INTERIM GROUNDWATER MONITORING REPORT
Revision 0

FLUID SERVICING ROAD AREA
SWMUs 037 and 102
KENNEDY SPACE CENTER, FLORIDA

Prepared for:



National Aeronautics and Space Administration
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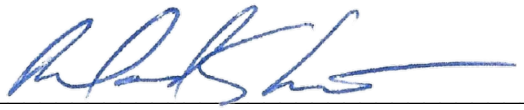
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CERTIFICATION AND APPROVAL

INTERIM GROUNDWATER MONITORING REPORT (REVISION 0)

FLUID SERVICING ROAD AREA
SWMUs 037 and 102
KENNEDY SPACE CENTER, FLORIDA

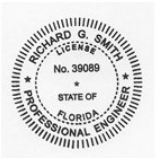
I hereby certify that in my professional judgment this document entitled: *Fluid Servicing Road Area SWMUs 037 and 102, Interim Groundwater Monitoring Report, Revision 0*, dated May 2024, satisfies the requirements set forth in Chapter 471, Florida Statues. I have completed and/or been in responsible charge of work completed by qualified professionals working directly under my supervision, and the applicable portions of this document and associated work comply with Chapter 62-780, Florida Administrative Code (FAC) and Rule 62-780.400(1), FAC.



May 7, 2024

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Date



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ABBREVIATIONS AND ACRONYMS

ft	feet/foot
µg/L	micrograms per liter
516S	Area South of K7-516
AS	air sparging
bgs	below ground surface
CCB	Converter Compressor Building
CCF	Components Cleaning Facility
cDCE	cis-1,2-dichloroethene
COC	contaminant of concern
DO	dissolved oxygen
DPT	direct-push technology
EPA	U.S. Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
FDSA	Former Drum Storage Area
FSRA	Fluid Servicing Road Area
GCTL	groundwater cleanup target level
HCP	high-concentration plume
HGL	HydroGeoLogic, Inc.
IGWM	interim groundwater monitoring
IM	interim measure
KSC	Kennedy Space Center
KSCRT	Kennedy Space Center Remediation Team
LCP	low-concentration plume
M-K	Mann-Kendall
NADC	natural attenuation default concentration
NASA	National Aeronautics and Space Administration
OMMR	Operations, Maintenance, and Monitoring Report

PSBA	Propellants Support Building Area
RCRA	Resource Conservation and Recovery Act
SAP	Sampling and Analysis Plan
SGS	SGS North America Inc.
SWMU	Solid Waste Management Unit
TCE	trichloroethene
tDCE	trans-1,2-dichloroethene
VC	vinyl chloride
VOC	volatile organic compound

EXECUTIVE SUMMARY

This Interim Groundwater Monitoring (IGWM) Report presents the findings of the IGWM activities conducted during the 2022-2023 reporting period at the Fluid Servicing Road Area (FSRA) of Kennedy Space Center, Florida. The IGWM program was implemented at sites where active remediation was not occurring to monitor and track plume footprints and concentrations. FSRA is located east of the Vehicle Assembly Building and includes the Components Cleaning Facility (CCF) also known as Solid Waste Management Unit (SWMU) 030; the Converter Compressor Building (CCB) also known as SWMU 089; the Area South of K7-516 (516S) also known as SWMU 100; the Propellants Support Building Area (PSBA) also known as SWMU 102; and the Former Drum Storage Area (FDSA) also known as SWMU 037. Within FSRA, there were approximately 50 acres of low-concentration plumes (LCPs), 15 acres of high concentration plumes (HCPs), and 2.5 acres of hot spots. The FDSA site was added to the FSRA IGWM program in 2019 after active remediation was discontinued in May 2018. LCPs, HCPs, and hot spots at the FSRA will be addressed through remedial actions, and active remediation is already in progress in a few plume areas. Currently, air sparging (AS) systems are operating at 516S; the AS system and electrical resistance heating Interim Measure was taken offline at CCB; an AS system design was completed at CCF East; and the AS system at CCF West, which operated from 2017 to 2021, also was taken offline. The sites currently in the FSRA IGWM Program that are summarized in this report are PSBA and FDSA.

The 12th annual IGWM sampling event for PSBA was performed during December 2022 and included sampling of eight monitoring wells. All samples were collected using a peristaltic pump and analyzed for volatile organic compounds (VOCs). The contaminants of concern (COCs) at PSBA include trichloroethene (TCE), cis-1,2-dichloroethene (cDCE), and vinyl chloride (VC). VC was the only COC detected in monitoring wells at concentrations exceeding the groundwater cleanup target level (GCTL). VC concentrations in 7 of the 8 monitoring wells sampled exceeded the GCTL. None of the monitoring well sample concentrations exceeded the natural attenuation default concentration (NADC). One monitoring well (MW0019) was unable to be accessed due to safety concerns (alligator present within the vicinity of the well).

The final phase of the supplemental direct-push technology (DPT) groundwater sampling was conducted in April and July 2023 to define the extent of the plumes at PSBA. This included the collection of 107 groundwater samples from 30 boring locations for a total of 310 samples from 77 locations from March 2022 through July 2023. VC, cDCE, and TCE were detected above the GCTL, and results exceeding the VC NADC also were detected. TCE concentrations exceeded the GCTL in 3 of the 107 samples. VC exceeded the GCTL in 41 samples. Concentrations exceeding the NADC and 10 times the NADC were not detected in any of the DPT samples collected.

In the PSBA north and east/west areas, VC concentrations were generally stable in both the 30- to 40-foot (ft) and the 40- to 50-ft intervals. No changes to the IGWM program are recommended for this area. The high and low concentration plumes have migrated downgradient. The western edge of the plume is in an inaccessible low-lying area; DPT results did not completely delineate the western boundary. COC concentrations in the monitoring wells increased along the western edge of the east/west plume in the 40- to 50-ft depth interval in 2019, which exceeded the NADC. Since

the January 2021 sampling event, concentrations decreased and continue to remain below the NADC but above the GCTL.

It is recommended that the PSBA monitoring program continue in accordance with the June 2011 IGWM Work Plan, as modified by the approved Kennedy Space Center Remediation Team (KSCRT) recommendations. Additionally, a Remedial Alternatives Evaluation is recommended due to the NADC plumes confirmed by the supplemental DPT investigation. The 13th annual IGWM sampling event at PSBA is scheduled for December 2023, which will include 22 annual wells in the PSBA north and east/west areas.

At FDSA, one annual sampling event was performed in December 2022, which consisted of sample collection from 27 monitoring wells (including the one semiannual monitoring well) for VOCs. Semiannual sampling was performed in December 2022 and June 2023 at one monitoring well (MW0061). During the annual sampling event, monitoring well MW0059 reported a TCE concentration of 555 micrograms per liter (ug/L), which exceeded the NADC. Based on the significant concentration increase, the monitoring well was resampled in January 2023 and the TCE concentration was 737 ug/L. Additional investigation in the vicinity of this well is recommended. The COCs at FDSA continue to be TCE, cDCE, trans-1,2- dichloroethene, and VC.

VOC concentrations in the 0- to 10-ft depth interval were stable/decreasing, the 10- to 20-ft interval ranged from decreasing to increasing, and the 20- to 30-ft and 40- to 50-ft intervals showed increasing trends. VOC concentrations in the 10- to 20-ft and 20- to 30-ft intervals have been slightly increasing since the prior annual sampling event in December 2022, and cDCE concentrations have increased in the 40- to 50-ft interval, while TCE concentrations have decreased, suggesting that reductive dechlorination is occurring.

It is recommended that the FDSA monitoring program continue without any changes to the sampling network. The recommendations were presented at the November 2023 KSCRT meeting, and team consensus was reached. The 13th annual IGWM sampling event is scheduled for December 2023. The semiannual events will be conducted in December 2023 and June 2024.

1.0 INTRODUCTION

This Interim Groundwater Monitoring (IGWM) Report presents the findings from the IGWM events, completed between December 2022 and June 2023, at the Fluid Servicing Road Area (FSRA), Kennedy Space Center (KSC), Florida. KSC is located on the northern portion of Merritt Island, between the Indian and Banana Rivers in Brevard County, Florida. The IGWM program is implemented at sites where active remediation is not occurring. The IGWM events at the Propellants Support Building Area (PSBA; Solid Waste Management Unit [SWMU] 102) included the collection of eight groundwater monitoring well samples and 107 direct-push technology (DPT) samples. The DPT samples were collected for the Five-Year supplemental plume monitoring event. Additionally, 27 wells were sampled as part of the December 2022 IGWM event at the Former Drum Storage Area (FDSA), SWMU 037. This IGWM Report was prepared by HydroGeoLogic, Inc. (HGL) for the National Aeronautics and Space Administration (NASA) under Task Order 4 of Indefinite Delivery Indefinite Quantity Contract 80KSC019D0012/80KSC019F0090.

1.1 FACILITY LOCATIONS

FSRA consists of approximately 150 acres located about 1 mile east of the Vehicle Assembly Building Area along Crawler Way on Merritt Island, Brevard County, Florida. The locations of FDSA and PSBA and the associated FSRA SWMU sites are presented on **Figure 1.1**.

1.2 BACKGROUND

FSRA includes the Components Cleaning Facility (CCF), SWMU 030; Converter Compressor Building (CCB), SWMU 089, Area South of K7-0516 (516S), SWMU 100; PSBA, SWMU 102; and FDSA, SWMU 037 (**Figure 1.1**). Consensus was reached by the Kennedy Space Center Remediation Team (KSCRT) at the December 2010 meeting to conduct IGWM at CCF, CCB, 516S, and PSBA under one project (Meeting Minute 1012-M8, Decision 1012-D13). The first and second annual IGWM events were conducted at CCF, CCB, 516S, and PSBA in November 2011 and December 2012, respectively, and samples were collected from 129 wells during both events. The third IGWM event included 85 wells and was conducted in December 2013 at CCF, 516S, and PSBA; CCB was not sampled because active remediation at that site began in December 2013. The fourth and fifth IGWM events were conducted in December 2014 and December 2015, respectively, at CCF and PSBA and included 63 wells during both events; 516S was not sampled because active remediation began in August 2014 at the site. The sixth IGWM event was conducted in December 2016 at CCF and PSBA and included 44 wells. In March 2017, a supplementary DPT groundwater sampling event was conducted at PSBA to refine the plume footprint at the site. The seventh IGWM event was conducted in December 2017 at CCF and PSBA and included 40 wells. Four newly installed monitoring wells at PSBA were sampled in February 2018, and the results also are considered part of the seventh IGWM event. The eighth monitoring event was conducted in October 2018 at PSBA and included 19 wells, which did not include six wells that are sampled biennially. The ninth monitoring event was conducted in December 2019 at PSBA and included annual sampling of 8 wells and biennial sampling of 14 wells. During this event, FDSA was added to the FSRA IGWM program after active remediation was discontinued in May 2018. The 2019-2020 FDSA IGWM program consisted of quarterly sampling of 3 wells, annual sampling of 33 wells, biennial sampling of 11 wells, and a DPT groundwater supplemental investigation to verify

the effectiveness of the air sparging (AS) system. The 10th monitoring event conducted in 2020-2021 included collecting groundwater samples from eight annual monitoring wells and five DPT locations at PSBA, and quarterly sampling of three wells and one newly installed well, surface water sampling, and annual sampling of 27 wells at FDSA.

The 11th monitoring event was conducted at PSBA and included sampling of 22 biennial monitoring wells in November/December 2021 and a supplemental DPT groundwater sampling event in March and July 2022. The purpose of the DPT groundwater sampling event, which included 304 DPT groundwater samples collected from 71 boring locations, was to refine the plume footprint at the site. The FDSA December 2021 IGWM event included collecting groundwater samples from 43 biennial monitoring wells and one quarterly monitoring well in October 2021, December 2021, March 2022, and June 2022.

At FSRA, low-concentration plumes (LCPs) are defined as areas of groundwater with concentrations of contaminants of concern (COCs) greater than Florida Department of Environmental Protection (FDEP) groundwater cleanup target levels (GCTLs), and high-concentration plumes (HCPs) are defined as areas of groundwater with concentrations of COCs greater than FDEP natural attenuation default concentrations (NADCs). Hot spots are defined as areas of groundwater with concentrations of COCs greater than 10 times FDEP NADCs. Within FSRA, there are approximately 50 acres of LCPs, 15 acres of HCPs, and 2.5 acres of hot spots. LCPs, HCPs, and hot spots at FSRA will be addressed through remedial actions, with active remediation already in progress at 516S, CCB, and CCF. All CCB monitoring wells were removed from the FSRA IGWM program prior to the 2013 sampling event and are monitored as part of the CCB AS performance monitoring program (Meeting Minute 1305-M9, Decisions 1305-D21 and D22). All 516S monitoring wells, except 516S-MW0001, were removed from the FSRA IGWM program prior to the 2014 sampling event and are monitored as part of the performance monitoring program associated with the 516S Outstanding Florida Water and hot spot AS system. Monitoring well 516S-MW0001 remained in the FSRA IGWM program due to its location near the CCF fence line. After the seventh annual FSRA IGWM event, CCF was removed from the monitoring program, and monitoring wells 516S-MW0001 and CCF-IW0007ID were moved to the 516S IGWM program. The remaining CCF East and West wells were evaluated for inclusion in the CCF Interim Measure (IM) performance monitoring program and removed from the FSRA IGWM program. As discussed above, FDSA discontinued active remediation in May 2018 and was added to the FSRA IGWM program starting with the ninth event. The 9th, 10th, 11th, and 12th events consisted of monitoring LCPs and HCPs. FSRA features and the location of each site are presented on **Figure 1.1**.

1.3 PURPOSE

This IGWM Report presents the results of the 12th monitoring event conducted between April 2022, December 2022, and July 2023 at PSBA and FDSA, the FSRA sites where active remediation is not in progress, and includes recommendations for future sampling activities at these two sites. The purpose of IGWM is to monitor the concentrations and footprint stability of plumes PSBA North, PSBA East/West, and FDSA within the FSRA IGWM program. Analytical results from the 12th monitoring event supplement the existing groundwater monitoring database for evaluating groundwater quality in the plume areas. IGWM activities were performed in accordance with the June 2011 IGWM Work Plan (NASA, 2011) and recommendations in

previous IGWM reports (NASA, 2012; 2013a; 2014a; 2015a; 2016a; 2017b; 2018a; 2018b; 2021a; 2021b; 2022), including the recommendations to remove CCB, 516S, and CCF monitoring wells from the FSRA IGWM program.

1.4 REPORT ORGANIZATION

The remainder of this IGWM Report is organized as follows:

Section 2.0: *PSBA* – This section details the IGWM activities conducted at PSBA and presents recommendations for future activities.

Section 3.0: *FDSA* – This section details the IGWM activities conducted at FDSA and presents recommendations for future activities.

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2.0 PROPELLANTS SUPPORT BUILDING AREA

2.1 SITE BACKGROUND

PSBA, located along Fluid Servicing Road north of CCF and CCB (**Figure 1.1**), includes the Liquid Nitrogen Storage Area (K7-0314) and Ammonia Cylinders Storage Building (K7-0315). In 1967, K7-0314 was used for storage of drums that may have contained trichloroethene (TCE) and Freon. In 1996, K7-0314 was outfitted for storage and transfer of Halon and Freon R-21. K7-0314 is currently used for the storage and transfer of Halon, Freon R-21, liquid nitrogen, argon, ammonia, and ethylene glycol. The primary contaminants at PSBA are TCE and degradation daughter products (vinyl chloride [VC], cis-1,2-dichlorothene [cDCE], and trans-1,2-dichloroethene [tDCE]). No record of spills has been identified for the PSBA area, but it is assumed groundwater contamination at the site is a result of a release from a drum storing TCE. IGWM of PSBA began in November 2011, and in February 2012, the KSCRT reached consensus that delineation of the PSBA HCP and VC hot spot, located in the PSBA East/West area, was complete as presented in the Site Characterization Advanced Data Package, and that IGWM of the PSBA North and East/West plume areas should continue. Annual IGWM events have occurred at PSBA since 2011 with the number of wells sampled ranging from 8 to 22. Supplemental DPT sampling to refine the extent of the plumes at PSBA was conducted in March 2017, which resulted in the installation of four new wells at PSBA and plume footprint revisions. The 10th annual FSRA IGWM event was conducted in 2020/2021 and included the collection of DPT samples along the western edge of the plume based on increasing VC concentrations reported in the 2019 sampling event. The 12th annual FSRA IGWM event was conducted in December 2022 and included sampling of biennial frequency monitoring wells and supplemental DPT groundwater sampling conducted in March and July 2022 to refine the extent of the plumes at PSBA.

During the 12th annual FSRA IGWM event, continued monitoring of the LCPs, HCPs, and potential hot spots was conducted at PSBA North and PSBA East/West. PSBA features and the wells included in the 2022/2023 IGWM sampling event are listed in **Table 2.1** and presented on **Figure 2.1**. The final phase of the supplemental DPT groundwater sampling was conducted in April and July 2023 to refine the extent of the plumes at PSBA. The primary groundwater contaminants at PSBA continue to be TCE and TCE degradation products.

2.2 SAMPLE COLLECTION

The 12th annual IGWM sampling event was performed in December 2022. All samples were collected using a peristaltic pump in accordance with *FDEP Standard Operating Procedure FS2200* (FDEP, 2018) and the *NASA KSC Sampling and Analysis Plan (SAP) for the Resource Conservation and Recovery Act (RCRA) Program* (NASA, 2017a). Temperature, pH, conductivity, turbidity, dissolved oxygen (DO), and oxidation-reduction potential were measured and recorded in the field at each well during groundwater sampling events (**Appendix A**). Groundwater samples were collected from seven wells to monitor the PSBA East/West and North plumes. One annual monitoring well (MW0019) was unable to be sampled due to safety issues with wildlife near the well. The IGWM wells were selected primarily to monitor the stability of plumes at PSBA. After collection, groundwater samples were provided under proper chain-of-custody protocol to SGS North America Inc. (SGS) of Orlando, Florida, for analysis of COC

volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (EPA) Method 8260B.

The final phase of the supplemental DPT investigation was conducted from April 10 through April 14 and July 10 through July 11, 2023, to refine the extent of the plumes at PSBA. Groundwater samples were collected using a Geoprobe sampling system, with samples collected at the midpoint of the screen placed at each pre-determined interval. Upon reaching the correct depth, new sample tubing was inserted, and purging occurred until a representative sample was collected. At each DPT location, groundwater samples were collected at three to five depth intervals ranging from 5 feet (ft) below ground surface (bgs) to 55 ft bgs. New tubing was used for each new depth and sample location. The team collected 107 groundwater samples from 30 boring locations for a total of 310 samples from 77 locations during the entire supplemental DPT investigation. Samples were analyzed by an on-site mobile laboratory, Analytical Laboratories of Florida, Inc., of Cocoa, Florida, for VOCs via EPA Method 8260D.

The COCs at PSBA are TCE, cDCE, tDCE, and VC in all wells. **Table 2.1** lists the IGWM wells and indicates the plume each well is monitoring and the current sample frequency.

2.3 WATER LEVELS AND GROUNDWATER FLOW DIRECTION

A water level measurement event was performed on December 14, 2022, and water levels from this event were used to generate potentiometric surface maps for 30- to 40-ft and 40- to 50-ft depth intervals. Water level measurements are listed in **Table 2.2**, and potentiometric surface maps are presented as **Figure 2.2** and **Figure 2.3**. Groundwater elevation data recorded in December 2022 indicated a radial north flow away from the topographically higher center of the site in both the 30- to 40-ft and 40- to 50-ft groundwater elevations. Groundwater flowed east and west towards lower ground elevations. Prior to the December 2019 water level event, water levels had not been collected at PSBA since 2013 when it was determined that groundwater flow is influenced by surrounding surface water. The 2013 and previous water level events indicate that groundwater flow at FSRA is generally toward the south in all zones south of the Crawlerway, with areas of radial flow north of the Crawlerway near CCB and PSBA. FSRA is a relatively flat coastal area located between the Indian River to the west and the Atlantic Ocean to the east, and is characterized by a shallow water table. As a result of precipitation recharge, a regional groundwater divide likely forms between the Indian River and Atlantic Ocean groundwater discharge zones, and shallow groundwater flow is locally controlled by Banana Creek, which borders FSRA to the east, north, and west, and by the Turning Basin and associated Barge Canal that border 516S to the south.

2.4 LABORATORY ANALYTICAL RESULTS

The groundwater analytical results from the annual monitoring well sampling and the supplemental DPT investigation events are discussed below by depth interval. The plume areas presented on **Figure 2.4a, Figure 2.4b,** and **Figure 2.5** were defined based on current and historical data. Groundwater sampling notes maintained by the HGL field team during the 12th annual sampling event and supplemental DPT investigation are provided in **Appendix A**. Summaries of the groundwater monitoring well analytical results reported by the laboratory are presented in **Table 2.3**, and DPT laboratory results are presented in **Table 2.4**. **Figure 2.4a, Figure**

2.4b, and **Figure 2.5** summarize groundwater results by depth interval. The laboratory analytical data packages provided by the laboratory are included in **Appendix B.**

2.4.1 0 to 10 Feet Below Ground Surface

One DPT groundwater sample (DPT0342) was collected during the April/July 2023 sampling at a depth of 5 ft bgs. The sample result for all site COCs was below their respective GCTLs.

Current plumes, along with DPT groundwater analytical data for the sample collected from the 0- to 10-ft depth interval, are presented on **Figure 2.4b**. The laboratory analytical results from the DPT groundwater sample are summarized in **Table 2.4**.

2.4.2 10 to 20 Feet Below Ground Surface

Seven DPT samples were collected during the April/July 2023 DPT event at a depth of 15 ft bgs. VC was the only site COC detected above the GCTL and was detected in four (DPT0338, DPT0339, DPT0342, and DPT0355) of the seven samples collected. VC concentrations exceeding the GCTL ranged from 7 micrograms per liter (µg/L) to 36 µg/L.

Current plumes, along with DPT groundwater analytical data for samples collected from the 10- to 20-ft depth interval, are presented on **Figure 2.4a** and **Figure 2.4b**. The laboratory analytical results from the DPT groundwater samples are summarized in **Table 2.4.**

2.4.3 20 to 30 Feet Below Ground Surface

Fourteen DPT samples were collected during the April/July 2023 DPT event at a depth of 25 ft bgs. VC was the only site COC detected above the GCTL and was detected in 6 (DPT0338, DPT0339, DPT0341, DPT0342, DPT0355, and DPT0365) of the 30 samples collected. VC concentrations exceeding the GCTL ranged from 2 µg/L to 37 µg/L.

Current plumes, along with DPT groundwater analytical data for samples collected from the 20- to 30-ft depth interval, are presented on **Figure 2.4a** and **Figure 2.4b**. The laboratory analytical results from the DPT groundwater samples are summarized in **Table 2.4**.

2.4.4 30 to 40 Feet Below Ground Surface

One monitoring well screened in the 30- to 40-ft interval was sampled as part of the 12th annual IGWM event. VC was the only site COC that exceeded GCTLs. The VC concentration at MW0005 was 6.9 µg/L. MW0019 was unable to be sampled due to safety issues with wildlife at the well.

A total of 30 DPT groundwater samples was collected at a depth of 35 ft bgs. TCE and VC were detected above their cleanup target levels. Fifteen of the 30 samples reported concentrations above GCTLs. TCE concentrations ranged from 8 µg/L to 48 µg/L, and VC concentrations ranged from 2 µg/L to 80 µg/L. One of the 30 samples had VC concentrations exceeding the NADC; DPT0341 had a VC concentration of 570 µg/L.

Current plumes, along with monitoring well groundwater analytical data for samples collected from the 30- to 40-ft depth interval, are presented on **Figure 2.5**. DPT groundwater results are

presented on **Figure 2.4a** and **Figure 2.4b**. The laboratory analytical results from monitoring wells are summarized in **Table 2.3**, and DPT groundwater analytical results is summarized in **Table 2.4**.

2.4.5 40 to 50 Feet Below Ground Surface

Six monitoring wells screened in the 40- to 50-ft interval were sampled as part of the 12th annual IGWM event. VC was the only site COC exceeding the GCTL in the monitoring well samples collected. VC concentrations exceeding the GCTL ranged from 2.3 µg/L (MW0034) to 14 µg/L (MW0036).

A total of 30 DPT groundwater samples were collected at a depth of 45 ft bgs. VC was the only site COC detected above the cleanup target level. Sixteen of the 30 samples collected reported concentrations above the GCTL ranging from 2 µg/L to 86 µg/L (DPT0366), and 6 of the 30 samples reported concentrations above the NADC ranging from 110 µg/L (DPT0340) to 570 µg/L (DPT0341).

Current plumes, along with monitoring well groundwater analytical data for samples collected from the 40- to 50-ft depth interval, are presented on **Figure 2.6**. DPT groundwater results are presented on **Figure 2.4a** and **Figure 2.4b.** The laboratory analytical results from monitoring wells are summarized in **Table 2.3**, and DPT groundwater analytical results are summarized in **Table 2.4**.

2.4.6 50 to 60 Feet Below Ground Surface

There were no monitoring wells sampled in the 50- to 60-ft bgs screened interval during the 12th annual IGWM event. Twenty-four DPT samples were collected at a depth of 55 ft bgs. VC was the only site COC detected above GCTLs. Two of the 24 samples collected reported concentrations above the GCTL: DPT0353 at 65 µg/L, and DPT0348 at 84 µg/L.

DPT groundwater analytical data for samples collected from the 50- to 60-ft depth interval are presented on **Figure 2.4a** and **Figure 2.4b**. The laboratory analytical results from DPT groundwater analytical data are summarized in **Table 2.4**.

2.5 GROUNDWATER CONCENTRATION TREND ANALYSIS

A Mann-Kendall (M-K) trend analysis was conducted for each analyte at a given well detected at a concentration greater than the GCTL. The entire period of record for the given well was analyzed. Half of the reporting limit was used as a proxy concentration for nondetect results. An M-K analysis was not performed for wells with three or fewer data points. Accordingly, an M-K analysis was performed on the following wells and analytes:

Monitoring Wells with Sample Depths at 30 to 40 ft bls:

- MW0005: VC

Monitoring Wells with Sample Depths at 40 to 50 ft bls:

- MW0031, MW0034, MW0035, MW0036, and MW0037: VC

The M-K trend analyses and graphs are provided in **Appendix C** and are summarized in **Table 2.5**. The results are discussed below.

- VC:
    - The M-K analysis identified a stable trend for MW0031 and MW0036.
    - Increasing trend at MW0035 and probably increasing at MW0037.
    - No trend was identified for MW0005 and MW0034, and a stable trend was identified at MW0031. When only the last six sampling events are evaluated, the M-K analysis identified decreasing trends for MW0005 and MW0031, which is supported by recent detections. There were no changes to the trend at MW0034 or the other wells when evaluating only the last six events.

2.6 CONCLUSIONS AND RECOMMENDATIONS

For annual monitoring well sampling in the PSBA North and East/West areas, VC concentrations appear to be generally stable. The DPT plume assessment indicated that the LCPs and HCPs have migrated west/southwest.

It is recommended that the monitoring program continue in accordance with the June 2011 IGWM Work Plan with the following modification:

- Conduct a Remedial Alternative Evaluation to select the most appropriate IM for the site.

It is recommended that sampling at PSBA continue with samples analyzed for site COCs (TCE, cDCE, tDCE, and VC) on an annual and biennial basis (**Table 2.6**). These recommendations were presented at the November 2023 KSCRT meeting, and team consensus was reached. The Advance Data Package presented during the November 2023 KSCRT meeting and meeting minutes are included in **Appendix D**. The 13th annual IGWM sampling event at PSBA is scheduled for December 2023 and will include sampling 22 (8 annual wells and 14 biennial wells) monitoring wells and collecting water level measurements from 37 wells in the PSBA North and East/West areas.

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3.0 FORMER DRUM STORAGE AREA

3.1 SITE BACKGROUND

FDSA encompasses approximately 6 acres in the northeastern portion of the turnaround loop of Fluid Servicing Road and consists of the Building J7-2112A area (**Figure 1.1**). From 1988 through 1994, approximately 100 drums were stored at FDSA, and three tankers with unknown contents were parked in the southern surface water retention area. The drums were stored primarily on a concrete pad in the northern portion of the site but also at multiple locations across the site. The contents of the drums were reported as asbestos materials, solidified paint and debris, adhesives, petroleum-contaminated soils and absorbents, aerosol cans, photo developer solutions, wastewater, latex paints, hydrazine-contaminated materials (hoses) contained in dilute citric acid solutions, nitrogen tetroxide-contaminated materials contained in dilute ammonium hydroxide solutions, glycol-based coolants, polyol resin foam components, polymeric isocyanate foam components, polychlorinated biphenyl and non-polychlorinated biphenyl lighting ballasts, and fluorinated oils. No record of spills was identified for the FDSA area.

Based on the results of site investigations to date, three co-mingled chlorinated VOC plumes were delineated at FDSA. The COCs are TCE, cDCE, tDCE, and VC. An Implementation Work Plan was submitted in November 2013 (NASA, 2013b) and approved by FDEP on November 22, 2013. The IM consisted of an AS system with a total of 137 sparging wells at depths ranging from approximately 25 to 50 ft bgs and separated into seven treatment groupings or manifold zones. Compressed air for the sparging was supplied from two compressors installed for the AS IM at the CCB (SWMU 089). The former AS system layout is shown on **Figure 3.1**. FDSA discontinued active remediation in May 2018 and was added to the FSRA IGWM program starting with the 9th event. The 9th, 10th, 11th, and 12th events consisted of monitoring LCPs, HCPs, and hot spots.

Pre-operation baseline groundwater sampling was conducted in May 2014, and system startup testing was conducted from May 29 to June 20, 2014. Full-scale operations began in June 2014 to March 2016 for treatment zones S1, S2, SI1, SI2, I1, and I2. Operation of the D1 treatment zone continued until May 2018 when the compressor trailer was moved to Launch Complex 34 (SWMU C054) for the newly installed AS system at that site. Detailed information about system startup and initial operations and maintenance activities was provided in the September 2014 Construction Completion Report (NASA, 2014b). Years 1, 2, 3, and 4 operation, maintenance, and monitoring activities were provided in the Year 1 Operations, Maintenance, and Monitoring Report (OMMR) (NASA, 2015b), Year 2 OMMR (NASA, 2016b), Year 3 OMMR (NASA, 2017c), and Year 4 OMMR (NASA, 2018c), respectively.

3.2 SAMPLE COLLECTION

The 12th annual sampling event was conducted in December 2022, which included the sampling of 27 monitoring wells. Semiannual groundwater sampling was conducted at one well (MW0061) in December 2022 and June 2023. Some of the samples collected during the initial December 2022 sampling were received by the laboratory with air bubbles in sample vials (headspace). The headspace can make samples invalid for analysis and resulted in resampling of MW0038, MW0039, MW0045, MW0048, MW0051, and MW0061.

All groundwater samples from monitoring wells were collected using a peristaltic pump in accordance with *FDEP Standard Operating Procedure FS2200* (FDEP, 2018) and the *NASA KSC SAP for the RCRA Program* (NASA, 2017a). Temperature, pH, conductivity, turbidity, DO, and oxidation-reduction potential were measured and recorded in the field at each well location during groundwater sampling events (**Appendix A)**. After collection, groundwater samples from monitoring wells were provided under proper chain-of-custody protocol to SGS of Orlando, Florida, for analysis of VOCs by EPA Method 8260B.

The COCs at FDSA are TCE, cDCE, tDCE, and VC in all wells. **Table 3.1** lists the IGWM wells and the current sample frequency. Wells included in the 2022-2023 IGWM sampling events are presented on **Figure 3.2**.

3.3 WATER LEVELS AND GROUNDWATER FLOW DIRECTIONS

Water level measurements were collected from FDSA on December 6, 2022, and are listed in **Table 3.2.** Prior to the 2019 water level measurement, water levels had not been collected at FDSA since 2011 when it was determined that groundwater flow at FDSA is impacted by surrounding surface water and drainage ditches. Water levels from the November 2022 event were used to generate a potentiometric surface map for the 0- to 20-ft and 20- to 40-ft intervals. As presented on **Figure 3.3a** and **Figure 3.3b**, groundwater flow in these intervals is interpreted to be towards the north-northeast. Water level data in the deeper intervals were inconclusive, and the groundwater flow direction could not be determined. Historically, groundwater flow direction has been interpreted as being generally towards the east in the deeper intervals. Groundwater elevation data for the deeper zone is presented on **Figure 3.3c**.

3.4 LABORATORY ANALYTICAL RESULTS

The groundwater analytical results from the quarterly and biennial groundwater sampling events are discussed below by depth interval. Field sampling sheets are provided in **Appendix A**, and laboratory analytical reports are provided in **Appendix B**.

3.4.1 0 to 10 Feet Below Ground Surface

One semiannual monitoring well (MW0061) was sampled in December 2022 and June 2023. Four monitoring wells were sampled during the annual sampling event in December 2022, which included the one semiannual well. These monitoring wells were screened in the 0- to 10-ft interval. During the sampling events, TCE was the only site COC with concentrations detected above the GCTL. TCE was detected in the semiannual well above the GCTL of 3 µg/L in December 2022 (5.8 µg/L) and June 2023 (5.9 µg/L). TCE also was detected in two annual monitoring wells: MW14S2 at a concentration of 4.7 µg/L and MW15S2 at a concentration of 12.2 µg/L. The results were below the NADC. Groundwater analytical data for samples collected from the 0- to 10-ft depth interval are presented on **Figure 3.4**. The laboratory analytical results from monitoring wells are summarized in **Table 3.3**.

3.4.2 10 to 20 Feet Below Ground Surface

A total of 11 monitoring wells screened in the 10- to 20-ft interval were sampled as part of the December 2022 IGWM event. TCE was detected at concentrations above the GCTL in six

monitoring well samples with concentrations ranging from 3.7 µg/L (MW0052) to 555 µg/L (MW0059). cDCE was detected above the GCTL at MW0059 during the December 2022 sampling event at a concentration of 198 µg/L, which increased from 21 µg/L in the December 2021 sample. tDCE and VC concentrations were below their respective GCTLs.

The TCE concentration in monitoring well MW0059 increased from 3.1 µg/L in December 2021 to 555 µg/L in December 2022. Based on the significant concentration increase, the monitoring well was resampled in January 2023. The results of the January 2023 sample reported a TCE NADC exceedance of 737 µg/L, cDCE GCTL exceedance of 250 µg/L, and all other COCs below their GCTL.

Groundwater analytical data for samples collected from the 10- to 20-ft depth interval are presented on **Figure 3.5.** The laboratory analytical results from monitoring wells are summarized in **Table 3.3.**

3.4.3 20 to 30 Feet Below Ground Surface

Eight monitoring wells screened in the 20- to 30-ft interval were sampled as part of the December 2022 IGWM event. TCE was detected at concentrations above the GCTL in four monitoring well samples with concentrations ranging from 5.3 µg/L (MW0045) to 8.7 µg/L (MW0050). No other site COC concentrations above GCTLs were detected.

Groundwater analytical data for samples collected from the 20- to 30-ft depth interval are presented on **Figure 3.6**. The laboratory analytical results from monitoring wells are summarized in **Table 3.3.**

3.4.4 40 to 50 Feet Below Ground Surface

Five monitoring wells screened in the 40- to 50-ft interval were sampled as part of the December 2022 IGWM event. cDCE was detected above the GCTL at one monitoring well (MW17D1) at a concentration of 113 µg/L. All other site COC results were below their respective GCTLs.

Analytical data for samples collected from the 40- to 50-ft depth interval are presented on **Figure 3.7**. The laboratory analytical results from monitoring wells are summarized in **Table 3.3.**

3.5 GROUNDWATER CONCENTRATION TREND ANALYSIS

An M-K trend analysis was conducted for each analyte at a given well detected at a concentration greater than the GCTL. The entire period of record for the given well was analyzed. Half of the reporting limit was used as a proxy concentration for nondetect results. An M-K analysis was not performed for wells with three or fewer data points. Accordingly, an M-K analysis was performed on the following wells and analytes:

Monitoring Wells with Sample Depths at 0 to 10 ft bls:

- MW14S2, MW15S2, MW16S2, MW0061: TCE

Monitoring Wells with Sample Depths at 10 to 20 ft bls:

- MW025S, MW027S, MW0029, MW0047, MW0048, MW0052, MW0059: TCE
- MW0059: cDCE
- MW03S2: VC

Monitoring Wells with Sample Depths at 20 to 30 ft bls:

- MW0033, MW0044, MW0045, MW0050: TCE

Monitoring Wells with Sample Depths at 40 to 50 ft bls:

- MW17D1: cDCE

The M-K trend analyses and graphs are provided in **Appendix C** and are summarized in **Table 3.4**. The results are discussed below.

- TCE:
    - The M-K analysis identified a stable trend for MW0061.
    - Probably decreasing trend for MW0027S and decreasing trend for MW0033.
    - Increasing trend for MW0025S and MW0050.
    - Probably increasing trend for MW0047 and MW0045.
    - No trend was identified for MW14S2, MW15S2, MW16S2, MW0029, MW0048, MW0052, MW0059, and MW0044.
    - When only the last six sampling events are evaluated, the M-K analysis identified:
        - Stable trend for MW14S2, MW16S2, MW0044, MW0048, and MW0052.
        - Probably decreasing trend for MW15S2.
        - Decreasing trend for MW0045.
        - Increasing trend for MW0033 (slightly above GCTL) and MW0059.
- cDCE:
    - The M-K analysis identified a decreasing trend for MW17D1 and increasing trend for MW0059.
    - When only the last six sampling events are evaluated, the M-K analysis identified an increasing trend for MW17D1.
- VC:
    - The M-K analysis identified no trend for MW03S2.

3.6 CONCLUSIONS AND RECOMMENDATIONS

Prior to the December 2022 annual sampling event, groundwater analytical results have remained below the NADC since the AS system was shut down in 2016/2018. During the annual sampling

event, monitoring well MW0059 reported a TCE NADC concentration of 555 µg/L. Based on the significant concentration increase, the monitoring well was resampled in January 2023 and the results confirmed the TCE NADC exceedance. Following the results of the December 2023 biennial sampling event, one soil core will be collected near the monitoring well for lithologic characterization. Following the evaluation of the soil core, up to 5 days of groundwater sampling will be conducted using DPT groundwater sampling. Sample intervals will be selected based on evaluation of the subsurface geology. The proposed DPT locations will be presented during one of the 2024 KSCRT meetings.

VOC concentrations:

- 0- to 10-ft depth interval - TCE was the only analyte detected. MW14S2 and MW15S2 did report increased TCE concentrations. The M-K trend analysis showed concentrations are stable or decreasing.
- 10- to 20-ft depth interval - TCE and cDCE were the only analytes detected. A slight increase in TCE concentrations was observed in three monitoring wells (MW025S, MW027S, and MW0029), and a significant increase of TCE and cDCE concentrations was observed at MW0059. The M-K trend analysis ranged from decreasing to increasing.
- 20- to 30-ft depth interval - TCE was the only analyte detected. A slight increase in TCE concentrations was observed in two monitoring wells (MW0033 and MW0050). The M-K analysis showed concentrations are generally increasing.
- 40- to 50-ft depth interval - All COC concentrations were below GCTLs with the exception of cDCE at MW17D1. TCE concentrations in this well have decreased while cDCE concentrations have increased, suggesting that reductive dechlorination is occurring. The M-K trend analysis showed cDCE concentrations are increasing.

An illustration of the current data results for the overall plume is presented on **Figure 3.8**.

In summary, it is recommended that the monitoring program continue in accordance with the June 2011 IGWM Work Plan without modification.

Table 3.5 summarizes the 2023-2024 sampling plan recommended for each well at FDSA. The recommendations were presented at the November 2023 KSCRT meeting, and team consensus was reached. The Advance Data Package presented during the November 2023 KSCRT meeting and meeting minutes are included in **Appendix D**. The biennial IGWM sampling event was conducted in December 2023, and the annual event is scheduled for December 2024. The semiannual events will be conducted in June 2024, December 2024, and June 2025.

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4.0 REFERENCES

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NASA, 2021b. Fluid Servicing Road Area, SWMUs 037 and 102, Interim Groundwater Monitoring Report. Kennedy Space Center, Florida. December.

NASA, 2022. Fluid Servicing Road Area, SWMUs 037 and 102, Interim Groundwater Monitoring Report. Kennedy Space Center, Florida. October.

TABLES

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Table 2.1
2022 - 2023 Interim Groundwater Monitoring Wells
PSBA (SWMU 102)

Well ID	Plume	Sampling Frequency
PSBA-MW0005 [30-40]	East-West	Annual
PSBA-MW0006 [40-50]	East-West	Biennial
PSBA-MW0007 [40-50]	East-West	Biennial
PSBA-MW0009 [40-50]	East-West	Biennial
PSBA-MW0010 [40-50]	East-West	Biennial
PSBA-MW0012 [10-20]	East-West	Biennial
PSBA-MW0014 [30-40]	East-West	Biennial
PSBA-MW0015 [40-50]	East-West	Annual
PSBA-MW0019 [30-40]	East-West	Annual
PSBA-MW0020 [40-50]	East-West	Biennial
PSBA-MW0024 [40-50]	North	Biennial
PSBA-MW0025 [40-50]	North	Biennial
PSBA-MW0026 [30-40]	East-West	Biennial
PSBA-MW0027 [40-50]	East-West	Biennial
PSBA-MW0028 [30-40]	East-West	Biennial
PSBA-MW0029 [30-40]	East-West	Biennial
PSBA-MW0030 [30-40]	East-West	Biennial
PSBA-MW0031 [40-50]	East-West	Annual
PSBA-MW0034 [40-50]	North	Annual
PSBA-MW0035 [40-50]	East-West	Annual
PSBA-MW0036 [40-50]	East-West	Annual
PSBA-MW0037 [40-50]	East-West	Annual

Notes:

PSBA = Propellants Support Building Area

SWMU = solid waste management unit

Table 2.2
PSBA Water Level Measurements and Groundwater Elevations
PSBA (SWMU 102)

Well ID	Screened Interval	Ground Surface Elevation (feet above msl)	T.O.C. Elevation (feet above msl)	December 14, 2022	
				Depth to Water (feet below T.O.C.)	Groundwater Elevation (feet above msl)
PSBA-MW0001	62-72	6.30	6.46	3.25	3.21
PSBA-MW0002	62-72	5.80	9.54	5.86	3.68
PSBA-MW0003	62-72	5.80	5.99	3.09	2.90
PSBA-MW0004	30-40	1.90	4.85	2.84	2.01
PSBA-MW0005	30-40	2.20	5.22	3.07	2.15
PSBA-MW0006	40-50	4.00	7.18	4.16	3.02
PSBA-MW0007	40-50	5.00	8.15	4.71	3.44
PSBA-MW0008	30-40	4.60	7.74	4.19	3.55
PSBA-MW0009	40-50	6.40	6.53	2.95	3.58
PSBA-MW0010	40-50	6.10	6.29	2.47	3.82
PSBA-MW0011	50-60	5.70	5.83	2.99	2.84
PSBA-MW0012	10-20	5.20	8.70	5.57	3.13
PSBA-MW0013	20-30	5.20	8.76	5.65	3.11
PSBA-MW0014	30-40	5.70	8.92	5.87	3.05
PSBA-MW0015	40-50	6.30	9.63	6.68	2.95
PSBA-MW0016	40-50	4.10	7.51	4.59	2.92
PSBA-MW0017	10-20	6.10	9.41	5.67	3.74
PSBA-MW0018	40-50	6.60	9.76	6.08	3.68
PSBA-MW0019	30-40	0.85	3.85	NM	NM
PSBA-MW0020	40-50	1.76	4.88	2.91	1.97
PSBA-MW0021	40-50	6.89	10.11	6.71	3.40
PSBA-MW0022	40-50	6.69	9.71	6.30	3.41
PSBA-MW0023	50-60	6.62	9.66	6.23	3.43
PSBA-MW0024	40-50	6.15	9.34	5.97	3.37
PSBA-MW0025	40-50	5.75	8.76	5.36	3.40
PSBA-MW0026	30-40	3.78	6.55	3.36	3.19
PSBA-MW0027	40-50	5.64	8.74	5.91	2.83
PSBA-MW0028	30-40	4.59	7.73	4.98	2.75
PSBA-MW0029	30-40	5.61	8.46	5.99	2.47
PSBA-MW0030	30-40	5.02	8.35	6.02	2.33
PSBA-MW0031	40-50	5.51	7.95	5.61	2.34
PSBA-MW0032	30-40	5.26	8.10	5.79	2.31
PSBA-MW0033	40-50	5.07	7.81	5.10	2.71
PSBA-MW0034	40-50	NA	5.93	2.51	3.42
PSBA-MW0035	40-50	NA	8.51	5.86	2.65
PSBA-MW0036	40-50	NA	6.08	3.70	2.38
PSBA-MW0037	40-50	NA	7.73	5.06	2.67

Notes:

T.O.C. = top of casing

msl = mean sea level

NA = not available

NM = not measured

PSBA = Propellants Support Building Area

SWMU = solid waste management unit

Table 2.3
Groundwater Results for TCE, cDCE, tDCE, and VC
PSBA (SWMU 102)

Well/ Screened Interval	Sample Date	TCE	cDCE	tDCE	VC
PSBA-MW0005 [30-40]	04/13/2010	50 U	**4500**	44 U	50 U
	10/25/2010	5 U	**4200**	4.4 U	5 U
	11/20/2011	0.5 U	**3100**	**0.63 I**	0.5 U
	12/04/2012	5 U	**3800**	5 U	**180**
	12/02/2013	2 U	**3400**	2 U	**300**
	12/08/2014	10 U	**1600**	10 U	**1300**
	12/02/2015	10 U	**180**	10 U	**2200**
	01/03/2017	5 U	5 U	5 U	**2400**
	12/21/2017	5 U	5 U	5 U	**1500**
	10/04/2018	1 U	1 U	1 U	**610**
	12/02/2019	0.61 U	0.32 U	0.39 U	**190**
	01/06/2021	1 U	1 U	1 U	**83**
	11/30/2021	1 U	1 U	1 U	**33**
	12/12/2022	0.50 U	0.50 U	0.50 U	**6.9**
PSBA-MW0006 [40-50]	04/13/2010	5 U	**2000**	4.4 U	5 U
	11/11/2010	1 U	**2200**	**3.2**	**6.8**
	11/20/2011	0.5 U	**960**	0.44 U	**2.4**
	12/04/2012	5 U	**740**	5 U	5 U
	12/02/2013	1 U	**370**	1 U	1 U
	12/08/2014	1 U	**130**	1 U	1 U
	12/02/2015	1 U	**46**	1 U	**46**
	01/03/2017	3 U	3 U	3 U	**230**
	12/21/2017	1 U	1 U	1 U	**69**
	10/04/2018	1 U	1 U	1 U	**6**
	12/02/2019	0.61 U	0.32 U	0.39 U	**13**
	11/30/2021	1 U	1 U	1 U	**0.93 J**
PSBA-MW0007 [40-50]	04/13/2010	5 U	6.5 U	4.4 U	**990**
	10/25/2010	0.5 U	0.65 U	0.44 U	**870**
	11/20/2011	0.5 U	**2.2**	0.44 U	**540**
	12/04/2012	1 U	1 U	1 U	**380**
	12/02/2013	1 U	**2**	1 U	**290**
	12/08/2014	1 U	1 U	1 U	**89**
	12/02/2015	1 U	1 U	1 U	**3**
	01/03/2017	1 U	1 U	1 U	**16**
	12/21/2017	1 U	1 U	1 U	**2**
	12/02/2019	0.61 U	**0.66 J**	0.39 U	**1.1**
	11/30/2021	1 U	1 U	1 U	**0.63 J**
PSBA-MW0009 [40-50]	04/13/2010	0.5 U	**4.9**	0.44 U	**230**
	11/10/2010	0.5 U	**9.2**	**0.61 I**	**240 J3**
	11/21/2011	0.5 U	**6.7**	0.44 U	**140 Q**
	03/07/2012	1 U	**8.2**	1 U	**160**
	12/04/2012	1 U	**8**	1 U	**190**
	12/02/2013	1 U	**8**	1 U	**120**
	12/08/2014	1 U	**3**	1 U	**53**
	12/02/2015	1 U	**2**	1 U	**8**
	12/30/2016	1 U	1 U	1 U	**4**
	12/21/2017	1 U	1 U	1 U	**6**
	12/02/2019	0.61 U	**0.47 J**	0.39 U	**1.3**
	12/01/2021	1 U	1 U	1 U	**2.3**

Table 2.3
Groundwater Results for TCE, cDCE, tDCE, and VC
PSBA (SWMU 102)

Well/ Screened Interval	Sample Date	TCE	cDCE	tDCE	VC
PSBA-MW0010 [40-50]	04/13/2010	0.5 U	**2**	0.44 U	**140**
	11/21/2011	0.5 U	**1.4**	0.44 U	**27**
	12/04/2012	**1**	**3**	1 U	**17**
	12/02/2013	1 U	**3**	1 U	**10**
	12/08/2014	1 U	**1**	1 U	**2**
	12/02/2015	1 U	**2**	1 U	**6**
	01/03/2017	1 U	**2**	1 U	**5**
	12/21/2017	1 U	**2**	1 U	**3**
	12/02/2019	0.61 U	**2.1**	0.39 U	**3.3**
	12/01/2021	1 U	1 U	1 U	**0.82 J**
PSBA-MW0012 [10-20]	12/04/2012	**11**	**16**	1 U	1 U
	12/02/2013	**10**	**13**	1 U	1 U
	12/08/2014	**7**	**10**	1 U	1 U
	12/02/2015	1 U	**7**	1 U	1 U
	12/30/2016	**5**	**4**	1 U	1 U
	12/21/2017	**3**	**2**	1 U	1 U
	12/05/2019	**3.2**	**2.9**	0.39 U	**0.45 J**
	12/01/2021	**2.2**	**1.7**	1 U	1 U
PSBA-MW0014 [30-40]	04/13/2010	5 U	**11**	4.4 U	**570**
	11/10/2010	1 U	**2.5**	0.88 U	**1100**
	11/21/2011	0.5 U	**4.2**	0.44 U	**670**
	12/04/2012	1 U	**4**	1 U	**510**
	12/02/2013	1 U	**3**	1 U	**590**
	12/08/2014	2 U	**4**	2 U	**220**
	12/02/2015	2 U	2 U	2 U	**250**
	12/30/2016	1 U	**1**	1 U	**170**
	12/21/2017	1 U	**1**	1 U	**31**
	10/04/2018	1 U	1 U	1 U	**22**
	12/03/2019	0.61 U	0.32 U	0.39 U	**3**
	12/01/2021	1 U	1 U	1 U	**1.4**
PSBA-MW0015 [40-50]	04/13/2010	0.5 U	**3**	0.44 U	**78**
	10/25/2010	0.5 U	**4.7**	0.44 U	**200**
	11/21/2011	0.5 U	**4**	0.44 U	**140**
	12/04/2012	1 U	**4**	1 U	**210**
	12/02/2013	1 U	**2**	1 U	**44**
	12/08/2014	1 U	**2**	1 U	**110**
	12/02/2015	1 U	**1**	1 U	**94**
	12/30/2016	1 U	**1**	1 U	**81**
	12/21/2017	1 U	**1**	1 U	**99**
	10/04/2018	1 U	1 U	1 U	**43**
	12/04/2019	0.61 U	**0.33 J**	0.39 U	**14**
	01/06/2021	1 U	1 U	1 U	**4.3**
	12/01/2021	1 U	1 U	1 U	**3.2**
	12/12/2022	0.50 U	0.50 U	0.50 U	**1.1**

Table 2.3
Groundwater Results for TCE, cDCE, tDCE, and VC
PSBA (SWMU 102)

Well/ Screened Interval	Sample Date	TCE	cDCE	tDCE	VC
PSBA-MW0018 [40-50]	04/13/2010	**950**	**250**	**0.94 I**	**3**
	10/25/2010	**68**	**1200**	**1.1**	**3.4**
	11/21/2011	0.5 U	**490**	**1.5**	**5.2**
	12/04/2012	3 U	**450**	3 U	3 U
	12/02/2013	1 U	**92**	1 U	**50**
	12/30/2013	1 U	**130**	1 U	**21**
	12/08/2014	1 U	**21**	1 U	**15**
	12/02/2015	1 U	1 U	1 U	**2**
	01/03/2017	1 U	**1**	1 U	**2**
	12/21/2017	1 U	1 U	1 U	1 U
	10/04/2018	1 U	1 U	1 U	1 U
PSBA-MW0019 [30-40]	11/21/2011	0.5 U	0.65 U	0.44 U	0.5 U
	12/04/2012	1 U	**5**	1 U	1 U
	12/02/2013	1 U	**40**	1 U	**28**
	12/18/2013	1 U	**33**	1 U	**35**
	12/08/2014	1 U	1 U	1 U	1 U
	12/02/2015	1 U	1 U	1 U	**11**
	01/03/2017	1 U	1 U	1 U	**2**
	12/21/2017	1 U	1 U	1 U	1 U
	10/04/2018	1 U	1 U	1 U	1 U
	12/05/2019	0.61 U	0.32 U	0.39 U	**2.8**
	01/06/2021	1 U	1 U	1 U	**1.9**
	11/30/2021	1 U	1 U	1 U	**1.9**
PSBA-MW0020 [40-50]	11/08/2011	0.5 U	0.65 U	0.44 U	0.5 U
	12/04/2012	1 U	1 U	1 U	1 U
	12/02/2013	1 U	1 U	1 U	1 U
	12/08/2014	1 U	1 U	1 U	1 U
	12/02/2015	1 U	**2**	1 U	**3**
	01/03/2017	1 U	1 U	1 U	**1**
	12/21/2017	1 U	1 U	1 U	**4**
	10/04/2018	1 U	1 U	1 U	1 U
	12/02/2019	0.61 U	0.32 U	0.39 U	0.26 U
	11/30/2021	1 U	1 U	1 U	1 U
PSBA-MW0021 [40-50]	11/08/2011	**4.4**	**32**	0.44 U	0.5 U
	12/04/2012	1 U	**30**	1 U	1 U
	12/02/2013	1 U	**37**	1 U	1 U
	12/08/2014	1 U	**24**	1 U	1 U
	12/02/2015	1 U	**13**	1 U	**1**
	01/03/2017	1 U	**1**	1 U	1 U
	12/21/2017	1 U	1 U	1 U	**1**
	10/04/2018	1 U	1 U	1 U	1 U
PSBA-MW0022 [40-50]	11/08/2011	0.5 U	**2.4**	0.44 U	0.5 U
	12/04/2012	1 U	**22**	1 U	1 U
	12/02/2013	**1**	**130**	**1**	1 U
	12/30/2013	**1**	**120**	1 U	1 U
	12/08/2014	1 U	**51**	1 U	1 U
	12/02/2015	1 U	**11**	1 U	**42**
	01/03/2017	1 U	**2**	1 U	**2**
	12/21/2017	1 U	**3**	1 U	1 U
	10/04/2018	1 U	**2**	1 U	1 U

Table 2.3
Groundwater Results for TCE, cDCE, tDCE, and VC
PSBA (SWMU 102)

Well/ Screened Interval	Sample Date	TCE	cDCE	tDCE	VC
PSBA-MW0023 [50-60]	11/08/2011	**4.8**	**110**	0.44 U	**1.8**
	12/04/2012	1 U	1 U	1 U	1 U
	12/02/2013	1 U	1 U	1 U	1 U
	12/08/2014	1 U	**4**	1 U	1 U
	12/02/2015	1 U	1 U	1 U	1 U
	01/03/2017	1 U	1 U	1 U	1 U
	12/21/2017	1 U	1 U	1 U	1 U
PSBA-MW0024 [40-50]	11/08/2011	**0.73 I**	**370**	**3.4**	**6.6**
	12/04/2012	2 U	**190**	2 U	**110**
	12/02/2013	1 U	**2**	1 U	**150**
	12/30/2013	1 U	**1**	1 U	**99**
	12/08/2014	1 U	1 U	1 U	**27**
	12/02/2015	1 U	1 U	1 U	**15**
	01/03/2017	1 U	1 U	1 U	**5**
	12/21/2017	1 U	1 U	1 U	**6**
	10/04/2018	1 U	1 U	1 U	1 U
	12/03/2019	0.61 U	0.32 U	0.39 U	**0.35 J**
	12/01/2021	1 U	1 U	1 U	1 U
PSBA-MW0025 [40-50]	11/08/2011	**1.2**	**97**	0.44 U	0.5 U
	12/04/2012	1 U	**320**	1 U	1 U
	12/02/2013	1 U	**440**	1 U	**2**
	12/08/2014	1 U	**320**	1 U	**1**
	12/02/2015	2 U	**14**	2 U U	**380**
	01/03/2017	1 U	**3**	1 U	**21**
	12/21/2017	3 U	2 U	2 U	**17**
	10/04/2018	1 U	**2**	1 U	**1**
	12/03/2019	0.61 U	**3.1**	0.39 U	**7.4**
	12/01/2021	1 U	**2.6**	1 U	**4.8**
PSBA-MW0026 [30-40]	11/08/2011	0.5 U	**0.98 I**	0.44 U	**140**
	12/04/2012	1 U	**2**	1 U	**100**
	12/02/2013	1 U	**2**	1 U	**67**
	12/08/2014	1 U	**1**	1 U	**76**
	12/02/2015	1 U	1 U	1 U	**10**
	12/30/2016	1 U	1 U	1 U	**6**
	12/21/2017	1 U	1 U	1 U	**5**
	12/03/2019	0.61 U	0.32 U	0.39 U	**2.1**
	12/01/2021	1 U	1 U	1 U	**0.64 J**
PSBA-MW0027 [40-50]	11/08/2011	0.5 U	**1.5**	0.44 U	**300**
	12/04/2012	1 U	**1**	1 U	**160**
	12/02/2013	1 U	**1**	1 U	**75**
	12/08/2014	1 U	**1**	1 U	**52**
	12/02/2015	1 U	**2**	1 U	**45**
	12/30/2016	1 U	**2**	1 U	**41**
	12/21/2017	1 U	1 U	1 U	**23**
	10/04/2018	1 U	1 U	1 U	**7**
	12/03/2019	0.61 U	0.32 U	0.39 U	**2.1**
	12/01/2021	1 U	1 U	1 U	**2.1**

Table 2.3
Groundwater Results for TCE, cDCE, tDCE, and VC
PSBA (SWMU 102)

Well/ Screened Interval	Sample Date	TCE	cDCE	tDCE	VC
PSBA-MW0028 [30-40]	11/08/2011	0.5 U	0.65 U	0.44 U	**140**
	12/04/2012	1 U	1 U	1 U	**130**
	12/02/2013	1 U	1 U	1 U	**86**
	12/08/2014	1 U	1 U	1 U	**78**
	12/02/2015	1 U	1 U	1 U	**53**
	12/30/2016	1 U	1 U	1 U	**3**
	12/21/2017	1 U	1 U	1 U	**3**
	12/01/2019	0.61 U	0.32 U	0.39 U	**1.3**
	12/01/2021	1 U	1 U	1 U	**1.1**
PSBA-MW0029 [30-40]	11/08/2011	0.5 U	**0.89 I**	0.44 U	**76**
	12/04/2012	1 U	1 U	1 U	**200**
	12/02/2013	1 U	**2**	1 U	**90**
	12/08/2014	1 U	1 U	1 U	**92**
	12/02/2015	1 U	**1**	1 U	**57**
	12/30/2016	1 U	1 U	1 U	**96**
	12/21/2017	1 U	1 U	1 U	**68**
	10/04/2018	1 U	1 U	1 U	**4**
	12/04/2019	0.61 U	0.32 U	0.39 U	**3.3**
	12/01/2021	1 U	1 U	1 U	**2.6**
PSBA-MW0030 [30-40]	11/08/2011	0.5 U	0.65 U	0.44 U	**11**
	12/04/2012	1 U	1 U	1 U	**9**
	12/02/2013	1 U	1 U	1 U	**4**
	12/08/2014	1 U	1 U	1 U	**6**
	12/02/2015	1 U	1 U	1 U	**3**
	12/30/2016	1 U	1 U	1 U	**11**
	12/21/2017	1 U	1 U	1 U	**30**
	10/04/2018	1 U	1 U	1 U	**3**
	12/04/2019	0.61 U	**0.90 J**	0.39 U	**6**
	12/01/2021	1 U	**0.99 J**	1 U	**7**
PSBA-MW0031 [40-50]	12/04/2012	1 U	1 U	1 U	**94**
	12/02/2013	1 U	1 U	1 U	**74**
	12/08/2014	2 U	2 U	2 U	**180**
	12/02/2015	3 U	3 U	3 U	**380**
	12/30/2016	5 U	5 U	5 U	**720**
	12/21/2017	3 U	**4**	3 U	**310**
	10/04/2018	1 U	**2**	1 U	**840**
	12/04/2019	1.2 U	0.65 U	0.39 U	**440**
	01/06/2021	1 U	**0.41 J**	1 U	**273**
	12/01/2021	1 U	1 U	1 U	**67.2**
	12/12/2022	0.50 U	0.50 U	0.50 U	**3.2**
PSBA-MW0034 [40-50]	02/27/2018	0.35 U	**23.5**	0.22 U	0.41 U
	10/04/2018	1 U	**21**	1 U	**15**
	12/03/2019	0.61 U	**9.5**	0.39 U	**6.3**
	01/06/2021	1 U	**5.1**	1 U	**3.4**
	12/01/2021	1 U	**4**	1 U	**2.7**
	12/12/2022	0.50 U	**2.4**	0.50 U	**2.3**

Table 2.3
Groundwater Results for TCE, cDCE, tDCE, and VC
PSBA (SWMU 102)

Well/ Screened Interval	Sample Date	TCE	cDCE	tDCE	VC
PSBA-MW0035 [40-50]	02/27/2018	0.35 U	0.28 U	0.22 U	**0.55 I**
	10/04/2018	1 U	1 U	1 U	1 U
	12/04/2019	0.61 U	0.32 U	0.39 U	**1.3**
	01/08/2021	1 U	1 U	1 U	**2.2**
	12/01/2021	1 U	1 U	1 U	**4.5**
	12/12/2022	0.50 U	0.50 U	0.50 U	**7.6**
PSBA-MW0036 [40-50]	02/27/2018	0.35 U	0.28 U	0.22 U	**21.5**
	10/04/2018	1 U	1 U	1 U	**7**
	12/04/2019	0.61 U	0.32 U	0.39 U	**110**
	01/06/2021	1 U	1 U	1 U	**89.5**
	12/01/2021	1 U	1 U	1 U	**26.4**
	12/12/2022	0.50 U	0.50 U	0.50 U	**14.0**
PSBA-MW0037 [40-50]	02/27/2018	0.35 U	0.28 U	0.22	2.4 U
	10/04/2018	1 U	1 U	1 U	1 U
	12/04/2019	0.61 U	0.32 U	0.39 U	**11**
	01/06/2021	1 U	**0.29 J**	1 U	**13.8**
	12/01/2021	1 U	1 U	1 U	**11.7**
	12/12/2022	0.50 U	**0.43 J**	0.50 U	**12.7**

Notes:

Concentrations in µg/L.

PSBA = Propellants Support Building Area.

TCE = Trichloroethene.

tDCE = trans-1,2-Dichloroethene.

cDCE = cis-1,2-Dichloroethene.

VC = Vinyl chloride.

Bolded results exceed method detection limits (MDLs).

Yellow shaded results are greater than or equal to Groundwater Cleanup Target Levels.
TCE = 3 µg/L, cDCE = 70 µg/L, tDCE = 100 µg/L, and VC = 1 µg/L.

Blue shaded results are greater than or equal to Natural Attenuation Default Concentrations.
TCE = 300 µg/L, cDCE = 700 µg/L, tDCE = 1000 µg/L, and VC = 100 µg/L.

FDEP rounding guidance is applied to results in this report. A numerical result above a screening value will not be marked an exceedance if the rounded result meets the screening value.

I = Reported value is between MDL and practical quantitation limit.

J = Estimated concentration.

U = Not detected at or above MDL (associated value).

J3 = Estimated value; value may not be accurate. Spike recovery or relative percent difference outside of criteria.

Q = Sample held beyond accepted holding time.

Table 2.4
DPT Groundwater Results for TCE, cDCE, tDCE, and VC
PSBA (SWMU 102)

DPT Groundwater Sample Location ID	Sample Depth [in feet bls]	Sample Date	TCE	cDCE	tDCE	VC
PSBA-DPT0337	13 to 17	04/10/2023	1 U	1 U	1 U	1 U
	23 to 27		1 U	1 U	1 U	**1**
	33 to 37		1 U	1 U	1 U	**11**
	43 to 47		1 U	1 U	1 U	1 U
PSBA-DPT0338	13 to 17	04/10/2023	1 U	1 U	1 U	**7**
	23 to 27		1 U	1 U	1 U	**37**
	33 to 37		1 U	1 U	1 U	**4**
	43 to 47		1 U	1 U	1 U	1 U
PSBA-DPT0339	13 to 17	04/10/2023	1 U	1 U	1 U	**7**
	23 to 27	04/11/2023	1 U	1 U	1 U	**36**
	33 to 37		1 U	1 U	1 U	1 U
	43 to 47		1 U	1 U	1 U	1 U
PSBA-DPT0340	23 to 27	04/11/2023	1 U	1 U	1 U	1 U
	33 to 37		1 U	1 U	1 U	**44**
	43 to 47		1 U	1 U	1 U	**110**
	53 to 57		1 U	1 U	1 U	1 U
PSBA-DPT0341	13 to 17	04/11/2023	1 U	1 U	1 U	1 U
	23 to 27		1 U	1 U	1 U	**7**
	33 to 37		1 U	1 U	1 U	**570**
	43 to 47		1 U	1 U	1 U	**1**
PSBA-DPT0342	3 to 7	04/11/2023	1 U	1 U	1 U	1 U
	13 to 17		1 U	1 U	1 U	**36**
	23 to 27		1 U	1 U	1 U	**36**
	33 to 37		1 U	1 U	1 U	**80**
	43 to 47		1 U	1 U	1 U	1 U
PSBA-DPT0343	23 to 27	04/11/2023	1 U	**5**	1 U	1 U
	33 to 37		1 U	1 U	1 U	**4**
	43 to 47		1 U	1 U	1 U	**12**
	53 to 57		1 U	1 U	1 U	1 U
PSBA-DPT0344	23 to 27	04/12/2023	1 U	1 U	1 U	1 U
	33 to 37		1 U	**1**	1 U	**6**
	43 to 47		1 U	1 U	1 U	1 U
	53 to 57		1 U	1 U	1 U	1 U
PSBA-DPT0345	33 to 37	04/12/2023	1 U	1 U	1 U	**2**
	43 to 47		1 U	1 U	1 U	**280**
	53 to 57		1 U	1 U	1 U	1 U
PSBA-DPT0346	33 to 37	04/12/2023	1 U	1 U	1 U	1 U
	43 to 47		1 U	**1**	1 U	**270**
	53 to 57		1 U	1 U	1 U	1 U
PSBA-DPT0347	33 to 37	04/12/2023	1 U	1 U	1 U	1 U
	43 to 47		1 U	1 U	1 U	**15**
	53 to 57		1 U	1 U	1 U	1 U

Table 2.4
DPT Groundwater Results for TCE, cDCE, tDCE, and VC
PSBA (SWMU 102)

DPT Groundwater Sample Location ID	Sample Depth [in feet bls]	Sample Date	TCE	cDCE	tDCE	VC
PSBA-DPT0348	33 to 37	04/12/2023	1 U	1 U	1 U	1 U
	43 to 47		1 U	1 U	1 U	**65**
	53 to 57		1 U	1 U	1 U	**25**
PSBA-DPT0349	33 to 37	04/12/2023	1 U	1 U	1 U	1 U
	43 to 47		1 U	**2**	1 U	**120**
	53 to 57		1 U	1 U	1 U	**1**
PSBA-DPT0350	33 to 37	04/13/2023	1 U	1 U	1 U	1 U
	43 to 47		1 U	**2**	1 U	**85**
	53 to 57		1 U	1 U	1 U	1 U
PSBA-DPT0351	33 to 37	04/13/2023	**8**	1 U	1 U	1 U
	43 to 47		**1**	**5**	1 U	**12**
	53 to 57		1 U	1 U	1 U	1 U
PSBA-DPT0352	33 to 37	04/13/2023	1 U	1 U	1 U	1 U
	43 to 47		1 U	**3**	1 U	**140**
	53 to 57		1 U	1 U	1 U	**1**
PSBA-DPT0353	33 to 37	04/13/2023	1 U	1 U	1 U	1 U
	43 to 47		1 U	**3**	1 U	**66**
	53 to 57		1 U	**3**	1 U	**65**
PSBA-DPT0354	33 to 37	04/13/2023	1 U	**1**	1 U	1 U
	43 to 47		1 U	**2**	1 U	**6**
	53 to 57		1 U	1 U	1 U	1 U
PSBA-DPT0355	13 to 17	04/14/2023	1 U	1 U	1 U	**7**
	23 to 27		1 U	1 U	1 U	**2**
	33 to 37		1 U	1 U	1 U	1 U
	43 to 47		1 U	1 U	1 U	**2**
	53 to 57		1 U	1 U	1 U	1 U
PSBA-DPT0356	13 to 17	04/14/2023	1 U	1 U	1 U	1 U
	23 to 27		1 U	1 U	1 U	1 U
	33 to 37		1 U	1 U	1 U	**1**
	43 to 47		1 U	1 U	1 U	**3**
	53 to 57		1 U	1 U	1 U	1 U
PSBA-DPT0357	23 to 27	04/14/2023	1 U	1 U	1 U	1 U
	33 to 37		1 U	**8**	1 U	**34**
	43 to 47		1 U	1 U	1 U	**8**
	53 to 57		1 U	1 U	1 U	1 U
PSBA-DPT0358	23 to 27	04/14/2023	1 U	1 U	1 U	1 U
	33 to 37		1 U	**8**	1 U	**26**
	43 to 47		1 U	1 U	1 U	**5**
	53 to 57		1 U	1 U	1 U	1 U
PSBA-DPT0359	33 to 37	07/10/2023	1 U	1 U	1 U	1 U
	43 to 47		1 U	1 U	1 U	**4**
	53 to 57		1 U	1 U	1 U	1 U

Table 2.4
DPT Groundwater Results for TCE, cDCE, tDCE, and VC
PSBA (SWMU 102)

DPT Groundwater Sample Location ID	Sample Depth [in feet bls]	Sample Date	TCE	cDCE	tDCE	VC
PSBA-DPT0360	23 to 27	07/11/2023	1 U	1 U	1 U	1 U
	33 to 37	07/10/2023	1 U	**1**	1 U	**9**
	43 to 47		1 U	1 U	1 U	**1**
	53 to 57		1 U	1 U	1 U	1 U
PSBA-DPT0361	33 to 37	07/10/2023	1 U	1 U	1 U	**3**
	43 to 47		1 U	**2**	1 U	**13**
	53 to 57		1 U	1 U	1 U	1 U
PSBA-DPT0362	33 to 37	07/10/2023	1 U	1 U	1 U	1 U
	43 to 47		1 U	**3**	1 U	**10**
	53 to 57		1 U	1 U	1 U	1 U
PSBA-DPT0363	33 to 37	07/11/2023	1 U	**6**	1 U	**2**
	43 to 47		1 U	**1**	1 U	**1**
	53 to 57		1 U	1 U	1 U	1 U
PSBA-DPT0364	33 to 37	07/11/2023	**19**	1 U	1 U	1 U
	43 to 47		1 U	**4**	1 U	**23**
	53 to 57		1 U	1 U	1 U	1 U
PSBA-DPT0365	23 to 27	07/11/2023	**7**	1 U	1 U	1 U
	33 to 37		**48**	1 U	1 U	1 U
	43 to 47		1 U	**4**	1 U	**50**
	53 to 57		1 U	1 U	1 U	1 U
PSBA-DPT0366	33 to 37	07/11/2023	1 U	1 U	1 U	1 U
	43 to 47		1 U	**3**	1 U	**86**
	53 to 57		1 U	1 U	1 U	1 U

Notes:

Concentrations in micrograms per liter (µg/L).

bgs = below ground surface

DPT = direct-push technology

PSBA = Propellants Support Building Area

TCE = trichloroethene

tDCE = trans-1,2-dichloroethene

cDCE = cis-1,2-dichloroethene

SWMU = solid waste management unit

VC = vinyl chloride

Bolded results exceed method detection limits (MDLs).

Yellow shaded results are greater than or equal to Groundwater Cleanup Target Levels.

TCE = 3 µg/L, cDCE = 70 µg/L, tDCE = 100 µg/L, and VC = 1 µg/L.

Blue shaded results are greater than or equal to Natural Attenuation Default Concentrations.

TCE = 300 µg/L, cDCE = 700 µg/L, tDCE = 1000 µg/L, and VC = 100 µg/L.

FDEP rounding guidance is applied to results in this report. A numerical result above a screening value will not be marked an exceedance if the rounded result meets the screening value.

U = Not detected at or above MDL (associated value).

J = Chemical was detected but the concentration reported is an estimated value.

Table 2.5
Mann-Kendall Trend Analysis Summary
PSBA (SWMU 102)

Well ID (PSBA-)	Screened Interval (ft bls)	*TCE*	*cDCE*	*tDCE*	*VC*
Sample Depths 30 to 40 ft bls					
MW0005	30-40	--	--	--	**No Trend**
Sample Depths 40 to 50 ft bls					
MW0031	40-50	--	--	--	**Stable**
MW0034	40-50	--	--	--	**No Trend**
MW0035	40-50	--	--	--	**Increasing**
MW0036	40-50	--	--	--	**Stable**
MW0037	40-50	--	--	--	**Probably Increasing**

Notes

-- indicates Mann-Kendall (M-K) trend analysis was not conducted because analyte detected below the GCTL.

Definitions and Acronyms

cDCE = cis-1,2-dichloroethene
ft bls = feet below land surface
GCTL = groundwater cleanup target level
ID = Identification
PSBA = Propellants Support Building Area
TCE = trichloroethene
tDCE = trans-1,2-dichloroethene
VC = vinyl chloride

Table 2.6
2022-2023 Interim Groundwater Monitoring Wells
PSBA (SWMU 102)

Well ID	Plume	Sampling Frequency
PSBA-MW0005 [30-40]	East-West	Annual
PSBA-MW0006 [40-50]	East-West	Biennial
PSBA-MW0007 [40-50]	East-West	Biennial
PSBA-MW0009 [40-50]	East-West	Biennial
PSBA-MW0010 [40-50]	East-West	Biennial
PSBA-MW0012 [10-20]	East-West	Biennial
PSBA-MW0014 [30-40]	East-West	Biennial
PSBA-MW0015 [40-50]	East-West	Annual
PSBA-MW0019 [30-40]	East-West	Annual
PSBA-MW0020 [40-50]	East-West	Biennial
PSBA-MW0024 [40-50]	North	Biennial
PSBA-MW0025 [40-50]	North	Biennial
PSBA-MW0026 [30-40]	East-West	Biennial
PSBA-MW0027 [40-50]	East-West	Biennial
PSBA-MW0028 [30-40]	East-West	Biennial
PSBA-MW0029 [30-40]	East-West	Biennial
PSBA-MW0030 [30-40]	East-West	Biennial
PSBA-MW0031 [40-50]	East-West	Annual
PSBA-MW0034 [40-50]	North	Annual
PSBA-MW0035 [40-50]	East-West	Annual
PSBA-MW0036 [40-50]	East-West	Annual
PSBA-MW0037 [40-50]	East-West	Annual

Notes:

PSBA = Propellants Support Building Area

Table 3.1
2022-2023 Interim Groundwater Monitoring Wells
FDSA (SWMU 37)

Well ID (FDSA-)	Sampling Frequency
MW02I2 [33-38]	Biennial
MW03I1 [21-26]	Biennial
MW03S2 [8-18]	Annual
MW08S2 [3-13]	Biennial
MW09S2 [3-13]	Biennial
MW14S2 [2-12]	Annual
MW15S2 [1-11]	Annual
MW16S2 [2-12]	Annual
MW17D1 [42-47]	Annual
MW023S [10-20]	Biennial
MW025S [5-15]	Annual
MW027S [5-15]	Annual
MW0029 [10-20]	Annual
MW0031 [5-15]	Annual
MW0032 [20-30]	Biennial
MW0033 [20-30]	Annual
MW0034 [20-30]	Annual
MW0035 [40-50]	Annual
MW0036 [40-50]	Annual
MW0037 [40-50]	Biennial
MW0038 [40-50]	Annual

Well ID (FDSA-)	Sampling Frequency
MW0039 [40-50]	Annual
MW0040 [10-20]	Annual
MW0041 [30-40]	Biennial
MW0042 [10-20]	Biennial
MW0043 [10-20]	Biennial
MW0044 [20-30]	Annual
MW0045 [20-30]	Annual
MW0046 [30-40]	Biennial
MW0047 [10-20]	Annual
MW0048 [10-20]	Annual
MW0049 [20-30]	Biennial
MW0050 [20-30]	Annual
MW0051 [20-30]	Annual
MW0052 [10-20]	Annual
MW0054 [10-20]	Biennial
MW0055 [20-30]	Annual
MW0056 [10-20]	Biennial
MW0057 [20-30]	Annual
MW0058 [10-20]	Annual
MW0059 [10-20]	Annual
MW0061 [2-12]	Semi-Annual

Notes:

FDSA = Former Drum Storage Area

SWMU = solid waste management unit

Table 3.2
FDSA Water Level Measurements and Groundwater Elevations
FDSA (SWMU 37)

Well ID (FDSA-)	Screened Interval	Ground Surface Elevation (feet above msl)	T.O.C. Elevation (feet above msl)	December 6, 2022	
				Depth to Water (feet below T.O.C.)	Groundwater Elevation (feet above msl)
MW01S1	3-13	4.70	4.34	3.00	1.34
MW01S2	8-18	4.49	4.55	2.95	1.60
MW01I1	28-35	4.70	4.44	4.04	0.40
MW01D1	43.5-48.5	4.49	4.48	2.90	1.58
MW02I1	29-35	6.25	5.98	4.71	1.27
MW02I2	33-38	6.23	6.29	NM	NM
MW03S1	3-13	4.83	4.62	3.05	1.57
MW03S2	8-18	4.49	4.58	3.71	0.87
MW03I1	21-26	4.76	4.53	3.55	0.98
MW04S1	3-13	5.65	5.29	NM	NM
MW05S1	5-15	6.70	6.47	NM	NM
MW05I1	27-34	6.70	6.49	NM	NM
MW06S1	2-12	1.78	1.58	0.30	1.28
MW07S1	4-14	5.88	5.74	4.31	1.43
MW08S2	3-13	0.85	4.18	3.74	0.44
MW08I1	18-23	0.85	4.01	3.61	0.40
MW08D1	40-45	1.12	3.78	3.46	0.32
MW09S2	3-13	0.78	4.08	3.60	0.48
MW09I1	18-23	0.78	4.28	NM	NM
MW09D2	55-60	1.08	3.77	2.30	1.47
MW10S2	3-13	1.41	4.34	3.50	0.84
MW10I1	18-23	1.41	4.39	3.79	0.60
MW10I2	28-33	1.41	4.35	3.94	0.41
MW10D2	55-60	1.41	4.42	2.30	2.12
MW11I2	28-33	1.41	4.24	3.71	0.53
MW12S2	3-13	1.11	4.38	3.81	0.57
MW12I1	18-23	1.11	4.32	3.80	0.52
MW12I2	28-33	1.11	4.35	3.99	0.36
MW13S2	3-13	1.21	4.52	4.03	0.49
MW14S2	2-12	-0.39	2.85	2.71	0.14
MW15S2	1-11	-0.29	2.88	2.71	0.17
MW16S2	17-22	0.00	3.09	2.91	0.18
MW16I1	2-12	0.00	3.14	2.71	0.43
MW17D1	42-47	3.05	6.17	5.63	0.54
MW17D2	57-62	3.05	6.14	4.61	1.53
MW17D3	65-75	3.35	6.04	3.31	2.73
MW18D1	43-48	3.67	6.45	NM	NM
MW19S2	8.5-18.5	6.03	6.33	NM	NM
MW19I2	33.5-38.5	6.03	6.33	NM	NM
MW19D1	45-50	6.53	6.34	NM	NM
MW20D1	42-47	3.61	6.47	5.73	0.74
MW21S2	8-18	7.09	6.79	5.86	0.93
MW21I2	34-39	6.99	6.66	5.75	0.91
MW22S2	10-20	6.59	10.45	10.04	0.41
MW23S	10-20	6.77	9.83	9.83	0.00
MW24I	20-30	6.77	9.86	9.6	0.26
MW25S	5-15	0.75	3.75	3.71	0.04
MW26I	15-25	0.75	3.88	3.83	0.05
MW27S	5-15	1.08	4.11	3.80	0.31
MW28I	15-25	1.08	4.09	3.94	0.15
MW29	10-20	1.63	4.64	4.18	0.46
MW0030	NA	NS	4.17	3.84	0.33
MW0031	5-15	NS	3.28	2.97	0.31
MW0032	20-30	NS	4	3.64	0.36
MW0033	20-30	NS	7.56	7.19	0.37
MW0034	20-30	NS	6.45	5.55	0.90
MW0035	40-50	NS	6.3	5.37	0.93
MW0036	40-50	2.59	5.56	4.93	0.63
MW0037	40-50	3.34	6.12	NM	NM
MW0038	40-50	3.52	6.32	6.07	0.25
MW0039	40-50	3.68	6.6	5.81	0.79

Table 3.2
FDSA Water Level Measurements and Groundwater Elevations
FDSA (SWMU 37)

Well ID (FDSA-)	Screened Interval	Ground Surface Elevation (feet above msl)	T.O.C. Elevation (feet above msl)	December 6, 2022	
				Depth to Water (feet below T.O.C.)	Groundwater Elevation (feet above msl)
MW0040	10-20	6.8	6.27	5.34	0.93
MW0041	30-40	7.31	6.71	5.82	0.89
MW0042	10-20	5.93	8.55	7.53	1.02
MW0043	10-20	6.68	9.07	8.3	0.77
MW0044	20-30	6.76	9.24	8.61	0.63
MW0045	20-30	1.74	4.64	4.11	0.53
MW0046	30-40	1.64	4.14	3.90	0.24
MW0047	10-20	1.54	4.17	3.65	0.52
MW0048	10-20	0.99	3.71	3.49	0.22
MW0049	20-30	0.49	3.23	3.03	0.20
MW0050	20-30	1.01	3.91	2.70	1.21
MW0051	20-30	1.19	4.14	3.84	0.30
MW0052	10-20	1.23	3.91	2.41	1.50
MW0053	10-20	2.43	5.24	4.53	0.71
MW0054	10-20	1.83	4.44	NM	NM
MW0055	20-30	1.12	4.21	3.90	0.31
MW0056	10-20	1.4	4.35	3.91	0.44
MW0057	20-30	1.44	4.5	4.24	0.26
MW0058	10-20	0.91	3.88	3.69	0.19
MW0059	10-20	1.8	4.33	3.63	0.70
MW0060	15-25	1.54	4.15	3.82	0.33
MW0061	2-12	0.8	3.61	3.49	0.12

Notes:
T.O.C. = top of casing
msl = mean sea level
NA = not available
NM = not measured
FDSA = Former Drum Storage Area
SWMU = solid waste management unit

Table 3.3
Monitoring Well Groundwater Results for TCE, cDCE, tDCE, and VC
FDSA (SWMU 37)

Well (FDSA-)/Screened Interval [in feet bls]	Sample Date	TCE	cDCE	tDCE	VC
MW01S2 [8-18]	5/29/2014	1 U	1 U	1 U	1 U
	9/30/2014	1 U	**2**	1 U	1 U
	12/27/2014	1 U	1 U	1 U	1 U
	3/20/2015	1 U	1 U	1 U	1 U
	7/9/2015	1 U	1 U	1 U	1 U
	10/1/2015	1 U	1 U	1 U	1 U
	12/29/2015	1 U	3 U	3 U	1 U
	3/23/2016	1 U	1 U	1 U	1 U
	7/28/2016	1 U	1 U	1 U	1 U
	12/28/2016	1 U	1 U	1 U	1 U
	6/9/2017	1 U	1 U	1 U	1 U
	12/8/2017	1 U	1 U	1 U	1 U
	10/2/2018	1 U	1 U	1 U	1 U
	12/2/2019	0.61 U	0.32 U	0.39 U	0.26 U
MW02I2 [33-38]	6/4/2014	10 U	**940**	**89**	10 U
	9/30/2014	1 U	**4**	1 U	1 U
	7/9/2015	1 U	**2**	1 U	1 U
	7/29/2016	1 U	1 U	1 U	1 U
	12/28/2016	1 U	1 U	1 U	1 U
	6/9/2017	**1**	**3**	1 U	1 U
	12/8/2017	**2**	**4**	1 U	1 U
	10/2/2018	1 U	**1**	1 U	1 U
	12/4/2019	**0.76 J**	**2.2**	**0.74 J**	0.26 U
	12/3/2021	**2.4**	**4**	**0.56 J**	1 U
MW03S2 [8-18]	5/30/2014	**80**	**32100**	**800**	**4800**
	9/29/2014	**14**	**1300**	**60**	**64**
	7/9/2015	**3**	**21**	**3**	**2**
	10/1/2015	**2**	**15**	**2**	**1**
	12/29/2015	**2**	**8**	3 U	1 U
	3/23/2016	**2**	**6**	1 U	1 U
	7/28/2016	**2**	**5**	1 U	1 U
	12/28/2016	**4**	**11**	**2**	1
	6/9/2017	**4**	**8**	1 U	1 U
	12/8/2017	**2**	**5**	1 U	1 U
	10/2/2018	**2**	**17**	**1**	1 U
	12/2/2019	**54**	**45**	**4.6**	**0.91 J**
	1/6/2021	**68.5**	**49**	**4.5**	**4.8**
	12/3/2021	**667 J**	**97.2**	**4.4**	**31.8**
	6/14/2022	0.50 U	**5.8**	0.50 U	**20.4**
	12/9/2022	0.50 U	**1.2**	0.50 U	**1.6**
MW03I1 [21-26]	6/3/2014	1 U	**17**	**2**	1 U
	9/29/2014	**2**	**4**	1 U	1 U
	7/9/2015	**1**	1 U	1 U	1 U
	7/28/2016	**1**	1 U	1 U	1 U
	12/28/2016	1 U	1 U	1 U	1 U
	6/9/2017	1 U	1 U	1 U	1 U
	12/8/2017	1 U	1 U	1 U	1 U
	10/2/2018	1 U	1 U	1 U	1 U
	12/2/2019	**2.7**	**0.81 J**	0.39 U	0.26 U
	12/3/2021	**4.8**	**39.2**	**4.1**	1 U
MW04S1 [3-13]	6/4/2014	1 U	**4**	1 U	**2**
	9/30/2014	**2**	**12**	1 U	**1**
	7/9/2015	1 U	**2**	1 U	1 U
	12/28/2016	1 U	1 U	1 U	1 U
	6/9/2017	1 U	1 U	1 U	1 U
	12/8/2017	1 U	1 U	1 U	1 U
	12/4/2019	0.61 U	0.32 U	0.39 U	0.26 U

Table 3.3
Monitoring Well Groundwater Results for TCE, cDCE, tDCE, and VC
FDSA (SWMU 37)

Well (FDSA-)/Screened Interval [in feet bls]	Sample Date	TCE	cDCE	tDCE	VC
MW08S2 [3-13]	5/28/2014	**5**	**56**	**3**	**92**
	10/2/2014	1 U	**3**	1 U	**1**
	12/27/2014	1 U	1 U	1 U	1 U
	3/18/2015	1 U	1 U	1 U	1 U
	7/6/2015	1 U	1 U	1 U	1 U
	9/30/2015	1 U	**1**	1 U	1 U
	12/29/2015	1 U	3 U	3 U	1 U
	7/26/2016	1 U	1 U	1 U	1 U
	3/21/2016	1 U	1 U	1 U	1 U
	12/27/2016	1 U	**2**	1 U	1 U
	6/5/2017	1 U	1 U	1 U	1 U
	12/8/2017	**2**	**5**	1 U	1 U
	10/1/2018	**1**	**4**	1 U	1 U
	12/9/2019	**2**	**6.3**	**0.77 J**	0.26 U
	12/2/2021	**2.4**	**8.8**	1 U	1 U
MW09S2 [3-13]	5/27/2014	**85**	**210**	**4**	**9**
	10/1/2014	1 U	**2**	1 U	1 U
	7/7/2015	1 U	1 U	1 U	1 U
	7/26/2016	1 U	1 U	1 U	1 U
	12/29/2016	1 U	1 U	1 U	1 U
	6/6/2017	1 U	1 U	1 U	1 U
	12/11/2017	1 U	1 U	1 U	1 U
	10/1/2018	1 U	1 U	1 U	1 U
	12/9/2019	0.61 U	0.32 U	0.39 U	**0.29 J**
	12/2/2021	1 U	1 U	1 U	1 U
MW14S2 [2-12]	5/27/2014	**20**	**170**	**4**	**24**
	10/3/2014	**14**	**19**	**2**	**13**
	12/27/2014	**7**	**15**	**1**	**7**
	3/19/2015	1 U	**5**	1 U	1 U
	7/6/2015	1 U	1 U	1 U	1 U
	9/30/2015	**3**	**3**	1 U	1 U
	12/28/2015	**1**	3 U	3 U	1 U
	3/22/2016	**1**	**1**	1 U	1 U
	7/25/2016	1 U	1 U	1 U	1 U
	12/27/2016	**4**	**3**	1 U	1 U
	6/5/2017	**2**	**1**	1 U	1 U
	12/7/2017	**5**	**3**	1 U	1 U
	10/1/2018	**4**	**2**	1 U	1 U
	10/24/2019	**2.5**	**2.4**	0.39 U	0.26 U
	12/4/2019	**2.6**	**3.2**	**0.51 J**	0.26 U
	3/16/2020	**2.9**	**1.8**	0.39 U	0.26 U
	6/22/2020	**2.7**	**2.3**	0.39 U	0.26 U
	10/8/2020	**4**	**2.5**	0.39 U	0.26 U
	1/7/2021	**2.9**	**2.6**	**0.29**	0.50 U
	4/1/2021	**3.5**	**2.6**	**0.31**	0.50 U
	7/8/2021	**3.1**	**1.8**	0.50 U	0.50 U
	12/2/2021	**2.8**	**1.9**	1 U	1 U
	12/7/2022	**4.7**	**2.3**	0.50 U	0.50 U

Table 3.3
Monitoring Well Groundwater Results for TCE, cDCE, tDCE, and VC
FDSA (SWMU 37)

Well (FDSA-)/Screened Interval [in feet bls]	Sample Date	TCE	cDCE	tDCE	VC
MW15S2 [1-11]	5/29/2014	2300	1100	85	10
	10/3/2014	9	11	1 U	1 U
	12/27/2014	17	21	2	1 U
	3/19/2015	3	3	1 U	1 U
	7/6/2015	1 U	1 U	1 U	1 U
	9/30/2015	8	4	1 U	1 U
	12/28/2015	15	14	3 U	1 U
	3/22/2016	13	23	2	1 U
	4/25/2016	5	11	29	1 U
	7/25/2016	1 U	1 U	1 U	1 U
	12/27/2016	31	92	10	1 U
	6/5/2017	6	16	1	1 U
	12/19/2017	210	130	8	3
	6/21/2018	23.2	14.1	1.6	0.41 U
	10/1/2018	26	16	1	1 U
	10/24/2019	70	38	3	0.62 J
	12/5/2019	70	40	3.3	1.1
	3/16/2020	23	9.7	1.3 J	0.52 J
	6/22/2020	47	17	1.9 J	0.41 J
	10/8/2020	35	18	2	0.75 J
	1/7/2021	36.6	25.2	1.7	0.50 U
	4/1/2021	28.1	15.6	1.2	0.50 U
	7/8/2021	7.2	5.1	0.48	0.50 U
	12/2/2021	2.8	17	1.3	1 U
	12/8/2022	12.2	11.1	0.89 J	0.50 U
MW16S2 [2-12]	6/4/2014	7500	3400	230	40 U
	10/3/2014	22	25	3	1 U
	12/27/2014	19	31	3	1 U
	3/19/2015	2	4	1 U	1 U
	7/6/2015	3	2	1 U	1 U
	9/29/2015	11	17	3	1 U
	12/28/2015	2	3 U	3 U	1 U
	3/22/2016	1 U	1 U	1 U	1 U
	7/25/2016	1 U	1 U	1 U	1 U
	12/27/2016	7	7	1	1 U
	6/5/2017	4	3	1 U	1 U
	12/8/2017	4	10	1	1 U
	10/1/2018	5	9	1	1 U
	10/24/2019	3.2	12	1.8 J	0.26 U
	12/5/2019	4.1	14	2.2	0.38 J
	3/16/2020	4.4	13	1.9 J	0.61 J
	6/22/2020	6.6	16	2	0.37 J
	10/8/2020	3.4	13	2	0.5 J
	1/8/2021	2.8	15	2	0.50 U
	4/1/2021	9.7	24.6	2.5	0.42
	7/8/2021	8.8	16.3	1.5	0.50 U
	12/2/2021	3.9	13.9	1 U	1 U
	12/8/2022	3.1	13.0	1.3	0.50 U
MW16I1 [17-22]	5/29/2014	1 U	1 U	1 U	1 U
	10/3/2014	1 U	1 U	1 U	1 U
	12/27/2014	1 U	1 U	1 U	1 U
	3/19/2015	1 U	1 U	1 U	1 U
	7/6/2015	1 U	1 U	1 U	1 U
	7/25/2016	1 U	1 U	1 U	1 U
	12/27/2016	1 U	1 U	1 U	1 U
	6/5/2017	1 U	1 U	1 U	1 U
	12/8/2017	1 U	1 U	1 U	1 U
	10/1/2018	1 U	1 U	1 U	1 U
	12/9/2019	0.61 U	0.32 U	0.39 U	0.26 U

Table 3.3
Monitoring Well Groundwater Results for TCE, cDCE, tDCE, and VC
FDSA (SWMU 37)

Well (FDSA-)/Screened Interval [in feet bls]	Sample Date	TCE	cDCE	tDCE	VC
MW17D1 [42-47]	6/4/2014	**1000**	**160**	12 U	10 U
	9/29/2014	**1000**	**190**	**9**	5 U
	12/27/2014	**680**	**190**	**8**	5 U
	3/24/2015	**320**	**130**	**12**	3 U
	7/10/2015	**160**	**86**	**8**	1 U
	10/2/2015	**210**	**94**	**12**	1 U
	12/30/2015	**28**	**51**	**4**	1 U
	3/23/2016	**24**	**69**	**9**	1 U
	7/29/2016	**6**	**92**	**9**	1 U
	10/22/2016	**6**	**30**	**4**	1 U
	12/29/2016	**5**	**18**	**2**	1 U
	3/17/2017	**6**	**18**	**2**	1 U
	6/9/2017	**4**	**13**	1 U	1 U
	12/11/2017	**3**	**9**	1 U	1 U
	6/21/2018	**6.2**	**11.7**	**1.4**	0.41 U
	10/1/2018	**6**	**18**	**2**	1 U
	12/2/2019	**6.5**	**21**	**1.7 J**	**0.3 J**
	1/6/2021	**6.8**	**34.4**	**1.5**	0.50 U
	12/3/2021	**3.6**	**98**	**3.6**	**0.47 J**
	12/9/2022	**2.5**	**113**	**7.5**	**0.72 J**
MW22S2 [10-20]	5/26/2014	**2**	1 U	1 U	1 U
	9/30/2014	1 U	1 U	1 U	1 U
	12/27/2014	1 U	**3**	1 U	1 U
	3/18/2015	1 U	1 U	1 U	1 U
	7/8/2015	1 U	1 U	1 U	1 U
	10/2/2015	1 U	1 U	1 U	1 U
	12/29/2015	1 U	3 U	3 U	1 U
	3/22/2016	1 U	1 U	1 U	1 U
	7/28/2016	1 U	**2**	1 U	1 U
	12/23/2016	1 U	1 U	1 U	1 U
	6/8/2017	1 U	1 U	1 U	1 U
	12/8/2017	1 U	1 U	1 U	1 U
	10/3/2018	1 U	1 U	1 U	1 U
	12/4/2019	0.61 U	0.32 U	0.39 U	0.26 U
	12/8/2022	0.50 U	0.81 J	0.50 U	0.50 U
MW023S [10-20]	5/26/2014	1 U	**4**	1 U	1 U
	9/30/2014	**3**	**10**	1 U	1 U
	3/18/2015	1 U	1 U	1 U	1 U
	7/8/2015	1 U	1 U	1 U	1 U
	10/2/2015	**1**	**2**	1 U	1 U
	12/29/2015	1 U	3 U	3 U	1 U
	3/22/2016	1 U	1 U	1 U	1 U
	7/28/2016	1 U	**1**	1 U	1 U
	12/23/2016	**1**	**3**	1 U	1 U
	6/8/2017	1 U	1 U	1 U	1 U
	12/8/2017	**1**	**2**	1 U	1 U
	10/3/2018	**1**	**2**	1 U	1 U
	12/4/2019	**2.8**	**2.2**	0.39 U	0.26 U
	12/2/2021	**2.6**	**10.3**	1 U	1 U

Table 3.3
Monitoring Well Groundwater Results for TCE, cDCE, tDCE, and VC
FDSA (SWMU 37)

Well (FDSA-)/Screened Interval [in feet bls]	Sample Date	TCE	cDCE	tDCE	VC
MW024I [20-30]	12/28/2014	1 U	1 U	1 U	1 U
	7/8/2015	1 U	1 U	1 U	1 U
	7/28/2016	1 U	1 U	1 U	1 U
	12/23/2016	1 U	1 U	1 U	1 U
	6/8/2017	1 U	1 U	1 U	1 U
	12/8/2017	1 U	1 U	1 U	1 U
	10/3/2018	1 U	1 U	1 U	1 U
	12/4/2019	0.61 U	0.32 U	0.39 U	0.26 U
MW025S [5-15]	5/27/2014	**9**	**26**	**3**	**56**
	10/2/2014	1 U	**2**	1 U	**2**
	3/19/2015	1 U	1 U	1 U	1 U
	7/6/2015	1 U	1 U	1 U	1 U
	10/1/2015	**1**	**2**	**9**	**12**
	10/27/2015	1 U	1 U	1 U	1 U
	12/28/2015	1 U	3 U	3 U	1 U
	3/21/2016	1 U	1 U	1 U	1 U
	7/25/2016	1 U	1 U	1 U	1 U
	12/27/2016	**1**	1 U	1 U	1 U
	6/5/2017	**1**	1 U	1 U	1 U
	12/7/2017	**2**	**3**	1 U	1 U
	10/1/2018	**3**	1 U	1 U	1 U
	12/4/2019	**2.5**	**1.6**	0.39 U	0.26 U
	1/7/2021	**2.8**	**1.2**	0.50 U	0.50 U
	12/2/2021	**1.9**	**4.6**	1 U	1 U
	12/7/2022	**3.5**	**2.8**	0.50 U	0.50 U
MW027S [5-15]	5/26/2014	**7**	**15**	**3**	**67**
	10/2/2014	**5**	**17**	**2**	**19**
	12/28/2014	**5**	**13**	**1**	**21**
	3/19/2015	**2**	**5**	1 U	**5**
	7/6/2015	**1**	**3**	1 U	1 U
	10/1/2015	**4**	**3**	1 U	1 U
	12/28/2015	**2**	3 U	3 U	1 U
	3/21/2016	**2**	1 U	1 U	1 U
	7/26/2016	**2**	1 U	1 U	1 U
	12/27/2016	**2**	**2**	1 U	1 U
	6/5/2017	**3**	**2**	1 U	1 U
	12/8/2017	**2**	1 U	1 U	1 U
	10/1/2018	**1**	1 U	1 U	1 U
	12/4/2019	**1.4 J**	**1**	0.39 U	0.26 U
	1/7/2021	**2.1**	**2.3**	0.50 U	0.50 U
	12/2/2021	**1.6**	**4.3**	1 U	1 U
	12/7/2022	**4.5**	**6.5**	**0.65 J**	0.50 U
MW0029 [10-20]	5/26/2014	**40**	**35**	**9**	**2**
	10/2/2014	**89**	**35**	**7**	**6**
	12/29/2014	**5**	**42**	**7**	1 U
	3/24/2015	**4**	**32**	**9**	**1**
	7/10/2015	**1**	**27**	**10**	1 U
	9/29/2015	1 U	**14**	**7**	1 U
	12/30/2015	**2**	**36**	**6**	1 U
	3/23/2016	1 U	**13**	**7**	1 U
	7/29/2016	1 U	**12**	**8**	1 U
	12/29/2016	**2**	**18**	**10**	1 U
	6/7/2017	**3**	**30**	**7**	1 U
	12/11/2017	**4**	**15**	**14**	1 U
	10/3/2018	**2**	**12**	**5**	1 U
	12/5/2019	**2**	**16**	**2.8**	0.26 U
	1/6/2021	**2.1**	**21.9**	**2.7**	0.50 U
	12/3/2021	**8.9**	**26.1**	**2**	1 U
	12/8/2022	**12.0**	**25.8**	**2.6**	0.50 U

Table 3.3
Monitoring Well Groundwater Results for TCE, cDCE, tDCE, and VC
FDSA (SWMU 37)

Well (FDSA-)/Screened Interval [in feet bls]	Sample Date	TCE	cDCE	tDCE	VC
MW0031 [5-15]	5/29/2014	**930**	**560**	**81**	**6**
	10/2/2014	**5**	**3**	1 U	1 U
	3/19/2015	1 U	1 U	1 U	1 U
	7/7/2015	1 U	1 U	1 U	1 U
	9/30/2015	1 U	1	1 U	1 U
	12/29/2015	1 U	3 U	3 U	1 U
	3/21/2016	1 U	1 U	1 U	1 U
	7/25/2016	1 U	1 U	1 U	1 U
	12/23/2016	**3**	**5**	1 U	1 U
	6/6/2017	**1**	1 U	1 U	1 U
	12/8/2017	**3**	**1**	1 U	1 U
	10/1/2018	**2**	**5**	1 U	1 U
	12/6/2019	**2.7**	**1.7**	0.39 U	0.26 U
	1/8/2021	**2.5**	**1.6**	**0.25 J**	0.50 U
	12/2/2021	**3.5**	**1.6**	1 U	1 U
	12/8/2022	**3.1**	0.50 U	0.50 U	0.50 U
MW0032 [20-30]	5/29/2014	**100**	**3**	2 U	2 U
	10/1/2014	**3**	1 U	1 U	1 U
	12/28/2014	**1**	1 U	1 U	1 U
	3/19/2015	1 U	1 U	1 U	1 U
	7/7/2015	1 U	1 U	1 U	1 U
	10/1/2015	1 U	1 U	1 U	1 U
	12/29/2015	1 U	3 U	3 U	1 U
	3/21/2016	1 U	1 U	1 U	1 U
	7/27/2016	1 U	1 U	1 U	1 U
	12/23/2016	1 U	1 U	1 U	1 U
	6/7/2017	1 U	1 U	1 U	1 U
	12/11/2017	1 U	1 U	1 U	1 U
	10/2/2018	1 U	1 U	1 U	1 U
	12/3/2019	0.61 U	**0.92 J**	0.39 U	0.26 U
	12/2/2021	1 U	**1.7**	1 U	1 U
MW0033 [20-30]	5/30/2014	**6600**	**620**	**240**	**20** U
	9/30/2014	**32**	**15**	**1**	1 U
	12/28/2014	**11**	**6**	1 U	1 U
	3/20/2015	**8**	1	1 U	1 U
	7/8/2015	**4**	1 U	1 U	1 U
	10/1/2015	**3**	1 U	1 U	1 U
	12/29/2015	**2**	3 U	3 U	1 U
	3/22/2016	1 U	1 U	1 U	1 U
	7/27/2016	1 U	1 U	1 U	1 U
	12/28/2016	**1**	1 U	1 U	1 U
	6/7/2017	**1**	1 U	1 U	1 U
	12/8/2017	**1**	1 U	1 U	1 U
	10/2/2018	**1**	1 U	1 U	1 U
	12/3/2019	**5.2**	**0.94 J**	**0.41 J**	0.26 U
	1/8/2021	**2.8**	**1.1**	0.50 U	0.50 U
	12/3/2021	**4.2**	**1**	1 U	1 U
	12/7/2022	**7.2**	**1.3**	**0.50 J**	0.50 U

Table 3.3
Monitoring Well Groundwater Results for TCE, cDCE, tDCE, and VC
FDSA (SWMU 37)

Well (FDSA-)/Screened Interval [in feet bls]	Sample Date	TCE	cDCE	tDCE	VC
MW0034 [20-30]	6/4/2014	1 U	**93**	**16**	**6**
	10/1/2014	1 U	1 U	1 U	1 U
	3/20/2015	1 U	1 U	1 U	1 U
	7/9/2015	1 U	1 U	1 U	1 U
	10/2/2015	1 U	1 U	1 U	1 U
	12/29/2015	1 U	3 U	3 U	1 U
	3/23/2016	1 U	1 U	1 U	1 U
	7/29/2016	1 U	1 U	1 U	1 U
	12/28/2016	1 U	1 U	1 U	1 U
	6/8/2017	**2**	1 U	1 U	1 U
	12/8/2017	**3**	1 U	1 U	1 U
	10/2/2018	**2**	1 U	1 U	1 U
	12/2/2019	**4.2**	**0.39 J**	0.39 U	0.26 U
	1/6/2021	**3.9**	**0.50**	0.50 U	0.50 U
	12/3/2021	**4.4**	1 U	1 U	1 U
	12/9/2022	**2.7**	0.50 U	0.50 U	0.50 U
MW0035 [40-50]	6/4/2014	**130**	**220**	**8**	2 U
	9/29/2014	**98**	**220**	**7**	1 U
	12/28/2014	**45**	**59**	**2**	1 U
	3/24/2015	**39**	**48**	**4**	1 U
	7/10/2015	**23**	**39**	**4**	1 U
	9/29/2015	**21**	**42**	**2**	1 U
	12/30/2015	**22**	**42**	3 U	1 U
	3/23/2016	**28**	**46**	**5**	1 U
	7/29/2016	**7**	**9**	1 U	1 U
	12/29/2016	**2**	**6**	1 U	1 U
	3/17/2017	**6**	**16**	**1**	1 U
	6/9/2017	**6**	**26**	**1**	1 U
	12/11/2017	**5**	**25**	1 U	1 U
	6/21/2018	**5.2**	**30.4**	**1.8**	0.41 U
	10/3/2018	**5**	**40**	**2**	1 U
	12/6/2019	**4.6**	**51**	**3.3**	0.26 U
	1/6/2021	**2.1**	**59.9**	**2.7**	0.50 U
	12/3/2021	**1.6 J**	**56.2**	2 U	2 U
	12/8/2022	**1.1 J**	**48.9**	**1.7 J**	1.0 U
MW0036 [40-50]	6/4/2014	**510**	**150**	**7**	5 U
	9/29/2014	**370**	**200**	**10**	5 U
	12/28/2014	**190**	**270**	**16**	3 U
	3/24/2015	**78**	**450**	**41**	3 U
	7/10/2015	**26**	**250**	**23**	1 U
	9/29/2015	**31**	**280**	**21**	1 U
	12/30/2015	**14**	**130**	**8**	1 U
	3/23/2016	**9**	**77**	**10**	1 U
	7/29/2016	**5**	**31**	**3**	1 U
	10/22/2016	**4**	**12**	**2**	1 U
	12/29/2016	**5**	**34**	**4**	1 U
	3/17/2017	**9**	**63**	**6**	1 U
	6/9/2017	**4**	**26**	**1**	1 U
	12/11/2017	**1**	**12**	**1**	1 U
	6/21/2018	**2.3**	**20.8**	**1.8**	0.41 U
	10/3/2018	**3**	**26**	**2**	1 U
	12/2/2019	**1.8 J**	**42**	**3**	0.26 U
	1/7/2021	**1.6**	**64.4**	**3.4**	0.50 U
	12/3/2021	**0.79 J**	**73.6**	**3.1**	2 U
	12/9/2022	1.0 U	**66.4**	**3.2**	1.0 U

Table 3.3
Monitoring Well Groundwater Results for TCE, cDCE, tDCE, and VC
FDSA (SWMU 37)

Well (FDSA-)/Screened Interval [in feet bls]	Sample Date	TCE	cDCE	tDCE	VC
MW0037 [40-50]	6/4/2014	**170**	**140**	**7**	2 U
	9/29/2014	**89**	**84**	**4**	1 U
	12/28/2014	**13**	**29**	**1**	1 U
	3/24/2015	**9**	**56**	**5**	1 U
	7/10/2015	**11**	**60**	**5**	1 U
	10/2/2015	**2**	**13**	**2**	1 U
	12/30/2015	**2**	**15**	3 U	1 U
	3/23/2016	**1**	**13**	**2**	1 U
	7/29/2016	1 U	**12**	**1**	1 U
	10/22/2016	**1**	**12**	**2**	1 U
	12/29/2016	**1**	**7**	**1**	1 U
	3/17/2017	**1**	**5**	1 U	1 U
	6/9/2017	**1**	**15**	**1**	1 U
	12/11/2017	1 U	**3**	1 U	1 U
	6/21/2018	**0.67** I	0.28 U	**0.24** I	0.41 U
	10/3/2018	1 U	1 U	1 U	1 U
	12/5/2019	**2.5**	**5.2**	**0.61 J**	0.26 U
	12/3/2021	**0.93 J**	**7.6**	1 U	1 U
MW0038 [40-50]	6/4/2014	**140**	**27**	1 U	1 U
	9/29/2014	**160**	**25**	2 U	2 U
	12/28/2014	**260**	**32**	3 U	3 U
	3/24/2015	**400**	**57**	**3**	1 U
	7/10/2015	**170**	**29**	**2**	1 U
	9/29/2015	**130**	**19**	**1**	1 U
	12/30/2015	**31**	**5**	3 U	1 U
	3/23/2016	**80**	**19**	**2**	1 U
	7/29/2016	**54**	**24**	**2**	1 U
	10/22/2016	**18**	**12**	**2**	1 U
	12/29/2016	**8**	**18**	**2**	1 U
	3/17/2017	**20**	**23**	**2**	1 U
	6/9/2017	**11**	**12**	1 U	1 U
	12/11/2017	**2**	**3**	1 U	1 U
	6/21/2018	**2.1**	**6.3**	**0.38** I	0.41 U
	10/3/2018	**2**	**8**	1 U	1 U
	12/5/2019	**3.5**	**19**	**0.77 J**	0.26 U
	1/7/2021	**3.2**	**27.1**	**0.84**	0.50 U
	12/3/2021	**2.8**	**32.5**	1 U	1 U
	12/22/2022	**1.6**	**37.0**	**1.2**	0.50 U
MW0039 [40-50]	6/4/2014	**700**	**240**	**11**	3 U
	9/29/2014	**610**	**170**	**7**	5 U
	12/28/2014	**58**	**24**	3 U	3 U
	3/24/2015	**650**	**77**	**7**	3 U
	7/10/2015	**160**	**36**	**3**	1 U
	9/29/2015	**140**	**39**	**2**	1 U
	12/30/2015	**170**	**100**	**6**	1 U
	3/23/2016	**65**	**92**	**12**	1 U
	7/29/2016	**15**	**48**	**4**	1 U
	10/22/2016	**4**	**5**	1 U	1 U
	12/29/2016	**8**	**25**	**3**	1 U
	3/17/2017	**6**	**32**	**3**	1 U
	6/9/2017	**3**	**18**	**1**	1 U
	12/11/2017	**3**	**15**	**2**	1 U
	6/21/2018	**1.7**	**3**	**0.63** I	0.41 U
	10/3/2018	**2**	**4**	1 U	1 U
	12/5/2019	**3.4**	**18**	**1.4 J**	0.26 U
	1/7/2021	**2.7**	**19.8**	**1.2**	0.50 U
	12/3/2021	**1.8**	**18.1**	1 U	1 U
	12/22/2022	**1.6**	**24.3**	**1.1**	0.50 U

Table 3.3
Monitoring Well Groundwater Results for TCE, cDCE, tDCE, and VC
FDSA (SWMU 37)

Well (FDSA-)/Screened Interval [in feet bls]	Sample Date	TCE	cDCE	tDCE	VC
MW0040 [10-20]	6/3/2014	1 U	**19**	1 U	**7**
	9/29/2014	**410**	**13000**	**260**	**650**
	12/29/2014	**47**	**1600**	**49**	**190**
	3/20/2015	**4**	**120**	**9**	**6**
	7/9/2015	1 U	**81**	**14**	**4**
	10/2/2015	1 U	**35**	**6**	**1**
	12/29/2015	1 U	**23**	3 U	1 U
	3/23/2016	1 U	**5**	1 U	1 U
	7/28/2016	1 U	**15**	**3**	1 U
	10/22/2016	1 U	**21**	**4**	1 U
	12/28/2016	1 U	**19**	**4**	1 U
	6/8/2017	1 U	**13**	**1**	1 U
	12/7/2017	1 U	**35**	**5**	**2**
	10/2/2018	1 U	**5**	1 U	1 U
	12/2/2019	0.61 U	**30**	**4.6**	**1.1**
	1/6/2021	**3.7**	**29.4**	**3.2**	0.50 U
	12/3/2021	**5.8**	**26.1**	**2.3**	**2.1**
	12/9/2022	**3.0**	**20.7**	**1.8**	**3.7**
MW0041 [30-40]	6/4/2014	**4**	**450**	**86**	3 U
	9/29/2014	**51**	**410**	**60**	1 U
	7/9/2015	**1**	**27**	**5**	1 U
	7/27/2016	1 U	**3**	1 U	1 U
	12/28/2016	1 U	**4**	1 U	1 U
	6/8/2017	1 U	**6**	1 U	1 U
	12/7/2017	1 U	**10**	**1**	1 U
	10/2/2018	1 U	5	1 U	1 U
	12/2/2019	**0.87 J**	**4.3**	**0.95 J**	0.26 U
	12/3/2021	**0.57 J**	**2.8**	1 U	1 U
MW0042 [10-20]	5/30/2014	3 U	**260**	3 U	**120**
	9/30/2014	**22**	**52**	**6**	**3**
	12/29/2014	**5**	**7**	**1**	1 U
	3/20/2015	1 U	1 U	1 U	1 U
	7/8/2015	1 U	1 U	1 U	1 U
	10/1/2015	1 U	1 U	1 U	1 U
	12/29/2015	1 U	3 U	3 U	1 U
	3/22/2016	1 U	1 U	1 U	1 U
	7/27/2016	1 U	1 U	1 U	1 U
	12/28/2016	1 U	1 U	1 U	1 U
	6/7/2017	1 U	1 U	1 U	1 U
	12/8/2017	1 U	1 U	1 U	1 U
	10/2/2018	1 U	1 U	1 U	1 U
	12/3/2019	0.61 U	**0.51 J**	0.39 U	0.26 U
	12/3/2021	1 U	**0.53 J**	1 U	1 U
MW0043 [10-20]	6/4/2014	**4**	**6**	1 U	1 U
	9/30/2014	**7**	**5**	1 U	1 U
	7/9/2015	1 U	1 U	1 U	1 U
	7/27/2016	1 U	1 U	1 U	1 U
	12/28/2016	1 U	1 U	1 U	1 U
	6/8/2017	1 U	1 U	1 U	1 U
	12/7/2017	1 U	1 U	1 U	1 U
	10/3/2018	1 U	1 U	1 U	1 U
	12/3/2019	0.61 U	**0.45 J**	0.39 U	0.26 U
	12/3/2021	1 U	1 U	1 U	1 U

Table 3.3
Monitoring Well Groundwater Results for TCE, cDCE, tDCE, and VC
FDSA (SWMU 37)

Well (FDSA-)/Screened Interval [in feet bls]	Sample Date	TCE	cDCE	tDCE	VC
MW0044 [20-30]	6/4/2014	**1000**	**190**	**43**	**20**
	9/30/2014	**82**	**24**	**3**	1 U
	12/29/2014	**8**	**3**	1 U	1 U
	3/20/2015	**5**	1 U	1 U	1 U
	7/9/2015	**3**	1 U	1 U	1 U
	10/1/2015	**2**	1 U	1 U	1 U
	12/29/2015	**2**	3 U	3 U	1 U
	3/22/2016	**2**	1 U	1 U	1 U
	7/27/2016	**2**	1 U	1 U	1 U
	12/28/2016	**4**	1 U	1 U	1 U
	6/8/2017	**6**	1 U	1 U	1 U
	12/7/2017	**8**	1 U	1 U	1 U
	10/3/2018	**10**	1 U	1 U	1 U
	12/3/2019	**7.1**	**1.2**	0.39 U	0.26 U
	1/6/2021	**6.7**	**1.4**	0.30 U	0.50 U
	12/3/2021	**9.2**	**1.3**	1 U	1 U
	12/9/2022	**7.1**	**2.3**	0.50 U	0.50 U
MW0045 [20-30]	5/29/2014	**130**	**530**	**40**	2 U
	10/1/2014	**2**	**4**	1 U	1 U
	12/29/2014	1 U	**1**	1 U	1 U
	3/20/2015	**1**	1 U	1 U	1 U
	7/8/2015	**1**	1 U	1 U	1 U
	10/1/2015	1 U	1 U	1 U	1 U
	12/29/2015	1 U	3 U	3 U	1 U
	3/22/2016	1 U	1 U	1 U	1 U
	7/26/2016	**1**	1 U	1 U	1 U
	12/28/2016	**4**	**1**	1 U	1 U
	6/7/2017	**7**	**3**	1 U	1 U
	12/11/2017	**10**	**4**	1 U	1 U
	10/2/2018	**10**	**4**	1 U	1 U
	12/9/2019	**6.5**	**7**	**0.7 J**	0.26 U
	1/8/2021	**6.1**	**11.5**	**0.86 J**	0.50 U
	12/3/2021	**6.9**	**13.9**	**0.94 J**	1 U
	12/22/2022	**5.3**	**14.1**	**1.0**	0.50 U
MW0046 [30-40]	5/29/2014	1 U	**3**	1 U	1 U
	9/30/2014	1 U	1 U	1 U	1 U
	7/8/2015	1 U	1 U	1 U	1 U
	7/27/2016	1 U	1 U	1 U	1 U
	12/27/2016	1 U	1 U	1 U	1 U
	6/7/2017	1 U	1 U	1 U	1 U
	12/11/2017	1 U	1 U	1 U	1 U
	10/2/2018	1 U	1 U	1 U	1 U
	12/9/2019	0.61 U	**2**	0.39 U	0.26 U
	12/3/2021	1 U	**5**	1 U	1 U
MW0047 [10-20]	5/29/2014	**410**	**1600**	**300**	**18**
	10/2/2014	**3**	**10**	1 U	1 U
	7/7/2015	1 U	1 U	1 U	1 U
	7/27/2016	1 U	1 U	1 U	1 U
	12/23/2016	1 U	1 U	1 U	1 U
	6/7/2017	**1**	1 U	1 U	1 U
	12/11/2017	**2**	1 U	1 U	1 U
	10/2/2018	**4**	1 U	1 U	1 U
	12/3/2019	**2.5**	**0.72 J**	0.39 U	0.26 U
	1/8/2021	**3.6**	**1.5**	**0.25 J**	0.50 U
	12/2/2021	**5.6**	**2.1**	**0.38 J**	1 U
	12/8/2022	**4.5**	**1.1**	0.50 U	0.50 U

Table 3.3
Monitoring Well Groundwater Results for TCE, cDCE, tDCE, and VC
FDSA (SWMU 37)

Well (FDSA-)/Screened Interval [in feet bls]	Sample Date	TCE	cDCE	tDCE	VC
MW0048 [10-20]	5/29/2014	**5300**	**500**	40 U	40 U
	10/2/2014	**38**	**11**	1 U	1 U
	12/29/2014	**4**	1 U	1 U	1 U
	3/19/2015	**2**	1 U	1 U	1 U
	7/7/2015	**1**	1 U	1 U	1 U
	9/30/2015	**2**	1 U	1 U	1 U
	12/29/2015	1 U	3 U	3 U	1 U
	3/21/2016	1 U	1 U	1 U	1 U
	7/25/2016	**2**	1 U	1 U	1 U
	12/27/2016	**4**	1 U	1 U	1 U
	6/5/2017	**2**	1 U	1 U	1 U
	12/8/2017	**10**	**1**	1 U	1 U
	10/1/2018	**4**	1 U	1 U	1 U
	12/5/2019	**5.6**	**0.41 J**	0.39 U	0.26 U
	1/8/2021	**8.5**	**0.62 J**	0.50 U	0.50 U
	12/2/2021	**7.3**	**0.54 J**	1 U	1 U
	12/22/2022	**7.1**	0.50 U	0.50 U	0.50 U
MW0049 [20-30]	5/29/2014	**13**	**9**	**2 U**	**4**
	10/2/2014	1 U	1 U	1 U	1 U
	7/7/2015	1 U	1 U	1 U	1 U
	7/25/2016	1 U	1 U	1 U	1 U
	12/23/2016	1 U	1 U	1 U	1 U
	6/6/2017	1 U	1 U	1 U	1 U
	12/8/2017	**1**	1 U	1 U	1 U
	10/1/2018	**2**	1 U	1 U	1 U
	12/5/2019	**2.9**	**0.36 J**	0.39 U	0.26 U
	12/2/2021	**3**	**0.61 J**	1 U	1 U
MW0050 [20-30]	5/29/2014	**9**	**21**	**9**	**370 J**
	10/1/2014	**2**	**7**	**2**	**43**
	12/29/2014	1 U	1 U	1 U	1 U
	3/19/2015	1 U	1 U	1 U	1 U
	7/7/2015	1 U	1 U	1 U	1 U
	9/30/2015	1 U	1 U	1 U	1 U
	12/29/2015	1 U	3 U	3 U	1 U
	3/22/2016	1 U	1 U	1 U	1 U
	7/26/2016	1 U	1 U	1 U	1 U
	12/23/2016	**1**	1 U	1 U	1 U
	6/7/2017	**3**	1 U	1 U	1 U
	12/8/2017	**3**	**1**	1 U	1 U
	10/2/2018	**4**	**2**	1 U	1 U
	12/3/2019	**6.7**	**1.6**	0.39 U	0.26 U
	1/8/2021	**7**	**2.1**	**0.32 J**	0.50 U
	12/2/2021	**6.1**	**1.8**	1 U	1 U
	12/8/2022	**8.7**	**2.1**	0.50 U	0.50 U
MW0051 [20-30]	5/28/2014	**18**	**77**	**14**	**170**
	10/2/2014	1 U	**1**	1 U	**3**
	12/29/2014	1 U	1 U	1 U	1 U
	3/19/2015	1 U	1 U	1 U	**5**
	7/7/2015	1 U	1 U	1 U	**6**
	10/1/2015	1 U	1 U	1 U	**16**
	12/29/2015	1 U	3 U	3 U	1 U
	3/22/2016	1 U	1 U	1 U	1 U
	7/26/2016	1 U	1 U	1 U	1 U
	12/23/2016	1 U	**2**	1 U	**2**
	6/6/2017	1 U	**2**	1 U	**8**
	12/11/2017	1 U	**4**	1 U	**19**
	10/1/2018	1 U	**4**	1 U	**3**
	12/3/2019	**1.7 J**	**5.1**	**0.52 J**	**1.8**
	1/8/2021	**2**	**8.6**	**0.51 J**	0.50 U
	12/2/2021	**1.5**	**8.9**	1 U	1 U
	12/22/2022	**1.3**	**11.5**	**0.50 J**	0.50 U

Table 3.3
Monitoring Well Groundwater Results for TCE, cDCE, tDCE, and VC
FDSA (SWMU 37)

Well (FDSA-)/Screened Interval [in feet bls]	Sample Date	TCE	cDCE	tDCE	VC
MW0052 [10-20]	5/28/2014	**70**	**480**	**77**	**2**
	10/1/2014	1 U	**1**	1 U	1 U
	7/7/2015	1 U	1 U	1 U	1 U
	7/26/2016	1 U	1 U	1 U	1 U
	12/23/2016	**1**	1 U	1 U	1 U
	6/6/2017	**3**	1 U	1 U	1 U
	12/8/2017	**5**	1 U	1 U	1 U
	10/1/2018	**4**	1 U	1 U	1 U
	12/3/2019	**4.5**	**0.55 J**	0.39 U	0.26 U
	1/8/2021	**5.3**	**0.56 J**	0.50 U	0.50 U
	12/2/2021	**3.8**	**0.40 J**	1 U	1 U
	12/7/2022	**3.7**	0.50 U	0.50 U	0.50 U
MW0053 [10-20]	5/28/2014	1 U	**3**	1 U	**7**
	9/30/2014	1 U	**4**	1 U	1 U
	7/8/2015	1 U	1 U	1 U	1 U
	7/26/2016	1 U	1 U	1 U	1 U
	12/27/2016	1 U	1 U	1 U	1 U
	6/7/2017	1 U	1 U	1 U	1 U
	12/7/2017	1 U	1 U	1 U	1 U
	10/1/2018	1 U	1 U	1 U	1 U
	12/6/2019	0.61 U	0.32 U	0.39 U	0.26 U
MW0054 [10-20]	5/28/2014	1 U	**12**	1 U	1 U
	10/1/2014	1 U	1 U	1 U	1 U
	7/8/2015	1 U	1 U	1 U	1 U
	10/1/2015	1 U	1 U	1 U	1 U
	12/28/2015	1 U	3 U	3 U	1 U
	3/21/2016	1 U	1 U	1 U	1 U
	7/26/2016	1 U	1 U	1 U	1 U
	12/23/2016	1 U	**2**	1 U	1 U
	6/6/2017	1 U	**1**	1 U	1 U
	12/7/2017	1 U	**3**	1 U	1 U
	10/1/2018	1 U	**4**	1 U	1 U
	12/6/2019	0.61 U	**0.82 J**	0.39 U	0.26 U
	12/2/2021	1 U	1 U	1 U	1 U
MW0055 [20-30]	5/28/2014	**6**	**5**	**3**	**120**
	10/1/2014	1 U	**3**	1 U	**18**
	7/6/2015	1 U	**2**	1 U	**11**
	9/30/2015	1 U	**1**	1 U	**8**
	12/28/2015	1 U	3 U	3 U	**10**
	3/21/2016	1 U	1 U	1 U	1 U
	7/26/2016	1 U	1 U	1 U	**1**
	12/23/2016	1 U	**7**	**2**	**35**
	6/6/2017	**1**	**7**	**1**	**38**
	12/8/2017	1 U	**13**	**3**	**85**
	10/1/2018	1 U	**5**	**1**	**39**
	12/9/2019	0.61 U	**6.9**	**1.3 J**	**48**
	1/7/2021	0.50 U	**6.5**	**1.6**	**46.8**
	12/2/2021	1 U	**4.2**	**1.4**	**42.1**
	12/7/2022	0.50 U	**2.0**	**1.3**	0.50 U
MW0056 [10-20]	5/28/2014	**6**	**36**	**3**	**64**
	10/1/2014	1 U	1 U	1 U	1 U
	7/6/2015	1 U	1 U	1 U	1 U
	7/26/2016	1 U	1 U	1 U	1 U
	12/27/2016	1 U	1 U	1 U	1 U
	6/6/2017	1 U	1 U	1 U	1 U
	12/8/2017	**2**	1 U	1 U	1 U
	10/1/2018	**1**	1 U	1 U	1 U
	12/6/2019	**0.91 J**	**1.9**	0.39 U	**0.43 J**
	12/2/2021	**1.1**	**2**	1 U	1 U

Table 3.3
Monitoring Well Groundwater Results for TCE, cDCE, tDCE, and VC
FDSA (SWMU 37)

Well (FDSA-)/Screened Interval [in feet bls]	Sample Date	TCE	cDCE	tDCE	VC
MW0057 [20-30]	5/28/2014	**8**	**19**	**3**	**120**
	10/2/2014	**1**	**7**	**1**	**41**
	7/6/2015	1 U	1 U	1 U	**1**
	9/30/2015	1 U	1 U	1 U	**1**
	12/28/2015	1 U	3 U	3 U	1 U
	3/21/2016	1 U	1 U	1 U	1 U
	7/26/2016	1 U	1 U	1 U	**2**
	12/27/2016	1 U	**3**	1 U	**13**
	6/5/2017	1 U	**6**	1 U	**16**
	12/8/2017	1 U	**6**	1 U	**11**
	10/1/2018	1 U	**3**	1 U	**4**
	12/6/2019	0.61 U	**3.5**	0.39 U	**2.5**
	1/8/2021	0.50 U	**5.8**	**0.54 J**	**16.8**
	12/2/2021	1 U	**2.8**	**0.89 J**	1 U
	12/7/2022	**0.56 J**	**2.0**	**1.2**	0.50 U
MW0058 [10-20]	5/27/2014	**6**	**41**	**3**	**78**
	10/2/2014	1 U	**5**	1 U	1 U
	12/29/2014	1 U	1 U	1 U	1 U
	3/19/2015	1 U	1 U	1 U	1 U
	7/7/2015	1 U	1 U	1 U	1 U
	9/30/2015	1 U	1 U	1 U	1 U
	12/29/2015	1 U	3 U	3 U	1 U
	3/21/2016	1 U	1 U	1 U	1 U
	7/25/2016	1 U	1 U	1 U	1 U
	12/27/2016	1 U	1 U	1 U	1 U
	6/5/2017	1 U	1 U	1 U	1 U
	12/8/2017	**2**	1 U	1 U	1 U
	10/1/2018	**1**	**2**	1 U	**6**
	12/6/2019	**2.1**	**2.3**	0.39 U	**6**
	1/8/2021	**2.4**	**1.9**	**0.23 J**	**1.5**
	12/2/2021	**2.3**	**1.8**	1 U	**1.4**
	12/7/2022	**3.2**	**2.3**	0.50 U	**1.2**
MW0059 [10-20]	10/1/2014	1 U	**4**	1 U	1 U
	7/8/2015	1 U	**3**	1 U	1 U
	10/1/2015	1 U	**5**	1 U	1 U
	3/21/2016	1 U	**1**	1 U	1 U
	7/26/2016	1 U	**3**	1 U	1 U
	12/23/2016	1 U	**3**	1 U	1 U
	6/6/2017	1 U	**3**	1 U	1 U
	12/7/2017	1 U	**3**	1 U	1 U
	10/1/2018	**1**	**2**	1 U	**6**
	12/9/2019	0.61 U	**10**	**0.9 J**	0.26 U
	1/7/2021	0.50 U	**16**	**0.82 J**	0.50 U
	12/2/2021	**3.1**	**21**	**0.87 J**	1 U
	12/7/2022	**555**	**198**	**3.4**	**0.70 J**
	1/13/2023	**737**	**250**	**3.4 J**	5.0 U
MW0061 [2-12]	4/1/2021	**27.8**	**61.1**	**2.9**	**17.0**
	7/8/2021	**5.2**	**7.6**	**1.0**	0.50 U
	10/5/2021	**6.8**	**12.1**	**1.6**	1 U
	12/3/2021	**5.3**	**11.9**	**1.5**	1 U
	3/10/2022	**5.1**	**16.7**	**1.8**	1 U
	6/14/2022	**6.1**	**16.0**	**1.6**	0.50 U
	12/22/2022	**5.8**	**24.9**	**2.6**	0.50 U
	6/8/2023	**5.9**	**21.9**	**2.8**	0.50 U

Notes:
Concentrations in micrograms per liter (µg/L).
bls = below land surface
FDEP = Florida Department of Environmental Protection
FDSA = Former Drum Storage Area
SWMU = solid waste management unit
TCE = trichloroethene
tDCE = trans-1,2-dichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
Bolded results exceed method detection limits (MDLs).
Yellow shaded results are greater than or equal to Groundwater Cleanup Target Levels.
TCE = 3 µg/L, cDCE = 70 µg/L, tDCE = 100 µg/L, and VC = 1 µg/L
Blue shaded results are greater than or equal to Natural Attenuation Default Concentrations.
TCE = 300 µg/L, cDCE = 700 µg/L, tDCE = 1000 µg/L, and VC = 100 µg/L
FDEP rounding guidance is applied to results in this report. A numerical result above a screening value will not be marked an exceedance if the rounded result meets the screening value.
I = Reported value is between MDL and practical quantitation limit.
J = Estimated concentration.
U = Not detected at or above MDL (associated value).

Table 3.4
Mann-Kendall Trend Analysis Summary
FDSA (SWMU 37)

Well ID (FDSA-)	Screened Interval (ft bls)	*TCE*	*cDCE*	*tDCE*	*VC*
Sample Depths 0 to 10 ft bls					
MW14S2	2-12	**No Trend**	--	--	--
MW15S2	1-11	**No Trend**	--	--	--
MW16S2	2-12	**No Trend**	--	--	--
MW0061	2-12	**Stable**	--	--	--
Sample Depths 10 to 20 ft bls					
MW03S2	8-18	--	--	--	**No Trend**
MW025S	5-15	**Increasing**	--	--	--
MW027S	5-15	**Probably Decreasing**	--	--	--
MW0029	10-20	**No Trend**	--	--	--
MW0031	5-15	--	--	--	--
MW0040	10-20	--	--	--	--
MW0047	10-20	**Probably Increasing**	--	--	--
MW0048	10-20	**No Trend**	--	--	--
MW0052	10-20	**No Trend**	--	--	--
MW0058	10-20	--	--	--	--
MW0059	10-20	**No Trend**	**Increasing**	--	--
Sample Depths 20 to 30 ft bls					
MW0033	20-30	**Decreasing**	--	--	--
MW0034	20-30	--	--	--	--
MW0044	20-30	**No Trend**	--	--	--
MW0045	20-30	**Probably Increasing**	--	--	--
MW0050	20-30	**Increasing**	--	--	--
MW0051	20-30	--	--	--	--
MW0055	20-30	--	--	--	--
MW0057	20-30	--	--	--	--
Sample Depths 40 to 50 ft bls					
MW17D1	42-47	--	**Increasing**	--	--
MW0035	40-50	--	--	--	--
MW0036	40-50	--	--	--	--
MW0038	40-50	--	--	--	--

Notes

-- indicates Mann-Kendall (M-K) trend analysis was not conducted because analyte detected below the GCTL.

Definitions and Acronyms

cDCE = cis-1,2-dichloroethene
FDSA = Former Drum Storage Area
ft bls = feet below land surface
GCTL = groundwater cleanup target level
ID = identification
TCE = trichloroethene
tDCE = trans-1,2-dichloroethene
VC = vinyl chloride

Table 3.5
2023-2024 Interim Groundwater Monitoring Wells
FDSA (SWMU 37)

Well ID (FDSA-)	Sampling Frequency
MW02I2 [33-38]	Biennial
MW03S2 [8-18]	Annual
MW03I1 [21-26]	Biennial
MW08S2 [3-13]	Biennial
MW09S2 [3-13]	Biennial
MW14S2 [2-12]	Annual
MW15S2 [1-11]	Annual
MW16S2 [2-12]	Annual
MW17D1 [42-47]	Annual
MW023S [10-20]	Biennial
MW025S [5-15]	Annual
MW027S [5-15]	Annual
MW0029 [10-20]	Annual
MW0031 [5-15]	Annual
MW0032 [20-30]	Biennial
MW0033 [20-30]	Annual
MW0034 [20-30]	Annual
MW0035 [40-50]	Annual
MW0036 [40-50]	Annual
MW0037 [40-50]	Biennial
MW0038 [40-50]	Annual

Well ID (FDSA-)	Sampling Frequency
MW0039 [40-50]	Annual
MW0040 [10-20]	Annual
MW0041 [30-40]	Biennial
MW0042 [10-20]	Biennial
MW0043 [10-20]	Biennial
MW0044 [20-30]	Annual
MW0045 [20-30]	Annual
MW0046 [30-40]	Biennial
MW0047 [10-20]	Annual
MW0048 [10-20]	Annual
MW0049 [20-30]	Biennial
MW0050 [20-30]	Annual
MW0051 [20-30]	Annual
MW0052 [10-20]	Annual
MW0054 [10-20]	Biennial
MW0055 [20-30]	Annual
MW0056 [10-20]	Biennial
MW0057 [20-30]	Annual
MW0058 [10-20]	Annual
MW0059 [10-20]	Annual
MW0061 [2-12]	Semi-Annual

Notes:

FDSA = Former Drum Storage Area

SWMU = solid waste management unit

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FIGURES

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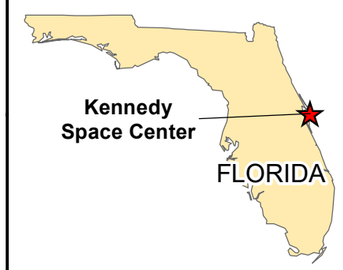
Figure 1.1
Site Location



Legend

SWMU Boundary

General Location



Note:
FSRA=Fluid Servicing Road Area
KSC=Kennedy Space Center
PSBA=Propellants Storage Building Area
SWMU=Solid Waste Management Unit

\\srv-gst-01\hglgis\KSC_NS1002\FSRA\IGWMR_2022-23
(1-01)SWMU_Locations.mxd
1/19/2024 TB
Source: HGL,TetraTech
ArcGIS Online Imagery

Figure 2.1
PSBA
Interim Groundwater Monitoring Wells



Legend

- Monitoring Well
- PSBA-MW0019 Well Sampled Annually
- PSBA-MW0020 Well Sampled Biennially
- PSBA-MW0004 Well not Sampled

Notes:
FSRA=Fluid Servicing Road Area
KSC=Kennedy Space Center
PSBA=Propellants Storage Building Area
SWMU=Solid Waste Management Unit

\\srv-gst-01\hglgis\KSC_NS1002\FSRA\IGWMR_2022-23\(2-01)PSBA_LTM_Wells.mxd
1/19/2024 TB
Source: HGL,
ArcGIS Online Imagery

Figure 2.2
PSBA
Groundwater Elevation Data
30-40 ft bgs



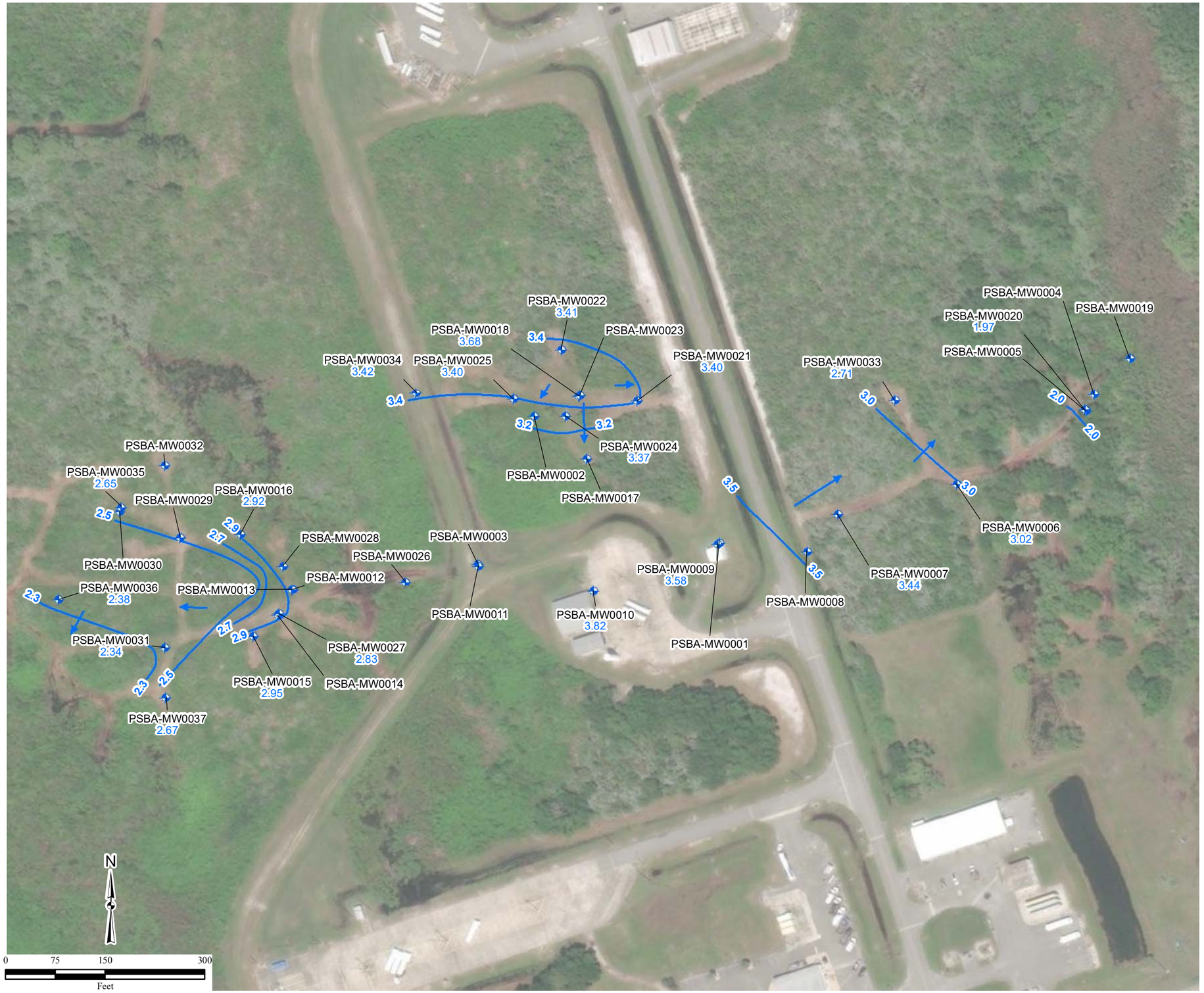
Legend

- Monitoring Well
- PSBA-MW0019 — Sample/Well Identification
- 3.19 — Groundwater Elevation (ft NGVD29) December 2022
- Groundwater Flow Direction
- —3.2— Groundwater Elevation Contour (ft bgs, NGVD29, dashed where inferred)

Notes:
Elevation is referenced to the National Geodetic Vertical Datum of 1929 (NGVD29).
FSRA=Fluid Servicing Road Area
ft bgs=feet below ground surface
IGWM=Interim Groundwater Monitoring
KSC=Kennedy Space Center
NM=not measured
PSBA=Propellants Storage Building Area
SWMU=Solid Waste Management Unit

\\srv-gst-01\hglgis\KSC_NS1002\FSRA\IGWMR_2022-23\(2-02)PSBA_GWE_30-40_2022.mxd
1/19/2024 TB
Source: HGL, ArcGIS Online Imagery

Figure 2.3
PSBA
Groundwater Elevation Data
40-50 ft bgs



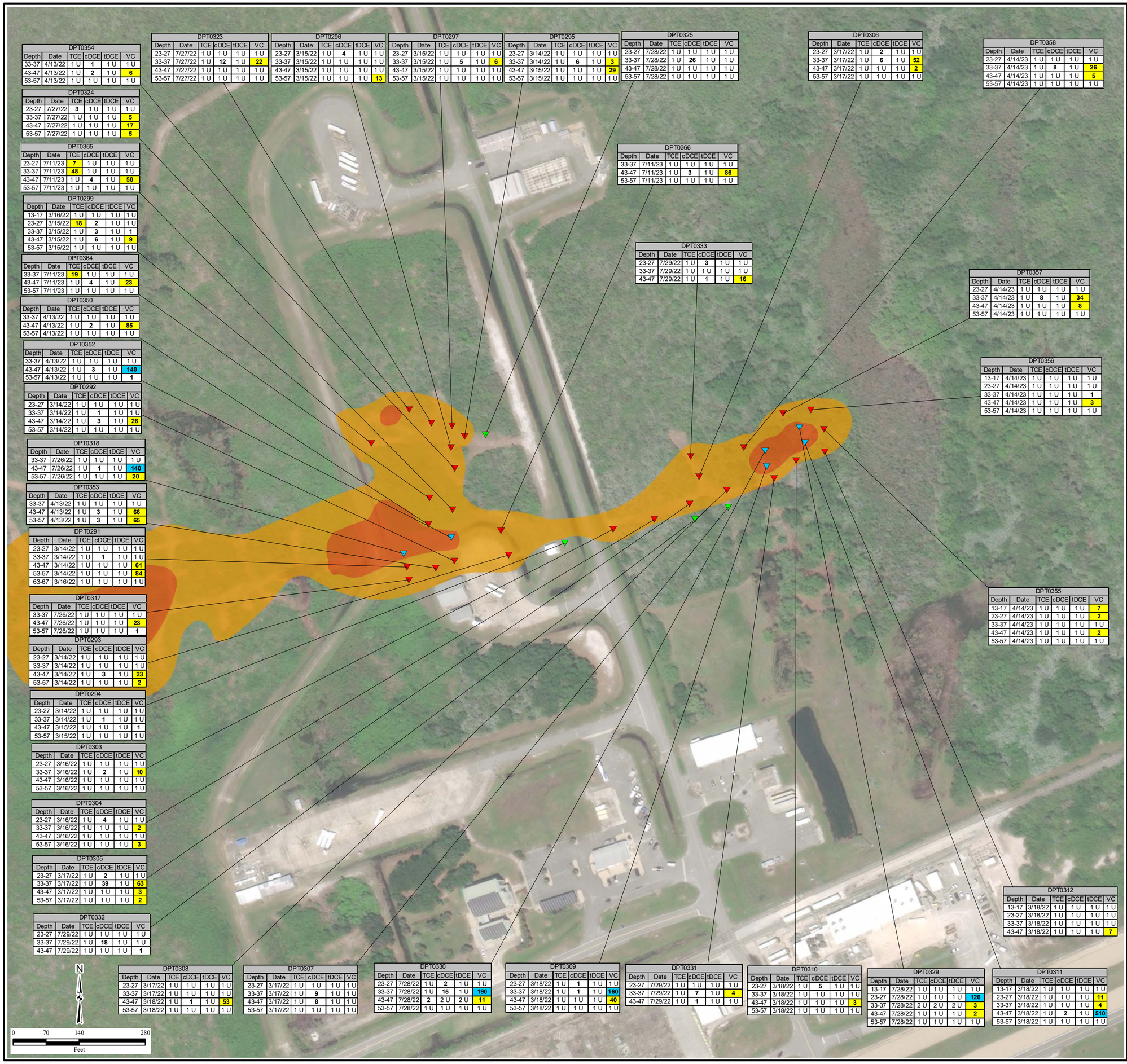
Legend

- Monitoring Well
- PSBA-MW0019 — Sample/Well Identification
- 3.40 — Groundwater Elevation (ft NGVD29) December 2022
- Groundwater Flow Direction
- 3.0 — Groundwater Elevation Contour (ft bgs, NGVD29, dashed where inferred)

Notes:
Elevation is referenced to the National Geodetic Vertical Datum of 1929 (NGVD29).
*=not used in contouring
ft bgs=feet below ground surface
FSRA=Fluid Servicing Road Area
IGWM=Interim Groundwater Monitoring
KSC=Kennedy Space Center
PSBA=Propellants Storage Building Area
SWMU=Solid Waste Management Unit

\\srv-gst-01\hglgis\KSC_NS1002\FSRA\IGWMR_2022-23\(2-03)PSBA_GWE_40-50_2022.mxd
1/19/2024 TB
Source: HGL,
ArcGIS Online Imagery

Figure 2.4a
PSBA
East DPT Sampling Locations and Analytical Results



DPT0354

Depth	Date	TCE	cDCE	tDCE	VC
33-37	4/13/22	1 U	**1**	1 U	1 U
43-47	4/13/22	1 U	**2**	1 U	**6**
53-57	4/13/22	1 U	1 U	1 U	1 U

DPT0324

Depth	Date	TCE	cDCE	tDCE	VC
23-27	7/27/22	**3**	1 U	1 U	1 U
33-37	7/27/22	1 U	1 U	1 U	**5**
43-47	7/27/22	1 U	1 U	1 U	**17**
53-57	7/27/22	1 U	1 U	1 U	**5**

DPT0365

Depth	Date	TCE	cDCE	tDCE	VC
23-27	7/11/23	**7**	1 U	1 U	1 U
33-37	7/11/23	**48**	1 U	1 U	1 U
43-47	7/11/23	1 U	**4**	1 U	**50**
53-57	7/11/23	1 U	1 U	1 U	1 U

DPT0299

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/16/22	1 U	1 U	1 U	1 U
23-27	3/15/22	**18**	**2**	1 U	1 U
33-37	3/15/22	1 U	**3**	1 U	**1**
43-47	3/15/22	1 U	**6**	1 U	**9**
53-57	3/15/22	1 U	1 U	1 U	1 U

DPT0364

Depth	Date	TCE	cDCE	tDCE	VC
33-37	7/11/23	**19**	1 U	1 U	1 U
43-47	7/11/23	1 U	**4**	1 U	**23**
53-57	7/11/23	1 U	1 U	1 U	1 U

DPT0350

Depth	Date	TCE	cDCE	tDCE	VC
33-37	4/13/22	1 U	1 U	1 U	1 U
43-47	4/13/22	1 U	**2**	1 U	**85**
53-57	4/13/22	1 U	1 U	1 U	1 U

DPT0352

Depth	Date	TCE	cDCE	tDCE	VC
33-37	4/13/22	1 U	1 U	1 U	1 U
43-47	4/13/22	1 U	**3**	1 U	**140**
53-57	4/13/22	1 U	1 U	1 U	**1**

DPT0292

Depth	Date	TCE	cDCE	tDCE	VC
23-27	3/14/22	1 U	1 U	1 U	1 U
33-37	3/14/22	1 U	**1**	1 U	1 U
43-47	3/14/22	1 U	**3**	1 U	**26**
53-57	3/14/22	1 U	1 U	1 U	1 U

DPT0318

Depth	Date	TCE	cDCE	tDCE	VC
33-37	7/26/22	1 U	1 U	1 U	1 U
43-47	7/26/22	1 U	**1**	1 U	**140**
53-57	7/26/22	1 U	1 U	1 U	**20**

DPT0353

Depth	Date	TCE	cDCE	tDCE	VC
33-37	4/13/22	1 U	1 U	1 U	1 U
43-47	4/13/22	1 U	**3**	1 U	**66**
53-57	4/13/22	1 U	**3**	1 U	**65**

DPT0291

Depth	Date	TCE	cDCE	tDCE	VC
23-27	3/14/22	1 U	1 U	1 U	1 U
33-37	3/14/22	1 U	**1**	1 U	1 U
43-47	3/14/22	1 U	1 U	1 U	**61**
53-57	3/14/22	1 U	1 U	1 U	**84**
63-67	3/16/22	1 U	1 U	1 U	1 U

DPT0317

Depth	Date	TCE	cDCE	tDCE	VC
33-37	7/26/22	1 U	1 U	1 U	1 U
43-47	7/26/22	1 U	1 U	1 U	**23**
53-57	7/26/22	1 U	1 U	1 U	**1**

DPT0293

Depth	Date	TCE	cDCE	tDCE	VC
23-27	3/14/22	1 U	1 U	1 U	1 U
33-37	3/14/22	1 U	1 U	1 U	1 U
43-47	3/14/22	1 U	**3**	1 U	**23**
53-57	3/14/22	1 U	1 U	1 U	**2**

DPT0294

Depth	Date	TCE	cDCE	tDCE	VC
23-27	3/14/22	1 U	1 U	1 U	1 U
33-37	3/14/22	1 U	**1**	1 U	1 U
43-47	3/15/22	1 U	1 U	1 U	**1**
53-57	3/15/22	1 U	1 U	1 U	1 U

DPT0303

Depth	Date	TCE	cDCE	tDCE	VC
23-27	3/16/22	1 U	1 U	1 U	1 U
33-37	3/16/22	1 U	**2**	1 U	**10**
43-47	3/16/22	1 U	1 U	1 U	1 U
53-57	3/16/22	1 U	1 U	1 U	1 U

DPT0304

Depth	Date	TCE	cDCE	tDCE	VC
23-27	3/16/22	1 U	**4**	1 U	1 U
33-37	3/16/22	1 U	1 U	1 U	**2**
43-47	3/16/22	1 U	1 U	1 U	1 U
53-57	3/16/22	1 U	1 U	1 U	**3**

DPT0305

Depth	Date	TCE	cDCE	tDCE	VC
23-27	3/17/22	1 U	**2**	1 U	1 U
33-37	3/17/22	1 U	**39**	1 U	**63**
43-47	3/17/22	1 U	1 U	1 U	**3**
53-57	3/17/22	1 U	1 U	1 U	**2**

DPT0332

Depth	Date	TCE	cDCE	tDCE	VC
23-27	7/29/22	1 U	1 U	1 U	1 U
33-37	7/29/22	1 U	**18**	1 U	1 U
43-47	7/29/22	1 U	1 U	1 U	**1**

DPT0323

Depth	Date	TCE	cDCE	tDCE	VC
23-27	7/27/22	1 U	1 U	1 U	1 U
33-37	7/27/22	1 U	**12**	1 U	**22**
43-47	7/27/22	1 U	1 U	1 U	1 U
53-57	7/27/22	1 U	1 U	1 U	1 U

DPT0296

Depth	Date	TCE	cDCE	tDCE	VC
23-27	3/15/22	1 U	**4**	1 U	1 U
33-37	3/15/22	1 U	1 U	1 U	1 U
43-47	3/15/22	1 U	1 U	1 U	1 U
53-57	3/15/22	1 U	1 U	1 U	**13**

DPT0297

Depth	Date	TCE	cDCE	tDCE	VC
23-27	3/15/22	1 U	1 U	1 U	1 U
33-37	3/15/22	1 U	**5**	1 U	**6**
43-47	3/15/22	1 U	1 U	1 U	1 U
53-57	3/15/22	1 U	1 U	1 U	1 U

DPT0295

Depth	Date	TCE	cDCE	tDCE	VC
23-27	3/14/22	1 U	1 U	1 U	1 U
33-37	3/14/22	1 U	**6**	1 U	**3**
43-47	3/15/22	1 U	1 U	1 U	**29**
53-57	3/15/22	1 U	1 U	1 U	1 U

DPT0325

Depth	Date	TCE	cDCE	tDCE	VC
23-27	7/28/22	1 U	1 U	1 U	1 U
33-37	7/28/22	1 U	**26**	1 U	1 U
43-47	7/28/22	1 U	1 U	1 U	1 U
53-57	7/28/22	1 U	1 U	1 U	1 U

DPT0366

Depth	Date	TCE	cDCE	tDCE	VC
33-37	7/11/23	1 U	1 U	1 U	1 U
43-47	7/11/23	1 U	**3**	1 U	**86**
53-57	7/11/23	1 U	1 U	1 U	1 U

DPT0333

Depth	Date	TCE	cDCE	tDCE	VC
23-27	7/29/22	1 U	**3**	1 U	1 U
33-37	7/29/22	1 U	1 U	1 U	1 U
43-47	7/29/22	1 U	**1**	1 U	**16**

DPT0306

Depth	Date	TCE	cDCE	tDCE	VC
23-27	3/17/22	1 U	**2**	1 U	1 U
33-37	3/17/22	1 U	**6**	1 U	**52**
43-47	3/17/22	1 U	1 U	1 U	**2**
53-57	3/17/22	1 U	1 U	1 U	1 U

DPT0358

Depth	Date	TCE	cDCE	tDCE	VC
23-27	4/14/23	1 U	1 U	1 U	1 U
33-37	4/14/23	1 U	**8**	1 U	**26**
43-47	4/14/23	1 U	1 U	1 U	**5**
53-57	4/14/23	1 U	1 U	1 U	1 U

DPT0357

Depth	Date	TCE	cDCE	tDCE	VC
23-27	4/14/23	1 U	1 U	1 U	1 U
33-37	4/14/23	1 U	**8**	1 U	**34**
43-47	4/14/23	1 U	1 U	1 U	**8**
53-57	4/14/23	1 U	1 U	1 U	1 U

DPT0356

Depth	Date	TCE	cDCE	tDCE	VC
13-17	4/14/23	1 U	1 U	1 U	1 U
23-27	4/14/23	1 U	1 U	1 U	1 U
33-37	4/14/23	1 U	1 U	1 U	**1**
43-47	4/14/23	1 U	1 U	1 U	**3**
53-57	4/14/23	1 U	1 U	1 U	1 U

DPT0355

Depth	Date	TCE	cDCE	tDCE	VC
13-17	4/14/23	1 U	1 U	1 U	**7**
23-27	4/14/23	1 U	1 U	1 U	**2**
33-37	4/14/23	1 U	1 U	1 U	1 U
43-47	4/14/23	1 U	1 U	1 U	**2**
53-57	4/14/23	1 U	1 U	1 U	1 U

DPT0312

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/18/22	1 U	1 U	1 U	1 U
23-27	3/18/22	1 U	1 U	1 U	1 U
33-37	3/18/22	1 U	1 U	1 U	1 U
43-47	3/18/22	1 U	1 U	1 U	**7**

DPT0308

Depth	Date	TCE	cDCE	tDCE	VC
23-27	3/17/22	1 U	1 U	1 U	1 U
33-37	3/17/22	1 U	1 U	1 U	1 U
43-47	3/18/22	1 U	**1**	1 U	**53**
53-57	3/18/22	1 U	1 U	1 U	1 U

DPT0307

Depth	Date	TCE	cDCE	tDCE	VC
23-27	3/17/22	1 U	1 U	1 U	1 U
33-37	3/17/22	1 U	**9**	1 U	1 U
43-47	3/17/22	1 U	**8**	1 U	1 U
53-57	3/17/22	1 U	1 U	1 U	1 U

DPT0330

Depth	Date	TCE	cDCE	tDCE	VC
23-27	7/28/22	1 U	**2**	1 U	1 U
33-37	7/28/22	1 U	**15**	1 U	**190**
43-47	7/28/22	**2**	2 U	2 U	**11**
53-57	7/28/22	1 U	1 U	1 U	1 U

DPT0309

Depth	Date	TCE	cDCE	tDCE	VC
23-27	3/18/22	1 U	**1**	1 U	1 U
33-37	3/18/22	1 U	**1**	1 U	**160**
43-47	3/18/22	1 U	1 U	1 U	**40**
53-57	3/18/22	1 U	1 U	1 U	1 U

DPT0331

Depth	Date	TCE	cDCE	tDCE	VC
23-27	7/29/22	1 U	1 U	1 U	1 U
33-37	7/29/22	1 U	**7**	1 U	**4**
43-47	7/29/22	1 U	**1**	1 U	1 U

DPT0310

Depth	Date	TCE	cDCE	tDCE	VC
23-27	3/18/22	1 U	**5**	1 U	1 U
33-37	3/18/22	1 U	1 U	1 U	1 U
43-47	3/18/22	1 U	1 U	1 U	**3**
53-57	3/18/22	1 U	1 U	1 U	1 U

DPT0329

Depth	Date	TCE	cDCE	tDCE	VC
13-17	7/28/22	1 U	1 U	1 U	1 U
23-27	7/28/22	1 U	1 U	1 U	**120**
33-37	7/28/22	2 U	2 U	2 U	**3**
43-47	7/28/22	1 U	1 U	1 U	**2**
53-57	7/28/22	1 U	1 U	1 U	1 U

DPT0311

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/18/22	1 U	1 U	1 U	1 U
23-27	3/18/22	1 U	1 U	1 U	**11**
33-37	3/18/22	1 U	1 U	1 U	**4**
43-47	3/18/22	1 U	**2**	1 U	**510**
53-57	3/18/22	1 U	1 U	1 U	1 U

N

0 70 140 280
Feet

Legend

- DPT Location Below GCTLs
- DPT Location Above GCTLs
- DPT Location Above NADCs

2022 Overall Plume

- Low Concentration Plume (>GCTLs)
- High Concentration Plume (>NADCs)

Notes:
Yellow=above GCTLs
Blue=above NADCs

DPT=direct push technology
FSRA=Fluid Servicing Road Area
GCTLs=groundwater cleanup target levels
KSC=Kennedy Space Center
NADC=natural attenuation default concentration
PSBA=Propellants Storage Building Area
SWMU=Solid Waste Management Unit

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3/21/2024 TB
Source: HGL,
ArcGIS Online Imagery

Figure 2.4b
PSBA
Central and West
DPT Sampling Locations and Analytical Results



DPT0282

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/10/22	1 U	1 U	1 U	1 U
23-27	3/10/22	1 U	1 U	1 U	1 U
33-37	3/10/22	1 U	1 U	1 U	1 U
43-47	3/10/22	1 U	1 U	1 U	1 U

DPT0280

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/10/22	1 U	1 U	1 U	1 U
23-27	3/10/22	1 U	1 U	1	2
33-37	3/10/22	1 U	1 U	1 U	9
43-47	3/10/22	1 U	1 U	1 U	4
53-57	3/10/22	1 U	1 U	1 U	1 U

DPT0278

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/9/22	1 U	1 U	1 U	1 U
23-27	3/9/22	1 U	1 U	2	34
33-37	3/9/22	1 U	1 U	1 U	5
43-47	3/9/22	1 U	1 U	1 U	190
53-57	7/26/22	1 U	1 U	1 U	1 U

DPT0301

Depth	Date	TCE	cDCE	tDCE	VC
23-27	3/16/22	1 U	1 U	1 U	1 U
33-37	3/16/22	1 U	1 U	1 U	1 U
43-47	3/16/22	1 U	1	1 U	5
53-57	3/16/22	1 U	1 U	1 U	1 U

DPT0343

Depth	Date	TCE	cDCE	tDCE	VC
23-27	4/11/23	1 U	5	1 U	1 U
33-37	4/11/23	1 U	1 U	1 U	4
43-47	4/11/23	1 U	1 U	1 U	12
53-57	4/11/23	1 U	1 U	1 U	1 U

DPT0271

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/8/22	1 U	1 U	1 U	1 U
23-27	3/8/22	1 U	1 U	1 U	1 U
33-37	3/8/22	1 U	1 U	1 U	1 U
43-47	3/8/22	1 U	1 U	1 U	1 U

DPT0300

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/18/22	1 U	1 U	1 U	1 U
23-27	3/16/22	7	1 U	1 U	1 U
33-37	3/16/22	1 U	13	1 U	2
43-47	3/16/22	1 U	4	1 U	13
53-57	3/16/22	1 U	1 U	1 U	1 U

DPT0322

Depth	Date	TCE	cDCE	tDCE	VC
23-27	7/27/22	1 U	1 U	1 U	1 U
33-37	7/27/22	1 U	1 U	1 U	1 U
43-47	7/27/22	1 U	1 U	1 U	2
53-57	7/27/22	1 U	1 U	1 U	1 U

DPT0277

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/9/22	1 U	1 U	1 U	1 U
23-27	3/9/22	1 U	120	1 U	4
33-37	3/9/22	1 U	1 U	1 U	8
43-47	3/9/22	1 U	1 U	1 U	82
53-57	7/26/22	1 U	1 U	1 U	1 U

DPT0320

Depth	Date	TCE	cDCE	tDCE	VC
13-17	7/27/22	1 U	1 U	1 U	1 U
23-27	7/27/22	1 U	1 U	1 U	1 U
33-37	7/27/22	1 U	1 U	1 U	1 U
43-47	7/27/22	1 U	1 U	1 U	2
53-57	7/27/22	1 U	1 U	1 U	1 U

DPT0272

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/8/22	1 U	1 U	1 U	1 U
23-27	3/8/22	1 U	1 U	1 U	1 U
33-37	3/8/22	1 U	1 U	1 U	1 U
43-47	3/8/22	1 U	1 U	1 U	1 U

DPT0273

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/8/22	1 U	1 U	1 U	1 U
23-27	3/8/22	1 U	1 U	1 U	1 U
33-37	3/8/22	1 U	1 U	1 U	9
43-47	3/8/22	1 U	1 U	1 U	1 U
53-57	3/8/22	1 U	1 U	1 U	1 U

DPT0274

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/8/22	1 U	1 U	1 U	1 U
23-27	3/8/22	1 U	1 U	1 U	1 U
33-37	3/8/22	1 U	1 U	1 U	3
43-47	3/8/22	1 U	1 U	1 U	1 U

DPT0276

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/9/22	1 U	1 U	1 U	1 U
23-27	3/9/22	1 U	13	1 U	46
33-37	3/9/22	1 U	1 U	1 U	75
43-47	3/9/22	1 U	1 U	1 U	1 U

DPT0275

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/9/22	1 U	1 U	1 U	1 U
23-27	3/9/22	1 U	1 U	1 U	30
33-37	3/9/22	1 U	1 U	1 U	15
43-47	3/9/22	1 U	1 U	1 U	1 U

DPT0339

Depth	Date	TCE	cDCE	tDCE	VC
13-17	4/10/23	1 U	1 U	1 U	7
23-27	4/11/23	1 U	1 U	1 U	36
33-37	4/11/23	1 U	1 U	1 U	1 U
43-47	4/11/23	1 U	1 U	1 U	1 U

DPT0340

Depth	Date	TCE	cDCE	tDCE	VC
23-27	4/11/23	1 U	1 U	1 U	1
33-37	4/11/23	1 U	1 U	1 U	44
43-47	4/11/23	1 U	1 U	1 U	110
53-57	4/11/23	1 U	1 U	1 U	1 U

DPT0316

Depth	Date	TCE	cDCE	tDCE	VC
13-17	7/26/22	1 U	1 U	1 U	1
23-27	7/26/22	1 U	1 U	1 U	14
33-37	7/26/22	1 U	1 U	1 U	15
43-47	7/26/22	1 U	1 U	1 U	1 U

DPT0338

Depth	Date	TCE	cDCE	tDCE	VC
13 to	4/10/23	1 U	1 U	1 U	7
23 to	4/10/23	1 U	1 U	1 U	37
33 to	4/10/23	1 U	1 U	1 U	4
43 to	4/10/23	1 U	1 U	1 U	1 U

DPT0270

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/7/22	1 U	1 U	1 U	1 U
23-27	3/7/22	1 U	1 U	1 U	6
33-37	3/7/22	2	2	2	55
43-47	3/7/22	1 U	1 U	1 U	1 U

DPT0337

Depth	Date	TCE	cDCE	tDCE	VC
13-17	4/10/23	1 U	1 U	1 U	1 U
23-27	4/10/23	1 U	1 U	1 U	1
33-37	4/10/23	1 U	1 U	1 U	11
43-47	4/10/23	1 U	1 U	1 U	1 U

DPT0341

Depth	Date	TCE	cDCE	tDCE	VC
13-17	4/11/23	1 U	1 U	1 U	1 U
23-27	4/11/23	1 U	1 U	1 U	7
33-37	4/11/23	1 U	1 U	1 U	570
43-47	4/11/23	1 U	1 U	1 U	1

DPT0268

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/7/22	1 U	1 U	1 U	22
23-27	3/7/22	1 U	1 U	1 U	9
33-37	3/7/22	1 U	1 U	1 U	3
43-47	3/7/22	1 U	1 U	1 U	1 U

DPT0269

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/7/22	1 U	1 U	1 U	1 U
23-27	3/7/22	1 U	1 U	1 U	8
33-37	3/7/22	1 U	1 U	1 U	400
43-47	3/7/22	1 U	1 U	1 U	1 U

DPT0342

Depth	Date	TCE	cDCE	tDCE	VC
3-7	4/11/23	1 U	1 U	1 U	1 U
13-17	4/11/23	1 U	1 U	1 U	36
23-27	4/11/23	1 U	1 U	1 U	36
33-37	4/11/23	1 U	1 U	1 U	80
43-47	4/11/23	1 U	1 U	1 U	1 U

DPT0267

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/7/22	1 U	1 U	1 U	23
23-27	3/7/22	1 U	1 U	1 U	10
33-37	3/7/22	1 U	1 U	1 U	3
43-47	3/7/22	1 U	1 U	1 U	1 U

DPT0266

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/7/22	1 U	1 U	1 U	6
23-27	3/7/22	1 U	1 U	1 U	3
33-37	3/7/22	1 U	1 U	1 U	1 U
43-47	3/7/22	1 U	1 U	1 U	1 U

DPT0284

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/10/22	1 U	1 U	1 U	1 U
23-27	3/10/22	1 U	1 U	1 U	2
33-37	3/10/22	1 U	1 U	1 U	120
43-47	3/10/22	1 U	1 U	1 U	6

DPT0283

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/10/22	1 U	1 U	1 U	1 U
23-27	3/10/22	1 U	1 U	1 U	1 U
33-37	3/10/22	1 U	1 U	1 U	300
3-37-DU	3/10/22	1 U	1 U	1 U	320
43-47	3/10/22	1 U	1 U	1 U	110
53-57	3/10/22	1 U	1 U	1 U	1 U

DPT0285

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/11/22	1 U	1 U	1 U	1 U
23-27	3/11/22	1 U	1	1 U	17
33-37	3/11/22	1 U	1 U	1 U	15
43-47	3/11/22	1 U	1 U	1 U	1 U
53-57	3/11/22	1 U	1 U	1 U	1 U

DPT0315

Depth	Date	TCE	cDCE	tDCE	VC
13-17	7/25/22	1 U	1 U	1 U	1 U
23-27	7/25/22	1 U	1 U	1 U	10
33-37	7/25/22	1 U	1 U	1 U	3
43-47	7/25/22	1 U	1 U	1 U	1 U
53-57	7/25/22	1 U	1 U	1 U	1 U

DPT0286

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/11/22	1 U	1 U	1 U	1 U
23-27	3/11/22	1 U	1 U	1 U	6
33-37	3/11/22	1 U	1 U	1 U	4
43-47	3/11/22	1 U	1 U	1 U	5
53-57	3/11/22	1 U	1 U	1 U	1 U

DPT0281

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/10/22	1 U	1 U	1 U	1 U
23-27	3/10/22	1 U	1 U	1	9
33-37	3/10/22	1 U	1 U	1 U	3
43-47	3/10/22	1 U	1 U	1 U	2
53-57	3/10/22	1 U	1 U	1 U	1 U

DPT0344

Depth	Date	TCE	cDCE	tDCE	VC
23-27	4/12/23	1 U	1 U	1 U	1 U
33-37	4/12/23	1 U	1	1 U	6
43-47	4/12/23	1 U	1 U	1 U	1 U
53-57	4/12/23	1 U	1 U	1 U	1 U

DPT0287

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/11/22	1 U	1 U	1 U	1 U
23-27	3/11/22	1 U	1 U	1 U	1 U
33-37	3/11/22	1 U	1	1 U	20
43-47	3/11/22	1 U	1 U	1 U	5
53-57	3/11/22	1 U	1 U	1 U	1 U

DPT0279

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/9/22	1 U	2	1 U	1 U
23-27	3/10/22	1 U	1 U	1	2
33-37	3/10/22	1 U	1 U	1 U	5
43-47	3/10/22	1 U	1 U	1 U	96
53-57	3/10/22	1 U	1 U	1 U	1 U

DPT0302

Depth	Date	TCE	cDCE	tDCE	VC
23-27	3/16/22	1 U	1 U	1 U	1 U
33-37	3/16/22	1 U	1 U	1 U	1 U
43-47	3/16/22	1 U	6	1 U	130
53-57	3/16/22	1 U	1 U	1 U	1 U

DPT0321

Depth	Date	TCE	cDCE	tDCE	VC
23-27	7/27/22	1 U	1 U	1 U	1 U
33-37	7/27/22	1 U	2	1 U	1 U
43-47	7/27/22	1 U	3	1 U	8
53-57	7/27/22	1 U	1 U	1 U	1 U

DPT0319

Depth	Date	TCE	cDCE	tDCE	VC
13-17	7/26/22	1 U	1 U	1 U	1 U
23-27	7/27/22	1 U	1 U	1 U	1 U
33-37	7/27/22	1 U	1 U	1 U	1 U
43-47	7/27/22	1 U	3	1 U	5
53-57	7/27/22	1 U	1 U	1 U	1 U

DPT0298

Depth	Date	TCE	cDCE	tDCE	VC
23-27	3/15/22	2	1 U	1 U	1 U
33-37	3/15/22	1 U	1	1 U	2
43-47	3/15/22	1 U	3	1 U	8
53-57	3/15/22	1 U	1 U	1 U	1 U

DPT0336

Depth	Date	TCE	cDCE	tDCE	VC
33-37	7/29/22	1 U	1 U	1 U	1 U
43-47	7/29/22	1 U	1	1 U	48
53-57	7/29/22	1 U	1 U	1 U	1 U

DPT0362

Depth	Date	TCE	cDCE	tDCE	VC
33-37	7/10/23	1 U	1 U	1 U	1 U
43-47	7/10/23	1 U	3	1 U	10
53-57	7/10/23	1 U	1 U	1 U	1 U

DPT0351

Depth	Date	TCE	cDCE	tDCE	VC
33-37	4/13/22	8	1 U	1 U	1 U
43-47	4/13/22	1	5	1 U	12
53-57	4/13/22	1 U	1 U	1 U	1 U

DPT0347

Depth	Date	TCE	cDCE	tDCE	VC
33-37	4/12/23	1 U	1 U	1 U	1 U
43-47	4/12/23	1 U	1 U	1 U	15
53-57	4/12/23	1 U	1 U	1 U	1 U

DPT0336

Depth	Date	TCE	cDCE	tDCE	VC
33-37	7/29/22	1 U	1 U	1 U	1 U
43-47	7/29/22	1 U	1	1 U	48
53-57	7/29/22	1 U	1 U	1 U	1 U

DPT0349

Depth	Date	TCE	cDCE	tDCE	VC
33-37	4/12/23	1 U	1 U	1 U	1 U
43-47	4/12/23	1 U	2	1 U	120
53-57	4/12/23	1 U	1 U	1 U	1

DPT0359

Depth	Date	TCE	cDCE	tDCE	VC
33-37	7/10/23	1 U	1 U	1 U	1 U
43-47	7/10/23	1 U	1 U	1 U	4
53-57	7/10/23	1 U	1 U	1 U	1 U

DPT0290

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/14/22	1 U	1 U	1 U	1 U
23-27	3/14/22	1 U	1 U	1 U	1
33-37	3/14/22	1 U	1 U	1 U	2
43-47	3/14/22	1 U	1 U	1 U	1
53-57	3/14/22	1 U	1 U	1 U	1 U

DPT0346

Depth	Date	TCE	cDCE	tDCE	VC
33-37	4/12/23	1 U	1 U	1 U	1 U
43-47	4/12/23	1 U	1	1 U	270
53-57	4/12/23	1 U	1 U	1 U	1 U

DPT0348

Depth	Date	TCE	cDCE	tDCE	VC
33-37	4/12/23	1 U	1 U	1 U	1 U
43-47	4/12/23	1 U	1 U	1 U	65
53-57	4/12/23	1 U	1 U	1 U	25

DPT0313

Depth	Date	TCE	cDCE	tDCE	VC
13-17	7/25/22	1 U	1 U	1 U	1 U
23-27	7/25/22	1 U	1 U	1 U	1 U
33-37	7/25/22	1 U	1 U	1 U	1 U
43-47	7/25/22	1 U	1 U	1 U	260 J
53-57	7/25/22	1 U	1 U	1 U	6

DPT0360

Depth	Date	TCE	cDCE	tDCE	VC
23-27	7/11/23	1 U	1 U	1 U	1 U
33-37	7/10/23	1 U	1	1 U	9
43-47	7/10/23	1 U	1 U	1 U	1
53-57	7/10/23	1 U	1 U	1 U	1 U

DPT0345

Depth	Date	TCE	cDCE	tDCE	VC
33-37	4/12/23	1 U	1 U	1 U	2
43-47	4/12/23	1 U	1 U	1 U	280
53-57	4/12/23	1 U	1 U	1 U	1 U

DPT0361

Depth	Date	TCE	cDCE	tDCE	VC
33-37	7/10/23	1 U	1 U	1 U	3
43-47	7/10/23	1 U	2	1 U	13
53-57	7/10/23	1 U	1 U	1 U	1 U

DPT0314

Depth	Date	TCE	cDCE	tDCE	VC
13-17	7/25/22	1 U	1 U	1 U	1 U
23-27	7/25/22	1 U	1 U	1 U	1 U
33-37	7/25/22	1 U	1 U	1 U	1 U
43-47	7/25/22	1 U	1 U	1 U	2
53-57	7/25/22	1 U	1 U	1 U	1 U

DPT0289

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/11/22	2	1	1 U	1 U
23-27	3/11/22	1 U	1 U	1 U	6
33-37	3/11/22	1 U	1	1 U	2
43-47	3/11/22	1 U	1 U	1 U	15
53-57	3/14/22	1 U	1 U	1 U	1 U

DPT0288

Depth	Date	TCE	cDCE	tDCE	VC
13-17	3/11/22	1 U	1 U	1 U	1 U
23-27	3/11/22	1 U	1 U	1 U	1 U
33-37	3/11/22	1 U	1 U	1 U	16
43-47	3/11/22	1 U	1 U	1 U	4
53-57	3/11/22	1 U	1 U	1 U	1 U

Legend

- DPT Location Below GCTLs
- DPT Location Above GCTLs
- DPT Location Above NADCs

2022 Overall Plume

- Low Concentration Plume (>GCTLs)
- High Concentration Plume (>NADCs)

Notes:
Yellow=above GCTLs
Blue=above NADCs

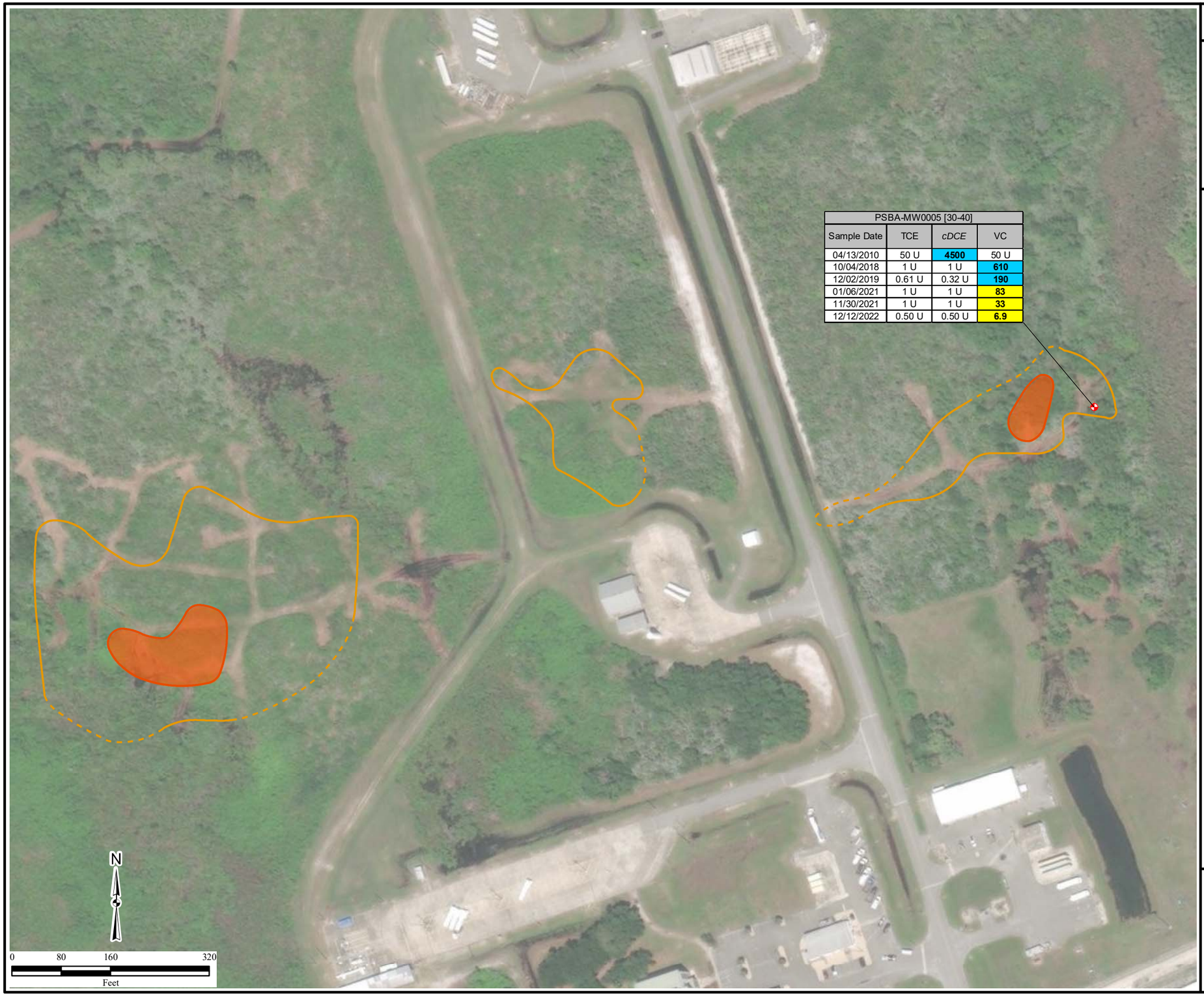
DPT=direct push technology
FSRA=Fluid Servicing Road Area
GCTLs=groundwater cleanup target levels
KSC=Kennedy Space Center
NADC=natural attenuation default concentration
PSBA=Propellants Storage Building Area
SWMU=Solid Waste Management Unit

N

0 70 140 280
Feet

\\srv-gst-01\hglgis\KSC_NS1002\FSRA\IGWMR_2022-23\(2-04b)5YR_DPT_Central-West.mxd
3/21/2024 TB
Source: HGL, ArcGIS Online Imagery

Figure 2.5
PSBA
Interim Groundwater Monitoring Results
Interval 30-40 ft bgs



Legend

- Monitoring Well Exceeds GCTL
- 2022/2023 Low Concentration Plume (<NADCs, dashed where inferred)
- 2022/2023 High Concentration Plume (>NADCs)

Notes:
All results are in micrograms per liter (µg/L).

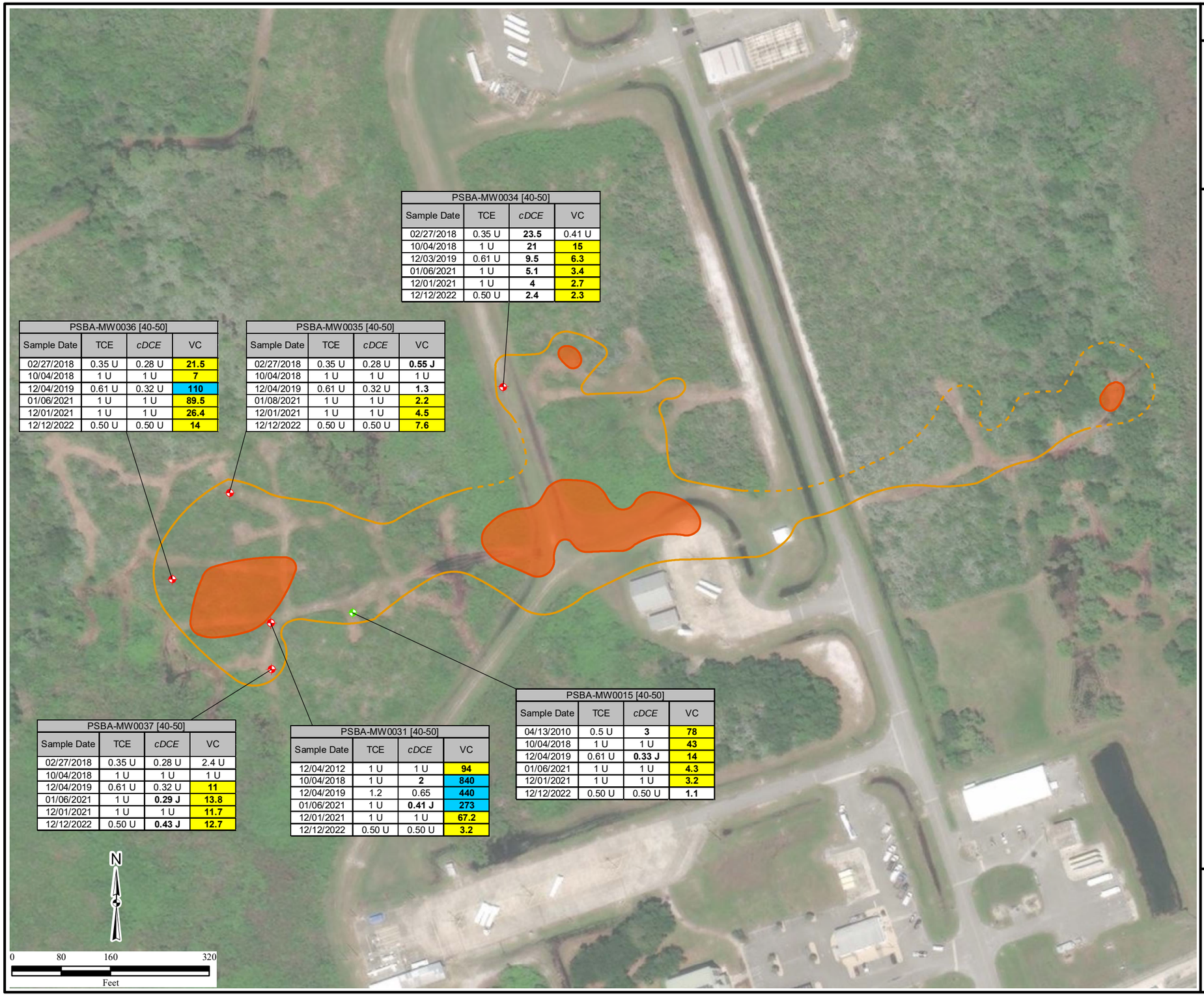
Blue=Exceeds NADC
Yellow=Exceeds GCTL

cDCE=cis-1,2-dichloroethene
ft bgs=feet below ground surface
FSRA=Fluid Servicing Road Area
GCTL=Groundwater Cleanup Target Level
I=Reported value is between method detection limit and practical quantitation limit.
IGWM=Interim Groundwater Monitoring
J=Estimated Value
NADC=Natural Attenuation Default Concentration
PSBA=Propellants Storage Building Area
SWMU=Solid Waste Management Unit
TCE=trichloroethene
U=Not Detected
VC=vinyl chloride

FDEP Groundwater Target Cleanup Levels			
TCE	cDCE	tDCE	VC
3	70	100	1

\\srv-gst-01\hglgis\KSC_NS1002\FSRA\IGWMR_2022-23\(2-05)PSBA_Plumes_30-40.mxd
1/19/2024 TB
Source: HGL,
ArcGIS Online Imagery

Figure 2.6
PSBA
Interim Groundwater Monitoring Results
Interval 40-50 ft bgs



Legend

- Monitoring Well Below GCTL
- Monitoring Well Exceeds GCTL
- 2022/2023 Low Concentration Plume (<NADCs, dashed where inferred)
- 2022/2023 High Concentration Plume (>NADCs)

Notes:
All results are in micrograms per liter (µg/L).

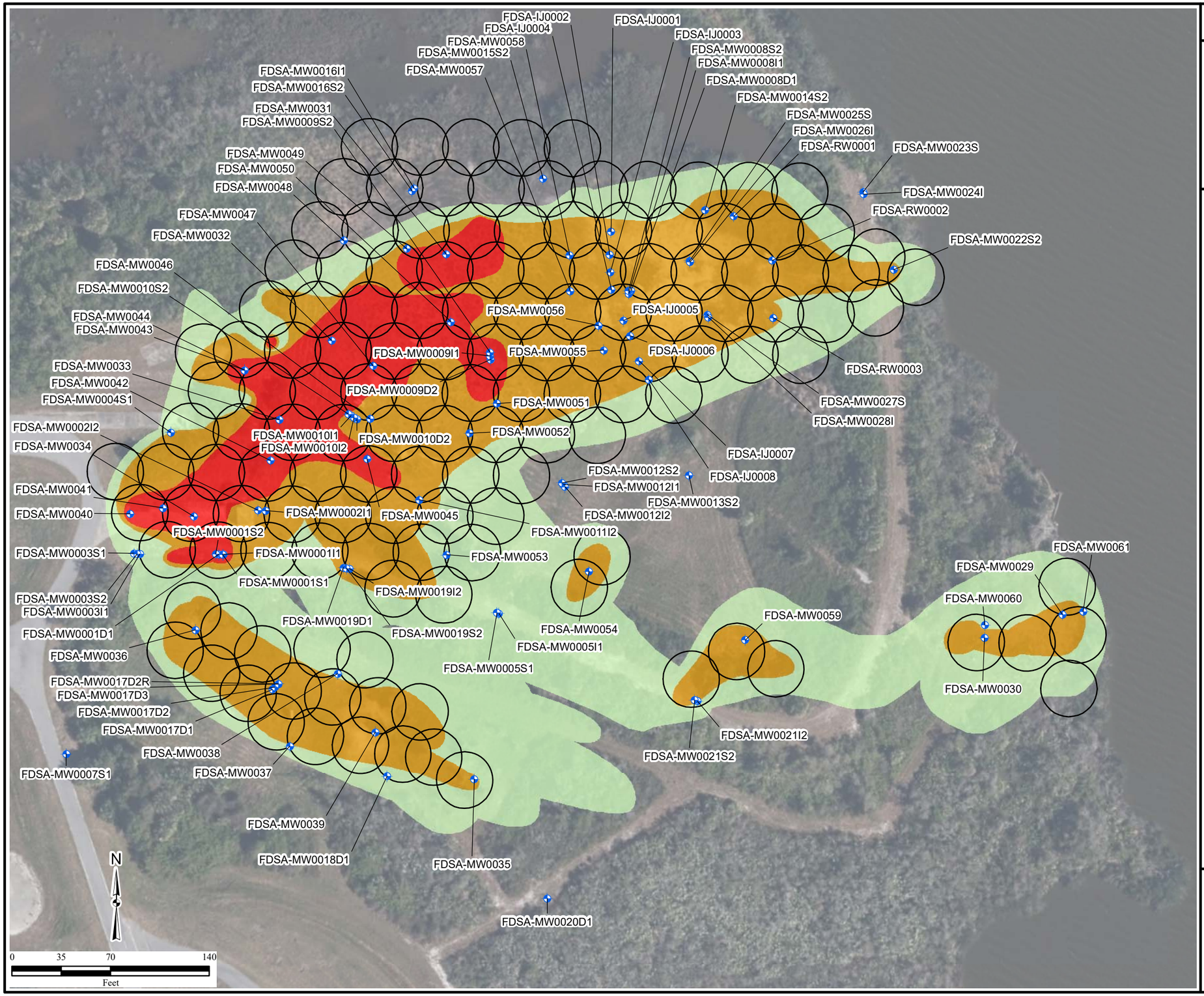
Blue=Exceeds NADC
Yellow=Exceeds GCTL

cDCE=cis-1,2-dichloroethene
ft bgs=feet below ground surface
FSRA=Fluid Servicing Road Area
GCTL=Groundwater Cleanup Target Level
I=Reported value is between method detection limit and practical quantitation limit.
IGWM=Interim Groundwater Monitoring
J=Estimated Value
KSC=Kennedy Space Center
NADC=Natural Attenuation Default Concentration
PSBA=Propellants Storage Building Area
SWMU=Solid Waste Management Unit
TCE=trichloroethene
U=Not Detected
VC=vinyl chloride

FDEP Groundwater Target Cleanup Levels			
TCE	cDCE	tDCE	VC
3	70	100	1

\\srv-gst-01\hglgis\KSC_NS1002\FSRA\IGWMR_2022-23\(2-06)PSBA_Plumes_40-50.mxd
1/19/2024 TB
Source: HGL, ArcGIS Online Imagery

Figure 3.1
FDSA
2012 Groundwater Plume and Air Sparge System Layout



Legend

- Monitoring Well
- Air Sparge ROI

2012 Overall Plume

- Low Concentration Plume (>GCTLs)
- High Concentration Plume (>NADCs)
- Hot Spot (>10x NADC)

Notes:
FDSA=former drum storage area
FSRA=Fluid Servicing Road Area
GCTL=Groundwater Cleanup Target Level
KSC=Kennedy Space Center
NADC=Natural Attenuation Default Concentration
PSBA=Propellants Storage Building Area
ROI=radius of influence
SWMU=Solid Waste Management Unit

\\srv-gst-01\hglgis\KSC_NS1002\FSRA\IGWMR_2022-23\(3-01)FDSA_Prop_Samp_Locs.mxd
1/19/2024 TB
Source: HGL,NASA
ArcGIS Online Imagery

Figure 3.2
FDSA
Interim Groundwater Monitoring Wells



Legend

- Monitoring Well
- FDSA-MW0025S — Sampled Annually
- FDSA-MW0061 — Sampled Semi Annually
- FDSA-MW0046 — Sampled Biennially
- FDSA-MW0028I — Well not Sampled

Note:
FDSA=former drum storage area
FSRA=Fluid Servicing Road Area
KSC=Kennedy Space Center
PSBA=Propellants Storage Building Area
SWMU=Solid Waste Management Unit

\\srv-gst-01\hglgis\KSC_NS1002\FSRA\IGWMR_2022-23\(3-02)FDSA_Performance_MWs.mxd
1/19/2024 TB
Source: HGL,
ArcGIS Online Imagery

Figure 3.3a
FDSA
Groundwater Elevation
Data 0-20 ft bgs



Legend

	Monitoring Well
FDSA-MW0015S2	Sample/Well Identification
0.41	Groundwater Elevation (ft NAVD88) December 2022
	Groundwater Flow Direction
–0.75–	Groundwater Elevation Contour (ft bls, NGVD)

Notes:
Elevation is referenced to the North American Datum of 1988 NAVD88).
MW0004S1, MW005S1, and MW005I1 have been abandoned.
*=not used in contouring
ft bgs=feet below ground surface
FSRA=Fluid Servicing Road Area
IGWM=Interim Groundwater Monitoring
KSC=Kennedy Space Center
NM=not measured
PSBA=Propellants Storage Building Area
SWMU=Solid Waste Management Unit

\\srv-gst-01\hglgis\KSC_NS1002\FSRA\IGWMR_2022-23\(3-03a)FDSA_Water_Table_Elev_0-20.mxd
1/19/2024 TB
Source: HGL,
ArcGIS Online Imagery

Figure 3.3b
FDSA
Groundwater Elevation
Data 20-40 ft bgs



Legend

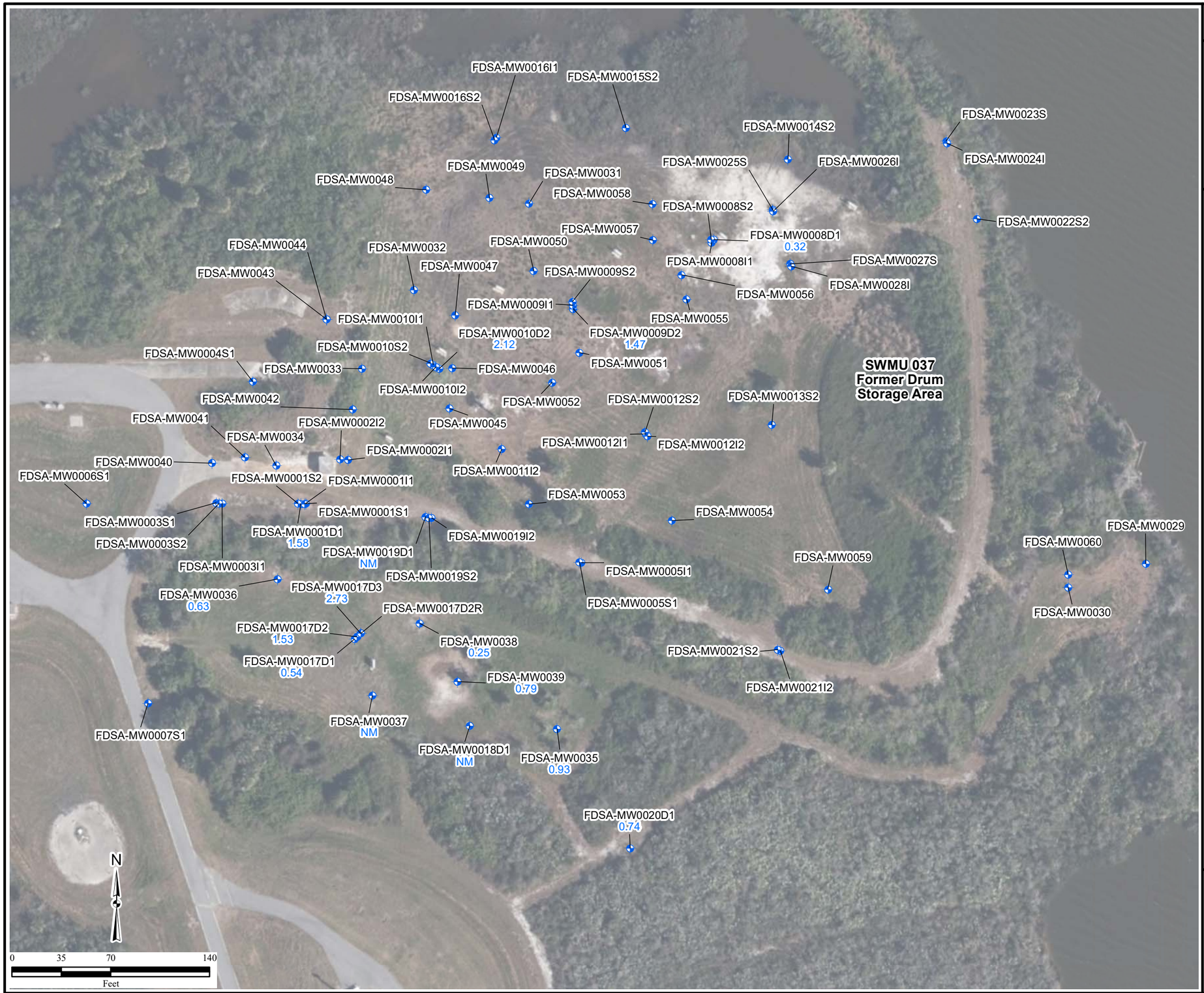
	Monitoring Well
FDSA-MW0015S2	Sample/Well Identification
0.40	Groundwater Elevation (ft NAVD88) December 2022
→	Groundwater Flow Direction
–0.75–	Groundwater Elevation Contour (ft bls, NGVD)

Notes:
Elevation is referenced to the North American Datum of 1988 NAVD88).
MW0004S1, MW005S1, and MW0051l have been abandoned.

*=not used in contouring
ft bgs=feet below ground surface
FSRA=Fluid Servicing Road Area
IGWM=Interim Groundwater Monitoring
KSC=Kennedy Space Center
NM=not measured
PSBA=Propellants Storage Building Area
SWMU=Solid Waste Management Unit

\\srv-gst-01\hglgis\KSC_NS1002\FSRA\IGWMR_2022-23\(3-03b)FDSA_Water_Table_Elev_20-40.mxd
1/19/2024 TB
Source: HGL,
ArcGIS Online Imagery

Figure 3.3c
FDSA
Groundwater Elevation
Data 40-75 ft bgs



Legend

◆	Monitoring Well
FDSA-MW0020D1	Sample/Well Identification
0.32	Groundwater Elevation (ft NAVD88) December 2022

Notes:
Elevation is referenced to the North American Datum of 1988 NAVD88).
MW0019D1 has beed abandoned
ft bgs=feet below ground surface
FSRA=Fluid Servicing Road Area
IGWM=Interim Groundwater Monitoring
KSC=Kennedy Space Center
NM=not measured
PSBA=Propellants Storage Building Area
SWMU=Solid Waste Management Unit

\\srv-gst-01\hglgis\KSC_NS1002\FSRA\IGWMR_2022-23\(3-03c)FDSA_Water_Table_Elev_40-75.mxd
1/19/2024 TB
Source: HGL,
ArcGIS Online Imagery

Figure 3.4
FDSA
Interim Groundwater Monitoring Results
0-10 ft bgs



MW16S2 [2-12]				
Sample Date	TCE	cDCE	tDCE	VC
6/4/2014	**7500**	**3400**	**230**	40 U
1/8/2021	**2.8**	**15**	**2**	0.50 U
4/1/2021	**9.7**	**24.6**	**2.5**	**0.42**
7/8/2021	**8.8**	**16.3**	**1.5**	0.50 U
12/2/2021	**3.9**	**13.9**	1 U	1 U
12/8/2022	**3.1**	**13**	**1.3**	0.50 U

MW15S2 [1-11]				
Sample Date	TCE	cDCE	tDCE	VC
5/29/2014	**2300**	**1100**	**85**	**10**
1/7/2021	**36.6**	**25.2**	**1.7**	0.50 U
4/1/2021	**28.1**	**15.6**	**1.2**	0.50 U
7/8/2021	**7.2**	**5.1**	**0.48**	0.50 U
12/2/2021	**2.8**	**17**	**1.3**	1 U
12/8/2022	**12.2**	**11.1**	**0.89 J**	0.50 U

MW14S2 [2-12]				
Sample Date	TCE	cDCE	tDCE	VC
5/27/2014	**20**	**170**	**4**	**24**
1/7/2021	**2.9**	**2.6**	**0.29**	0.50 U
4/1/2021	**3.5**	**2.3**	0.39 U	0.26 U
7/8/2021	**3.1**	**1.8**	0.50 U	0.50 U
12/2/2021	**2.8**	**1.9**	1 U	1 U
12/7/2022	**4.7**	**2.3**	0.50 U	0.50 U

MW0061 [2-12]				
Sample Date	TCE	cDCE	tDCE	VC
4/1/2021	**27.8**	**61.1**	**2.9**	**17.0**
12/3/2021	**5.3**	**11.9**	**1.5**	1 U
3/10/2022	**5.1**	**16.7**	**1.8**	1 U
6/14/2022	**6.1**	**16.0**	**1.6**	0.50 U
12/22/2022	**5.8**	**24.9**	**2.6**	0.50 U
6/8/2023	**5.9**	**21.9**	**2.8**	0.50 U

Legend

- Monitoring Well Below GCTL
- Monitoring Well Exceeds GCTL
- Extent of Groundwater Above GCTLs

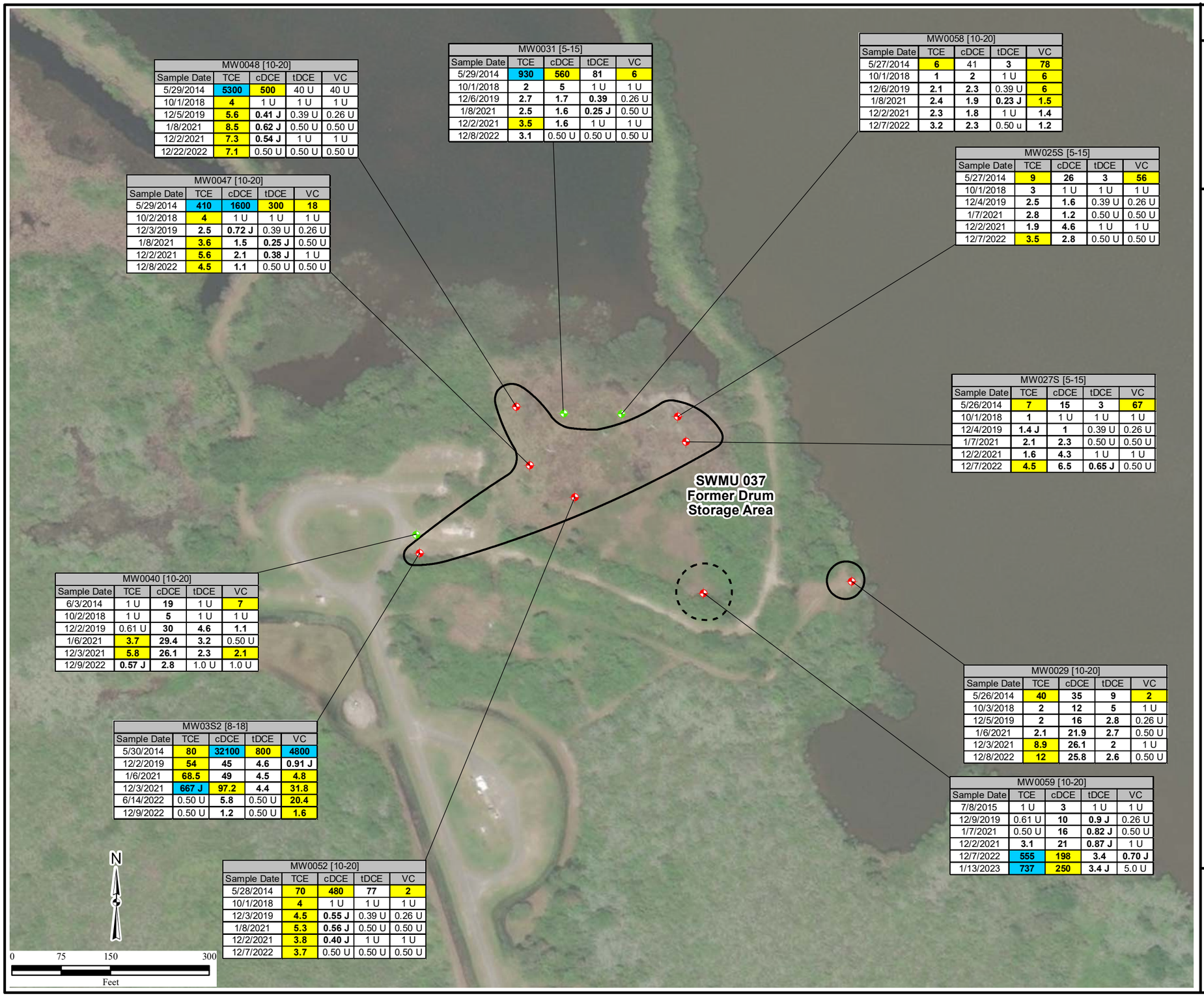
Notes:
All results are in micrograms per liter (µg/L).
Data tags include current quarterly for existing contract and previous years include annual data only.
Blue=Exceeds NADC
Yellow=Exceeds GCTL

cDCE=cis-1,2-dichloroethene
ft bgs=feet below ground surface
FSRA=Fluid Servicing Road Area
GCTL=Groundwater Cleanup Target Level
IGWM=Interim Groundwater Monitoring
J=Estimated Value
KSC=Kennedy Space Center
NADC=Natural Attenuation Default Concentration
PSBA=Propellants Storage Building Area
SWMU=Solid Waste Management Unit
TCE=trichloroethene
tDCE=trans-1,2-dichloroethene
U=Not Detected
VC=vinyl chloride

FDEP Groundwater Target Cleanup Levels			
TCE	cDCE	tDCE	VC
3	70	100	1

\\srv-gst-01\hglgis\KSC_NS1002\FSRA\IGWMR_2022-23\(3-04)FDSA_Plumes_0-10.mxd
1/19/2024 TB
Source: HGL,
ArcGIS Online Imagery

Figure 3.5
FDSA
Interim Groundwater Monitoring Results
10-20 ft bgs



MW0048 [10-20]

Sample Date	TCE	cDCE	tDCE	VC
5/29/2014	5300	500	40 U	40 U
10/1/2018	4	1 U	1 U	1 U
12/5/2019	5.6	0.41 J	0.39 U	0.26 U
1/8/2021	8.5	0.62 J	0.50 U	0.50 U
12/2/2021	7.3	0.54 J	1 U	1 U
12/22/2022	7.1	0.50 U	0.50 U	0.50 U

MW0031 [5-15]

Sample Date	TCE	cDCE	tDCE	VC
5/29/2014	930	560	81	6
10/1/2018	2	5	1 U	1 U
12/6/2019	2.7	1.7	0.39	0.26 U
1/8/2021	2.5	1.6	0.25 J	0.50 U
12/2/2021	3.5	1.6	1 U	1 U
12/8/2022	3.1	0.50 U	0.50 U	0.50 U

MW0058 [10-20]

Sample Date	TCE	cDCE	tDCE	VC
5/27/2014	6	41	3	78
10/1/2018	1	2	1 U	6
12/6/2019	2.1	2.3	0.39 U	6
1/8/2021	2.4	1.9	0.23 J	1.5
12/2/2021	2.3	1.8	1 U	1.4
12/7/2022	3.2	2.3	0.50 u	1.2

MW0047 [10-20]

Sample Date	TCE	cDCE	tDCE	VC
5/29/2014	410	1600	300	18
10/2/2018	4	1 U	1 U	1 U
12/3/2019	2.5	0.72 J	0.39 U	0.26 U
1/8/2021	3.6	1.5	0.25 J	0.50 U
12/2/2021	5.6	2.1	0.38 J	1 U
12/8/2022	4.5	1.1	0.50 U	0.50 U

MW025S [5-15]

Sample Date	TCE	cDCE	tDCE	VC
5/27/2014	9	26	3	56
10/1/2018	3	1 U	1 U	1 U
12/4/2019	2.5	1.6	0.39 U	0.26 U
1/7/2021	2.8	1.2	0.50 U	0.50 U
12/2/2021	1.9	4.6	1 U	1 U
12/7/2022	3.5	2.8	0.50 U	0.50 U

MW027S [5-15]

Sample Date	TCE	cDCE	tDCE	VC
5/26/2014	7	15	3	67
10/1/2018	1	1 U	1 U	1 U
12/4/2019	1.4 J	1	0.39 U	0.26 U
1/7/2021	2.1	2.3	0.50 U	0.50 U
12/2/2021	1.6	4.3	1 U	1 U
12/7/2022	4.5	6.5	0.65 J	0.50 U

MW0040 [10-20]

Sample Date	TCE	cDCE	tDCE	VC
6/3/2014	1 U	19	1 U	7
10/2/2018	1 U	5	1 U	1 U
12/2/2019	0.61 U	30	4.6	1.1
1/6/2021	3.7	29.4	3.2	0.50 U
12/3/2021	5.8	26.1	2.3	2.1
12/9/2022	0.57 J	2.8	1.0 U	1.0 U

MW0029 [10-20]

Sample Date	TCE	cDCE	tDCE	VC
5/26/2014	40	35	9	2
10/3/2018	2	12	5	1 U
12/5/2019	2	16	2.8	0.26 U
1/6/2021	2.1	21.9	2.7	0.50 U
12/3/2021	8.9	26.1	2	1 U
12/8/2022	12	25.8	2.6	0.50 U

MW03S2 [8-18]

Sample Date	TCE	cDCE	tDCE	VC
5/30/2014	80	32100	800	4800
12/2/2019	54	45	4.6	0.91 J
1/6/2021	68.5	49	4.5	4.8
12/3/2021	667 J	97.2	4.4	31.8
6/14/2022	0.50 U	5.8	0.50 U	20.4
12/9/2022	0.50 U	1.2	0.50 U	1.6

MW0059 [10-20]

Sample Date	TCE	cDCE	tDCE	VC
7/8/2015	1 U	3	1 U	1 U
12/9/2019	0.61 U	10	0.9 J	0.26 U
1/7/2021	0.50 U	16	0.82 J	0.50 U
12/2/2021	3.1	21	0.87 J	1 U
12/7/2022	555	198	3.4	0.70 J
1/13/2023	737	250	3.4 J	5.0 U

MW0052 [10-20]

Sample Date	TCE	cDCE	tDCE	VC
5/28/2014	70	480	77	2
10/1/2018	4	1 U	1 U	1 U
12/3/2019	4.5	0.55 J	0.39 U	0.26 U
1/8/2021	5.3	0.56 J	0.50 U	0.50 U
12/2/2021	3.8	0.40 J	1 U	1 U
12/7/2022	3.7	0.50 U	0.50 U	0.50 U

Legend

- Monitoring Well >GCTL during most recent sampling event
- Monitoring Well <GCTL during most recent sampling event
- Extent of Groundwater Above GCTLs (dashed where inferred)

Notes:
Blue=Exceeds NADC
Yellow=Exceeds GCTL

cDCE=cis-1,2-dichloroethene
ft bgs=feet below ground surface
FSRA=Fluid Servicing Road Area
GCTL=Groundwater Cleanup Target Level
J=Estimated Value
KSC=Kennedy Space Center
NADC=Natural Attenuation Default Concentration
PSBA=Propellants Storage Building Area
SWMU=Solid Waste Management Unit
TCE=trichloroethene
U=Not Detected
VC=vinyl chloride

\\srv-gst-01\hglgis\KSC_NS1002\FSRA\IGWMR_2022-23\(3-05)FDSA_Plumes_10-20.mxd
1/19/2024 TB
Source: HGL,
ArcGIS Online Imagery

Figure 3.6
FDSA
Interim Groundwater
Monitoring Results 20-30 ft bgs

MW0044 [20-30]				
Sample Date	TCE	cDCE	tDCE	VC
6/4/2014	**1000**	**190**	**43**	**20**
10/3/2018	**10**	1 U	1 U	1 U
12/3/2019	**7.1**	**1.2**	0.39 U	0.26 U
1/7/2021	**6.7**	**1.4**	**0.30**	0.50 U
12/3/2021	**9.2**	**1.3**	1 U	1 U
12/9/2022	**7.1**	**2.3**	0.50 U	0.50 U

MW0033 [20-30]				
Sample Date	TCE	cDCE	tDCE	VC
5/30/2014	**6600**	**620**	**240**	20 U
10/2/2018	**1**	1 U	1 U	1 U
12/3/2019	**5.2**	**0.94 J**	**0.41 J**	0.26 U
1/8/2021	**2.8**	**1.1**	0.50 U	0.50 U
12/3/2021	**4.2**	**1**	1 U	1 U
12/7/2022	**7.2**	**1.3**	**0.50 J**	0.50 U

MW0034 [20-30]				
Sample Date	TCE	cDCE	tDCE	VC
6/4/2014	1 U	**93**	**16**	**6**
10/2/2018	**2**	1 U	1 U	1 U
12/2/2019	**4.2**	**0.39 J**	0.39 U	0.26 U
1/6/2021	**3.9**	**0.50**	0.50 U	0.50 U
12/3/2021	**4.4**	1 U	1 U	1 U
12/9/2022	**2.7**	0.50 U	0.50 U	0.50 U

MW0045 [20-30]				
Sample Date	TCE	cDCE	tDCE	VC
5/29/2014	**130**	**530**	**40**	2 U
10/2/2018	**10**	**4**	1 U	1 U
12/9/2019	**6.5**	**7**	**0.7 J**	0.26 U
1/8/2021	**6.1**	**11.5**	**0.86 J**	0.50 U
12/3/2021	**6.9**	**13.9**	**0.94 J**	1 U
12/22/2022	**5.3**	**14.1**	**1**	0.50 U

MW0050 [20-30]				
Sample Date	TCE	cDCE	tDCE	VC
5/29/2014	**9**	**21**	**9**	**370 J**
10/2/2018	**4**	**2**	1 U	1 U
12/3/2019	**6.7**	**1.6**	0.39 U	0.26 U
1/8/2021	**7**	**2.1**	**0.32 J**	0.50 U
12/2/2021	**6.1**	**1.8**	1 U	1 U
12/8/2022	**8.7**	**2.1**	0.50 U	0.50 U

MW0057 [20-30]				
Sample Date	TCE	cDCE	tDCE	VC
5/28/2014	**8**	**19**	**3**	**120**
10/1/2018	1 U	**3**	1 U	**4**
12/6/2019	0.61 U	**3.5**	0.39 U	**2.5**
1/8/2021	0.50 U	**5.8**	**0.54 J**	**16.8**
12/2/2021	1 U	**2.8**	**0.89 J**	1 U
12/7/2022	**0.56 J**	**2**	**1.2**	0.50 U

MW0055 [20-30]				
Sample Date	TCE	cDCE	tDCE	VC
5/28/2014	**6**	**5**	**3**	**120**
10/1/2018	1 U	**5**	**1**	**39**
12/9/2019	0.61 U	**6.9**	**1.3 J**	**48**
1/7/2021	0.50 U	**6.5**	**1.6**	**46.8**
12/2/2021	1 U	**4.2**	**1.4**	**42.1**
12/7/2022	0.50 U	**2**	**1.3**	0.50 U

MW0051 [20-30]				
Sample Date	TCE	cDCE	tDCE	VC
5/28/2014	**18**	**77**	**14**	**170**
10/1/2018	1 U	**4**	1 U	**3**
12/3/2019	**1.7 J**	**5.1**	**0.52 J**	**1.8**
1/8/2021	**2**	**8.6**	**0.51 J**	0.50 U
12/2/2021	**1.5**	**8.9**	1 U	1 U
12/22/2022	**1.3**	**11.5**	**0.50 J**	0.50 U

SWMU 037
Former Drum
Storage Area

N

0 50 100 200
Feet

Legend

- Monitoring Well Below GCTL
- Monitoring Well Exceeds GCTL
- Extent of Groundwater Above GCTLs

Notes:
All results are in micrograms per liter (µg/L).
Blue=Exceeds NADC
Yellow=Exceeds GCTL

cDCE=cis-1,2-dichloroethene
ft bgs=feet below ground surface
FSRA=Fluid Servicing Road Area
GCTL=Groundwater Cleanup Target Level
IGWM=Interim Groundwater Monitoring
J=Estimated Value
KSC=Kennedy Space Center
NADC=Natural Attenuation Default Concentration
PSBA=Propellants Storage Building Area
SWMU=Solid Waste Management Unit
TCE=trichloroethene
tDCE=trans-1,2-dichloroethene
U=Not Detected
VC=vinyl chloride

FDEP Groundwater Target Cleanup Levels			
TCE	cDCE	tDCE	VC
3	70	100	1

\\srv-gst-01\hglgis\KSC_NS1002\FSRA\IGWMR_2022-23\(3-06)FDSA_Plumes_20-30.mxd
1/19/2024 TB
Source: HGL,
ArcGIS Online Imagery

Figure 3.7
FDSA
Interim Groundwater
Monitoring Results 40-50 ft bgs



MW0036 [40-50]				
Sample Date	TCE	cDCE	tDCE	VC
6/4/2014	**510**	**150**	**7**	5 U
10/3/2018	**3**	**26**	**2**	1 U
12/2/2019	**1.8**	**42**	**3**	0.26 U
1/7/2021	**1.6**	**64.4**	**3.4**	0.50 U
12/3/2021	**0.79 J**	**73.6**	**3.1**	2 U
12/9/2022	1.0 U	**66.4**	**3.2**	1.0 U

MW0038 [40-50]				
Sample Date	TCE	cDCE	tDCE	VC
6/4/2014	**140**	**27**	1 U	1 U
10/3/2018	**2**	**8**	1 U	1 U
12/5/2019	**3.5**	**19**	**0.77 J**	0.26 U
1/7/2021	**3.2**	**27.1**	**0.84**	0.50 U
12/3/2021	**2.8**	**32.5**	1 U	1 U
12/22/2022	**1.6**	**37**	**1.2**	0.50 U

MW17D1 [42-47]				
Sample Date	TCE	cDCE	tDCE	VC
7/10/2015	**160**	**86**	**8**	1 U
10/1/2018	**6**	**18**	**2**	1 U
12/2/2019	**6.5**	**21**	**1.7 J**	**0.3 J**
1/6/2021	**6.8**	**34.4**	**1.5**	0.50 U
12/3/2021	**3.6**	**98**	**3.6**	**0.47 J**
12/9/2022	**2.5**	**113**	**7.5**	**0.72 J**

MW0039 [40-50]				
Sample Date	TCE	cDCE	tDCE	VC
6/4/2014	**700**	**240**	11	3 U
10/3/2018	**2**	**4**	1 U	1 U
12/5/2019	**3.4**	**18**	**1.4 J**	0.26 U
1/7/2021	**2.7**	**19.8**	**1.2**	0.50 U
12/3/2021	**1.8**	**18.1**	1 U	1 U
12/22/2022	**1.6**	**24.3**	**1.1**	0.50 U

MW0035 [40-50]				
Sample Date	TCE	cDCE	tDCE	VC
6/4/2014	**130**	**220**	**8**	2 U
10/3/2018	**5**	**40**	**2**	1 U
12/6/2019	**4.6**	**51**	**3.3**	0.26 U
1/6/2021	**2.1**	**59.9**	**2.7**	0.50 U
12/3/2021	**1.6 J**	**56.2**	2 U	2 U
12/8/2022	**1.1 J**	**48.9**	**1.7 J**	1.0 U

Legend

- Monitoring Well Below GCTL
- Monitoring Well Exceeds GCTL
- Extent of Groundwater Above GCTLs

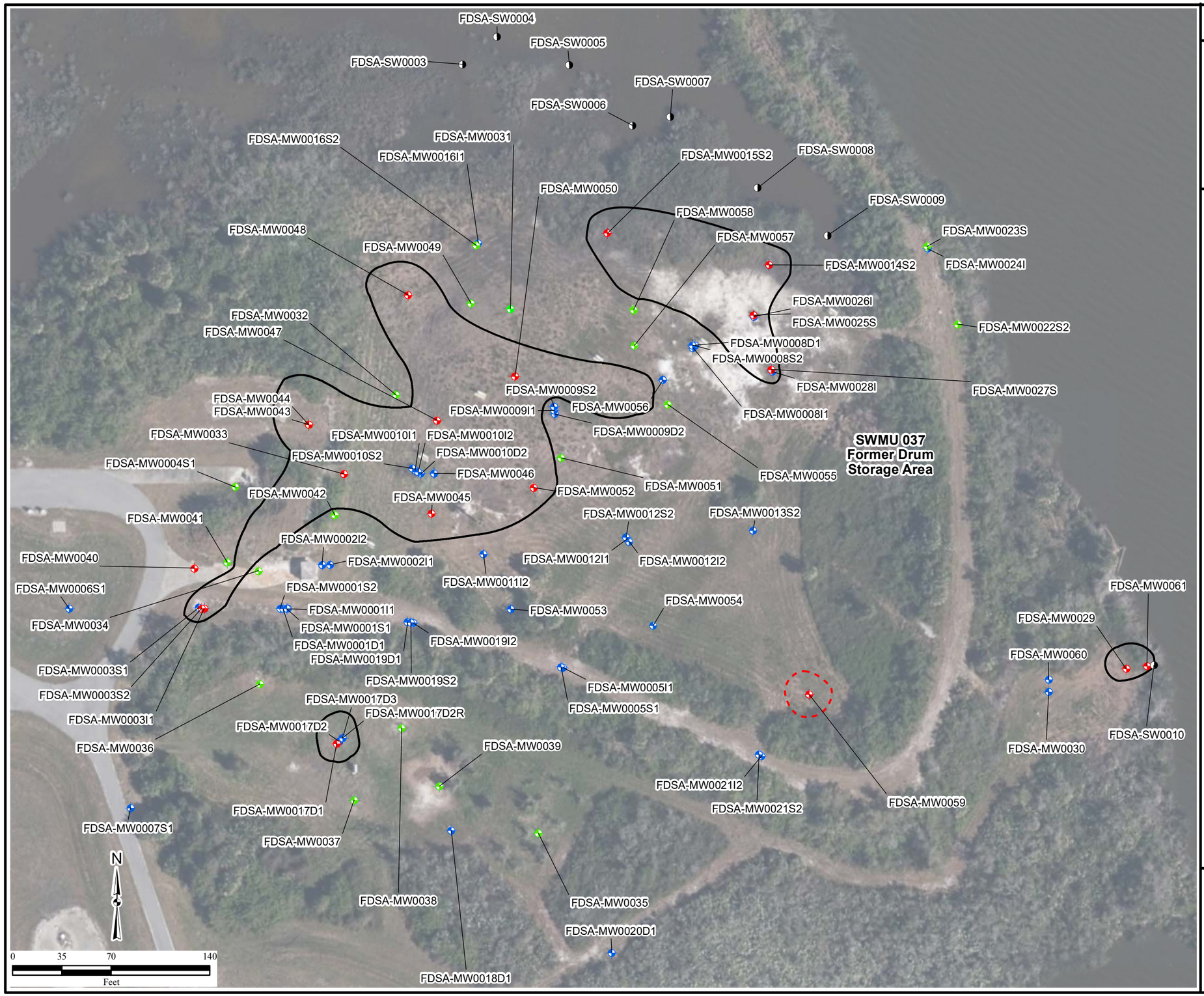
Notes:
All results are in micrograms per liter (µg/L).
Blue=Exceeds NADC
Yellow=Exceeds GCTL

cDCE=cis-1,2-dichloroethene
ft bgs=feet below ground surface
FSRA=Fluid Servicing Road Area
GCTL=Groundwater Cleanup Target Level
IGWM=Interim Groundwater Monitoring
J=Estimated Value
KSC=Kennedy Space Center
NADC=Natural Attenuation Default Concentration
PSBA=Propellants Storage Building Area
SWMU=Solid Waste Management Unit
TCE=trichloroethene
tDCE=trans-1,2-dichloroethene
U=Not Detected
VC=vinyl chloride

FDEP Groundwater Target Cleanup Levels			
TCE	cDCE	tDCE	VC
3	70	100	1

\\srv-gst-01\hglgis\KSC_NS1002\FSRA\IGWMR_2022-23\(3-07)FDSA_Plumes_40-50.mxd
1/19/2024 TB
Source: HGL,
ArcGIS Online Imagery

Figure 3.8
FDSA
Current Groundwater Plume



Legend

- Monitoring Well (Not sampled during annual/biennial sampling events)
- Monitoring Well >GCTL during most recent sampling events
- Monitoring Well <GCTL during most recent sampling events
- Surface Water Sample
- Extent of Groundwater Above NADCs (dashed where inferred)
- Extent of Groundwater Above GCTLs

Notes:
DPT=direct-push technology
FDSA=former drum storage area
FSRA=Fluid Servicing Road Area
GCTL=Groundwater Cleanup Target Level
KSC=Kennedy Space Center
NADC=Natural Attenuation Default Concentration
PSBA=Propellants Storage Building Area
SWMU=Solid Waste Management Unit

\\srv-gst-01\hglgis\KSC_NS1002\FSRA\IGWMR_2022-23\(3-08)GW_Plume_2022-23.mxd
5/6/2024 TB
Source: HGL,
ArcGIS Online Imagery

APPENDICES

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APPENDIX A

FIELD FORMS

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Daily Quality Control Report

Daily Quality Control Report	
Date:	**12/6/2022 - 12/12/2022**
NASA Remediation Project Manager:	Natasha Darre
HGL Program Manager	Janardan Patel
HGL Project Manager:	Jason Bublitz
Contract No.	80KSC019D0012
Task Order No.	80KSC019F0096
Project Name:	FSRA-FDSA
Project No.	NS1002.04.04

Day	**S**	**M**	**T**	**W**	**TH**	**F**	**S**
		X	**X**	**X**	**X**	**X**	

Weather	Bright Sun		Clear	Overcast		Rain	Fog
				X		X	

Temp	Min.	Max.
	70	80

Wind	Still	Moderate	High	Gust
		X		

Humidity	Dry	Moderate	High	Rainfall
		X		

1. List of On-Site Personnel:

1.1 List of HGL Personnel Onsite

HGL Employee Name	Position	Location	Hours	Non-Hours	Total Hours
Barry Huston	Field Technician	FDSA	32.5	0	32.5
Parker Duttenhaver	Field Technician	FDSA	32.5	0	32.5
TOTAL HGL PERSONNEL ONSITE		**2**	**TOTAL HOURS WORKED**		**65**

1.2 List of GOV. Personnel Onsite

Personnel Onsite	Affiliation / Position	Location	Est. Total Hours
TOTAL GOV PERSONNEL ONSITE	**0**		**0**

1.3 Subcontractors Onsite

Employee Name	Company / Position	Location	Hours	Non-Hours	Total Hours
TOTAL SUBCONTRACTOR PERSONNEL ONSITE		**0**	**TOTAL HOURS WORKED**		**0**

2. List of Equipment

2.1 Heavy Equipment

Equipment	Date Arrived/Departed	Date of Safety Check	Hours Used	Hours Idle	Hours Repair

2.2 Instrumentation & Equipment

Description Of Instrumentation	Date Arrived/Departed	Pre/Post Calibration Conducted	Cal Form Completed	Pass / Fail	Hours Used
YSI Pro - 3510-1368	12/6/22 - 12/12/22	Yes	Yes	Pass	26.5
Hach 2100Q - 3550-1360	12/6/22 - 12/12/22	Yes	Yes	Pass	26.5
YSI Pro - 050141	12/6/22 - 12/12/22	Yes	Yes	Pass	26.5
Hach 2100Q - 050397	12/6/22 - 12/12/22	Yes	Yes	Pass	26.5

Daily Quality Control Report

3. Field Activities

DFOW / ACTIVITY / DELIVERIES	S = Start C = Continuing F = Finish	Description of Work Actually Performed / Material Deliveries
Collect Ground Water Samples At FDSA.	**S/F**	Resampled 5 wells and collected sample from MW0061 (well not sampled by error)

4. Testing and Sampling Activities

4.1 Sampling Conducted

Location	Analysis	Results - Detected / Not Detected
FDSA - MW0033	VOC's - TCE, cDCE, tDCE, VC	Awaiting Lab Results
FDSA - MW0045		
FDSA - MW0052		
FDSA - MW0051		
FDSA - MW0059		
FDSA - MW0005		
FDSA - MW0025S		
FDSA - MW0014S2		
FDSA - MW0058		
FDSA - MW0057		
FDSA - MW0055		
FDSA - MW0047		
FDSA - MW0050		
FDSA - MW0031		
FDSA - MW0048		
FDSA - MW0016S2		
FDSA - MW0015S2		
FDSA - MW0022S2		
FDSA - MW0029		
FDSA - MW0035		
FDSA - MW0039		
FDSA - MW0038		
FDSA - MW0017D1		
FDSA - MW0036		
FDSA - MW0044		
FDSA - MW0034		
FDSA - MW003S2		
PSBA - MW0036		
PSBA - MW0035		
PSBA - MW0037		
PSBA - MW0031		
PSBA - MW0015		
PSBA - MW0034		
PSBA - MW0005		
FDSA - MW0061		

5. Job Safety: (TGSM Topics, Report violations, instructions given, corrective action taken)

Biologicals, Pinch Points, Chemical Exposure, Heat Exposure, Traversing to Wells, Slips, Trips and Falls.

6. Description of Work Completed

Refer to logbook entires.

7. 3-PHASE INSPECTION (Preparatory / Initial / Final Follow-Up)

Name of Inspection Held	Gov. Notified (Y/N)	Definable Feature of Work	Checklist Completed

I Certify that I am the Contractor's Authorized Representative and that the above information stated in this Daily Activity Report is accurate and representative of the work completed.

Printed Name: Jason Bublitz	**12/13/2022**
Signature:	**12/13/2022**

I Certify that I am the Contractor's Authorized Quality Control Representative and that this Daily Activity Report conforms with all appropriate and approved Work Plan Statement of Work.

Printed Name: Jason Bublitz	**12/13/2022**
Signature:	**12/13/2022**

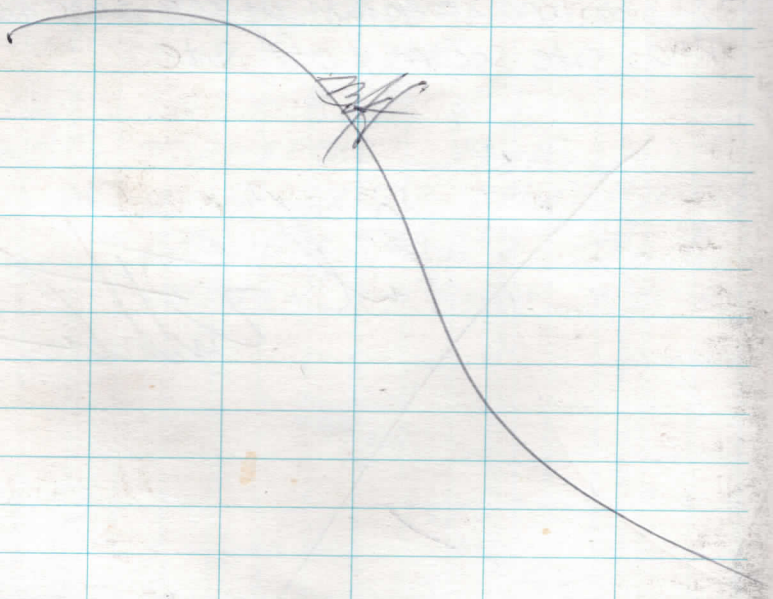
140

Location KSC Date 12-6-22

Project / Client FDSA

PURPOSE: COLLECT WATER LEVELS
PERSONAEL: B HUSTON, A DITTENHAFER
EQUIPMENT: WATER LEVEL METER
WEATHER: PTLY CLOUDY LOW 70 HIGH 78

0800 TGSM
0830 ONSITE FDSA
BEGIN COLLECT WATER LEVELS
1355 COMPLETED WATER LEVELS
14:00 ALL OFF SITE



SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : PAGE 1 OF

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: HYDRO GEO LOGIC
Address: 2405 N COURTENAY PKWY SUITE 203
City: State: Zip:
Project Contact: Email:
Phone #:
Sampler(s) Name(s) (Printed)
Sampler 1: Sampler 2:

Project Information

Project Name: EDSA
Street
City KSC State
Project # NS1002.05.06
Fax #
Client Purchase Order #

Analytical Information

TCE cis-1,2-DCE trans-1,2-DCE VC

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	LAB USE ONLY
	EDSA-MW0033-025.0-20221207	12-7-22	837	WD	GW	3			X							
	EDSA-MW0045-025.0-20221207	12-7-22	935	WD	GW	3			X							
	EDSA-MW0052-015.0-20221207	12-7-22	1011	WD	GW	3			X							
	EDSA-MW0051-025.0-20221207	12-7-22	1045	WD	GW	3			X							
	EDSA-MW0059-015.0-20221207	12-7-22	1119	WD	GW	3			X							
	EDSA-MW0075-025.0-20221207	12-7-22	1159	WD	GW	3			X							
	EDSA-MW0055-025.0-20221207	12-7-22	1231	WD	GW	3			X							
	EDSA-MW0145-025.0-20221207	12-7-22	1305	WD	GW	3			X							
	EDSA-MW0058-015.0-20221207	12-7-22	1343	WD	GW	3			X							
	EDSA-MW0057-025.0-20221207	12-7-22	1419	WD	GW	3			X							
	EDSA-MW0055-025.0-20221207	12-7-22	1455	WD	GW	3				X						

Turnaround Time (Business days)

10 Day (Business) Approved By: / Date:
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1		2	3		4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected):

http://www.sgs.com/en/terms-and-conditions

SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : PAGE_____OF_____

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information | **Project Information** | **Analytical Information**

Company Name: | Project Name:

Address: | Street

City: State: Zip: | City State

Project Contact: Email: | Project #

Phone #: | Fax #

Sampler(s) Name(s) (Printed)
Sampler 1: Sampler 2: | Client Purchase Order #

Analytical Information: 8260B TCE, cis 1,2-DCE, VC, 1,2-DCE

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	LAB USE ONLY
	FDSH-MW0047-015.0-20221208	12.8.22	813	WD	GW	3			X							X
	FDSH-MW0050-025.0-20221208	12-8-22	853	WD	GW	3			X							X
	FDSH-MW0031-012.5-20221208	12.8.22	0933	WD	GW	3			X							X
	FDSH-MW0048-015.0-20221208	12.8.22	1011	WD	GW	3			X							X
	FDSH-MW0052-007.0-20221208	12.8.22	1045	WD	GW	3			X							X
27	FDSH-MW0052-006.0-20221208	12.8.22	1121	WD	GW	3			X							X
5	FDSH-MW0052-015.0-20221208	12.8.22	1201	WD	GW	3			X							X
	FDSH-MW0029-015.0-20221208	12.8.22	1253	WD	GW	3			X							X
	FDSH-MW0035-045.0-20221208	12.8.22	1329	WD	GW	3			X							X
	FDSA-MW0039-045.0-20221208	12.8.22	1411	WD	GW	3			X							X

Turnaround Time (Business days)

10 Day (Business) Approved By: / Date:
7 Day
5 Day
3 Day *RUSH* _____
2 Day *RUSH* _____
1 Day *RUSH* _____
Other _____
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1		2	3		4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected):_____

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SGS North America Inc - Orlando

Chain of Custody

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SGS - ORLANDO JOB # : PAGE 1 OF 3

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: HYDRO GEO LOGIC
Address: 2405 N COURTENAY PKWY SUITE 203
City: MERRITT IS State: FL Zip: 32953
Project Contact: DENISE RIVERS Email: driders@hgl.com
Phone #: 90 233 8460
Sampler(s) Name(s) (Printed)
Sampler 1: W DUTTER HAGER Sampler 2:

Project Information

Project Name: FDSA
Street
City KSC State
Project # NS1002.05.06
Fax #
Client Purchase Order #

Analytical Information

8260 TCE cis-1,2-DCE VC 1,4-DIOX

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH
	FDSA-MW0033-025.0-20221207	12-7-22	837	WD	GW	3			X						
	FDSA-MW0045-025.0-20221207	12-7-22	939	WD	GW	3			X						
	FDSA-MW0052-015.0-20221207	12-7-22	1011	WD	GW	3			X						
	FDSA-MW0051-025.0-20221207	12-7-22	1045	WD	GW	3			X						
	FDSA-MW0059-015.0-20221207	12-7-22	1119	WD	GW	3			X						
	FDSA-MW0075-015.0-20221207	12-7-22	1159	WD	GW	3			X						
	FDSA-MW0055-015.0-20221207	12-7-22	1231	WD	GW	3			X						
	FDSA-MW0145-015.0-20221207	12-7-22	1305	WD	GW	3			X						
	FDSA-MW0058-015.0-20221207	12-7-22	1343	WD	GW	3			X						
	FDSA-MW0057-025.0-20221207	12-7-22	1419	WD	GW	3			X						
	FDSA-MW0055-025.0-20221207	12-7-22	1455	WD	GW	3				X					

LAB USE ONLY

Turnaround Time (Business days)

10 Day (Business) Approved By: / Date:
7 Day
5 Day
3 Day *RUSH* _____
2 Day *RUSH* _____
1 Day *RUSH* _____
Other _____
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	[signature] HGL	12-9-22	2	3		4
	Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5			6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected): _____

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Chain of Custody

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SGS - ORLANDO JOB # : PAGE 1 OF 3

SGS - ORLANDO Quote #	SKIFF #

Client / Reporting Information

Company Name: HYDRO GEO LOGIC
Address: 2405 N COURTENAY PKWY SUITE 203
City: MERRITT IS State: FL Zip: 32953
Project Contact: DENISE RIVERS Email: drivers@hgl.com
Phone #: 90 233 8460
Sampler(s) Name(s) (Printed)
Sampler 1: M DUTTER Sampler 2:

Project Information

Project Name: FDSA
Street
City KSC State
Project # NS1002.05.06
Fax #
Client Purchase Order #

Analytical Information

82 5055 TCE CIS 1,2 DCE VC TRANS 1,2-DCE

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	LAB USE ONLY
	FDSA-MW033-025.0-20221207	12-7-22	837	WD	GW	3			X							
	FDSA-MW0045-025.0-20221207	12-7-22	8935	WD	GW	3			X							
	FDSA-MW0052-015.0-20221207	12-7-22	1011	WD	GW	3			X							
	FDSA-MW0051-025.0-20221207	12-7-22	1045	WD	GW	3			X							
	FDSA-MW0059-015.0-20221207	12-7-22	1119	WD	GW	3			X							
	FDSA-MW0075-015.0-20221207	12-7-22	1159	WD	GW	3			X							
	FDSA-MW0055-015.0-20221207	12-7-22	1231	WD	GW	3			X							
	FDSA-MW0145-015.0-20221207	12-7-22	1305	WD	GW	3			X							
	FDSA-MW0058-015.0-20221207	12-7-22	1343	WD	GW	3			X							
	FDSA-MW0057-025.0-20221207	12-7-22	1419	WD	GW	3			X							
	FDSA-MW0055-025.0-20221207	12-7-22	1459	WD	GW	3			X	X						
	FDSA-TB-000.0-20221207	12-7-22	0800	WD	WQ	2			X							

Turnaround Time (Business days)

10 Day (Business) Approved By: / Date:
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	[signature]/HGL	12-9-22	2	3		4
	Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5			6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected):

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SGS - ORLANDO JOB # : PAGE 2 OF 3

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: HYDRO GEOLOGIC INC
Address: 2405 N COURTENAY PKWY Suite 203
City: MERRITT ISLAND State: FL Zip: 32953
Project Contact: DENISE RIVERS Email: drivers@hgl.com
Phone #: 910 233 9460

Project Information

Project Name: FDSA
Street
City KSC State FL
Project # PS1002.04.01
Fax #
Client Purchase Order #

Sampler(s) Name(s) (Printed)
Sampler 1: C DUTTEN HAUG/ Sampler 2:

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	CONTAINER INFORMATION MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	8260B TCE, cis-1,2-DCE, VC, 1,2-DCE	LAB USE ONLY
	FDSA-MW0047-015.0-20221208	12-8-22	0813	WD	GW	3			X							X	
	FDSA-MW0050-025.0-20221208	12-8-22	0853	WD	GW	3			X							X	
	FDSA-MW0031-012.5-20221208	12-8-22	0955	WD	GW	3			X							X	
	FDSA-MW0048-015.0-20221208	12-8-22	1011	WD	GW	3			X							X	
	FDSA-MW0052-007.0-20221208	12-8-22	1045	WD	GW	3			X							X	
27	FDSA-MW0052-006.0-20221208	12-8-22	1121	WD	GW	3			X							X	
⇒	FDSA-MW0027-015.0-20221208	12-8-22	1207	WD	GW	3			X							X	
	FDSA-MW0029-015.0-20221208	12-8-22	1253	WD	GW	3			X							X	
	FDSA-MW0035-045.0-20221208	12-8-22	1329	WD	GW	3			X							X	
	FDSA-MW0039-045.0-20221208	12-8-22	1411	WD	GW	3			X							X	

Turnaround Time (Business days)

10 Day (Business) Approved By: / Date:
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5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	[signature]/HGL	12-9-22	2	3		4
5	Relinquished by/Affiliation	Date Time:	6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected):

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SGS - ORLANDO JOB # : PAGE 3 OF 3

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: HYDROGEOLOGIC INC
Address: 2409 N. COURTENAY PKWY SUITE 203
City: MERRITT ISLAND State: FL Zip: 32953
Project Contact: DENISE RIVERS Email: d.rivers@hgl.com
Phone #: 910 233 8460
Sampler(s) Name(s) (Printed) Sampler 1: W DUTTON Sampler 2:

Project Information

Project Name: FSDA
Street
City KSC State
Project # NS1002.04.01
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNA	DI WATER	MEOH	8260B TCL VOC, 1,2-DCE	LAB USE ONLY
	FDSA-MW0038-045.0-20221209	12-9-22	8:30	WD	GW	3			X							X	
	FDSA-MW00170I-045.0-20221209	12-9-22	9:06	WD	GW	3			X							X	
	FDSA-MW0036-045.0-20221209	12-9-22	9:44	WD	GW	3			X							X	
	FDSA-MW0044-025.0-20221209	12-9-22	10:22	WD	GW	3			X							X	
	FDSA-MW0034-075.0-20221209	12-9-22	10:55	WD	GW	3			X							X	
	FDSA-MW0044-015.0-20221209	12-9-22	11:28	WD	GW	3			X							X	
	FDSA-MW0035Z-035.0-20221209	12-9-22	12:04	WD	GW	3			X							X	

Turnaround Time (Business days)

10 Day (Business) Approved By: / Date:
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5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation 1	Date Time: 12-9-22	Received By/Affiliation 2	Relinquished By/Affiliation 3	Date Time:	Received By/Affiliation 4
Relinquished by/Affiliation 5	Date Time:	Received By/Affiliation 6	Relinquished By/Affiliation 7	Date Time:	Received By/Affiliation 8

Lab Use Only : Cooler Temperature (s) Celsius (corrected):

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Chain of Custody

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SGS - ORLANDO JOB # :

PAGE 1 OF 1

SGS - ORLANDO Quote #

SKIFF #

Client / Reporting Information

Company Name: HYDROGEOLOGIC INC

Address: 2409 N COURTENAY PKWY SUITE 203

City: MERRITT ISLAND State: FL. Zip: 32953

Project Contact: DENISE RIVERS Email: drivers@hgl.com

Phone #: 910 233 8460

Sampler(s) Name(s) (Printed)
Sampler 1: W. DOTTEN Sampler 2:

Project Information

Project Name: PBSA

Street

City KSC State

Project # NS1002.05.06

Fax #

Client Purchase Order #

Analytical Information

8260B - TCE, cis 1,2-DCE, VC, 1,2-DCE

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	LAB USE ONLY
	PBSA-MW0036-045.0-20221212	12-12-22	0910	WD	GW	3			X							
	PBSA-MW0035-045.0-20221212	12-12-22	0945	WD	GW	3			X							
	PBSA-MW0037-045.0-20221212	12-12-22	1025	WD	GW	3			X							
	PBSA-MW0031-045.0-20221212	12-12-22	11:00	WD	GW	3			X							
	PBSA-MW0015-045.0-20221212	12-12-22	1135	WD	GW	3			X							
	PBSA-MW0034-045.0-20221212	12-12-22	1219	WD	GW	3			X							
	PBSA-MW0005-035.0-20221212	12-12-22	1311	WD	GW	3			X							
	PBSA-TB-0000-20221212	12-12-22	0800	WD	WQ	2			X							

Turnaround Time (Business days)

10 Day (Business) Approved By: / Date:
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation 1	Date Time:	Received By/Affiliation 2	Relinquished By/Affiliation 3	Date Time:	Received By/Affiliation 4
Relinquished by/Affiliation 5	Date Time:	Received By/Affiliation 6	Relinquished By/Affiliation 7	Date Time:	Received By/Affiliation 8

Lab Use Only : Cooler Temperature (s) Celsius (corrected):

http://www.sgs.com/en/terms-and-conditions

HGL
HydroGeoLogic, Inc.
Exceeding Expectations

SAFETY MEETING/TRAINING LOG

- ☐ Tailgate (daily)
- ☐ Activity Hazard Analysis
- ☐ Pre-Task Hazard Analysis (prior to new task or operation)
- ☐ Site Safety Orientation (new personnel)
- ☐ Supervisor's (monthly)
- ☐ Supervisor's (weekly)
- ☐ UXO Awareness
- ☐ Asbestos Awareness
- ☐ Health and Safety Plan Addendum: _____
- ☐ Other: ___

Date/Time: 12/06/2022 Client: NASA/KSC

Location: FDSA Job No.: NS1002.05.07

Meeting/training conducted by: William Duttenhaver

Work Activities: Collect water levels

Safety / Training Topics Presented

Chemical Hazards: NA

Physical Hazards: Slips, trips, falls, biologicals, heat stress

Specific Safety Topic(s): Being aware of your surroundings

Specific Training Covered: The buddy system

Attendees

Name Printed and Employee Number:	Signature:
William Duttenhaver	

HGL
HydroGeoLogic, Inc.
Exceeding Expectations

SAFETY MEETING/TRAINING LOG

- ☐ Tailgate (daily)
- ☐ Activity Hazard Analysis
- ☐ Pre-Task Hazard Analysis (prior to new task or operation)
- ☐ Site Safety Orientation (new personnel)
- ☐ Supervisor's (monthly)
- ☐ Supervisor's (weekly)
- ☐ UXO Awareness
- ☐ Asbestos Awareness
- ☐ Health and Safety Plan Addendum: _____
- ☐ Other: ___

Date/Time: 12/07/2022 Client: NASA / KSC

Location: FDSA Job No.: NS1002.05.06

Meeting/training conducted by: William Duttenhaver

Work Activities: Collect groundwater samples

Safety / Training Topics Presented

Chemical Hazards: HCL Preservatives

Physical Hazards: Slips, trips, falls, biologicals, heat stress

Specific Safety Topic(s): covid-19

Specific Training Covered: The buddy system and being aware of your surroundings

Attendees

Name Printed and Employee Number:	Signature:
William Duttenhaver	
BARRY HOSTON	

HGL
HydroGeoLogic, Inc.
Extending Expectations

SAFETY MEETING/TRAINING LOG

- ☐ Tailgate (daily)
- ☐ Activity Hazard Analysis
- ☐ Pre-Task Hazard Analysis (prior to new task or operation)
- ☐ Site Safety Orientation (new personnel)
- ☐ Supervisor's (monthly)
- ☐ Supervisor's (weekly)
- ☐ UXO Awareness
- ☐ Asbestos Awareness
- ☐ Health and Safety Plan Addendum: _____
- ☐ Other: ___

Date/Time: 12/08/22 07:00 Client: NASA/KSC

Location: FSRA/FDSA Job No.: NS1002.04.01

Meeting/training conducted by: William Duttenhaver

Work Activities: collect groundwater samples

Safety / Training Topics Presented

Chemical Hazards: HCL Preservatives

Physical Hazards: slips, trips, falls, biologicals, heat stress

Specific Safety Topic(s): covid - 19

Specific Training Covered: The buddy system and being aware of your surroundings

Attendees

Name Printed and Employee Number:	Signature:
William Duttenhaver	Paul Duttenhaver

HGL
HydroGeoLogic, Inc.
Extending Expectations

SAFETY MEETING/TRAINING LOG

- [x] Tailgate (daily)
- [ ] Activity Hazard Analysis
- [ ] Pre-Task Hazard Analysis (prior to new task or operation)
- [ ] Site Safety Orientation (new personnel)
- [ ] Supervisor's (monthly)
- [ ] Supervisor's (weekly)
- [ ] UXO Awareness
- [ ] Asbestos Awareness
- [ ] Health and Safety Plan Addendum: _____
- [ ] Other: ___

Date/Time: 12/09/2022 07:00 Client: NASA/KSC

Location: FSRA/FDSA Job No.: NS100Z.04.01

Meeting/training conducted by: william Duttenhaver

Work Activities: Collect Groundwater samples

Safety / Training Topics Presented

Chemical Hazards: HCL Preservatives

Physical Hazards: Slips, trips, falls, biologicals, heat stress

Specific Safety Topic(s): covid-19

Specific Training Covered: The buddy system and being aware of your surroundings

Attendees

Name Printed and Employee Number:	Signature:
william Duttenhaver	
BARRY HOSTON	

HGL
HydroGeoLogic, Inc.
Extending Expectations

SAFETY MEETING/TRAINING LOG

- [x] Tailgate (daily)
- [ ] Activity Hazard Analysis
- [ ] Pre-Task Hazard Analysis (prior to new task or operation)
- [ ] Site Safety Orientation (new personnel)
- [ ] Supervisor's (monthly)
- [ ] Supervisor's (weekly)
- [ ] UXO Awareness
- [ ] Asbestos Awareness
- [ ] Health and Safety Plan Addendum: _____
- [ ] Other: ___

Date/Time: 12/12/2022 07:00 Client: NASA / KSC

Location: FSRA / PSBA Job No.: NS1002.04.01

Meeting/training conducted by: William Duttenhaver

Work Activities: Groundwater Sampling

Safety / Training Topics Presented

Chemical Hazards: HCL Preservatives

Physical Hazards: slips, trips, falls, biologicals, heat stress

Specific Safety Topic(s): Off-Road driving, covid-19

Specific Training Covered: The buddy system and being aware of your surroundings

Attendees

Name Printed and Employee Number:	Signature:
William Duttenhaver	Wm Duttenhaver

HGL HydroGeoLogic, Inc
Exceeding Expectations

EQUIPMENT MAINTENANCE AND CALIBRATION RECORD

Contract/Project: PRL 227 A LOC 3
Activity: GW SAMPLING
Equipment Description: YSI PRO
Equipment ID: 3510-1368
Equipment Serial No.: 19D101577B

Calibration Date/Time	Parameter	Standard Used (Concentration)	Lot Control No./ Expiration Date	Post Calibration Reading	Comments Pass/Fail	Signature
12-5-22 10:18	DO	SATURATED AIR	N/A	100.3	P	
12-5-22 10-21	CONDUCTIVITY	1413 uS/CM	26E642 MAY 23	1412	P	
12-5-22 10-24	PH	4.0	26D849 MAR 24	4.09	P	
12-5-22 10-26	PH	7.0	26E579 MAY 24	7.05	P	
12-5-22 10:28	PH	10.0	26E179 MAY 24	10.00	P	
12-5-22 10:32	ORP	200 mV	26E643 FEB 23	200.0	P	
12-5-22 1041	TURB	20 NTU	A1355 APR 23	19.8	P	
12-5-22	TURB	100 NTU	A1344 MAR 23	99.3	P	
12-5-22	TURB	800 NTU	A2128 AUG 23	799	P	
12-5-22	TURB	10 NTU	A2031 MAY 23	9.10	P	

Maintenance Performed:

HGL HydroGeoLogic, Inc.

CALIBRATION LOG

Project Name: FSRA/FDSA

By: William Duttenhaver

Project No.: NS1002.04.01

Page 1 of 1

Date/Time	Instrument	STD	STD CONC ppm	Meter Reading	Comments
12/08/22 06:00	YSI Pro 3510-1368	conductivity	1.413 ms/cm	1.41	Pass
"	"	ORP	240.0 MV	239.7	Pass
"	"	PH	4	4.07	Pass
"	"	PH	7	6.98	Pass
"	"	PH	10	10.09	Pass
"	"	DO%	Sat Air	99.8	Pass
12/08/22 06:30	HACH 2100Q 3550-1360	NTU	20	19.8	Pass
"	"	NTU	100	100	Pass
"	"	NTU	800	802	Pass
"	"	NTU	10	9.84	Pass

HGL HydroGeoLogic, Inc

CALIBRATION LOG

Project Name: FSRA/FDSA

By: William Duttenhaver

Project No.: NS1002.04.01

Page 1 of 1

Date/Time	Instrument	STD	STD CONC ppm	Meter Reading	Comments
12/09/22 06:00	YSI Pro - 3510-1368	conductivity	1.413 MS/cm	1.42	Pass
"	"	ORP	240.0 MV	239.4	Pass
"	"	PH	4	4.01	Pass
"	"	PH	7	6.99	Pass
"	"	PH	10	10.03	Pass
"	"	DO%	Sat Air	99.4	Pass
12/09/22 06:30	HACH 2100Q - 3550-1360	NTU	20	20.1	Pass
"	"	NTU	100	99.9	Pass
"	"	NTU	800	800	Pass
"	"	NTU	10	9.89	Pass

HGL HydroGeoLogic, Inc

CALIBRATION LOG

Project Name: FSRA / PSBA

By: William Duttenhaver

Project No.: XS/002.04.01

Page 1 of 1

Date/Time	Instrument	STD	STD CONC ppm	Meter Reading	Comments
12/12/22 06:00	YSI Pro - 35010-1368	conductivity	1.413 MS/cm	1.41	Pass
"	"	ORP	240.0 MV	240.1	Pass
"	"	PH	4	4.02	Pass
"	"	PH	7	6.96	Pass
"	"	PH	10	10.08	Pass
"	"	Do %	Sat Air	100.9	Pass
12/12/22 06:30	HACH 2100Q-3550-1360	NTU	20	20.0	Pass
"	"	NTU	100	101	Pass
"	"	NTU	800	804	Pass
"	"	NTU	10	9.79	Pass

HydroGeoLogic, Inc
Exceeding Expectations

STATIC WATER LEVEL FORM

PROJECT NAME: ~~PSBA~~ FSDA DATE: 12-6-22

WATER LEVEL INDICATOR ID #: _____

LOCATION: KSC

Well ID	Time Gauged	Installed Well Depth	DTW (ft BTOC)	Total Well Depth* (ft BTOC)	Notes
MW01S1	8:34	13	3.00	12.54	
MW01S2	8:36	18	2.95	15.64	
MW01I1	8:50	35	4.04	34.11	
MW01D1	8:37	48.5	2.90	48.36	
MW02I1	912 ~~837~~	35	4.71	33.91	
MW02I2	9:07	38			OBSTRUCTED AT 2'
MW03S1	8:29	13	3:09	12.62	
MW03S2	8:30	18	3.71	14.80	
MW03I1	8:33	26	3.55	26.15	
MW04S1		13			ABANDONED
MW05S1		15			NOT FOUND
MW05I1		34			NOT FOUND
MW06S1	8:23	12	0.3	11.59	
MW07S1	1355	14	4.31	14.56	
MW08S2	1203	13	3.74	14:19	
MW08I1	1158	23	3.61		OBSTRUCTED AT 8.30'
MW08D1	1209	45	3.46	47.75	
MW09S2	1234	13	3.60	19.81	
MW09I1	1222	23			OBSTRUCTED AT 2.70'
MW09D2	1218	60	2.30		OBSTRUCTED AT 3.03

*Note: Total well depth to be measured at time of gauging.

Sampler _____ Observer _____

HGL HydroGeoLogic, Inc Exceeding Expectations

STATIC WATER LEVEL FORM

PROJECT NAME: FD 9A DATE: 12-6-22

WATER LEVEL INDICATOR ID #: _____

LOCATION: KSC

Well ID	Time Gauged	Installed Well Depth	DTW (ft BTOC)	Total Well Depth* (ft BTOC)	Notes
MW10S2	10:43	13	3.50	15.95	
MW10-I1	1045	23	3.79	25.80	
MW10I2	1046	33	3.94	34.30	
MW10D2	1047	60	2.30	60.20	
MW11I2	1107	33	3.71	35.55	
MW12S2	1114	13	3.81	15.93	
MW12I1	1117	23	3.90	23.09	
MW12I2	1119	33	3.97	35.82	
MW13S2	1124	13	4.03	14.21	
MW14S2	1155	12	2.71	14.72	
MW15S2	1243	11	2.71	13.64	
MW16S2	1246	22	2.91	14.55	
MW16I1	1248	12	2.71	15.69	
MW17D1	1314	47	5.63	49.61	
MW17D2	13:16	62	4.61	62.69	
MW17D3	1318	75	3.31	78.0	
MW18D1		~~48~~			DESTROYED
MW19S2	959	18.5	0.3		
MW19I2	1001	38.5	0.9		
MW19D1		50			~~ABAND~~ NOT FOUND

*Note: Total well depth to be measured at time of gauging.

Sampler _____ Observer _____

STATIC WATER LEVEL FORM

PROJECT NAME: ~~FSRA~~ FDSA DATE: 12-6-22

WATER LEVEL INDICATOR ID #: _____

LOCATION: KSC

Well ID	Time Gauged	Installed Well Depth	DTW (ft BTOC)	Total Well Depth* (ft BTOC)	Notes
MW20D1	13:36	47	5.73	48.95	
MW21S2	10 05	18	5.86	17.09	
MW21I2	10 18	39	5.75	39.10	
MW22S2	11 28	20	10.04	23.69	
MW23S	11 32	20	9.83	22.84	
MW24I	11 30	30	9.60	31.10	
MW25S	11 41	15	3.71	17.69	
MW26I	11 40	25	3.83	27.95	
MW27S	11 37	15	3.80	18.03	
MW28I	1138	25	3.94	27.90	
MW29	1346	20	4.18	23.29	
MW0030	1350	NS	3.84	28.16	
MW0031	1256	15	2.97	18.22	
MW0032	10 56	30	3.64	32.97	
MW0033	1039	30	7.19	32.29	
MW0034	931	30	5.55	29.54	
MW0035	1331	50	5.37	53.02	
MW0036	1309	50	4.93	49.90	
MW0037		50			COULD NOT ACCESS (BEES)
MW0038	1322	50	6.07	51.03	

*Note: Total well depth to be measured at time of gauging.

Sampler _____ Observer _____

STATIC WATER LEVEL FORM

PROJECT NAME: ~~FSRA~~ FDSA DATE: 12-6-22

WATER LEVEL INDICATOR ID #: _____

LOCATION: KSC

Well ID	Time Gauged	Installed Well Depth	DTW (ft BTOC)	Total Well Depth* (ft BTOC)	Notes
MW0039	1325	50	5.91	~~47.85~~	OBSTRUCTED AT 11.14 SLAB MOVES
MW0040	9:38	20	5.34	~~40.13~~	1985
MW0041	9:34	40	5.82	~~2 4913~~	
MW0042	1037	20	7.53	~~22.71~~	
MW0043	952	20	8.30	22.30	
MW0044	950	30	8.61	3313	
MW0045	1053	30	4.11	3315	
MW0046	1050	40	3.90	4320	
MW0047	1058	20	3.69	2330	
MW0048	1253	20	3.49	~~23~~ 30	
MW0049	1250	30	3.03	3312	
MW0050	1237	30	2.70	3345	
MW0051	1103	30	3.84	3343	
MW0052	1104	20	2.41	2301	
MW0053	1109	20	4.53	2314	
MW0054	~~—~~	~~20~~	~~—~~	~~—~~	BEE'S
MW0055	1207	30	3.90	2329	
MW0056	1211	20	3.91	3339	
MW0057	1214	30	4.24	3341	
MW0058	1241	20	3.69	~~22~~ 50	

*Note: Total well depth to be measured at time of gauging.

Sampler _____ Observer [signature]

STATIC WATER LEVEL FORM

PROJECT NAME: ~~FSRA~~ FDSA DATE: 12-6-22

WATER LEVEL INDICATOR ID #: _____

LOCATION: KSC

Well ID	Time Gauged	Installed Well Depth	DTW (ft BTOC)	Total Well Depth* (ft BTOC)	Notes
MW0059	1121	20	3.63	23.00	
MW0060	1347	25	3.82	28.61	
MW0061	1344	12	3.49	15.09	

*Note: Total well depth to be measured at time of gauging.

Sampler _____ Observer _____

STATIC WATER LEVEL FORM

PROJECT NAME: PSBA DATE: 12/14/22

WATER LEVEL INDICATOR ID #: 3010-1475

LOCATION: PSBA - KSC/NASA

Well ID	Time Gauged	Installed Well Depth	DTW (ft BTOC)	Total Well Depth* (ft BTOC)	Notes
PSBA-MW0001	0925	72	3.25'	70.52'	
PSBA-MW0002	0904	72	5.86'	74.89'	
PSBA-MW0003	0851	72	3.09'	71.50'	
PSBA-MW0004	0948	40	2.84'	42.41'	
PSBA-MW0005	0950	40	3.07'	42.49'	
PSBA-MW0006	0944	50	4.16'	51.81'	
PSBA-MW0007	0937	50	4.71'	49.65'	
PSBA-MW0008	0935	40	4.19'	42.29'	
PSBA-MW0009	0927	50	2.95'	48.41'	
PSBA-MW0010	0929	50	2.47'	48.61	
PSBA-MW0011	0854	60	2.99'	58.98'	
PSBA-MW0012	0818	20	5.57'	22.73'	
PSBA-MW0013	0816	30	5.65'	32.73'	
PSBA-MW0014 0819	~~0818~~	40	5.87'	42.62'	
PSBA-MW0015	0824	50	6.68'	51.50'	
PSBA-MW0016	0834	50	4.59'	51.36'	
PSBA-MW0017	0918	20	5.67'	21.05'	
PSBA-MW0018	0910	50	6.08'	52.15'	
PSBA-MW0019		40			Unable to access due to Alligator.
PSBA-MW0020	0952	50	2.91'	52.99'	

*Note: Total well depth to be measured at time of gauging.

Sampler Parker Duttenhaver Observer Dustin Lupis

STATIC WATER LEVEL FORM

PROJECT NAME: PSBA DATE: 12/14/22

WATER LEVEL INDICATOR ID #: 3010-1475

LOCATION: KSC/NASA

Well ID	Time Gauged	Installed Well Depth	DTW (ft BTOC)	Total Well Depth* (ft BTOC)	Notes
PSBA-MW0021	0921	50	6.71'	52.48'	
PSBA-MW0022	0907	50	6.30'	52.74'	
PSBA-MW0023	0909	60	6.23'	60.70'	
PSBA-MW0024	0915	50	5.97'	52.81'	well pad damaged.
PSBA-MW0025	0902	50	5.36'	52.59'	
PSBA-MW0026	0810	40	3.36'	41.99'	
PSBA-MW0027	0821	50	5.91'	53.02'	
PSBA-MW0028	0814	40	4.98'	42.51'	
PSBA-MW0029	0838	40	5.99'	42.78'	well.
PSBA-MW0030	0841	40	6.02'	42.87	
PSBA-MW0031	0826	50	5.61'	52.49'	
PSBA-MW0032	0843	40	5.79'	42.83	
PSBA-MW0033	0941	50	5.10'	53.00'	
PSBA-MW0034	0859	50	2.51'	50.01'	
PSBA-MW0035	0840'	50	5.86'	53.40'	
PSBA-MW0036	0832	50	3.70'	52.90'	
PSBA-MW0037	0828	50	5.06'	52.81'	

*Note: Total well depth to be measured at time of gauging.

Sampler Parker Duttenhaver Observer Dustin Lupis

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW058	SAMPLE ID: FDSA-MW0058-015.0-2020~~MMDD~~ 1207	DATE: 12-7-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 3.60	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X ~~gallons/foot~~ = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ~~gallons~~ + (5.3 ~~gallons~~/foot X 15 feet) + 200 ~~gallons~~ = 295 ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15	PURGING INITIATED AT: 1320	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~	PURGE RATE ~~(gpm)~~	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1330	2.0	2.0	200	3.62	3.93	24.6	36249	0.34	51.7	142.6	none
1333	.6	2.6	200	3.63	4.07	24.5	36583	0.23	39.3	114.8	
1336	.6	3.2	200	3.63	4.18	24.6	36852	0.20	30.0	101.9	
1339	.6	3.8	200	3.63	4.21	24.6	36977	0.18	17.5	110.9	
1342	.6	4.4	200	3.63	4.26	24.5	36931	0.17	16.1	131.5	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DUTTER HAUER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:43	SAMPLING ENDED AT: 13:44
PUMP OR TUBING DEPTH IN WELL (feet): 15	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW057	SAMPLE ID: FDSA-MW0057-025.0-2020~~MMDD~~ 21207	DATE: 12-7-32

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 4.23	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0L ~~gallons~~ + (5.3 mL ~~gallons~~/foot X 28 feet) + 200 ml ~~gallons~~ = 348 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 1356	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	PURGE RATE (gpm) mlpm	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1406	2	2.0	200	4.25	6.71	24.5	44461	0.26	16.9	-128.3	none
1409	.6	2.6	200	4.24	6.73	24.8	44534	0.19	10.9	-133.8	↓
1412	.6	3.2	200	4.25	6.72	24.7	44426	0.18	7.06	-141.9	
1415	.6	3.8	200	4.25	6.74	24.6	44190	0.17	6.62	-153.8	
1418	.6	4.4	200	4.25	~~6.67~~	24.7	44261	0.16	~~6.95~~ 4.06	-161.6	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W. DITTENHAUER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1419	SAMPLING ENDED AT: 1420
PUMP OR TUBING DEPTH IN WELL (feet): 25	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y ~~N (replaced)~~	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC 2120 7	
WELL NO: FDSA-MW14S2	SAMPLE ID: FDSA-MW14S2-0007.0-2020MMDD	DATE: 12-7-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 2,73	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = ? gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ~~gallons~~ + (5.3ml gallons/foot X 10 feet) + 200ML ~~gallons~~ = 253ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 1242	PURGING ENDED AT: 1304	TOTAL VOLUME PURGED (gallons): 4,4 L

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	PURGE RATE ~~(gpm)~~ M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1252	2.0	2.0	200	2.79	3,94	26.0	47794	0.18	14.2	44.6	none
1255	0.6	2.6	200	2.79	3,94	26.0	47389	0.18	14.1	44.9	"
1258	0.6	3.2	200	2.79	3.95	26.0	47214	0.16	7.82	46.8	"
1301	0.6	3.8	200	2.79	3.96	26.0	46330	0.15	4.70	46.6	"
1304	0.6	4.4	200	2.79	3.94	25.9	45836	0.15	3.05	46.7	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1305	SAMPLING ENDED AT: 1307
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW025S	SAMPLE ID: FDSA-MW025S-010.0-2020~~MMDD~~ 12 07	DATE: 12-7-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: 5 feet to 15 feet	STATIC DEPTH TO WATER (feet): 3.64	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= ~~0 gallons +~~ (9.3 ~~gallons~~ mL/foot X 13 feet) + 200 mL ~~gallons~~ = 269 ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10	PURGING INITIATED AT: 1208	PURGING ENDED AT: 1230	TOTAL VOLUME PURGED ~~(gallons)~~: 4.4 L

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	PURGE RATE ~~(gpm)~~ mL/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1218	2.0	2.6	200	3.66	3.93	25.5	36248	0.27	24.5	212.9	NONE
1221	.6	3.6	200	3.66	3.92	25.5	36316	0.21	20.5	210.6	
1224	.6	3.2	200	3.67	3.93	25.7	36442	0.19	20.3	208.7	
1227	.6	3.8	200	3.67	3.95	25.7	36450	0.18	19.0	204.2	
1230	.6	4.4	200	3.67	3.98	25.5	36384	0.17	18.2	202.6	V

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DUTTENHAVER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1231	SAMPLING ENDED AT: 1232
PUMP OR TUBING DEPTH IN WELL (feet): 10	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC 2120 7	
WELL NO: FDSA-MW027S	SAMPLE ID: FDSA-MW027S-010.0-2020~~MMDD~~	DATE: 12,7-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: 5 feet to 15 feet	STATIC DEPTH TO WATER (feet): 3.84	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= ~~gallons~~ + (~~gallons~~/foot X 13 feet) + 200 ml ~~gallons~~ = 269 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10	PURGING INITIATED AT: 11 30	PURGING ENDED AT: 11 58	TOTAL VOLUME PURGED ~~(gallons)~~: 4.4 L

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	PURGE RATE ~~(gpm)~~ ml/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
11:40	2.0	2.0	200	3.86	4.52	24.8	25147	0.25	61.3	360	none
11:43	.6	2.6	200	3.87	4.35	24.7	24760	0.19	47.6	55.3	
11:46	.6	3.2	200	3.87	4.20	25.0	24835	0.17	37.6	61.0	
11:49	.6	3.8	200	3.87	4.29	25.0	24901	0.16	36.0	64.0	
11:52	.6	4.4	200	3.87	4.29	24.8	24837	0.16	33.2	66.1	
11:55	.6	5.0	200	3.87	4.26	25.0	24885	0.16	38.2	71.7	
11:58	.6	5.6	200	3.87	4.25	25.1	24904	0.15	36.1	77.2	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DUTTENHAVER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11 59	SAMPLING ENDED AT: 12:00
PUMP OR TUBING DEPTH IN WELL (feet): 10	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW059	SAMPLE ID: FDSA-MW0059-015.0-2020~~MMDD~~ 21207	DATE: 12-7-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 3,78	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ~~gallons~~ + (~~gallons~~/foot X 18 feet) + 200 ml ~~gallons~~ = 275 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15	PURGING INITIATED AT: 10:56	PURGING ENDED AT: 11:18	TOTAL VOLUME PURGED (gallons): 4.4

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	PURGE RATE ~~(gpm)~~ ml/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
11:06	2.0	2.0	200	3.80	4.40	24.6	4813	0.31	26.7	137.1	none
11:09	.6	2.6	200	3.80	4.41	24.7	5080	0.26	18.3	125.6	
11:12	.6	3.2	200	3.81	4.39	24.7	5244	0.24	16.4	114.3	
11:15	.6	3.8	200	3.81	4.41	24.7	5320	0.22	19.3	111.5	
11:18	.6	4.4	200	3.81	4.39	24.6	5331	0.21	12.4	110.0	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DUTTEN HAVER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:19	SAMPLING ENDED AT: 11:20
PUMP OR TUBING DEPTH IN WELL (feet): 15	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW051	SAMPLE ID: FDSA-MW0051-025.0-2020~~MMDD~~ 2207	DATE: 12-7-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 3.80	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 6 ml gallons + (5.3 ml/FT gallons/foot X 28 feet) + 200 mL gallons = 348 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 1022	PURGING ENDED AT: 1044	TOTAL VOLUME PURGED (gallons): 4.4 L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1032	2.0	2.0	200	3.82	6.33	24.5	36510	0.26	37.8	-72.2	none
1035	.6	2.6	200	3.82	6.33	24.5	37393	0.21	31.1	-77.8	
1038	.6	3.2	200	3.83	6.35	24.5	37984	0.18	26.7	-80.6	
1041	.6	3.8	200	3.85	6.36	24.4	38166	0.17	24.7	-81.6	
1044	.6	4.4	200	3.85	6.36	24.6	38361	0.16	19.6	-84.0	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W. DUTTENHAVER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1045	SAMPLING ENDED AT: 1046
PUMP OR TUBING DEPTH IN WELL (feet): 25	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW052	SAMPLE ID: FDSA-MW0052-015.0-2021207MMDD	DATE: 12-7-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 3,33	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 mL ~~gallons~~ + (ml ~~gallons~~/foot X 8 feet) + 200 mL ~~gallons~~ = 295 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15	PURGING INITIATED AT: 9:48	PURGING ENDED AT: 10:10	TOTAL VOLUME PURGED ~~(gallons)~~: 4.4 L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
9:58	2.0	2.0	200	3.35	3.38	24.3	15107	0.24	10.9	272.9	none
10:01	.6	2.6	200	3.36	3.49	24.4	15261	0.19	6.75	261.2	↓
10:04	.6	3.2	200	3.36	3.56	24.5	15345	0.17	3.97	249.1	
10:07	.6	3.8	200	3.36	3.62	24.5	15357	0.17	2.92	241.7	
10:10	.6	4.4	200	3.36	3.70	24.5	15356	0.17	1.79	235.7	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W. DUTTER HAVEL	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10 11	SAMPLING ENDED AT: 10 12
PUMP OR TUBING DEPTH IN WELL (feet): 15	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW045	SAMPLE ID: FDSA-MW0045-025.0-2020MMDD	DATE: 12-7-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 4.11	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ~~gallons~~ L + (5.3 ~~gallons/foot~~ ml/FT X 28 feet) + 200 ml ~~gallons~~ = 348 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 854	PURGING ENDED AT: 9:34	TOTAL VOLUME PURGED ~~(gallons)~~ L

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	PURGE RATE ~~(gpm)~~ ml/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
9:04	2	2.0	200	4.13	3.95	23.7	18334	0.26	6.04	252.7	none
9:07	.6	2.6	200	4.13	3.81	23.8	20954	0.22	27.0	229.2	
9:10	.6	3.2	200	4.13	3.91	23.8	21872	0.20	28.0	229.9	
9:13	.6	3.8	200	4.15	3.94	23.8	22614	0.19	46.5	219.2	
9:16	.6	4.4	200	4.15	3.87	23.9	21714	0.18	34.1	214.7	
9:19	.6	5.0	200	4.15	3.94	24.1	22874	0.18	62.4	212.8	
9:22	.6	5.6	200	4.15	3.92	24.0	22957	0.18	57.0	210.0	
9:25	.6	6.2	200	4.15	3.93	24.0	22952	0.16	66.5	207.1	
9:28	.6	6.8	200	4.15	3.94	24.1	22962	0.15	68.5	206.1	
9:31	.6	7.4	200	4.15	3.92	24.2	23054	0.15	68.5	206.6	
9:34	.6	8.0	200	4.15	3.93	24.2	23095	0.15	72.0	202.0	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DOTTER HAVER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 935	SAMPLING ENDED AT: 936
PUMP OR TUBING DEPTH IN WELL (feet): 25	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW033	SAMPLE ID: FDSA-MW0033-025.0-2022~~MMDD~~ 1207	DATE: 12-7-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 6.96	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (25 feet – feet) X ~~gallons/foot~~ = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ~~gallons~~ + (0.65 gallons/foot X 28 feet) + 200 ~~gallons~~ = 348 ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 8:14	PURGING ENDED AT: 8:50	TOTAL VOLUME PURGED ~~(gallons)~~: 4.4

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	PURGE RATE ~~(gpm)~~ mL/m	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
0824	2.0	2.0	200	7.01	3.19	24.4	9850	0.44	11.0	297.0	clear none
0827	.6	2.6	200	7.01	3.27	24.6	10111	0.35	10.7	283.2	"
0830	.6	3.2	200	7.01	3.29	24.6	10383	0.31	2.57	273.4	
0833	.6	3.8	200	7.02	3.28	24.6	10669	0.27	2.92	266.4	
0836	.6	4.4	200	7.02	3.27	24.6	10958	0.29	2.92	263.4	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W. DUTTEN /HAVEN	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: ~~0837~~	SAMPLING ENDED AT: 0838

PUMP OR TUBING DEPTH IN WELL (feet): 25	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N (replaced)) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC 2,1207	
WELL NO: FDSA-MW055	SAMPLE ID: FDSA-MW0055-025.0-2020~~MMDD~~	DATE: 12-7-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 3,84	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 6 ~~gallons~~ + (5,3 ~~gallons~~/foot X 28 feet) + 200 ~~gallons~~ = 348 ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 1437	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	PURGE RATE ~~(gpm)~~ mL/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1442	2.0	2,0	200	3,87	6.81	24,6	43472	0,27	9,00	-103,2	none
1445	.6	2,6	200	3,87	6.22	24,5	43504	0.22	6.07	-109.6	
1448	.6	3,7	200	3,87	6,82	24,5	43581	0,20	2,82	-111,6	
1451	.6	3,8	200	3,87	6,83	24,5	43579	0.19	3,33	-114.4	
1454	.6	4,4	200	3,87	6.83	24,5	43541	0,18	4,53	-115.0	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DOTTENHAER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1455	SAMPLING ENDED AT: 1456
PUMP OR TUBING DEPTH IN WELL (feet): 25	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC 20221208	
WELL NO: FDSA-MW0022S2	SAMPLE ID: FDSA-MW0022S2-015.0-~~02221208~~	DATE: 12-08-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 10.06	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ml gallons + (5.3 ml gallons/foot X 18 feet) + 200 mL gallons = 295 mL gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15	PURGING INITIATED AT: 1142	PURGING ENDED AT: 1203	TOTAL VOLUME PURGED ~~(gallons)~~: 4.4 L

TIME	VOLUME PURGED L ~~(gallons)~~	CUMUL. VOLUME PURGED L ~~(gallons)~~	PURGE RATE ~~(gpm)~~ mL/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1152	2	2.0	200	10.07	5.39	25.4	19225	0.32	5.32	-18.0	none
1154	.6	2.6	200	10.08	5.42	25.4	19337	0.28	5.32	-23.4	
1157	.6	3.2	200	10.08	5.39	25.5	19439	0.29	4.59	-25.8	
1200	.6	3.8	200	10.08	5.36	25.6	19614	0.21	3.62	-29.7	
1203	.6	4.4	200	10.08	5.38	25.6	19672	0.19	2.17	-33.0	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DUTTEN HAVER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 15	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW035	SAMPLE ID: FDSA-MW0035-045.0-2020~~MMDD~~ 212.08	DATE: 12-8-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 40 feet to 50 feet	STATIC DEPTH TO WATER (feet): 5.28	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ml ~~gallons~~ + (5.3 ml ~~gallons~~/foot X 48 feet) + 200 ml ~~gallons~~ = 454 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 45	PURGING INITIATED AT: 1306	PURGING ENDED AT: 1328	TOTAL VOLUME PURGED ~~(gallons)~~: 4.4 L

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	PURGE RATE ml/min (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1316	2.0	2.0	200	5.30	7.03	24.1	23976	0.34	19.8	-129.4	none
1319	.6	2.6	200	5.31	7.03	24.1	24076	0.29	18.2	-133.9	
1322	.6	3.2	200	5.31	7.07	24.1	25863	0.25	14.8	-135.2	
1325	.6	3.8	200	5.31	7.02	24.1	25751	0.23	10.0	-134.9	
1328	.6	4.4	200	5.31	7.02	24.2	25209	0.23	7.32	-134.7	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W. POTTER/HACER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1329	SAMPLING ENDED AT: 1330

PUMP OR TUBING DEPTH IN WELL (feet): 45	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW039	SAMPLE ID: FDSA-MW0039-045.0-2020~~MMDD~~ 21208	DATE: 12-8-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: 40 feet to 50 feet	STATIC DEPTH TO WATER (feet): 5,51	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= ml / ~~gallons~~ + (5.3 ml / ~~gallons~~/foot X 48 feet) + 200 ml / ~~gallons~~ = 454 mL ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 45	PURGING INITIATED AT: 1348	PURGING ENDED AT: 1410	TOTAL VOLUME PURGED ~~(gallons)~~: 4.4 L

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	PURGE RATE ml/~~gpm~~	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1358	2	2.0	200	5.52	6.82	25.0	33337	0.21	2.14	-64.5	none
1401	.6	2.6	200	5.52	6.81	24.9	33578	0.31	1.53	-69.6	—
1404	.6	3.2	200	5.52	6.82	24.9	33678	0.25	0.74	-73.4	
1407	.6	3.8	200	5.52	6.82	24.8	33697	0.22	1.67	-74.9	
1400	.6	4.4	200	5.52	6.81	24.9	33729	0.20	0.85	-76.9	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DOTTEN HAVER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1411	SAMPLING ENDED AT: 1412
PUMP OR TUBING DEPTH IN WELL (feet): 45	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW15S2	SAMPLE ID: FDSA-MW15S2-006.0-2020~~MMDD~~ 2208	DATE: 12-8-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 1 feet to 11 feet	STATIC DEPTH TO WATER (feet): 2.74	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ~~gallons~~ mL + (5.3 ~~gallons~~ mL/foot X 10 feet) + 200 mL ~~gallons~~ = 253 ~~gallons~~ mL

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6	PURGING INITIATED AT: 1058	PURGING ENDED AT: 1120	TOTAL VOLUME PURGED ~~(gallons)~~: 4.4 L

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (gpm) mL/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1108	2	2.0	200	2.75	4.22	24.6	48176	0.25	6.28	-2.9	none
1111	.6	2.6	200	2.76	4.33	24.6	48125	0.18	5.40	-10.6	
1114	.6	3.2	200	2.76	4.31	24.6	48036	0.16	4.10	-15.6	
1117	.6	3.8	200	2.76	4.30	24.6	48003	0.15	3.76	-19.0	
1120	.6	4.4	200	2.76	4.09	24.6	47971	0.15	3.08	-21.5	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DOTTENHAUER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1121	SAMPLING ENDED AT: 1122
PUMP OR TUBING DEPTH IN WELL (feet): 6	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW029	SAMPLE ID: FDSA-MW0029-015.0-2020~~MMDD~~ 21208	DATE: 12.08

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 4.19	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ~~gallons~~ + (5.3 ml ~~gallons~~/foot X 18 feet) + 200 ml ~~gallons~~ = 295 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15	PURGING INITIATED AT: 1230	PURGING ENDED AT: 1252	TOTAL VOLUME PURGED (~~gallons~~): 4.4 L

TIME	VOLUME PURGED (~~gallons~~) L	CUMUL. VOLUME PURGED (~~gallons~~) L	PURGE RATE (~~gpm~~) ml/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
12:40	2.0	2.0	200	4.21	4.30	25.3	32660	0.43	10.7	-109.3	none
12:43	.6	2.6	200	4.21	4.32	25.3	32787	0.33	13.4	-114.4	
12:46	.6	3.2	200	4.21	4.33	25.5	32974	0.28	9.75	-122.1	
12:49	.6	3.8	200	4.21	4.32	25.4	33033	0.24	12.9	-128.5	
12:52	.6	4.4	200	4.21	4.32	25.4	33026	0.22	12.2	-139.3	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DUTTENHAVER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1253	SAMPLING ENDED AT: 1254
PUMP OR TUBING DEPTH IN WELL (feet): 15	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW16S2	SAMPLE ID: FDSA-MW16S2-007.0-2020~~MMDD~~ 21208	DATE: 12-8-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 2.83	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ~~gallons~~ + (5.3 ~~gallons~~/foot X 10 feet) + 200 mL ~~gallons~~ = 253 mL ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 10:27	PURGING ENDED AT: 1044	TOTAL VOLUME PURGED ~~(gallons)~~: 4.4 L

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	PURGE RATE ~~(gpm)~~ mL/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1032	2.0	2.0	200	2.85	4.25	23.6	18545	0.27	9.10	124.0	none
1035	.6	2.6	200	2.85	4.22	23.6	18824	0.18	4.48	122.4	
1038	.6	3.2	200	2.85	4.21	23.6	18941	0.17	4.19	121.7	
1041	.6	3.8	200	2.85	4.20	23.7	19001	0.16	4.11	122.2	
1044	.6	4.4	200	2.85	4.21	23.7	19041	0.16	5.43	121.5	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DOTTENHAUER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1045	SAMPLING ENDED AT: 1046
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC's (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW048	SAMPLE ID: FDSA-MW0048-015.0-2020~~MMDD~~ 2208	DATE: 12-8-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 3.41	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ~~gallons~~ + (~~gallons~~/foot X 18 feet) + 200 ml ~~gallons~~ = ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15	PURGING INITIATED AT: 9:48	PURGING ENDED AT: 10:10	TOTAL VOLUME PURGED ~~(gallons)~~: 4.4 L

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	PURGE RATE ml/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
9:58	2.0	2.0	200	3.43	3.08	23.7	26725	0.30	8.72	240.0	none
1001	.6	2.6	200	3.43	3.03	23.7	28054	0.21	9.43	255.4	↓
1004	.6	3.2	200	3.43	3.01	23.7	28537	0.18	7.20	261.7	↓
1007	.6	3.8	200	3.43	3.02	23.8	28788	0.16	4.67	259.0	↓
1010	.6	4.4	200	3.43	3.00	23.8	28834	0.16	4.58	257.9	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DOTTENHAUER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:11	SAMPLING ENDED AT: 10:12
PUMP OR TUBING DEPTH IN WELL (feet): 15	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW031	SAMPLE ID: FDSA-MW0031-~~025.0~~-2020MMDD	DATE: 12-8-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 5 feet to 15 feet	STATIC DEPTH TO WATER (feet): 2.59	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ~~gallons~~ mL + (5.3 mL ~~gallons~~/foot X 18 ~~feet~~) + 200 mL ~~gallons~~ = ~~gallons~~ mL

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10	PURGING INITIATED AT: 0908	PURGING ENDED AT: 0932	TOTAL VOLUME PURGED ~~(gallons)~~: 4.4 L

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	PURGE RATE ~~(gpm)~~ mL/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
0918	2	2.0	200	2.61	3.20	23.7	21273	0.25	19.3	245.5	none
0921	.6	2.6	200	2.61	3.27	23.7	22688	0.22	16.4	239.0	
0924	.6	3.2	200	2.61	3.27	23.8	23031	0.20	16.1	241.1	
0927	.6	3.8	200	2.61	3.23	24.0	23101	0.19	08.7	243.1	
0932	.6	4.4	200	2.61	3.23	23.9	23146	0.17	4.89	241.1	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DOTTERWEICH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0933	SAMPLING ENDED AT: 0934
PUMP OR TUBING DEPTH IN WELL (feet): 10	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW050	SAMPLE ID: FDSA-MW0050-025.0-2020~~MMDD~~ 21208	DATE: 12-08-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 3.59	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ~~gallons~~ L + (5.3 ~~gallons~~ mL/foot X 28 feet) + 348 ~~gallons~~ mL = ~~gallons~~ mL

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 8:27	PURGING ENDED AT: 852	TOTAL VOLUME PURGED ~~(gallons)~~ 5.0L

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	PURGE RATE ~~(gpm)~~ mL/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
837	2	2.0	200	3.62	3.09	23.6	32238	0.26	21.2	287.9	none
840	.6	2.6	200	3.62	3.12	23.6	32231	0.22	33.3	291.7	
843	.6	3.2	200	3.63	3.09	23.6	32256	0.20	32.6	288.3	
846	.6	3.8	200	3.63	3.11	23.7	32242	0.19	30.9	288.6	
849	.6	4.4	200	3.63	3.11	23.7	32125	0.18	26.1	287.2	V
852	.6	5.0	200	3.63	3.12	23.7	32009	0.17	32.0	286.9	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DOTTER HAUER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 853	SAMPLING ENDED AT: 854
PUMP OR TUBING DEPTH IN WELL (feet): 25	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW047	SAMPLE ID: FDSA-MW0047-015.0-2020MMDD 21203	DATE: 12-8-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 3.57	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 L gallons + (5.3 mL gallons/foot X 18 feet) + 200 mL gallons = 295 mL gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15	PURGING INITIATED AT: 7:50	PURGING ENDED AT: 0812	TOTAL VOLUME PURGED (gallons): 4.4 L

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (mL/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
0800	2.0	2.0	200	3.57	3.36	23.6	10652	0.48	3.57	244.6	WAPP
0803	.6	2.6	200	3.58	3.39	23.6	10872	0.37	1.69	245.8	↓
0806	.6	3.2	200	3.58	3.37	23.6	10988	0.33	1.65	242.8	
0809	.6	3.8	200	3.59	3.37	23.6	11118	0.30	1.57	243.8	
0812	.6	4.4	200	3.59	3.34	23.7	11269	0.28	4.70	244.1	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DUTTEN HAVER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0813	SAMPLING ENDED AT: 0814
PUMP OR TUBING DEPTH IN WELL (feet): 15	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FSRA-FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW000352	SAMPLE ID: FDSA-MW000352-0130-20221209	DATE: 12-9-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet	STATIC DEPTH TO WATER (feet): 3.28	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ~~gallons~~ mL + (5.3 ~~gallons~~ mL/foot X 18 feet) + 200 mL ~~gallons~~ = 295 mL ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13	PURGING INITIATED AT: 1141	PURGING ENDED AT:	TOTAL VOLUME PURGED ~~(gallons)~~: 4.4 L

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	~~ml/min~~ PURGE RATE ~~(gpm)~~	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) 12:03	ORP (mV)	COLOR/ ODOR (describe)
1151	2.0	2.0	200	3.30	6.10	25.0	242.3	0.29	4.47	-130.2	none
1154	.6	2.6	200	3.31	6.10	25.0	243.6	0.27	3.34	-133.2	
1157	.6	3.2	200	3.31	6.08	24.9	244.6	0.26	2.67	-135.1	
12:00	.6	3.8	200	3.31	6.06	24.9	243.7	0.26	~~2.67~~	-135.8	
12:03	.6	4.4	200	3.31	6.08	24.8	244.4	0.27	1.48	-138.0	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1204	SAMPLING ENDED AT: 1205

PUMP OR TUBING DEPTH IN WELL (feet): 13	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N (replaced)) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW040	SAMPLE ID: FDSA-MW0040-015.0-21209 ~~20MMDD~~	DATE: 12-9-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 5,41	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ~~gallons~~ + (5.3 ~~gallons~~/foot X 10 feet) + 200 ~~gallons~~ = 295 ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15	PURGING INITIATED AT: 11:05	PURGING ENDED AT: 11:27	TOTAL VOLUME PURGED ~~(gallons)~~: 4,4 L

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	mL PM PURGE RATE ~~(gpm)~~	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
11 15	.2	2.0	200	5.43	5.94	27.9	552	0.12	5.00	-109.4	none
1118	.6	2.6	200	5.43	5.90	27.8	481.7	0.13	3.04	-118.9	
1121	.6	3.2	200	5.43	5.92	27.9	467.5	0.11	2.87	-126.5	
1124	.6	3.8	200	5.43	5.93	27.9	466.5	0.11	2.40	-131.6	
1127	.6	4.4	200	5.43	5.94	27.9	467.7	0.11		-133.3	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DUTTON HAVER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:28	SAMPLING ENDED AT: 11:29
PUMP OR TUBING DEPTH IN WELL (feet): 15	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW034	SAMPLE ID: FDSA-MW0034-025.0-2021209 ~~MMDD~~	DATE: 12-9-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 5.64	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ml ~~gallons~~ + (4.3 ml ~~gallons~~/foot X 28 feet) + 200 ml ~~gallons~~ = 348 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 1037	PURGING ENDED AT: 1054	TOTAL VOLUME PURGED ~~(gallons)~~: 4.4 L

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	L/min PURGE RATE ~~(gpm)~~	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1042	2	2.0	200	5.66	3.15	26.9	11408	0.18	4.45	243.1	none
1045	.6	2.6	200	5.66	3.16	27.0	11869	0.16	4.22	242.7	
1048	.6	3.2	200	5.66	3.18	27.0	12040	0.15	5.73	241.6	
1051	.6	3.8	200	5.66	3.20	27.0	12098	0.15	2.94	241.5	
1054	.6	4.4	200	5.66	3.21	27.1	12147	0.14	3.61	239.9	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DUTTENHAVER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1055	SAMPLING ENDED AT: 1056

PUMP OR TUBING DEPTH IN WELL (feet): 25	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW044	SAMPLE ID: FDSA-MW0044-025.0-2020~~MMDD~~ 21209	DATE: 12-9-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 8.64	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ml ~~gallons~~ + (5.3 ml ~~gallons~~/foot X 28 Ft ~~feet~~) + 200 ml ~~gallons~~ = 348 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 9:59	PURGING ENDED AT: 10:21	TOTAL VOLUME PURGED ~~(gallons)~~: 4.4 L

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	ml/min PURGE RATE ~~(gpm)~~	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
10:09	2.0	2.0	200	8.66	3.23	26.5	13945	0.25	3.60	253.6	none
10:12	.6	2.6	200	8.66	3.21	26.5	14397	0.22	6.46	254.5	
10:15	.6	3.2	200	8.67	3.19	26.5	14785	0.18	3.73	256.7	
10:18	.6	3.8	200	8.67	3.19	26.7	14895	0.18	8.31	253.4	
10:21	.6	4.4	200	8.67	3.19	26.7	15061	0.16	2.69	253.0	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1022	SAMPLING ENDED AT: 1023

PUMP OR TUBING DEPTH IN WELL (feet): 25	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW036	SAMPLE ID: FDSA-MW0036-045.0-2021209 ~~MMDD~~	DATE: 12-9-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 40 feet to 50 feet	STATIC DEPTH TO WATER (feet): 4.93	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ml ~~gallons~~ + (ml ~~gallons~~/foot X 48 feet) + 200 ml ~~gallons~~ = 450 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 45	PURGING INITIATED AT: 921	PURGING ENDED AT: 943	TOTAL VOLUME PURGED ~~(gallons)~~: 4.4 L

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	ml/min PURGE RATE ~~(gpm)~~	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
931	2.0	2.0	200	4.95	7.15	23.8	34432	0.31	13.3	-124.0	none
934	.6	2.6	200	4.95	7.15	23.9	36616	0.21	14.8	-136.0	none
937	.6	3.2	200	4.95	7.13	23.9	37924	0.19	11.0	-142.7	
940	.6	3.8	200	4.95	7.12	24.0	39121	0.22	15.7	-145.0	
943	.6	4.4	200	4.95	7.13	24.0	39623	0.24	11.4	-148.0	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DUTTON HAUER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 944	SAMPLING ENDED AT: 945

PUMP OR TUBING DEPTH IN WELL (feet): 45	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N (replaced)) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW17D1	SAMPLE ID: FDSA-MW17D1-044.5-2020~~MMDD~~ 21209	DATE: 12-9-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 42 feet to 47 feet	STATIC DEPTH TO WATER (feet): 5.09	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ~~gallons~~ + (5.3 ml ~~gallons~~/foot X 48 feet) + 200 ml ~~gallons~~ = 430 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 44.5	PURGING INITIATED AT: 843	PURGING ENDED AT: 9:09	TOTAL VOLUME PURGED ~~(gallons)~~: 4.4 L

TIME	VOLUME PURGED ~~(gallons)~~ L	CUMUL. VOLUME PURGED ~~(gallons)~~ L	ml/min PURGE RATE ~~(gpm)~~	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
8:53	2.0	2.0	200	5.71	6.67	23.7	39700	0.40	5.70	-42.0	none
8:56	.6	2.6	200	5.71	6.67	23.8	39703	0.26	2.86	-44.9	↓
8:59	.6	3.2	200	5.71	6.67	23.8	39712	0.23	9.10	-45.8	
9:02	.6	3.8	200	5.71	6.68	23.8	39700	0.21	1.85	-45.6	
9:05	.6	4.4	200	5.71	6.68	23.9	39670	0.22	1.98	-46.6	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W D DUTTENHAVER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 9:06	SAMPLING ENDED AT: 9:07

PUMP OR TUBING DEPTH IN WELL (feet): 44.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N (replaced)) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW038	SAMPLE ID: FDSA-MW0038-045.0-2020~~MMDD~~ 21209	DATE: 12-9-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 40 feet to 50 feet	STATIC DEPTH TO WATER (feet): 5.88	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 ml gallons + (5.3 ml gallons/foot X 45 feet) + 200ml ~~gallons~~ = 438 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 45	PURGING INITIATED AT: 8:04	PURGING ENDED AT: 8:37	TOTAL VOLUME PURGED (~~gallons~~): 5 L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
814	2.0	2.0	200	5.90	6.86	23.5	37289	0.30	13.7	-78.2	none
817	.6	2.6	200	5.90	6.84	23.5	37397	0.49	48.3	-77.7	↓
820	.6	3.2	200	5.90	6.83	23.5	37507	0.43	36.1	-76.8	
823	.6	3.8	200	5.90	6.82	23.6	37454	0.35	28.9	-77.0	
826	.6	4.4	200	5.90	6.82	23.6	37628	0.29	25.0	-77.3	↓
829	.6	5.0	200	5.90	6.81	23.7	37743	0.26	19.8	-77.7	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W Doffen Hauer	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 8:30	SAMPLING ENDED AT: 831
PUMP OR TUBING DEPTH IN WELL (feet): 45	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: PBSA	SITE LOCATION: KSC	
WELL NO: PBSA-MW0034	SAMPLE ID: PBSA-MW0034-045.0-2022121 2	DATE: 12-12-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 40 feet to 50 feet	STATIC DEPTH TO WATER (feet): 2.62	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X liters/foot = liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 milliters + (5.3 milliters/foot X 48 feet) + 200 milliters = 454 milliters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 45	PURGING INITIATED AT: 1156	PURGING ENDED AT: 1218	TOTAL VOLUME PURGED (liters): 4.4

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1206	2	3.0	200	2.64	7.36	24.1	442.5	0.53	6.79	-74.7	none
1209	.6	2.6	200	2.64	7.28	24.1	486.0	0.35	2.17	-91.6	|
1212	.6	3.2	200	2.64	7.24	24.3	490.6	0.34	2.11	-94.7	|
1215	.6	3.8	200	2.64	7.27	24.2	488.0	0.29	1.41	-97.4	|
1218	.6	4.4	200	2.64	7.22	24.2	503.0	0.37	4.37	-100.6	|

WELL CAPACITY (Liters Per Foot): **0.75"** = 0.076; **1"** = 0.151; **1.25"** = 0.227; **2"** = 0.606; **3"** = 1.401; **4"** = 2.461; **5"** = 3.861; **6"** = 5.565; **12"** = 22.258
TUBING INSIDE DIA. CAPACITY (ml./Ft.): **1/8"** = 2.271; **3/16"** = 5.300; **1/4"** = 9.842; **5/16"** = 15.142; **3/8"** = 22.712; **1/2"** = 37.854; **5/8"** = 60.567

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: WILLIAM DUTTON HAVERFIELD	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1217	SAMPLING ENDED AT: 1220
PUMP OR TUBING DEPTH IN WELL (feet): 45	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: PBSA	SITE LOCATION: KSC	
WELL NO: PBSA-MW0015	SAMPLE ID: PBSA-MW0015-045.0-20221212	DATE: 12-12-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 40 feet to 50 feet	STATIC DEPTH TO WATER (feet): 6.76	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X liters/foot = liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 mliters + (5.3 mliters/foot X 48 feet) + 200 mliters = 454 mliters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 45	PURGING INITIATED AT: 1112	PURGING ENDED AT: 1134	TOTAL VOLUME PURGED (liters): 4.4

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (Lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1122	2.0	2.0	200	6.78	6.96	23.8	825	0.50	5.01	-54.2	none
1125	.6	2.6	200	6.78	6.94	23.7	837	0.37	1.64	-56.5	
1128	.6	3.2	200	6.78	6.95	23.8	834	0.33	1.56	-58.2	
1131	.6	3.8	200	6.78	6.96	23.7	837	0.30	1.80	-60.6	
1134	.6	4.4	200	6.78	6.97	23.7	838	0.28	1.72	-63.3	

WELL CAPACITY (Liters Per Foot): **0.75"** = 0.076; **1"** = 0.151; **1.25"** = 0.227; **2"** = 0.606; **3"** = 1.401; **4"** = 2.461; **5"** = 3.861; **6"** = 5.565; **12"** = 22.258
TUBING INSIDE DIA. CAPACITY (ml./Ft.): **1/8"** = 2.271; **3/16"** = 5.300; **1/4"** = 9.842; **5/16"** = 15.142; **3/8"** = 22.712; **1/2"** = 37.854; **5/8"** = 60.567

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: WILLIAM DOTTEN HACH/HCL	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1135	SAMPLING ENDED AT: 1136
PUMP OR TUBING DEPTH IN WELL (feet): 45	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: PBSA	SITE LOCATION: KSC	
WELL NO: PBSA-MW0031	SAMPLE ID: PBSA-MW0031-045.0-2022 12 12	DATE: 12-12-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: 40 feet to 50 feet	STATIC DEPTH TO WATER (feet): 5.71	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X Liters/foot = Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 Liters + (5.3 M Liters/foot X 48 feet) + 200 Liters = 454 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 45	PURGING INITIATED AT: 10:37	PURGING ENDED AT: 1059	TOTAL VOLUME PURGED (Liters): 4.4

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1047	2	2.0	200	5.73	6.95	24.0	795	0.41	2.85	-80.7	none
1050	.6	2.6	200	5.73	6.94	23.9	812	0.33	2.63	-75.9	
1053	.6	3.2	200	5.73	6.95	23.7	813	0.27	1.88	-75.6	
1056	.6	3.8	200	5.73	6.92	23.9	815	0.23	1.76	-76.7	
1059	.6	4.4	200	5.73	6.99	23.8	815	0.23	1.79	-78.0	

WELL CAPACITY (Liters Per Foot): **0.75"** = 0.076; **1"** = 0.151; **1.25"** = 0.227; **2"** = 0.606; **3"** = 1.401; **4"** = 2.461; **5"** = 3.861; **6"** = 5.565; **12"** = 22.258
TUBING INSIDE DIA. CAPACITY (ml./Ft.): **1/8"** = 2.271; **3/16"** = 5.300; **1/4"** = 9.842; **5/16"** = 15.142; **3/8"** = 22.712; **1/2"** = 37.854; **5/8"** = 60.567

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: WILLIAM DUTTENHAUER / HGL	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:00	SAMPLING ENDED AT: 11:01
PUMP OR TUBING DEPTH IN WELL (feet): 45	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: PBSA	SITE LOCATION: KSC	
WELL NO: PBSA-MW0037	SAMPLE ID: PBSA-MW0037-045.0-20221212	DATE: 12-12-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 40 feet to 50 feet	STATIC DEPTH TO WATER (feet): 5.14	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X liters/foot = liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 liters + (5.3 ml liters/foot X 40 feet) + 200 ml liters = 454 liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 45	PURGING INITIATED AT: 10:03	PURGING ENDED AT: 10:24	TOTAL VOLUME PURGED (liters): 4.4

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
10 13	2	2.0	200	5.16	7.07	23.8	885	0.27	9.81	-74.5	none
10 15	.6	2.6	200	5.17	7.06	23.5	903	0.41	7.90	-76.9	↓
10 18	.6	3.2	200	5.17	7.06	23.6	915	0.33	3.05	-79.2	
10 21	.6	3.8	200	5.17	7.06	23.8	929	0.27	1.55	-80.8	
10 24	.6	4.4	200	5.17	7.04	23.7	960	0.25	1.49	-82.2	↓

WELL CAPACITY (Liters Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W. DOTTENHAVER/H&L	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:25	SAMPLING ENDED AT: 10:25

PUMP OR TUBING DEPTH IN WELL (feet): 45	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N (replaced)) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

321 391 3668

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: PBSA	SITE LOCATION: KSC	
WELL NO: PBSA-MW0035	SAMPLE ID: PBSA-MW0035-045.0-20221212	DATE: 12-17-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 40 feet to 50 feet	STATIC DEPTH TO WATER (feet): 6.07	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (5.3 feet – 48 feet) X liters/foot = liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 liters + (5.3 liters/foot X 48 feet) + 200 ml liters = 454 liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 45	PURGING INITIATED AT: 0924	PURGING ENDED AT: 0944	TOTAL VOLUME PURGED (liters): 4.4

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
0934	2	2.0	200	6.04	7.19	23.8	~~436~~	0.30	2.29	-102.8	none
0937	.6	2.6	200	6.05	7.14	23.8	935	0.36	1.55	-99.1	
0940	.6	3.2	200	6.05	7.13	23.8	957	0.35	0.77	-97.1	
0941	.6	3.8	200	6.05	7.15	23.9	955	0.31	1.25	-96.8	
0944	.6	4.4	200	6.05	7.16	23.8	947	0.28	4.50	-96.2	

WELL CAPACITY (Liters Per Foot): **0.75"** = 0.076; **1"** = 0.151; **1.25"** = 0.227; **2"** = 0.606; **3"** = 1.401; **4"** = 2.461; **5"** = 3.861; **6"** = 5.565; **12"** = 22.258
TUBING INSIDE DIA. CAPACITY (ml./Ft.): **1/8"** = 2.271; **3/16"** = 5.300; **1/4"** = 9.842; **5/16"** = 15.142; **3/8"** = 22.712; **1/2"** = 37.854; **5/8"** = 60.567

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DUTTON HAUER/H&L	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 45	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: PBSA	SITE LOCATION: KSC	
WELL NO: PBSA-MW0036	SAMPLE ID: PBSA-MW0036-045.0-2022122	DATE: 12-12-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 40 feet to 50 feet	STATIC DEPTH TO WATER (feet): 3.89	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X liters/foot = liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 liters + (5.3 liters/foot X 48 feet) + 200 m liters = 454 m liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 45	PURGING INITIATED AT: 847	PURGING ENDED AT: 0909	TOTAL VOLUME PURGED (liters): 4.4

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
857	2	2.0	200	3.91	7.15	22.8	1276	0.61	0.71	-56.0	none
0900	.6	2.6	200	3.91	7.15	22.8	1200	0.49	0.53	-65.2	"
0903	.6	3.2	200	3.92	7.15	22.8	1187	0.42	0.92	-71.4	"
0906	.6	3.8	200	3.92	7.15	23.0	1167	0.39	0.54	-75.4	"
0909	.6	4.4	200	3.92	7.15	23.0	1159	0.34	0.78	-77.0	"

WELL CAPACITY (Liters Per Foot): **0.75"** = 0.076; **1"** = 0.151; **1.25"** = 0.227; **2"** = 0.606; **3"** = 1.401; **4"** = 2.461; **5"** = 3.861; **6"** = 5.565; **12"** = 22.258
TUBING INSIDE DIA. CAPACITY (ml./Ft.): **1/8"** = 2.271; **3/16"** = 5.300; **1/4"** = 9.842; **5/16"** = 15.142; **3/8"** = 22.712; **1/2"** = 37.854; **5/8"** = 60.567

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W DUTTER HAVER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0910	SAMPLING ENDED AT: 0911
PUMP OR TUBING DEPTH IN WELL (feet): 45	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: PBSA	SITE LOCATION: KSC	
WELL NO: PBSA-MW0005	SAMPLE ID: PBSA-MW0005-035.0-2022/2 12	DATE: 12-12-22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 30 feet to 40 feet	STATIC DEPTH TO WATER (feet): 3.17	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X Liters/foot = liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 m liters + (5.3 m liters/foot X 38 feet) + 700 m liters = 401 m liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35	PURGING INITIATED AT: 1248	PURGING ENDED AT: 1310	TOTAL VOLUME PURGED (liters): 4.4

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (Lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1258	2	2.0	200	3.19	7.16	22.9	795	0.23	1.63	-65.4	none
1301	.6	2.6	200	3.19	7.17	22.9	768	0.22	0.80	-71.4	|
1304	.6	3.2	200	3.19	7.15	22.9	752	0.27	0.60	-73.8	|
1307	.6	3.8	200	3.19	7.15	23.0	747	0.26	0.73	-75.9	|
1310	.6	4.4	200	3.19	7.15	22.9	741	0.23	0.68	-77.5	|

WELL CAPACITY (Liters Per Foot): **0.75"** = 0.076; **1"** = 0.151; **1.25"** = 0.227; **2"** = 0.606; **3"** = 1.401; **4"** = 2.461; **5"** = 3.861; **6"** = 5.565; **12"** = 22.258
TUBING INSIDE DIA. CAPACITY (ml./Ft.): **1/8"** = 2.271; **3/16"** = 5.300; **1/4"** = 9.842; **5/16"** = 15.142; **3/8"** = 22.712; **1/2"** = 37.854; **5/8"** = 60.567

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: W. DUTTER / HAGER HGL	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1311	SAMPLING ENDED AT: 1312

PUMP OR TUBING DEPTH IN WELL (feet): 35	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N (replaced)) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40ml	HCL	NA	NA	VOC;s (8260B)	APP	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Location ASC Date 12-7-22

Project / Client EDSA

PURPOSE: GW SAMPLING
PERSONNEL: B HOSTON & DUTTENHAVER
EQUIP: YSI PRO, HACH 2100Q & LaMotte
WEATHER: PCL CLOUD 20s 72 H,680
H, SAT WIND 07:00 T6SM
07:57 ON SITE MW0033
0837 SAMPLE MW0033
0848 SET UP AT MW0045
0937 SAMPLE MW0045
0944 SET UP AT MW0052
1011 SAMPLED MW0052
1020 SET UP AT MW0051
1045 SAMPLE MW0051
1053 - SETUP AT MW0059
1119 SAMPLE MW0059
1127 SET UP AT MW0175
1155 SAMPLE MW0175
1206 SET UP AT MW0025S
1231 SAMPLED MW0025S
1239 SET UP AT MW0145Z
1305 SAMPLED MW0145Z
1316 SET UP AT MW0058
1343 SAMPLED MW0058
1353 SET UP AT MW0057

Rite in the Rain

142

Location FDSA Date 12-7-22

Project / Client KSC / NASA

Location

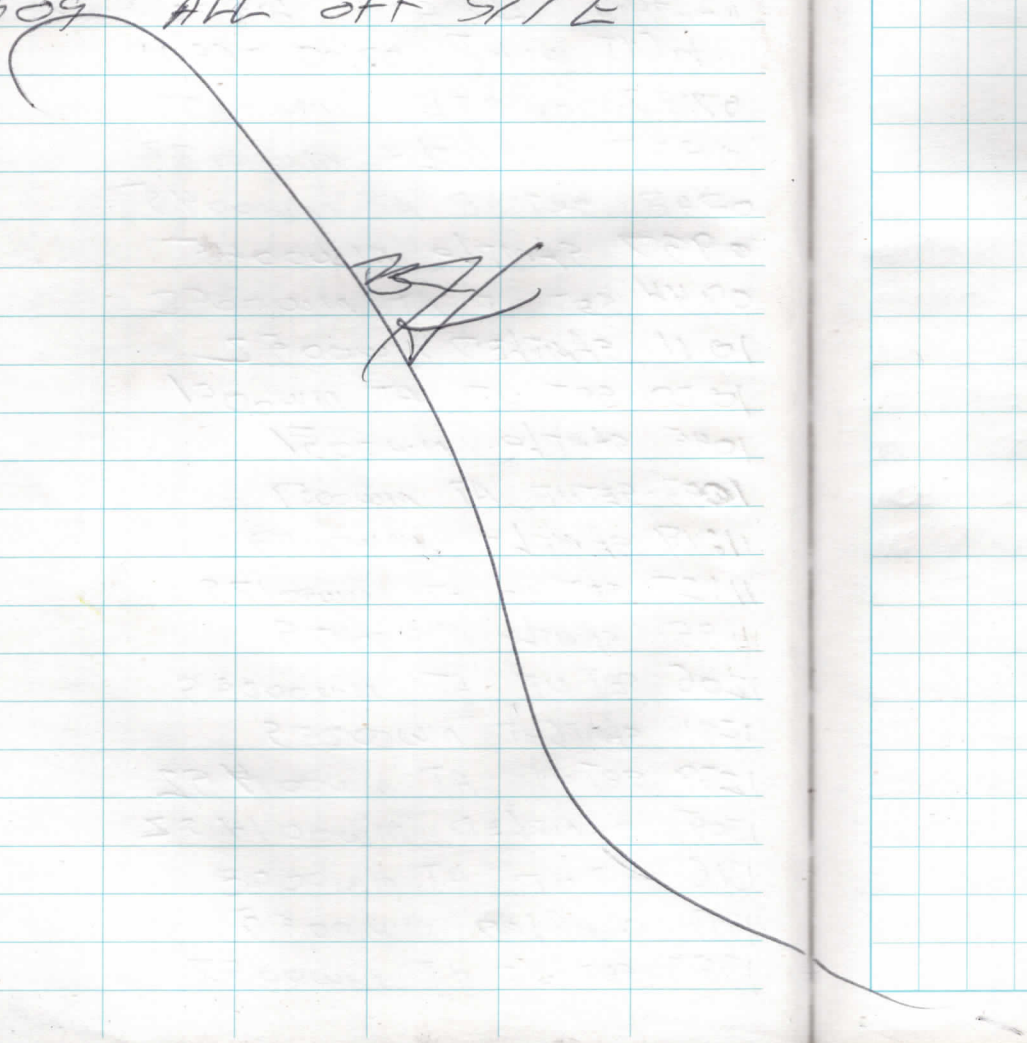
Project / Client

1419 SAMPLED MW0057

1430 SET UP ON MW0055

1455 SAMPLED MW0055

1505 ALL OFF SITE



Date 12-7-22

ASA

MW0057
MW0055
W0055
SITE

Location FDSA Date 12-8-22

Project / Client KSC/NASA

PURPOSE: GW SAMPLING
PERSONEL: B HUSTON, K. MITTENHAUER
EQUIP: YSI PRO, HACH 2100Q WATER LEVEL METER.

0715 TGSM
0735 ONSITE
0740 SETUP AT MW0047
0813 SAMPLED MW0047
0825 SETUP AT MW0050
0853 SAMPLE MW0050
0900 SETUP AT MW0031
0933 SAMPLE MW0031
0944 SETUP ON MW0048
1011 SAMPLE MW0048
1019 SETUP AT MW0016SZ
1045 SAMPLE MW0016SZ
1050 SETUP AT MW0015SZ
1121 SAMPLE MW0016SZ
1137 SETUP AT MW0022SZ
1204 SAMPLE AT MW0022SZ
1220 SET UP AT MW0029
1253 SAMPLE MW0029
1300 SET UP AT MW0035
1329 SAMPLE MW0035

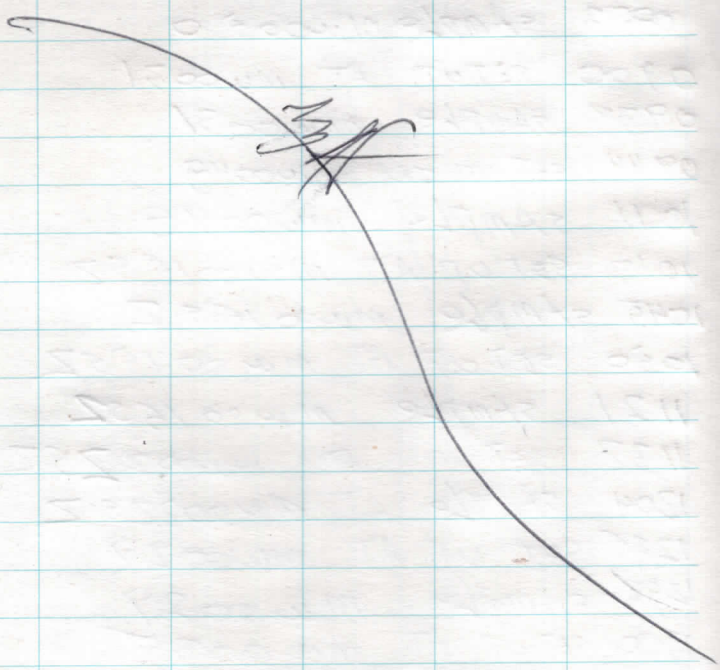
Rite in the Rain

144

Location RDSA Date 12-8-22

Project / Client FSRA / KSC NASA

1340 SETUP AT MW0039
1411 SAMPLE MW0039
1420 MOBILIZE TO CCF
IDW AREA
PLACE APPROX 20 GAL
IDW IN DRUM
1445 ALL OFF SITE, RETURN
TO FIELD OFFICE



Location

Project / Client

Location FDSA Date 12-9-22

Project / Client FDSA / NASA KSC

PURPOSE: GW SAMPLING

PERSONEL; B HOSTON W DOTTENHAVER

EQUIP; YSI PRO; HACH 2100Q, WATER LEVEL METER

WEATHER: LOW 70 HIGH 80 PTLY CLOUDY LIGHT WIND

0700 765M

792 SET UP AT MW0038

830 SAMPLE MW0038

838 SET UP MW0017D1

0936 SAMPLE MW0017D1

0947 SET UP AT FDSA-MW0036

0944 SAMPLE MW0036

0956 SET UP AT MW0044

1026 SAMPLE MW0044

1029 SET UP AT MW0034

1055 SAMPLE MW0034

1103 SET UP AT MW0040

1128 SAMPLE MW0040

1139 SET UP AT MW0352

1209 SAMPLE MW0352

1210 MOB TO REF IDW STORAGE.

1215 TRANSFER APPROXIMATELY 10 GALS IDW TO IDW DRUM

1230 RETURN TO FIELD OFFICE

Rite in the Rain

Location PSFA Date 12-12-22

Project / Client FSRA / NASA - KSC

PURPOSE: GW SAMPLING

PERSONNEL: B HUSTON W DUTTER HAUER

EQUIP: YSI PRO, HACH 2100Q, WATER LEVEL METER

WEATHER: LOW 70s HIGH 80s, PTLY CLOUDY, LIGHT WIND

0830 ONSITE PSFA

0839 SET UP ON MW0036

0910 SAMPLE MW0036

0920 SET UP ON MW0035

0945 SAMPLE MW0035

1000 SET UP AT MW0037

1025 SAMPLE MW0037

1033 SET UP AT MW0031

11:00 SAMPLE MW0031

11:08 SET UP AT MW0015

11:35 SAMPLE MW0015

11:50 SET UP AT MW0034

1219 SAMPLE MW0034

1240 SET UP A MW0005

1311 SAMPLE MW0005

UNABLE TO ACCESS MW0019 DUE TO GATOR NEXT

1330 ALL RETURN TO FIELD OFFICE

The manufacturers of *Rite in the* the numerous environmental exp this book. Should you have any a publications of this field book or h formats, we welcome your input.

Although much effort has been take pages, J L Darling LLC cannot guar

To provide input or solicit pricing your *Rite in the Rain* dealer or J L D

www.RiteintheRain

Common F

Error codes are used to explain c and are written above or close to Commonly used error codes inclu

- RE Recording Error
- CE Calculation Error
- TE Transcription Error
- SE Spelling Error
- CL Changed for Clarity
- DC Original Sample Descrip Changed After Further
- WO Write Over
- NI Not Initialed and Dated
- OB Not Recorded at the Ti

Note: Error code should be circled

Hazar

Class 1 Explosives
Class 2 Gas
Class 3 Flammable Liquid
Class 4 Flammable Solids (Potenti emission of flammable
Class 5 Oxidizing Substances and
Class 6 Toxic (poisonous) and infe
Class 7 Radioactive material
Class 8 Corrosives
Class 9 Miscellaneous dangerous g

Container type abbrevi

BR - Boston Round • ABR - A
AWM - Amber Wide Mouth • P CWM

Daily Quality Control Report

HGL HydroGeoLogic, Inc Exceeding Expectations	Daily Quality Control Report
Date:	**12/22/2022**
NASA Remediation Project Manager:	Natasha Darre
HGL Program Manager	Janardan Patel
HGL Project Manager:	Carol Cady
Contract No.	80KSC019D0012
Task Order No.	80KSC019F0096
Project Name:	FSRA-FDSA
Project No.	NS1002.05.06

Day	S	M	T	W	TH	F	S
					X		

Weather	Bright Sun	Clear	Overcast	Rain	Fog
			X	X	

Temp	Min.	Max.
	58	75

Wind	Still	Moderate	High	Gust
		X		

Humidity	Dry	Moderate	High	Rainfall
		X		

1. List of On-Site Personnel:

1.1 List of HGL Personnel Onsite

HGL Employee Name	Position	Location	Hours	Non-Hours	Total Hours
Jason Bublitz	Senior Scientist	FDSA	5	0	5
Parker Duttenhaver	Field Technician	FDSA	5	0	5
TOTAL HGL PERSONNEL ONSITE		**2**	**TOTAL HOURS WORKED**		**10**

1.2 List of GOV. Personnel Onsite

Personnel Onsite	Affiliation / Position	Location	Est. Total Hours
TOTAL GOV PERSONNEL ONSITE		**0**	**0**

1.3 Subcontractors Onsite

Employee Name	Company / Position	Location	Hours	Non-Hours	Total Hours
TOTAL SUBCONTRACTOR PERSONNEL ONSITE		**0**	**TOTAL HOURS WORKED**		**0**

2. List of Equipment

2.1 Heavy Equipment

Equipment	Date Arrived/Departed	Date of Safety Check	Hours Used	Hours Idle	Hours Repair

2.2 Instrumentation & Equipment

Description Of Instrumentation	Date Arrived/Departed	Pre/Post Calibration Conducted	Cal Form Completed	Pass / Fail	Hours Used
YSI Pro - 3510-1368	12/22/22	Yes	Yes	Pass	5
Hach 2100Q - 3550-1360	12/22/22	Yes	Yes	Pass	5

Daily Quality Control Report

3. Field Activities

DFOW / ACTIVITY / DELIVERIES	S = Start C = Continuing F = Finish	Description of Work Actually Performed / Material Deliveries
Collect Ground Water Samples At FDSA.	**S/F**	Resampled 5 wells and collected sample from MW0061 (well not sampled by error)

4. Testing and Sampling Activities

4.1 Sampling Conducted

Location	Analysis	Results - Detected / Not Detected
FDSA - MW0048	VOC's - TCE, cDCE, tDCE, VC	Awaiting Lab Results
FDSA - MW0045		
FDSA - MW0051		
FDSA - MW0061		
FDSA - MW0039		
FDSA - MW0038		

5. Job Safety: (TGSM Topics, Report violations, instructions given, corrective action taken)

Biologicals, Pinch Points, Chemical Exposure, Heat Exposure, Traversing to Wells, Slips, Trips and Falls.

6. Description of Work Completed

Refer to logbook entry.

7. 3-PHASE INSPECTION (Preparatory / Initial / Final Follow-Up)

Name of Inspection Held	Gov. Notified (Y/N)	Definable Feature of Work	Checklist Completed

I Certify that I am the Contractor's Authorized Representative and that the above information stated in this Daily Activity Report is accurate and representative of the work completed.

Printed Name: Jason Bublitz	**12/23/2022**
Signature: Jason Bublitz	**12/23/2022**

I Certify that I am the Contractor's Authorized Quality Control Representative and that this Daily Activity Report conforms with all appropriate and approved Work Plan Statement of Work.

Printed Name: Jason Bublitz	**12/23/2022**
Signature: Jason Bublitz	**12/23/2022**

FC1584

SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : PAGE 1 OF 1

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: HGL, Inc.
Address: 2405 N. Courtney Parkway, STE 203
City: Merrit Island State: FL Zip:32937
Project Contact: Denise Rivers Email:drivers@hgl.com
Phone #:910-233-8460
Sampler(s) Name(s) (Printed)
Sampler 1: Jason Bublitz Sampler 2: William Duttenhaver

Project Information

Project Name: FSRA LTM Sampling
Street Kennedy Space Center
City Merritt Island State FL
Project # NS1002.05.08
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	8260STD VOCs - cDCE, tDCE, VC, TCE	LAB USE ONLY
1	FDSA-MW0048-015.0-20221222	12/22/22	0855	JB	GW	3			X							X	
2	FDSA-MW0045-025.0-20221222	12/22/22	0937	JB	GW	3			X							X	
3	FDSA-MW0051-025.0-20221222	12/22/22	1016	JB	GW	3			X							X	
4	FDSA-MW0061-007.0-20221222	12/22/22	1100	JB	GW	3			X							X	
5	FDSA-MW0039-045.0-20221222	12/22/22	1139	JB	GW	3			X							X	
6	FDSA-MW0038-045.0-20221222	12/22/22	1226	JB	GW	3			X							X	
7	FDSA-TB0001-000.0-20221222	12/22/22	0800	JB	GW	3			X							X	

Turnaround Time (Business days)

X 10 Day (Business) Approved By: / Date:
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

INITIAL ASSESSMENT ZB
LABEL VERIFICATION
1615 12/23/22

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	RL Duttenhaver/HGL	12/23/22 10:45	2 K Fahy	3	12/23/22 16:16	4 ~~1615~~ ZB 12/24/22
5	Relinquished by/Affiliation	Date Time:	6 Received By/Affiliation	7 Relinquished By/Affiliation	Date Time:	8 Received By/Affiliation

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 1.2 IR1

http://www.sgs.com/en/terms-and-conditions

HGL
HydroGeoLogic, Inc.
Exceeding Expectations

SAFETY MEETING/TRAINING LOG

- ☐ Tailgate (daily)
- ☐ Activity Hazard Analysis
- ☐ Pre-Task Hazard Analysis (prior to new task or operation)
- ☐ Site Safety Orientation (new personnel)
- ☐ Supervisor's (monthly)
- ☐ Supervisor's (weekly)
- ☐ UXO Awareness
- ☐ Asbestos Awareness
- ☐ Health and Safety Plan Addendum: _____
- ☐ Other: ___

Date/Time: 12/22/22 07:00 Client: NASA / KSC

Location: ESRA/FDSA Job No.: NS1002.05.06

Meeting/training conducted by: William Duttenhaver

Work Activities: Groundwater sampling

Safety / Training Topics Presented

Chemical Hazards: HCL Preservatives

Physical Hazards: Slips, trips, falls, biologicals, heat stress

Specific Safety Topic(s): off-Road driving and Covid-19

Specific Training Covered: Working in the woods and being aware of your surroundings

Attendees

Name Printed and Employee Number:	Signature:
William Duttenhaver	
Jason Bublik	

HGL
HydroGeoLogic, Inc.

CALIBRATION LOG

Project Name: FSRA/FDSA

By: William Duttenhaver

Project No.: NS1002.05.06

Page 1 of 1

Date/Time	Instrument	STD	STD CONC ppm	Meter Reading	Comments
12/22/22 06:00	YSI Pro - 3510-1368	conductivity	1.413 mS/cm	1.43	Pass
"	"	ORP	240.0 MV	240.9	Pass
"	"	PH	4	4.02	Pass
"	"	PH	7	6.99	Pass
"	"	PH	10	9.97	Pass
"	"	DO%	SaT Air	100.5	Pass
12/22/22 06:30	HACH 2100Q-3550-1360	NTU	20	20.1	Pass
"	"	NTU	100	99.4	Pass
"	"	NTU	800	801	Pass
"	"	NTU	10	9.93	Pass

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW0038	SAMPLE ID: FDSA-MW0038-045.0-20221222	DATE: 12-22-22

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 40 feet to 50 feet	STATIC DEPTH TO WATER (feet): 5.52	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (50 feet – 5.52 feet) X 0.15' Liters/foot = 6.7 liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= liters + (5.3 liters/foot X 48 feet) + 200 liters = 454 liters MC

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 45	PURGING INITIATED AT: 1202	PURGING ENDED AT: 1224	TOTAL VOLUME PURGED (liters): 4.4

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (Lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1212	2.0	2.0	200	6.15	6.73	23.8	37049	0.31	27.3	-57.2	clear/none
1215	0.6	2.6	↓	6.13	6.67	23.7	37166	0.30	16.9	-53.6	↓
1218	0.6	3.2		6.13	6.67	23.9	37251	0.24	17.0	-52.8	
1221	0.6	3.8		6.13	6.69	23.8	37245	0.23	14.5	-52.8	
1224	0.6	4.4		6.13	6.66	23.8	37205	0.22	13.4	-50.3	

WELL CAPACITY (Liters Per Foot): **0.75"** = 0.076; **1"** = 0.151; **1.25"** = 0.227; **2"** = 0.606; **3"** = 1.401; **4"** = 2.461; **5"** = 3.861; **6"** = 5.565; **12"** = 22.258
TUBING INSIDE DIA. CAPACITY (ml./Ft.): **1/8"** = 2.271; **3/16"** = 5.300; **1/4"** = 9.842; **5/16"** = 15.142; **3/8"** = 22.712; **1/2"** = 37.854; **5/8"** = 60.567

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jason Bublith / HGL	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1226	SAMPLING ENDED AT: 1228
PUMP OR TUBING DEPTH IN WELL (feet): 45	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW0038	3	CG	40ml	HCL	NA	NA	TCE,cDCE,TDCE (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW0039	SAMPLE ID: FDSA-MW0039-045.0-20221222	DATE: 12-22-22

PURGING DATA

WELL DIAMETER (Inches): 1	TUBING DIAMETER (Inches): ¼"	WELL SCREEN INTERVAL DEPTH: 40 feet to 50 feet	STATIC DEPTH TO WATER (feet): 5.44	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (50 feet – 5.44 feet) X 0.151 Liters/foot = liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= liters + (5.3 liters/foot X 48 feet) + 200 liters = 454.4 ~~liters~~ mL

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 45	PURGING INITIATED AT: 1115	PURGING ENDED AT: 1137	TOTAL VOLUME PURGED (liters): 4.4

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (Lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1125	2.0	2.0	200	5.60	6.72	23.1	30316	0.33	1.99	9.6	clear/none
1128	0.6	2.6	↓	5.58	6.70	23.1	31799	0.28	1.23	-17.5	
1131	0.6	3.2		5.58	6.64	23.1	31912	0.26	1.34	-24.9	
1134	0.6	3.8		5.59	6.63	23.1	31880	0.24	1.59	-29.9	
1137	0.6	4.4	↓	5.59	6.61	23.2	31903	0.21	1.65	-32.8	↓

WELL CAPACITY (Liters Per Foot): 0.75" = 0.076; 1" = 0.151; 1.25" = 0.227; 2" = 0.606; 3" = 1.401; 4" = 2.461; 5" = 3.861; 6" = 5.565; 12" = 22.258
TUBING INSIDE DIA. CAPACITY (mL/Ft.): 1/8" = 2.271; 3/16" = 5.300; 1/4" = 9.842; 5/16" = 15.142; 3/8" = 22.712; 1/2" = 37.854; 5/8" = 60.567

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jason Bublitz / HGL	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1139	SAMPLING ENDED AT: 1141
PUMP OR TUBING DEPTH IN WELL (feet): 45	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (Including wet Ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW0039	3	CG	40ml	HCL	NA	NA	TCE,cDCE,TDCE (8260B)	APP	200

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW0045	SAMPLE ID: FDSA-MW0045-025.0-20221222	DATE: 12-22-22

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 3.87	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30 feet – 3.87 feet) X 0.151 Liters/foot = 3.94 liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 200 liters + (5.3 liters/foot X 28 feet) + 200 liters = 349.4 liters mL

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 0913	PURGING ENDED AT: 0935	TOTAL VOLUME PURGED (liters): 4.4

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (Lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
0923	2.0	2.0	200	4.16	3.95	22.8	19060	0.31	9.23	233.8	clear/none
0926	0.6	2.6	↓	4.17	4.11	22.9	20999	0.38	11.9	211.1	↓
0929	0.6	3.2		4.18	4.15	23.0	21796	0.46	12.6	198.8	
0932	0.6	3.8		4.16	4.02	22.8	22080	0.59	13.2	189.8	
0935	0.6	4.4	↓	4.18	4.09	22.9	22148	0.36	12.2	181.5	↓

WELL CAPACITY (Liters Per Foot): **0.75"** = 0.076; **1"** = 0.151; **1.25"** = 0.227; **2"** = 0.606; **3"** = 1.401; **4"** = 2.461; **5"** = 3.861; **6"** = 5.565; **12"** = 22.258
TUBING INSIDE DIA. CAPACITY (ml./Ft.): **1/8"** = 2.271; **3/16"** = 5.300; **1/4"** = 9.842; **5/16"** = 15.142; **3/8"** = 22.712; **1/2"** = 37.854; **5/8"** = 60.567

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jason Bublitz / HGL	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0937	SAMPLING ENDED AT: 0939
PUMP OR TUBING DEPTH IN WELL (feet): 25	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW0045	3	CG	40ml	HCL	NA	NA	TCE,cDCE,TDCE (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW0048	SAMPLE ID: FDSA-MW0048-015.0-20221222	DATE: 12-22-22

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (20 feet − 3.24 feet) X 0.151 Liters/foot = 2.5 liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= liters + (5.3 liters/foot X 18 feet) + 200 liters = 295.4 ~~liters~~ mL

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15	PURGING INITIATED AT: 0841	PURGING ENDED AT: 0853	TOTAL VOLUME PURGED (liters): 4.4

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (Lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
~~0824~~ 0841	2.0	2.0	200	3.89	3.34	22.3	27118	0.44	3.33	254.7	clear/none
~~0844~~ 0844	0.6	2.6	↓	3.89	3.43	22.3	27186	0.42	1.78	251.7	↓
0847	0.6	3.2		3.88	3.50	22.3	27042	0.41	1.18	257.8	
0850	0.6	3.8		3.89	3.79	22.0	27270	0.43	1.34	247.2	
0853	0.6	4.4	↓	3.89	3.81	22.0	27194	0.44	1.22	244.4	↓

WELL CAPACITY (Liters Per Foot): **0.75"** = 0.076; **1"** = 0.151; **1.25"** = 0.227; **2"** = 0.606; **3"** = 1.401; **4"** = 2.481; **5"** = 3.861; **6"** = 5.565; **12"** = 22.258
TUBING INSIDE DIA. CAPACITY (mL/Ft.): **1/8"** = 2.271; **3/16"** = 5.300; **1/4"** = 9.842; **5/16"** = 15.142; **3/8"** = 22.712; **1/2"** = 37.854; **5/8"** = 60.567

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jason Bublitz	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0855	SAMPLING ENDED AT: 0857
PUMP OR TUBING DEPTH IN WELL (feet): 15	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW0048	3	CG	40ml	HCL	NA	NA	TCE,cDCE,TDCE (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW0051	SAMPLE ID: FDSA-MW0051-025.0-20221222	DATE: 12-22-22

PURGING DATA

WELL DIAMETER (Inches):	TUBING DIAMETER (Inches): ¼"	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 3.55	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30 feet − 3.55 feet) X 0.151 Liters/foot = 3.99 liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= liters + (5.3 liters/foot X 28 feet) + 200 liters = 348.4 ~~liters~~ mL

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 0952	PURGING ENDED AT: 1014	TOTAL VOLUME PURGED (liters): 4.4

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (Lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
~~BP~~ 1002	2.0	2.0	200	3.71	5.77	22.9	35171	0.28	22.2	-71.4	clear/none
1005	0.6	2.6	↓	3.70	5.81	22.8	35209	0.25	17.5	-70.9	↓
1008	0.6	3.2		3.70	5.93	22.9	36178	0.24	13.0	-73.2	
1011	0.6	3.8		3.70	5.95	23.0	36320	0.24	12.9	-75.3	
1014	0.6	4.4	↓	3.70	5.92	23.1	36444	0.22	10.8	-76.1	↓

WELL CAPACITY (Liters Per Foot): **0.75"** = 0.076; **1"** = 0.151; **1.25"** = 0.227; **2"** = 0.606; **3"** = 1.401; **4"** = 2.461; **5"** = 3.861; **6"** = 5.565; **12"** = 22.258
TUBING INSIDE DIA. CAPACITY (ml./Ft.): **1/8"** = 2.271; **3/16"** = 5.300; **1/4"** = 9.842; **5/16"** = 15.142; **3/8"** = 22.712; **1/2"** = 37.854; **5/8"** = 60.567

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jason Bublitz / HGL	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1016	SAMPLING ENDED AT: 1018
PUMP OR TUBING DEPTH IN WELL (feet): 25	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW0051	3	CG	40ml	HCL	NA	NA	TCE,cDCE,TDCE (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDSA	SITE LOCATION: KSC	
WELL NO: FDSA-MW0061	SAMPLE ID: FDSA-MW0061-007.0-20221222	DATE: 12-22-22

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): ¼"	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.16	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 3.16 feet) X 0.151 Liters/foot = 1.33 liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= liters + (5.3 liters/foot X 10 feet) + 200 liters = 253 mL liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 1036	PURGING ENDED AT: 1058	TOTAL VOLUME PURGED (liters): 4.4

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (Lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1046	2.0	2.0	200	3.39	4.86	23.6	20257	0.30	6.47	182.0	clear/none
1049	0.6	2.6	↓	3.38	4.75	23.5	20154	0.27	1.37	173.4	↓
1052	0.6	3.2		3.39	4.64	23.5	20168	0.24	1.99	166.6	
1055	0.6	3.8		3.39	4.51	23.4	20140	0.22	2.27	161.5	
1058	0.6	4.4		3.39	4.48	23.5	20141	0.21	2.24	158.5	

WELL CAPACITY (Liters Per Foot): **0.75"** = 0.076; **1"** = 0.151; **1.25"** = 0.227; **2"** = 0.606; **3"** = 1.401; **4"** = 2.461; **5"** = 3.861; **6"** = 5.565; **12"** = 22.258
TUBING INSIDE DIA. CAPACITY (mL/Ft.): **1/8"** = 2.271; **3/16"** = 5.300; **1/4"** = 9.842; **5/16"** = 15.142; **3/8"** = 22.712; **1/2"** = 37.854; **5/8"** = 60.567

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jason Bublitz / HGL	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: 1102
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW0061	3	CG	40ml	HCL	NA	NA	TCE,cDCE,TDCE (8260B)	APP	200

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

CONTENTS

PAGE	REFERENCE	DATE

Location FSRA / FDSA Date 12-22-22

Project / Client NS1002.05.06 / NASA

Purpose - collect groundwater samples
Personnel - William D., Jason B.
Equipment - YSI Pro, HACH 2100Q, water level meter, truck
weather - H: 75 L: 58, mostly cloudy, 10% chance of rain, wind NW 8 mph
0700 - Conduct TCSM
0745 - Sign in at pupullants building
0752 - All personnel on-site
Note: Calibrated YSI & Hach at field office at 0600.
0800 - Arrive at FDSA - MW0048 and setup equipment.
0831 - Begin purge at FDSA - MW0048
0855 - Collect FDSA - MW0048 - 015.0 - 20221222 Sample
0913 - Begin purge at FDSA - MW0045
0937 - Collect FDSA - MW0045 - 025.0 - 20221222
0957 - Begin purge at FDSA - MW0051
1016 - Collect FDSA - MW0051 - 025.0 - 20221222
1036 - Begin purge at FDSA - MW0061
1100 Collect FDSA - MW0061 - 007.0 - 20221222
1115 Begin purge at MW0039
1139 Collect MW0039 - 045.0 - 20221222
1202 Begin purge at MW0038
1226 Collect MW0038 - 045.0 - 20221222

Rite in the Rain.

6

Location FSRA - FDSA / PSBA Date 12/22/22

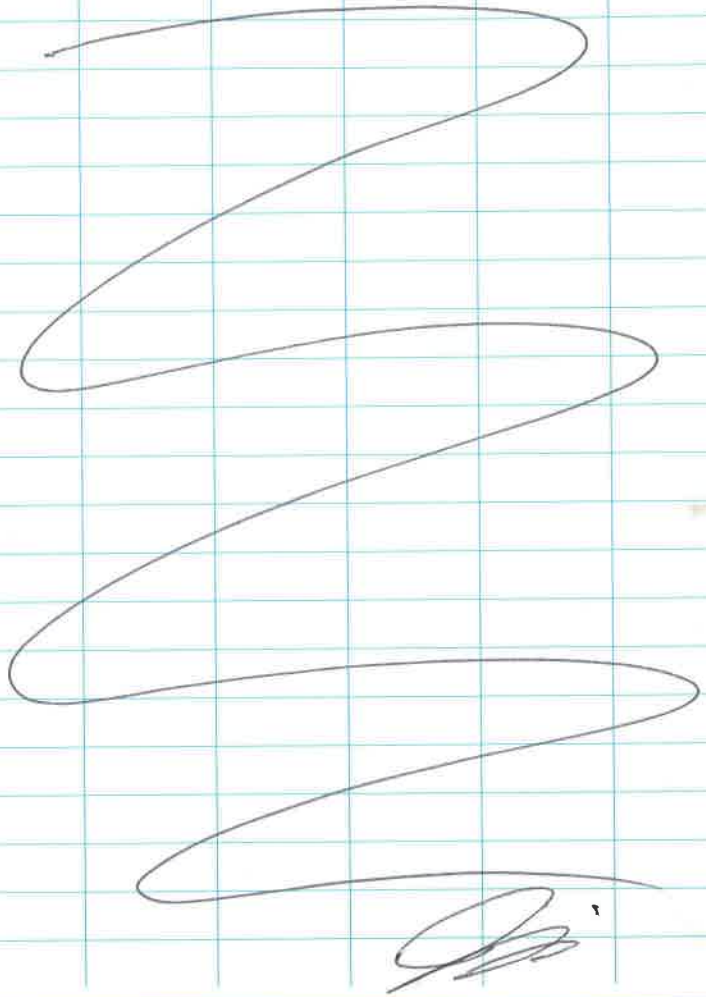
Project / Client NASA / KSC

NS1002.05.06

1240 - All personnel off-site for the day.

1245 - Sign out at propellants buildings

1250 - Add ~7 gallons of purge water to drum # 226840 on pallet # 227125.



Location Date

Project / Client

7

Rite in the Rain

Daily Quality Control Report

Daily Quality Control Report	
Date:	**6/8/2023**
NASA Remediation Project Manager:	Ryan O'Meara
HGL Program Manager	Janardan Patel
HGL Project Manager:	Jason Bublitz
Contract No.	80KSC019D0012
Task Order No.	80KSC019F0096
Project Name:	FSRA-FDSA
Project No.	NS1002.06.05

Day	**S**	**M**	**T**	**W**	**TH**	**F**	**S**
					X		

Weather	Bright Sun	Clear	Overcast	Rain	Fog
			X		

Temp	Min.	Max.
	86	71

Wind	Still	Moderate	High	Gust
		X		

Humidity	Dry	Moderate	High	Rainfall
		X		

1. List of On-Site Personnel:

1.1 List of HGL Personnel Onsite

HGL Employee Name	Position	Location	Hours	Non-Hours	Total Hours
Jason Bublitz	Project Manager	FDSA	2	0	2
Dustin Lupis	Field Technician	FDSA	2	0	2
TOTAL HGL PERSONNEL ONSITE		**2**	**TOTAL HOURS WORKED**		**4**

1.2 List of GOV. Personnel Onsite

Personnel Onsite	Affiliation / Position	Location	Est. Total Hours
TOTAL GOV PERSONNEL ONSITE	**0**		**0**

1.3 Subcontractors Onsite

Employee Name	Company / Position	Location	Hours	Non-Hours	Total Hours
TOTAL SUBCONTRACTOR PERSONNEL ONSITE	**0**	**TOTAL HOURS WORKED**			**0**

2. List of Equipment

2.1 Heavy Equipment

Equipment	Date Arrived/Departed	Date of Safety Check	Hours Used	Hours Idle	Hours Repair

2.2 Instrumentation & Equipment

Description Of Instrumentation	Date Arrived/Departed	Pre/Post Calibration Conducted	Cal Form Completed	Pass / Fail	Hours Used
YSI Pro	6/8/23 - 6/8/23	Yes	Yes	Pass	2
Hach2100Q Turbidity Meter	6/8/23 - 6/8/23	Yes	Yes	Pass	2

3. Field Activities

DFOW / ACTIVITY / DELIVERIES	S = Start C = Continuing F = Finish	Description of Work Actually Performed / Material Deliveries
Collect Ground Water Sample at FDSA.	**S/F**	Collected semiannual ground water sample from monitoring well.

Daily Quality Control Report

4. Testing and Sampling Activities

4.1 Sampling Conducted

Location	Analysis	Results - Detected / Not Detected
FDSA - MW0061	VOC's - TCE, cDCE, tDCE, VC	Awaiting Lab Results

5. Job Safety: (TGSM Topics, Report violations, instructions given, corrective action taken)

Biologicals, Pinch Points, Chemical Exposure, Heat Exposure, Traversing to Wells, Slips, Trips and Falls.

6. Description of Work Completed

1250 - Sign in at propellants building.

1300 - All personnel on-site. Conduct TGSM and set up sampling station.

1332 - Collect FDSA-MW0061-007.0-20230608 for VOC analysis.

1350 - All personnel off-site for the day.

1400 - Mob to CCF IDW storage and add ~4 gallons of IDW to drum #226840 on pallet #227125.

7. 3-PHASE INSPECTION (Preparatory / Initial / Final Follow-Up)

Name of Inspection Held	Gov. Notified (Y/N)	Definable Feature of Work	Checklist Completed

I Certify that I am the Contractor's Authorized Representative and that the above information stated in this Daily Activity Report is accurate and representative of the work completed.

Printed Name: Jason Bublitz	**6/9/2023**
Signature:	**6/9/2023**

I Certify that I am the Contractor's Authorized Quality Control Representative and that this Daily Activity Report conforms with all appropriate and approved Work Plan Statement of Work.

Printed Name: Tim Jellett	**6/9/2023**
Signature:	**6/9/2023**

SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : **PAGE___1___OF___1____**

SGS - ORLANDO Quote # | **SKIFF #**

Client / Reporting Information

Company Name: HGL, Inc.

Address: 2405 N. Courtney Parkway, STE 203

City: Merrit Island **State: FL** **Zip:32937**

Project Contact: Denise Rivers **Email:drivers@hgl.com**

Phone #:910-233-8460

Sampler(s) Name(s) (Printed)
Sampler 1: Jason Bublitz **Sampler 2:**

Project Information

Project Name: FSRA LTM Sampling

Street **Kennedy Space Center**

City **Merritt Island** **State** **FL**

Project # NS1002.06.09

Fax #

Client Purchase Order #

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	CONTAINER INFORMATION: TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	8260STD VOCs - cDCE, tDCE, VC, TCE	LAB USE ONLY
	FDSA-MW0061-007.0-20230608	6/8/23	1332	JB	GW	3			X							X	
	FDSA-TB0001-000.0-20230608	6/8/23	0800	JB	GW	2			X							X	

Turnaround Time (Business days)

X **10 Day (Business)** **Approved By: / Date:**
7 Day
5 Day
3 Day *RUSH* _____
2 Day *RUSH* _____
1 Day *RUSH* _____
Other _____
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ **COMMERCIAL "A" (RESULTS ONLY)**
- ☐ **COMMERCIAL "B" (RESULTS PLUS QC)**
- ☐ **REDT1 (EPA LEVEL 3)**
- ☐ **FULLT1 (EPA LEVEL 4)**
- ☐ **EDD'S**

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1		2	3		4
Relinquished by/Affiliation	**Date Time:**	**Received By/Affiliation**	**Relinquished By/Affiliation**	**Date Time:**	**Received By/Affiliation**
5		6	7		8

Lab Use Only : **Cooler Temperature (s) Celsius (corrected):**_____

http://www.sgs.com/en/terms-and-conditions

HGL
HydroGeoLogic, Inc.
Exceeding Expectations

SAFETY MEETING/TRAINING LOG

- [x] Tailgate (daily)
- [ ] Activity Hazard Analysis
- [ ] Pre-Task Hazard Analysis (prior to new task or operation)
- [ ] Site Safety Orientation (new personnel)
- [ ] Supervisor's (monthly)
- [ ] Supervisor's (weekly)
- [ ] UXO Awareness
- [ ] Asbestos Awareness
- [ ] Health and Safety Plan Addendum: _____
- [ ] Other: ___

Date/Time: 6-8-23/1300

Client: NASA / KSC

Location: FSRA / FDSA

Job No.: NS1402

Meeting/training conducted by: Jason Bublitz

Work Activities: Monitoring well sampling

Safety / Training Topics Presented

Chemical Hazards: VOCs

Physical Hazards: Slips trips falls,inclement weather,pinch points,biologicals,traffic,sun exposure,heat stress,struck by,teamwork,PPE

Specific Safety Topic(s): Inclement weather

Specific Training Covered: Be mindful of incoming weather and monitor text weather updates from NASA.

Attendees

Name Printed and Employee Number:	Signature:
Jason Bublitz	
DUSTIN LUPIS	

HGL
HydroGeoLogic, Inc.

CALIBRATION LOG

Project Name: MTA PFAS Assessment

By: Jason Bellar

Project No.: N51010.02

Page 1 of 1

Date/Time	Instrument	STD	STD CONC ppm	Meter Reading	Comments
6-7-23/1150	YSI Pro	conductivity	1.413	1.41	
		PH	4	4.01	
		↓	7	7.00	
		↓	10	9.97	
		ORP	240.0	240.0	
	↓	DO	100%	101.2%	
	Hach 2100Q	Stablcal/NTU	20	18.9	
	↓	↓	100	96.8	
	↓	↓	800	787	
↓	↓	↓	10	9.90	
6-8-23/1045	Hach 2100Q	stablcal/NTU	20	18.3	
↑	↑	↑	100	99.9	
↑	↑	↑	800	821	
↑	↑	↑	10	9.95	
↑	YSI Pro	DO	100%	99.1%	
↑	↑	conductivity	1.41	1.40	
↑	↑	PH	4	4.17	
↑	↑	↓	7	7.07	
↓	↓	↓	10	10.05	
		ORP	240.0	239.9	

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FSRA – FDSA	SITE LOCATION: NASA/KSC	
WELL NO: FDSA-MW0061	SAMPLE ID: FDSA-MW0061-007.0-20230608	DATE: June 8, 2023

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 2.85	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 2.85 feet) X 0.04 gallons/foot = 0.37 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (5.3 mL/foot X feet) + 200mL = mL

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 1312	PURGING ENDED AT: 1331	TOTAL VOLUME PURGED (gallons): 3.8

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (mLpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1316	0.8	0.8	200	3.01	4.79	25.4	19467	0.97	5.42	144.5	clear/none
1319	0.6	1.4	↓	3.02	4.45	25.3	19362	0.31	3.39	135.1	↓
1322	0.6	2.0		3.02	4.37	25.2	19261	0.25	1.72	127.3	
1325	0.6	2.6		3.02	4.38	25.2	19201	0.22	2.04	124.1	
1328	0.6	3.2		3.03	4.35	25.1	19155	0.16	1.54	119.0	
1331	0.6	3.8	↓	3.03	4.34	25.1	19075	0.13	1.04	113.0	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jason Bayliss / HGL	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1332	SAMPLING ENDED AT: 1334
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
1	3	CG	40mL	HCl	N/A		TCE, cDCE, tDCE, VC, 8260B	APP	100

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

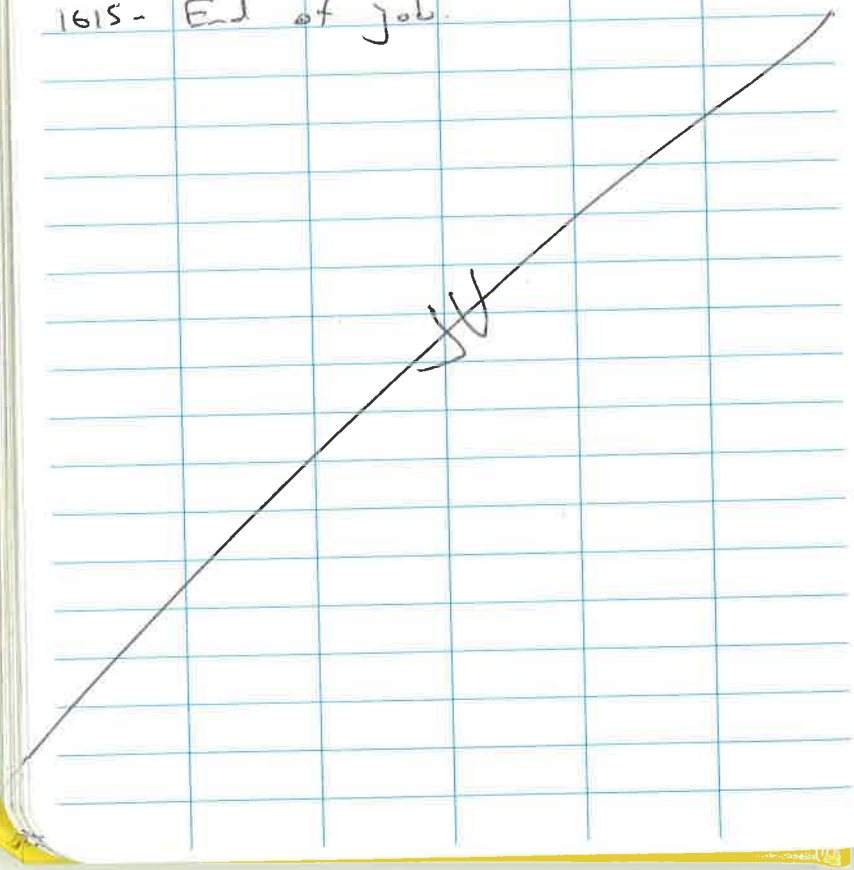
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Location ASRA Date 4/14/23

Project / Client NASA

1525-	Refuel truck
1535-	Move to Cape field office.
1545-	offload GPS & totes.
1555-	Travel to Merritt Island office.
1610-	Arrive to Merritt Island office.
1615-	End of job.



29

Location FSRA / FDSA Date 6-8-23

Project / Client NASA / KSC

NSLW02

Purpose: Collect GW sample from Semi-annual monitor well ~~FDSAS~~ FDSA MW0001.

Personnel: Jason B. & Dustin L. (HCL)

Equipment: Work truck, bagpump, HDPE tubing, silicon tubing, YSI, turbidity meter, WL meter.

Weather: HI-86 LO-71 overcast, 66% humidity.

1250 - Sign in at propellants building.

1300 - All personnel on-site Conduct TGSM.

1332 - Collect ~~FDSAS~~ FDSA - MW0001-007.0-20230608.

1345 - Back up equipment and clean area.

1350 - All personnel off-site for the day.

1400 - Mob to CCF IDW storage and add ~4 gallons of IDW to drum # 226840 on pallet 22725.

note: Sample placed on ice immediately following collection.

- Area newly overgrown and will require clearing before Biannual sampling event.

Rite in the Rain.

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APPENDIX B

LABORATORY REPORTS

Contents included in electronic version

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

e-Hardcopy 2.0
Automated Report



Technical Report for

Hydrogeologic, Inc.

FSRA-FDSA/PSBA NS1002; KSC, FL

NS1002.05.06

SGS Job Number: FC1200

Sampling Dates: 12/07/22 - 12/09/22

Report to:

HGL, Inc
2405 N Courtenay Pkwy Suite 203
Merritt Island, FL 32953
drivers@hgl.com

ATTN: Denise Rivers

Total number of pages in report: **1489**

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.

Norm Farmer
Technical Director

Client Service contact: Ariel Hartney 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AL, AK, AR, CT, IA, KY, MA, MI. MS, ND, NH, NV, OK, OR, IL, UT, VT, WA, WI, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

Hydrogeologic, Inc.

Job No: FC1200

FSRA-FDSA/PSBA NS1002; KSC, FL
Project No: NS1002.05.06

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC1200-1	12/07/22	08:37	WD	12/10/22	AQ	Ground Water	FDSA-MW0033-025.0-20221207
FC1200-2	12/07/22	09:35	WD	12/10/22	AQ	Ground Water	FDSA-MW0045-025.0-20221207
FC1200-3	12/07/22	10:11	WD	12/10/22	AQ	Ground Water	FDSA-MW0052-015.0-20221207
FC1200-4	12/07/22	10:45	WD	12/10/22	AQ	Ground Water	FDSA-MW0051-025.0-20221207
FC1200-5	12/07/22	11:19	WD	12/10/22	AQ	Ground Water	FDSA-MW0059-015.0-20221207
FC1200-6	12/07/22	11:59	WD	12/10/22	AQ	Ground Water	FDSA-MW0005-010.0-20221207
FC1200-7	12/07/22	12:31	WD	12/10/22	AQ	Ground Water	FDSA-MW0025S-010.0-20221207
FC1200-8	12/07/22	13:05	WD	12/10/22	AQ	Ground Water	FDSA-MW014S2-007.0-20221207
FC1200-9	12/07/22	13:43	WD	12/10/22	AQ	Ground Water	FDSA-MW0058-015.0-20221207
FC1200-10	12/07/22	14:19	WD	12/10/22	AQ	Ground Water	FDSA-MW0057-025.0-20221207
FC1200-11	12/07/22	14:55	WD	12/10/22	AQ	Ground Water	FDSA-MW0055-025.0-20221207
FC1200-12	12/07/22	08:00	WD	12/10/22	AQ	Trip Blank Water	FDSA-TB-000.0-20221207
FC1200-13	12/08/22	08:13	WD	12/10/22	AQ	Ground Water	FDSA-MW0047-015.0-20221208

Sample Summary
(continued)

Hydrogeologic, Inc.

Job No: FC1200

FSRA-FDSA/PSBA NS1002; KSC, FL
Project No: NS1002.05.06

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC1200-14	12/08/22	08:52	WD	12/10/22	AQ	Ground Water	FDSA-MW0050-025.0-20221208
FC1200-15	12/08/22	09:33	WD	12/10/22	AQ	Ground Water	FDSA-MW0031-012.5-20221208
FC1200-16	12/08/22	10:11	WD	12/10/22	AQ	Ground Water	FDSA-MW0048-015.0-20221208
FC1200-17	12/08/22	10:45	WD	12/10/22	AQ	Ground Water	FDSA-MW0016S2-007.0-20221208
FC1200-18	12/08/22	11:21	WD	12/10/22	AQ	Ground Water	FDSA-MW0015S2-006.0-20221208
FC1200-19	12/08/22	12:04	WD	12/10/22	AQ	Ground Water	FDSA-MW0022S2-015.0-20221208
FC1200-20	12/08/22	12:53	WD	12/10/22	AQ	Ground Water	FDSA-MW0029-015.0-20221208
FC1200-21	12/08/22	13:29	WD	12/10/22	AQ	Ground Water	FDSA-MW0035-045.0-20221208
FC1200-22	12/08/22	14:11	WD	12/10/22	AQ	Ground Water	FDSA-MW0039-045.0-20221208
FC1200-23	12/09/22	08:30	WD	12/10/22	AQ	Ground Water	FDSA-MW0038-045.0-20221209
FC1200-24	12/09/22	09:06	WD	12/10/22	AQ	Ground Water	FDSA-MW0017D1-045.0-20221209
FC1200-25	12/09/22	09:44	WD	12/10/22	AQ	Ground Water	FDSA-MW0036-045.0-20221209
FC1200-26	12/09/22	10:22	WD	12/10/22	AQ	Ground Water	FDSA-MW0044-025.0-20221209

Sample Summary
(continued)

Hydrogeologic, Inc.

Job No: FC1200

FSRA-FDSA/PSBA NS1002; KSC, FL
Project No: NS1002.05.06

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC1200-27	12/09/22	10:55	WD	12/10/22	AQ	Ground Water	FDSA-MW0034-025.0-20221209
FC1200-28	12/09/22	11:28	WD	12/10/22	AQ	Ground Water	FDSA-MW0044-015.0-20221209
FC1200-29	12/09/22	12:04	WD	12/10/22	AQ	Ground Water	FDSA-MW0003S2-013.0-20221209

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Hydrogeologic, Inc. **Job No:** FC1200

Site: FSRA-FDSA/PSBA NS1002; KSC, FL **Report Date:** 12/29/2022 3:29:57 PM

On 12/10/2022, 28 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 1 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC1200 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.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V1A1697

Sample(s) FC1200-25MS, FC1200-25MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for cis-1,2-Dichloroethylene are outside control limits. Probable cause is due to matrix interference.

FC1200-23: Sample vial(s) contained bubbles greater than 6mm.

FC1200-24: Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm.

FC1200-25: Sample was treated with an anti-foaming agent.

FC1200-26: Sample was treated with an anti-foaming agent.

FC1200-27: Sample was treated with an anti-foaming agent.

FC1200-28: Sample was treated with an anti-foaming agent.

FC1200-29: Sample was treated with an anti-foaming agent.

Matrix: AQ **Batch ID:** V1A1698

Sample(s) FC1102-12MS, FC1102-12MSD were used as the QC samples indicated.

V1A1698-MB: Sample was treated with an anti-foaming agent.

FC1200-24: Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent.

Matrix: AQ **Batch ID:** V1P3644

Sample(s) FC1074-1MS, FC1074-1MSD were used as the QC samples indicated.

V1P3644-MB: Sample was treated with an anti-foaming agent.

FC1200-1: Sample was treated with an anti-foaming agent.

FC1200-2: Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm.

FC1200-3: Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm. Confirmation run.

FC1200-4: Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm.

FC1200-5: Sample was treated with an anti-foaming agent.

FC1200-6: Sample was treated with an anti-foaming agent.

FC1200-7: Sample was treated with an anti-foaming agent.

FC1200-8: Sample was treated with an anti-foaming agent.

FC1200-9: Sample was treated with an anti-foaming agent.

FC1200-10: Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm.

Matrix: AQ **Batch ID:** V2A1682

FC1200-21: Sample vial(s) contained bubbles greater than 6mm. Sample analyzed beyond hold time. Confirmation run.

FC1200-25: Sample analyzed beyond hold time. Confirmation run.

Matrix: AQ **Batch ID:** V2P3657

Sample(s) FC1200-21MS, FC1200-21MSD were used as the QC samples indicated.

V2P3657-MB: Sample was treated with an anti-foaming agent.

FC1200-13: Sample was treated with an anti-foaming agent.

FC1200-14: Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent.

FC1200-15: Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent. Confirmation run.

FC1200-16: Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent.

FC1200-17: Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent. Confirmation run.

FC1200-18: Sample was treated with an anti-foaming agent.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V2P3657

FC1200-19: Sample was treated with an anti-foaming agent.

FC1200-20: Sample was treated with an anti-foaming agent.

FC1200-21: Sample vial(s) contained bubbles greater than 6mm.

FC1200-22: Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent.

FC1200-22 for 4-Bromofluorobenzene: Outside DOD QSM control limits.

Matrix: AQ **Batch ID:** V2P3658

Sample(s) FC1200-5MS, FC1200-5MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Vinyl Chloride are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Trichloroethylene are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for Vinyl Chloride are outside control limits for sample FC1200-5MSD. Probable cause is due to sample non-homogeneity.

V2P3658-MB: Sample was treated with an anti-foaming agent.

FC1200-11: Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm. Confirmation run.

FC1200-6: Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm.

Matrix: AQ **Batch ID:** VI2788

Sample(s) FC1239-2MS, FC1239-2MSD were used as the QC samples indicated.

VI2788-MB: Sample was treated with an anti-foaming agent.

FC1200-3: Sample was treated with an anti-foaming agent.

FC1200-11: Sample was treated with an anti-foaming agent.

FC1200-15: Sample was treated with an anti-foaming agent.

FC1200-17: Sample was treated with an anti-foaming agent.

SGS North America Inc. - Orlando 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.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

_____

Kim Benham, Client Services *(Signature on File)*

Summary of Hits

Job Number: FC1200
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/07/22 thru 12/09/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FC1200-1	**FDSA-MW0033-025.0-20221207**					
cis-1,2-Dichloroethylene [a]		1.3	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [a]		0.50 J	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [a]		7.2	1.0	0.50	ug/l	SW846 8260D
FC1200-2	**FDSA-MW0045-025.0-20221207**					
cis-1,2-Dichloroethylene [b]		12.8	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [b]		1.0	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [b]		4.8	1.0	0.50	ug/l	SW846 8260D
FC1200-3	**FDSA-MW0052-015.0-20221207**					
Trichloroethylene [a]		3.7	1.0	0.50	ug/l	SW846 8260D
FC1200-4	**FDSA-MW0051-025.0-20221207**					
cis-1,2-Dichloroethylene [b]		10.2	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [b]		0.57 J	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [b]		1.2	1.0	0.50	ug/l	SW846 8260D
FC1200-5	**FDSA-MW0059-015.0-20221207**					
cis-1,2-Dichloroethylene		198	10	5.0	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [a]		3.4	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		555	10	5.0	ug/l	SW846 8260D
Vinyl Chloride [a]		0.70 J	1.0	0.50	ug/l	SW846 8260D
FC1200-6	**FDSA-MW0005-010.0-20221207**					
cis-1,2-Dichloroethylene [a]		6.5	1.0	0.50	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [b]		6.4	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [b]		0.61 J	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [a]		0.65 J	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [a]		4.5	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [b]		4.4	1.0	0.50	ug/l	SW846 8260D
FC1200-7	**FDSA-MW0025S-010.0-20221207**					
cis-1,2-Dichloroethylene [a]		2.8	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [a]		3.5	1.0	0.50	ug/l	SW846 8260D

Summary of Hits

Job Number: FC1200
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/07/22 thru 12/09/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FC1200-8	**FDSA-MW014S2-007.0-20221207**					
cis-1,2-Dichloroethylene [a]		2.3	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [a]		4.7	1.0	0.50	ug/l	SW846 8260D
FC1200-9	**FDSA-MW0058-015.0-20221207**					
cis-1,2-Dichloroethylene [a]		2.3	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [a]		3.2	1.0	0.50	ug/l	SW846 8260D
Vinyl Chloride [a]		1.2	1.0	0.50	ug/l	SW846 8260D
FC1200-10	**FDSA-MW0057-025.0-20221207**					
cis-1,2-Dichloroethylene [b]		2.0	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [b]		1.2	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [b]		0.56 J	1.0	0.50	ug/l	SW846 8260D
FC1200-11	**FDSA-MW0055-025.0-20221207**					
cis-1,2-Dichloroethylene [a]		2.0	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [a]		1.3	1.0	0.50	ug/l	SW846 8260D
FC1200-12	**FDSA-TB-000.0-20221207**					
No hits reported in this sample.						
FC1200-13	**FDSA-MW0047-015.0-20221208**					
cis-1,2-Dichloroethylene [a]		1.1	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [a]		4.5	1.0	0.50	ug/l	SW846 8260D
FC1200-14	**FDSA-MW0050-025.0-20221208**					
cis-1,2-Dichloroethylene [c]		2.1	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [c]		8.7	1.0	0.50	ug/l	SW846 8260D
FC1200-15	**FDSA-MW0031-012.5-20221208**					
Trichloroethylene [a]		3.1	1.0	0.50	ug/l	SW846 8260D
FC1200-16	**FDSA-MW0048-015.0-20221208**					
cis-1,2-Dichloroethylene [c]		0.61 J	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [c]		6.9	1.0	0.50	ug/l	SW846 8260D

Summary of Hits

Job Number: FC1200
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/07/22 thru 12/09/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FC1200-17	**FDSA-MW0016S2-007.0-20221208**					
cis-1,2-Dichloroethylene [a]		13.0	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [a]		1.3	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [a]		3.1	1.0	0.50	ug/l	SW846 8260D
FC1200-18	**FDSA-MW0015S2-006.0-20221208**					
cis-1,2-Dichloroethylene [a]		11.1	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [a]		0.89 J	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [a]		12.2	1.0	0.50	ug/l	SW846 8260D
FC1200-19	**FDSA-MW0022S2-015.0-20221208**					
cis-1,2-Dichloroethylene [a]		0.81 J	1.0	0.50	ug/l	SW846 8260D
FC1200-20	**FDSA-MW0029-015.0-20221208**					
cis-1,2-Dichloroethylene [a]		25.8	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [a]		2.6	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [a]		12.0	1.0	0.50	ug/l	SW846 8260D
FC1200-21	**FDSA-MW0035-045.0-20221208**					
cis-1,2-Dichloroethylene [d]		48.9	2.0	1.0	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [d]		1.7 J	2.0	1.0	ug/l	SW846 8260D
Trichloroethylene [d]		1.1 J	2.0	1.0	ug/l	SW846 8260D
FC1200-22	**FDSA-MW0039-045.0-20221208**					
cis-1,2-Dichloroethylene [c]		20.3	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [c]		0.96 J	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [c]		1.7	1.0	0.50	ug/l	SW846 8260D
FC1200-23	**FDSA-MW0038-045.0-20221209**					
cis-1,2-Dichloroethylene [d]		29.0	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [d]		0.94 J	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [d]		1.5	1.0	0.50	ug/l	SW846 8260D
FC1200-24	**FDSA-MW0017D1-045.0-20221209**					
cis-1,2-Dichloroethylene [c]		113	2.0	1.0	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [b]		7.5	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [b]		2.5	1.0	0.50	ug/l	SW846 8260D

Summary of Hits

Job Number: FC1200
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/07/22 thru 12/09/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
Vinyl Chloride [b]		0.72 J	1.0	0.50	ug/l	SW846 8260D
FC1200-25	**FDSA-MW0036-045.0-20221209**					
cis-1,2-Dichloroethylene [a]		66.4	2.0	1.0	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [a]		3.2	2.0	1.0	ug/l	SW846 8260D
FC1200-26	**FDSA-MW0044-025.0-20221209**					
cis-1,2-Dichloroethylene [a]		2.3	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [a]		7.1	1.0	0.50	ug/l	SW846 8260D
FC1200-27	**FDSA-MW0034-025.0-20221209**					
Trichloroethylene [a]		2.7	1.0	0.50	ug/l	SW846 8260D
FC1200-28	**FDSA-MW0044-015.0-20221209**					
cis-1,2-Dichloroethylene [a]		20.7	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [a]		1.8	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [a]		3.0	1.0	0.50	ug/l	SW846 8260D
Vinyl Chloride [a]		3.7	1.0	0.50	ug/l	SW846 8260D
FC1200-29	**FDSA-MW0003S2-013.0-20221209**					
cis-1,2-Dichloroethylene [a]		1.2	1.0	0.50	ug/l	SW846 8260D
Vinyl Chloride [a]		1.6	1.0	0.50	ug/l	SW846 8260D

(a) Sample was treated with an anti-foaming agent.
(b) Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm.
(c) Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent.
(d) Sample vial(s) contained bubbles greater than 6mm.

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0033-025.0-20221207		
Lab Sample ID:	FC1200-1	**Date Sampled:**	12/07/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1P96242.D	1	12/12/22 14:49	CF	n/a	n/a	V1P3644
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	1.3	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50	1.0	0.50	0.22	ug/l	J
79-01-6	Trichloroethylene	7.2	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	110%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0045-025.0-20221207		
Lab Sample ID:	FC1200-2	**Date Sampled:**	12/07/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1P96244.D	1	12/12/22 15:21	CF	n/a	n/a	V1P3644
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	12.8	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.0	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	4.8	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	110%		83-118%

(a) Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0052-015.0-20221207		
Lab Sample ID:	FC1200-3	**Date Sampled:**	12/07/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	I753622.D	1	12/15/22 12:05	KG	n/a	n/a	VI2788
Run #2 [b]	1P96246.D	1	12/12/22 15:53	CF	n/a	n/a	V1P3644

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

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	3.7	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	105%	79-125%
2037-26-5	Toluene-D8	91%	100%	85-112%
460-00-4	4-Bromofluorobenzene	105%	112%	83-118%

(a) Sample was treated with an anti-foaming agent.
(b) Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm. Confirmation run.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0051-025.0-20221207		
Lab Sample ID:	FC1200-4	**Date Sampled:**	12/07/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1P96248.D	1	12/12/22 16:25	CF	n/a	n/a	V1P3644
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	10.2	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.57	1.0	0.50	0.22	ug/l	J
79-01-6	Trichloroethylene	1.2	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

(a) Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0059-015.0-20221207		
Lab Sample ID:	FC1200-5	**Date Sampled:**	12/07/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1P96250.D	1	12/12/22 16:57	CF	n/a	n/a	V1P3644
Run #2	2P96295.D	10	12/13/22 16:08	CF	n/a	n/a	V2P3658

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

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	198 [b]	10	5.0	2.8	ug/l	
156-60-5	trans-1,2-Dichloroethylene	3.4	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	555 [b]	10	5.0	3.5	ug/l	
75-01-4	Vinyl Chloride	0.70	1.0	0.50	0.41	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	105%	105%	79-125%
2037-26-5	Toluene-D8	98%	98%	85-112%
460-00-4	4-Bromofluorobenzene	112%	108%	83-118%

(a) Sample was treated with an anti-foaming agent.
(b) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0005-010.0-20221207		
Lab Sample ID:	FC1200-6	**Date Sampled:**	12/07/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1P96252.D	1	12/12/22 17:28	CF	n/a	n/a	V1P3644
Run #2 [b]	2P96283.D	1	12/13/22 12:57	CF	n/a	n/a	V2P3658

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

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	6.5	1.0	0.50	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethylene	6.4 [c]	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.65	1.0	0.50	0.22	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	0.61 [c]	1.0	0.50	0.22	ug/l	J
79-01-6	Trichloroethylene	4.5	1.0	0.50	0.35	ug/l	
79-01-6	Trichloroethylene	4.4 [c]	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
75-01-4	Vinyl Chloride	0.50 U [c]	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	105%	96%	79-125%
2037-26-5	Toluene-D8	100%	95%	85-112%
460-00-4	4-Bromofluorobenzene	110%	104%	83-118%

(a) Sample was treated with an anti-foaming agent.
(b) Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm.
(c) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0025S-010.0-20221207		
Lab Sample ID:	FC1200-7	**Date Sampled:**	12/07/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1P96254.D	1	12/12/22 18:00	CF	n/a	n/a	V1P3644
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	2.8	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	3.5	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	108%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW014S2-007.0-20221207		
Lab Sample ID:	FC1200-8	**Date Sampled:**	12/07/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1P96256.D	1	12/12/22 18:32	CF	n/a	n/a	V1P3644
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	2.3	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	4.7	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0058-015.0-20221207		
Lab Sample ID:	FC1200-9	**Date Sampled:**	12/07/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1P96258.D	1	12/12/22 19:04	CF	n/a	n/a	V1P3644
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	2.3	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	3.2	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	1.2	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	109%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	109%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0057-025.0-20221207		
Lab Sample ID:	FC1200-10	**Date Sampled:**	12/07/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1P96260.D	1	12/12/22 19:35	CF	n/a	n/a	V1P3644
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	2.0	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.2	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	0.56	1.0	0.50	0.35	ug/l	J
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		83-118%
17060-07-0	1,2-Dichloroethane-D4	114%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	113%		83-118%

(a) Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0055-025.0-20221207		
Lab Sample ID:	FC1200-11	**Date Sampled:**	12/07/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	I753624.D	1	12/15/22 12:53	KG	n/a	n/a	VI2788
Run #2 [b]	2P96293.D	1	12/13/22 15:37	CF	n/a	n/a	V2P3658

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

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	2.0	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.3	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	108%	79-125%
2037-26-5	Toluene-D8	90%	97%	85-112%
460-00-4	4-Bromofluorobenzene	103%	105%	83-118%

(a) Sample was treated with an anti-foaming agent.
(b) Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm. Confirmation run.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-TB-000.0-20221207		
Lab Sample ID:	FC1200-12	**Date Sampled:**	12/07/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P96233.D	1	12/12/22 12:25	CF	n/a	n/a	V2P3657
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0047-015.0-20221208		
Lab Sample ID:	FC1200-13	**Date Sampled:**	12/08/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2P96241.D	1	12/12/22 14:33	CF	n/a	n/a	V2P3657
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	1.1	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	4.5	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	113%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0050-025.0-20221208		
Lab Sample ID:	FC1200-14	**Date Sampled:**	12/08/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2P96243.D	1	12/12/22 15:05	CF	n/a	n/a	V2P3657
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	2.1	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	8.7	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

(a) Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0031-012.5-20221208		
Lab Sample ID:	FC1200-15	**Date Sampled:**	12/08/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	I753625.D	1	12/15/22 13:16	KG	n/a	n/a	VI2788
Run #2 [b]	2P96245.D	1	12/12/22 15:37	CF	n/a	n/a	V2P3657

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

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	3.1	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	104%	79-125%
2037-26-5	Toluene-D8	92%	99%	85-112%
460-00-4	4-Bromofluorobenzene	104%	109%	83-118%

(a) Sample was treated with an anti-foaming agent.
(b) Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent. Confirmation run.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0048-015.0-20221208		
Lab Sample ID:	FC1200-16	**Date Sampled:**	12/08/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2P96247.D	1	12/12/22 16:09	CF	n/a	n/a	V2P3657
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	0.61	1.0	0.50	0.28	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	6.9	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	111%		83-118%

(a) Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0016S2-007.0-20221208		
Lab Sample ID:	FC1200-17	**Date Sampled:**	12/08/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	I753626.D	1	12/15/22 13:40	KG	n/a	n/a	VI2788
Run #2 [b]	2P96249.D	1	12/12/22 16:41	CF	n/a	n/a	V2P3657

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

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	13.0	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.3	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	3.1	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	103%	79-125%
2037-26-5	Toluene-D8	91%	99%	85-112%
460-00-4	4-Bromofluorobenzene	105%	95%	83-118%

(a) Sample was treated with an anti-foaming agent.
(b) Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent. Confirmation run.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0015S2-006.0-20221208		
Lab Sample ID:	FC1200-18	**Date Sampled:**	12/08/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2P96251.D	1	12/12/22 17:12	CF	n/a	n/a	V2P3657
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	11.1	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.89	1.0	0.50	0.22	ug/l	J
79-01-6	Trichloroethylene	12.2	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	110%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0022S2-015.0-20221208		
Lab Sample ID:	FC1200-19	**Date Sampled:**	12/08/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2P96253.D	1	12/12/22 17:44	CF	n/a	n/a	V2P3657
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	0.81	1.0	0.50	0.28	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	114%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0029-015.0-20221208		
Lab Sample ID:	FC1200-20	**Date Sampled:**	12/08/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2P96255.D	1	12/12/22 18:16	CF	n/a	n/a	V2P3657
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	25.8	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	2.6	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	12.0	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	113%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0035-045.0-20221208		
Lab Sample ID:	FC1200-21	**Date Sampled:**	12/08/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2A42438.D	1	12/27/22 14:35	JL	n/a	n/a	V2A1682
Run #2 [b]	2P96257.D	2	12/12/22 18:47	CF	n/a	n/a	V2P3657

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

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	48.9 [c]	2.0	1.0	0.55	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.7 [c]	2.0	1.0	0.44	ug/l	J
79-01-6	Trichloroethylene	1.1 [c]	2.0	1.0	0.69	ug/l	J
75-01-4	Vinyl Chloride	1.0 U [c]	2.0	1.0	0.82	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	106%	79-125%
2037-26-5	Toluene-D8	97%	99%	85-112%
460-00-4	4-Bromofluorobenzene	97%	106%	83-118%

(a) Sample vial(s) contained bubbles greater than 6mm. Sample analyzed beyond hold time. Confirmation run.
(b) Sample vial(s) contained bubbles greater than 6mm.
(c) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0039-045.0-20221208		
Lab Sample ID:	FC1200-22	**Date Sampled:**	12/08/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2P96259.D	1	12/12/22 19:19	CF	n/a	n/a	V2P3657
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	20.3	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.96	1.0	0.50	0.22	ug/l	J
79-01-6	Trichloroethylene	1.7	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	112%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	115% [b]		83-118%

(a) Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent.
(b) Outside DOD QSM control limits.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0038-045.0-20221209		
Lab Sample ID:	FC1200-23	**Date Sampled:**	12/09/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1A42137.D	1	12/13/22 16:12	JL	n/a	n/a	V1A1697
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	29.0	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.94	1.0	0.50	0.22	ug/l	J
79-01-6	Trichloroethylene	1.5	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Sample vial(s) contained bubbles greater than 6mm.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0017D1-045.0-20221209		
Lab Sample ID:	FC1200-24	**Date Sampled:**	12/09/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1A42138.D	1	12/13/22 16:36	JL	n/a	n/a	V1A1697
Run #2 [b]	1A42160.D	2	12/14/22 14:06	JL	n/a	n/a	V1A1698

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

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	113 [c]	2.0	1.0	0.55	ug/l	
156-60-5	trans-1,2-Dichloroethylene	7.5	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	2.5	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.72	1.0	0.50	0.41	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	89%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	96%	79-125%
2037-26-5	Toluene-D8	96%	102%	85-112%
460-00-4	4-Bromofluorobenzene	97%	98%	83-118%

(a) Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm.
(b) Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent.
(c) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0036-045.0-20221209		
Lab Sample ID:	FC1200-25	**Date Sampled:**	12/09/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2A42439.D	1	12/27/22 14:59	JL	n/a	n/a	V2A1682
Run #2 [b]	1A42143.D	2	12/13/22 18:35	JL	n/a	n/a	V1A1697

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

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	66.4 [c]	2.0	1.0	0.55	ug/l	
156-60-5	trans-1,2-Dichloroethylene	3.2 [c]	2.0	1.0	0.44	ug/l	
79-01-6	Trichloroethylene	1.0 U [c]	2.0	1.0	0.69	ug/l	
75-01-4	Vinyl Chloride	1.0 U [c]	2.0	1.0	0.82	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	92%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	97%	79-125%
2037-26-5	Toluene-D8	98%	99%	85-112%
460-00-4	4-Bromofluorobenzene	97%	98%	83-118%

(a) Sample analyzed beyond hold time. Confirmation run.
(b) Sample was treated with an anti-foaming agent.
(c) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0044-025.0-20221209		
Lab Sample ID:	FC1200-26	**Date Sampled:**	12/09/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1A42139.D	1	12/13/22 16:59	JL	n/a	n/a	V1A1697
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	2.3	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	7.1	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0034-025.0-20221209		
Lab Sample ID:	FC1200-27	**Date Sampled:**	12/09/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1A42140.D	1	12/13/22 17:23	JL	n/a	n/a	V1A1697
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	2.7	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0044-015.0-20221209		
Lab Sample ID:	FC1200-28	**Date Sampled:**	12/09/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1A42141.D	1	12/13/22 17:47	JL	n/a	n/a	V1A1697
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	20.7	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.8	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	3.0	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	3.7	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0003S2-013.0-20221209		
Lab Sample ID:	FC1200-29	**Date Sampled:**	12/09/22
Matrix:	AQ - Ground Water	**Date Received:**	12/10/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1A42142.D	1	12/13/22 18:11	JL	n/a	n/a	V1A1697
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	1.2	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	1.6	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

SGS North America Inc - Orlando
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : PAGE 1 OF 3

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: HYDRO GEO LOGIC
Address: 2407 N COURTENAY PKWY SUITE 203
City: MERRITT ISLAND State: FL Zip: 32953
Project Contact: DENISE RUOLS Email: druols@hgl.com
Phone #: 910 233 8460
Sampler(s) Name(s) (Printed) Sampler 1: W. Duffy, Hoey Sampler 2:

Project Information

Project Name: EDSH
Street
City KSC State
Project # NS1002.05.06
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes
DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	LAB USE ONLY
1	EDSH-MW0033-0250-20221207	12-7-22	0837	WD	GW	3			X							
2	EDSH-MW0045-0250-20221207	12-7-22	0936	WD	GW	3			X							
3	EDSH-MW0052-0150-20221207	12-7-22	1011	WD	GW	3			X							
4	EDSH-MW0051-0250-20221207	12-7-22	1045	WD	GW	3			X							
5	EDSH-MW0054-0150-20221207	12-7-22	1117	WD	GW	3			X							
6	EDSH-MW0075-0250-20221207	12-7-22	1159	WD	GW	3			X							
7	EDSH-MW0055-0250-20221207	12-7-22	1251	WD	GW	3			X							
8	EDSH-MW01452-0250-20221207	12-7-22	1305	WD	GW	3			X							
9	EDSH-MW0058-0150-20221207	12-7-22	1343	WD	GW	3			X							
10	EDSH-MW0057-0250-20221207	12-7-22	1419	WD	GW	3			X							
11	EDSH-MW0095-0250-20221207	12-7-22	1455	WD	GW	3			X	X						
12	EDSH-TB-0000-20221207	12-7-22	0800	WD	WW	2			X							

Turnaround Time (Business days)

10 Day (Business) Approved By: / Date:
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

INITIAL ASSESSMENT MM

LABEL VERIFICATION

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1		12-9-22	2	3	12/9/22 15:58	4 12/9/22 1558
5	Relinquished by/Affiliation	Date Time:	6 Received By/Affiliation	7 Relinquished By/Affiliation	Date Time:	8 Received By/Affiliation

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 0.8 C/A/M

http://www.sgs.com/en/terms-and-conditions

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

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Chain of Custody

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TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: APEX GEOLOGIC INC
Address: 2405 W COURTENAY PKWY Suite 203
City: MERRITT ISLAND State: FL Zip: 32953
Project Contact: DENISE RIVERS Email: drivers@hgl.com
Phone #: 910 233 9460
Sampler(s) Name(s) (Printed): Sampler 1: C. BUTLER HAUG Sampler 2:

Project Information

Project Name: EDSA
Street
City KSC State FL
Project # 25100Z.04.01
Fax #
Client Purchase Order #

Analytical Information

8260B TCE, cis 1,2-DCE, VC, 1,2-DCE

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	MeOH+ZnAc	DI WATER	MEOH	LAB USE ONLY
13	EDSA-MW00047-0150-20221208	12.8.22	1213	WD	GW	3			X							
14	EDSA-MW00050-0250-20221208	12.8.22	1253	WD	GW	3			X							
15	EDSA-MW00051-0125-20221208	12.8.22	0933	WD	GW	3			X							
16	EDSA-MW00045-0150-20221208	12.8.22	1011	WD	GW	3			X							
17	EDSA-MW00165Z-0070-20221208	12.8.22	0945	WD	GW	3			X							
18	EDSA-MW00175Z-0060-20221208	12.8.22	1121	WD	GW	3			X							
19	EDSA-MW00[illegible]-0150-20221208	12.8.22	1203	WD	GW	3			X							
20	EDSA-MW00027-0150-20221208	12.8.22	1253	WD	GW	3			X							
21	EDSA-MW00035-0150-20221208	12.8.22	1329	WD	GW	3			X							
22	EDSA-MW00097-0150-20221208	12.8.22	1411	WD	GW	3			X							

Turnaround Time (Business days)

10 Day (Business) Approved By: / Date:
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	[illegible]/HGL	12-9-22	2	12/9/22 1730	3	12/9/22 1558
4						12/9/22 1558
5	Relinquished by/Affiliation	Date Time:	6 Received By/Affiliation	7 Relinquished By/Affiliation	Date Time:	8 Received By/Affiliation

Lab Use Only : Cooler Temperature (s) Celsius (corrected):

http://www.sgs.com/en/terms-and-conditions

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Chain of Custody

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SGS - ORLANDO JOB # : PAGE 3 OF 3

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: HYDROGEOLOGIC INC
Address: 2409 N. COURTENAY PKWY SUITE 203
City: MERRITT ISLAND State: FL Zip: 32953
Project Contact: DENNIS RIVERS Email: drivers@hgl.com
Phone #: 910 233 8460

Project Information

Project Name: ESDA
Street
City KSC State
Project # NS1002.04.01
Fax #
Client Purchase Order #

Sampler(s) Name(s) (Printed)
Sampler 1: WILLIAM MARSH Sampler 2:

Analytical Information

EA 8015 TRPH DRO, UL-DRO

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	CONTAINER INFORMATION TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH	LAB USE ONLY
23	ESDA-MW0036-045.0-20221209	12-9-22	8:30	WD	GW	3			X							
24	ESDA-MW0037MS-045.0-20221209	12-9-22	9:06	WD	GW	3			X							
25	ESDA-MW0036-045.0-20221209	12-9-22	9:44	WD	GW	3			X							
26	ESDA-MW0044-025.0-20221209	12-9-22	10:22	WD	GW	3			X							
27	ESDA-MW0034-025.0-20221209	12-9-22	10:55	WD	GW	3			X							
28	ESDA-MW0044-015.0-20221209	12-9-22	11:28	WD	GW	3			X							
29	ESDA-MW0032-09.0-20221209	12-9-22	12:01	WD	GW	3			X							

Turnaround Time (Business days)

10 Day (Business) Approved By: / Date:
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	[illegible] / HGL	12-9-22	2 [illegible]	3 [illegible] 12/9/22 1430	12/9/22 1558	4 [illegible] 12/9/22 1558
	Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5			6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected):

http://www.sgs.com/en/terms-and-conditions

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

FC1200: Chain of Custody
Page 3 of 5

SGS Sample Receipt Summary

Job Number: FC1200 **Client:** HGL **Project:** FDSA

Date / Time Received: 12/10/2022 3:58:00 PM **Delivery Method:** COURIER **Airbill #'s:**

Therm ID: IR 1; **Therm CF:** 0.2; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (0.8);

Cooler Temps (Corrected) °C: Cooler 1: (1.0);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☑		☐	☐
2. Trip Blank listed on COC	☑		☐	☐

	W	or	S	N/A
3. Type Of TB Received	☑		☐	☐

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☑		☐	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments FOR SAMPLE -1, ONE VIAL RECEIVED WITH HEADSPACE. TIME OF SAMPLE COLLECTION ON COC IS "837", BUT TIME ON SAMPLE ID LABEL IS "838".
FOR SAMPLE -2, ALL THREE VIALS RECEIVED WITH HEADSPACE.
FOR SAMPLE -3, ONE VIAL RECEIVED WITH HEADSPACE.
FOR SAMPLE -4, TWO VIALS RECEIVED WITH HEADSPACE.
FOR SAMPLE -8, ONE VIAL RECEIVED WITH HEADSPACE.
FOR SAMPLE -11, ONE VIAL RECEIVED WITH HEADSPACE.
FOR SAMPLE -15, ONE VIAL RECEIVED WITH HEADSPACE

SM001
Rev. Date 05/24/17

Technician: SAMUELM Date: 12/10/2022 3:58:00 P Reviewer: _____ Date: _____

Job Change Order: FC1200

Requested Date:	12/13/2022	**Received Date:**	12/10/2022
Account Name:	Hydrogeologic, Inc.	**Due Date:**	12/27/2022
Project Description:	FSRA-FDSA/PSBA NS1002; KSC, FL	**Deliverable:**	FULT1
CSR:	KB	**TAT (Days):**	1

==========

Sample #: FC1200-19

Dept:

TAT: 1

FDSA-MW0022S2-015.0-20221208

Change:
Per client, cancel sample "FDSA-MW0022S2-015.0-20221208"

==========

FC1200: Chain of Custody
Page 5 of 5

Above Changes Per: Jason Bublitz **Date/Time:** 12/13/2022 9:31:37 AM

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

Page 1 of 1

QC Evaluation: DOD QSM5.x Limits

Job Number: FC1200
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/07/22 thru 12/09/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1A1697	SW846 8260D						
V1A1697-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	96	%	78-123
V1A1697-BS	156-60-5	trans-1,2-Dichloroethylene	BSP	REC	97	%	75-124
V1A1697-BS	79-01-6	Trichloroethylene	BSP	REC	97	%	79-123
V1A1697-BS	75-01-4	Vinyl Chloride	BSP	REC	89	%	58-137
V1A1697-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	99	%	80-119
V1A1697-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	100	%	81-118
V1A1697-BS	2037-26-5	Toluene-D8	BSP	SURR	99	%	89-112
V1A1697-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	100	%	85-114
FC1200-25MS	156-59-2	cis-1,2-Dichloroethylene	MS	REC	82	%	78-123
FC1200-25MS	156-60-5	trans-1,2-Dichloroethylene	MS	REC	82	%	75-124
FC1200-25MS	79-01-6	Trichloroethylene	MS	REC	87	%	79-123
FC1200-25MS	75-01-4	Vinyl Chloride	MS	REC	88	%	58-137
FC1200-25MS	1868-53-7	Dibromofluoromethane	MS	SURR	89	%	80-119
FC1200-25MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	97	%	81-118
FC1200-25MS	2037-26-5	Toluene-D8	MS	SURR	99	%	89-112
FC1200-25MS	460-00-4	4-Bromofluorobenzene	MS	SURR	98	%	85-114
FC1200-25MSD	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	77	%	78-123
FC1200-25MSD	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	5	%	20
FC1200-25MSD	156-60-5	trans-1,2-Dichloroethylene	MSD	REC	78	%	75-124
FC1200-25MSD	156-60-5	trans-1,2-Dichloroethylene	MSD	RPD	5	%	20
FC1200-25MSD	79-01-6	Trichloroethylene	MSD	REC	82	%	79-123
FC1200-25MSD	79-01-6	Trichloroethylene	MSD	RPD	6	%	20
FC1200-25MSD	75-01-4	Vinyl Chloride	MSD	REC	78	%	58-137
FC1200-25MSD	75-01-4	Vinyl Chloride	MSD	RPD	13	%	20
FC1200-25MSD	1868-53-7	Dibromofluoromethane	MSD	SURR	88	%	80-119
FC1200-25MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	97	%	81-118
FC1200-25MSD	2037-26-5	Toluene-D8	MSD	SURR	98	%	89-112
FC1200-25MSD	460-00-4	4-Bromofluorobenzene	MSD	SURR	97	%	85-114
V1A1697-MB	1868-53-7	Dibromofluoromethane	MB	SURR	100	%	80-119
V1A1697-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	97	%	81-118
V1A1697-MB	2037-26-5	Toluene-D8	MB	SURR	99	%	89-112
V1A1697-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	100	%	85-114
FC1200-23	1868-53-7	Dibromofluoromethane	SAMP	SURR	97	%	80-119
FC1200-23	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	97	%	81-118
FC1200-23	2037-26-5	Toluene-D8	SAMP	SURR	96	%	89-112
FC1200-23	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	85-114
FC1200-24	1868-53-7	Dibromofluoromethane	SAMP	SURR	97	%	80-119
FC1200-24	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	98	%	81-118
FC1200-24	2037-26-5	Toluene-D8	SAMP	SURR	96	%	89-112
FC1200-24	460-00-4	4-Bromofluorobenzene	SAMP	SURR	97	%	85-114
FC1200-25	1868-53-7	Dibromofluoromethane	SAMP	SURR	92	%	80-119
FC1200-25	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	97	%	81-118

* Sample used for QC is not from job FC1200

QC Evaluation: DOD QSM5.x Limits

Job Number: FC1200
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/07/22 thru 12/09/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC1200-25	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC1200-25	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	85-114
FC1200-26	1868-53-7	Dibromofluoromethane	SAMP	SURR	96	%	80-119
FC1200-26	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	97	%	81-118
FC1200-26	2037-26-5	Toluene-D8	SAMP	SURR	96	%	89-112
FC1200-26	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	85-114
FC1200-27	1868-53-7	Dibromofluoromethane	SAMP	SURR	94	%	80-119
FC1200-27	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	96	%	81-118
FC1200-27	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FC1200-27	460-00-4	4-Bromofluorobenzene	SAMP	SURR	97	%	85-114
FC1200-28	1868-53-7	Dibromofluoromethane	SAMP	SURR	95	%	80-119
FC1200-28	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	97	%	81-118
FC1200-28	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FC1200-28	460-00-4	4-Bromofluorobenzene	SAMP	SURR	96	%	85-114
FC1200-29	1868-53-7	Dibromofluoromethane	SAMP	SURR	94	%	80-119
FC1200-29	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	97	%	81-118
FC1200-29	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FC1200-29	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	85-114
V1A1698	SW846 8260D						
V1A1698-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	78	%	78-123
V1A1698-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	88	%	80-119
V1A1698-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	98	%	81-118
V1A1698-BS	2037-26-5	Toluene-D8	BSP	SURR	100	%	89-112
V1A1698-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	98	%	85-114
FC1102-12MS*	156-59-2	cis-1,2-Dichloroethylene	MS	REC	80	%	78-123
FC1102-12MS*	1868-53-7	Dibromofluoromethane	MS	SURR	86	%	80-119
FC1102-12MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	96	%	81-118
FC1102-12MS*	2037-26-5	Toluene-D8	MS	SURR	102	%	89-112
FC1102-12MS*	460-00-4	4-Bromofluorobenzene	MS	SURR	102	%	85-114
FC1102-12MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	81	%	78-123
FC1102-12MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	1	%	20
FC1102-12MSD*	1868-53-7	Dibromofluoromethane	MSD	SURR	87	%	80-119
FC1102-12MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	97	%	81-118
FC1102-12MSD*	2037-26-5	Toluene-D8	MSD	SURR	102	%	89-112
FC1102-12MSD*	460-00-4	4-Bromofluorobenzene	MSD	SURR	102	%	85-114
V1A1698-MB	1868-53-7	Dibromofluoromethane	MB	SURR	89	%	80-119
V1A1698-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	96	%	81-118
V1A1698-MB	2037-26-5	Toluene-D8	MB	SURR	101	%	89-112
V1A1698-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	98	%	85-114
FC1200-24	1868-53-7	Dibromofluoromethane	SAMP	SURR	89	%	80-119
FC1200-24	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	96	%	81-118
FC1200-24	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FC1200-24	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	85-114

* Sample used for QC is not from job FC1200

QC Evaluation: DOD QSM5.x Limits

Job Number: FC1200
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/07/22 thru 12/09/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1P3644	SW846 8260D						
V1P3644-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	104	%	78-123
V1P3644-BS	156-60-5	trans-1,2-Dichloroethylene	BSP	REC	101	%	75-124
V1P3644-BS	79-01-6	Trichloroethylene	BSP	REC	99	%	79-123
V1P3644-BS	75-01-4	Vinyl Chloride	BSP	REC	93	%	58-137
V1P3644-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	105	%	80-119
V1P3644-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	100	%	81-118
V1P3644-BS	2037-26-5	Toluene-D8	BSP	SURR	98	%	89-112
V1P3644-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	103	%	85-114
FC1074-1MS*	156-59-2	cis-1,2-Dichloroethylene	MS	REC	110	%	78-123
FC1074-1MS*	156-60-5	trans-1,2-Dichloroethylene	MS	REC	108	%	75-124
FC1074-1MS*	79-01-6	Trichloroethylene	MS	REC	105	%	79-123
FC1074-1MS*	75-01-4	Vinyl Chloride	MS	REC	85	%	58-137
FC1074-1MS*	1868-53-7	Dibromofluoromethane	MS	SURR	110	%	80-119
FC1074-1MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	110	%	81-118
FC1074-1MS*	2037-26-5	Toluene-D8	MS	SURR	95	%	89-112
FC1074-1MS*	460-00-4	4-Bromofluorobenzene	MS	SURR	104	%	85-114
FC1074-1MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	112	%	78-123
FC1074-1MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	1	%	20
FC1074-1MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	REC	104	%	75-124
FC1074-1MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	RPD	4	%	20
FC1074-1MSD*	79-01-6	Trichloroethylene	MSD	REC	104	%	79-123
FC1074-1MSD*	79-01-6	Trichloroethylene	MSD	RPD	1	%	20
FC1074-1MSD*	75-01-4	Vinyl Chloride	MSD	REC	78	%	58-137
FC1074-1MSD*	75-01-4	Vinyl Chloride	MSD	RPD	8	%	20
FC1074-1MSD*	1868-53-7	Dibromofluoromethane	MSD	SURR	108	%	80-119
FC1074-1MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	106	%	81-118
FC1074-1MSD*	2037-26-5	Toluene-D8	MSD	SURR	98	%	89-112
FC1074-1MSD*	460-00-4	4-Bromofluorobenzene	MSD	SURR	106	%	85-114
V1P3644-MB	1868-53-7	Dibromofluoromethane	MB	SURR	102	%	80-119
V1P3644-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	96	%	81-118
V1P3644-MB	2037-26-5	Toluene-D8	MB	SURR	99	%	89-112
V1P3644-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	106	%	85-114
FC1200-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	106	%	80-119
FC1200-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	105	%	81-118
FC1200-1	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FC1200-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	110	%	85-114
FC1200-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	107	%	80-119
FC1200-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	106	%	81-118
FC1200-2	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC1200-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	110	%	85-114
FC1200-3	1868-53-7	Dibromofluoromethane	SAMP	SURR	106	%	80-119
FC1200-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	105	%	81-118

* Sample used for QC is not from job FC1200

QC Evaluation: DOD QSM5.x Limits

Job Number: FC1200
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/07/22 thru 12/09/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC1200-3	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FC1200-3	460-00-4	4-Bromofluorobenzene	SAMP	SURR	112	%	85-114
FC1200-4	1868-53-7	Dibromofluoromethane	SAMP	SURR	108	%	80-119
FC1200-4	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	107	%	81-118
FC1200-4	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FC1200-4	460-00-4	4-Bromofluorobenzene	SAMP	SURR	106	%	85-114
FC1200-5	1868-53-7	Dibromofluoromethane	SAMP	SURR	106	%	80-119
FC1200-5	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	105	%	81-118
FC1200-5	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112
FC1200-5	460-00-4	4-Bromofluorobenzene	SAMP	SURR	112	%	85-114
FC1200-6	1868-53-7	Dibromofluoromethane	SAMP	SURR	106	%	80-119
FC1200-6	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	105	%	81-118
FC1200-6	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FC1200-6	460-00-4	4-Bromofluorobenzene	SAMP	SURR	110	%	85-114
FC1200-7	1868-53-7	Dibromofluoromethane	SAMP	SURR	107	%	80-119
FC1200-7	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	108	%	81-118
FC1200-7	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FC1200-7	460-00-4	4-Bromofluorobenzene	SAMP	SURR	108	%	85-114
FC1200-8	1868-53-7	Dibromofluoromethane	SAMP	SURR	107	%	80-119
FC1200-8	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	110	%	81-118
FC1200-8	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC1200-8	460-00-4	4-Bromofluorobenzene	SAMP	SURR	106	%	85-114
FC1200-9	1868-53-7	Dibromofluoromethane	SAMP	SURR	109	%	80-119
FC1200-9	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	109	%	81-118
FC1200-9	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC1200-9	460-00-4	4-Bromofluorobenzene	SAMP	SURR	109	%	85-114
FC1200-10	1868-53-7	Dibromofluoromethane	SAMP	SURR	110	%	80-119
FC1200-10	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	114	%	81-118
FC1200-10	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC1200-10	460-00-4	4-Bromofluorobenzene	SAMP	SURR	113	%	85-114
V2P3657	SW846 8260D						
V2P3657-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	99	%	78-123
V2P3657-BS	156-60-5	trans-1,2-Dichloroethylene	BSP	REC	95	%	75-124
V2P3657-BS	79-01-6	Trichloroethylene	BSP	REC	98	%	79-123
V2P3657-BS	75-01-4	Vinyl Chloride	BSP	REC	90	%	58-137
V2P3657-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	103	%	80-119
V2P3657-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	97	%	81-118
V2P3657-BS	2037-26-5	Toluene-D8	BSP	SURR	97	%	89-112
V2P3657-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	107	%	85-114
FC1200-21MS	156-59-2	cis-1,2-Dichloroethylene	MS	REC	99	%	78-123
FC1200-21MS	156-60-5	trans-1,2-Dichloroethylene	MS	REC	102	%	75-124
FC1200-21MS	79-01-6	Trichloroethylene	MS	REC	103	%	79-123
FC1200-21MS	75-01-4	Vinyl Chloride	MS	REC	94	%	58-137

* Sample used for QC is not from job FC1200

QC Evaluation: DOD QSM5.x Limits

Job Number: FC1200
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/07/22 thru 12/09/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC1200-21MS	1868-53-7	Dibromofluoromethane	MS	SURR	106	%	80-119
FC1200-21MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	108	%	81-118
FC1200-21MS	2037-26-5	Toluene-D8	MS	SURR	95	%	89-112
FC1200-21MS	460-00-4	4-Bromofluorobenzene	MS	SURR	104	%	85-114
FC1200-21MSD	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	99	%	78-123
FC1200-21MSD	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	0	%	20
FC1200-21MSD	156-60-5	trans-1,2-Dichloroethylene	MSD	REC	101	%	75-124
FC1200-21MSD	156-60-5	trans-1,2-Dichloroethylene	MSD	RPD	2	%	20
FC1200-21MSD	79-01-6	Trichloroethylene	MSD	REC	103	%	79-123
FC1200-21MSD	79-01-6	Trichloroethylene	MSD	RPD	0	%	20
FC1200-21MSD	75-01-4	Vinyl Chloride	MSD	REC	86	%	58-137
FC1200-21MSD	75-01-4	Vinyl Chloride	MSD	RPD	9	%	20
FC1200-21MSD	1868-53-7	Dibromofluoromethane	MSD	SURR	104	%	80-119
FC1200-21MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	101	%	81-118
FC1200-21MSD	2037-26-5	Toluene-D8	MSD	SURR	99	%	89-112
FC1200-21MSD	460-00-4	4-Bromofluorobenzene	MSD	SURR	109	%	85-114
V2P3657-MB	1868-53-7	Dibromofluoromethane	MB	SURR	103	%	80-119
V2P3657-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	99	%	81-118
V2P3657-MB	2037-26-5	Toluene-D8	MB	SURR	98	%	89-112
V2P3657-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	107	%	85-114
FC1200-12	1868-53-7	Dibromofluoromethane	SAMP	SURR	104	%	80-119
FC1200-12	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	99	%	81-118
FC1200-12	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC1200-12	460-00-4	4-Bromofluorobenzene	SAMP	SURR	106	%	85-114
FC1200-13	1868-53-7	Dibromofluoromethane	SAMP	SURR	107	%	80-119
FC1200-13	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	105	%	81-118
FC1200-13	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC1200-13	460-00-4	4-Bromofluorobenzene	SAMP	SURR	113	%	85-114
FC1200-14	1868-53-7	Dibromofluoromethane	SAMP	SURR	107	%	80-119
FC1200-14	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	105	%	81-118
FC1200-14	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FC1200-14	460-00-4	4-Bromofluorobenzene	SAMP	SURR	107	%	85-114
FC1200-15	1868-53-7	Dibromofluoromethane	SAMP	SURR	105	%	80-119
FC1200-15	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	104	%	81-118
FC1200-15	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC1200-15	460-00-4	4-Bromofluorobenzene	SAMP	SURR	109	%	85-114
FC1200-16	1868-53-7	Dibromofluoromethane	SAMP	SURR	106	%	80-119
FC1200-16	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	106	%	81-118
FC1200-16	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112
FC1200-16	460-00-4	4-Bromofluorobenzene	SAMP	SURR	111	%	85-114
FC1200-17	1868-53-7	Dibromofluoromethane	SAMP	SURR	106	%	80-119
FC1200-17	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	103	%	81-118
FC1200-17	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC1200-17	460-00-4	4-Bromofluorobenzene	SAMP	SURR	95	%	85-114
FC1200-18	1868-53-7	Dibromofluoromethane	SAMP	SURR	107	%	80-119

* Sample used for QC is not from job FC1200

QC Evaluation: DOD QSM5.x Limits

Job Number: FC1200
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/07/22 thru 12/09/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC1200-18	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	106	%	81-118
FC1200-18	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC1200-18	460-00-4	4-Bromofluorobenzene	SAMP	SURR	110	%	85-114
FC1200-19	1868-53-7	Dibromofluoromethane	SAMP	SURR	107	%	80-119
FC1200-19	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	106	%	81-118
FC1200-19	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC1200-19	460-00-4	4-Bromofluorobenzene	SAMP	SURR	114	%	85-114
FC1200-20	1868-53-7	Dibromofluoromethane	SAMP	SURR	108	%	80-119
FC1200-20	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	106	%	81-118
FC1200-20	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC1200-20	460-00-4	4-Bromofluorobenzene	SAMP	SURR	113	%	85-114
FC1200-21	1868-53-7	Dibromofluoromethane	SAMP	SURR	107	%	80-119
FC1200-21	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	106	%	81-118
FC1200-21	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC1200-21	460-00-4	4-Bromofluorobenzene	SAMP	SURR	106	%	85-114
FC1200-22	1868-53-7	Dibromofluoromethane	SAMP	SURR	108	%	80-119
FC1200-22	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	112	%	81-118
FC1200-22	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC1200-22	460-00-4	4-Bromofluorobenzene	SAMP	SURR	115 [a]	%	85-114
V2P3658	SW846 8260D						
V2P3658-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	105	%	78-123
V2P3658-BS	156-60-5	trans-1,2-Dichloroethylene	BSP	REC	102	%	75-124
V2P3658-BS	79-01-6	Trichloroethylene	BSP	REC	103	%	79-123
V2P3658-BS	75-01-4	Vinyl Chloride	BSP	REC	97	%	58-137
V2P3658-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	104	%	80-119
V2P3658-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	99	%	81-118
V2P3658-BS	2037-26-5	Toluene-D8	BSP	SURR	96	%	89-112
V2P3658-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	107	%	85-114
FC1200-5MS	156-59-2	cis-1,2-Dichloroethylene	MS	REC	100	%	78-123
FC1200-5MS	156-60-5	trans-1,2-Dichloroethylene	MS	REC	99	%	75-124
FC1200-5MS	79-01-6	Trichloroethylene	MS	REC	84	%	79-123
FC1200-5MS	75-01-4	Vinyl Chloride	MS	REC	175	%	58-137
FC1200-5MS	1868-53-7	Dibromofluoromethane	MS	SURR	112	%	80-119
FC1200-5MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	113	%	81-118
FC1200-5MS	2037-26-5	Toluene-D8	MS	SURR	94	%	89-112
FC1200-5MS	460-00-4	4-Bromofluorobenzene	MS	SURR	106	%	85-114
FC1200-5MSD	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	100	%	78-123
FC1200-5MSD	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	0	%	20
FC1200-5MSD	156-60-5	trans-1,2-Dichloroethylene	MSD	REC	98	%	75-124
FC1200-5MSD	156-60-5	trans-1,2-Dichloroethylene	MSD	RPD	0	%	20
FC1200-5MSD	79-01-6	Trichloroethylene	MSD	REC	80 [b]	%	79-123
FC1200-5MSD	79-01-6	Trichloroethylene	MSD	RPD	2	%	20
FC1200-5MSD	75-01-4	Vinyl Chloride	MSD	REC	85	%	58-137

* Sample used for QC is not from job FC1200

QC Evaluation: DOD QSM5.x Limits

Job Number: FC1200
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/07/22 thru 12/09/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC1200-5MSD	75-01-4	Vinyl Chloride	MSD	RPD	69	%	20
FC1200-5MSD	1868-53-7	Dibromofluoromethane	MSD	SURR	112	%	80-119
FC1200-5MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	110	%	81-118
FC1200-5MSD	2037-26-5	Toluene-D8	MSD	SURR	96	%	89-112
FC1200-5MSD	460-00-4	4-Bromofluorobenzene	MSD	SURR	110	%	85-114
V2P3658-MB	1868-53-7	Dibromofluoromethane	MB	SURR	103	%	80-119
V2P3658-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	98	%	81-118
V2P3658-MB	2037-26-5	Toluene-D8	MB	SURR	95	%	89-112
V2P3658-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	107	%	85-114
FC1200-5	1868-53-7	Dibromofluoromethane	SAMP	SURR	106	%	80-119
FC1200-5	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	105	%	81-118
FC1200-5	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112
FC1200-5	460-00-4	4-Bromofluorobenzene	SAMP	SURR	108	%	85-114
FC1200-6	1868-53-7	Dibromofluoromethane	SAMP	SURR	104	%	80-119
FC1200-6	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	96	%	81-118
FC1200-6	2037-26-5	Toluene-D8	SAMP	SURR	95	%	89-112
FC1200-6	460-00-4	4-Bromofluorobenzene	SAMP	SURR	104	%	85-114
FC1200-11	1868-53-7	Dibromofluoromethane	SAMP	SURR	107	%	80-119
FC1200-11	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	108	%	81-118
FC1200-11	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FC1200-11	460-00-4	4-Bromofluorobenzene	SAMP	SURR	105	%	85-114
VI2788	SW846 8260D						
VI2788-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	110	%	78-123
VI2788-BS	156-60-5	trans-1,2-Dichloroethylene	BSP	REC	108	%	75-124
VI2788-BS	79-01-6	Trichloroethylene	BSP	REC	105	%	79-123
VI2788-BS	75-01-4	Vinyl Chloride	BSP	REC	116	%	58-137
VI2788-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	106	%	80-119
VI2788-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	109	%	81-118
VI2788-BS	2037-26-5	Toluene-D8	BSP	SURR	93	%	89-112
VI2788-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	99	%	85-114
FC1239-2MS*	156-59-2	cis-1,2-Dichloroethylene	MS	REC	96	%	78-123
FC1239-2MS*	156-60-5	trans-1,2-Dichloroethylene	MS	REC	94	%	75-124
FC1239-2MS*	79-01-6	Trichloroethylene	MS	REC	81	%	79-123
FC1239-2MS*	75-01-4	Vinyl Chloride	MS	REC	99	%	58-137
FC1239-2MS*	1868-53-7	Dibromofluoromethane	MS	SURR	106	%	80-119
FC1239-2MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	108	%	81-118
FC1239-2MS*	2037-26-5	Toluene-D8	MS	SURR	94	%	89-112
FC1239-2MS*	460-00-4	4-Bromofluorobenzene	MS	SURR	97	%	85-114
FC1239-2MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	100	%	78-123
FC1239-2MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	4	%	20
FC1239-2MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	REC	98	%	75-124
FC1239-2MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	RPD	4	%	20
FC1239-2MSD*	79-01-6	Trichloroethylene	MSD	REC	81	%	79-123

* Sample used for QC is not from job FC1200

QC Evaluation: DOD QSM5.x Limits

Job Number: FC1200
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/07/22 thru 12/09/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC1239-2MSD*	79-01-6	Trichloroethylene	MSD	RPD	0	%	20
FC1239-2MSD*	75-01-4	Vinyl Chloride	MSD	REC	100	%	58-137
FC1239-2MSD*	75-01-4	Vinyl Chloride	MSD	RPD	1	%	20
FC1239-2MSD*	1868-53-7	Dibromofluoromethane	MSD	SURR	107	%	80-119
FC1239-2MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	108	%	81-118
FC1239-2MSD*	2037-26-5	Toluene-D8	MSD	SURR	93	%	89-112
FC1239-2MSD*	460-00-4	4-Bromofluorobenzene	MSD	SURR	99	%	85-114
VI2788-MB	1868-53-7	Dibromofluoromethane	MB	SURR	106	%	80-119
VI2788-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	102	%	81-118
VI2788-MB	2037-26-5	Toluene-D8	MB	SURR	93	%	89-112
VI2788-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	103	%	85-114
FC1200-3	1868-53-7	Dibromofluoromethane	SAMP	SURR	108	%	80-119
FC1200-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	104	%	81-118
FC1200-3	2037-26-5	Toluene-D8	SAMP	SURR	91	%	89-112
FC1200-3	460-00-4	4-Bromofluorobenzene	SAMP	SURR	105	%	85-114
FC1200-11	1868-53-7	Dibromofluoromethane	SAMP	SURR	109	%	80-119
FC1200-11	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	106	%	81-118
FC1200-11	2037-26-5	Toluene-D8	SAMP	SURR	90	%	89-112
FC1200-11	460-00-4	4-Bromofluorobenzene	SAMP	SURR	103	%	85-114
FC1200-15	1868-53-7	Dibromofluoromethane	SAMP	SURR	109	%	80-119
FC1200-15	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	104	%	81-118
FC1200-15	2037-26-5	Toluene-D8	SAMP	SURR	92	%	89-112
FC1200-15	460-00-4	4-Bromofluorobenzene	SAMP	SURR	104	%	85-114
FC1200-17	1868-53-7	Dibromofluoromethane	SAMP	SURR	108	%	80-119
FC1200-17	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	106	%	81-118
FC1200-17	2037-26-5	Toluene-D8	SAMP	SURR	91	%	89-112
FC1200-17	460-00-4	4-Bromofluorobenzene	SAMP	SURR	105	%	85-114

(a) Outside DOD QSM control limits.
(b) Outside control limits due to high level in sample relative to spike amount.

* Sample used for QC is not from job FC1200

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: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1P3644-MB [a]	1P96230.D	1	12/12/22	CF	n/a	n/a	V1P3644

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

FC1200-1, FC1200-2, FC1200-4, FC1200-5, FC1200-6, FC1200-7, FC1200-8, FC1200-9, FC1200-10

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	106%	83-118%

(a) Sample was treated with an anti-foaming agent.

Method Blank Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3657-MB [a]	2P96231.D	1	12/12/22	CF	n/a	n/a	V2P3657

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

FC1200-12, FC1200-13, FC1200-14, FC1200-16, FC1200-18, FC1200-19, FC1200-20, FC1200-21, FC1200-22

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	107%	83-118%

(a) Sample was treated with an anti-foaming agent.

Method Blank Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1697-MB	1A42123.D	1	12/13/22	JL	n/a	n/a	V1A1697

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

FC1200-23, FC1200-24, FC1200-25, FC1200-26, FC1200-27, FC1200-28, FC1200-29

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

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

(a) No TICs detected.

Method Blank Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3658-MB [a]	2P96279.D	1	12/13/22	CF	n/a	n/a	V2P3658

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

FC1200-5, FC1200-6

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	95%	85-112%
460-00-4	4-Bromofluorobenzene	107%	83-118%

(a) Sample was treated with an anti-foaming agent.

Method Blank Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1698-MB [a]	1A42153.D	1	12/14/22	JL	n/a	n/a	V1A1698

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

FC1200-24

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	89%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

(a) Sample was treated with an anti-foaming agent.

Method Blank Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI2788-MB [a]	I753619.D	1	12/15/22	KG	n/a	n/a	VI2788

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

FC1200-3, FC1200-11, FC1200-15, FC1200-17

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	93%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

(a) Sample was treated with an anti-foaming agent.

Blank Spike Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1P3644-BS	1P96226.D	1	12/12/22	CF	n/a	n/a	V1P3644

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

FC1200-1, FC1200-2, FC1200-4, FC1200-5, FC1200-6, FC1200-7, FC1200-8, FC1200-9, FC1200-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	25.9	104	78-120
156-60-5	trans-1,2-Dichloroethylene	25	25.2	101	76-127
79-01-6	Trichloroethylene	25	24.7	99	81-126
75-01-4	Vinyl Chloride	25	23.2	93	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3657-BS	2P96227.D	1	12/12/22	CF	n/a	n/a	V2P3657

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

FC1200-12, FC1200-13, FC1200-14, FC1200-16, FC1200-18, FC1200-19, FC1200-20, FC1200-21, FC1200-22

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	24.7	99	78-120
156-60-5	trans-1,2-Dichloroethylene	25	23.8	95	76-127
79-01-6	Trichloroethylene	25	24.4	98	81-126
75-01-4	Vinyl Chloride	25	22.4	90	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	97%	85-112%
460-00-4	4-Bromofluorobenzene	107%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1697-BS	1A42121.D	1	12/13/22	JL	n/a	n/a	V1A1697

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

FC1200-23, FC1200-24, FC1200-25, FC1200-26, FC1200-27, FC1200-28, FC1200-29

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	24.1	96	78-120
156-60-5	trans-1,2-Dichloroethylene	25	24.3	97	76-127
79-01-6	Trichloroethylene	25	24.3	97	81-126
75-01-4	Vinyl Chloride	25	22.2	89	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3658-BS	2P96275.D	1	12/13/22	CF	n/a	n/a	V2P3658

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

FC1200-5, FC1200-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	26.3	105	78-120
156-60-5	trans-1,2-Dichloroethylene	25	25.6	102	76-127
79-01-6	Trichloroethylene	25	25.8	103	81-126
75-01-4	Vinyl Chloride	25	24.3	97	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	107%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1698-BS	1A42151.D	1	12/14/22	JL	n/a	n/a	V1A1698

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

FC1200-24

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	19.4	78	78-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	88%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI2788-BS	I753617.D	1	12/15/22	KG	n/a	n/a	VI2788

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

FC1200-3, FC1200-11, FC1200-15, FC1200-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	27.5	110	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.9	108	76-127
79-01-6	Trichloroethylene	25	26.2	105	81-126
75-01-4	Vinyl Chloride	25	29.1	116	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	109%	79-125%
2037-26-5	Toluene-D8	93%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC1074-1MS	1P96264.D	5	12/12/22	CF	n/a	n/a	V1P3644
FC1074-1MSD	1P96266.D	5	12/12/22	CF	n/a	n/a	V1P3644
FC1074-1	1P96238.D	1	12/12/22	CF	n/a	n/a	V1P3644

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

FC1200-1, FC1200-2, FC1200-4, FC1200-5, FC1200-6, FC1200-7, FC1200-8, FC1200-9, FC1200-10

CAS No.	Compound	FC1074-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	0.38		125	138	110	125	140	112	1	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		125	135	108	125	130	104	4	76-127/17
79-01-6	Trichloroethylene	ND		125	131	105	125	130	104	1	81-126/15
75-01-4	Vinyl Chloride	ND		125	106	85	125	97.8	78	8	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FC1074-1	Limits
1868-53-7	Dibromofluoromethane	110%	108%	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	110%	106%	107%	79-125%
2037-26-5	Toluene-D8	95%	98%	99%	85-112%
460-00-4	4-Bromofluorobenzene	104%	106%	105%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC1200-21MS	2P96265.D	10	12/12/22	CF	n/a	n/a	V2P3657
FC1200-21MSD	2P96267.D	10	12/12/22	CF	n/a	n/a	V2P3657
FC1200-21 [a]	2P96257.D	2	12/12/22	CF	n/a	n/a	V2P3657

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

FC1200-12, FC1200-13, FC1200-14, FC1200-16, FC1200-18, FC1200-19, FC1200-20, FC1200-21, FC1200-22

CAS No.	Compound	FC1200-21 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	48.9		250	296	99	250	296	99	0	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.7	J	250	257	102	250	253	101	2	76-127/17
79-01-6	Trichloroethylene	1.1	J	250	259	103	250	258	103	0	81-126/15
75-01-4	Vinyl Chloride	2.0 U		250	235	94	250	215	86	9	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FC1200-21	Limits
1868-53-7	Dibromofluoromethane	106%	104%	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	101%	106%	79-125%
2037-26-5	Toluene-D8	95%	99%	99%	85-112%
460-00-4	4-Bromofluorobenzene	104%	109%	106%	83-118%

(a) Sample vial(s) contained bubbles greater than 6mm.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC1200-25MS	1A42144.D	10	12/13/22	JL	n/a	n/a	V1A1697
FC1200-25MSD	1A42145.D	10	12/13/22	JL	n/a	n/a	V1A1697
FC1200-25 [a]	1A42143.D	2	12/13/22	JL	n/a	n/a	V1A1697

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

FC1200-23, FC1200-24, FC1200-25, FC1200-26, FC1200-27, FC1200-28, FC1200-29

CAS No.	Compound	FC1200-25 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	66.4		250	272	82	250	260	77*	5	78-120/15
156-60-5	trans-1,2-Dichloroethylene	3.2		250	207	82	250	197	78	5	76-127/17
79-01-6	Trichloroethylene	2.0 U		250	217	87	250	204	82	6	81-126/15
75-01-4	Vinyl Chloride	2.0 U		250	221	88	250	194	78	13	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FC1200-25	Limits
1868-53-7	Dibromofluoromethane	89%	88%	92%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	97%	97%	79-125%
2037-26-5	Toluene-D8	99%	98%	99%	85-112%
460-00-4	4-Bromofluorobenzene	98%	97%	98%	83-118%

(a) Sample was treated with an anti-foaming agent.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC1200-5MS	2P96313.D	10	12/13/22	CF	n/a	n/a	V2P3658
FC1200-5MSD	2P96315.D	10	12/13/22	CF	n/a	n/a	V2P3658
FC1200-5	2P96295.D	10	12/13/22	CF	n/a	n/a	V2P3658

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

FC1200-5, FC1200-6

CAS No.	Compound	FC1200-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	198		250	447	100	250	448	100	0	78-120/15
156-60-5	trans-1,2-Dichloroethylene	10	U	250	247	99	250	246	98	0	76-127/17
79-01-6	Trichloroethylene	555		250	766	84	250	754	80* [a]	2	81-126/15
75-01-4	Vinyl Chloride	10	U	250	438	175*	250	213	85	69*	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FC1200-5	Limits
1868-53-7	Dibromofluoromethane	112%	112%	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	113%	110%	105%	79-125%
2037-26-5	Toluene-D8	94%	96%	98%	85-112%
460-00-4	4-Bromofluorobenzene	106%	110%	108%	83-118%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC1102-12MS	1A42163.D	5	12/14/22	JL	n/a	n/a	V1A1698
FC1102-12MSD	1A42164.D	5	12/14/22	JL	n/a	n/a	V1A1698
FC1102-12	1A42159.D	5	12/14/22	JL	n/a	n/a	V1A1698

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

FC1200-24

CAS No.	Compound	FC1102-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	5.0	U	125	100	80	125	101	81	1	78-120/15

CAS No.	Surrogate Recoveries	MS	MSD	FC1102-12	Limits
1868-53-7	Dibromofluoromethane	86%	87%	88%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	97%	96%	79-125%
2037-26-5	Toluene-D8	102%	102%	103%	85-112%
460-00-4	4-Bromofluorobenzene	102%	102%	97%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC1239-2MS	I753636.D	20	12/15/22	KG	n/a	n/a	VI2788
FC1239-2MSD	I753637.D	20	12/15/22	KG	n/a	n/a	VI2788
FC1239-2	I753629.D	20	12/15/22	KG	n/a	n/a	VI2788

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

FC1200-3, FC1200-11, FC1200-15, FC1200-17

CAS No.	Compound	FC1239-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	ND		500	478	96	500	500	100	4	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		500	470	94	500	489	98	4	76-127/17
79-01-6	Trichloroethylene	764		500	1170	81	500	1170	81	0	81-126/15
75-01-4	Vinyl Chloride	ND		500	493	99	500	498	100	1	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FC1239-2	Limits
1868-53-7	Dibromofluoromethane	106%	107%	108%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	108%	102%	79-125%
2037-26-5	Toluene-D8	94%	93%	93%	85-112%
460-00-4	4-Bromofluorobenzene	97%	99%	99%	83-118%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1696-BFB
Lab File ID: 1A42105.D
Instrument ID: GCMS1A
Injection Date: 12/12/22
Injection Time: 09:44

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	9811	17.8		Pass
75	30.0 - 60.0% of mass 95	26979	49.0		Pass
95	Base peak, 100% relative abundance	55021	100.0		Pass
96	5.0 - 9.0% of mass 95	3640	6.62		Pass
173	Less than 2.0% of mass 174	295	0.54	(0.62) [a]	Pass
174	50.0 - 100.0% of mass 95	47427	86.2		Pass
175	5.0 - 9.0% of mass 174	3398	6.18	(7.16) [a]	Pass
176	95.0 - 101.0% of mass 174	46184	83.9	(97.4) [a]	Pass
177	5.0 - 9.0% of mass 176	3012	5.47	(6.52) [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
V1A1696-IC1696	1A42106.D	12/12/22	10:35	00:51	Initial cal 1
V1A1696-IC1696	1A42107.D	12/12/22	12:27	02:43	Initial cal 2
V1A1696-IC1696	1A42108.D	12/12/22	12:51	03:07	Initial cal 3
V1A1696-IC1696	1A42109.D	12/12/22	13:14	03:30	Initial cal 4
V1A1696-ICC1696	1A42110.D	12/12/22	14:21	04:37	Initial cal 5
V1A1696-IC1696	1A42111.D	12/12/22	14:44	05:00	Initial cal 6
V1A1696-IC1696	1A42112.D	12/12/22	15:08	05:24	Initial cal 7
V1A1696-ICV1696	1A42114.D	12/12/22	15:56	06:12	Initial cal verification 5

Instrument Performance Check (BFB)

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1697-BFB
Lab File ID: 1A42119.D
Instrument ID: GCMS1A
Injection Date: 12/13/22
Injection Time: 09:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	9496	18.1		Pass
75	30.0 - 60.0% of mass 95	25784	49.0		Pass
95	Base peak, 100% relative abundance	52581	100.0		Pass
96	5.0 - 9.0% of mass 95	3447	6.56		Pass
173	Less than 2.0% of mass 174	301	0.57	(0.67) [a]	Pass
174	50.0 - 100.0% of mass 95	45077	85.7		Pass
175	5.0 - 9.0% of mass 174	3129	5.95	(6.94) [a]	Pass
176	95.0 - 101.0% of mass 174	44131	83.9	(97.9) [a]	Pass
177	5.0 - 9.0% of mass 176	2961	5.63	(6.71) [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
V1A1697-CC1696	1A42120.D	12/13/22	09:27	00:24	Continuing cal 5
V1A1697-BS	1A42121.D	12/13/22	09:50	00:47	Blank Spike
V1A1697-MB	1A42123.D	12/13/22	10:38	01:35	Method Blank
ZZZZZZ	1A42124.D	12/13/22	11:02	01:59	(unrelated sample)
ZZZZZZ	1A42125.D	12/13/22	11:26	02:23	(unrelated sample)
ZZZZZZ	1A42126.D	12/13/22	11:50	02:47	(unrelated sample)
ZZZZZZ	1A42127.D	12/13/22	12:13	03:10	(unrelated sample)
ZZZZZZ	1A42128.D	12/13/22	12:37	03:34	(unrelated sample)
ZZZZZZ	1A42129.D	12/13/22	13:01	03:58	(unrelated sample)
ZZZZZZ	1A42130.D	12/13/22	13:25	04:22	(unrelated sample)
ZZZZZZ	1A42132.D	12/13/22	14:12	05:09	(unrelated sample)
ZZZZZZ	1A42133.D	12/13/22	14:36	05:33	(unrelated sample)
ZZZZZZ	1A42134.D	12/13/22	15:00	05:57	(unrelated sample)
ZZZZZZ	1A42135.D	12/13/22	15:24	06:21	(unrelated sample)
ZZZZZZ	1A42136.D	12/13/22	15:48	06:45	(unrelated sample)
FC1200-23	1A42137.D	12/13/22	16:12	07:09	FDSA-MW0038-045.0-20221209
FC1200-24	1A42138.D	12/13/22	16:36	07:33	FDSA-MW0017D1-045.0-20221209
FC1200-26	1A42139.D	12/13/22	16:59	07:56	FDSA-MW0044-025.0-20221209
FC1200-27	1A42140.D	12/13/22	17:23	08:20	FDSA-MW0034-025.0-20221209
FC1200-28	1A42141.D	12/13/22	17:47	08:44	FDSA-MW0044-015.0-20221209
FC1200-29	1A42142.D	12/13/22	18:11	09:08	FDSA-MW0003S2-013.0-20221209
FC1200-25	1A42143.D	12/13/22	18:35	09:32	FDSA-MW0036-045.0-20221209
FC1200-25MS	1A42144.D	12/13/22	18:59	09:56	Matrix Spike
FC1200-25MSD	1A42145.D	12/13/22	19:23	10:20	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample:	V1A1697-BFB	**Injection Date:**	12/13/22
Lab File ID:	1A42119.D	**Injection Time:**	09:03
Instrument ID:	GCMS1A		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1A1697-ECC1696	1A42146.D	12/13/22	19:46	10:43	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1698-BFB
Lab File ID: 1A42149.D
Instrument ID: GCMS1A
Injection Date: 12/14/22
Injection Time: 09:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	9470	18.4		Pass
75	30.0 - 60.0% of mass 95	25424	49.4		Pass
95	Base peak, 100% relative abundance	51485	100.0		Pass
96	5.0 - 9.0% of mass 95	3344	6.50		Pass
173	Less than 2.0% of mass 174	311	0.60	(0.69) [a]	Pass
174	50.0 - 100.0% of mass 95	45015	87.4		Pass
175	5.0 - 9.0% of mass 174	3223	6.26	(7.16) [a]	Pass
176	95.0 - 101.0% of mass 174	43922	85.3	(97.6) [a]	Pass
177	5.0 - 9.0% of mass 176	2908	5.65	(6.62) [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
V1A1698-CC1696	1A42150.D	12/14/22	10:08	00:23	Continuing cal 5
V1A1699-BS	1A42151.D	12/14/22	10:32	00:47	Blank Spike
V1A1698-BS	1A42151.D	12/14/22	10:32	00:47	Blank Spike
V1A1698-MB	1A42153.D	12/14/22	11:19	01:34	Method Blank
V1A1699-MB	1A42153.D	12/14/22	11:19	01:34	Method Blank
ZZZZZZ	1A42154.D	12/14/22	11:43	01:58	(unrelated sample)
ZZZZZZ	1A42155.D	12/14/22	12:07	02:22	(unrelated sample)
ZZZZZZ	1A42157.D	12/14/22	12:55	03:10	(unrelated sample)
ZZZZZZ	1A42158.D	12/14/22	13:18	03:33	(unrelated sample)
FC1102-12	1A42159.D	12/14/22	13:42	03:57	(used for QC only; not part of job FC1200)
FC1200-24	1A42160.D	12/14/22	14:06	04:21	FDSA-MW0017D1-045.0-20221209
ZZZZZZ	1A42161.D	12/14/22	14:29	04:44	(unrelated sample)
ZZZZZZ	1A42162.D	12/14/22	14:53	05:08	(unrelated sample)
FC1102-12MS	1A42163.D	12/14/22	15:17	05:32	Matrix Spike
FC1102-12MSD	1A42164.D	12/14/22	15:41	05:56	Matrix Spike Duplicate
V1A1698-ECC1696	1A42165.D	12/14/22	16:04	06:19	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3621-BFB
Lab File ID: 1P94950.D
Instrument ID: GCMS1P
Injection Date: 11/04/22
Injection Time: 10:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	64154	20.8		Pass
75	30.0 - 60.0% of mass 95	165824	53.8		Pass
95	Base peak, 100% relative abundance	308138	100.0		Pass
96	5.0 - 9.0% of mass 95	21365	6.93		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	190554	61.8		Pass
175	5.0 - 9.0% of mass 174	13968	4.53	(7.33) [a]	Pass
176	95.0 - 101.0% of mass 174	184618	59.9	(96.9) [a]	Pass
177	5.0 - 9.0% of mass 176	11968	3.88	(6.48) [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
V1P3621-IC3621	1P94950.D	11/04/22	10:24	00:00	Initial cal 1
V1P3621-IC3621	1P94952.D	11/04/22	10:56	00:32	Initial cal 2
V1P3621-IC3621	1P94954.D	11/04/22	11:29	01:05	Initial cal 3
V1P3621-IC3621	1P94956.D	11/04/22	12:01	01:37	Initial cal 4
V1P3621-ICC3621	1P94958.D	11/04/22	12:33	02:09	Initial cal 5
V1P3621-IC3621	1P94960.D	11/04/22	13:05	02:41	Initial cal 6
V1P3621-IC3621	1P94962.D	11/04/22	13:37	03:13	Initial cal 7
V1P3621-CC3621	1P94968A.D	11/04/22	15:34	05:10	Continuing cal 5
V1P3621-ICV3621	1P94968.D	11/04/22	15:34	05:10	Initial cal verification 5
V1P3621-ICV3621	1P94970.D	11/04/22	16:05	05:41	Initial cal verification 4
V1P3621-BS	1P94970A.D	11/04/22	16:05	05:41	Blank Spike
V1P3621-MB	1P94974.D	11/04/22	17:11	06:47	Method Blank
ZZZZZZ	1P94976.D	11/04/22	17:43	07:19	(unrelated sample)
ZZZZZZ	1P94978.D	11/04/22	18:14	07:50	(unrelated sample)
ZZZZZZ	1P94980.D	11/04/22	18:45	08:21	(unrelated sample)
ZZZZZZ	1P94982.D	11/04/22	19:16	08:52	(unrelated sample)
ZZZZZZ	1P94984.D	11/04/22	19:47	09:23	(unrelated sample)
ZZZZZZ	1P94986.D	11/04/22	20:19	09:55	(unrelated sample)
ZZZZZZ	1P94988.D	11/04/22	20:50	10:26	(unrelated sample)
ZZZZZZ	1P94990.D	11/04/22	21:21	10:57	(unrelated sample)
V1P3621-ECC3621	1P94994.D	11/04/22	22:23	11:59	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3644-BFB
Lab File ID: 1P96224.D
Instrument ID: GCMS1P
Injection Date: 12/12/22
Injection Time: 10:02

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	43397	17.6		Pass
75	30.0 - 60.0% of mass 95	125416	50.9		Pass
95	Base peak, 100% relative abundance	246250	100.0		Pass
96	5.0 - 9.0% of mass 95	16134	6.55		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	180650	73.4		Pass
175	5.0 - 9.0% of mass 174	14143	5.74	(7.83) [a]	Pass
176	95.0 - 101.0% of mass 174	175317	71.2	(97.0) [a]	Pass
177	5.0 - 9.0% of mass 176	11258	4.57	(6.42) [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
V1P3644-CC3621	1P96224.D	12/12/22	10:02	00:00	Continuing cal 5
V1P3644-BS	1P96226.D	12/12/22	10:34	00:32	Blank Spike
V1P3644-MB	1P96230.D	12/12/22	11:38	01:36	Method Blank
ZZZZZZ	1P96232.D	12/12/22	12:10	02:08	(unrelated sample)
ZZZZZZ	1P96234.D	12/12/22	12:41	02:39	(unrelated sample)
ZZZZZZ	1P96236.D	12/12/22	13:14	03:12	(unrelated sample)
FC1074-1	1P96238.D	12/12/22	13:45	03:43	(used for QC only; not part of job FC1200)
ZZZZZZ	1P96240.D	12/12/22	14:17	04:15	(unrelated sample)
FC1200-1	1P96242.D	12/12/22	14:49	04:47	FDSA-MW0033-025.0-20221207
FC1200-2	1P96244.D	12/12/22	15:21	05:19	FDSA-MW0045-025.0-20221207
FC1200-3	1P96246.D	12/12/22	15:53	05:51	FDSA-MW0052-015.0-20221207
FC1200-4	1P96248.D	12/12/22	16:25	06:23	FDSA-MW0051-025.0-20221207
FC1200-5	1P96250.D	12/12/22	16:57	06:55	FDSA-MW0059-015.0-20221207
FC1200-6	1P96252.D	12/12/22	17:28	07:26	FDSA-MW0005-010.0-20221207
FC1200-7	1P96254.D	12/12/22	18:00	07:58	FDSA-MW0025S-010.0-20221207
FC1200-8	1P96256.D	12/12/22	18:32	08:30	FDSA-MW014S2-007.0-20221207
FC1200-9	1P96258.D	12/12/22	19:04	09:02	FDSA-MW0058-015.0-20221207
FC1200-10	1P96260.D	12/12/22	19:35	09:33	FDSA-MW0057-025.0-20221207
FC1074-1MS	1P96264.D	12/12/22	20:39	10:37	Matrix Spike
FC1074-1MSD	1P96266.D	12/12/22	21:10	11:08	Matrix Spike Duplicate
V1P3644-ECC3621	1P96268.D	12/12/22	21:42	11:40	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2A1677-BFB
Lab File ID: 2A42171.D
Instrument ID: GCMS2A
Injection Date: 12/16/22
Injection Time: 08:55

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	9531	17.8		Pass
75	30.0 - 60.0% of mass 95	26064	48.7		Pass
95	Base peak, 100% relative abundance	53549	100.0		Pass
96	5.0 - 9.0% of mass 95	3467	6.47		Pass
173	Less than 2.0% of mass 174	335	0.63	(0.70) [a]	Pass
174	50.0 - 100.0% of mass 95	47877	89.4		Pass
175	5.0 - 9.0% of mass 174	3469	6.48	(7.25) [a]	Pass
176	95.0 - 101.0% of mass 174	47005	87.8	(98.2) [a]	Pass
177	5.0 - 9.0% of mass 176	3012	5.62	(6.41) [b]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2A1677-IC1677	2A42173.D	12/16/22	10:08	01:13	Initial cal 1
V2A1677-IC1677	2A42175.D	12/16/22	10:43	01:48	Initial cal 2
V2A1677-IC1677	2A42177.D	12/16/22	11:19	02:24	Initial cal 3
V2A1677-IC1677	2A42179.D	12/16/22	11:54	02:59	Initial cal 4
V2A1677-ICC1677	2A42181.D	12/16/22	12:31	03:36	Initial cal 5
V2A1677-IC1677	2A42183.D	12/16/22	13:06	04:11	Initial cal 6
V2A1677-IC1677	2A42185.D	12/16/22	13:41	04:46	Initial cal 7
V2A1677-ICV1677	2A42189.D	12/16/22	15:19	06:24	Initial cal verification 5
V2A1677-BS	2A42191.D	12/16/22	15:54	06:59	Blank Spike
V2A1677-MB	2A42193.D	12/16/22	16:42	07:47	Method Blank
ZZZZZZ	2A42194.D	12/16/22	17:06	08:11	(unrelated sample)
ZZZZZZ	2A42195.D	12/16/22	17:30	08:35	(unrelated sample)
ZZZZZZ	2A42196.D	12/16/22	17:54	08:59	(unrelated sample)
ZZZZZZ	2A42197.D	12/16/22	18:18	09:23	(unrelated sample)
ZZZZZZ	2A42198.D	12/16/22	18:43	09:48	(unrelated sample)
ZZZZZZ	2A42199.D	12/16/22	19:07	10:12	(unrelated sample)
ZZZZZZ	2A42200.D	12/16/22	19:31	10:36	(unrelated sample)
V2A1677-ECC1677	2A42201.D	12/16/22	19:55	11:00	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2A1682-BFB
Lab File ID: 2A42430.D
Instrument ID: GCMS2A
Injection Date: 12/27/22
Injection Time: 12:11

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	8090	17.1		Pass
75	30.0 - 60.0% of mass 95	22323	47.1		Pass
95	Base peak, 100% relative abundance	47384	100.0		Pass
96	5.0 - 9.0% of mass 95	3232	6.82		Pass
173	Less than 2.0% of mass 174	304	0.64	(0.68) [a]	Pass
174	50.0 - 100.0% of mass 95	44672	94.3		Pass
175	5.0 - 9.0% of mass 174	3250	6.86	(7.28) [a]	Pass
176	95.0 - 101.0% of mass 174	43216	91.2	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	2860	6.04	(6.62) [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
V2A1682-CC1677	2A42432.D	12/27/22	12:45	00:34	Continuing cal 5
V2A1682-BS	2A42434.D	12/27/22	13:19	01:08	Blank Spike
V2A1682-MB	2A42437.D	12/27/22	14:11	02:00	Method Blank
FC1200-21	2A42438.D	12/27/22	14:35	02:24	FDSA-MW0035-045.0-20221208
FC1200-25	2A42439.D	12/27/22	14:59	02:48	FDSA-MW0036-045.0-20221209
ZZZZZZ	2A42440.D	12/27/22	15:23	03:12	(unrelated sample)
ZZZZZZ	2A42441.D	12/27/22	15:47	03:36	(unrelated sample)
ZZZZZZ	2A42442.D	12/27/22	16:11	04:00	(unrelated sample)
ZZZZZZ	2A42443.D	12/27/22	16:35	04:24	(unrelated sample)
ZZZZZZ	2A42444.D	12/27/22	16:59	04:48	(unrelated sample)
ZZZZZZ	2A42445.D	12/27/22	17:23	05:12	(unrelated sample)
FC1563-3	2A42446.D	12/27/22	17:47	05:36	(used for QC only; not part of job FC1200)
ZZZZZZ	2A42447.D	12/27/22	18:11	06:00	(unrelated sample)
FC1563-3MS	2A42448.D	12/27/22	18:35	06:24	Matrix Spike
FC1563-3MSD	2A42449.D	12/27/22	18:59	06:48	Matrix Spike Duplicate
V2A1682-ECC1677	2A42450.D	12/27/22	19:23	07:12	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3622-BFB
Lab File ID: 2P94951.D
Instrument ID: GCMS2P
Injection Date: 11/04/22
Injection Time: 10:40

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	62589	20.2		Pass
75	30.0 - 60.0% of mass 95	161461	52.2		Pass
95	Base peak, 100% relative abundance	309482	100.0		Pass
96	5.0 - 9.0% of mass 95	20030	6.47		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	200341	64.7		Pass
175	5.0 - 9.0% of mass 174	14034	4.53	(7.01) [a]	Pass
176	95.0 - 101.0% of mass 174	195562	63.2	(97.6) [a]	Pass
177	5.0 - 9.0% of mass 176	12509	4.04	(6.40) [b]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2P3622-IC3622	2P94951.D	11/04/22	10:40	00:00	Initial cal 1
V2P3622-IC3622	2P94953.D	11/04/22	11:12	00:32	Initial cal 2
V2P3622-IC3622	2P94955.D	11/04/22	11:45	01:05	Initial cal 3
V2P3622-IC3622	2P94957.D	11/04/22	12:17	01:37	Initial cal 4
V2P3622-ICC3622	2P94959.D	11/04/22	12:49	02:09	Initial cal 5
V2P3622-IC3622	2P94961.D	11/04/22	13:21	02:41	Initial cal 6
V2P3622-IC3622	2P94963.D	11/04/22	13:53	03:13	Initial cal 7
V2P3622-ICV3622	2P94969.D	11/04/22	15:50	05:10	Initial cal verification 5
V2P3622-CC3622	2P94969A.D	11/04/22	15:50	05:10	Continuing cal 5
V2P3622-ICV3622	2P94971.D	11/04/22	16:21	05:41	Initial cal verification 4
V2P3622-BS	2P94971A.D	11/04/22	16:21	05:41	Blank Spike
V2P3622-MB	2P94975.D	11/04/22	17:27	06:47	Method Blank
ZZZZZZ	2P94977.D	11/04/22	17:58	07:18	(unrelated sample)
ZZZZZZ	2P94979.D	11/04/22	18:30	07:50	(unrelated sample)
ZZZZZZ	2P94981.D	11/04/22	19:01	08:21	(unrelated sample)
ZZZZZZ	2P94983.D	11/04/22	19:32	08:52	(unrelated sample)
ZZZZZZ	2P94985.D	11/04/22	20:03	09:23	(unrelated sample)
ZZZZZZ	2P94987.D	11/04/22	20:34	09:54	(unrelated sample)
ZZZZZZ	2P94989.D	11/04/22	21:05	10:25	(unrelated sample)
ZZZZZZ	2P94991.D	11/04/22	21:36	10:56	(unrelated sample)
ZZZZZZ	2P94993.D	11/04/22	22:07	11:27	(unrelated sample)
V2P3622-ECC3622	2P94995.D	11/04/22	22:38	11:58	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3657-BFB
Lab File ID: 2P96225.D
Instrument ID: GCMS2P
Injection Date: 12/12/22
Injection Time: 10:18

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	52885	18.7		Pass
75	30.0 - 60.0% of mass 95	144322	51.2		Pass
95	Base peak, 100% relative abundance	282090	100.0		Pass
96	5.0 - 9.0% of mass 95	18800	6.66		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	189090	67.0		Pass
175	5.0 - 9.0% of mass 174	14875	5.27	(7.87) [a]	Pass
176	95.0 - 101.0% of mass 174	182701	64.8	(96.6) [a]	Pass
177	5.0 - 9.0% of mass 176	12323	4.37	(6.74) [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
V2P3657-CC3622	2P96225.D	12/12/22	10:18	00:00	Continuing cal 5
V2P3657-BS	2P96227.D	12/12/22	10:50	00:32	Blank Spike
V2P3657-MB	2P96231.D	12/12/22	11:54	01:36	Method Blank
FC1200-12	2P96233.D	12/12/22	12:25	02:07	FDSA-TB-000.0-20221207
ZZZZZZ	2P96235.D	12/12/22	12:57	02:39	(unrelated sample)
ZZZZZZ	2P96237.D	12/12/22	13:29	03:11	(unrelated sample)
ZZZZZZ	2P96239.D	12/12/22	14:01	03:43	(unrelated sample)
FC1200-13	2P96241.D	12/12/22	14:33	04:15	FDSA-MW0047-015.0-20221208
FC1200-14	2P96243.D	12/12/22	15:05	04:47	FDSA-MW0050-025.0-20221208
FC1200-15	2P96245.D	12/12/22	15:37	05:19	FDSA-MW0031-012.5-20221208
FC1200-16	2P96247.D	12/12/22	16:09	05:51	FDSA-MW0048-015.0-20221208
FC1200-17	2P96249.D	12/12/22	16:41	06:23	FDSA-MW0016S2-007.0-20221208
FC1200-18	2P96251.D	12/12/22	17:12	06:54	FDSA-MW0015S2-006.0-20221208
FC1200-19	2P96253.D	12/12/22	17:44	07:26	FDSA-MW0022S2-015.0-20221208
FC1200-20	2P96255.D	12/12/22	18:16	07:58	FDSA-MW0029-015.0-20221208
FC1200-21	2P96257.D	12/12/22	18:47	08:29	FDSA-MW0035-045.0-20221208
FC1200-22	2P96259.D	12/12/22	19:19	09:01	FDSA-MW0039-045.0-20221208
FC995-5MS	2P96261.D	12/12/22	19:51	09:33	Matrix Spike
FC995-5MSD	2P96263.D	12/12/22	20:23	10:05	Matrix Spike Duplicate
FC1200-21MS	2P96265.D	12/12/22	20:55	10:37	Matrix Spike
FC1200-21MSD	2P96267.D	12/12/22	21:26	11:08	Matrix Spike Duplicate
V2P3657-ECC3622	2P96269.D	12/12/22	21:58	11:40	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3658-BFB
Lab File ID: 2P96271.D
Instrument ID: GCMS2P
Injection Date: 12/13/22
Injection Time: 09:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	44997	17.0		Pass
75	30.0 - 60.0% of mass 95	131093	49.6		Pass
95	Base peak, 100% relative abundance	264256	100.0		Pass
96	5.0 - 9.0% of mass 95	17302	6.55		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	188800	71.4		Pass
175	5.0 - 9.0% of mass 174	14829	5.61	(7.85) [a]	Pass
176	95.0 - 101.0% of mass 174	185770	70.3	(98.4) [a]	Pass
177	5.0 - 9.0% of mass 176	12377	4.68	(6.66) [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
V2P3658-CC3622	2P96273.D	12/13/22	10:17	00:32	Continuing cal 5
V2P3658-BS	2P96275.D	12/13/22	10:49	01:04	Blank Spike
V2P3659-BS	2P96275.D	12/13/22	10:49	01:04	Blank Spike
V2P3658-MB	2P96279.D	12/13/22	11:54	02:09	Method Blank
OP94481-LB	2P96281.D	12/13/22	12:25	02:40	Leachate Blank
FC1200-6	2P96283.D	12/13/22	12:57	03:12	FDSA-MW0005-010.0-20221207
FC1200-11	2P96293.D	12/13/22	15:37	05:52	FDSA-MW0055-025.0-20221207
FC1200-5	2P96295.D	12/13/22	16:08	06:23	FDSA-MW0059-015.0-20221207
ZZZZZZ	2P96297.D	12/13/22	16:40	06:55	(unrelated sample)
ZZZZZZ	2P96299.D	12/13/22	17:12	07:27	(unrelated sample)
ZZZZZZ	2P96301.D	12/13/22	17:44	07:59	(unrelated sample)
ZZZZZZ	2P96303.D	12/13/22	18:16	08:31	(unrelated sample)
ZZZZZZ	2P96305.D	12/13/22	18:47	09:02	(unrelated sample)
FC1193-1	2P96307.D	12/13/22	19:19	09:34	(used for QC only; not part of job FC1200)
FC1193-1MS	2P96309.D	12/13/22	19:51	10:06	Matrix Spike
FC1193-1MSD	2P96311.D	12/13/22	20:23	10:38	Matrix Spike Duplicate
FC1200-5MS	2P96313.D	12/13/22	20:54	11:09	Matrix Spike
FC1200-5MSD	2P96315.D	12/13/22	21:26	11:41	Matrix Spike Duplicate
V2P3658-ECC3622	2P96317.D	12/13/22	21:58	12:13	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VI2765-BFB
Lab File ID: I753066.D
Instrument ID: GCMSI
Injection Date: 11/30/22
Injection Time: 10:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	21861	24.7		Pass
75	30.0 - 60.0% of mass 95	45997	51.9		Pass
95	Base peak, 100% relative abundance	88557	100.0		Pass
96	5.0 - 9.0% of mass 95	5702	6.44		Pass
173	Less than 2.0% of mass 174	756	0.85	(0.98) [a]	Pass
174	50.0 - 100.0% of mass 95	76973	86.9		Pass
175	5.0 - 9.0% of mass 174	5871	6.63	(7.63) [a]	Pass
176	95.0 - 101.0% of mass 174	74744	84.4	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	5025	5.67	(6.72) [b]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VI2765-IC2765	I753067.D	11/30/22	10:36	00:24	Initial cal 1
VI2765-IC2765	I753068.D	11/30/22	11:34	01:22	Initial cal 2
VI2765-IC2765	I753069.D	11/30/22	11:57	01:45	Initial cal 3
VI2765-IC2765	I753070.D	11/30/22	12:21	02:09	Initial cal 4
VI2765-ICC2765	I753071.D	11/30/22	12:44	02:32	Initial cal 5
VI2765-IC2765	I753072.D	11/30/22	13:08	02:56	Initial cal 6
VI2765-IC2765	I753073.D	11/30/22	13:31	03:19	Initial cal 7
VI2765-CC2765	I753075A.D	11/30/22	14:19	04:07	Continuing cal 5
VI2765-ICV2765	I753075.D	11/30/22	14:19	04:07	Initial cal verification 5
VI2765-ICV2765	I753076.D	11/30/22	14:42	04:30	Initial cal verification 4
VI2765-BS	I753076A.D	11/30/22	14:42	04:30	Blank Spike
VI2765-MB	I753079.D	11/30/22	15:53	05:41	Method Blank
ZZZZZZ	I753080.D	11/30/22	16:16	06:04	(unrelated sample)
ZZZZZZ	I753081.D	11/30/22	16:40	06:28	(unrelated sample)
ZZZZZZ	I753082.D	11/30/22	17:03	06:51	(unrelated sample)
FC520-19	I753083.D	11/30/22	17:27	07:15	(used for QC only; not part of job FC1200)
ZZZZZZ	I753084.D	11/30/22	17:50	07:38	(unrelated sample)
ZZZZZZ	I753085.D	11/30/22	18:14	08:02	(unrelated sample)
ZZZZZZ	I753086.D	11/30/22	18:37	08:25	(unrelated sample)
ZZZZZZ	I753087.D	11/30/22	19:01	08:49	(unrelated sample)
ZZZZZZ	I753088.D	11/30/22	19:24	09:12	(unrelated sample)
ZZZZZZ	I753089.D	11/30/22	19:48	09:36	(unrelated sample)
ZZZZZZ	I753090.D	11/30/22	20:11	09:59	(unrelated sample)
ZZZZZZ	I753091.D	11/30/22	20:35	10:23	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample:	VI2765-BFB	**Injection Date:**	11/30/22
Lab File ID:	I753066.D	**Injection Time:**	10:12
Instrument ID:	GCMSI		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FC520-19MS	I753092.D	11/30/22	20:58	10:46	Matrix Spike
FC520-19MSD	I753093.D	11/30/22	21:22	11:10	Matrix Spike Duplicate
VI2765-ECC2765	I753094.D	11/30/22	21:46	11:34	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VI2788-BFB
Lab File ID: I753616.D
Instrument ID: GCMSI
Injection Date: 12/15/22
Injection Time: 09:44

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	18250	26.0		Pass
75	30.0 - 60.0% of mass 95	37779	53.9		Pass
95	Base peak, 100% relative abundance	70139	100.0		Pass
96	5.0 - 9.0% of mass 95	4946	7.05		Pass
173	Less than 2.0% of mass 174	680	0.97	(1.09) [a]	Pass
174	50.0 - 100.0% of mass 95	62568	89.2		Pass
175	5.0 - 9.0% of mass 174	4765	6.79	(7.62) [a]	Pass
176	95.0 - 101.0% of mass 174	61141	87.2	(97.7) [a]	Pass
177	5.0 - 9.0% of mass 176	3934	5.61	(6.43) [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
VI2788-CC2765	I753616.D	12/15/22	09:44	00:00	Continuing cal 5
VI2788-BS	I753617.D	12/15/22	10:07	00:23	Blank Spike
VI2788-MB	I753619.D	12/15/22	10:54	01:10	Method Blank
ZZZZZZ	I753620.D	12/15/22	11:18	01:34	(unrelated sample)
ZZZZZZ	I753621.D	12/15/22	11:42	01:58	(unrelated sample)
FC1200-3	I753622.D	12/15/22	12:05	02:21	FDSA-MW0052-015.0-20221207
FC1200-11	I753624.D	12/15/22	12:53	03:09	FDSA-MW0055-025.0-20221207
FC1200-15	I753625.D	12/15/22	13:16	03:32	FDSA-MW0031-012.5-20221208
FC1200-17	I753626.D	12/15/22	13:40	03:56	FDSA-MW0016S2-007.0-20221208
ZZZZZZ	I753627.D	12/15/22	14:03	04:19	(unrelated sample)
ZZZZZZ	I753628.D	12/15/22	14:27	04:43	(unrelated sample)
FC1239-2	I753629.D	12/15/22	14:51	05:07	(used for QC only; not part of job FC1200)
ZZZZZZ	I753630.D	12/15/22	15:14	05:30	(unrelated sample)
ZZZZZZ	I753631.D	12/15/22	15:38	05:54	(unrelated sample)
ZZZZZZ	I753632.D	12/15/22	16:02	06:18	(unrelated sample)
ZZZZZZ	I753633.D	12/15/22	16:25	06:41	(unrelated sample)
ZZZZZZ	I753634.D	12/15/22	16:49	07:05	(unrelated sample)
ZZZZZZ	I753635.D	12/15/22	17:12	07:28	(unrelated sample)
FC1239-2MS	I753636.D	12/15/22	17:36	07:52	Matrix Spike
FC1239-2MSD	I753637.D	12/15/22	17:59	08:15	Matrix Spike Duplicate
VI2788-ECC2765	I753638.D	12/15/22	18:23	08:39	Ending cal 5

Internal Standard Area Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Check Std:	V1A1697-CC1696	**Injection Date:**	12/13/22
Lab File ID:	1A42120.D	**Injection Time:**	09:27
Instrument ID:	GCMS1A	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	223236	3.65	179818	5.64	94348	7.38
Check Std [b]	223041	3.65	181378	5.64	95040	7.38
Upper Limit [c]	446082	3.82	362756	5.81	190080	7.55
Lower Limit [d]	111521	3.48	90689	5.47	47520	7.21

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V1A1697-BS	217530	3.65	180137	5.64	95431	7.38
V1A1697-MB	203154	3.65	168877	5.64	90825	7.38
ZZZZZZ	200606	3.65	166158	5.64	89681	7.38
ZZZZZZ	203046	3.65	169255	5.64	92316	7.38
ZZZZZZ	199059	3.65	167441	5.64	90460	7.38
ZZZZZZ	198501	3.65	168169	5.64	92233	7.38
ZZZZZZ	202470	3.65	171609	5.64	93285	7.38
ZZZZZZ	201088	3.65	170802	5.64	93685	7.38
ZZZZZZ	206453	3.65	174130	5.64	95613	7.38
ZZZZZZ	193546	3.65	167522	5.64	92363	7.38
ZZZZZZ	194450	3.65	168042	5.64	92385	7.38
ZZZZZZ	195308	3.65	168339	5.64	93116	7.38
ZZZZZZ	192306	3.65	166642	5.64	92713	7.38
ZZZZZZ	191822	3.65	165104	5.64	91646	7.38
FC1200-23 [e]	190617	3.65	164371	5.64	92527	7.38
FC1200-24 [f]	189793	3.65	166184	5.64	95000	7.38
FC1200-26 [g]	190098	3.65	164843	5.64	93161	7.38
FC1200-27 [g]	191007	3.65	162667	5.64	91999	7.38
FC1200-28 [g]	189862	3.65	160557	5.64	91710	7.38
FC1200-29 [g]	191931	3.65	163614	5.64	90558	7.38
FC1200-25 [g]	195303	3.65	162048	5.64	89361	7.38
FC1200-25MS	212860	3.65	171962	5.64	93904	7.38
FC1200-25MSD	216237	3.65	174159	5.64	94853	7.38
V1A1697-ECC1696	220697	3.65	177144	5.64	93716	7.38

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: V1A1696-ICC1696 1A42110.D 12/12/22 14:21
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Internal Standard Area Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Check Std:	V1A1697-CC1696	**Injection Date:**	12/13/22
Lab File ID:	1A42120.D	**Injection Time:**	09:27
Instrument ID:	GCMS1A	**Method:**	SW846 8260D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT

(e) Sample vial(s) contained bubbles greater than 6mm.
(f) Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm.
(g) Sample was treated with an anti-foaming agent.

Internal Standard Area Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Check Std:	V1A1698-CC1696	**Injection Date:**	12/14/22
Lab File ID:	1A42150.D	**Injection Time:**	10:08
Instrument ID:	GCMS1A	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	223236	3.65	179818	5.64	94348	7.38
Check Std [b]	237634	3.65	182659	5.64	94553	7.38
Upper Limit [c]	475268	3.82	365318	5.81	189106	7.55
Lower Limit [d]	118817	3.48	91330	5.47	47277	7.21

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V1A1699-BS	231107	3.65	178377	5.64	95372	7.38
V1A1698-BS	231107	3.65	178377	5.64	95372	7.38
V1A1698-MB [e]	213428	3.65	165844	5.64	88641	7.38
V1A1699-MB	213428	3.65	165844	5.64	88641	7.38
ZZZZZZ	218447	3.65	165256	5.64	88758	7.38
ZZZZZZ	211724	3.65	164809	5.64	87247	7.38
ZZZZZZ	214788	3.65	160936	5.64	86250	7.38
ZZZZZZ	212271	3.65	162408	5.64	85974	7.38
FC1102-12	210085	3.65	160317	5.64	86570	7.38
FC1200-24 [f]	211198	3.65	160119	5.64	85437	7.38
ZZZZZZ	207356	3.65	158014	5.64	85355	7.38
ZZZZZZ	254469	3.65	168393	5.64	84041	7.38
FC1102-12MS	236862	3.65	177386	5.64	90836	7.38
FC1102-12MSD	237090	3.65	177521	5.64	91545	7.38
V1A1698-ECC1696	240183	3.65	179815	5.64	92346	7.38

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: V1A1696-ICC1696 1A42110.D 12/12/22 14:21
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
(e) Sample was treated with an anti-foaming agent.
(f) Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent.

Internal Standard Area Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Check Std:	V1P3644-CC3621	**Injection Date:**	12/12/22
Lab File ID:	1P96224.D	**Injection Time:**	10:02
Instrument ID:	GCMS1P	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	1492751	3.72	973140	5.64	417254	7.33
Check Std [b]	1011468	3.71	658699	5.64	300006	7.33
Upper Limit [c]	2022936	3.88	1317398	5.81	600012	7.50
Lower Limit [d]	505734	3.54	329350	5.47	150003	7.16

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V1P3644-BS	1115635	3.72	728730	5.64	324170	7.33
V1P3644-MB [e]	1110651	3.72	704306	5.64	291338	7.33
ZZZZZZ	1075768	3.71	682065	5.64	277806	7.33
ZZZZZZ	1035988	3.72	651404	5.64	267293	7.33
ZZZZZZ	993743	3.72	636833	5.64	265593	7.33
FC1074-1	971838	3.72	627173	5.64	261793	7.33
ZZZZZZ	934678	3.71	596930	5.64	246999	7.33
FC1200-1 [e]	884684	3.72	561426	5.64	231342	7.33
FC1200-2 [f]	882056	3.72	560013	5.64	231882	7.33
FC1200-3 [g]	869943	3.72	550117	5.64	224641	7.33
FC1200-4 [f]	854826	3.72	547705	5.64	230146	7.33
FC1200-5 [e]	854428	3.72	552331	5.64	224243	7.33
FC1200-6 [e]	847561	3.72	536435	5.64	219593	7.33
FC1200-7 [e]	830259	3.72	530908	5.64	219197	7.33
FC1200-8 [e]	811263	3.72	522559	5.64	216792	7.33
FC1200-9 [e]	782114	3.72	502777	5.64	203416	7.33
FC1200-10 [f]	752213	3.72	499650	5.64	207164	7.33
FC1074-1MS	849228	3.72	584924	5.64	263029	7.33
FC1074-1MSD	962823	3.72	638423	5.64	282159	7.33
V1P3644-ECC3621	964435	3.72	666386	5.64	300805	7.33

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: V1P3621-ICC3621 1P94958.D 11/04/22 12:33
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
(e) Sample was treated with an anti-foaming agent.
(f) Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm.
(g) Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm. Confirmation run.

Internal Standard Area Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Check Std:	V2A1682-CC1677	**Injection Date:**	12/27/22
Lab File ID:	2A42432.D	**Injection Time:**	12:45
Instrument ID:	GCMS2A	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	226426	3.65	178646	5.64	100356	7.38
Check Std [b]	202162	3.65	163475	5.64	94694	7.38
Upper Limit [c]	404324	3.82	326950	5.81	189388	7.55
Lower Limit [d]	101081	3.48	81738	5.47	47347	7.21

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V2A1682-BS	199742	3.65	161438	5.63	94717	7.38
V2A1682-MB	171230	3.65	143269	5.64	81894	7.38
FC1200-21 [e]	166202	3.65	140575	5.64	78322	7.38
FC1200-25 [f]	169480	3.65	142090	5.64	79252	7.38
ZZZZZZ	169143	3.65	144978	5.64	87185	7.38
ZZZZZZ	171493	3.65	143439	5.64	80786	7.38
ZZZZZZ	176311	3.65	147205	5.64	83632	7.38
ZZZZZZ	166612	3.65	141006	5.64	78975	7.38
ZZZZZZ	166105	3.65	139000	5.64	79080	7.38
ZZZZZZ	166146	3.65	140645	5.64	82982	7.38
FC1563-3	178298	3.65	143884	5.64	85599	7.38
ZZZZZZ	169862	3.65	142337	5.64	80974	7.38
FC1563-3MS	193977	3.65	153448	5.64	89661	7.38
FC1563-3MSD	199994	3.65	156137	5.64	91752	7.38
V2A1682-ECC1677	199886	3.65	161287	5.64	92547	7.38

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: V2A1677-ICC1677 2A42181.D 12/16/22 12:31
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
(e) Sample vial(s) contained bubbles greater than 6mm. Sample analyzed beyond hold time. Confirmation run.
(f) Sample analyzed beyond hold time. Confirmation run.

Internal Standard Area Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Check Std:	V2P3657-CC3622	**Injection Date:**	12/12/22
Lab File ID:	2P96225.D	**Injection Time:**	10:18
Instrument ID:	GCMS2P	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	1348521	3.72	946043	5.65	414772	7.33
Check Std [b]	1018103	3.72	721118	5.64	332246	7.33
Upper Limit [c]	2036206	3.89	1442236	5.81	664492	7.50
Lower Limit [d]	509052	3.55	360559	5.47	166123	7.16

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V2P3657-BS	1070089	3.72	750502	5.64	340285	7.33
V2P3657-MB [e]	1018363	3.72	694901	5.64	299022	7.33
FC1200-12	982079	3.72	660883	5.64	282621	7.33
ZZZZZZ	942357	3.72	639082	5.64	270681	7.33
ZZZZZZ	899676	3.72	612174	5.64	257699	7.33
ZZZZZZ	873129	3.72	608881	5.64	256673	7.33
FC1200-13 [e]	845780	3.72	579267	5.64	243981	7.33
FC1200-14 [f]	824955	3.72	567222	5.64	244967	7.33
FC1200-15 [g]	813322	3.72	551354	5.64	234170	7.33
FC1200-16 [f]	812670	3.72	553700	5.64	236350	7.33
FC1200-17 [g]	808291	3.72	545320	5.64	248192	7.33
FC1200-18 [e]	805723	3.72	549733	5.64	235368	7.33
FC1200-19 [e]	785244	3.72	531663	5.64	227003	7.33
FC1200-20 [e]	772544	3.72	526736	5.64	223436	7.33
FC1200-21 [h]	749493	3.72	510985	5.64	216866	7.33
FC1200-22 [f]	728010	3.72	500589	5.64	210503	7.33
FC1200-21MS	854150	3.72	638891	5.64	292386	7.33
FC1200-21MSD	945493	3.72	659415	5.64	292805	7.33
V2P3657-ECC3622	995270	3.72	706898	5.64	298814	7.33

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: V2P3622-ICC3622 2P94959.D 11/04/22 12:49
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
(e) Sample was treated with an anti-foaming agent.
(f) Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent.
(g) Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent. Confirmation run.
(h) Sample vial(s) contained bubbles greater than 6mm.

Internal Standard Area Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Check Std:	V2P3658-CC3622	**Injection Date:**	12/13/22
Lab File ID:	2P96273.D	**Injection Time:**	10:17
Instrument ID:	GCMS2P	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	1348521	3.72	946043	5.65	414772	7.33
Check Std [b]	1049542	3.72	753850	5.64	330124	7.33
Upper Limit [c]	2099084	3.89	1507700	5.81	660248	7.50
Lower Limit [d]	524771	3.55	376925	5.47	165062	7.16

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V2P3658-BS	1038273	3.72	762917	5.64	349515	7.33
V2P3659-BS	1038273	3.72	762917	5.64	349515	7.33
FC1200-6 [e]	942167	3.72	667983	5.64	287751	7.33
FC1200-11 [f]	780039	3.72	541147	5.64	238419	7.33
FC1200-5	747531	3.72	529992	5.64	225022	7.33
ZZZZZZ	749417	3.72	529577	5.64	227907	7.33
ZZZZZZ	669681	3.72	474909	5.64	208373	7.33
ZZZZZZ	703339	3.72	492664	5.64	218750	7.33
ZZZZZZ	714598	3.72	492897	5.64	214662	7.33
ZZZZZZ	700475	3.72	482984	5.64	214211	7.33
FC1193-1	633896	3.72	448766	5.64	212370	7.33
FC1193-1MS	666256	3.72	486400	5.64	235366	7.33
FC1193-1MSD	681545	3.72	502351	5.64	238211	7.33
FC1200-5MS	750937	3.72	549569	5.64	253272	7.33
FC1200-5MSD	783755	3.72	564696	5.64	260411	7.33
V2P3658-ECC3622	827030	3.72	590399	5.64	277194	7.33

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: V2P3622-ICC3622 2P94959.D 11/04/22 12:49
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
(e) Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm.
(f) Sample was treated with an anti-foaming agent. Sample vial(s) contained bubbles greater than 6mm. Confirmation run.

Internal Standard Area Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Check Std:	VI2788-CC2765	**Injection Date:**	12/15/22
Lab File ID:	I753616.D	**Injection Time:**	09:44
Instrument ID:	GCMSI	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	570328	8.34	388859	11.51	191614	13.88
Check Std [b]	355681	8.34	277773	11.51	145237	13.88
Upper Limit [c]	711362	8.51	555546	11.68	290474	14.05
Lower Limit [d]	177841	8.17	138887	11.34	72619	13.71

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VI2788-BS	350963	8.34	271250	11.51	140569	13.88
VI2788-MB [e]	311459	8.34	239880	11.51	119879	13.88
ZZZZZZ	313227	8.34	242293	11.51	116838	13.88
ZZZZZZ	307577	8.34	243876	11.51	118498	13.88
FC1200-3 [e]	302948	8.34	238981	11.51	114391	13.88
FC1200-11 [e]	302601	8.34	243259	11.51	119479	13.88
FC1200-15 [e]	294661	8.34	237400	11.51	116403	13.88
FC1200-17 [e]	307584	8.34	243891	11.51	119633	13.88
ZZZZZZ	300388	8.34	240461	11.51	116656	13.88
ZZZZZZ	306882	8.34	242249	11.51	117759	13.88
FC1239-2	302700	8.34	236766	11.51	116933	13.88
ZZZZZZ	307011	8.34	246770	11.51	120431	13.88
ZZZZZZ	310442	8.34	247779	11.51	121236	13.88
ZZZZZZ	314856	8.34	251987	11.51	123885	13.88
ZZZZZZ	318751	8.34	257521	11.51	126879	13.88
ZZZZZZ	331922	8.34	261103	11.51	127199	13.88
ZZZZZZ	342872	8.34	273046	11.51	134577	13.88
FC1239-2MS	373146	8.34	288994	11.51	151955	13.88
FC1239-2MSD	374326	8.34	292648	11.51	151069	13.88
VI2788-ECC2765	373955	8.34	295785	11.51	156131	13.88

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: VI2765-ICC2765 I753071.D 11/30/22 12:44
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
(e) Sample was treated with an anti-foaming agent.

Surrogate Recovery Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FC1200-1	1P96242.D	106	105	100	110
FC1200-2	1P96244.D	107	106	99	110
FC1200-3	I753622.D	108	104	91	105
FC1200-3	1P96246.D	106	105	100	112
FC1200-4	1P96248.D	108	107	100	106
FC1200-5	2P96295.D	106	105	98	108
FC1200-5	1P96250.D	106	105	98	112
FC1200-6	2P96283.D	104	96	95	104
FC1200-6	1P96252.D	106	105	100	110
FC1200-7	1P96254.D	107	108	100	108
FC1200-8	1P96256.D	107	110	99	106
FC1200-9	1P96258.D	109	109	99	109
FC1200-10	1P96260.D	110	114	99	113
FC1200-11	2P96293.D	107	108	97	105
FC1200-11	I753624.D	109	106	90	103
FC1200-12	2P96233.D	104	99	99	106
FC1200-13	2P96241.D	107	105	99	113
FC1200-14	2P96243.D	107	105	97	107
FC1200-15	I753625.D	109	104	92	104
FC1200-15	2P96245.D	105	104	99	109
FC1200-16	2P96247.D	106	106	98	111
FC1200-17	I753626.D	108	106	91	105
FC1200-17	2P96249.D	106	103	99	95
FC1200-18	2P96251.D	107	106	99	110
FC1200-19	2P96253.D	107	106	99	114
FC1200-20	2P96255.D	108	106	99	113
FC1200-21	2A42438.D	106	96	97	97
FC1200-21	2P96257.D	107	106	99	106
FC1200-22	2P96259.D	108	112	99	115 [a]
FC1200-23	1A42137.D	97	97	96	98
FC1200-24	1A42160.D	89	96	102	98
FC1200-24	1A42138.D	97	98	96	97
FC1200-25	2A42439.D	104	96	98	97
FC1200-25	1A42143.D	92	97	99	98
FC1200-26	1A42139.D	96	97	96	98
FC1200-27	1A42140.D	94	96	97	97
FC1200-28	1A42141.D	95	97	97	96
FC1200-29	1A42142.D	94	97	97	98
FC1074-1MS	1P96264.D	110	110	95	104
FC1074-1MSD	1P96266.D	108	106	98	106

Surrogate Recovery Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FC1102-12MS	1A42163.D	86	96	102	102
FC1102-12MSD	1A42164.D	87	97	102	102
FC1200-21MS	2P96265.D	106	108	95	104
FC1200-21MSD	2P96267.D	104	101	99	109
FC1200-25MS	1A42144.D	89	97	99	98
FC1200-25MSD	1A42145.D	88	97	98	97
FC1200-5MS	2P96313.D	112	113	94	106
FC1200-5MSD	2P96315.D	112	110	96	110
FC1239-2MS	I753636.D	106	108	94	97
FC1239-2MSD	I753637.D	107	108	93	99
V1A1697-BS	1A42121.D	99	100	99	100
V1A1697-MB	1A42123.D	100	97	99	100
V1A1698-BS	1A42151.D	88	98	100	98
V1A1698-MB	1A42153.D	89	96	101	98
V1P3644-BS	1P96226.D	105	100	98	103
V1P3644-MB	1P96230.D	102	96	99	106
V2P3657-BS	2P96227.D	103	97	97	107
V2P3657-MB	2P96231.D	103	99	98	107
V2P3658-BS	2P96275.D	104	99	96	107
V2P3658-MB	2P96279.D	103	98	95	107
VI2788-BS	I753617.D	106	109	93	99
VI2788-MB	I753619.D	106	102	93	103

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-118%
S2 = 1,2-Dichloroethane-D4	79-125%
S3 = Toluene-D8	85-112%
S4 = 4-Bromofluorobenzene	83-118%

(a) Outside DOD QSM control limits.

Initial Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1696-ICC1696
Lab FileID: 1A42110.D

Response Factor Report MSVOA17

Method : C:\msdchem\1\MET...V1A_12-12-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Calibration Files
1 =1A42106.D 2 =1A42107.D 3 =1A42108.D 4 =1A42109.D
5 =1A42110.D 6 =1A42111.D 7 =1A42112.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.354	0.431	0.318	0.368	0.356	0.300	0.330	0.351	12.08
3)P Chloromethane	0.430	0.404	0.289	0.308	0.324	0.283	0.279	0.331	18.48
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9969									
Response Ratio = 0.00000 + 0.33376 *A + -0.02915 *A^2									
4) 1,3-butadiene	0.226	0.269	0.261	0.243	0.255	0.207	0.205	0.238	10.80
5)C Vinyl Chloride	0.360	0.397	0.289	0.323	0.331	0.289	0.296	0.326	12.41
6) Bromomethane	0.312	0.282	0.208	0.206	0.210	0.175	0.169	0.223	24.05
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9967									
Response Ratio = 0.00000 + 0.23036 *A + -0.03290 *A^2									
7) Chloroethane	0.240	0.204	0.142	0.092	0.106	0.062	0.059	0.129	54.22
8) Trichlorofluorome	0.476	0.573	0.408	0.484	0.490	0.400	0.332	0.452	17.34
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9949									
Response Ratio = 0.00000 + 0.53623 *A + -0.09935 *A^2									
9) Ethyl Ether	0.222	0.263	0.224	0.214	0.251	0.232	0.225	0.233	7.48
10) Ethanol	0.006	0.005	0.005	0.004	0.004	0.004	0.005	11.06	
11) 1,2-Dichlorotrifl	0.378	0.398	0.366	0.332	0.384	0.339	0.346	0.363	6.83
12)C 1,1-Dichloroethen	0.405	0.472	0.430	0.397	0.469	0.418	0.420	0.430	6.84
13) Freon 113	0.270	0.320	0.315	0.291	0.334	0.284	0.305	0.302	7.36
14) Carbon Disulfide	0.938	0.943	0.853	0.762	0.896	0.799	0.791	0.855	8.55
15) Iodomethane	0.178	0.238	0.239	0.292	0.380	0.363	0.368	0.294	26.85
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9939									
Response Ratio = 0.00000 + 0.29480 *A + 0.04196 *A^2									
16) Acrolein	0.068	0.077	0.056	0.069	0.067	0.067	0.062	0.067	9.56
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9975									
Response Ratio = 0.00000 + 0.06919 *A + -0.00063 *A^2									
17) Allyl chloride	0.435	0.420	0.371	0.365	0.407	0.358	0.354	0.387	8.50
18) Methylene Chlorid	0.853	0.495	0.402	0.330	0.377	0.339	0.327	0.446	42.33
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9955									
Response Ratio = 0.00000 + 0.40294 *A + -0.04078 *A^2									
19) Acetone	0.161	0.115	0.118	0.093	0.099	0.097	0.092	0.111	22.15
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9979									
Response Ratio = 0.00000 + 0.10677 *A + -0.00152 *A^2									
20) Methyl acetate	0.235	0.259	0.227	0.218	0.261	0.246	0.243	0.241	6.61
21) trans-1,2-Dichlor	0.424	0.463	0.411	0.382	0.467	0.419	0.418	0.426	6.97
22) Hexane	0.264	0.260	0.249	0.225	0.257	0.220	0.234	0.244	7.27
23) Methyl Tert Butyl	0.858	0.946	0.842	0.802	0.975	0.901	0.883	0.887	6.74
24) Acetonitrile	0.046	0.053	0.049	0.044	0.051	0.043	0.045	0.047	7.83
25) Tert Butyl Alcoho	0.049	0.055	0.051	0.051	0.057	0.057	0.056	0.054	5.90

Initial Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1696-ICC1696
Lab FileID: 1A42110.D

26)	Di-isopropyl ethe	0.799	0.857	0.793	0.754	0.897	0.828	0.818	0.821	5.66
27)	Chloroprene	1.033	1.033	1.100	0.973	1.038	0.959	0.934	1.010	5.65
28)P	1,1-Dichloroethan	0.556	0.578	0.532	0.485	0.585	0.522	0.518	0.539	6.60
29)	Acrylonitrile	0.122	0.123	0.138	0.117	0.125	0.118	0.113	0.122	6.64
30)	ETBE	0.819	0.923	0.850	0.818	0.980	0.909	0.887	0.884	6.70
31)	Vinyl acetate	0.618	0.550	0.654	0.554	0.602	0.564	0.542	0.583	7.22
32)	cis-1,2-Dichloroe	0.373	0.381	0.323	0.298	0.360	0.325	0.320	0.340	9.15
33)	2,2-Dichloropropa	0.500	0.526	0.479	0.444	0.535	0.474	0.475	0.490	6.55
34)	Bromochloromethan	0.156	0.180	0.160	0.148	0.176	0.155	0.147	0.160	8.17
35)	Cyclohexane	0.480	0.527	0.488	0.453	0.504	0.437	0.458	0.478	6.58
36)C	Chloroform	0.616	0.647	0.575	0.531	0.628	0.565	0.564	0.589	7.06
37)	Ethyl acetate	0.305	0.304	0.363	0.314	0.338	0.328	0.320	0.325	6.45
38)	Tetrahydrofuran	0.155	0.128	0.107	0.101	0.116	0.113	0.109	0.119	15.37

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9979
Response Ratio = 0.00000 + 0.11305 *A + -0.00134 *A^2

39)S	Dibromofluorometh	0.328	0.324	0.320	0.317	0.318	0.321	0.319	0.321	1.25
40)	Carbon Tetrachlor	0.434	0.472	0.432	0.397	0.472	0.426	0.433	0.438	6.10
41)	1,1,1-Trichloroet	0.492	0.531	0.481	0.450	0.534	0.481	0.484	0.493	6.02
42)	2-Butanone	0.195	0.192	0.211	0.169	0.180	0.178	0.165	0.184	8.66
43)	1,1-Dichloroprope	0.401	0.460	0.416	0.395	0.470	0.417	0.419	0.426	6.73
44)	tert-Butyl format	0.219	0.268	0.197	0.273	0.270	0.272	0.255	0.251	12.11

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9963
Response Ratio = 0.00000 + 0.26271 *A + -0.00012 *A^2

45)	Propionitrile	0.056	0.060	0.052	0.052	0.054	0.050	0.048	0.053	7.47
46)	Methacrylonitrile	0.185	0.211	0.189	0.193	0.209	0.194	0.188	0.196	5.36
47)	Benzene	1.252	1.323	1.205	1.130	1.335	1.201	1.197	1.235	5.95
48)	TAME	0.802	0.883	0.817	0.784	0.939	0.875	0.858	0.851	6.32
49)S	1,2-Dichloroethan	0.333	0.335	0.331	0.331	0.336	0.317	0.319	0.329	2.37
50)	1,2-Dichloroethan	0.456	0.463	0.419	0.386	0.459	0.420	0.411	0.431	6.82
51)	Isobutyl Alcohol	0.014	0.021	0.019	0.014	0.014	0.016	0.017	0.017	14.91

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9934
Response Ratio = 0.00000 + 0.01481 *A + 0.00006 *A^2

52)	Tert Amyl Alcohol	0.040	0.044	0.042	0.042	0.047	0.045	0.045	0.044	4.96
53)	Trichloroethene	0.358	0.372	0.340	0.315	0.377	0.338	0.337	0.348	6.29
54)	Methylcyclohexane	0.484	0.539	0.531	0.499	0.558	0.481	0.511	0.515	5.64
55)	Dibromomethane	0.224	0.232	0.206	0.192	0.227	0.206	0.203	0.213	6.96
56)C	1,2-Dichloropropa	0.321	0.333	0.303	0.284	0.335	0.306	0.301	0.312	6.00
57)	Bromodichlorometh	0.417	0.446	0.399	0.369	0.450	0.408	0.404	0.413	6.74
58)	Methyl methacryla	0.250	0.303	0.265	0.269	0.302	0.283	0.278	0.278	6.96

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9985
Response Ratio = 0.00000 + 0.28694 *A + -0.00359 *A^2

59)	1,4-Dioxane	0.004	0.005	0.005	0.004	0.004	0.004	0.004	0.004	6.39
60)	2-Chloroethyl vin	0.201	0.228	0.171	0.226	0.223	0.223	0.207	0.211	9.60
61)	cis-1,3-Dichlorop	0.483	0.532	0.478	0.453	0.546	0.506	0.492	0.499	6.44
62) I	Chlorobenzene-d5	----------ISTD----------								
63)S	Toluene-d8	1.245	1.251	1.258	1.252	1.271	1.252	1.274	1.258	0.86
64)C	Toluene	1.815	1.821	1.619	1.500	1.792	1.604	1.606	1.680	7.62
65)	2-Nitropropane	0.100	0.116	0.103	0.101	0.125	0.119	0.117	0.112	9.05
66)	4-Methyl-2-pentan	0.518	0.497	0.529	0.416	0.449	0.437	0.415	0.466	10.32
67)	trans-1,3-Dichlor	0.533	0.558	0.513	0.495	0.598	0.548	0.535	0.540	6.10
68)	Tetrachloroethene	0.443	0.486	0.456	0.427	0.509	0.452	0.458	0.462	5.95
69)	Ethyl methacrylat	0.506	0.541	0.471	0.485	0.543	0.492	0.487	0.504	5.58
70)	1,1,2-Trichloroet	0.277	0.330	0.296	0.278	0.328	0.299	0.291	0.300	7.15
71)	Dibromochlorometh	0.371	0.424	0.375	0.365	0.443	0.412	0.406	0.400	7.48
72)	1,3-Dichloropropa	0.567	0.641	0.579	0.560	0.659	0.598	0.583	0.598	6.30

Initial Calibration Summary

Job Number: FC1200 **Sample:** V1A1696-ICC1696
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 1A42110.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

73)	1,2-Dibromoethane	0.378	0.419	0.375	0.359	0.429	0.391	0.384	0.391	6.40
74)	3,3-Dimethyl-1-Bu	0.060	0.064	0.050	0.063	0.059	0.061	0.062	0.060	7.69
75)	2-hexanone	0.502	0.467	0.470	0.411	0.415	0.406	0.392	0.438	9.50
76)	1-Chlorohexane	0.638	0.590	0.542	0.494	0.565	0.495	0.507	0.547	9.90
77)C	Ethylbenzene	1.863	1.923	1.755	1.621	1.944	1.709	1.715	1.790	6.80
78)P	Chlorobenzene	1.032	1.143	1.052	0.971	1.147	1.028	1.029	1.058	6.13
79)	1,1,1,2-Tetrachlo	0.333	0.403	0.363	0.352	0.423	0.384	0.382	0.377	8.13
80)	m,p-Xylene	1.459	1.536	1.372	1.277	1.524	1.347	1.350	1.409	6.98
81)	o-Xylene	1.569	1.581	1.398	1.305	1.565	1.391	1.381	1.456	7.75
82)	Styrene	1.082	1.238	1.092	1.035	1.228	1.101	1.084	1.123	6.98
83)P	Bromoform	0.257	0.279	0.246	0.246	0.298	0.279	0.276	0.269	7.34
84)	Isopropylbenzene	1.718	1.881	1.684	1.575	1.872	1.651	1.631	1.716	6.89
85) I	1,4-Dichlorobenzene-d	----------	ISTD	----------						
86)S	4-Bromofluorobenz	0.837	0.835	0.842	0.854	0.848	0.866	0.880	0.852	1.93
87)	cis-1,4-Dichloro-		0.315	0.285	0.296	0.330	0.312	0.313	0.309	5.10
88)	n-Propylbenzene	3.936	4.094	3.773	3.573	4.219	3.812	3.845	3.893	5.49
89)	Bromobenzene	0.818	0.921	0.840	0.804	0.949	0.889	0.880	0.871	6.15
90)P	1,1,2,2-Tetrachlo	0.966	1.014	0.901	0.882	1.044	0.984	0.957	0.964	5.99
91)	1,3,5-Trimethylbe	2.822	3.004	2.703	2.607	3.106	2.812	2.785	2.834	6.02
92)	2-Chlorotoluene	2.375	2.414	2.138	2.041	2.430	2.212	2.231	2.263	6.55
93)	trans-1,4-Dichlor		0.345	0.325	0.321	0.358	0.340	0.340	0.338	4.01
94)	1,2,3-Trichloropr	0.283	0.307	0.271	0.272	0.316	0.297	0.292	0.291	5.86
95)	Cyclohexanone	0.075	0.057	0.055	0.037	0.035	0.037	0.036	0.047	32.28
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9969									
	Response Ratio = 0.00000 + 0.03789 *A + -0.00017 *A^2									
96)	4-Chlorotoluene	2.503	2.481	2.274	2.134	2.542	2.299	2.317	2.364	6.28
97)	tert-Butylbenzene	1.763	1.671	1.539	1.444	1.724	1.547	1.535	1.603	7.29
98)	1,2,4-Trimethylbe	2.614	2.846	2.652	2.496	2.978	2.687	2.697	2.710	5.83
99)	Pentachloroethane	0.362	0.454	0.408	0.458	0.507	0.483	0.480	0.450	11.03
100)	sec-Butylbenzene	3.319	3.529	3.270	3.080	3.614	3.244	3.257	3.330	5.47
101)	4-Isopropyltoluen	2.872	3.154	2.897	2.732	3.192	2.866	2.847	2.937	5.78
102)	1,3-Dichlorobenze	1.621	1.674	1.503	1.421	1.690	1.543	1.533	1.570	6.18
103)	1,2,3-Trimethylbe	2.538	2.741	2.513	2.431	2.835	2.609	2.598	2.609	5.29
104)	1,4-Dichlorobenze	1.714	1.724	1.555	1.459	1.716	1.561	1.545	1.611	6.59
105)	n-Butylbenzene	1.420	1.572	1.470	1.405	1.606	1.443	1.434	1.478	5.33
106)	Benzyl Chloride	0.333	0.390	0.339	0.343	0.427	0.399	0.400	0.376	9.82
107)	1,2-Dichlorobenze	1.515	1.584	1.404	1.330	1.554	1.421	1.417	1.461	6.28
108)	1,2-Dibromo-3-Chl	0.170	0.197	0.179	0.176	0.201	0.192	0.199	0.188	6.59
109)	Hexachlorobutadie	0.489	0.551	0.557	0.520	0.576	0.541	0.560	0.542	5.36
110)	1,2,4-Trichlorobe	0.959	1.075	0.995	0.921	1.086	1.027	1.027	1.013	5.87
111)	Naphthalene	2.807	2.950	2.664	2.488	2.942	2.812	2.801	2.781	5.80
112)	1,2,3-Trichlorobe	0.938	1.005	0.914	0.870	1.032	0.977	0.964	0.957	5.74

(#) = Out of Range

V1A_12-12-2022.M Tue Dec 13 09:40:22 2022

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1696-ICV1696
Lab FileID: 1A42114.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\12-12-2022\1A42114.D Vial: 10
Acq On : 12 Dec 2022 3:56 pm Operator: joannel
Sample : ICV1696-5 Inst : MSVOA17
Misc : MS52217,V1A1696,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V1A_12-12-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Tue Dec 13 09:29:27 2022
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00	3.65
2	Dichlorodifluoromethane	0.351	0.322	8.3	90	0.00	1.03
		Amount	Calc.	%Drift			
3 P	Chloromethane	40.000	34.947	12.6	84	0.00	1.16
		AvgRF	CCRF	%Dev			
4	1,3-butadiene	0.238	0.261	-9.7	102	0.00	1.22
5 C	Vinyl Chloride	0.326	0.306	6.1	92	0.00	1.21
		Amount	Calc.	%Drift			
6	Bromomethane	40.000	32.796	18.0	81	0.00	1.41
		AvgRF	CCRF	%Dev			
7	Chloroethane	0.129	0.072	44.2#	68	0.00	1.48
		Amount	Calc.	%Drift			
8	Trichlorofluoromethane	40.000	42.635	-6.6	98	0.00	1.57
		AvgRF	CCRF	%Dev			
9	Ethyl Ether	0.233	0.214	8.2	85	0.00	1.77
10	Ethanol	0.005	0.004	20.0	95	0.00	1.85
11	1,2-Dichlorotrifluoroetha	0.363	0.344	5.2	89	0.00	1.87
12 C	1,1-Dichloroethene	0.430	0.397	7.7	84	0.00	1.87
13	Freon 113	0.302	0.305	-1.0	91	0.00	1.91
14	Carbon Disulfide	0.855	0.809	5.4	90	0.00	1.90
		Amount	Calc.	%Drift			
15	Iodomethane	40.000	41.424	-3.6	89	0.00	1.96
16	Acrolein	200.000	154.926	22.5#	77	0.00	2.05
		AvgRF	CCRF	%Dev			
17	Allyl chloride	0.387	0.365	5.7	89	0.00	2.14
		Amount	Calc.	%Drift			
18	Methylene Chloride	40.000	34.831	12.9	86	0.00	2.20
19	Acetone	200.000	172.841	13.6	89	0.00	2.21
		AvgRF	CCRF	%Dev			
20	Methyl acetate	0.241	0.248	-2.9	94	0.00	2.30
21	trans-1,2-Dichloroethene	0.426	0.388	8.9	83	0.00	2.30
22	Hexane	0.244	0.261	-7.0	101	0.00	2.37

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1696-ICV1696
Lab FileID: 1A42114.D

23		Methyl Tert Butyl Ether	0.887	0.859	3.2	88	0.00	2.37
24		Acetonitrile	0.047	0.047	0.0	91	0.00	2.37
25		Tert Butyl Alcohol	0.054	0.056	-3.7	99	0.00	2.40
26		Di-isopropyl ether	0.821	0.826	-0.6	92	0.00	2.59
27		Chloroprene	1.010	1.057	-4.7	101	0.00	2.63
28	P	1,1-Dichloroethane	0.539	0.521	3.3	89	0.00	2.63
29		Acrylonitrile	0.122	0.127	-4.1	101	0.00	2.63
30		ETBE	0.884	0.874	1.1	89	0.00	2.79
31		Vinyl acetate	0.583	0.655	-12.3	108	0.00	2.77
32		cis-1,2-Dichloroethene	0.340	0.323	5.0	89	0.00	2.94
33		2,2-Dichloropropane	0.490	0.439	10.4	82	0.00	3.00
34		Bromochloromethane	0.160	0.159	0.6	90	0.00	3.04
35		Cyclohexane	0.478	0.494	-3.3	98	0.00	3.07
36	C	Chloroform	0.589	0.558	5.3	89	0.00	3.08
37		Ethyl acetate	0.325	0.349	-7.4	103	0.00	3.14
			Amount	Calc.	%Drift			
38		Tetrahydrofuran	40.000	40.525	-1.3	97	0.00	3.17
			AvgRF	CCRF	%Dev			
39	S	Dibromofluoromethane	0.321	0.319	0.6	100	0.00	3.18
40		Carbon Tetrachloride	0.438	0.422	3.7	89	0.00	3.18
41		1,1,1-Trichloroethane	0.493	0.473	4.1	88	0.00	3.21
42		2-Butanone	0.184	0.158	14.1	87	0.00	3.24
43		1,1-Dichloropropene	0.426	0.406	4.7	86	0.00	3.28
			Amount	Calc.	%Drift			
44		tert-Butyl formate	200.000	141.517	29.2#	68	0.00	3.33
			AvgRF	CCRF	%Dev			
45		Propionitrile	0.053	0.049	7.5	91	0.00	3.38
46		Methacrylonitrile	0.196	0.189	3.6	90	0.00	3.40
47		Benzene	1.235	1.168	5.4	87	0.00	3.42
48		TAME	0.851	0.854	-0.4	91	0.00	3.50
49	S	1,2-Dichloroethane-d4	0.329	0.335	-1.8	99	0.00	3.47
50		1,2-Dichloroethane	0.431	0.406	5.8	88	0.00	3.51
			Amount	Calc.	%Drift			
51		Isobutyl Alcohol	800.000	718.999	10.1	97	0.00	3.51
			AvgRF	CCRF	%Dev			
52		Tert Amyl Alcohol	0.044	0.045	-2.3	97	0.00	3.57
53		Trichloroethene	0.348	0.334	4.0	88	0.00	3.76
54		Methylcyclohexane	0.515	0.561	-8.9	100	0.00	3.77
55		Dibromomethane	0.213	0.200	6.1	88	0.00	3.99
56	C	1,2-Dichloropropane	0.312	0.286	8.3	85	0.00	4.05
57		Bromodichloromethane	0.413	0.404	2.2	90	0.00	4.09
			Amount	Calc.	%Drift			
58		Methyl methacrylate	40.000	40.854	-2.1	96	0.00	4.18
			AvgRF	CCRF	%Dev			
59		1,4-Dioxane	0.004	0.005	-25.0#	109	0.00	4.20
60		2-Chloroethyl vinyl ether	0.211	0.208	1.4	93	0.00	4.44
61		cis-1,3-Dichloropropene	0.499	0.487	2.4	89	0.00	4.47
62	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00	5.64
63	S	Toluene-d8	1.258	1.256	0.2	100	0.00	4.61
64	C	Toluene	1.680	1.560	7.1	88	0.00	4.64
65		2-Nitropropane	0.112	0.110	1.8	89	0.00	4.74

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1696-ICV1696
Lab FileID: 1A42114.D

66		4-Methyl-2-pentanone	0.466	0.376	19.3	85	0.00	4.86
67		trans-1,3-Dichloropropene	0.540	0.551	-2.0	93	0.00	4.89
68		Tetrachloroethene	0.462	0.459	0.6	91	0.00	4.91
69		Ethyl methacrylate	0.504	0.453	10.1	84	0.00	5.01
70		1,1,2-Trichloroethane	0.300	0.291	3.0	90	0.00	4.99
71		Dibromochloromethane	0.400	0.380	5.0	87	0.00	5.11
72		1,3-Dichloropropane	0.598	0.546	8.7	84	0.00	5.17
73		1,2-Dibromoethane	0.391	0.378	3.3	89	0.00	5.27
74		3,3-Dimethyl-1-Butanol	0.060	0.053	11.7	92	0.00	5.41
75		2-hexanone	0.438	0.356	18.7	87	0.00	5.42
76		1-Chlorohexane	0.547	0.545	0.4	98	0.00	5.64
77	C	Ethylbenzene	1.790	1.678	6.3	87	0.00	5.67
78	P	Chlorobenzene	1.058	1.027	2.9	91	0.00	5.64
79		1,1,1,2-Tetrachloroethane	0.377	0.378	-0.3	90	0.00	5.69
80		m,p-Xylene	1.409	1.340	4.9	89	0.00	5.78
81		o-Xylene	1.456	1.407	3.4	91	0.00	6.08
82		Styrene	1.123	1.089	3.0	90	0.00	6.12
83	P	Bromoform	0.269	0.271	-0.7	92	0.00	6.12
84		Isopropylbenzene	1.716	1.678	2.2	91	0.00	6.33
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	7.38
86	S	4-Bromofluorobenzene	0.852	0.862	-1.2	102	0.00	6.51
87		cis-1,4-Dichloro-2-butene	0.309	0.276	10.7	84	0.00	6.55
88		n-Propylbenzene	3.893	3.797	2.5	90	0.00	6.64
89		Bromobenzene	0.871	0.823	5.5	87	0.00	6.59
90	P	1,1,2,2-Tetrachloroethane	0.964	0.952	1.2	91	0.00	6.66
91		1,3,5-Trimethylbenzene	2.834	2.719	4.1	88	0.00	6.79
92		2-Chlorotoluene	2.263	2.194	3.0	90	0.00	6.74
93		trans-1,4-Dichloro-2-Bute	0.338	0.349	-3.3	97	0.00	6.79
94		1,2,3-Trichloropropane	0.291	0.273	6.2	87	0.00	6.75
			Amount	Calc.	%Drift			
95		Cyclohexanone	200.000	200.626	-0.3	106	0.00	6.77
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	2.364	2.287	3.3	90	0.00	6.87
97		tert-Butylbenzene	1.603	1.552	3.2	90	0.00	7.04
98		1,2,4-Trimethylbenzene	2.710	2.702	0.3	91	0.00	7.09
99		Pentachloroethane	0.450	0.468	-4.0	92	0.00	7.04
100		sec-Butylbenzene	3.330	3.438	-3.2	95	0.00	7.18
101		4-Isopropyltoluene	2.937	3.059	-4.2	96	0.00	7.30
102		1,3-Dichlorobenzene	1.570	1.560	0.6	92	0.00	7.32
103		1,2,3-Trimethylbenzene	2.609	2.780	-6.6	98	0.00	7.43
104		1,4-Dichlorobenzene	1.611	1.559	3.2	91	0.00	7.39
105		n-Butylbenzene	1.478	1.408	4.7	88	0.00	7.63
106		Benzyl Chloride	0.376	0.381	-1.3	89	0.00	7.58
107		1,2-Dichlorobenzene	1.461	1.427	2.3	92	0.00	7.71
108		1,2-Dibromo-3-Chloropropa	0.188	0.177	5.9	88	0.00	8.29
109		Hexachlorobutadiene	0.542	0.530	2.2	92	0.00	8.80
110		1,2,4-Trichlorobenzene	1.013	0.996	1.7	92	0.00	8.79
111		Naphthalene	2.781	2.697	3.0	92	0.00	9.00
112		1,2,3-Trichlorobenzene	0.957	0.925	3.3	90	0.00	9.13

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

1A42110.D V1A_12-12-2022.M Tue Dec 13 09:39:58 2022

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1697-CC1696
Lab FileID: 1A42120.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\12-13-2022\1A42120.D Vial: 2
Acq On : 13 Dec 2022 9:27 am Operator: joannel
Sample : CC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1697,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V1A_12-12-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Tue Dec 13 09:29:27 2022
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00	3.65
2	Dichlorodifluoromethane	0.351	0.321	8.5	90	0.00	1.03
		Amount	Calc.	%Drift			
3 P	Chloromethane	40.000	33.936	15.2	82	0.00	1.16
		AvgRF	CCRF	%Dev			
4	1,3-butadiene	0.238	0.224	5.9	88	0.00	1.22
5 C	Vinyl Chloride	0.326	0.288	11.7	87	0.00	1.21
		Amount	Calc.	%Drift			
6	Bromomethane	40.000	37.279	6.8	91	0.00	1.41
		AvgRF	CCRF	%Dev			
7	Chloroethane	0.129	0.083	35.7#	78	0.00	1.48
		Amount	Calc.	%Drift			
8	Trichlorofluoromethane	40.000	38.243	4.4	90	0.00	1.57
		AvgRF	CCRF	%Dev			
9	Ethyl Ether	0.233	0.224	3.9	89	0.00	1.77
10	Ethanol	0.005	0.004	20.0	97	0.00	1.85
11	1,2-Dichlorotrifluoroetha	0.363	0.345	5.0	90	0.00	1.87
12 C	1,1-Dichloroethene	0.430	0.416	3.3	89	0.00	1.88
13	Freon 113	0.302	0.316	-4.6	95	0.00	1.91
14	Carbon Disulfide	0.855	0.795	7.0	89	0.00	1.90
		Amount	Calc.	%Drift			
15	Iodomethane	40.000	43.966	-9.9	96	0.00	1.96
16	Acrolein	200.000	195.055	2.5	97	0.00	2.05
		AvgRF	CCRF	%Dev			
17	Allyl chloride	0.387	0.359	7.2	88	0.00	2.14
		Amount	Calc.	%Drift			
18	Methylene Chloride	40.000	35.726	10.7	88	0.00	2.20
19	Acetone	200.000	181.386	9.3	93	0.00	2.21
		AvgRF	CCRF	%Dev			
20	Methyl acetate	0.241	0.236	2.1	90	0.00	2.30
21	trans-1,2-Dichloroethene	0.426	0.412	3.3	88	0.00	2.30
22	Hexane	0.244	0.261	-7.0	101	0.00	2.37

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1697-CC1696
Lab FileID: 1A42120.D

23		Methyl Tert Butyl Ether	0.887	0.874	1.5	90	0.00	2.37
24		Acetonitrile	0.047	0.047	0.0	91	0.00	2.37
25		Tert Butyl Alcohol	0.054	0.056	-3.7	98	0.00	2.40
26		Di-isopropyl ether	0.821	0.812	1.1	90	0.00	2.59
27		Chloroprene	1.010	0.953	5.6	92	0.00	2.63
28	P	1,1-Dichloroethane	0.539	0.523	3.0	89	0.00	2.63
29		Acrylonitrile	0.122	0.115	5.7	92	0.00	2.63
30		ETBE	0.884	0.891	-0.8	91	0.00	2.79
31		Vinyl acetate	0.583	0.545	6.5	90	0.00	2.77
32		cis-1,2-Dichloroethene	0.340	0.324	4.7	90	0.00	2.94
33		2,2-Dichloropropane	0.490	0.476	2.9	89	0.00	3.00
34		Bromochloromethane	0.160	0.157	1.9	89	0.00	3.04
35		Cyclohexane	0.478	0.469	1.9	93	0.00	3.07
36	C	Chloroform	0.589	0.571	3.1	91	0.00	3.08
37		Ethyl acetate	0.325	0.315	3.1	93	0.00	3.14
			Amount	Calc.	%Drift			
38		Tetrahydrofuran	40.000	40.032	-0.1	96	0.00	3.17
			AvgRF	CCRF	%Dev			
39	S	Dibromofluoromethane	0.321	0.316	1.6	99	0.00	3.18
40		Carbon Tetrachloride	0.438	0.430	1.8	91	0.00	3.18
41		1,1,1-Trichloroethane	0.493	0.486	1.4	91	0.00	3.21
42		2-Butanone	0.184	0.166	9.8	92	0.00	3.24
43		1,1-Dichloropropene	0.426	0.419	1.6	89	0.00	3.28
			Amount	Calc.	%Drift			
44		tert-Butyl formate	200.000	200.396	-0.2	97	0.00	3.33
			AvgRF	CCRF	%Dev			
45		Propionitrile	0.053	0.050	5.7	93	0.00	3.38
46		Methacrylonitrile	0.196	0.190	3.1	91	0.00	3.40
47		Benzene	1.235	1.223	1.0	92	0.00	3.42
48		TAME	0.851	0.857	-0.7	91	0.00	3.50
49	S	1,2-Dichloroethane-d4	0.329	0.327	0.6	97	0.00	3.47
50		1,2-Dichloroethane	0.431	0.420	2.6	91	0.00	3.51
			Amount	Calc.	%Drift			
51		Isobutyl Alcohol	800.000	738.008	7.7	100	0.00	3.51
			AvgRF	CCRF	%Dev			
52		Tert Amyl Alcohol	0.044	0.045	-2.3	97	0.00	3.57
53		Trichloroethene	0.348	0.341	2.0	90	0.00	3.76
54		Methylcyclohexane	0.515	0.531	-3.1	95	0.00	3.77
55		Dibromomethane	0.213	0.207	2.8	91	0.00	3.99
56	C	1,2-Dichloropropane	0.312	0.301	3.5	90	0.00	4.05
57		Bromodichloromethane	0.413	0.409	1.0	91	0.00	4.09
			Amount	Calc.	%Drift			
58		Methyl methacrylate	40.000	38.359	4.1	90	0.00	4.18
			AvgRF	CCRF	%Dev			
59		1,4-Dioxane	0.004	0.004	0.0	102	0.00	4.20
60		2-Chloroethyl vinyl ether	0.211	0.213	-0.9	95	0.00	4.44
61		cis-1,3-Dichloropropene	0.499	0.500	-0.2	91	0.00	4.47
62	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00	5.64
63	S	Toluene-d8	1.258	1.250	0.6	99	0.00	4.61
64	C	Toluene	1.680	1.609	4.2	91	0.00	4.64
65		2-Nitropropane	0.112	0.114	-1.8	92	0.00	4.74

Continuing Calibration Summary

Job Number: FC1200 **Sample:** V1A1697-CC1696
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 1A42120.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

66		4-Methyl-2-pentanone	0.466	0.410	12.0	92	0.00	4.86
67		trans-1,3-Dichloropropene	0.540	0.537	0.6	91	0.00	4.89
68		Tetrachloroethene	0.462	0.468	-1.3	93	0.00	4.91
69		Ethyl methacrylate	0.504	0.484	4.0	90	0.00	5.01
70		1,1,2-Trichloroethane	0.300	0.298	0.7	92	0.00	4.99
71		Dibromochloromethane	0.400	0.409	-2.2	93	0.00	5.12
72		1,3-Dichloropropane	0.598	0.588	1.7	90	0.00	5.17
73		1,2-Dibromoethane	0.391	0.388	0.8	91	0.00	5.27
74		3,3-Dimethyl-1-Butanol	0.060	0.058	3.3	99	0.00	5.41
75		2-hexanone	0.438	0.390	11.0	95	0.00	5.42
76		1-Chlorohexane	0.547	0.531	2.9	95	0.00	5.64
77	C	Ethylbenzene	1.790	1.750	2.2	91	0.00	5.67
78	P	Chlorobenzene	1.058	1.052	0.6	92	0.00	5.64
79		1,1,1,2-Tetrachloroethane	0.377	0.389	-3.2	93	0.00	5.69
80		m,p-Xylene	1.409	1.391	1.3	92	0.00	5.78
81		o-Xylene	1.456	1.411	3.1	91	0.00	6.08
82		Styrene	1.123	1.118	0.4	92	0.00	6.12
83	P	Bromoform	0.269	0.282	-4.8	95	0.00	6.12
84		Isopropylbenzene	1.716	1.710	0.3	92	0.00	6.33
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	7.38
86	S	4-Bromofluorobenzene	0.852	0.858	-0.7	102	0.00	6.51
87		cis-1,4-Dichloro-2-butene	0.309	0.299	3.2	91	0.00	6.55
88		n-Propylbenzene	3.893	3.835	1.5	92	0.00	6.64
89		Bromobenzene	0.871	0.891	-2.3	95	0.00	6.59
90	P	1,1,2,2-Tetrachloroethane	0.964	0.960	0.4	93	0.00	6.66
91		1,3,5-Trimethylbenzene	2.834	2.802	1.1	91	0.00	6.79
92		2-Chlorotoluene	2.263	2.211	2.3	92	0.00	6.74
93		trans-1,4-Dichloro-2-Bute	0.338	0.328	3.0	92	0.00	6.79
94		1,2,3-Trichloropropane	0.291	0.291	0.0	93	0.00	6.75
			Amount	Calc.	%Drift			
95		Cyclohexanone	200.000	199.559	0.2	106	0.00	6.77
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	2.364	2.318	1.9	92	0.00	6.87
97		tert-Butylbenzene	1.603	1.560	2.7	91	0.00	7.04
98		1,2,4-Trimethylbenzene	2.710	2.719	-0.3	92	0.00	7.09
99		Pentachloroethane	0.450	0.466	-3.6	93	0.00	7.04
100		sec-Butylbenzene	3.330	3.326	0.1	93	0.00	7.18
101		4-Isopropyltoluene	2.937	2.954	-0.6	93	0.00	7.30
102		1,3-Dichlorobenzene	1.570	1.564	0.4	93	0.00	7.32
103		1,2,3-Trimethylbenzene	2.609	2.608	0.0	93	0.00	7.43
104		1,4-Dichlorobenzene	1.611	1.600	0.7	94	0.00	7.39
105		n-Butylbenzene	1.478	1.480	-0.1	93	0.00	7.63
106		Benzyl Chloride	0.376	0.388	-3.2	92	0.00	7.58
107		1,2-Dichlorobenzene	1.461	1.452	0.6	94	0.00	7.71
108		1,2-Dibromo-3-Chloropropa	0.188	0.188	0.0	95	0.00	8.30
109		Hexachlorobutadiene	0.542	0.546	-0.7	95	0.00	8.80
110		1,2,4-Trichlorobenzene	1.013	1.021	-0.8	95	0.00	8.79
111		Naphthalene	2.781	2.705	2.7	93	0.00	9.00
112		1,2,3-Trichlorobenzene	0.957	0.949	0.8	93	0.00	9.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1A42110.D V1A_12-12-2022.M Tue Dec 13 09:44:37 2022

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1697-ECC1696
Lab FileID: 1A42146.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ce...022\V1A1697\1A42146.d Vial: 28
Acq On : 13 Dec 2022 7:46 pm Operator: joannel
Sample : ECC1696-5 Inst : MSVOA17
Misc : MS53004,V1A1697,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\met...V1A_12-12-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Tue Dec 13 09:29:27 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Fluorobenzene	1.000	1.000	0.0	99	0.00	3.65
2	Dichlorodifluoromethane	0.351	0.273	22.2	76	0.00	1.03
	----------	True	Calc.	% Drift	----------		
3 P	Chloromethane	40.000	28.066	29.8	68	0.00	1.16
	----------	AvgRF	CCRF	% Dev	----------		
4	1,3-butadiene	0.238	0.199	16.4	77	0.00	1.23
5 C	Vinyl Chloride	0.326	0.242	25.8#	72	0.00	1.21
	----------	True	Calc.	% Drift	----------		
6	Bromomethane	40.000	30.552	23.6	76	0.00	1.41
	----------	AvgRF	CCRF	% Dev	----------		
7	Chloroethane	0.129	0.067	48.1	63	0.00	1.48
	----------	True	Calc.	% Drift	----------		
8	Trichlorofluoromethane	40.000	32.814	18.0	78	0.00	1.57
	----------	AvgRF	CCRF	% Dev	----------		
9	Ethyl Ether	0.233	0.200	14.2	79	0.00	1.77
10	Ethanol	0.005	0.004	20.0	87	0.00	1.85
11	1,2-Dichlorotrifluoroetha	0.363	0.288	20.7	74	0.00	1.87
12 C	1,1-Dichloroethene	0.430	0.345	19.8	73	0.00	1.88
13	Freon 113	0.302	0.263	12.9	78	0.00	1.91
14	Carbon Disulfide	0.855	0.655	23.4	72	0.00	1.90
	----------	True	Calc.	% Drift	----------		
15	Iodomethane	40.000	41.086	-2.7	88	0.00	1.96
16	Acrolein	200.000	164.530	17.7	81	0.00	2.05
	----------	AvgRF	CCRF	% Dev	----------		
17	Allyl chloride	0.387	0.289	25.3	70	0.00	2.14
	----------	True	Calc.	% Drift	----------		
18	Methylene Chloride	40.000	31.320	21.7	77	0.00	2.20
19	Acetone	200.000	168.866	15.6	86	0.00	2.21
	----------	AvgRF	CCRF	% Dev	----------		
20	Methyl acetate	0.241	0.211	12.4	80	0.00	2.30
21	trans-1,2-Dichloroethene	0.426	0.345	19.0	73	0.00	2.30
22	Hexane	0.244	0.200	18.0	77	0.00	2.37

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1697-ECC1696
Lab FileID: 1A42146.D

23		Methyl Tert Butyl Ether	0.887	0.783	11.7	79	0.00	2.37
24		Acetonitrile	0.047	0.038	19.1	73	0.00	2.37
25		Tert Butyl Alcohol	0.054	0.049	9.3	85	0.00	2.40
26		Di-isopropyl ether	0.821	0.705	14.1	78	0.00	2.59
27		Chloroprene	1.010	0.830	17.8	79	0.00	2.63
28	P	1,1-Dichloroethane	0.539	0.443	17.8	75	0.00	2.63
29		Acrylonitrile	0.122	0.103	15.6	81	0.00	2.63
30		ETBE	0.884	0.788	10.9	79	0.00	2.79
31		Vinyl acetate	0.583	0.476	18.4	78	0.00	2.77
32		cis-1,2-Dichloroethene	0.340	0.285	16.2	78	0.00	2.94
33		2,2-Dichloropropane	0.490	0.363	25.9	67	0.00	3.00
34		Bromochloromethane	0.160	0.147	8.1	83	0.00	3.04
35		Cyclohexane	0.478	0.385	19.5	76	0.00	3.07
36	C	Chloroform	0.589	0.495	16.0	78	0.00	3.08
37		Ethyl acetate	0.325	0.281	13.5	82	0.00	3.14
			True	Calc.	% Drift			
38		Tetrahydrofuran	40.000	34.790	13.0	83	0.00	3.17
			AvgRF	CCRF	% Dev			
39	S	Dibromofluoromethane	0.321	0.287	10.6	89	0.00	3.18
40		Carbon Tetrachloride	0.438	0.353	19.4	74	0.00	3.18
41		1,1,1-Trichloroethane	0.493	0.413	16.2	76	0.00	3.21
42		2-Butanone	0.184	0.148	19.6	81	0.00	3.24
43		1,1-Dichloropropene	0.426	0.351	17.6	74	0.00	3.28
			True	Calc.	% Drift			
44		tert-Butyl formate	200.000	165.196	17.4	79	0.00	3.33
			AvgRF	CCRF	% Dev			
45		Propionitrile	0.053	0.046	13.2	83	0.00	3.38
46		Methacrylonitrile	0.196	0.172	12.2	81	0.00	3.40
47		Benzene	1.235	1.057	14.4	78	0.00	3.42
48		TAME	0.851	0.763	10.3	80	0.00	3.50
49	S	1,2-Dichloroethane-d4	0.329	0.326	0.9	96	0.00	3.47
50		1,2-Dichloroethane	0.431	0.375	13.0	81	0.00	3.51
			True	Calc.	% Drift			
51		Isobutyl Alcohol	800.000	710.812	11.1	95	0.00	3.51
			AvgRF	CCRF	% Dev			
52		Tert Amyl Alcohol	0.044	0.039	11.4	84	0.00	3.57
53		Trichloroethene	0.348	0.291	16.4	76	0.00	3.76
54		Methylcyclohexane	0.515	0.443	14.0	78	0.00	3.77
55		Dibromomethane	0.213	0.189	11.3	82	0.00	3.99
56	C	1,2-Dichloropropane	0.312	0.264	15.4	78	0.00	4.05
57		Bromodichloromethane	0.413	0.350	15.3	77	0.00	4.09
			True	Calc.	% Drift			
58		Methyl methacrylate	40.000	33.071	17.3	77	0.00	4.18
			AvgRF	CCRF	% Dev			
59		1,4-Dioxane	0.004	0.004	0.0	94	0.00	4.20
60		2-Chloroethyl vinyl ether	0.211	0.188	10.9	83	0.00	4.44
61		cis-1,3-Dichloropropene	0.499	0.423	15.2	77	0.00	4.47
62	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00	5.64
63	S	Toluene-d8	1.258	1.237	1.7	96	0.00	4.61
64	C	Toluene	1.680	1.403	16.5	77	0.00	4.64
65		2-Nitropropane	0.112	0.094	16.1	74	0.00	4.74

Continuing Calibration Summary

Job Number: FC1200 **Sample:** V1A1697-ECC1696
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 1A42146.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

66		4-Methyl-2-pentanone	0.466	0.375	19.5	82	0.00	4.86
67		trans-1,3-Dichloropropene	0.540	0.468	13.3	77	0.00	4.89
68		Tetrachloroethene	0.462	0.426	7.8	82	0.00	4.91
69		Ethyl methacrylate	0.504	0.434	13.9	79	0.00	5.01
70		1,1,2-Trichloroethane	0.300	0.270	10.0	81	0.00	4.99
71		Dibromochloromethane	0.400	0.360	10.0	80	0.00	5.12
72		1,3-Dichloropropane	0.598	0.537	10.2	80	0.00	5.17
73		1,2-Dibromoethane	0.391	0.357	8.7	82	0.00	5.27
74		3,3-Dimethyl-1-Butanol	0.060	0.053	11.7	89	0.00	5.41
75		2-hexanone	0.438	0.361	17.6	86	0.00	5.42
76		1-Chlorohexane	0.547	0.447	18.3	78	0.00	5.64
77	C	Ethylbenzene	1.790	1.511	15.6	77	0.00	5.67
78	P	Chlorobenzene	1.058	0.936	11.5	80	0.00	5.64
79		1,1,1,2-Tetrachloroethane	0.377	0.346	8.2	80	0.00	5.69
80		m,p-Xylene	1.409	1.198	15.0	77	0.00	5.78
81		o-Xylene	1.456	1.236	15.1	78	0.00	6.08
82		Styrene	1.123	0.990	11.8	79	0.00	6.12
83	P	Bromoform	0.269	0.241	10.4	80	0.00	6.12
84		Isopropylbenzene	1.716	1.465	14.6	77	0.00	6.33
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00	7.38
86	S	4-Bromofluorobenzene	0.852	0.839	1.5	98	0.00	6.51
87		cis-1,4-Dichloro-2-butene	0.309	0.218	29.4	66	0.00	6.55
88		n-Propylbenzene	3.893	3.275	15.9	77	0.00	6.64
89		Bromobenzene	0.871	0.791	9.2	83	0.00	6.59
90	P	1,1,2,2-Tetrachloroethane	0.964	0.863	10.5	82	0.00	6.66
91		1,3,5-Trimethylbenzene	2.834	2.432	14.2	78	0.00	6.79
92		2-Chlorotoluene	2.263	1.907	15.7	78	0.00	6.74
93		trans-1,4-Dichloro-2-Bute	0.338	0.267	21.0	74	0.00	6.79
94		1,2,3-Trichloropropane	0.291	0.266	8.6	84	0.00	6.75
			True	Calc.	% Drift			
95		Cyclohexanone	200.000	170.747	14.6	90	0.00	6.77
			AvgRF	CCRF	% Dev			
96		4-Chlorotoluene	2.364	2.012	14.9	79	0.00	6.87
97		tert-Butylbenzene	1.603	1.332	16.9	77	0.00	7.04
98		1,2,4-Trimethylbenzene	2.710	2.368	12.6	79	0.00	7.09
99		Pentachloroethane	0.450	0.372	17.3	73	0.00	7.04
100		sec-Butylbenzene	3.330	2.842	14.7	78	0.00	7.18
101		4-Isopropyltoluene	2.937	2.541	13.5	79	0.00	7.30
102		1,3-Dichlorobenzene	1.570	1.398	11.0	82	0.00	7.32
103		1,2,3-Trimethylbenzene	2.609	2.317	11.2	81	0.00	7.43
104		1,4-Dichlorobenzene	1.611	1.421	11.8	82	0.00	7.39
105		n-Butylbenzene	1.478	1.253	15.2	77	0.00	7.63
106		Benzyl Chloride	0.376	0.277	26.3	65	0.00	7.58
107		1,2-Dichlorobenzene	1.461	1.323	9.4	85	0.00	7.71
108		1,2-Dibromo-3-Chloropropa	0.188	0.165	12.2	82	0.00	8.30
109		Hexachlorobutadiene	0.542	0.478	11.8	82	0.00	8.80
110		1,2,4-Trichlorobenzene	1.013	0.918	9.4	84	0.00	8.79
111		Naphthalene	2.781	2.464	11.4	83	0.00	9.00
112		1,2,3-Trichlorobenzene	0.957	0.866	9.5	83	0.00	9.13

(#) = Out of Range SPCC's out = 0 CCC's out = 1
1A42110.D V1A_12-12-2022.M Tue Dec 13 23:35:52 2022

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1698-CC1696
Lab FileID: 1A42150.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\12-14-2022\1A42150.D Vial: 2
Acq On : 14 Dec 2022 10:08 am Operator: joannel
Sample : CC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1698,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V1A_12-12-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Tue Dec 13 09:29:27 2022
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	106	0.00	3.65
2	Dichlorodifluoromethane	0.351	0.278	20.8#	83	0.00	1.03
		Amount	Calc.	%Drift			
3 P	Chloromethane	40.000	28.781	28.0#	75	0.00	1.16
		AvgRF	CCRF	%Dev			
4	1,3-butadiene	0.238	0.209	12.2	87	0.00	1.23
5 C	Vinyl Chloride	0.326	0.259	20.6#	83	0.00	1.21
		Amount	Calc.	%Drift			
6	Bromomethane	40.000	32.486	18.8	86	0.00	1.41
		AvgRF	CCRF	%Dev			
7	Chloroethane	0.129	0.096	25.6#	97	0.00	1.48
		Amount	Calc.	%Drift			
8	Trichlorofluoromethane	40.000	36.383	9.0	92	0.00	1.58
		AvgRF	CCRF	%Dev			
9	Ethyl Ether	0.233	0.196	15.9	83	0.00	1.77
10	Ethanol	0.005	0.003	40.0#	82	0.00	1.85
11	1,2-Dichlorotrifluoroetha	0.363	0.306	15.7	85	0.00	1.87
12 C	1,1-Dichloroethene	0.430	0.366	14.9	83	0.00	1.88
13	Freon 113	0.302	0.277	8.3	88	0.00	1.91
14	Carbon Disulfide	0.855	0.708	17.2	84	0.00	1.90
		Amount	Calc.	%Drift			
15	Iodomethane	40.000	36.752	8.1	84	0.00	1.96
16	Acrolein	200.000	164.271	17.9	87	0.00	2.05
		AvgRF	CCRF	%Dev			
17	Allyl chloride	0.387	0.307	20.7#	80	0.00	2.14
		Amount	Calc.	%Drift			
18	Methylene Chloride	40.000	31.393	21.5#	84	0.00	2.20
19	Acetone	200.000	163.284	18.4	90	0.00	2.21
		AvgRF	CCRF	%Dev			
20	Methyl acetate	0.241	0.206	14.5	84	0.00	2.30
21	trans-1,2-Dichloroethene	0.426	0.359	15.7	82	0.00	2.30
22	Hexane	0.244	0.209	14.3	87	0.00	2.37

Continuing Calibration Summary

Job Number: FC1200 **Sample:** V1A1698-CC1696
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 1A42150.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

23		Methyl Tert Butyl Ether	0.887	0.767	13.5	84	0.00	2.37
24		Acetonitrile	0.047	0.041	12.8	86	0.00	2.37
25		Tert Butyl Alcohol	0.054	0.047	13.0	88	0.00	2.40
26		Di-isopropyl ether	0.821	0.701	14.6	83	0.00	2.59
27		Chloroprene	1.010	0.833	17.5	85	0.00	2.63
28	P	1,1-Dichloroethane	0.539	0.458	15.0	83	0.00	2.63
29		Acrylonitrile	0.122	0.101	17.2	86	0.00	2.63
30		ETBE	0.884	0.782	11.5	85	0.00	2.80
31		Vinyl acetate	0.583	0.482	17.3	85	0.00	2.77
32		cis-1,2-Dichloroethene	0.340	0.292	14.1	86	0.00	2.93
33		2,2-Dichloropropane	0.490	0.421	14.1	84	0.00	3.00
34		Bromochloromethane	0.160	0.145	9.4	88	0.00	3.04
35		Cyclohexane	0.478	0.412	13.8	87	0.00	3.07
36	C	Chloroform	0.589	0.507	13.9	86	0.00	3.08
37		Ethyl acetate	0.325	0.277	14.8	87	0.00	3.15
		---------- Amount	Calc.	%Drift	----------			
38		Tetrahydrofuran	40.000	34.280	14.3	88	0.00	3.17
		---------- AvgRF	CCRF	%Dev	----------			
39	S	Dibromofluoromethane	0.321	0.283	11.8	95	0.00	3.18
40		Carbon Tetrachloride	0.438	0.386	11.9	87	0.00	3.18
41		1,1,1-Trichloroethane	0.493	0.434	12.0	87	0.00	3.21
42		2-Butanone	0.184	0.145	21.2#	86	0.00	3.24
43		1,1-Dichloropropene	0.426	0.378	11.3	86	0.00	3.28
		---------- Amount	Calc.	%Drift	----------			
44		tert-Butyl formate	200.000	169.504	15.2	88	0.00	3.33
		---------- AvgRF	CCRF	%Dev	----------			
45		Propionitrile	0.053	0.043	18.9	85	0.00	3.38
46		Methacrylonitrile	0.196	0.166	15.3	84	0.00	3.40
47		Benzene	1.235	1.082	12.4	86	0.00	3.42
48		TAME	0.851	0.750	11.9	85	0.00	3.50
49	S	1,2-Dichloroethane-d4	0.329	0.321	2.4	102	0.00	3.47
50		1,2-Dichloroethane	0.431	0.373	13.5	86	0.00	3.51
		---------- Amount	Calc.	%Drift	----------			
51		Isobutyl Alcohol	800.000	627.186	21.6#	90	0.00	3.51
		---------- AvgRF	CCRF	%Dev	----------			
52		Tert Amyl Alcohol	0.044	0.038	13.6	87	0.00	3.57
53		Trichloroethene	0.348	0.307	11.8	87	0.00	3.76
54		Methylcyclohexane	0.515	0.481	6.6	92	0.00	3.77
55		Dibromomethane	0.213	0.186	12.7	87	0.00	3.99
56	C	1,2-Dichloropropane	0.312	0.268	14.1	85	0.00	4.05
57		Bromodichloromethane	0.413	0.361	12.6	86	0.00	4.09
		---------- Amount	Calc.	%Drift	----------			
58		Methyl methacrylate	40.000	32.592	18.5	82	0.00	4.18
		---------- AvgRF	CCRF	%Dev	----------			
59		1,4-Dioxane	0.004	0.004	0.0	92	0.00	4.20
60		2-Chloroethyl vinyl ether	0.211	0.184	12.8	88	0.00	4.44
61		cis-1,3-Dichloropropene	0.499	0.442	11.4	86	0.00	4.47
62	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	5.64
63	S	Toluene-d8	1.258	1.277	-1.5	102	0.00	4.61
64	C	Toluene	1.680	1.514	9.9	86	0.00	4.64
65		2-Nitropropane	0.112	0.105	6.3	85	0.00	4.74

Continuing Calibration Summary

Job Number: FC1200 **Sample:** V1A1698-CC1696
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 1A42150.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

66		4-Methyl-2-pentanone	0.466	0.377	19.1	85	0.00	4.86
67		trans-1,3-Dichloropropene	0.540	0.500	7.4	85	0.00	4.89
68		Tetrachloroethene	0.462	0.449	2.8	90	0.00	4.91
69		Ethyl methacrylate	0.504	0.443	12.1	83	0.00	5.01
70		1,1,2-Trichloroethane	0.300	0.278	7.3	86	0.00	4.99
71		Dibromochloromethane	0.400	0.383	4.3	88	0.00	5.12
72		1,3-Dichloropropane	0.598	0.553	7.5	85	0.00	5.17
73		1,2-Dibromoethane	0.391	0.366	6.4	87	0.00	5.27
74		3,3-Dimethyl-1-Butanol	0.060	0.051	15.0	89	0.00	5.41
75		2-hexanone	0.438	0.361	17.6	88	0.00	5.42
76		1-Chlorohexane	0.547	0.497	9.1	89	0.00	5.65
77	C	Ethylbenzene	1.790	1.651	7.8	86	0.00	5.68
78	P	Chlorobenzene	1.058	0.999	5.6	88	0.00	5.64
79		1,1,1,2-Tetrachloroethane	0.377	0.364	3.4	87	0.00	5.69
80		m,p-Xylene	1.409	1.300	7.7	87	0.00	5.78
81		o-Xylene	1.456	1.325	9.0	86	0.00	6.09
82		Styrene	1.123	1.050	6.5	87	0.00	6.12
83	P	Bromoform	0.269	0.261	3.0	89	0.00	6.12
84		Isopropylbenzene	1.716	1.607	6.4	87	0.00	6.33
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	7.38
86	S	4-Bromofluorobenzene	0.852	0.855	-0.4	101	0.00	6.51
87		cis-1,4-Dichloro-2-butene	0.309	0.247	20.1#	75	0.00	6.55
88		n-Propylbenzene	3.893	3.686	5.3	88	0.00	6.64
89		Bromobenzene	0.871	0.852	2.2	90	0.00	6.59
90	P	1,1,2,2-Tetrachloroethane	0.964	0.896	7.1	86	0.00	6.66
91		1,3,5-Trimethylbenzene	2.834	2.669	5.8	86	0.00	6.79
92		2-Chlorotoluene	2.263	2.115	6.5	87	0.00	6.74
93		trans-1,4-Dichloro-2-Bute	0.338	0.290	14.2	81	0.00	6.79
94		1,2,3-Trichloropropane	0.291	0.274	5.8	87	0.00	6.75
			Amount	Calc.	%Drift			
95		Cyclohexanone	200.000	173.918	13.0	92	0.00	6.77
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	2.364	2.195	7.1	87	0.00	6.87
97		tert-Butylbenzene	1.603	1.482	7.5	86	0.00	7.04
98		1,2,4-Trimethylbenzene	2.710	2.576	4.9	87	0.00	7.09
99		Pentachloroethane	0.450	0.435	3.3	86	0.00	7.04
100		sec-Butylbenzene	3.330	3.190	4.2	88	0.00	7.18
101		4-Isopropyltoluene	2.937	2.827	3.7	89	0.00	7.30
102		1,3-Dichlorobenzene	1.570	1.505	4.1	89	0.00	7.32
103		1,2,3-Trimethylbenzene	2.609	2.466	5.5	87	0.00	7.43
104		1,4-Dichlorobenzene	1.611	1.524	5.4	89	0.00	7.40
105		n-Butylbenzene	1.478	1.425	3.6	89	0.00	7.63
106		Benzyl Chloride	0.376	0.364	3.2	85	0.00	7.58
107		1,2-Dichlorobenzene	1.461	1.388	5.0	90	0.00	7.71
108		1,2-Dibromo-3-Chloropropa	0.188	0.171	9.0	85	0.00	8.30
109		Hexachlorobutadiene	0.542	0.527	2.8	92	0.00	8.80
110		1,2,4-Trichlorobenzene	1.013	0.968	4.4	89	0.00	8.79
111		Naphthalene	2.781	2.531	9.0	86	0.00	9.00
112		1,2,3-Trichlorobenzene	0.957	0.888	7.2	86	0.00	9.13

(#) = Out of Range SPCC's out = 0 CCC's out = 1
1A42110.D V1A_12-12-2022.M Wed Dec 14 10:51:32 2022

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1698-ECC1696
Lab FileID: 1A42165.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jo...1a1698-1699\1A42165.d Vial: 17
Acq On : 14 Dec 2022 4:04 pm Operator: joannel
Sample : ECC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1698,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\met...V1A_12-12-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Tue Dec 13 09:29:27 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Fluorobenzene	1.000	1.000	0.0	108	0.00	3.65
2	Dichlorodifluoromethane	0.351	0.263	25.1	79	0.00	1.04
	---------- True	Calc.	% Drift	----------			
3 P	Chloromethane	40.000	26.754	33.1	71	0.00	1.16
	---------- AvgRF	CCRF	% Dev	----------			
4	1,3-butadiene	0.238	0.198	16.8	83	0.00	1.23
5 C	Vinyl Chloride	0.326	0.238	27.0#	77	0.00	1.21
	---------- True	Calc.	% Drift	----------			
6	Bromomethane	40.000	26.927	32.7	73	0.00	1.41
	---------- AvgRF	CCRF	% Dev	----------			
7	Chloroethane	0.129	0.083	35.7	85	0.00	1.49
	---------- True	Calc.	% Drift	----------			
8	Trichlorofluoromethane	40.000	32.951	17.6	85	0.00	1.58
	---------- AvgRF	CCRF	% Dev	----------			
9	Ethyl Ether	0.233	0.186	20.2	80	0.00	1.77
10	Ethanol	0.005	0.003	40.0	79	0.00	1.85
11	1,2-Dichlorotrifluoroetha	0.363	0.282	22.3	79	0.00	1.88
12 C	1,1-Dichloroethene	0.430	0.335	22.1#	77	0.00	1.88
13	Freon 113	0.302	0.258	14.6	83	0.00	1.92
14	Carbon Disulfide	0.855	0.641	25.0	77	0.00	1.90
	---------- True	Calc.	% Drift	----------			
15	Iodomethane	40.000	34.946	12.6	80	0.00	1.96
16	Acrolein	200.000	146.510	26.7	79	0.00	2.05
	---------- AvgRF	CCRF	% Dev	----------			
17	Allyl chloride	0.387	0.277	28.4	73	0.00	2.15
	---------- True	Calc.	% Drift	----------			
18	Methylene Chloride	40.000	29.446	26.4	80	0.00	2.20
19	Acetone	200.000	157.673	21.2	88	0.00	2.21
	---------- AvgRF	CCRF	% Dev	----------			
20	Methyl acetate	0.241	0.195	19.1	80	0.00	2.30
21	trans-1,2-Dichloroethene	0.426	0.330	22.5	76	0.00	2.30
22	Hexane	0.244	0.183	25.0	76	0.00	2.37

Continuing Calibration Summary

Job Number: FC1200 **Sample:** V1A1698-ECC1696
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 1A42165.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

23		Methyl Tert Butyl Ether	0.887	0.739	16.7	82	0.00	2.37
24		Acetonitrile	0.047	0.037	21.3	77	0.00	2.37
25		Tert Butyl Alcohol	0.054	0.044	18.5	84	0.00	2.40
26		Di-isopropyl ether	0.821	0.657	20.0	79	0.00	2.59
27		Chloroprene	1.010	0.778	23.0	81	0.00	2.63
28	P	1,1-Dichloroethane	0.539	0.423	21.5	78	0.00	2.63
29		Acrylonitrile	0.122	0.096	21.3	83	0.00	2.63
30		ETBE	0.884	0.742	16.1	82	0.00	2.80
31		Vinyl acetate	0.583	0.448	23.2	80	0.00	2.77
32		cis-1,2-Dichloroethene	0.340	0.273	19.7	82	0.00	2.93
33		2,2-Dichloropropane	0.490	0.375	23.5	75	0.00	3.00
34		Bromochloromethane	0.160	0.141	11.9	86	0.00	3.04
35		Cyclohexane	0.478	0.378	20.9	81	0.00	3.08
36	C	Chloroform	0.589	0.477	19.0	82	0.00	3.08
37		Ethyl acetate	0.325	0.259	20.3	83	0.00	3.15
			True	Calc.	% Drift			
38		Tetrahydrofuran	40.000	32.567	18.6	85	0.00	3.17
			AvgRF	CCRF	% Dev			
39	S	Dibromofluoromethane	0.321	0.277	13.7	94	0.00	3.18
40		Carbon Tetrachloride	0.438	0.347	20.8	79	0.00	3.19
41		1,1,1-Trichloroethane	0.493	0.403	18.3	81	0.00	3.21
42		2-Butanone	0.184	0.137	25.5	82	0.00	3.23
43		1,1-Dichloropropene	0.426	0.345	19.0	79	0.00	3.28
			True	Calc.	% Drift			
44		tert-Butyl formate	200.000	155.154	22.4	81	0.00	3.33
			AvgRF	CCRF	% Dev			
45		Propionitrile	0.053	0.042	20.8	83	0.00	3.38
46		Methacrylonitrile	0.196	0.156	20.4	80	0.00	3.40
47		Benzene	1.235	1.005	18.6	81	0.00	3.42
48		TAME	0.851	0.718	15.6	82	0.00	3.50
49	S	1,2-Dichloroethane-d4	0.329	0.321	2.4	103	0.00	3.47
50		1,2-Dichloroethane	0.431	0.354	17.9	83	0.00	3.51
			True	Calc.	% Drift			
51		Isobutyl Alcohol	800.000	1286.585	-60.8#	195	0.00	3.51
			AvgRF	CCRF	% Dev			
52		Tert Amyl Alcohol	0.044	0.037	15.9	85	0.00	3.57
53		Trichloroethene	0.348	0.282	19.0	80	0.00	3.76
54		Methylcyclohexane	0.515	0.435	15.5	84	0.00	3.78
55		Dibromomethane	0.213	0.177	16.9	84	0.00	3.99
56	C	1,2-Dichloropropane	0.312	0.250	19.9	80	0.00	4.05
57		Bromodichloromethane	0.413	0.336	18.6	80	0.00	4.09
			True	Calc.	% Drift			
58		Methyl methacrylate	40.000	30.727	23.2	78	0.00	4.18
			AvgRF	CCRF	% Dev			
59		1,4-Dioxane	0.004	0.004	0.0	88	0.00	4.20
60		2-Chloroethyl vinyl ether	0.211	0.162	23.2	78	0.00	4.44
61		cis-1,3-Dichloropropene	0.499	0.406	18.6	80	0.00	4.47
62	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00	5.64
63	S	Toluene-d8	1.258	1.288	-2.4	101	0.00	4.60
64	C	Toluene	1.680	1.446	13.9	81	0.00	4.64
65		2-Nitropropane	0.112	0.097	13.4	77	0.00	4.74

Continuing Calibration Summary

Job Number: FC1200 **Sample:** V1A1698-ECC1696
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 1A42165.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

66		4-Methyl-2-pentanone	0.466	0.364	21.9	81	0.00	4.86
67		trans-1,3-Dichloropropene	0.540	0.477	11.7	80	0.00	4.89
68		Tetrachloroethene	0.462	0.436	5.6	86	0.00	4.91
69		Ethyl methacrylate	0.504	0.428	15.1	79	0.00	5.01
70		1,1,2-Trichloroethane	0.300	0.276	8.0	84	0.00	4.99
71		Dibromochloromethane	0.400	0.374	6.5	84	0.00	5.12
72		1,3-Dichloropropane	0.598	0.543	9.2	82	0.00	5.17
73		1,2-Dibromoethane	0.391	0.362	7.4	84	0.00	5.27
74		3,3-Dimethyl-1-Butanol	0.060	0.051	15.0	86	0.00	5.41
75		2-hexanone	0.438	0.345	21.2	83	0.00	5.42
76		1-Chlorohexane	0.547	0.457	16.5	81	0.00	5.65
77	C	Ethylbenzene	1.790	1.574	12.1	81	0.00	5.68
78	P	Chlorobenzene	1.058	0.962	9.1	84	0.00	5.64
79		1,1,1,2-Tetrachloroethane	0.377	0.355	5.8	84	0.00	5.69
80		m,p-Xylene	1.409	1.238	12.1	81	0.00	5.78
81		o-Xylene	1.456	1.266	13.0	81	0.00	6.09
82		Styrene	1.123	1.018	9.3	83	0.00	6.12
83	P	Bromoform	0.269	0.250	7.1	84	0.00	6.12
84		Isopropylbenzene	1.716	1.531	10.8	82	0.00	6.33
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	7.38
86	S	4-Bromofluorobenzene	0.852	0.868	-1.9	100	0.00	6.51
87		cis-1,4-Dichloro-2-butene	0.309	0.221	28.5	66	0.00	6.55
88		n-Propylbenzene	3.893	3.521	9.6	82	0.00	6.64
89		Bromobenzene	0.871	0.846	2.9	87	0.00	6.59
90	P	1,1,2,2-Tetrachloroethane	0.964	0.898	6.8	84	0.00	6.66
91		1,3,5-Trimethylbenzene	2.834	2.605	8.1	82	0.00	6.79
92		2-Chlorotoluene	2.263	2.029	10.3	82	0.00	6.74
93		trans-1,4-Dichloro-2-Bute	0.338	0.271	19.8	74	0.00	6.79
94		1,2,3-Trichloropropane	0.291	0.279	4.1	87	0.00	6.75
			True	Calc.	% Drift			
95		Cyclohexanone	200.000	166.544	16.7	86	0.00	6.77
			AvgRF	CCRF	% Dev			
96		4-Chlorotoluene	2.364	2.129	9.9	82	0.00	6.87
97		tert-Butylbenzene	1.603	1.421	11.4	81	0.00	7.04
98		1,2,4-Trimethylbenzene	2.710	2.508	7.5	82	0.00	7.09
99		Pentachloroethane	0.450	0.415	7.8	80	0.00	7.04
100		sec-Butylbenzene	3.330	3.070	7.8	83	0.00	7.18
101		4-Isopropyltoluene	2.937	2.752	6.3	84	0.00	7.30
102		1,3-Dichlorobenzene	1.570	1.489	5.2	86	0.00	7.32
103		1,2,3-Trimethylbenzene	2.609	2.425	7.1	84	0.00	7.43
104		1,4-Dichlorobenzene	1.611	1.503	6.7	86	0.00	7.39
105		n-Butylbenzene	1.478	1.359	8.1	83	0.00	7.63
106		Benzyl Chloride	0.376	0.322	14.4	74	0.00	7.58
107		1,2-Dichlorobenzene	1.461	1.378	5.7	87	0.00	7.71
108		1,2-Dibromo-3-Chloropropa	0.188	0.172	8.5	84	0.00	8.30
109		Hexachlorobutadiene	0.542	0.527	2.8	89	0.00	8.80
110		1,2,4-Trichlorobenzene	1.013	0.963	4.9	87	0.00	8.79
111		Naphthalene	2.781	2.571	7.6	86	0.00	9.00
112		1,2,3-Trichlorobenzene	0.957	0.912	4.7	86	0.00	9.13

(#) = Out of Range SPCC's out = 0 CCC's out = 2
1A42110.D V1A_12-12-2022.M Thu Dec 15 04:55:53 2022

Initial Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3621-ICC3621
Lab FileID: 1P94958.D

Response Factor Report MSVOA13

Method : C:\msdchem\1\MET...V1P_2022-11-04.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

Calibration Files
1 =1P94950.D 2 =1P94952.D 3 =1P94954.D 4 =1P94956.D
5 =1P94958.D 6 =1P94960.D 7 =1P94962.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.209	0.156	0.168	0.173	0.170	0.179	0.184	0.177	9.52
3)P Chloromethane	0.409	0.243	0.250	0.252	0.242	0.253	0.266	0.274	21.98
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992									
Response Ratio = 0.00000 + 0.24261 *A + 0.01028 *A^2									
4) 1,3-butadiene	0.311	0.231	0.238	0.236	0.226	0.216	0.215	0.239	13.73
5)C Vinyl Chloride	0.268	0.203	0.221	0.229	0.208	0.207	0.210	0.221	10.31
6) Bromomethane	0.057	0.030	0.028	0.027	0.023	0.022	0.022	0.030	41.10
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9964									
Response Ratio = 0.00000 + 0.02747 *A + -0.00295 *A^2									
7) Chloroethane	0.102	0.078	0.093	0.067	0.061	0.057	0.058	0.074	24.22
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9914									
Response Ratio = 0.00000 + 0.07346 *A + -0.00894 *A^2									
8) Trichlorofluorome	0.330	0.231	0.254	0.246	0.229	0.208	0.153	0.236	22.60
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9964									
Response Ratio = 0.00000 + 0.27706 *A + -0.05912 *A^2									
9) Ethyl Ether	0.259	0.198	0.212	0.197	0.185	0.160	0.140	0.193	19.87
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996									
Response Ratio = 0.00000 + 0.21532 *A + -0.03825 *A^2									
10) Ethanol	0.013	0.007	0.008	0.006	0.006	0.005	0.004	0.007	41.33
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9967									
Response Ratio = 0.00000 + 0.00749 *A + -0.00009 *A^2									
11) 1,2-Dichlorotrifl	0.269	0.203	0.233	0.233	0.246	0.249	0.243	0.239	8.37
12)C 1,1-Dichloroethen	0.300	0.230	0.278	0.281	0.302	0.307	0.306	0.286	9.59
13) Freon 113	0.175	0.132	0.154	0.160	0.170	0.181	0.177	0.164	10.42
14) Carbon Disulfide	1.141	0.537	0.556	0.538	0.535	0.581	0.585	0.639	34.81
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9982									
Response Ratio = 0.00000 + 0.54184 *A + 0.02154 *A^2									
15) Iodomethane	0.040	0.023	0.025	0.028	0.025	0.025	0.027	0.028	20.27
---- Linear regr., Force(0,0) ---- Coefficient = 0.9957									
Response Ratio = 0.00000 + 0.02639 *A									
16) Acrolein	0.080	0.059	0.058	0.061	0.061	0.062	0.061	0.063	11.95
17) Allyl chloride	0.253	0.195	0.234	0.237	0.228	0.236	0.243	0.232	7.83
18) Methylene Chlorid	1.580	0.520	0.407	0.383	0.326	0.285	0.277	0.540	86.38
---- Linear regr., Force(0,0) ---- Coefficient = 0.9952									
Response Ratio = 0.00000 + 0.28905 *A									
19) Acetone	0.252	0.129	0.135	0.130	0.122	0.117	0.111	0.142	34.51

Initial Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3621-ICC3621
Lab FileID: 1P94958.D

```
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
              Response Ratio = 0.00000 + 0.13634 *A + -0.00266 *A^2

20)  Methyl acetate    0.373 0.262 0.300 0.291 0.287 0.281 0.276 0.296  12.24
21)  trans-1,2-Dichlor 0.291 0.235 0.266 0.279 0.271 0.284 0.294 0.274   7.37
22)  Hexane            0.173 0.119 0.140 0.148 0.152 0.162 0.163 0.151  11.81
23)  Methyl Tert Butyl 0.731 0.536 0.624 0.638 0.651 0.671 0.681 0.647   9.31
24)  Tert Butyl Alcoho 0.094 0.063 0.068 0.066 0.064 0.064 0.060 0.069  16.69
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 0.06846 *A + -0.00038 *A^2

25)  Acetonitrile      0.067 0.045 0.048 0.044 0.040 0.033 0.030 0.044  27.61
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
              Response Ratio = 0.00000 + 0.04811 *A + -0.00096 *A^2

26)  Di-isopropyl ethe 0.740 0.577 0.666 0.669 0.661 0.687 0.689 0.670   7.27
27)  Chloroprene       1.207 0.832 1.045 0.984 0.972 1.001 0.981 1.003  11.12
28)P 1,1-Dichloroethan 0.369 0.302 0.355 0.358 0.353 0.366 0.370 0.353   6.71
29)  Acrylonitrile     0.168 0.112 0.138 0.130 0.126 0.127 0.125 0.132  13.19
30)  ETBE              0.715 0.541 0.647 0.649 0.650 0.678 0.691 0.653   8.52
31)  Vinyl acetate     0.602 0.406 0.532 0.499 0.495 0.511 0.495 0.506  11.49
32)  cis-1,2-Dichloroe 0.218 0.169 0.191 0.195 0.192 0.198 0.199 0.195   7.36
33)  2,2-Dichloropropa 0.315 0.240 0.284 0.292 0.291 0.307 0.321 0.293   9.17
34)  Bromochloromethan 0.091 0.068 0.078 0.078 0.077 0.079 0.079 0.079   8.74
35)  Cyclohexane       0.319 0.257 0.302 0.327 0.331 0.345 0.352 0.319  10.04
36)C Chloroform        0.390 0.293 0.336 0.348 0.343 0.357 0.369 0.348   8.63
37)  Ethyl acetate     0.499 0.308 0.387 0.359 0.352 0.355 0.348 0.373  16.23
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 0.36357 *A + -0.00153 *A^2

38)  Tetrahydrofuran   0.218 0.129 0.140 0.142 0.138 0.128 0.129 0.146  21.92
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 0.14341 *A + -0.00806 *A^2

39)S Dibromofluorometh 0.202 0.201 0.206 0.208 0.211 0.215 0.217 0.208   2.91
40)  Carbon Tetrachlor 0.206 0.165 0.199 0.207 0.216 0.234 0.244 0.210  12.20
41)  1,1,1-Trichloroet 0.306 0.235 0.284 0.289 0.290 0.305 0.319 0.290   9.30
42)  2-Butanone        0.349 0.186 0.212 0.212 0.209 0.206 0.198 0.225  24.72
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
              Response Ratio = 0.00000 + 0.21612 *A + -0.00169 *A^2

43)  1,1-Dichloroprope 0.294 0.220 0.263 0.265 0.265 0.276 0.284 0.267   8.82
44)  tert-Butyl format 0.157 0.123 0.132 0.148 0.159 0.169 0.178 0.152  12.82
45)  Propionitrile     0.064 0.053 0.061 0.059 0.057 0.055 0.055 0.058   6.52
46)  Methacrylonitrile 0.200 0.184 0.217 0.218 0.217 0.212 0.200 0.207   6.26
47)  Benzene           0.908 0.731 0.851 0.849 0.841 0.879 0.914 0.853   7.19
48)  TAME              0.671 0.497 0.599 0.601 0.614 0.630 0.640 0.607   8.99
49)S 1,2-Dichloroethan 0.296 0.293 0.300 0.301 0.309 0.299 0.306 0.300   1.87
50)  Isobutyl alcohol  0.040 0.032 0.037 0.036 0.036 0.034 0.031 0.035   8.66
51)  1,2-Dichloroethan 0.333 0.249 0.283 0.278 0.279 0.286 0.287 0.285   8.71
52)  Tert Amyl Alcohol 0.065 0.047 0.052 0.053 0.052 0.053 0.051 0.053  10.87
53)  Trichloroethene   0.226 0.172 0.197 0.201 0.199 0.204 0.211 0.201   8.08
54)  Methylcyclohexane 0.293 0.223 0.272 0.294 0.295 0.312 0.317 0.287  11.06
55)  Dibromomethane    0.134 0.097 0.110 0.111 0.112 0.116 0.117 0.114   9.74
56)C 1,2-Dichloropropa 0.226 0.177 0.200 0.198 0.196 0.201 0.206 0.200   7.20
57)  Bromodichlorometh 0.207 0.164 0.202 0.220 0.223 0.235 0.244 0.214  12.31
58)  Methyl methacryla 0.222 0.193 0.214 0.235 0.245 0.254 0.255 0.231   9.95
59)  1,4-Dioxane       0.009 0.004 0.005 0.005 0.004 0.004 0.004 0.005  34.77
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9980
              Response Ratio = 0.00000 + 0.00464 *A + -0.00002 *A^2
```

Initial Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3621-ICC3621
Lab FileID: 1P94958.D

```
60)  2-Chloroethyl vin 0.060 0.054 0.053 0.061 0.059 0.063 0.068 0.060   8.49
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.05433 *A + 0.00131 *A^2

61)  cis-1,3-Dichlorop 0.273 0.220 0.270 0.292 0.293 0.309 0.317 0.282  11.46

62) I   Chlorobenzene-d5      ----------------ISTD--------------------
63)S Toluene-d8        1.508 1.480 1.467 1.459 1.455 1.445 1.456 1.467   1.45
64)C Toluene           1.534 1.151 1.306 1.311 1.283 1.306 1.345 1.320   8.58
65)  2-Nitropropane    0.130 0.097 0.122 0.136 0.142 0.152 0.154 0.133  14.77
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
              Response Ratio = 0.00000 + 0.12639 *A + 0.00304 *A^2

66)  4-Methyl-2-pentan 0.849 0.473 0.548 0.554 0.557 0.551 0.529 0.580  21.06
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
              Response Ratio = 0.00000 + 0.56374 *A + -0.00304 *A^2

67)  trans-1,3-Dichlor 0.388 0.295 0.364 0.391 0.401 0.418 0.431 0.384  11.69
68)  Tetrachloroethene 0.286 0.215 0.252 0.258 0.260 0.264 0.272 0.258   8.56
69)  Ethyl methacrylat 0.312 0.328 0.414 0.439 0.445 0.456 0.466 0.409  15.37
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.41188 *A + 0.02905 *A^2

70)  1,1,2-Trichloroet 0.267 0.199 0.228 0.222 0.220 0.222 0.226 0.226   9.03
71)  Dibromochlorometh 0.188 0.153 0.188 0.213 0.223 0.235 0.245 0.206  15.58
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 0.19458 *A + 0.02669 *A^2

72)  1,3-Dichloropropa 0.627 0.435 0.504 0.490 0.489 0.488 0.490 0.503  11.68
73)  1,2-Dibromoethane 0.274 0.209 0.256 0.261 0.259 0.264 0.266 0.256   8.39
74)  3,3-dimethyl-1-bu 0.078 0.067 0.077 0.087 0.089 0.090 0.086 0.082  10.04
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
              Response Ratio = 0.00000 + 0.08435 *A + 0.00004 *A^2

75)  2-hexanone        0.803 0.498 0.592 0.618 0.615 0.599 0.556 0.612  15.38
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9979
              Response Ratio = 0.00000 + 0.62838 *A + -0.00634 *A^2

76)  1-Chlorohexane    0.562 0.376 0.382 0.402 0.406 0.407 0.404 0.420  15.25
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.40105 *A + 0.00224 *A^2

77)C Ethylbenzene      1.561 1.204 1.385 1.384 1.343 1.374 1.425 1.382   7.66
78)P Chlorobenzene     0.896 0.652 0.739 0.736 0.719 0.724 0.742 0.744   9.93
79)  1,1,1,2-Tetrachlo 0.230 0.178 0.214 0.228 0.231 0.237 0.242 0.223   9.78
80)  m,p-Xylene        1.121 0.891 1.060 1.087 1.081 1.110 1.135 1.069   7.72
81)  o-Xylene          1.181 0.876 1.055 1.079 1.034 1.062 1.104 1.056   8.75
82)  Styrene           0.671 0.571 0.727 0.786 0.787 0.816 0.826 0.741  12.44
83)P Bromoform         0.097 0.070 0.093 0.106 0.117 0.129 0.138 0.107  21.48
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9986
              Response Ratio = 0.00000 + 0.09412 *A + 0.02291 *A^2

84)  Isopropylbenzene  1.193 0.966 1.155 1.218 1.196 1.214 1.234 1.168   7.92

85) I   1,4-Dichlorobenzene-d ----------------ISTD--------------------
86)S 4-Bromofluorobenz 0.768 0.766 0.767 0.751 0.761 0.757 0.777 0.764   1.09
87)  cis-1,4-Dichloro- 0.300 0.233 0.279 0.279 0.295 0.317 0.334 0.291  11.10
88)  n-Propylbenzene   3.824 2.917 3.378 3.451 3.349 3.476 3.587 3.426   8.03
89)  Bromobenzene      0.765 0.530 0.600 0.597 0.591 0.608 0.631 0.617  11.66
```

Initial Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3621-ICC3621
Lab FileID: 1P94958.D

```
 90)P 1,1,2,2-Tetrachlo 1.192 0.818 0.965 0.950 0.916 0.936 0.962 0.963  11.72
 91)  1,3,5-Trimethylbe 2.394 1.874 2.283 2.332 2.286 2.362 2.434 2.281   8.23
 92)  2-Chlorotoluene   2.344 1.773 2.034 2.017 1.960 2.026 2.105 2.037   8.39
 93)  trans-1,4-Dichlor 0.381 0.286 0.328 0.336 0.340 0.365 0.383 0.346   9.87
 94)  1,2,3-Trichloropr 0.440 0.300 0.339 0.325 0.315 0.322 0.327 0.338  13.77
 95)  Cyclohexanone     0.100 0.053 0.074 0.067 0.063 0.064 0.064 0.069  21.58
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9974
               Response Ratio = 0.00000 + 0.06665 *A + -0.00034 *A^2

 96)  4-Chlorotoluene   2.449 1.842 2.168 2.097 2.051 2.125 2.201 2.133   8.53
 97)  tert-Butylbenzene 1.378 1.120 1.262 1.283 1.274 1.338 1.383 1.291   6.98
 98)  a-Methyl styrene                                                0.000  -1.00
 99)  1,2,4-Trimethylbe 2.385 1.874 2.210 2.226 2.199 2.297 2.341 2.219   7.54
100)  Pentachloroethane 0.191 0.218 0.241 0.273 0.279 0.296 0.308 0.258  16.66
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
               Response Ratio = 0.00000 + 0.24896 *A + 0.03101 *A^2

101)  sec-Butylbenzene  2.687 2.086 2.499 2.517 2.472 2.578 2.617 2.494   7.80
102)  4-Isopropyltoluen 2.091 1.676 2.068 2.166 2.116 2.210 2.261 2.084   9.23
103)  1,3-Dichlorobenze 1.346 0.977 1.118 1.110 1.107 1.116 1.144 1.131   9.66
104)  1,2,3-Trimethylbe 2.595 1.859 2.180 2.155 2.139 2.219 2.245 2.199   9.84
105)  1,4-Dichlorobenze 1.397 1.042 1.171 1.149 1.128 1.145 1.170 1.172   9.27
106)  n-Butylbenzene    1.154 0.888 1.066 1.114 1.078 1.136 1.154 1.084   8.59
107)  Benzyl Chloride   0.214 0.171 0.224 0.272 0.300 0.339 0.346 0.266  24.86
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9973
               Response Ratio = 0.00000 + 0.24246 *A + 0.05652 *A^2

108)  1,2-Dichlorobenze 1.311 0.902 1.025 1.029 1.031 1.057 1.072 1.061  11.62
109)  1,2-Dibromo-3-Chl 0.231 0.166 0.194 0.213 0.218 0.236 0.244 0.215  12.64
110)  Hexachlorobutadie 0.240 0.174 0.188 0.190 0.183 0.194 0.200 0.195  10.92
111)  1,2,4-Trichlorobe 0.704 0.479 0.556 0.566 0.559 0.589 0.592 0.578  11.62
112)  Naphthalene       2.997 2.051 2.390 2.514 2.562 2.656 2.646 2.545  11.29
113)  1,2,3-Trichlorobe 0.645 0.447 0.518 0.532 0.520 0.543 0.536 0.534  10.89
 ----------------------------------------------------------------------------
 (#) = Out of Range

           V1P_2022-11-04.M        Fri Nov 04 16:32:13 2022
```

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3621-ICV3621
Lab FileID: 1P94968.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2022-11-04\1P94968.D Vial: 11
Acq On : 4 Nov 2022 3:34 pm Operator: courtnef
Sample : ICV3621-5 Inst : MSVOA13
Misc : MS52500,V1P3621,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V1P_2022-11-04.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Nov 04 16:23:46 2022
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	102	0.00	3.71
2	Dichlorodifluoromethane	0.177	0.152	14.1	92	-0.01	1.11
	----------	Amount	Calc.	%Drift	----------		
3 P	Chloromethane	40.000	36.965	7.6	98	0.00	1.23
	----------	AvgRF	CCRF	%Dev	----------		
4	1,3-butadiene	0.239	0.224	6.3	101	-0.01	1.30
5 C	Vinyl Chloride	0.221	0.202	8.6	99	0.00	1.29
	----------	Amount	Calc.	%Drift	----------		
6	Bromomethane	40.000	45.831	-14.6	124	-0.01	1.49
7	Chloroethane	40.000	35.500	11.3	100	0.00	1.57
8	Trichlorofluoromethane		----------NA----------				
9	Ethyl Ether	40.000	37.949	5.1	98	0.00	1.87
10	Ethanol	800.000	730.538	8.7	94	0.01	1.97
	----------	AvgRF	CCRF	%Dev	----------		
11	1,2-Dichlorotrifluoroetha	0.239	0.208	13.0	86	-0.01	1.96
12 C	1,1-Dichloroethene	0.286	0.282	1.4	96	0.00	1.97
13	Freon 113	0.164	0.150	8.5	90	-0.01	2.00
	----------	Amount	Calc.	%Drift	----------		
14	Carbon Disulfide	40.000	34.483	13.8	92	-0.01	1.98
15	Iodomethane		----------NA----------				
	----------	AvgRF	CCRF	%Dev	----------		
16	Acrolein	0.063	0.072	-14.3	121	0.00	2.14
17	Allyl chloride	0.232	0.272	-17.2	122	-0.01	2.23
	----------	Amount	Calc.	%Drift	----------		
18	Methylene Chloride	40.000	34.166	14.6	78	0.00	2.29
19	Acetone	200.000	213.229	-6.6	112	0.00	2.31
	----------	AvgRF	CCRF	%Dev	----------		
20	Methyl acetate	0.296	0.284	4.1	101	0.00	2.39
21	trans-1,2-Dichloroethene	0.274	0.262	4.4	99	0.00	2.39
22	Hexane	0.151	0.143	5.3	96	0.00	2.46
23	Methyl Tert Butyl Ether	0.647	0.627	3.1	99	0.00	2.46
	----------	Amount	Calc.	%Drift	----------		
24	Tert Butyl Alcohol	400.000	403.228	-0.8	105	0.01	2.52

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3621-ICV3621
Lab FileID: 1P94968.D

25		Acetonitrile			NA				
			AvgRF	CCRF	%Dev				
26		Di-isopropyl ether	0.670	0.634	5.4	98	0.00	2.68	
27		Chloroprene	1.003	0.994	0.9	105	0.00	2.72	
28	P	1,1-Dichloroethane	0.353	0.351	0.6	102	0.00	2.72	
29		Acrylonitrile	0.132	0.129	2.3	105	0.00	2.72	
30		ETBE	0.653	0.608	6.9	96	0.00	2.88	
31		Vinyl acetate	0.506	0.581	-14.8	120	0.00	2.85	
32		cis-1,2-Dichloroethene	0.195	0.192	1.5	102	0.00	3.01	
33		2,2-Dichloropropane	0.293	0.272	7.2	96	0.00	3.08	
34		Bromochloromethane	0.079	0.077	2.5	103	0.00	3.12	
35		Cyclohexane	0.319	0.322	-0.9	100	0.00	3.15	
36	C	Chloroform	0.348	0.333	4.3	99	0.00	3.16	
			Amount	Calc.	%Drift				
37		Ethyl acetate	200.000	210.784	-5.4	109	0.00	3.22	
38		Tetrahydrofuran	40.000	39.012	2.5	99	0.00	3.25	
			AvgRF	CCRF	%Dev				
39	S	Dibromofluoromethane	0.208	0.211	-1.4	102	0.00	3.26	
40		Carbon Tetrachloride	0.210	0.215	-2.4	102	0.00	3.26	
41		1,1,1-Trichloroethane	0.290	0.289	0.3	102	0.00	3.28	
			Amount	Calc.	%Drift				
42		2-Butanone	200.000	198.067	1.0	102	0.00	3.31	
			AvgRF	CCRF	%Dev				
43		1,1-Dichloropropene	0.267	0.251	6.0	97	0.00	3.36	
44		tert-Butyl formate	0.152	0.117	23.0#	75	0.00	3.40	
45		Propionitrile	0.058	0.057	1.7	102	0.00	3.46	
46		Methacrylonitrile	0.207	0.205	1.0	97	0.00	3.48	
47		Benzene	0.853	0.800	6.2	97	0.00	3.49	
48		TAME	0.607	0.618	-1.8	103	0.00	3.56	
49	S	1,2-Dichloroethane-d4	0.300	0.312	-4.0	103	0.00	3.55	
50		Isobutyl alcohol	0.035	0.035	0.0	102	0.00	3.59	
51		1,2-Dichloroethane	0.285	0.269	5.6	99	0.00	3.58	
52		Tert Amyl Alcohol	0.053	0.053	0.0	104	0.00	3.65	
53		Trichloroethene	0.201	0.193	4.0	99	0.00	3.82	
54		Methylcyclohexane	0.287	0.293	-2.1	101	-0.01	3.83	
55		Dibromomethane	0.114	0.108	5.3	99	0.00	4.04	
56	C	1,2-Dichloropropane	0.200	0.183	8.5	96	0.00	4.10	
57		Bromodichloromethane	0.214	0.216	-0.9	99	0.00	4.14	
58		Methyl methacrylate	0.231	0.250	-8.2	105	0.00	4.23	
			Amount	Calc.	%Drift				
59		1,4-Dioxane			NA				
60		2-Chloroethyl vinyl ether			NA				
			AvgRF	CCRF	%Dev				
61		cis-1,3-Dichloropropene	0.282	0.284	-0.7	99	0.00	4.51	
62	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00	5.64	
63	S	Toluene-d8	1.467	1.465	0.1	102	0.00	4.64	
64	C	Toluene	1.320	1.238	6.2	98	0.00	4.68	
			Amount	Calc.	%Drift				
65		2-Nitropropane	200.000	208.881	-4.4	103	0.00	4.77	
66		4-Methyl-2-pentanone	200.000	192.500	3.8	97	0.00	4.89	

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3621-ICV3621
Lab FileID: 1P94968.D

			AvgRF	CCRF	%Dev			
67		trans-1,3-Dichloropropene	0.384	0.415	-8.1	105	0.00	4.91
68		Tetrachloroethene	0.258	0.252	2.3	98	0.00	4.93
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	37.695	5.8	93	0.00	5.03
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.226	0.213	5.8	98	0.00	5.02
			Amount	Calc.	%Drift			
71		Dibromochloromethane	40.000	39.273	1.8	96	0.00	5.14
			AvgRF	CCRF	%Dev			
72		1,3-Dichloropropane	0.503	0.444	11.7	92	0.00	5.19
73		1,2-Dibromoethane	0.256	0.256	0.0	100	0.00	5.29
			Amount	Calc.	%Drift			
74		3,3-dimethyl-1-butanol		----------NA----------				
75		2-hexanone	200.000	208.353	-4.2	103	0.00	5.43
76		1-Chlorohexane	40.000	39.356	1.6	99	0.00	5.65
			AvgRF	CCRF	%Dev			
77	C	Ethylbenzene	1.382	1.351	2.2	102	0.00	5.68
78	P	Chlorobenzene	0.744	0.698	6.2	98	0.00	5.65
79		1,1,1,2-Tetrachloroethane	0.223	0.225	-0.9	98	0.00	5.70
80		m,p-Xylene	1.069	1.063	0.6	100	0.00	5.78
81		o-Xylene	1.056	1.043	1.2	102	0.00	6.07
82		Styrene	0.741	0.770	-3.9	99	0.00	6.10
			Amount	Calc.	%Drift			
83	P	Bromoform	40.000	40.842	-2.1	100	0.00	6.11
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.168	1.198	-2.6	102	0.00	6.30
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	7.33
86	S	4-Bromofluorobenzene	0.764	0.764	0.0	103	0.00	6.49
87		cis-1,4-Dichloro-2-butene	0.291	0.292	-0.3	101	0.00	6.52
88		n-Propylbenzene	3.426	3.356	2.0	102	0.00	6.61
89		Bromobenzene	0.617	0.553	10.4	96	0.00	6.57
90	P	1,1,2,2-Tetrachloroethane	0.963	0.898	6.7	100	0.00	6.63
91		1,3,5-Trimethylbenzene	2.281	2.245	1.6	100	0.00	6.75
92		2-Chlorotoluene	2.037	1.947	4.4	102	0.00	6.71
93		trans-1,4-Dichloro-2-Bute	0.346	0.363	-4.9	109	0.00	6.76
94		1,2,3-Trichloropropane	0.338	0.290	14.2	94	0.00	6.72
			Amount	Calc.	%Drift			
95		Cyclohexanone	200.000	205.819	-2.9	109	0.00	6.75
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	2.133	2.056	3.6	102	0.00	6.83
97		tert-Butylbenzene	1.291	1.283	0.6	103	0.00	6.99
98		a-Methyl styrene		----------NA----------				
99		1,2,4-Trimethylbenzene	2.219	2.194	1.1	102	0.00	7.05
			Amount	Calc.	%Drift			
100		Pentachloroethane	40.000	42.396	-6.0	107	0.00	6.99
			AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3621-ICV3621
Lab FileID: 1P94968.D

101	sec-Butylbenzene	2.494	2.609	-4.6	108	0.00	7.13
102	4-Isopropyltoluene	2.084	2.242	-7.6	108	0.00	7.24
103	1,3-Dichlorobenzene	1.131	1.094	3.3	101	0.00	7.28
104	1,2,3-Trimethylbenzene	2.199	2.185	0.6	104	0.00	7.37
105	1,4-Dichlorobenzene	1.172	1.109	5.4	100	0.00	7.34
106	n-Butylbenzene	1.084	1.058	2.4	100	0.00	7.56
		Amount	Calc.	%Drift			
107	Benzyl Chloride	40.000	37.931	5.2	92	0.00	7.52
		AvgRF	CCRF	%Dev			
108	1,2-Dichlorobenzene	1.061	1.014	4.4	100	0.00	7.65
109	1,2-Dibromo-3-Chloropropa	0.215	0.216	-0.5	101	0.00	8.21
110	Hexachlorobutadiene	0.195	0.212	-8.7	118	0.00	8.69
111	1,2,4-Trichlorobenzene	0.578	0.599	-3.6	110	0.00	8.68
112	Naphthalene	2.545	2.706	-6.3	108	0.00	8.88
113	1,2,3-Trichlorobenzene	0.534	0.566	-6.0	111	0.00	9.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1P94958.D V1P_2022-11-04.M Fri Nov 04 16:30:53 2022

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3621-ICV3621
Lab FileID: 1P94970.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2022-11-04\1P94970.D Vial: 12
Acq On : 4 Nov 2022 4:05 pm Operator: courtnef
Sample : ICV3621-4 Inst : MSVOA13
Misc : MS52500,V1P3621,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V1P_2022-11-04.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Nov 04 16:23:46 2022
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	111	0.00	3.72
2	Dichlorodifluoromethane		NA				
	----------	Amount	Calc.	%Drift	----------		
3 P	Chloromethane		NA				
	----------	AvgRF	CCRF	%Dev	----------		
4	1,3-butadiene		NA				
5 C	Vinyl Chloride		NA				
	----------	Amount	Calc.	%Drift	----------		
6	Bromomethane		NA				
7	Chloroethane		NA				
8	Trichlorofluoromethane	25.000	24.961	0.2	112	0.00	1.67
9	Ethyl Ether		NA				
10	Ethanol		NA				
	----------	AvgRF	CCRF	%Dev	----------		
11	1,2-Dichlorotrifluoroetha		NA				
12 C	1,1-Dichloroethene		NA				
13	Freon 113		NA				
	----------	Amount	Calc.	%Drift	----------		
14	Carbon Disulfide		NA				
15	Iodomethane	25.000	31.365	-25.5#	132	0.00	2.05
	----------	AvgRF	CCRF	%Dev	----------		
16	Acrolein		NA				
17	Allyl chloride		NA				
	----------	Amount	Calc.	%Drift	----------		
18	Methylene Chloride		NA				
19	Acetone		NA				
	----------	AvgRF	CCRF	%Dev	----------		
20	Methyl acetate		NA				
21	trans-1,2-Dichloroethene		NA				
22	Hexane		NA				
23	Methyl Tert Butyl Ether		NA				
	----------	Amount	Calc.	%Drift	----------		
24	Tert Butyl Alcohol		NA				

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3621-ICV3621
Lab FileID: 1P94970.D

25		Acetonitrile	250.000	222.708	10.9	98	0.00	2.55	
			AvgRF	CCRF	%Dev				
26		Di-isopropyl ether			NA				
27		Chloroprene			NA				
28	P	1,1-Dichloroethane			NA				
29		Acrylonitrile			NA				
30		ETBE			NA				
31		Vinyl acetate			NA				
32		cis-1,2-Dichloroethene			NA				
33		2,2-Dichloropropane			NA				
34		Bromochloromethane			NA				
35		Cyclohexane			NA				
36	C	Chloroform			NA				
			Amount	Calc.	%Drift				
37		Ethyl acetate			NA				
38		Tetrahydrofuran			NA				
			AvgRF	CCRF	%Dev				
39	S	Dibromofluoromethane	0.208	0.217	-4.3	116	0.00	3.26	
40		Carbon Tetrachloride			NA				
41		1,1,1-Trichloroethane			NA				
			Amount	Calc.	%Drift				
42		2-Butanone			NA				
			AvgRF	CCRF	%Dev				
43		1,1-Dichloropropene			NA				
44		tert-Butyl formate			NA				
45		Propionitrile			NA				
46		Methacrylonitrile			NA				
47		Benzene			NA				
48		TAME			NA				
49	S	1,2-Dichloroethane-d4	0.300	0.315	-5.0	117	0.00	3.55	
50		Isobutyl alcohol			NA				
51		1,2-Dichloroethane			NA				
52		Tert Amyl Alcohol			NA				
53		Trichloroethene			NA				
54		Methylcyclohexane			NA				
55		Dibromomethane			NA				
56	C	1,2-Dichloropropane			NA				
57		Bromodichloromethane			NA				
58		Methyl methacrylate			NA				
			Amount	Calc.	%Drift				
59		1,4-Dioxane	500.000	451.988	9.6	99	0.00	4.25	
60		2-Chloroethyl vinyl ether	125.000	125.146	-0.1	106	0.00	4.48	
			AvgRF	CCRF	%Dev				
61		cis-1,3-Dichloropropene			NA				
62	I	Chlorobenzene-d5	1.000	1.000	0.0	111	0.00	5.64	
63	S	Toluene-d8	1.467	1.478	-0.7	113	0.00	4.64	
64	C	Toluene			NA				
			Amount	Calc.	%Drift				
65		2-Nitropropane			NA				
66		4-Methyl-2-pentanone			NA				

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3621-ICV3621
Lab FileID: 1P94970.D

			AvgRF	CCRF	%Dev			
67		trans-1,3-Dichloropropene		NA				
68		Tetrachloroethene		NA				
			Amount	Calc.	%Drift			
69		Ethyl methacrylate		NA				
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane		NA				
			Amount	Calc.	%Drift			
71		Dibromochloromethane		NA				
			AvgRF	CCRF	%Dev			
72		1,3-Dichloropropane		NA				
73		1,2-Dibromoethane		NA				
			Amount	Calc.	%Drift			
74		3,3-dimethyl-1-butanol	1250.000	1253.336	-0.3	110	0.00	5.42
75		2-hexanone		NA				
76		1-Chlorohexane		NA				
			AvgRF	CCRF	%Dev			
77	C	Ethylbenzene		NA				
78	P	Chlorobenzene		NA				
79		1,1,1,2-Tetrachloroethane		NA				
80		m,p-Xylene		NA				
81		o-Xylene		NA				
82		Styrene		NA				
			Amount	Calc.	%Drift			
83	P	Bromoform		NA				
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene		NA				
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00	7.33
86	S	4-Bromofluorobenzene	0.764	0.762	0.3	113	0.00	6.50
87		cis-1,4-Dichloro-2-butene		NA				
88		n-Propylbenzene		NA				
89		Bromobenzene		NA				
90	P	1,1,2,2-Tetrachloroethane		NA				
91		1,3,5-Trimethylbenzene		NA				
92		2-Chlorotoluene		NA				
93		trans-1,4-Dichloro-2-Bute		NA				
94		1,2,3-Trichloropropane		NA				
			Amount	Calc.	%Drift			
95		Cyclohexanone		NA				
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene		NA				
97		tert-Butylbenzene		NA				
98		a-Methyl styrene		NA				
99		1,2,4-Trimethylbenzene		NA				
			Amount	Calc.	%Drift			
100		Pentachloroethane		NA				
			AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3621-ICV3621
Lab FileID: 1P94970.D

101	sec-Butylbenzene	----------NA----------	
102	4-Isopropyltoluene	----------NA----------	
103	1,3-Dichlorobenzene	----------NA----------	
104	1,2,3-Trimethylbenzene	----------NA----------	
105	1,4-Dichlorobenzene	----------NA----------	
106	n-Butylbenzene	----------NA----------	
	---------- Amount	Calc.	%Drift ----------
107	Benzyl Chloride	----------NA----------	
	---------- AvgRF	CCRF	%Dev ----------
108	1,2-Dichlorobenzene	----------NA----------	
109	1,2-Dibromo-3-Chloropropa	----------NA----------	
110	Hexachlorobutadiene	----------NA----------	
111	1,2,4-Trichlorobenzene	----------NA----------	
112	Naphthalene	----------NA----------	
113	1,2,3-Trichlorobenzene	----------NA----------	

(#) = Out of Range SPCC's out = 3 CCC's out = 6
1P94956.D V1P_2022-11-04.M Fri Nov 04 16:31:59 2022

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3644-CC3621
Lab FileID: 1P96224.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2022-12-12\1P96224.D Vial: 2
Acq On : 12 Dec 2022 10:02 am Operator: courtnef
Sample : CC3621-5 Inst : MSVOA13
Misc : MS52806,V1P3644,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V1P_2022-11-04.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Nov 04 16:23:46 2022
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	68	0.00	3.71
2	Dichlorodifluoromethane	0.177	0.240	-35.6#	96	0.00	1.12
		Amount	Calc.	%Drift			
3 P	Chloromethane	40.000	37.993	5.0	67	0.00	1.24
		AvgRF	CCRF	%Dev			
4	1,3-butadiene	0.239	0.187	21.8#	56	0.00	1.31
5 C	Vinyl Chloride	0.221	0.212	4.1	69	0.00	1.30
		Amount	Calc.	%Drift			
6	Bromomethane	40.000	199.937	-399.8#	228	0.00	1.50
7	Chloroethane	40.000	49.181	-23.0#	89	0.00	1.58
8	Trichlorofluoromethane	40.000	45.499	-13.7	75	0.00	1.67
9	Ethyl Ether	40.000	41.981	-5.0	70	0.00	1.87
10	Ethanol	800.000	666.835	16.6	58	0.00	1.96
		AvgRF	CCRF	%Dev			
11	1,2-Dichlorotrifluoroetha	0.239	0.256	-7.1	71	0.00	1.97
12 C	1,1-Dichloroethene	0.286	0.323	-12.9	73	0.00	1.97
13	Freon 113	0.164	0.207	-26.2#	83	0.00	2.01
		Amount	Calc.	%Drift			
14	Carbon Disulfide	40.000	39.848	0.4	70	0.00	1.99
15	Iodomethane	40.000	254.455	-536.1#	458	0.00	2.06
		AvgRF	CCRF	%Dev			
16	Acrolein	0.063	0.067	-6.3	75	0.00	2.15
17	Allyl chloride	0.232	0.324	-39.7#	96	0.00	2.24
		Amount	Calc.	%Drift			
18	Methylene Chloride	40.000	36.611	8.5	55	0.00	2.30
19	Acetone	200.000	183.305	8.3	64	0.00	2.31
		AvgRF	CCRF	%Dev			
20	Methyl acetate	0.296	0.288	2.7	68	0.00	2.39
21	trans-1,2-Dichloroethene	0.274	0.315	-15.0	79	0.00	2.40
22	Hexane	0.151	0.181	-19.9	81	0.00	2.46
23	Methyl Tert Butyl Ether	0.647	0.705	-9.0	73	0.00	2.47
		Amount	Calc.	%Drift			
24	Tert Butyl Alcohol	400.000	363.956	9.0	63	0.00	2.51

Continuing Calibration Summary

Job Number: FC1200 **Sample:** V1P3644-CC3621
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 1P96224.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

25		Acetonitrile	400.000	435.096	-8.8	73	0.00	2.55
			AvgRF	CCRF	%Dev			
26		Di-isopropyl ether	0.670	0.721	-7.6	74	0.00	2.68
27		Chloroprene	1.003	0.957	4.6	67	0.00	2.73
28	P	1,1-Dichloroethane	0.353	0.396	-12.2	76	0.00	2.73
29		Acrylonitrile	0.132	0.124	6.1	67	0.00	2.73
30		ETBE	0.653	0.705	-8.0	74	0.00	2.88
31		Vinyl acetate	0.506	0.528	-4.3	72	0.00	2.86
32		cis-1,2-Dichloroethene	0.195	0.222	-13.8	78	0.00	3.02
33		2,2-Dichloropropane	0.293	0.350	-19.5	82	0.00	3.08
34		Bromochloromethane	0.079	0.087	-10.1	77	0.00	3.12
35		Cyclohexane	0.319	0.368	-15.4	75	0.00	3.16
36	C	Chloroform	0.348	0.399	-14.7	79	0.00	3.17
			Amount	Calc.	%Drift			
37		Ethyl acetate	200.000	203.423	-1.7	70	0.00	3.22
38		Tetrahydrofuran	40.000	40.428	-1.1	68	0.00	3.25
			AvgRF	CCRF	%Dev			
39	S	Dibromofluoromethane	0.208	0.225	-8.2	72	0.00	3.26
40		Carbon Tetrachloride	0.210	0.277	-31.9#	87	0.00	3.26
41		1,1,1-Trichloroethane	0.290	0.340	-17.2	79	0.00	3.29
			Amount	Calc.	%Drift			
42		2-Butanone	200.000	197.804	1.1	67	0.00	3.31
			AvgRF	CCRF	%Dev			
43		1,1-Dichloropropene	0.267	0.307	-15.0	79	0.00	3.36
44		tert-Butyl formate	0.152	0.198	-30.3#	84	0.00	3.41
45		Propionitrile	0.058	0.057	1.7	68	0.00	3.46
46		Methacrylonitrile	0.207	0.204	1.4	63	0.00	3.48
47		Benzene	0.853	0.887	-4.0	71	0.00	3.49
48		TAME	0.607	0.658	-8.4	73	0.00	3.56
49	S	1,2-Dichloroethane-d4	0.300	0.312	-4.0	68	0.00	3.55
50		Isobutyl alcohol	0.035	0.033	5.7	64	0.00	3.59
51		1,2-Dichloroethane	0.285	0.304	-6.7	74	0.00	3.58
52		Tert Amyl Alcohol	0.053	0.050	5.7	65	0.00	3.65
53		Trichloroethene	0.201	0.221	-10.0	75	0.00	3.82
54		Methylcyclohexane	0.287	0.341	-18.8	78	0.00	3.84
55		Dibromomethane	0.114	0.126	-10.5	77	0.00	4.04
56	C	1,2-Dichloropropane	0.200	0.223	-11.5	77	0.00	4.11
57		Bromodichloromethane	0.214	0.267	-24.8#	81	0.00	4.14
58		Methyl methacrylate	0.231	0.241	-4.3	67	0.00	4.23
			Amount	Calc.	%Drift			
59		1,4-Dioxane	800.000	834.315	-4.3	73	0.00	4.26
60		2-Chloroethyl vinyl ether	200.000	506.508	-153.3#	196	0.00	4.47
			AvgRF	CCRF	%Dev			
61		cis-1,3-Dichloropropene	0.282	0.351	-24.5#	81	0.00	4.52
62	I	Chlorobenzene-d5	1.000	1.000	0.0	68	0.00	5.64
63	S	Toluene-d8	1.467	1.453	1.0	68	0.00	4.65
64	C	Toluene	1.320	1.422	-7.7	75	0.00	4.68
			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	203.887	-1.9	67	0.00	4.77
66		4-Methyl-2-pentanone	200.000	198.777	0.6	67	0.00	4.89

Continuing Calibration Summary

Job Number: FC1200 **Sample:** V1P3644-CC3621
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 1P96224.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

			AvgRF	CCRF	%Dev			
67		trans-1,3-Dichloropropene	0.384	0.464	-20.8#	78	0.00	4.92
68		Tetrachloroethene	0.258	0.314	-21.7#	82	0.00	4.93
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	44.121	-10.3	73	0.00	5.03
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.226	0.246	-8.8	76	0.00	5.02
			Amount	Calc.	%Drift			
71		Dibromochloromethane	40.000	50.618	-26.5#	85	0.00	5.14
			AvgRF	CCRF	%Dev			
72		1,3-Dichloropropane	0.503	0.548	-8.9	76	0.00	5.19
73		1,2-Dibromoethane	0.256	0.286	-11.7	75	0.00	5.29
			Amount	Calc.	%Drift			
74		3,3-dimethyl-1-butanol	2000.000	1977.894	1.1	64	0.00	5.42
75		2-hexanone	200.000	185.382	7.3	62	0.00	5.43
76		1-Chlorohexane	40.000	42.774	-6.9	72	0.00	5.64
			AvgRF	CCRF	%Dev			
77	C	Ethylbenzene	1.382	1.489	-7.7	75	0.00	5.68
78	P	Chlorobenzene	0.744	0.773	-3.9	73	0.00	5.65
79		1,1,1,2-Tetrachloroethane	0.223	0.280	-25.6#	82	0.00	5.69
80		m,p-Xylene	1.069	1.149	-7.5	72	0.00	5.78
81		o-Xylene	1.056	1.116	-5.7	73	0.00	6.07
82		Styrene	0.741	0.857	-15.7	74	0.00	6.10
			Amount	Calc.	%Drift			
83	P	Bromoform	40.000	57.169	-42.9#	100	0.00	6.11
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.168	1.296	-11.0	73	0.00	6.30
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	72	0.00	7.33
86	S	4-Bromofluorobenzene	0.764	0.791	-3.5	75	0.00	6.49
87		cis-1,4-Dichloro-2-butene	0.291	0.349	-19.9	85	0.00	6.52
88		n-Propylbenzene	3.426	3.469	-1.3	74	0.00	6.61
89		Bromobenzene	0.617	0.662	-7.3	81	0.00	6.56
90	P	1,1,2,2-Tetrachloroethane	0.963	0.963	0.0	76	0.00	6.63
91		1,3,5-Trimethylbenzene	2.281	2.332	-2.2	73	0.00	6.75
92		2-Chlorotoluene	2.037	2.032	0.2	75	0.00	6.71
93		trans-1,4-Dichloro-2-Bute	0.346	0.379	-9.5	80	0.00	6.75
94		1,2,3-Trichloropropane	0.338	0.323	4.4	74	0.00	6.72
			Amount	Calc.	%Drift			
95		Cyclohexanone	200.000	176.731	11.6	66	0.00	6.74
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	2.133	2.136	-0.1	75	0.00	6.83
97		tert-Butylbenzene	1.291	1.305	-1.1	74	0.00	6.99
98		a-Methyl styrene		----------NA----------				
99		1,2,4-Trimethylbenzene	2.219	2.186	1.5	71	0.00	7.04
			Amount	Calc.	%Drift			
100		Pentachloroethane	40.000	50.900	-27.2#	92	0.00	6.99
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3644-CC3621
Lab FileID: 1P96224.D

101	sec-Butylbenzene	2.494	2.565	-2.8	75	0.00	7.13
102	4-Isopropyltoluene	2.084	2.194	-5.3	75	0.00	7.24
103	1,3-Dichlorobenzene	1.131	1.216	-7.5	79	0.00	7.27
104	1,2,3-Trimethylbenzene	2.199	2.164	1.6	73	0.00	7.37
105	1,4-Dichlorobenzene	1.172	1.233	-5.2	79	0.00	7.34
106	n-Butylbenzene	1.084	1.125	-3.8	75	0.00	7.56
		Amount	Calc.	%Drift			
107	Benzyl Chloride	40.000	48.150	-20.4#	86	0.00	7.52
		AvgRF	CCRF	%Dev			
108	1,2-Dichlorobenzene	1.061	1.134	-6.9	79	0.00	7.65
109	1,2-Dibromo-3-Chloropropa	0.215	0.243	-13.0	80	0.00	8.20
110	Hexachlorobutadiene	0.195	0.274	-40.5#	108	0.00	8.68
111	1,2,4-Trichlorobenzene	0.578	0.639	-10.6	82	0.00	8.68
112	Naphthalene	2.545	2.221	12.7	62	0.00	8.88
113	1,2,3-Trichlorobenzene	0.534	0.633	-18.5	88	0.00	9.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1P94958.D V1P_2022-11-04.M Mon Dec 12 10:41:40 2022

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3644-ECC3621
Lab FileID: 1P96268.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\Je...022\V1P3644\1P96268.D Vial: 24
Acq On : 12 Dec 2022 9:42 pm Operator: courtnef
Sample : ECC3621-5 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\met...V1P_2022-11-04.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Nov 04 16:23:46 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Fluorobenzene	1.000	1.000	0.0	65	0.00	3.72
2	Dichlorodifluoromethane	0.177	0.247	-39.5	94	0.00	1.12
	----------	True	Calc.	% Drift	----------		
3 P	Chloromethane	40.000	37.858	5.4	63	0.00	1.24
	----------	AvgRF	CCRF	% Dev	----------		
4	1,3-butadiene	0.239	0.203	15.1	58	0.00	1.31
5 C	Vinyl Chloride	0.221	0.219	0.9	68	0.00	1.30
	----------	True	Calc.	% Drift	----------		
6	Bromomethane	40.000	124.530	-211.3#	173	0.00	1.51
7	Chloroethane	40.000	50.028	-25.1	86	0.00	1.58
8	Trichlorofluoromethane	40.000	44.713	-11.8	71	0.00	1.67
9	Ethyl Ether	40.000	35.293	11.8	58	0.00	1.87
10	Ethanol	800.000	614.751	23.2	51	0.01	1.97
	----------	AvgRF	CCRF	% Dev	----------		
11	1,2-Dichlorotrifluoroetha	0.239	0.237	0.8	62	0.00	1.97
12 C	1,1-Dichloroethene	0.286	0.310	-8.4	66	0.00	1.98
13	Freon 113	0.164	0.191	-16.5	72	0.00	2.01
	----------	True	Calc.	% Drift	----------		
14	Carbon Disulfide	40.000	36.636	8.4	62	0.00	1.99
15	Iodomethane	40.000	187.279	-368.2#	321	0.00	2.06
	----------	AvgRF	CCRF	% Dev	----------		
16	Acrolein	0.063	0.055	12.7	58	0.00	2.15
17	Allyl chloride	0.232	0.300	-29.3	85	0.00	2.24
	----------	True	Calc.	% Drift	----------		
18	Methylene Chloride	40.000	33.815	15.5	48	0.00	2.30
19	Acetone	200.000	182.564	8.7	61	0.00	2.31
	----------	AvgRF	CCRF	% Dev	----------		
20	Methyl acetate	0.296	0.256	13.5	58	0.00	2.40
21	trans-1,2-Dichloroethene	0.274	0.298	-8.8	71	0.00	2.40
22	Hexane	0.151	0.146	3.3	62	0.00	2.46
23	Methyl Tert Butyl Ether	0.647	0.707	-9.3	70	0.00	2.47
	----------	True	Calc.	% Drift	----------		
24	Tert Butyl Alcohol	400.000	364.669	8.8	60	0.00	2.51

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3644-ECC3621
Lab FileID: 1P96268.D

25		Acetonitrile	400.000	551.452	-37.9	83	0.00	2.55
		----------	AvgRF	CCRF	% Dev	----------		
26		Di-isopropyl ether	0.670	0.654	2.4	64	0.00	2.68
27		Chloroprene	1.003	0.894	10.9	59	0.00	2.72
28	P	1,1-Dichloroethane	0.353	0.378	-7.1	69	0.00	2.72
29		Acrylonitrile	0.132	0.114	13.6	58	0.00	2.72
30		ETBE	0.653	0.672	-2.9	67	0.00	2.88
31		Vinyl acetate	0.506	0.464	8.3	61	0.00	2.86
32		cis-1,2-Dichloroethene	0.195	0.215	-10.3	72	0.00	3.02
33		2,2-Dichloropropane	0.293	0.310	-5.8	69	0.00	3.08
34		Bromochloromethane	0.079	0.087	-10.1	73	0.00	3.12
35		Cyclohexane	0.319	0.330	-3.4	64	0.00	3.16
36	C	Chloroform	0.348	0.390	-12.1	73	0.00	3.16
		----------	True	Calc.	% Drift	----------		
37		Ethyl acetate	200.000	185.502	7.2	61	0.00	3.22
38		Tetrahydrofuran	40.000	34.108	14.7	55	0.00	3.25
		----------	AvgRF	CCRF	% Dev	----------		
39	S	Dibromofluoromethane	0.208	0.223	-7.2	68	0.00	3.26
40		Carbon Tetrachloride	0.210	0.290	-38.1	87	0.00	3.26
41		1,1,1-Trichloroethane	0.290	0.356	-22.8	79	0.00	3.29
		----------	True	Calc.	% Drift	----------		
42		2-Butanone	200.000	188.397	5.8	61	0.00	3.31
		----------	AvgRF	CCRF	% Dev	----------		
43		1,1-Dichloropropene	0.267	0.298	-11.6	73	0.00	3.36
44		tert-Butyl formate	0.152	0.184	-21.1	75	0.00	3.40
45		Propionitrile	0.058	0.055	5.2	63	0.00	3.46
46		Methacrylonitrile	0.207	0.187	9.7	56	0.00	3.48
47		Benzene	0.853	0.822	3.6	63	0.00	3.49
48		TAME	0.607	0.641	-5.6	67	0.00	3.56
49	S	1,2-Dichloroethane-d4	0.300	0.316	-5.3	66	0.00	3.55
50		Isobutyl alcohol	0.035	0.022	37.1	40#	0.00	3.59
51		1,2-Dichloroethane	0.285	0.311	-9.1	72	0.00	3.59
52		Tert Amyl Alcohol	0.053	0.049	7.5	61	0.00	3.65
53		Trichloroethene	0.201	0.220	-9.5	72	0.00	3.82
54		Methylcyclohexane	0.287	0.321	-11.8	70	0.00	3.84
55		Dibromomethane	0.114	0.127	-11.4	73	0.00	4.05
56	C	1,2-Dichloropropane	0.200	0.224	-12.0	74	0.00	4.11
57		Bromodichloromethane	0.214	0.272	-27.1	79	0.00	4.14
58		Methyl methacrylate	0.231	0.254	-10.0	67	0.00	4.23
		----------	True	Calc.	% Drift	----------		
59		1,4-Dioxane	800.000	915.703	-14.5	76	0.00	4.26
60		2-Chloroethyl vinyl ether	200.000	479.735	-139.9#	175	0.00	4.48
		----------	AvgRF	CCRF	% Dev	----------		
61		cis-1,3-Dichloropropene	0.282	0.346	-22.7	76	0.00	4.52
62	I	Chlorobenzene-d5	1.000	1.000	0.0	68	0.00	5.64
63	S	Toluene-d8	1.467	1.440	1.8	68	0.00	4.64
64	C	Toluene	1.320	1.375	-4.2	73	0.00	4.68
		----------	True	Calc.	% Drift	----------		
65		2-Nitropropane	200.000	193.325	3.3	64	0.00	4.77
66		4-Methyl-2-pentanone	200.000	200.564	-0.3	68	0.00	4.88

Continuing Calibration Summary

Job Number: FC1200 **Sample:** V1P3644-ECC3621
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 1P96268.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

			AvgRF	CCRF	% Dev			
67		trans-1,3-Dichloropropene	0.384	0.447	-16.4	76	0.00	4.92
68		Tetrachloroethene	0.258	0.331	-28.3	87	0.00	4.93
			True	Calc.	% Drift			
69		Ethyl methacrylate	40.000	44.905	-12.3	76	0.00	5.03
			AvgRF	CCRF	% Dev			
70		1,1,2-Trichloroethane	0.226	0.239	-5.8	74	0.00	5.02
			True	Calc.	% Drift			
71		Dibromochloromethane	40.000	47.978	-19.9	81	0.00	5.14
			AvgRF	CCRF	% Dev			
72		1,3-Dichloropropane	0.503	0.528	-5.0	74	0.00	5.19
73		1,2-Dibromoethane	0.256	0.285	-11.3	75	0.00	5.29
			True	Calc.	% Drift			
74		3,3-dimethyl-1-butanol	2000.000	1824.655	8.8	60	0.00	5.42
75		2-hexanone	200.000	177.755	11.1	60	0.00	5.43
76		1-Chlorohexane	40.000	39.517	1.2	67	0.00	5.65
			AvgRF	CCRF	% Dev			
77	C	Ethylbenzene	1.382	1.450	-4.9	74	0.00	5.68
78	P	Chlorobenzene	0.744	0.750	-0.8	71	0.00	5.65
79		1,1,1,2-Tetrachloroethane	0.223	0.270	-21.1	80	0.00	5.70
80		m,p-Xylene	1.069	1.114	-4.2	71	0.00	5.78
81		o-Xylene	1.056	1.107	-4.8	73	0.00	6.07
82		Styrene	0.741	0.819	-10.5	71	0.00	6.10
			True	Calc.	% Drift			
83	P	Bromoform	40.000	52.450	-31.1	91	0.00	6.11
			AvgRF	CCRF	% Dev			
84		Isopropylbenzene	1.168	1.257	-7.6	72	0.00	6.30
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	72	0.00	7.33
86	S	4-Bromofluorobenzene	0.764	0.792	-3.7	75	0.00	6.49
87		cis-1,4-Dichloro-2-butene	0.291	0.286	1.7	70	0.00	6.52
88		n-Propylbenzene	3.426	3.379	1.4	73	0.00	6.61
89		Bromobenzene	0.617	0.651	-5.5	80	0.00	6.57
90	P	1,1,2,2-Tetrachloroethane	0.963	0.943	2.1	74	0.00	6.63
91		1,3,5-Trimethylbenzene	2.281	2.288	-0.3	72	0.00	6.75
92		2-Chlorotoluene	2.037	2.008	1.4	74	0.00	6.71
93		trans-1,4-Dichloro-2-Bute	0.346	0.311	10.1	66	0.00	6.76
94		1,2,3-Trichloropropane	0.338	0.323	4.4	74	0.00	6.72
			True	Calc.	% Drift			
95		Cyclohexanone	200.000	183.885	8.1	69	0.00	6.75
			AvgRF	CCRF	% Dev			
96		4-Chlorotoluene	2.133	2.079	2.5	73	0.00	6.83
97		tert-Butylbenzene	1.291	1.276	1.2	72	0.00	6.99
98		a-Methyl styrene	0.000	0.000	0.0	0#	0.00	7.13
99		1,2,4-Trimethylbenzene	2.219	2.145	3.3	70	0.00	7.04
			True	Calc.	% Drift			
100		Pentachloroethane	40.000	47.727	-19.3	86	0.00	6.99
			AvgRF	CCRF	% Dev			

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3644-ECC3621
Lab FileID: 1P96268.D

101	sec-Butylbenzene	2.494	2.477	0.7	72	0.00	7.13
102	4-Isopropyltoluene	2.084	2.154	-3.4	73	0.00	7.24
103	1,3-Dichlorobenzene	1.131	1.164	-2.9	76	0.00	7.27
104	1,2,3-Trimethylbenzene	2.199	2.136	2.9	72	0.00	7.37
105	1,4-Dichlorobenzene	1.172	1.195	-2.0	76	0.00	7.34
106	n-Butylbenzene	1.084	1.063	1.9	71	0.00	7.56
	----------	True	Calc.	% Drift	----------		
107	Benzyl Chloride	40.000	38.806	3.0	67	0.00	7.52
	----------	AvgRF	CCRF	% Dev	----------		
108	1,2-Dichlorobenzene	1.061	1.105	-4.1	77	0.00	7.65
109	1,2-Dibromo-3-Chloropropa	0.215	0.238	-10.7	78	0.00	8.20
110	Hexachlorobutadiene	0.195	0.260	-33.3	103	0.00	8.68
111	1,2,4-Trichlorobenzene	0.578	0.618	-6.9	80	0.00	8.68
112	Naphthalene	2.545	2.222	12.7	63	0.00	8.88
113	1,2,3-Trichlorobenzene	0.534	0.621	-16.3	86	0.00	9.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1P94958.D V1P_2022-11-04.M Mon Dec 12 22:04:21 2022

Initial Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2A1677-ICC1677
Lab FileID: 2A42181.D

Response Factor Report MSVOA17

Method : C:\msdchem\1\MET...V2A_12-16-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration

Calibration Files
1 =2A42173.D 2 =2A42175.D 3 =2A42177.D 4 =2A42179.D
5 =2A42181.D 6 =2A42183.D 7 =2A42185.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.286	0.288	0.306	0.316	0.283	0.288	0.315	0.297	4.82
3)P Chloromethane	0.284	0.256	0.242	0.248	0.227	0.223	0.239	0.246	8.39
4) 1,3-butadiene	0.172	0.198	0.184	0.179	0.138	0.156	0.164	0.170	11.61
5)C Vinyl Chloride	0.277	0.268	0.257	0.270	0.243	0.246	0.263	0.260	4.88
6) Bromomethane	0.193	0.177	0.172	0.178	0.163	0.158	0.168	0.173	6.61
7) Chloroethane	0.157	0.145	0.139	0.141	0.117	0.094	0.085	0.125	21.77
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9966									
Response Ratio = 0.00000 + 0.14593 *A + -0.03211 *A^2									
8) Trichlorofluorome	0.433	0.390	0.401	0.432	0.375	0.354	0.344	0.390	8.96
9) Ethyl Ether	0.212	0.194	0.189	0.190	0.160	0.178	0.184	0.187	8.37
10) Ethanol		0.003	0.003	0.003	0.003	0.003	0.003	0.003	9.26
11) 1,2-Dichlorotrifl	0.374	0.314	0.296	0.299	0.245	0.281	0.299	0.301	12.96
12)C 1,1-Dichloroethen	0.413	0.382	0.362	0.359	0.297	0.344	0.361	0.360	9.88
13) Freon 113	0.307	0.269	0.274	0.275	0.221	0.260	0.278	0.269	9.54
14) Carbon Disulfide	0.877	0.753	0.682	0.673	0.561	0.632	0.672	0.693	14.38
15) Iodomethane	0.410	0.391	0.383	0.403	0.353	0.382	0.407	0.390	5.06
16) Acrolein	0.047	0.072	0.053	0.054	0.050	0.053	0.053	0.054	14.67
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9964									
Response Ratio = 0.00000 + 0.05356 *A + -0.00010 *A^2									
17) Allyl chloride	0.227	0.336	0.293	0.293	0.250	0.275	0.275	0.278	12.54
18) Methylene Chlorid	0.766	0.390	0.322	0.292	0.260	0.273	0.278	0.369	48.90
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9956									
Response Ratio = 0.00000 + 0.30727 *A + -0.01893 *A^2									
19) Acetone	0.140	0.090	0.083	0.082	0.070	0.078	0.078	0.089	26.62
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9974									
Response Ratio = 0.00000 + 0.07982 *A + -0.00033 *A^2									
20) Methyl acetate	0.242	0.202	0.200	0.200	0.173	0.195	0.192	0.200	10.27
21) trans-1,2-Dichlor	0.418	0.370	0.351	0.348	0.292	0.334	0.351	0.352	10.74
22) Hexane	0.215	0.205	0.206	0.212	0.169	0.203	0.211	0.203	7.69
23) Methyl Tert Butyl	0.737	0.753	0.732	0.733	0.641	0.729	0.752	0.725	5.32
24) Acetonitrile	0.046	0.040	0.039	0.039	0.032	0.037	0.039	0.039	10.56
25) Tert Butyl Alcoho	0.049	0.056	0.053	0.053	0.045	0.050	0.050	0.051	6.90
26) Di-isopropyl ethe	0.694	0.632	0.628	0.637	0.547	0.626	0.648	0.630	6.88
27) Chloroprene	0.700	0.890	0.834	0.814	0.729	0.795	0.817	0.797	8.06
28)P 1,1-Dichloroethan	0.504	0.472	0.444	0.440	0.378	0.421	0.440	0.443	8.86
29) Acrylonitrile	0.093	0.109	0.104	0.100	0.092	0.099	0.099	0.099	5.88
30) ETBE	0.724	0.707	0.703	0.721	0.627	0.713	0.735	0.704	5.11
31) Vinyl acetate	0.363	0.441	0.435	0.425	0.401	0.433	0.436	0.419	6.68
32) cis-1,2-Dichloroe	0.336	0.304	0.294	0.281	0.244	0.270	0.284	0.288	9.99
33) 2,2-Dichloropropa	0.505	0.434	0.407	0.409	0.353	0.399	0.417	0.418	10.96
34) Bromochloromethan	0.171	0.157	0.150	0.147	0.125	0.139	0.143	0.148	9.79

Initial Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2A1677-ICC1677
Lab FileID: 2A42181.D

35)	Cyclohexane	0.453	0.390	0.393	0.397	0.318	0.377	0.396	0.389	10.24
36)C	Chloroform	0.577	0.530	0.491	0.490	0.425	0.472	0.497	0.498	9.49
37)	Ethyl acetate	0.241	0.280	0.269	0.259	0.242	0.263	0.263	0.259	5.38
38)	Tetrahydrofuran	0.132	0.095	0.088	0.086	0.071	0.079	0.086	0.091	21.75
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9951									
	Response Ratio = 0.00000 + 0.07878 *A + 0.00243 *A^2									
39)S	Dibromofluorometh	0.306	0.292	0.288	0.283	0.287	0.284	0.288	0.290	2.68
40)	Carbon Tetrachlor	0.447	0.386	0.368	0.373	0.321	0.372	0.391	0.380	9.80
41)	1,1,1-Trichloroet	0.507	0.456	0.431	0.435	0.364	0.416	0.440	0.436	9.89
42)	2-Butanone	0.191	0.159	0.148	0.151	0.131	0.139	0.137	0.151	13.42
43)	1,1-Dichloroprope	0.409	0.378	0.364	0.372	0.311	0.354	0.373	0.366	8.13
44)	tert-Butyl format	0.159	0.256	0.204	0.214	0.206	0.223	0.233	0.213	13.97
45)	Propionitrile	0.030	0.047	0.044	0.045	0.039	0.042	0.041	0.041	14.09
46)	Methacrylonitrile	0.110	0.168	0.161	0.168	0.144	0.156	0.156	0.152	13.46
47)	Benzene	1.178	1.085	1.029	1.055	0.898	0.993	1.045	1.040	8.22
48)	TAME	0.712	0.693	0.689	0.717	0.612	0.699	0.725	0.692	5.46
49)S	1,2-Dichloroethan	0.331	0.325	0.321	0.324	0.326	0.327	0.336	0.327	1.52
50)	1,2-Dichloroethan	0.428	0.360	0.357	0.364	0.316	0.349	0.357	0.362	9.23
51)	Isobutyl Alcohol	0.009	0.013	0.013	0.013	0.011	0.013		0.012	14.47
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9951									
	Response Ratio = 0.00000 + 0.01220 *A + 0.00002 *A^2									
52)	Tert Amyl Alcohol	0.034	0.035	0.037	0.037	0.032	0.036	0.037	0.036	4.95
53)	Trichloroethene	0.350	0.320	0.291	0.303	0.259	0.290	0.303	0.302	9.32
54)	Methylcyclohexane	0.487	0.442	0.443	0.462	0.368	0.445	0.474	0.446	8.56
55)	Dibromomethane	0.212	0.193	0.189	0.184	0.161	0.178	0.184	0.186	8.20
56)C	1,2-Dichloropropa	0.287	0.262	0.252	0.262	0.220	0.247	0.256	0.255	7.89
57)	Bromodichlorometh	0.359	0.356	0.346	0.355	0.307	0.346	0.360	0.347	5.37
58)	Methyl methacryla	0.145	0.232	0.224	0.234	0.201	0.217	0.224	0.211	14.69
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9976									
	Response Ratio = 0.00000 + 0.21419 *A + 0.00350 *A^2									
59)	1,4-Dioxane	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	8.34
60)	2-Chloroethyl vin	0.161	0.242	0.185	0.189	0.172	0.186	0.190	0.189	13.43
61)	cis-1,3-Dichlorop	0.419	0.429	0.409	0.423	0.367	0.418	0.430	0.413	5.26
62) I	Chlorobenzene-d5	----------ISTD----------								
63)S	Toluene-d8	1.262	1.261	1.256	1.256	1.251	1.266	1.264	1.260	0.43
64)C	Toluene	1.735	1.547	1.442	1.471	1.231	1.404	1.457	1.470	10.35
65)	2-Nitropropane	0.089	0.090	0.093	0.102	0.090	0.106	0.107	0.097	8.25
66)	4-Methyl-2-pentan	0.481	0.383	0.369	0.387	0.325	0.358	0.361	0.380	12.80
67)	trans-1,3-Dichlor	0.428	0.447	0.451	0.480	0.416	0.483	0.493	0.457	6.45
68)	Tetrachloroethene	0.474	0.447	0.416	0.445	0.365	0.430	0.454	0.433	8.08
69)	Ethyl methacrylat	0.255	0.440	0.423	0.450	0.384	0.433	0.441	0.404	17.12
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9974									
	Response Ratio = 0.00000 + 0.40683 *A + 0.01615 *A^2									
70)	1,1,2-Trichloroet	0.260	0.257	0.262	0.279	0.235	0.269	0.273	0.262	5.37
71)	Dibromochlorometh	0.343	0.351	0.351	0.379	0.329	0.390	0.401	0.363	7.37
72)	1,3-Dichloropropa	0.531	0.531	0.523	0.540	0.466	0.528	0.537	0.522	4.84
73)	1,2-Dibromoethane	0.367	0.347	0.348	0.367	0.316	0.362	0.369	0.354	5.37
74)	3,3-Dimethyl-1-Bu	0.048	0.065	0.052	0.054	0.049	0.053	0.054	0.053	10.81
75)	2-hexanone	0.427	0.408	0.370	0.386	0.328	0.350	0.349	0.374	9.42
76)	1-Chlorohexane	0.682	0.531	0.513	0.518	0.424	0.487	0.487	0.520	15.23
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9964									
	Response Ratio = 0.00000 + 0.48384 *A + -0.00090 *A^2									
77)C	Ethylbenzene	1.926	1.745	1.641	1.667	1.392	1.572	1.631	1.653	9.83
78)P	Chlorobenzene	1.140	1.026	0.963	0.984	0.839	0.940	0.967	0.980	9.29

Initial Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2A1677-ICC1677
Lab FileID: 2A42181.D

79)	1,1,1,2-Tetrachlo	0.346	0.333	0.326	0.354	0.304	0.355	0.373	0.342	6.66
80)	m,p-Xylene	1.514	1.390	1.304	1.347	1.128	1.274	1.309	1.324	8.85
81)	o-Xylene	1.509	1.397	1.337	1.362	1.162	1.302	1.336	1.344	7.76
82)	Styrene	1.083	1.086	1.048	1.087	0.927	1.039	1.060	1.047	5.37
83)P	Bromoform	0.224	0.230	0.244	0.269	0.236	0.283	0.292	0.254	10.69
84)	Isopropylbenzene	1.870	1.738	1.650	1.680	1.397	1.582	1.613	1.647	8.83
85) I	1,4-Dichlorobenzene-d	----------ISTD----------								
86)S	4-Bromofluorobenz	0.848	0.836	0.832	0.826	0.837	0.854	0.855	0.841	1.34
87)	cis-1,4-Dichloro-		0.255	0.236	0.258	0.230	0.268	0.279	0.254	7.31
88)	n-Propylbenzene	4.201	3.733	3.462	3.504	2.967	3.393	3.589	3.550	10.50
89)	Bromobenzene	0.889	0.866	0.802	0.807	0.699	0.802	0.834	0.814	7.49
90)P	1,1,2,2-Tetrachlo	0.891	0.818	0.827	0.840	0.726	0.840	0.868	0.830	6.26
91)	1,3,5-Trimethylbe	2.835	2.703	2.463	2.508	2.157	2.511	2.620	2.542	8.41
92)	2-Chlorotoluene	2.303	2.102	1.980	2.008	1.724	1.966	2.068	2.022	8.59
93)	trans-1,4-Dichlor		0.288	0.277	0.297	0.255	0.288	0.295	0.283	5.53
94)	1,2,3-Trichloropr	0.264	0.267	0.260	0.265	0.229	0.267	0.272	0.261	5.52
95)	Cyclohexanone	0.031	0.031	0.029	0.027	0.026	0.029	0.029	0.029	6.49
96)	4-Chlorotoluene	2.380	2.226	2.042	2.077	1.798	2.066	2.146	2.105	8.52
97)	tert-Butylbenzene	1.683	1.493	1.410	1.439	1.207	1.401	1.449	1.440	9.77
98)	1,2,4-Trimethylbe	2.532	2.504	2.319	2.392	2.035	2.371	2.486	2.377	7.13
99)	Pentachloroethane	0.229	0.399	0.378	0.411	0.365	0.431	0.457	0.381	19.40

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9980
Response Ratio = 0.00000 + 0.35820 *A + 0.04875 *A^2

100)	sec-Butylbenzene	3.596	3.275	3.100	3.139	2.604	3.031	3.128	3.125	9.47
101)	4-Isopropyltoluen	3.044	2.908	2.670	2.715	2.284	2.658	2.763	2.720	8.73
102)	1,3-Dichlorobenze	1.637	1.552	1.460	1.495	1.271	1.452	1.491	1.480	7.56
103)	1,2,3-Trimethylbe	2.463	2.371	2.249	2.287	1.972	2.276	2.379	2.285	6.85
104)	1,4-Dichlorobenze	1.696	1.584	1.487	1.517	1.298	1.462	1.503	1.507	8.05
105)	n-Butylbenzene	1.469	1.375	1.315	1.316	1.111	1.286	1.349	1.317	8.26
106)	Benzyl Chloride	0.314	0.318	0.324	0.346	0.315	0.367	0.372	0.336	7.40
107)	1,2-Dichlorobenze	1.594	1.444	1.374	1.390	1.193	1.351	1.382	1.390	8.59
108)	1,2-Dibromo-3-Chl	0.176	0.181	0.183	0.178	0.161	0.182	0.189	0.178	4.88
109)	Hexachlorobutadie	0.609	0.571	0.535	0.544	0.449	0.531	0.560	0.543	9.07
110)	1,2,4-Trichlorobe	0.941	0.942	0.897	0.903	0.792	0.934	0.985	0.913	6.67
111)	Naphthalene	2.467	2.286	2.271	2.283	1.963	2.343	2.470	2.298	7.40
112)	1,2,3-Trichlorobe	0.935	0.871	0.853	0.860	0.756	0.894	0.930	0.871	6.92

(#) = Out of Range

V2A_12-16-2022.M Mon Dec 19 09:16:45 2022

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2A1677-ICV1677
Lab FileID: 2A42189.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\12-16-2022\2A42189.D Vial: 60
Acq On : 16 Dec 2022 3:19 pm Operator: joannel
Sample : ICV1677-5 Inst : MSVOA17
Misc : MS53004,V2A1677,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V2A_12-16-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Dec 16 15:31:38 2022
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	101	0.00	3.65
2		Dichlorodifluoromethane	0.297	0.294	1.0	105	0.00	1.05
3	P	Chloromethane	0.246	0.245	0.4	109	0.00	1.17
4		1,3-butadiene	0.170	0.219	-28.8#	161	0.00	1.23
5	C	Vinyl Chloride	0.260	0.274	-5.4	114	0.00	1.22
6		Bromomethane	0.173	0.168	2.9	104	0.00	1.42
			Amount	Calc.	%Drift			
7		Chloroethane	40.000	42.181	-5.5	108	0.00	1.50
			AvgRF	CCRF	%Dev			
8		Trichlorofluoromethane	0.390	0.437	-12.1	118	0.00	1.59
9		Ethyl Ether	0.187	0.172	8.0	109	0.00	1.78
10		Ethanol	0.003	0.003	0.0	104	0.00	1.86
11		1,2-Dichlorotrifluoroetha	0.301	0.267	11.3	110	0.00	1.88
12	C	1,1-Dichloroethene	0.360	0.356	1.1	122	0.00	1.89
13		Freon 113	0.269	0.266	1.1	122	0.00	1.92
14		Carbon Disulfide	0.693	0.709	-2.3	128	0.00	1.90
15		Iodomethane	0.390	0.419	-7.4	120	0.00	1.97
			Amount	Calc.	%Drift			
16		Acrolein	200.000	184.431	7.8	100	0.00	2.06
			AvgRF	CCRF	%Dev			
17		Allyl chloride	0.278	0.291	-4.7	118	0.00	2.15
			Amount	Calc.	%Drift			
18		Methylene Chloride	40.000	37.941	5.1	108	0.00	2.20
19		Acetone	200.000	205.170	-2.6	116	0.00	2.22
			AvgRF	CCRF	%Dev			
20		Methyl acetate	0.200	0.199	0.5	116	0.00	2.30
21		trans-1,2-Dichloroethene	0.352	0.335	4.8	116	0.00	2.31
22		Hexane	0.203	0.208	-2.5	125	0.00	2.37
23		Methyl Tert Butyl Ether	0.725	0.700	3.4	111	0.00	2.38
24		Acetonitrile	0.039	0.037	5.1	118	0.00	2.37
25		Tert Butyl Alcohol	0.051	0.046	9.8	103	0.00	2.41
26		Di-isopropyl ether	0.630	0.605	4.0	112	0.00	2.60
27		Chloroprene	0.797	0.854	-7.2	119	0.00	2.63
28	P	1,1-Dichloroethane	0.443	0.440	0.7	118	0.00	2.64
29		Acrylonitrile	0.099	0.104	-5.1	114	0.00	2.63
30		ETBE	0.704	0.673	4.4	109	0.00	2.80

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2A1677-ICV1677
Lab FileID: 2A42189.D

31		Vinyl acetate	0.419	0.481	-14.8	121	0.00	2.77
32		cis-1,2-Dichloroethene	0.288	0.279	3.1	116	0.00	2.93
33		2,2-Dichloropropane	0.418	0.385	7.9	111	0.00	3.00
34		Bromochloromethane	0.148	0.146	1.4	118	0.00	3.04
35		Cyclohexane	0.389	0.397	-2.1	127	0.00	3.08
36	C	Chloroform	0.498	0.473	5.0	113	0.00	3.09
37		Ethyl acetate	0.259	0.264	-1.9	111	0.00	3.15
			Amount	Calc.	%Drift			
38		Tetrahydrofuran	40.000	43.092	-7.7	125	0.00	3.17
			AvgRF	CCRF	%Dev			
39	S	Dibromofluoromethane	0.290	0.293	-1.0	103	0.00	3.19
40		Carbon Tetrachloride	0.380	0.393	-3.4	124	0.00	3.19
41		1,1,1-Trichloroethane	0.436	0.424	2.8	118	0.00	3.22
42		2-Butanone	0.151	0.140	7.3	108	0.00	3.24
43		1,1-Dichloropropene	0.366	0.351	4.1	114	0.00	3.29
44		tert-Butyl formate	0.213	0.160	24.9#	79	0.00	3.34
45		Propionitrile	0.041	0.042	-2.4	112	0.00	3.39
46		Methacrylonitrile	0.152	0.155	-2.0	110	0.00	3.41
47		Benzene	1.040	0.993	4.5	112	0.00	3.42
48		TAME	0.692	0.665	3.9	110	0.00	3.50
49	S	1,2-Dichloroethane-d4	0.327	0.334	-2.1	104	0.00	3.48
50		1,2-Dichloroethane	0.362	0.341	5.8	109	0.00	3.52
			Amount	Calc.	%Drift			
51		Isobutyl Alcohol	800.000	691.361	13.6	97	0.00	3.51
			AvgRF	CCRF	%Dev			
52		Tert Amyl Alcohol	0.036	0.034	5.6	106	0.00	3.58
53		Trichloroethene	0.302	0.293	3.0	114	0.00	3.76
54		Methylcyclohexane	0.446	0.457	-2.5	126	0.00	3.78
55		Dibromomethane	0.186	0.175	5.9	110	0.00	3.99
56	C	1,2-Dichloropropane	0.255	0.232	9.0	107	0.00	4.05
57		Bromodichloromethane	0.347	0.341	1.7	113	0.00	4.09
			Amount	Calc.	%Drift			
58		Methyl methacrylate	40.000	40.863	-2.2	112	0.00	4.19
			AvgRF	CCRF	%Dev			
59		1,4-Dioxane	0.003	0.003	0.0	110	0.00	4.20
60		2-Chloroethyl vinyl ether	0.189	0.180	4.8	106	0.00	4.44
61		cis-1,3-Dichloropropene	0.413	0.400	3.1	111	0.00	4.48
62	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	5.64
63	S	Toluene-d8	1.260	1.243	1.3	101	0.00	4.61
64	C	Toluene	1.470	1.368	6.9	113	0.00	4.64
65		2-Nitropropane	0.097	0.100	-3.1	113	0.00	4.74
66		4-Methyl-2-pentanone	0.380	0.340	10.5	107	0.00	4.86
67		trans-1,3-Dichloropropene	0.457	0.480	-5.0	118	0.00	4.89
68		Tetrachloroethene	0.433	0.416	3.9	116	0.00	4.91
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	37.978	5.1	105	0.00	5.01
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.262	0.255	2.7	110	0.00	4.99
71		Dibromochloromethane	0.363	0.351	3.3	108	0.00	5.12
72		1,3-Dichloropropane	0.522	0.475	9.0	104	0.00	5.17
73		1,2-Dibromoethane	0.354	0.343	3.1	110	0.00	5.27

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2A1677-ICV1677
Lab FileID: 2A42189.D

74		3,3-Dimethyl-1-Butanol	0.053	0.047	11.3	99	0.00	5.41
75		2-hexanone	0.374	0.337	9.9	105	0.00	5.42
		----------	Amount	Calc.	%Drift	----------		
76		1-Chlorohexane	40.000	40.809	-2.0	118	0.00	5.64
		----------	AvgRF	CCRF	%Dev	----------		
77	C	Ethylbenzene	1.653	1.558	5.7	114	0.00	5.67
78	P	Chlorobenzene	0.980	0.924	5.7	112	0.00	5.64
79		1,1,1,2-Tetrachloroethane	0.342	0.333	2.6	111	0.00	5.69
80		m,p-Xylene	1.324	1.264	4.5	114	0.00	5.78
81		o-Xylene	1.344	1.316	2.1	115	0.00	6.08
82		Styrene	1.047	1.014	3.2	111	0.00	6.12
83	P	Bromoform	0.254	0.260	-2.4	112	0.00	6.12
84		Isopropylbenzene	1.647	1.608	2.4	117	0.00	6.33
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	7.38
86	S	4-Bromofluorobenzene	0.841	0.824	2.0	102	0.00	6.51
87		cis-1,4-Dichloro-2-butene	0.254	0.225	11.4	102	0.00	6.55
88		n-Propylbenzene	3.550	3.349	5.7	117	0.00	6.64
89		Bromobenzene	0.814	0.728	10.6	108	0.00	6.59
90	P	1,1,2,2-Tetrachloroethane	0.830	0.767	7.6	109	0.00	6.66
91		1,3,5-Trimethylbenzene	2.542	2.331	8.3	112	0.00	6.79
92		2-Chlorotoluene	2.022	1.899	6.1	114	0.00	6.74
93		trans-1,4-Dichloro-2-Bute	0.283	0.277	2.1	113	0.00	6.79
94		1,2,3-Trichloropropane	0.261	0.228	12.6	103	0.00	6.75
95		Cyclohexanone	0.029	0.025	13.8	97	0.00	6.77
96		4-Chlorotoluene	2.105	1.995	5.2	115	0.00	6.87
97		tert-Butylbenzene	1.440	1.347	6.5	116	0.00	7.04
98		1,2,4-Trimethylbenzene	2.377	2.254	5.2	115	0.00	7.09
		----------	Amount	Calc.	%Drift	----------		
99		Pentachloroethane	40.000	40.745	-1.9	115	0.00	7.04
		----------	AvgRF	CCRF	%Dev	----------		
100		sec-Butylbenzene	3.125	3.062	2.0	122	0.00	7.18
101		4-Isopropyltoluene	2.720	2.675	1.7	121	0.00	7.30
102		1,3-Dichlorobenzene	1.480	1.406	5.0	115	0.00	7.32
103		1,2,3-Trimethylbenzene	2.285	2.260	1.1	119	0.00	7.43
104		1,4-Dichlorobenzene	1.507	1.407	6.6	112	0.00	7.39
105		n-Butylbenzene	1.317	1.185	10.0	111	0.00	7.63
106		Benzyl Chloride	0.336	0.347	-3.3	114	0.00	7.58
107		1,2-Dichlorobenzene	1.390	1.292	7.1	112	0.00	7.71
108		1,2-Dibromo-3-Chloropropa	0.178	0.161	9.6	104	0.00	8.29
109		Hexachlorobutadiene	0.543	0.468	13.8	108	0.00	8.80
110		1,2,4-Trichlorobenzene	0.913	0.849	7.0	111	0.00	8.79
111		Naphthalene	2.298	2.152	6.4	114	0.00	9.00
112		1,2,3-Trichlorobenzene	0.871	0.806	7.5	111	0.00	9.12

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A42181.D V2A_12-16-2022.M Mon Dec 19 09:16:28 2022

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2A1682-CC1677
Lab FileID: 2A42432.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ce...022\V2A1682\2A42432.d Vial: 52
Acq On : 27 Dec 2022 12:45 pm Operator: joannel
Sample : CC1677-5 Inst : MSVOA17
Misc : MS53055,V2A1682,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\met...V2A_12-16-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Dec 16 15:31:38 2022
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	89	0.00	3.65
2		Dichlorodifluoromethane	0.297	0.272	8.4	86	0.00	1.04
3	P	Chloromethane	0.246	0.216	12.2	85	0.00	1.16
4		1,3-butadiene	0.170	0.172	-1.2	112	0.00	1.23
5	C	Vinyl Chloride	0.260	0.244	6.2	90	0.00	1.21
6		Bromomethane	0.173	0.187	-8.1	102	0.00	1.41
			True	Calc.	% Drift			
7		Chloroethane	40.000	46.258	-15.6	102	0.00	1.49
			AvgRF	CCRF	% Dev			
8		Trichlorofluoromethane	0.390	0.428	-9.7	102	0.00	1.58
9		Ethyl Ether	0.187	0.164	12.3	92	0.00	1.77
10		Ethanol	0.003	0.003	0.0	96	0.00	1.85
11		1,2-Dichlorotrifluoroetha	0.301	0.259	14.0	94	0.00	1.88
12	C	1,1-Dichloroethene	0.360	0.291	19.2	88	0.00	1.88
13		Freon 113	0.269	0.227	15.6	91	0.00	1.92
14		Carbon Disulfide	0.693	0.563	18.8	90	0.00	1.90
15		Iodomethane	0.390	0.267	31.5#	67	0.00	1.96
			True	Calc.	% Drift			
16		Acrolein	200.000	181.774	9.1	87	0.00	2.05
			AvgRF	CCRF	% Dev			
17		Allyl chloride	0.278	0.250	10.1	89	0.00	2.15
			True	Calc.	% Drift			
18		Methylene Chloride	40.000	34.740	13.1	88	0.00	2.20
19		Acetone	200.000	183.744	8.1	92	0.00	2.21
			AvgRF	CCRF	% Dev			
20		Methyl acetate	0.200	0.170	15.0	88	0.00	2.30
21		trans-1,2-Dichloroethene	0.352	0.294	16.5	90	0.00	2.30
22		Hexane	0.203	0.166	18.2	88	0.00	2.37
23		Methyl Tert Butyl Ether	0.725	0.650	10.3	91	0.00	2.37
24		Acetonitrile	0.039	0.029	25.6#	81	0.00	2.37
25		Tert Butyl Alcohol	0.051	0.041	19.6	81	0.00	2.40
26		Di-isopropyl ether	0.630	0.541	14.1	88	0.00	2.60
27		Chloroprene	0.797	0.739	7.3	91	0.00	2.63
28	P	1,1-Dichloroethane	0.443	0.389	12.2	92	0.00	2.63
29		Acrylonitrile	0.099	0.091	8.1	88	0.00	2.63
30		ETBE	0.704	0.634	9.9	90	0.00	2.80

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2A1682-CC1677
Lab FileID: 2A42432.D

31		Vinyl acetate	0.419	0.394	6.0	88	0.00	2.77
32		cis-1,2-Dichloroethene	0.288	0.257	10.8	94	0.00	2.93
33		2,2-Dichloropropane	0.418	0.355	15.1	90	0.00	3.00
34		Bromochloromethane	0.148	0.128	13.5	91	0.00	3.04
35		Cyclohexane	0.389	0.318	18.3	89	0.00	3.08
36	C	Chloroform	0.498	0.444	10.8	93	0.00	3.08
37		Ethyl acetate	0.259	0.235	9.3	87	0.00	3.15
			True	Calc.	% Drift			
38		Tetrahydrofuran	40.000	81.584	-104.0#	213	-0.02	3.15
			AvgRF	CCRF	% Dev			
39	S	Dibromofluoromethane	0.290	0.291	-0.3	91	0.00	3.18
40		Carbon Tetrachloride	0.380	0.340	10.5	94	0.00	3.19
41		1,1,1-Trichloroethane	0.436	0.387	11.2	95	0.00	3.21
42		2-Butanone	0.151	0.124	17.9	85	0.00	3.24
43		1,1-Dichloropropene	0.366	0.322	12.0	93	0.00	3.28
44		tert-Butyl formate	0.213	0.191	10.3	83	0.00	3.34
45		Propionitrile	0.041	0.040	2.4	93	0.00	3.38
46		Methacrylonitrile	0.152	0.145	4.6	90	0.00	3.40
47		Benzene	1.040	0.940	9.6	93	0.00	3.42
48		TAME	0.692	0.621	10.3	91	0.00	3.50
49	S	1,2-Dichloroethane-d4	0.327	0.322	1.5	88	0.00	3.47
50		1,2-Dichloroethane	0.362	0.322	11.0	91	0.00	3.51
			True	Calc.	% Drift			
51		Isobutyl Alcohol	800.000	780.269	2.5	96	0.00	3.51
			AvgRF	CCRF	% Dev			
52		Tert Amyl Alcohol	0.036	0.032	11.1	89	0.00	3.58
53		Trichloroethene	0.302	0.270	10.6	93	0.00	3.76
54		Methylcyclohexane	0.446	0.374	16.1	91	0.00	3.77
55		Dibromomethane	0.186	0.168	9.7	93	0.00	3.99
56	C	1,2-Dichloropropane	0.255	0.227	11.0	92	0.00	4.05
57		Bromodichloromethane	0.347	0.321	7.5	94	0.00	4.09
			True	Calc.	% Drift			
58		Methyl methacrylate	40.000	35.450	11.4	85	0.00	4.18
			AvgRF	CCRF	% Dev			
59		1,4-Dioxane	0.003	0.004	-33.3#	101	0.00	4.20
60		2-Chloroethyl vinyl ether	0.189	0.167	11.6	87	0.00	4.44
61		cis-1,3-Dichloropropene	0.413	0.372	9.9	90	0.00	4.47
62	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00	5.64
63	S	Toluene-d8	1.260	1.209	4.0	88	0.00	4.61
64	C	Toluene	1.470	1.269	13.7	94	0.00	4.64
65		2-Nitropropane	0.097	0.089	8.2	90	0.00	4.74
66		4-Methyl-2-pentanone	0.380	0.316	16.8	89	0.00	4.86
67		trans-1,3-Dichloropropene	0.457	0.420	8.1	92	0.00	4.89
68		Tetrachloroethene	0.433	0.388	10.4	97	0.00	4.91
			True	Calc.	% Drift			
69		Ethyl methacrylate	40.000	36.088	9.8	90	0.00	5.01
			AvgRF	CCRF	% Dev			
70		1,1,2-Trichloroethane	0.262	0.242	7.6	94	0.00	4.99
71		Dibromochloromethane	0.363	0.346	4.7	96	0.00	5.12
72		1,3-Dichloropropane	0.522	0.469	10.2	92	0.00	5.17
73		1,2-Dibromoethane	0.354	0.325	8.2	94	0.00	5.27

Continuing Calibration Summary

Job Number: FC1200 **Sample:** V2A1682-CC1677
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 2A42432.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

74		3,3-Dimethyl-1-Butanol	0.053	0.048	9.4	90	0.00	5.41
75		2-hexanone	0.374	0.323	13.6	90	0.00	5.42
		----------	True	Calc.	% Drift	----------		
76		1-Chlorohexane	40.000	36.345	9.1	95	0.00	5.64
		----------	AvgRF	CCRF	% Dev	----------		
77	C	Ethylbenzene	1.653	1.440	12.9	95	0.00	5.67
78	P	Chlorobenzene	0.980	0.885	9.7	97	0.00	5.64
79		1,1,1,2-Tetrachloroethane	0.342	0.321	6.1	97	0.00	5.69
80		m,p-Xylene	1.324	1.170	11.6	95	0.00	5.78
81		o-Xylene	1.344	1.203	10.5	95	0.00	6.08
82		Styrene	1.047	0.959	8.4	95	0.00	6.12
83	P	Bromoform	0.254	0.244	3.9	95	0.00	6.12
84		Isopropylbenzene	1.647	1.472	10.6	96	0.00	6.33
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00	7.38
86	S	4-Bromofluorobenzene	0.841	0.821	2.4	93	0.00	6.51
87		cis-1,4-Dichloro-2-butene	0.254	0.185	27.2#	76	0.00	6.55
88		n-Propylbenzene	3.550	3.006	15.3	96	0.00	6.64
89		Bromobenzene	0.814	0.720	11.5	97	0.00	6.59
90	P	1,1,2,2-Tetrachloroethane	0.830	0.719	13.4	93	0.00	6.66
91		1,3,5-Trimethylbenzene	2.542	2.184	14.1	96	0.00	6.79
92		2-Chlorotoluene	2.022	1.724	14.7	94	0.00	6.74
93		trans-1,4-Dichloro-2-Bute	0.283	0.222	21.6#	82	0.00	6.79
94		1,2,3-Trichloropropane	0.261	0.231	11.5	95	0.00	6.75
95		Cyclohexanone	0.029	0.026	10.3	92	0.00	6.77
96		4-Chlorotoluene	2.105	1.816	13.7	95	0.00	6.87
97		tert-Butylbenzene	1.440	1.204	16.4	94	0.00	7.04
98		1,2,4-Trimethylbenzene	2.377	2.065	13.1	96	0.00	7.09
		----------	True	Calc.	% Drift	----------		
99		Pentachloroethane	40.000	37.838	5.4	96	0.00	7.04
		----------	AvgRF	CCRF	% Dev	----------		
100		sec-Butylbenzene	3.125	2.636	15.6	96	0.00	7.18
101		4-Isopropyltoluene	2.720	2.317	14.8	96	0.00	7.30
102		1,3-Dichlorobenzene	1.480	1.317	11.0	98	0.00	7.32
103		1,2,3-Trimethylbenzene	2.285	2.015	11.8	96	0.00	7.43
104		1,4-Dichlorobenzene	1.507	1.337	11.3	97	0.00	7.39
105		n-Butylbenzene	1.317	1.106	16.0	94	0.00	7.63
106		Benzyl Chloride	0.336	0.301	10.4	90	0.00	7.58
107		1,2-Dichlorobenzene	1.390	1.242	10.6	98	0.00	7.71
108		1,2-Dibromo-3-Chloropropa	0.178	0.149	16.3	88	0.00	8.29
109		Hexachlorobutadiene	0.543	0.437	19.5	92	0.00	8.80
110		1,2,4-Trichlorobenzene	0.913	0.806	11.7	96	0.00	8.79
111		Naphthalene	2.298	2.018	12.2	97	0.00	9.00
112		1,2,3-Trichlorobenzene	0.871	0.768	11.8	96	0.00	9.12

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A42181.D V2A_12-16-2022.M Tue Dec 27 23:36:23 2022

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2A1682-ECC1677
Lab FileID: 2A42450.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ce...022\V2A1682\2A42450.d Vial: 68
Acq On : 27 Dec 2022 7:23 pm Operator: joannel
Sample : ECC1677-5 Inst : MSVOA17
Misc : MS53055,V2A1682,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\met...V2A_12-16-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Dec 16 15:31:38 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Fluorobenzene	1.000	1.000	0.0	88	0.00	3.65
2		Dichlorodifluoromethane	0.297	0.310	-4.4	97	0.00	1.04
3	P	Chloromethane	0.246	0.233	5.3	91	0.00	1.16
4		1,3-butadiene	0.170	0.139	18.2	89	0.00	1.23
5	C	Vinyl Chloride	0.260	0.266	-2.3	97	0.00	1.21
6		Bromomethane	0.173	0.200	-15.6	108	0.00	1.41
			True	Calc.	% Drift			
7		Chloroethane	40.000	46.393	-16.0	102	0.00	1.49
			AvgRF	CCRF	% Dev			
8		Trichlorofluoromethane	0.390	0.465	-19.2	109	0.00	1.58
9		Ethyl Ether	0.187	0.174	7.0	96	0.00	1.77
10		Ethanol	0.003	0.003	0.0	109	0.00	1.85
11		1,2-Dichlorotrifluoroetha	0.301	0.286	5.0	103	0.00	1.87
12	C	1,1-Dichloroethene	0.360	0.345	4.2	103	0.00	1.88
13		Freon 113	0.269	0.266	1.1	106	0.00	1.91
14		Carbon Disulfide	0.693	0.642	7.4	101	0.00	1.90
15		Iodomethane	0.390	0.298	23.6	74	0.00	1.96
			True	Calc.	% Drift			
16		Acrolein	200.000	189.799	5.1	90	0.00	2.05
			AvgRF	CCRF	% Dev			
17		Allyl chloride	0.278	0.248	10.8	88	0.00	2.15
			True	Calc.	% Drift			
18		Methylene Chloride	40.000	38.935	2.7	97	0.00	2.20
19		Acetone	200.000	214.125	-7.1	105	0.00	2.21
			AvgRF	CCRF	% Dev			
20		Methyl acetate	0.200	0.188	6.0	96	0.00	2.30
21		trans-1,2-Dichloroethene	0.352	0.333	5.4	101	0.00	2.30
22		Hexane	0.203	0.191	5.9	100	0.00	2.37
23		Methyl Tert Butyl Ether	0.725	0.708	2.3	98	0.00	2.37
24		Acetonitrile	0.039	0.034	12.8	93	0.00	2.37
25		Tert Butyl Alcohol	0.051	0.043	15.7	84	0.00	2.40
26		Di-isopropyl ether	0.630	0.590	6.3	95	0.00	2.59
27		Chloroprene	0.797	0.774	2.9	94	0.00	2.63
28	P	1,1-Dichloroethane	0.443	0.425	4.1	99	0.00	2.63
29		Acrylonitrile	0.099	0.097	2.0	92	0.00	2.63
30		ETBE	0.704	0.695	1.3	98	0.00	2.80

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2A1682-ECC1677
Lab FileID: 2A42450.D

31		Vinyl acetate	0.419	0.400	4.5	88	0.00	2.77
32		cis-1,2-Dichloroethene	0.288	0.285	1.0	103	0.00	2.94
33		2,2-Dichloropropane	0.418	0.380	9.1	95	0.00	3.00
34		Bromochloromethane	0.148	0.145	2.0	103	0.00	3.04
35		Cyclohexane	0.389	0.365	6.2	102	0.00	3.08
36	C	Chloroform	0.498	0.495	0.6	103	0.00	3.08
37		Ethyl acetate	0.259	0.244	5.8	89	0.00	3.15
			True	Calc.	% Drift			
38		Tetrahydrofuran	40.000	86.181	-115.5#	223	-0.02	3.15
			AvgRF	CCRF	% Dev			
39	S	Dibromofluoromethane	0.290	0.292	-0.7	90	0.00	3.18
40		Carbon Tetrachloride	0.380	0.380	0.0	104	0.00	3.19
41		1,1,1-Trichloroethane	0.436	0.427	2.1	104	0.00	3.21
42		2-Butanone	0.151	0.133	11.9	89	0.00	3.24
43		1,1-Dichloropropene	0.366	0.362	1.1	103	0.00	3.28
44		tert-Butyl formate	0.213	0.198	7.0	85	0.00	3.33
45		Propionitrile	0.041	0.044	-7.3	100	0.00	3.38
46		Methacrylonitrile	0.152	0.150	1.3	92	0.00	3.40
47		Benzene	1.040	1.036	0.4	102	0.00	3.42
48		TAME	0.692	0.691	0.1	100	0.00	3.50
49	S	1,2-Dichloroethane-d4	0.327	0.318	2.8	86	0.00	3.47
50		1,2-Dichloroethane	0.362	0.356	1.7	99	0.00	3.51
			True	Calc.	% Drift			
51		Isobutyl Alcohol	800.000	840.512	-5.1	103	0.00	3.51
			AvgRF	CCRF	% Dev			
52		Tert Amyl Alcohol	0.036	0.035	2.8	94	0.00	3.58
53		Trichloroethene	0.302	0.300	0.7	102	0.00	3.76
54		Methylcyclohexane	0.446	0.442	0.9	106	0.00	3.78
55		Dibromomethane	0.186	0.184	1.1	101	0.00	3.99
56	C	1,2-Dichloropropane	0.255	0.243	4.7	98	0.00	4.05
57		Bromodichloromethane	0.347	0.336	3.2	97	0.00	4.09
			True	Calc.	% Drift			
58		Methyl methacrylate	40.000	37.770	5.6	90	0.00	4.19
			AvgRF	CCRF	% Dev			
59		1,4-Dioxane	0.003	0.004	-33.3	111	0.00	4.20
60		2-Chloroethyl vinyl ether	0.189	0.172	9.0	88	0.00	4.44
61		cis-1,3-Dichloropropene	0.413	0.399	3.4	96	0.00	4.48
62	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00	5.64
63	S	Toluene-d8	1.260	1.224	2.9	88	0.00	4.61
64	C	Toluene	1.470	1.400	4.8	103	0.00	4.64
65		2-Nitropropane	0.097	0.089	8.2	89	0.00	4.74
66		4-Methyl-2-pentanone	0.380	0.320	15.8	89	0.00	4.86
67		trans-1,3-Dichloropropene	0.457	0.444	2.8	96	0.00	4.89
68		Tetrachloroethene	0.433	0.459	-6.0	114	0.00	4.91
			True	Calc.	% Drift			
69		Ethyl methacrylate	40.000	38.145	4.6	94	0.00	5.01
			AvgRF	CCRF	% Dev			
70		1,1,2-Trichloroethane	0.262	0.263	-0.4	101	0.00	4.99
71		Dibromochloromethane	0.363	0.369	-1.7	101	0.00	5.12
72		1,3-Dichloropropane	0.522	0.516	1.1	100	0.00	5.17
73		1,2-Dibromoethane	0.354	0.356	-0.6	102	0.00	5.27

Continuing Calibration Summary

Job Number: FC1200 **Sample:** V2A1682-ECC1677
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 2A42450.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

74		3,3-Dimethyl-1-Butanol	0.053	0.046	13.2	85	0.00	5.41
75		2-hexanone	0.374	0.320	14.4	88	0.00	5.42
		----------	True	Calc.	% Drift	----------		
76		1-Chlorohexane	40.000	38.087	4.8	98	0.00	5.65
		----------	AvgRF	CCRF	% Dev	----------		
77	C	Ethylbenzene	1.653	1.590	3.8	103	0.00	5.68
78	P	Chlorobenzene	0.980	0.959	2.1	103	0.00	5.64
79		1,1,1,2-Tetrachloroethane	0.342	0.349	-2.0	104	0.00	5.69
80		m,p-Xylene	1.324	1.258	5.0	101	0.00	5.78
81		o-Xylene	1.344	1.284	4.5	100	0.00	6.09
82		Styrene	1.047	1.030	1.6	100	0.00	6.12
83	P	Bromoform	0.254	0.255	-0.4	98	0.00	6.12
84		Isopropylbenzene	1.647	1.613	2.1	104	0.00	6.33
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00	7.38
86	S	4-Bromofluorobenzene	0.841	0.837	0.5	92	0.00	6.52
87		cis-1,4-Dichloro-2-butene	0.254	0.192	24.4	77	0.00	6.55
88		n-Propylbenzene	3.550	3.286	7.4	102	0.00	6.64
89		Bromobenzene	0.814	0.785	3.6	104	0.00	6.59
90	P	1,1,2,2-Tetrachloroethane	0.830	0.788	5.1	100	0.00	6.66
91		1,3,5-Trimethylbenzene	2.542	2.430	4.4	104	0.00	6.79
92		2-Chlorotoluene	2.022	1.886	6.7	101	0.00	6.74
93		trans-1,4-Dichloro-2-Bute	0.283	0.223	21.2	81	0.00	6.79
94		1,2,3-Trichloropropane	0.261	0.252	3.4	101	0.00	6.76
95		Cyclohexanone	0.029	0.028	3.4	99	0.00	6.78
96		4-Chlorotoluene	2.105	1.948	7.5	100	0.00	6.87
97		tert-Butylbenzene	1.440	1.329	7.7	102	0.00	7.04
98		1,2,4-Trimethylbenzene	2.377	2.310	2.8	105	0.00	7.09
		----------	True	Calc.	% Drift	----------		
99		Pentachloroethane	40.000	39.074	2.3	98	0.00	7.04
		----------	AvgRF	CCRF	% Dev	----------		
100		sec-Butylbenzene	3.125	2.939	6.0	104	0.00	7.18
101		4-Isopropyltoluene	2.720	2.601	4.4	105	0.00	7.30
102		1,3-Dichlorobenzene	1.480	1.436	3.0	104	0.00	7.33
103		1,2,3-Trimethylbenzene	2.285	2.223	2.7	104	0.00	7.43
104		1,4-Dichlorobenzene	1.507	1.462	3.0	104	0.00	7.40
105		n-Butylbenzene	1.317	1.237	6.1	103	0.00	7.63
106		Benzyl Chloride	0.336	0.292	13.1	85	0.00	7.58
107		1,2-Dichlorobenzene	1.390	1.350	2.9	104	0.00	7.71
108		1,2-Dibromo-3-Chloropropa	0.178	0.162	9.0	93	0.00	8.30
109		Hexachlorobutadiene	0.543	0.505	7.0	104	0.00	8.80
110		1,2,4-Trichlorobenzene	0.913	0.903	1.1	105	0.00	8.79
111		Naphthalene	2.298	2.323	-1.1	109	0.00	9.00
112		1,2,3-Trichlorobenzene	0.871	0.878	-0.8	107	0.00	9.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A42181.D V2A_12-16-2022.M Wed Dec 28 00:07:18 2022

Initial Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3622-ICC3622
Lab FileID: 2P94959.D

Response Factor Report MSVOA13

Method : C:\msdchem\1\MET...V2P_2022-11-04.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Calibration Files
1 =2P94951.D 2 =2P94953.D 3 =2P94955.D 4 =2P94957.D
5 =2P94959.D 6 =2P94961.D 7 =2P94963.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.163	0.192	0.172	0.180	0.203	0.213	0.208	0.190	9.95
3)P Chloromethane	0.232	0.207	0.205	0.206	0.219	0.219	0.210	0.214	4.60
4) 1,3-butadiene	0.198	0.267	0.225	0.223	0.226	0.219	0.204	0.223	9.97
5)C Vinyl Chloride	0.230	0.238	0.226	0.225	0.238	0.244	0.233	0.233	3.05
6) Bromomethane	0.100	0.126	0.106	0.100	0.115	0.110	0.106	0.109	8.19
7) Chloroethane	0.131	0.071	0.071	0.063	0.067	0.067	0.063	0.076	31.97
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9980									
Response Ratio = 0.00000 + 0.07036 *A + -0.00350 *A^2									
8) Trichlorofluorome	0.264	0.271	0.263	0.259	0.256			0.262	2.21
9) Ethyl Ether	0.171	0.208	0.187	0.186	0.201	0.213	0.211	0.197	8.06
10) Ethanol	0.008	0.009	0.007	0.006	0.006	0.005	0.005	0.006	20.05
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9975									
Response Ratio = 0.00000 + 0.00701 *A + -0.00006 *A^2									
11) 1,2-Dichlorotrifl	0.196	0.233	0.219	0.221	0.237	0.239	0.235	0.226	6.75
12)C 1,1-Dichloroethen	0.233	0.275	0.261	0.278	0.293	0.303	0.294	0.277	8.65
13) Freon 113	0.146	0.161	0.158	0.168	0.174	0.182	0.179	0.167	7.64
14) Carbon Disulfide	0.529	0.514	0.479	0.508	0.535	0.548	0.530	0.520	4.33
15) Iodomethane		0.054	0.091	0.134	0.141	0.140	0.139	0.117	31.16
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9935									
Response Ratio = 0.00000 + 0.11819 *A + 0.01282 *A^2									
16) Acrolein	0.064	0.067	0.053	0.058	0.062	0.062	0.061	0.061	7.44
17) Allyl chloride	0.210	0.248	0.225	0.243	0.262	0.265	0.248	0.243	8.11
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9983									
Response Ratio = 0.00000 + 0.25161 *A + 0.00153 *A^2									
18) Methylene Chlorid	1.706	0.559	0.440	0.411	0.339	0.299	0.290	0.578	87.64
---- Linear regr., Force(0,0) ---- Coefficient = 0.9947									
Response Ratio = 0.00000 + 0.30291 *A									
19) Acetone	0.200	0.154	0.135	0.134	0.129	0.129	0.120	0.143	19.00
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994									
Response Ratio = 0.00000 + 0.14127 *A + -0.00206 *A^2									
20) Methyl acetate	0.277	0.305	0.278	0.284	0.293	0.302	0.295	0.290	3.83
21) trans-1,2-Dichlor	0.227	0.273	0.265	0.273	0.294	0.299	0.298	0.276	9.23
22) Hexane	0.207	0.140	0.135	0.146	0.159	0.167	0.168	0.160	15.19
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9988									
Response Ratio = 0.00000 + 0.14482 *A + 0.01275 *A^2									
23) Methyl Tert Butyl	0.569	0.656	0.614	0.631	0.680	0.704	0.702	0.651	7.64
24) Tert Butyl Alcoho	0.070	0.075	0.066	0.064	0.066	0.068	0.066	0.068	5.60
25) Acetonitrile	0.063	0.062	0.052	0.049	0.044	0.065	0.063	0.057	14.79

Initial Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3622-ICC3622
Lab FileID: 2P94959.D

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            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9900
              Response Ratio = 0.00000 + 0.04594 *A + 0.00092 *A^2

26)  Di-isopropyl ethe 0.585 0.706 0.644 0.664 0.698 0.701 0.695 0.671   6.58
27)  Chloroprene       0.921 1.004 0.998 0.958 1.013 1.041 1.010 0.992   4.03
28)P 1,1-Dichloroethan 0.322 0.371 0.338 0.351 0.376 0.380 0.375 0.359   6.27
29)  Acrylonitrile     0.130 0.135 0.132 0.126 0.130 0.132 0.128 0.131   2.17
30)  ETBE              0.560 0.664 0.623 0.649 0.688 0.705 0.700 0.656   7.80
31)  Vinyl acetate     0.485 0.507 0.510 0.492 0.527 0.532 0.516 0.510   3.38
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.51285 *A + 0.00093 *A^2

32)  cis-1,2-Dichloroe 0.187 0.207 0.188 0.195 0.208 0.207 0.204 0.199   4.64
33)  2,2-Dichloropropa 0.253 0.283 0.273 0.293 0.316 0.323 0.323 0.295   9.14
34)  Bromochloromethan 0.075 0.086 0.079 0.085 0.085 0.081 0.079 0.082   4.79
35)  Cyclohexane       0.263 0.308 0.305 0.325 0.349 0.360 0.354 0.323  10.68
36)C Chloroform        0.317 0.355 0.334 0.344 0.370 0.378 0.371 0.353   6.33
37)  Ethyl acetate     0.372 0.372 0.365 0.344 0.366 0.371 0.360 0.364   2.76
38)  Tetrahydrofuran   0.151 0.154 0.134 0.139 0.140 0.145 0.138 0.143   5.16
39)S Dibromofluorometh 0.202 0.203 0.203 0.209 0.215 0.215 0.216 0.209   3.12
40)  Carbon Tetrachlor 0.179 0.207 0.203 0.213 0.241 0.246 0.251 0.220  12.24
41)  1,1,1-Trichloroet 0.243 0.289 0.269 0.290 0.316 0.324 0.314 0.292   9.92
42)  2-Butanone        0.277 0.224 0.206 0.203 0.211 0.216 0.205 0.220  11.84
43)  1,1-Dichloroprope 0.222 0.278 0.254 0.268 0.287 0.291 0.284 0.269   9.03
44)  tert-Butyl format 0.117 0.152 0.127 0.153 0.168 0.184 0.184 0.155  16.81
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9981
              Response Ratio = 0.00000 + 0.14590 *A + 0.00424 *A^2

45)  Propionitrile     0.048 0.068 0.059 0.060 0.060 0.061 0.059 0.059   9.83
46)  Methacrylonitrile 0.147 0.231 0.204 0.210 0.220 0.223 0.208 0.206  13.37
47)  Benzene           0.746 0.875 0.813 0.836 0.888 0.921 0.918 0.857   7.37
48)  TAME              0.551 0.620 0.581 0.598 0.651 0.668 0.669 0.620   7.33
49)S 1,2-Dichloroethan 0.294 0.298 0.291 0.295 0.306 0.307 0.313 0.301   2.68
50)  Isobutyl alcohol  0.032 0.041 0.037 0.038 0.039 0.039 0.037 0.037   7.55
51)  1,2-Dichloroethan 0.271 0.309 0.271 0.278 0.300 0.305 0.306 0.291   5.96
52)  Tert Amyl Alcohol 0.048 0.059 0.054 0.053 0.055 0.056 0.054 0.054   6.07
53)  Trichloroethene   0.202 0.213 0.192 0.197 0.211 0.216 0.215 0.206   4.62
54)  Methylcyclohexane 0.228 0.269 0.268 0.292 0.313 0.325 0.323 0.288  12.40
55)  Dibromomethane    0.093 0.120 0.110 0.113 0.122 0.126 0.126 0.116  10.05
56)C 1,2-Dichloropropa 0.198 0.214 0.196 0.199 0.213 0.213 0.212 0.206   4.03
57)  Bromodichlorometh 0.179 0.210 0.197 0.220 0.240 0.257 0.261 0.223  13.77
58)  Methyl methacryla 0.184 0.253 0.211 0.242 0.263 0.276 0.276 0.244  14.24
59)  1,4-Dioxane       0.005 0.006 0.005 0.005 0.005 0.005 0.005 0.005   7.49
60)  2-Chloroethyl vin 0.116 0.145 0.121 0.136 0.152 0.159 0.156 0.141  12.09
61)  cis-1,3-Dichlorop 0.215 0.273 0.269 0.295 0.328 0.337 0.333 0.293  15.15
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9986
              Response Ratio = 0.00000 + 0.29318 *A + 0.02359 *A^2


62) I   Chlorobenzene-d5      ----------------ISTD--------------------
63)S Toluene-d8        1.468 1.462 1.430 1.403 1.395 1.396 1.398 1.422   2.25
64)C Toluene           1.226 1.397 1.248 1.250 1.309 1.321 1.291 1.292   4.50
65)  2-Nitropropane    0.097 0.121 0.110 0.129 0.147 0.157 0.153 0.130  17.54
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9974
              Response Ratio = 0.00000 + 0.12664 *A + 0.00315 *A^2

66)  4-Methyl-2-pentan 0.638 0.576 0.514 0.524 0.547 0.555 0.523 0.554   7.77
67)  trans-1,3-Dichlor 0.297 0.367 0.356 0.386 0.425 0.432 0.435 0.385  13.04
68)  Tetrachloroethene 0.223 0.263 0.244 0.252 0.271 0.271 0.265 0.256   6.88
69)  Ethyl methacrylat 0.270 0.414 0.387 0.429 0.449 0.471 0.475 0.414  17.05
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Initial Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3622-ICC3622
Lab FileID: 2P94959.D

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             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
               Response Ratio = 0.00000 + 0.41244 *A + 0.03427 *A^2

 70)  1,1,2-Trichloroet 0.209 0.251 0.215 0.224 0.232 0.233 0.227 0.227   5.89
 71)  Dibromochlorometh 0.162 0.194 0.191 0.217 0.238 0.254 0.254 0.216  16.35
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
               Response Ratio = 0.00000 + 0.20868 *A + 0.02546 *A^2

 72)  1,3-Dichloropropa 0.480 0.537 0.472 0.482 0.506 0.506 0.499 0.497   4.42
 73)  1,2-Dibromoethane 0.237 0.272 0.238 0.256 0.272 0.276 0.276 0.261   6.69
 74)  3,3-dimethyl-1-bu 0.058 0.082 0.072 0.082 0.088 0.092 0.086 0.080  14.51
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9978
               Response Ratio = 0.00000 + 0.08259 *A + 0.00006 *A^2

 75)  2-hexanone        0.610 0.612 0.562 0.597 0.610 0.606 0.547 0.592   4.45
 76)  1-Chlorohexane    0.436 0.406 0.355 0.381 0.427 0.437 0.403 0.407   7.54
 77)C Ethylbenzene      1.252 1.472 1.359 1.389 1.423 1.443 1.440 1.397   5.29
 78)P Chlorobenzene     0.742 0.789 0.713 0.730 0.755 0.762 0.750 0.749   3.22
 79)  1,1,1,2-Tetrachlo 0.184 0.220 0.211 0.231 0.243 0.254 0.251 0.228  10.93
 80)  m,p-Xylene        0.931 1.121 1.036 1.092 1.148 1.176 1.164 1.096   7.92
 81)  o-Xylene          0.970 1.099 1.040 1.062 1.124 1.146 1.125 1.081   5.70
 82)  Styrene           0.561 0.759 0.722 0.789 0.850 0.881 0.867 0.776  14.36
 83)P Bromoform         0.080 0.094 0.094 0.111 0.130 0.143 0.147 0.114  22.94
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9980
               Response Ratio = 0.00000 + 0.10432 *A + 0.02304 *A^2

 84)  Isopropylbenzene  1.053 1.257 1.149 1.236 1.300 1.321 1.304 1.232   7.95

 85) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 86)S 4-Bromofluorobenz 0.756 0.750 0.759 0.764 0.765 0.792 0.779 0.766   1.89
 87)  cis-1,4-Dichloro- 0.232 0.302 0.275 0.300 0.314 0.341 0.348 0.302  13.13
 88)  n-Propylbenzene   3.157 3.491 3.297 3.464 3.623 3.774 3.634 3.491   6.05
 89)  Bromobenzene      0.604 0.642 0.594 0.609 0.642 0.660 0.640 0.627   3.90
 90)P 1,1,2,2-Tetrachlo 0.994 1.032 0.930 0.947 0.972 0.988 0.970 0.976   3.39
 91)  1,3,5-Trimethylbe 1.934 2.280 2.200 2.326 2.454 2.545 2.516 2.322   9.16
 92)  2-Chlorotoluene   1.962 2.126 1.986 2.046 2.152 2.206 2.170 2.093   4.54
 93)  trans-1,4-Dichlor 0.283 0.358 0.324 0.349 0.370 0.401 0.400 0.355  11.79
 94)  1,2,3-Trichloropr 0.379 0.366 0.332 0.325 0.329 0.337 0.329 0.343   6.15
 95)  Cyclohexanone     0.063 0.071 0.070 0.064 0.068 0.072 0.068 0.068   5.10
 96)  4-Chlorotoluene   2.081 2.230 2.082 2.120 2.199 2.299 2.243 2.179   3.94
 97)  tert-Butylbenzene 1.160 1.284 1.246 1.304 1.390 1.459 1.442 1.326   8.22
 98)  a-Methyl styrene                                                0.000  -1.00
 99)  1,2,4-Trimethylbe 1.825 2.197 2.134 2.252 2.338 2.474 2.416 2.234   9.68
100)  Pentachloroethane 0.153 0.238 0.244 0.280 0.297 0.314 0.317 0.263  21.99
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
               Response Ratio = 0.00000 + 0.26333 *A + 0.02961 *A^2

101)  sec-Butylbenzene  2.212 2.476 2.410 2.558 2.701 2.787 2.709 2.550   7.90
102)  4-Isopropyltoluen 1.740 2.042 2.007 2.175 2.316 2.400 2.379 2.151  11.12
103)  1,3-Dichlorobenze 1.079 1.163 1.072 1.130 1.182 1.203 1.192 1.146   4.65
104)  1,2,3-Trimethylbe 1.999 2.264 2.098 2.236 2.287 2.373 2.325 2.226   5.93
105)  1,4-Dichlorobenze 1.184 1.246 1.151 1.180 1.207 1.237 1.208 1.202   2.76
106)  n-Butylbenzene    1.010 1.072 1.024 1.095 1.160 1.215 1.201 1.111   7.43
107)  Benzyl Chloride   0.185 0.222 0.222 0.274 0.322 0.349 0.356 0.276  24.77
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9974
               Response Ratio = 0.00000 + 0.25627 *A + 0.05501 *A^2

108)  1,2-Dichlorobenze 1.052 1.107 1.008 1.062 1.105 1.133 1.116 1.083   4.07
109)  1,2-Dibromo-3-Chl 0.208 0.201 0.184 0.198 0.224 0.244 0.248 0.215  11.16
110)  Hexachlorobutadie 0.171 0.183 0.179 0.185 0.201 0.216 0.209 0.192   8.71
```

Initial Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3622-ICC3622
Lab FileID: 2P94959.D

111)	1,2,4-Trichlorobe	0.528	0.560	0.506	0.546	0.582	0.626	0.620	0.567	7.98
112)	Naphthalene	2.059	2.292	2.104	2.267	2.438	2.657	2.626	2.349	10.03
113)	1,2,3-Trichlorobe	0.512	0.516	0.477	0.508	0.545	0.581	0.569	0.530	6.99

(#) = Out of Range

V2P_2022-11-04.M Fri Nov 04 16:52:22 2022

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3622-ICV3622
Lab FileID: 2P94969.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2022-11-04\2P94969.D Vial: 61
Acq On : 4 Nov 2022 3:50 pm Operator: courtnef
Sample : ICV3622-5 Inst : MSVOA13
Misc : MS52512,V2P3622,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V2P_2022-11-04.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Nov 04 16:11:35 2022
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	107	0.00	3.72
2	Dichlorodifluoromethane	0.190	0.162	14.7	85	0.00	1.13
3 P	Chloromethane	0.214	0.203	5.1	99	0.00	1.25
4	1,3-butadiene	0.223	0.236	-5.8	112	0.00	1.32
5 C	Vinyl Chloride	0.233	0.222	4.7	100	0.00	1.31
6	Bromomethane	0.109	0.111	-1.8	103	0.00	1.51
	----------	Amount	Calc.	%Drift	----------		
7	Chloroethane	40.000	37.758	5.6	102	0.00	1.58
	----------	AvgRF	CCRF	%Dev	----------		
8	Trichlorofluoromethane	----------NA----------					
9	Ethyl Ether	0.197	0.175	11.2	93	0.00	1.88
	----------	Amount	Calc.	%Drift	----------		
10	Ethanol	800.000	718.232	10.2	100	0.00	1.99
	----------	AvgRF	CCRF	%Dev	----------		
11	1,2-Dichlorotrifluoroetha	0.226	0.204	9.7	92	0.00	1.98
12 C	1,1-Dichloroethene	0.277	0.273	1.4	100	0.00	1.98
13	Freon 113	0.167	0.149	10.8	92	0.00	2.01
14	Carbon Disulfide	0.520	0.448	13.8	90	0.00	2.00
	----------	Amount	Calc.	%Drift	----------		
15	Iodomethane	40.000	31.977	20.1#	76	0.00	2.06
	----------	AvgRF	CCRF	%Dev	----------		
16	Acrolein	0.061	0.071	-16.4	122	0.00	2.16
	----------	Amount	Calc.	%Drift	----------		
17	Allyl chloride	40.000	46.714	-16.8	121	0.00	2.24
18	Methylene Chloride	40.000	34.022	14.9	82	0.00	2.30
19	Acetone	200.000	191.198	4.4	106	0.00	2.32
	----------	AvgRF	CCRF	%Dev	----------		
20	Methyl acetate	0.290	0.281	3.1	103	0.00	2.40
21	trans-1,2-Dichloroethene	0.276	0.272	1.4	99	0.00	2.40
	----------	Amount	Calc.	%Drift	----------		
22	Hexane	40.000	37.000	7.5	96	0.00	2.47
	----------	AvgRF	CCRF	%Dev	----------		

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3622-ICV3622
Lab FileID: 2P94969.D

			Amount	Calc.	%Drift			
23		Methyl Tert Butyl Ether	0.651	0.656	-0.8	103	0.00	2.47
24		Tert Butyl Alcohol	0.068	0.069	-1.5	112	0.00	2.52
			Amount	Calc.	%Drift			
25		Acetonitrile			NA			
			AvgRF	CCRF	%Dev			
26		Di-isopropyl ether	0.671	0.656	2.2	101	0.00	2.69
27		Chloroprene	0.992	1.005	-1.3	106	0.00	2.73
28	P	1,1-Dichloroethane	0.359	0.363	-1.1	103	0.00	2.73
29		Acrylonitrile	0.131	0.131	0.0	107	0.00	2.73
30		ETBE	0.656	0.630	4.0	98	0.00	2.88
			Amount	Calc.	%Drift			
31		Vinyl acetate	200.000	238.302	-19.2	125	0.00	2.86
			AvgRF	CCRF	%Dev			
32		cis-1,2-Dichloroethene	0.199	0.198	0.5	102	0.00	3.02
33		2,2-Dichloropropane	0.295	0.284	3.7	96	0.00	3.09
34		Bromochloromethane	0.082	0.076	7.3	95	0.00	3.13
35		Cyclohexane	0.323	0.325	-0.6	100	0.00	3.16
36	C	Chloroform	0.353	0.346	2.0	100	0.00	3.17
37		Ethyl acetate	0.364	0.389	-6.9	114	0.00	3.23
38		Tetrahydrofuran	0.143	0.144	-0.7	110	0.00	3.26
39	S	Dibromofluoromethane	0.209	0.210	-0.5	105	0.00	3.26
40		Carbon Tetrachloride	0.220	0.230	-4.5	102	0.00	3.27
41		1,1,1-Trichloroethane	0.292	0.298	-2.1	101	0.00	3.30
42		2-Butanone	0.220	0.217	1.4	110	0.00	3.32
43		1,1-Dichloropropene	0.269	0.262	2.6	98	0.00	3.36
			Amount	Calc.	%Drift			
44		tert-Butyl formate	200.000	158.697	20.7#	81	0.00	3.41
			AvgRF	CCRF	%Dev			
45		Propionitrile	0.059	0.058	1.7	103	0.00	3.46
46		Methacrylonitrile	0.206	0.214	-3.9	104	0.00	3.48
47		Benzene	0.857	0.825	3.7	100	0.00	3.49
48		TAME	0.620	0.652	-5.2	107	0.00	3.57
49	S	1,2-Dichloroethane-d4	0.301	0.312	-3.7	109	0.00	3.55
50		Isobutyl alcohol	0.037	0.039	-5.4	107	0.00	3.60
51		1,2-Dichloroethane	0.291	0.284	2.4	101	0.00	3.59
52		Tert Amyl Alcohol	0.054	0.056	-3.7	109	0.00	3.66
53		Trichloroethene	0.206	0.203	1.5	103	0.00	3.82
54		Methylcyclohexane	0.288	0.298	-3.5	102	0.00	3.84
55		Dibromomethane	0.116	0.114	1.7	100	0.00	4.05
56	C	1,2-Dichloropropane	0.206	0.192	6.8	96	0.00	4.11
57		Bromodichloromethane	0.223	0.239	-7.2	107	0.00	4.14
58		Methyl methacrylate	0.244	0.273	-11.9	111	0.00	4.24
59		1,4-Dioxane	0.005	0.006	-20.0	113	0.00	4.26
60		2-Chloroethyl vinyl ether	0.141	0.149	-5.7	105	0.00	4.48
			Amount	Calc.	%Drift			
61		cis-1,3-Dichloropropene	40.000	39.005	2.5	99	0.00	4.52
			AvgRF	CCRF	%Dev			
62	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00	5.64
63	S	Toluene-d8	1.422	1.405	1.2	106	0.00	4.65
64	C	Toluene	1.292	1.255	2.9	101	0.00	4.68

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3622-ICV3622
Lab FileID: 2P94969.D

			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	218.458	-9.2	110	0.00	4.78
			AvgRF	CCRF	%Dev			
66		4-Methyl-2-pentanone	0.554	0.552	0.4	106	0.00	4.89
67		trans-1,3-Dichloropropene	0.385	0.432	-12.2	107	0.00	4.92
68		Tetrachloroethene	0.256	0.254	0.8	98	0.00	4.94
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	39.403	1.5	101	0.00	5.03
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.227	0.223	1.8	101	0.00	5.02
			Amount	Calc.	%Drift			
71		Dibromochloromethane	40.000	39.636	0.9	100	0.00	5.14
			AvgRF	CCRF	%Dev			
72		1,3-Dichloropropane	0.497	0.458	7.8	95	0.00	5.19
73		1,2-Dibromoethane	0.261	0.263	-0.8	101	0.00	5.29
			Amount	Calc.	%Drift			
74		3,3-dimethyl-1-butanol	2000.000	2383.883	-19.2	122	0.00	5.43
			AvgRF	CCRF	%Dev			
75		2-hexanone	0.592	0.631	-6.6	109	0.00	5.43
76		1-Chlorohexane	0.407	0.414	-1.7	102	0.00	5.65
77	C	Ethylbenzene	1.397	1.366	2.2	101	0.00	5.68
78	P	Chlorobenzene	0.749	0.735	1.9	102	0.00	5.65
79		1,1,1,2-Tetrachloroethane	0.228	0.237	-3.9	102	0.00	5.70
80		m,p-Xylene	1.096	1.107	-1.0	101	0.00	5.78
81		o-Xylene	1.081	1.106	-2.3	103	0.00	6.08
82		Styrene	0.776	0.828	-6.7	102	0.00	6.11
			Amount	Calc.	%Drift			
83	P	Bromoform	40.000	41.622	-4.1	104	0.00	6.12
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.232	1.264	-2.6	102	0.00	6.31
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	7.33
86	S	4-Bromofluorobenzene	0.766	0.766	0.0	104	0.00	6.50
87		cis-1,4-Dichloro-2-butene	0.302	0.299	1.0	99	0.00	6.53
88		n-Propylbenzene	3.491	3.544	-1.5	101	0.00	6.61
89		Bromobenzene	0.627	0.597	4.8	96	0.00	6.57
90	P	1,1,2,2-Tetrachloroethane	0.976	0.953	2.4	102	0.00	6.63
91		1,3,5-Trimethylbenzene	2.322	2.347	-1.1	99	0.00	6.76
92		2-Chlorotoluene	2.093	2.068	1.2	100	0.00	6.71
93		trans-1,4-Dichloro-2-Bute	0.355	0.368	-3.7	103	0.00	6.76
94		1,2,3-Trichloropropane	0.343	0.312	9.0	98	0.00	6.73
95		Cyclohexanone	0.068	0.067	1.5	102	0.00	6.75
96		4-Chlorotoluene	2.179	2.191	-0.6	103	0.00	6.83
97		tert-Butylbenzene	1.326	1.371	-3.4	102	0.00	6.99
98		a-Methyl styrene		----------NA----------				
99		1,2,4-Trimethylbenzene	2.234	2.323	-4.0	103	0.00	7.05
			Amount	Calc.	%Drift			
100		Pentachloroethane	40.000	43.102	-7.8	109	0.00	6.99
			AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3622-ICV3622
Lab FileID: 2P94969.D

101	sec-Butylbenzene	2.550	2.728	-7.0	105	0.00	7.13
102	4-Isopropyltoluene	2.151	2.346	-9.1	105	0.00	7.24
103	1,3-Dichlorobenzene	1.146	1.171	-2.2	103	0.00	7.28
104	1,2,3-Trimethylbenzene	2.226	2.317	-4.1	105	0.00	7.37
105	1,4-Dichlorobenzene	1.202	1.167	2.9	100	0.00	7.34
106	n-Butylbenzene	1.111	1.099	1.1	98	0.00	7.56
		Amount	Calc.	%Drift			
107	Benzyl Chloride	40.000	38.040	4.9	91	0.00	7.52
		AvgRF	CCRF	%Dev			
108	1,2-Dichlorobenzene	1.083	1.078	0.5	101	0.00	7.65
109	1,2-Dibromo-3-Chloropropa	0.215	0.221	-2.8	102	0.00	8.21
110	Hexachlorobutadiene	0.192	0.198	-3.1	102	0.00	8.69
111	1,2,4-Trichlorobenzene	0.567	0.581	-2.5	104	0.00	8.68
112	Naphthalene	2.349	2.509	-6.8	107	0.00	8.88
113	1,2,3-Trichlorobenzene	0.530	0.536	-1.1	102	0.00	9.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2P94959.D V2P_2022-11-04.M Fri Nov 04 16:51:43 2022

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3622-ICV3622
Lab FileID: 2P94971.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2022-11-04\2P94971.D Vial: 62
Acq On : 4 Nov 2022 4:21 pm Operator: courtnef
Sample : ICV3622-4 Inst : MSVOA13
Misc : MS52512,V2P3622,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V2P_2022-11-04.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Nov 04 16:11:35 2022
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	108	0.00	3.72
2		Dichlorodifluoromethane		----------	NA	----------		
3	P	Chloromethane		----------	NA	----------		
4		1,3-butadiene		----------	NA	----------		
5	C	Vinyl Chloride		----------	NA	----------		
6		Bromomethane		----------	NA	----------		
		----------	Amount	Calc.	%Drift	----------		
7		Chloroethane		----------	NA	----------		
		----------	AvgRF	CCRF	%Dev	----------		
8		Trichlorofluoromethane	0.262	0.275	-5.0	115	0.00	1.68
9		Ethyl Ether		----------	NA	----------		
		----------	Amount	Calc.	%Drift	----------		
10		Ethanol		----------	NA	----------		
		----------	AvgRF	CCRF	%Dev	----------		
11		1,2-Dichlorotrifluoroetha		----------	NA	----------		
12	C	1,1-Dichloroethene		----------	NA	----------		
13		Freon 113		----------	NA	----------		
14		Carbon Disulfide		----------	NA	----------		
		----------	Amount	Calc.	%Drift	----------		
15		Iodomethane		----------	NA	----------		
		----------	AvgRF	CCRF	%Dev	----------		
16		Acrolein		----------	NA	----------		
		----------	Amount	Calc.	%Drift	----------		
17		Allyl chloride		----------	NA	----------		
18		Methylene Chloride		----------	NA	----------		
19		Acetone		----------	NA	----------		
		----------	AvgRF	CCRF	%Dev	----------		
20		Methyl acetate		----------	NA	----------		
21		trans-1,2-Dichloroethene		----------	NA	----------		
		----------	Amount	Calc.	%Drift	----------		
22		Hexane		----------	NA	----------		
		----------	AvgRF	CCRF	%Dev	----------		

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3622-ICV3622
Lab FileID: 2P94971.D

23		Methyl Tert Butyl Ether			----------NA----------				
24		Tert Butyl Alcohol			----------NA----------				
		----------	Amount	Calc.	%Drift	----------			
25		Acetonitrile	250.000	210.350	15.9	93	0.00	2.56	
		----------	AvgRF	CCRF	%Dev	----------			
26		Di-isopropyl ether			----------NA----------				
27		Chloroprene			----------NA----------				
28	P	1,1-Dichloroethane			----------NA----------				
29		Acrylonitrile			----------NA----------				
30		ETBE			----------NA----------				
		----------	Amount	Calc.	%Drift	----------			
31		Vinyl acetate			----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------			
32		cis-1,2-Dichloroethene			----------NA----------				
33		2,2-Dichloropropane			----------NA----------				
34		Bromochloromethane			----------NA----------				
35		Cyclohexane			----------NA----------				
36	C	Chloroform			----------NA----------				
37		Ethyl acetate			----------NA----------				
38		Tetrahydrofuran			----------NA----------				
39	S	Dibromofluoromethane	0.209	0.215	-2.9	111	0.00	3.27	
40		Carbon Tetrachloride			----------NA----------				
41		1,1,1-Trichloroethane			----------NA----------				
42		2-Butanone			----------NA----------				
43		1,1-Dichloropropene			----------NA----------				
		----------	Amount	Calc.	%Drift	----------			
44		tert-Butyl formate			----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------			
45		Propionitrile			----------NA----------				
46		Methacrylonitrile			----------NA----------				
47		Benzene			----------NA----------				
48		TAME			----------NA----------				
49	S	1,2-Dichloroethane-d4	0.301	0.316	-5.0	116	0.00	3.55	
50		Isobutyl alcohol			----------NA----------				
51		1,2-Dichloroethane			----------NA----------				
52		Tert Amyl Alcohol			----------NA----------				
53		Trichloroethene			----------NA----------				
54		Methylcyclohexane			----------NA----------				
55		Dibromomethane			----------NA----------				
56	C	1,2-Dichloropropane			----------NA----------				
57		Bromodichloromethane			----------NA----------				
58		Methyl methacrylate			----------NA----------				
59		1,4-Dioxane			----------NA----------				
60		2-Chloroethyl vinyl ether			----------NA----------				
		----------	Amount	Calc.	%Drift	----------			
61		cis-1,3-Dichloropropene			----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------			
62	I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00	5.64	
63	S	Toluene-d8	1.422	1.415	0.5	109	0.00	4.65	
64	C	Toluene			----------NA----------				

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3622-ICV3622
Lab FileID: 2P94971.D

			Amount	Calc.	%Drift		
65		2-Nitropropane		----------NA----------			
			AvgRF	CCRF	%Dev		
66		4-Methyl-2-pentanone		----------NA----------			
67		trans-1,3-Dichloropropene		----------NA----------			
68		Tetrachloroethene		----------NA----------			
			Amount	Calc.	%Drift		
69		Ethyl methacrylate		----------NA----------			
			AvgRF	CCRF	%Dev		
70		1,1,2-Trichloroethane		----------NA----------			
			Amount	Calc.	%Drift		
71		Dibromochloromethane		----------NA----------			
			AvgRF	CCRF	%Dev		
72		1,3-Dichloropropane		----------NA----------			
73		1,2-Dibromoethane		----------NA----------			
			Amount	Calc.	%Drift		
74		3,3-dimethyl-1-butanol		----------NA----------			
			AvgRF	CCRF	%Dev		
75		2-hexanone		----------NA----------			
76		1-Chlorohexane		----------NA----------			
77	C	Ethylbenzene		----------NA----------			
78	P	Chlorobenzene		----------NA----------			
79		1,1,1,2-Tetrachloroethane		----------NA----------			
80		m,p-Xylene		----------NA----------			
81		o-Xylene		----------NA----------			
82		Styrene		----------NA----------			
			Amount	Calc.	%Drift		
83	P	Bromoform		----------NA----------			
			AvgRF	CCRF	%Dev		
84		Isopropylbenzene		----------NA----------			
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00 7.33
86	S	4-Bromofluorobenzene	0.766	0.763	0.4	110	0.00 6.49
87		cis-1,4-Dichloro-2-butene		----------NA----------			
88		n-Propylbenzene		----------NA----------			
89		Bromobenzene		----------NA----------			
90	P	1,1,2,2-Tetrachloroethane		----------NA----------			
91		1,3,5-Trimethylbenzene		----------NA----------			
92		2-Chlorotoluene		----------NA----------			
93		trans-1,4-Dichloro-2-Bute		----------NA----------			
94		1,2,3-Trichloropropane		----------NA----------			
95		Cyclohexanone		----------NA----------			
96		4-Chlorotoluene		----------NA----------			
97		tert-Butylbenzene		----------NA----------			
98		a-Methyl styrene		----------NA----------			
99		1,2,4-Trimethylbenzene		----------NA----------			
			Amount	Calc.	%Drift		
100		Pentachloroethane		----------NA----------			
			AvgRF	CCRF	%Dev		

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3622-ICV3622
Lab FileID: 2P94971.D

101	sec-Butylbenzene		NA	
102	4-Isopropyltoluene		NA	
103	1,3-Dichlorobenzene		NA	
104	1,2,3-Trimethylbenzene		NA	
105	1,4-Dichlorobenzene		NA	
106	n-Butylbenzene		NA	
		Amount	Calc.	%Drift
107	Benzyl Chloride		NA	
		AvgRF	CCRF	%Dev
108	1,2-Dichlorobenzene		NA	
109	1,2-Dibromo-3-Chloropropa		NA	
110	Hexachlorobutadiene		NA	
111	1,2,4-Trichlorobenzene		NA	
112	Naphthalene		NA	
113	1,2,3-Trichlorobenzene		NA	

(#) = Out of Range SPCC's out = 4 CCC's out = 6
2P94957.D V2P_2022-11-04.M Fri Nov 04 16:52:15 2022

6.7.18

6

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3657-CC3622
Lab FileID: 2P96225.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2022-12-12\2P96225.D Vial: 52
Acq On : 12 Dec 2022 10:18 am Operator: courtnef
Sample : CC3622-5 Inst : MSVOA13
Misc : MS52806,V2P3657,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V2P_2022-11-04.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Nov 04 16:11:35 2022
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	75	0.00	3.72
2	Dichlorodifluoromethane	0.190	0.244	-28.4#	91	0.00	1.12
3 P	Chloromethane	0.214	0.236	-10.3	81	0.00	1.25
4	1,3-butadiene	0.223	0.188	15.7	63	0.00	1.32
5 C	Vinyl Chloride	0.233	0.220	5.6	70	0.00	1.31
6	Bromomethane	0.109	0.060	45.0#	39#	0.00	1.51
		Amount	Calc.	%Drift			
7	Chloroethane	40.000	46.641	-16.6	88	0.00	1.58
		AvgRF	CCRF	%Dev			
8	Trichlorofluoromethane	0.262	0.220	16.0	65	0.00	1.67
9	Ethyl Ether	0.197	0.190	3.6	71	0.00	1.88
		Amount	Calc.	%Drift			
10	Ethanol	800.000	790.446	1.2	76	0.00	1.97
		AvgRF	CCRF	%Dev			
11	1,2-Dichlorotrifluoroetha	0.226	0.231	-2.2	74	0.00	1.97
12 C	1,1-Dichloroethene	0.277	0.296	-6.9	76	0.00	1.98
13	Freon 113	0.167	0.185	-10.8	80	0.00	2.01
14	Carbon Disulfide	0.520	0.532	-2.3	75	0.00	2.00
		Amount	Calc.	%Drift			
15	Iodomethane	40.000	35.809	10.5	61	0.00	2.06
		AvgRF	CCRF	%Dev			
16	Acrolein	0.061	0.063	-3.3	77	0.00	2.15
		Amount	Calc.	%Drift			
17	Allyl chloride	40.000	47.718	-19.3	87	0.00	2.25
18	Methylene Chloride	40.000	35.041	12.4	59	0.00	2.30
19	Acetone	200.000	183.571	8.2	72	0.00	2.31
		AvgRF	CCRF	%Dev			
20	Methyl acetate	0.290	0.279	3.8	72	0.00	2.39
21	trans-1,2-Dichloroethene	0.276	0.288	-4.3	74	0.00	2.40
		Amount	Calc.	%Drift			
22	Hexane	40.000	41.158	-2.9	76	0.00	2.47
		AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FC1200 **Sample:** V2P3657-CC3622
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 2P96225.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

23		Methyl Tert Butyl Ether	0.651	0.678	-4.1	75	0.00	2.47
24		Tert Butyl Alcohol	0.068	0.068	0.0	77	0.00	2.51
			Amount	Calc.	%Drift			
25		Acetonitrile	400.000	369.223	7.7	84	0.00	2.55
			AvgRF	CCRF	%Dev			
26		Di-isopropyl ether	0.671	0.680	-1.3	74	0.00	2.69
27		Chloroprene	0.992	0.956	3.6	71	0.00	2.73
28	P	1,1-Dichloroethane	0.359	0.372	-3.6	75	0.00	2.73
29		Acrylonitrile	0.131	0.127	3.1	73	0.00	2.73
30		ETBE	0.656	0.669	-2.0	73	0.00	2.88
			Amount	Calc.	%Drift			
31		Vinyl acetate	200.000	193.305	3.3	71	0.00	2.86
			AvgRF	CCRF	%Dev			
32		cis-1,2-Dichloroethene	0.199	0.209	-5.0	76	0.00	3.02
33		2,2-Dichloropropane	0.295	0.323	-9.5	77	0.00	3.08
34		Bromochloromethane	0.082	0.090	-9.8	80	0.00	3.13
35		Cyclohexane	0.323	0.341	-5.6	74	0.00	3.16
36	C	Chloroform	0.353	0.371	-5.1	76	0.00	3.17
37		Ethyl acetate	0.364	0.355	2.5	73	0.00	3.22
38		Tetrahydrofuran	0.143	0.143	0.0	77	0.00	3.26
39	S	Dibromofluoromethane	0.209	0.219	-4.8	77	0.00	3.26
40		Carbon Tetrachloride	0.220	0.254	-15.5	79	0.00	3.27
41		1,1,1-Trichloroethane	0.292	0.322	-10.3	77	0.00	3.29
42		2-Butanone	0.220	0.205	6.8	73	0.00	3.31
43		1,1-Dichloropropene	0.269	0.288	-7.1	76	0.00	3.36
			Amount	Calc.	%Drift			
44		tert-Butyl formate	200.000	206.532	-3.3	76	0.00	3.41
			AvgRF	CCRF	%Dev			
45		Propionitrile	0.059	0.065	-10.2	81	0.00	3.46
46		Methacrylonitrile	0.206	0.206	0.0	71	0.00	3.48
47		Benzene	0.857	0.842	1.8	72	0.00	3.49
48		TAME	0.620	0.646	-4.2	75	0.00	3.56
49	S	1,2-Dichloroethane-d4	0.301	0.307	-2.0	76	0.00	3.55
50		Isobutyl alcohol	0.037	0.036	2.7	70	0.00	3.59
51		1,2-Dichloroethane	0.291	0.291	0.0	73	0.00	3.59
52		Tert Amyl Alcohol	0.054	0.057	-5.6	78	0.00	3.65
53		Trichloroethene	0.206	0.209	-1.5	75	0.00	3.82
54		Methylcyclohexane	0.288	0.319	-10.8	77	0.00	3.84
55		Dibromomethane	0.116	0.125	-7.8	77	0.00	4.05
56	C	1,2-Dichloropropane	0.206	0.221	-7.3	78	0.00	4.10
57		Bromodichloromethane	0.223	0.263	-17.9	83	0.00	4.14
58		Methyl methacrylate	0.244	0.251	-2.9	72	0.00	4.23
59		1,4-Dioxane	0.005	0.005	0.0	76	0.00	4.26
60		2-Chloroethyl vinyl ether	0.141	0.115	18.4	57	0.00	4.47
			Amount	Calc.	%Drift			
61		cis-1,3-Dichloropropene	40.000	43.803	-9.5	79	0.00	4.52
			AvgRF	CCRF	%Dev			
62	I	Chlorobenzene-d5	1.000	1.000	0.0	76	0.00	5.64
63	S	Toluene-d8	1.422	1.377	3.2	75	0.00	4.65
64	C	Toluene	1.292	1.292	0.0	75	0.00	4.68

Continuing Calibration Summary

Job Number: FC1200 **Sample:** V2P3657-CC3622
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 2P96225.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	198.388	0.8	72	0.00	4.77
			AvgRF	CCRF	%Dev			
66		4-Methyl-2-pentanone	0.554	0.503	9.2	70	0.00	4.89
67		trans-1,3-Dichloropropene	0.385	0.441	-14.5	79	0.00	4.91
68		Tetrachloroethene	0.256	0.285	-11.3	80	0.00	4.93
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	42.986	-7.5	81	0.00	5.03
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.227	0.233	-2.6	77	0.00	5.01
			Amount	Calc.	%Drift			
71		Dibromochloromethane	40.000	45.557	-13.9	84	0.00	5.14
			AvgRF	CCRF	%Dev			
72		1,3-Dichloropropane	0.497	0.511	-2.8	77	0.00	5.19
73		1,2-Dibromoethane	0.261	0.274	-5.0	77	0.00	5.29
			Amount	Calc.	%Drift			
74		3,3-dimethyl-1-butanol	2000.000	1760.166	12.0	65	0.00	5.43
			AvgRF	CCRF	%Dev			
75		2-hexanone	0.592	0.521	12.0	65	0.00	5.43
76		1-Chlorohexane	0.407	0.416	-2.2	74	0.00	5.65
77	C	Ethylbenzene	1.397	1.397	0.0	75	0.00	5.68
78	P	Chlorobenzene	0.749	0.747	0.3	75	0.00	5.65
79		1,1,1,2-Tetrachloroethane	0.228	0.265	-16.2	83	0.00	5.69
80		m,p-Xylene	1.096	1.110	-1.3	74	0.00	5.78
81		o-Xylene	1.081	1.104	-2.1	75	0.00	6.08
82		Styrene	0.776	0.844	-8.8	76	0.00	6.11
			Amount	Calc.	%Drift			
83	P	Bromoform	40.000	53.368	-33.4#	101	0.00	6.11
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.232	1.254	-1.8	74	0.00	6.31
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	80	0.00	7.33
86	S	4-Bromofluorobenzene	0.766	0.802	-4.7	84	0.00	6.49
87		cis-1,4-Dichloro-2-butene	0.302	0.328	-8.6	84	0.00	6.52
88		n-Propylbenzene	3.491	3.319	4.9	73	0.00	6.60
89		Bromobenzene	0.627	0.647	-3.2	81	0.00	6.57
90	P	1,1,2,2-Tetrachloroethane	0.976	0.954	2.3	79	0.00	6.62
91		1,3,5-Trimethylbenzene	2.322	2.290	1.4	75	0.00	6.76
92		2-Chlorotoluene	2.093	2.012	3.9	75	0.00	6.71
93		trans-1,4-Dichloro-2-Bute	0.355	0.358	-0.8	78	0.00	6.76
94		1,2,3-Trichloropropane	0.343	0.331	3.5	80	0.00	6.72
95		Cyclohexanone	0.068	0.057	16.2	67	0.00	6.74
96		4-Chlorotoluene	2.179	2.139	1.8	78	0.00	6.83
97		tert-Butylbenzene	1.326	1.279	3.5	74	0.00	6.99
98		a-Methyl styrene		----------NA----------				
99		1,2,4-Trimethylbenzene	2.234	2.220	0.6	76	0.00	7.04
			Amount	Calc.	%Drift			
100		Pentachloroethane	40.000	48.625	-21.6#	96	0.00	6.99
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3657-CC3622
Lab FileID: 2P96225.D

101	sec-Butylbenzene	2.550	2.499	2.0	74	0.00	7.13
102	4-Isopropyltoluene	2.151	2.155	-0.2	75	0.00	7.24
103	1,3-Dichlorobenzene	1.146	1.189	-3.8	81	0.00	7.27
104	1,2,3-Trimethylbenzene	2.226	2.212	0.6	77	0.00	7.37
105	1,4-Dichlorobenzene	1.202	1.218	-1.3	81	0.00	7.34
106	n-Butylbenzene	1.111	1.093	1.6	75	0.00	7.56
	----------	Amount	Calc.	%Drift	----------		
107	Benzyl Chloride	40.000	45.851	-14.6	88	0.00	7.52
	----------	AvgRF	CCRF	%Dev	----------		
108	1,2-Dichlorobenzene	1.083	1.111	-2.6	81	0.00	7.65
109	1,2-Dibromo-3-Chloropropa	0.215	0.234	-8.8	84	0.00	8.20
110	Hexachlorobutadiene	0.192	0.239	-24.5#	95	0.00	8.69
111	1,2,4-Trichlorobenzene	0.567	0.611	-7.8	84	0.00	8.68
112	Naphthalene	2.349	2.337	0.5	77	0.00	8.88
113	1,2,3-Trichlorobenzene	0.530	0.585	-10.4	86	0.00	9.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2P94959.D V2P_2022-11-04.M Mon Dec 12 10:40:07 2022

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3657-ECC3622
Lab FileID: 2P96269.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\Je...022\V2P3657\2P96269.D Vial: 74
Acq On : 12 Dec 2022 9:58 pm Operator: courtnef
Sample : ECC3622-5 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\met...V2P_2022-11-04.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Nov 04 16:11:35 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Fluorobenzene	1.000	1.000	0.0	74	0.00	3.72
2	Dichlorodifluoromethane	0.190	0.242	-27.4	88	0.00	1.13
3 P	Chloromethane	0.214	0.232	-8.4	78	0.00	1.25
4	1,3-butadiene	0.223	0.212	4.9	69	0.00	1.32
5 C	Vinyl Chloride	0.233	0.228	2.1	71	0.00	1.31
6	Bromomethane	0.109	0.051	53.2#	33#	0.00	1.51
		True	Calc.	% Drift			
7	Chloroethane	40.000	48.353	-20.9	89	0.00	1.59
		AvgRF	CCRF	% Dev			
8	Trichlorofluoromethane	0.262	0.215	17.9	62	0.00	1.68
9	Ethyl Ether	0.197	0.162	17.8	60	0.00	1.88
		True	Calc.	% Drift			
10	Ethanol	800.000	755.487	5.6	72	0.00	1.98
		AvgRF	CCRF	% Dev			
11	1,2-Dichlorotrifluoroetha	0.226	0.218	3.5	68	0.00	1.98
12 C	1,1-Dichloroethene	0.277	0.281	-1.4	71	0.00	1.98
13	Freon 113	0.167	0.166	0.6	71	0.00	2.02
14	Carbon Disulfide	0.520	0.498	4.2	69	0.00	2.01
		True	Calc.	% Drift			
15	Iodomethane	40.000	39.687	0.8	66	0.00	2.06
		AvgRF	CCRF	% Dev			
16	Acrolein	0.061	0.053	13.1	64	0.00	2.16
		True	Calc.	% Drift			
17	Allyl chloride	40.000	42.240	-5.6	75	0.00	2.25
18	Methylene Chloride	40.000	31.796	20.5	52	0.00	2.30
19	Acetone	200.000	167.920	16.0	64	0.00	2.32
		AvgRF	CCRF	% Dev			
20	Methyl acetate	0.290	0.253	12.8	64	0.00	2.40
21	trans-1,2-Dichloroethene	0.276	0.273	1.1	69	0.00	2.40
		True	Calc.	% Drift			
22	Hexane	40.000	33.984	15.0	61	0.00	2.47
		AvgRF	CCRF	% Dev			

Continuing Calibration Summary

Job Number: FC1200 **Sample:** V2P3657-ECC3622
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 2P96269.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

23		Methyl Tert Butyl Ether	0.651	0.654	-0.5	71	0.00	2.47
24		Tert Butyl Alcohol	0.068	0.068	0.0	76	0.00	2.51
			True	Calc.	% Drift			
25		Acetonitrile	400.000	426.148	-6.5	96	0.00	2.55
			AvgRF	CCRF	% Dev			
26		Di-isopropyl ether	0.671	0.628	6.4	66	0.00	2.69
27		Chloroprene	0.992	0.884	10.9	64	0.00	2.73
28	P	1,1-Dichloroethane	0.359	0.355	1.1	70	0.00	2.73
29		Acrylonitrile	0.131	0.115	12.2	65	0.00	2.73
30		ETBE	0.656	0.645	1.7	69	0.00	2.88
			True	Calc.	% Drift			
31		Vinyl acetate	200.000	169.453	15.3	61	0.00	2.86
			AvgRF	CCRF	% Dev			
32		cis-1,2-Dichloroethene	0.199	0.205	-3.0	73	0.00	3.02
33		2,2-Dichloropropane	0.295	0.288	2.4	67	0.00	3.08
34		Bromochloromethane	0.082	0.090	-9.8	78	0.00	3.12
35		Cyclohexane	0.323	0.327	-1.2	69	0.00	3.16
36	C	Chloroform	0.353	0.371	-5.1	74	0.00	3.17
37		Ethyl acetate	0.364	0.338	7.1	68	0.00	3.23
38		Tetrahydrofuran	0.143	0.135	5.6	71	0.00	3.26
39	S	Dibromofluoromethane	0.209	0.216	-3.3	74	0.00	3.27
40		Carbon Tetrachloride	0.220	0.263	-19.5	81	0.00	3.27
41		1,1,1-Trichloroethane	0.292	0.336	-15.1	79	0.00	3.29
42		2-Butanone	0.220	0.204	7.3	71	0.00	3.32
43		1,1-Dichloropropene	0.269	0.286	-6.3	74	0.00	3.37
			True	Calc.	% Drift			
44		tert-Butyl formate	200.000	210.766	-5.4	76	0.00	3.41
			AvgRF	CCRF	% Dev			
45		Propionitrile	0.059	0.065	-10.2	79	0.00	3.46
46		Methacrylonitrile	0.206	0.198	3.9	66	0.00	3.49
47		Benzene	0.857	0.839	2.1	70	0.00	3.50
48		TAME	0.620	0.649	-4.7	74	0.00	3.57
49	S	1,2-Dichloroethane-d4	0.301	0.304	-1.0	73	0.00	3.55
50		Isobutyl alcohol	0.037	0.028	24.3	54	0.00	3.60
51		1,2-Dichloroethane	0.291	0.298	-2.4	73	0.00	3.59
52		Tert Amyl Alcohol	0.054	0.059	-9.3	80	0.00	3.65
53		Trichloroethene	0.206	0.214	-3.9	75	0.00	3.83
54		Methylcyclohexane	0.288	0.311	-8.0	73	0.00	3.84
55		Dibromomethane	0.116	0.125	-7.8	76	0.00	4.05
56	C	1,2-Dichloropropane	0.206	0.221	-7.3	77	0.00	4.11
57		Bromodichloromethane	0.223	0.264	-18.4	81	0.00	4.14
58		Methyl methacrylate	0.244	0.252	-3.3	71	0.00	4.23
59		1,4-Dioxane	0.005	0.006	-20.0	81	0.00	4.26
60		2-Chloroethyl vinyl ether	0.141	0.110	22.0	53	0.00	4.47
			True	Calc.	% Drift			
61		cis-1,3-Dichloropropene	40.000	43.834	-9.6	77	0.00	4.52
			AvgRF	CCRF	% Dev			
62	I	Chlorobenzene-d5	1.000	1.000	0.0	75	0.00	5.64
63	S	Toluene-d8	1.422	1.403	1.3	75	0.00	4.65
64	C	Toluene	1.292	1.307	-1.2	75	0.00	4.68

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3657-ECC3622
Lab FileID: 2P96269.D

			True	Calc.	% Drift			
65		2-Nitropropane	200.000	201.096	-0.5	71	0.00	4.77
			AvgRF	CCRF	% Dev			
66		4-Methyl-2-pentanone	0.554	0.511	7.8	70	0.00	4.89
67		trans-1,3-Dichloropropene	0.385	0.428	-11.2	75	0.00	4.92
68		Tetrachloroethene	0.256	0.304	-18.7	84	0.00	4.93
			True	Calc.	% Drift			
69		Ethyl methacrylate	40.000	42.728	-6.8	78	0.00	5.03
			AvgRF	CCRF	% Dev			
70		1,1,2-Trichloroethane	0.227	0.233	-2.6	75	0.00	5.02
			True	Calc.	% Drift			
71		Dibromochloromethane	40.000	45.525	-13.8	83	0.00	5.14
			AvgRF	CCRF	% Dev			
72		1,3-Dichloropropane	0.497	0.511	-2.8	75	0.00	5.19
73		1,2-Dibromoethane	0.261	0.277	-6.1	76	0.00	5.29
			True	Calc.	% Drift			
74		3,3-dimethyl-1-butanol	2000.000	1814.007	9.3	66	0.00	5.43
			AvgRF	CCRF	% Dev			
75		2-hexanone	0.592	0.516	12.8	63	0.00	5.43
76		1-Chlorohexane	0.407	0.391	3.9	68	0.00	5.65
77	C	Ethylbenzene	1.397	1.429	-2.3	75	0.00	5.68
78	P	Chlorobenzene	0.749	0.743	0.8	74	0.00	5.65
79		1,1,1,2-Tetrachloroethane	0.228	0.265	-16.2	81	0.00	5.69
80		m,p-Xylene	1.096	1.113	-1.6	72	0.00	5.78
81		o-Xylene	1.081	1.115	-3.1	74	0.00	6.07
82		Styrene	0.776	0.838	-8.0	74	0.00	6.11
			True	Calc.	% Drift			
83	P	Bromoform	40.000	50.402	-26.0	92	0.00	6.12
			AvgRF	CCRF	% Dev			
84		Isopropylbenzene	1.232	1.210	1.8	70	0.00	6.30
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	72	0.00	7.33
86	S	4-Bromofluorobenzene	0.766	0.850	-11.0	80	0.00	6.49
87		cis-1,4-Dichloro-2-butene	0.302	0.223	26.2	51	0.00	6.52
88		n-Propylbenzene	3.491	3.322	4.8	66	0.00	6.61
89		Bromobenzene	0.627	0.660	-5.3	74	0.00	6.57
90	P	1,1,2,2-Tetrachloroethane	0.976	0.921	5.6	68	0.00	6.63
91		1,3,5-Trimethylbenzene	2.322	2.279	1.9	67	0.00	6.75
92		2-Chlorotoluene	2.093	2.022	3.4	68	0.00	6.71
93		trans-1,4-Dichloro-2-Bute	0.355	0.277	22.0	54	0.00	6.75
94		1,2,3-Trichloropropane	0.343	0.332	3.2	73	0.00	6.72
95		Cyclohexanone	0.068	0.057	16.2	60	0.00	6.74
96		4-Chlorotoluene	2.179	2.126	2.4	70	0.00	6.83
97		tert-Butylbenzene	1.326	1.317	0.7	68	0.00	6.99
98		a-Methyl styrene	0.000	0.000	0.0	0#	-0.01	7.13
99		1,2,4-Trimethylbenzene	2.234	2.235	-0.0	69	0.00	7.04
			True	Calc.	% Drift			
100		Pentachloroethane	40.000	44.733	-11.8	79	0.00	6.99
			AvgRF	CCRF	% Dev			

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3657-ECC3622
Lab FileID: 2P96269.D

101	sec-Butylbenzene	2.550	2.463	3.4	66	0.00	7.13
102	4-Isopropyltoluene	2.151	2.175	-1.1	68	0.00	7.24
103	1,3-Dichlorobenzene	1.146	1.157	-1.0	71	0.00	7.27
104	1,2,3-Trimethylbenzene	2.226	2.227	-0.0	70	0.00	7.37
105	1,4-Dichlorobenzene	1.202	1.180	1.8	70	0.00	7.34
106	n-Butylbenzene	1.111	1.052	5.3	65	0.00	7.55
		True	Calc.	% Drift			
107	Benzyl Chloride	40.000	37.128	7.2	62	0.00	7.52
		AvgRF	CCRF	% Dev			
108	1,2-Dichlorobenzene	1.083	1.112	-2.7	73	0.00	7.65
109	1,2-Dibromo-3-Chloropropa	0.215	0.243	-13.0	78	0.00	8.20
110	Hexachlorobutadiene	0.192	0.246	-28.1	88	0.00	8.68
111	1,2,4-Trichlorobenzene	0.567	0.606	-6.9	75	0.00	8.68
112	Naphthalene	2.349	2.346	0.1	69	0.00	8.88
113	1,2,3-Trichlorobenzene	0.530	0.604	-14.0	80	0.00	9.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2P94959.D V2P_2022-11-04.M Mon Dec 12 22:22:21 2022

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3658-CC3622
Lab FileID: 2P96273.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2022-12-13\2P96273.D Vial: 52
Acq On : 13 Dec 2022 10:17 am Operator: courtnef
Sample : CC3622-5 Inst : MSVOA13
Misc : MS52806,V2P3658,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V2P_2022-11-04.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Nov 04 16:11:35 2022
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	78	0.00	3.72
2	Dichlorodifluoromethane	0.190	0.238	-25.3#	91	0.00	1.12
3 P	Chloromethane	0.214	0.231	-7.9	82	0.00	1.25
4	1,3-butadiene	0.223	0.203	9.0	70	0.00	1.32
5 C	Vinyl Chloride	0.233	0.226	3.0	74	0.00	1.30
6	Bromomethane	0.109	0.054	50.5#	37#	0.00	1.50
	----------	Amount	Calc.	%Drift	----------		
7	Chloroethane	40.000	45.061	-12.7	88	0.00	1.58
	----------	AvgRF	CCRF	%Dev	----------		
8	Trichlorofluoromethane	0.262	0.214	18.3	65	0.00	1.67
9	Ethyl Ether	0.197	0.190	3.6	73	0.00	1.88
	----------	Amount	Calc.	%Drift	----------		
10	Ethanol	800.000	791.100	1.1	79	-0.01	1.97
	----------	AvgRF	CCRF	%Dev	----------		
11	1,2-Dichlorotrifluoroetha	0.226	0.233	-3.1	76	0.00	1.98
12 C	1,1-Dichloroethene	0.277	0.292	-5.4	78	0.00	1.98
13	Freon 113	0.167	0.180	-7.8	81	0.00	2.01
14	Carbon Disulfide	0.520	0.527	-1.3	77	0.00	2.00
	----------	Amount	Calc.	%Drift	----------		
15	Iodomethane	40.000	35.299	11.8	62	0.00	2.06
	----------	AvgRF	CCRF	%Dev	----------		
16	Acrolein	0.061	0.067	-9.8	85	0.00	2.15
	----------	Amount	Calc.	%Drift	----------		
17	Allyl chloride	40.000	44.723	-11.8	84	0.00	2.24
18	Methylene Chloride	40.000	33.725	15.7	59	0.00	2.30
19	Acetone	200.000	187.906	6.0	76	0.00	2.32
	----------	AvgRF	CCRF	%Dev	----------		
20	Methyl acetate	0.290	0.273	5.9	72	0.00	2.39
21	trans-1,2-Dichloroethene	0.276	0.286	-3.6	76	0.00	2.40
	----------	Amount	Calc.	%Drift	----------		
22	Hexane	40.000	39.252	1.9	74	0.00	2.47
	----------	AvgRF	CCRF	%Dev	----------		

Continuing Calibration Summary

Job Number: FC1200 **Sample:** V2P3658-CC3622
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 2P96273.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

23		Methyl Tert Butyl Ether	0.651	0.695	-6.8	79	0.00	2.47
24		Tert Butyl Alcohol	0.068	0.071	-4.4	83	0.00	2.51
			Amount	Calc.	%Drift			
25		Acetonitrile	400.000	342.827	14.3	79	0.00	2.55
			AvgRF	CCRF	%Dev			
26		Di-isopropyl ether	0.671	0.692	-3.1	77	0.00	2.68
27		Chloroprene	0.992	0.953	3.9	73	0.00	2.72
28	P	1,1-Dichloroethane	0.359	0.374	-4.2	77	0.00	2.73
29		Acrylonitrile	0.131	0.126	3.8	75	0.00	2.73
30		ETBE	0.656	0.682	-4.0	77	0.00	2.88
			Amount	Calc.	%Drift			
31		Vinyl acetate	200.000	191.775	4.1	73	0.00	2.86
			AvgRF	CCRF	%Dev			
32		cis-1,2-Dichloroethene	0.199	0.214	-7.5	80	0.00	3.02
33		2,2-Dichloropropane	0.295	0.320	-8.5	79	0.00	3.08
34		Bromochloromethane	0.082	0.091	-11.0	83	0.00	3.13
35		Cyclohexane	0.323	0.344	-6.5	77	0.00	3.16
36	C	Chloroform	0.353	0.380	-7.6	80	0.00	3.16
37		Ethyl acetate	0.364	0.357	1.9	76	0.00	3.23
38		Tetrahydrofuran	0.143	0.142	0.7	79	0.00	3.26
39	S	Dibromofluoromethane	0.209	0.216	-3.3	78	0.00	3.26
40		Carbon Tetrachloride	0.220	0.263	-19.5	85	0.00	3.27
41		1,1,1-Trichloroethane	0.292	0.334	-14.4	82	0.00	3.29
42		2-Butanone	0.220	0.219	0.5	81	0.00	3.31
43		1,1-Dichloropropene	0.269	0.295	-9.7	80	0.00	3.36
			Amount	Calc.	%Drift			
44		tert-Butyl formate	200.000	228.607	-14.3	88	0.00	3.40
			AvgRF	CCRF	%Dev			
45		Propionitrile	0.059	0.063	-6.8	81	0.00	3.46
46		Methacrylonitrile	0.206	0.195	5.3	69	0.00	3.48
47		Benzene	0.857	0.853	0.5	75	0.00	3.49
48		TAME	0.620	0.658	-6.1	79	0.00	3.57
49	S	1,2-Dichloroethane-d4	0.301	0.300	0.3	76	0.00	3.55
50		Isobutyl alcohol	0.037	0.036	2.7	73	0.00	3.60
51		1,2-Dichloroethane	0.291	0.294	-1.0	76	0.00	3.59
52		Tert Amyl Alcohol	0.054	0.058	-7.4	82	0.00	3.65
53		Trichloroethene	0.206	0.219	-6.3	81	0.00	3.82
54		Methylcyclohexane	0.288	0.323	-12.2	80	0.00	3.84
55		Dibromomethane	0.116	0.130	-12.1	83	0.00	4.05
56	C	1,2-Dichloropropane	0.206	0.220	-6.8	80	0.00	4.10
57		Bromodichloromethane	0.223	0.268	-20.2#	87	0.00	4.14
58		Methyl methacrylate	0.244	0.242	0.8	71	0.00	4.23
59		1,4-Dioxane	0.005	0.006	-20.0	86	0.00	4.26
60		2-Chloroethyl vinyl ether	0.141	0.129	8.5	66	0.00	4.48
			Amount	Calc.	%Drift			
61		cis-1,3-Dichloropropene	40.000	44.998	-12.5	84	0.00	4.52
			AvgRF	CCRF	%Dev			
62	I	Chlorobenzene-d5	1.000	1.000	0.0	80	0.00	5.64
63	S	Toluene-d8	1.422	1.352	4.9	77	0.00	4.64
64	C	Toluene	1.292	1.292	0.0	79	0.00	4.68

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3658-CC3622
Lab FileID: 2P96273.D

			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	187.583	6.2	71	0.00	4.77
			AvgRF	CCRF	%Dev			
66		4-Methyl-2-pentanone	0.554	0.518	6.5	76	0.00	4.89
67		trans-1,3-Dichloropropene	0.385	0.435	-13.0	82	0.00	4.91
68		Tetrachloroethene	0.256	0.284	-10.9	83	0.00	4.94
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	41.856	-4.6	82	0.00	5.02
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.227	0.234	-3.1	80	0.00	5.01
			Amount	Calc.	%Drift			
71		Dibromochloromethane	40.000	46.542	-16.4	90	0.00	5.14
			AvgRF	CCRF	%Dev			
72		1,3-Dichloropropane	0.497	0.526	-5.8	83	0.00	5.19
73		1,2-Dibromoethane	0.261	0.282	-8.0	82	0.00	5.29
			Amount	Calc.	%Drift			
74		3,3-dimethyl-1-butanol	2000.000	1908.748	4.6	74	0.00	5.43
			AvgRF	CCRF	%Dev			
75		2-hexanone	0.592	0.542	8.4	71	0.00	5.43
76		1-Chlorohexane	0.407	0.416	-2.2	78	0.00	5.65
77	C	Ethylbenzene	1.397	1.394	0.2	78	0.00	5.68
78	P	Chlorobenzene	0.749	0.755	-0.8	80	0.00	5.65
79		1,1,1,2-Tetrachloroethane	0.228	0.268	-17.5	88	0.00	5.69
80		m,p-Xylene	1.096	1.118	-2.0	78	0.00	5.78
81		o-Xylene	1.081	1.119	-3.5	79	0.00	6.08
82		Styrene	0.776	0.842	-8.5	79	0.00	6.11
			Amount	Calc.	%Drift			
83	P	Bromoform	40.000	52.188	-30.5#	103	0.00	6.11
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.232	1.279	-3.8	78	0.00	6.31
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	80	0.00	7.33
86	S	4-Bromofluorobenzene	0.766	0.864	-12.8	90	0.00	6.49
87		cis-1,4-Dichloro-2-butene	0.302	0.254	15.9	64	0.00	6.52
88		n-Propylbenzene	3.491	3.564	-2.1	78	0.00	6.60
89		Bromobenzene	0.627	0.703	-12.1	87	0.00	6.57
90	P	1,1,2,2-Tetrachloroethane	0.976	1.001	-2.6	82	0.00	6.62
91		1,3,5-Trimethylbenzene	2.322	2.443	-5.2	79	0.00	6.76
92		2-Chlorotoluene	2.093	2.128	-1.7	79	0.00	6.71
93		trans-1,4-Dichloro-2-Bute	0.355	0.308	13.2	66	0.00	6.76
94		1,2,3-Trichloropropane	0.343	0.344	-0.3	83	0.00	6.72
95		Cyclohexanone	0.068	0.062	8.8	72	0.00	6.74
96		4-Chlorotoluene	2.179	2.243	-2.9	81	0.00	6.83
97		tert-Butylbenzene	1.326	1.339	-1.0	77	0.00	6.99
98		a-Methyl styrene		----------NA----------				
99		1,2,4-Trimethylbenzene	2.234	2.262	-1.3	77	0.00	7.04
			Amount	Calc.	%Drift			
100		Pentachloroethane	40.000	48.114	-20.3#	94	0.00	6.99
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3658-CC3622
Lab FileID: 2P96273.D

101	sec-Butylbenzene	2.550	2.519	1.2	74	0.00	7.13
102	4-Isopropyltoluene	2.151	2.214	-2.9	76	0.00	7.24
103	1,3-Dichlorobenzene	1.146	1.201	-4.8	81	0.00	7.27
104	1,2,3-Trimethylbenzene	2.226	2.242	-0.7	78	0.00	7.37
105	1,4-Dichlorobenzene	1.202	1.229	-2.2	81	0.00	7.34
106	n-Butylbenzene	1.111	1.098	1.2	75	0.00	7.56
	----------	Amount	Calc.	%Drift	----------		
107	Benzyl Chloride	40.000	45.644	-14.1	87	0.00	7.52
	----------	AvgRF	CCRF	%Dev	----------		
108	1,2-Dichlorobenzene	1.083	1.136	-4.9	82	0.00	7.65
109	1,2-Dibromo-3-Chloropropa	0.215	0.245	-14.0	87	0.00	8.20
110	Hexachlorobutadiene	0.192	0.260	-35.4#	103	0.00	8.69
111	1,2,4-Trichlorobenzene	0.567	0.638	-12.5	87	0.00	8.68
112	Naphthalene	2.349	2.464	-4.9	80	0.00	8.88
113	1,2,3-Trichlorobenzene	0.530	0.630	-18.9	92	0.00	9.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2P94959.D V2P_2022-11-04.M Tue Dec 13 10:31:03 2022

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3658-ECC3622
Lab FileID: 2P96317.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ce...\V2P3658-59\2P96317.D Vial: 74
Acq On : 13 Dec 2022 9:58 pm Operator: courtnef
Sample : ECC3622-5 Inst : MSVOA13
Misc : MS52987,V2P3658,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\met...V2P_2022-11-04.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Nov 04 16:11:35 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Fluorobenzene	1.000	1.000	0.0	61	0.00	3.72
2	Dichlorodifluoromethane	0.190	0.244	-28.4	74	0.00	1.12
3 P	Chloromethane	0.214	0.224	-4.7	63	0.00	1.25
4	1,3-butadiene	0.223	0.187	16.1	51	0.00	1.32
5 C	Vinyl Chloride	0.233	0.210	9.9	54	0.00	1.30
6	Bromomethane	0.109	0.068	37.6	36#	0.00	1.51
		True	Calc.	% Drift			
7	Chloroethane	40.000	57.679	-44.2	87	0.00	1.58
		AvgRF	CCRF	% Dev			
8	Trichlorofluoromethane	0.262	0.247	5.7	59	0.00	1.67
9	Ethyl Ether	0.197	0.179	9.1	54	0.00	1.88
		True	Calc.	% Drift			
10	Ethanol	800.000	739.962	7.5	59	0.00	1.97
		AvgRF	CCRF	% Dev			
11	1,2-Dichlorotrifluoroetha	0.226	0.236	-4.4	61	0.00	1.97
12 C	1,1-Dichloroethene	0.277	0.316	-14.1	66	0.00	1.98
13	Freon 113	0.167	0.186	-11.4	66	0.00	2.02
14	Carbon Disulfide	0.520	0.546	-5.0	63	0.00	2.00
		True	Calc.	% Drift			
15	Iodomethane	40.000	42.453	-6.1	59	0.00	2.06
		AvgRF	CCRF	% Dev			
16	Acrolein	0.061	0.064	-4.9	63	0.00	2.16
		True	Calc.	% Drift			
17	Allyl chloride	40.000	44.391	-11.0	66	0.00	2.25
18	Methylene Chloride	40.000	34.125	14.7	47	0.00	2.30
19	Acetone	200.000	179.021	10.5	57	0.00	2.32
		AvgRF	CCRF	% Dev			
20	Methyl acetate	0.290	0.262	9.7	55	0.00	2.40
21	trans-1,2-Dichloroethene	0.276	0.299	-8.3	62	0.00	2.40
		True	Calc.	% Drift			
22	Hexane	40.000	35.230	11.9	52	0.00	2.47
		AvgRF	CCRF	% Dev			

Continuing Calibration Summary

Job Number: FC1200 **Sample:** V2P3658-ECC3622
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 2P96317.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

23		Methyl Tert Butyl Ether	0.651	0.744	-14.3	67	0.00	2.47
24		Tert Butyl Alcohol	0.068	0.074	-8.8	68	0.00	2.51
			True	Calc.	% Drift			
25		Acetonitrile	400.000	322.651	19.3	58	0.00	2.55
			AvgRF	CCRF	% Dev			
26		Di-isopropyl ether	0.671	0.661	1.5	58	0.00	2.69
27		Chloroprene	0.992	0.917	7.6	56	0.00	2.73
28	P	1,1-Dichloroethane	0.359	0.384	-7.0	63	0.00	2.73
29		Acrylonitrile	0.131	0.119	9.2	56	0.00	2.73
30		ETBE	0.656	0.694	-5.8	62	0.00	2.88
			True	Calc.	% Drift			
31		Vinyl acetate	200.000	173.158	13.4	52	0.00	2.86
			AvgRF	CCRF	% Dev			
32		cis-1,2-Dichloroethene	0.199	0.217	-9.0	64	0.00	3.02
33		2,2-Dichloropropane	0.295	0.321	-8.8	62	0.00	3.08
34		Bromochloromethane	0.082	0.097	-18.3	69	0.00	3.12
35		Cyclohexane	0.323	0.321	0.6	56	0.00	3.16
36	C	Chloroform	0.353	0.411	-16.4	68	0.00	3.17
37		Ethyl acetate	0.364	0.336	7.7	56	0.00	3.22
38		Tetrahydrofuran	0.143	0.133	7.0	58	0.00	3.26
39	S	Dibromofluoromethane	0.209	0.229	-9.6	65	0.00	3.26
40		Carbon Tetrachloride	0.220	0.306	-39.1	78	0.00	3.27
41		1,1,1-Trichloroethane	0.292	0.371	-27.1	72	0.00	3.29
42		2-Butanone	0.220	0.199	9.5	58	0.00	3.31
43		1,1-Dichloropropene	0.269	0.308	-14.5	66	0.00	3.36
			True	Calc.	% Drift			
44		tert-Butyl formate	200.000	237.801	-18.9	72	0.00	3.41
			AvgRF	CCRF	% Dev			
45		Propionitrile	0.059	0.059	0.0	60	0.00	3.46
46		Methacrylonitrile	0.206	0.181	12.1	51	0.00	3.48
47		Benzene	0.857	0.829	3.3	57	0.00	3.49
48		TAME	0.620	0.673	-8.5	63	0.00	3.56
49	S	1,2-Dichloroethane-d4	0.301	0.324	-7.6	65	0.00	3.55
50		Isobutyl alcohol	0.037	0.033	10.8	53	0.00	3.60
51		1,2-Dichloroethane	0.291	0.329	-13.1	67	0.00	3.59
52		Tert Amyl Alcohol	0.054	0.058	-7.4	64	0.00	3.65
53		Trichloroethene	0.206	0.228	-10.7	66	0.00	3.83
54		Methylcyclohexane	0.288	0.306	-6.3	60	0.00	3.84
55		Dibromomethane	0.116	0.133	-14.7	67	0.00	4.05
56	C	1,2-Dichloropropane	0.206	0.216	-4.9	62	0.00	4.11
57		Bromodichloromethane	0.223	0.289	-29.6	74	0.00	4.14
58		Methyl methacrylate	0.244	0.242	0.8	56	0.00	4.23
59		1,4-Dioxane	0.005	0.006	-20.0	65	0.00	4.26
60		2-Chloroethyl vinyl ether	0.141	0.131	7.1	53	0.00	4.47
			True	Calc.	% Drift			
61		cis-1,3-Dichloropropene	40.000	45.025	-12.6	66	0.00	4.52
			AvgRF	CCRF	% Dev			
62	I	Chlorobenzene-d5	1.000	1.000	0.0	62	0.00	5.64
63	S	Toluene-d8	1.422	1.398	1.7	63	0.00	4.65
64	C	Toluene	1.292	1.337	-3.5	64	0.00	4.68

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3658-ECC3622
Lab FileID: 2P96317.D

			True	Calc.	% Drift			
65		2-Nitropropane	200.000	208.805	-4.4	62	0.00	4.77
			AvgRF	CCRF	% Dev			
66		4-Methyl-2-pentanone	0.554	0.487	12.1	56	0.00	4.89
67		trans-1,3-Dichloropropene	0.385	0.453	-17.7	67	0.00	4.91
68		Tetrachloroethene	0.256	0.329	-28.5	76	0.00	4.93
			True	Calc.	% Drift			
69		Ethyl methacrylate	40.000	41.668	-4.2	64	0.00	5.03
			AvgRF	CCRF	% Dev			
70		1,1,2-Trichloroethane	0.227	0.234	-3.1	63	0.00	5.02
			True	Calc.	% Drift			
71		Dibromochloromethane	40.000	51.124	-27.8	79	0.00	5.14
			AvgRF	CCRF	% Dev			
72		1,3-Dichloropropane	0.497	0.523	-5.2	64	0.00	5.19
73		1,2-Dibromoethane	0.261	0.292	-11.9	67	0.00	5.29
			True	Calc.	% Drift			
74		3,3-dimethyl-1-butanol	2000.000	1774.940	11.3	54	0.00	5.43
			AvgRF	CCRF	% Dev			
75		2-hexanone	0.592	0.495	16.4	51	0.00	5.43
76		1-Chlorohexane	0.407	0.389	4.4	57	0.00	5.65
77	C	Ethylbenzene	1.397	1.443	-3.3	63	0.00	5.68
78	P	Chlorobenzene	0.749	0.764	-2.0	63	0.00	5.65
79		1,1,1,2-Tetrachloroethane	0.228	0.298	-30.7	76	0.00	5.69
80		m,p-Xylene	1.096	1.163	-6.1	63	0.00	5.78
81		o-Xylene	1.081	1.163	-7.6	65	0.00	6.07
82		Styrene	0.776	0.851	-9.7	62	0.00	6.11
			True	Calc.	% Drift			
83	P	Bromoform	40.000	57.069	-42.7	89	0.00	6.12
			AvgRF	CCRF	% Dev			
84		Isopropylbenzene	1.232	1.344	-9.1	64	0.00	6.30
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	67	0.00	7.33
86	S	4-Bromofluorobenzene	0.766	0.824	-7.6	72	0.00	6.49
87		cis-1,4-Dichloro-2-butene	0.302	0.242	19.9	51	0.00	6.52
88		n-Propylbenzene	3.491	3.391	2.9	63	0.00	6.60
89		Bromobenzene	0.627	0.684	-9.1	71	0.00	6.57
90	P	1,1,2,2-Tetrachloroethane	0.976	0.907	7.1	62	0.00	6.63
91		1,3,5-Trimethylbenzene	2.322	2.368	-2.0	64	0.00	6.75
92		2-Chlorotoluene	2.093	2.069	1.1	64	0.00	6.71
93		trans-1,4-Dichloro-2-Bute	0.355	0.294	17.2	53	0.00	6.75
94		1,2,3-Trichloropropane	0.343	0.344	-0.3	70	0.00	6.72
95		Cyclohexanone	0.068	0.053	22.1	52	0.00	6.74
96		4-Chlorotoluene	2.179	2.180	-0.0	66	0.00	6.83
97		tert-Butylbenzene	1.326	1.369	-3.2	66	0.00	6.99
98		a-Methyl styrene	0.000	0.000	0.0	0#	-0.01	7.13
99		1,2,4-Trimethylbenzene	2.234	2.335	-4.5	67	0.00	7.04
			True	Calc.	% Drift			
100		Pentachloroethane	40.000	46.400	-16.0	76	0.00	6.99
			AvgRF	CCRF	% Dev			

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V2P3658-ECC3622
Lab FileID: 2P96317.D

101	sec-Butylbenzene	2.550	2.524	1.0	62	0.00	7.13
102	4-Isopropyltoluene	2.151	2.231	-3.7	64	0.00	7.24
103	1,3-Dichlorobenzene	1.146	1.205	-5.1	68	0.00	7.27
104	1,2,3-Trimethylbenzene	2.226	2.285	-2.7	67	0.00	7.37
105	1,4-Dichlorobenzene	1.202	1.222	-1.7	68	0.00	7.34
106	n-Butylbenzene	1.111	1.089	2.0	63	0.00	7.55
	----------	True	Calc.	% Drift	----------		
107	Benzyl Chloride	40.000	38.308	4.2	59	0.00	7.52
	----------	AvgRF	CCRF	% Dev	----------		
108	1,2-Dichlorobenzene	1.083	1.145	-5.7	69	0.00	7.65
109	1,2-Dibromo-3-Chloropropa	0.215	0.250	-16.3	75	0.00	8.20
110	Hexachlorobutadiene	0.192	0.253	-31.8	84	0.00	8.68
111	1,2,4-Trichlorobenzene	0.567	0.635	-12.0	73	0.00	8.68
112	Naphthalene	2.349	2.423	-3.2	66	0.00	8.88
113	1,2,3-Trichlorobenzene	0.530	0.612	-15.5	75	0.00	9.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2P94959.D V2P_2022-11-04.M Tue Dec 13 22:39:08 2022

Initial Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VI2765-ICC2765
Lab FileID: I753071.D

Response Factor Report MSVOA16

Method : C:\msdchem\1\met...2-11-30-APP9-I.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

Calibration Files
1 =I753067.D 2 =I753068.D 3 =I753069.D 4 =I753070.D
5 =I753071.D 6 =I753072.D 7 =I753073.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.267	0.256	0.218	0.202	0.216	0.214	0.202	0.225	11.53
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9986									
Response Ratio = 0.00000 + 0.22292 *A + -0.00974 *A^2									
3)P Chloromethane	0.295	0.302	0.260	0.268	0.279	0.259	0.253	0.274	6.98
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993									
Response Ratio = 0.00000 + 0.28136 *A + -0.01444 *A^2									
4)C Vinyl Chloride	0.276	0.267	0.238	0.242	0.256	0.237	0.233	0.250	6.59
5) 1,3-Butadiene	0.306	0.286	0.225	0.212	0.216	0.197	0.189	0.233	19.41
---- Linear regr., Force(0,0) ---- Coefficient = 0.9951									
Response Ratio = 0.00000 + 0.20138 *A									
6) Bromomethane	0.183	0.116	0.095	0.085	0.096	0.093	0.100	0.110	30.62
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9975									
Response Ratio = 0.00000 + 0.09302 *A + 0.00245 *A^2									
7) Chloroethane	0.173	0.157	0.124	0.125	0.129	0.117	0.113	0.134	16.71
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9986									
Response Ratio = 0.00000 + 0.13577 *A + -0.01184 *A^2									
8) Trichlorofluorome	0.338	0.337	0.290	0.284	0.308	0.257	0.237	0.293	13.01
9) Ethyl Ether	0.178	0.197	0.162	0.182	0.186	0.165	0.164	0.176	7.40
10) 1,2-Dichlorotrifl	0.262	0.254	0.220	0.238	0.248	0.235	0.216	0.239	7.13
11)C 1,1-Dichloroethen	0.354	0.328	0.290	0.316	0.326	0.314	0.291	0.317	7.03
12) Ethanol		0.010	0.010	0.009	0.010	0.009	0.008	0.009	10.92
13) Freon 113	0.188	0.180	0.151	0.155	0.176	0.160	0.144	0.165	9.98
14) Carbon Disulfide	0.606	0.595	0.486	0.538	0.550	0.531	0.495	0.543	8.35
15) Iodomethane	0.051	0.076	0.084	0.122	0.152	0.140	0.133	0.108	35.02
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9955									
Response Ratio = 0.00000 + 0.14369 *A + -0.00466 *A^2									
16) Acrolein	0.094	0.074	0.072	0.074	0.084	0.079	0.078	0.079	9.64
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9979									
Response Ratio = 0.00000 + 0.07813 *A + 0.00004 *A^2									
17) Allyl chloride	0.329	0.323	0.283	0.290	0.302	0.292	0.269	0.298	7.17
18) Methylene Chlorid	0.580	0.407	0.317	0.315	0.316	0.299	0.285	0.360	29.16
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9985									
Response Ratio = 0.00000 + 0.34360 *A + -0.03069 *A^2									
19) Acetone	0.205	0.164	0.144	0.146	0.163	0.150	0.152	0.160	13.11
20) Methyl acetate	0.257	0.311	0.255	0.292	0.321	0.308	0.320	0.295	9.53
21) trans-1,2-Dichlor	0.302	0.319	0.268	0.298	0.312	0.302	0.287	0.298	5.66
22) Hexane	0.099	0.122	0.109	0.110	0.123	0.116	0.098	0.111	9.23

Initial Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VI2765-ICC2765
Lab FileID: I753071.D

23)	Methyl Tert Butyl	0.517	0.580	0.480	0.529	0.562	0.538	0.544	0.536	6.03
24)	Tert butyl alcoho	0.096	0.091	0.090	0.091	0.100	0.096	0.094	0.094	3.72
25)	Acetonitrile	0.065	0.069	0.066	0.061	0.065	0.062	0.061	0.064	4.83
26)	Di-isopropyl ethe	0.634	0.671	0.600	0.658	0.694	0.674	0.672	0.658	4.75
27)	Chloroprene	0.275	0.263	0.254	0.263	0.282	0.278	0.267	0.269	3.68
28)P	1,1-Dichloroethan	0.371	0.404	0.340	0.371	0.388	0.374	0.360	0.372	5.43
29)	Acrylonitrile	0.034	0.116	0.125	0.136	0.168	0.152	0.155	0.127	35.35
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9958									
	Response Ratio = 0.00000 + 0.13948 *A + 0.00185 *A^2									
30)	ETBE	0.606	0.643	0.550	0.607	0.654	0.632	0.637	0.618	5.66
31)	Vinyl acetate	0.133	0.333	0.341	0.420	0.516	0.477	0.488	0.387	34.28
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9951									
	Response Ratio = 0.00000 + 0.41437 *A + 0.00839 *A^2									
32)	cis-1,2-Dichloroe	0.182	0.194	0.167	0.187	0.195	0.188	0.182	0.185	5.14
33)	2,2-Dichloropropa	0.322	0.325	0.268	0.299	0.314	0.295	0.282	0.301	7.08
34)	Bromochloromethan	0.070	0.092	0.076	0.085	0.085	0.080	0.078	0.081	9.02
35)	Cyclohexane	0.295	0.319	0.276	0.293	0.325	0.309	0.283	0.300	6.03
36)C	Chloroform	0.358	0.373	0.329	0.333	0.345	0.348	0.337	0.346	4.45
37)	Ethyl acetate	0.097	0.351	0.342	0.371	0.441	0.396	0.403	0.343	33.16
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9967									
	Response Ratio = 0.00000 + 0.38062 *A + 0.00270 *A^2									
38)	Tetrahydrofuran	0.254	0.194	0.172	0.178	0.182	0.174	0.177	0.190	15.27
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994									
	Response Ratio = 0.00000 + 0.18202 *A + -0.00328 *A^2									
39)S	Dibromofluorometh	0.269	0.265	0.267	0.267	0.267	0.265	0.268	0.267	0.60
40)	Carbon Tetrachlor	0.271	0.275	0.229	0.259	0.269	0.258	0.243	0.257	6.36
41)	1,1,1-Trichloroet	0.325	0.337	0.279	0.305	0.317	0.306	0.285	0.308	6.82
42)	2-Butanone	0.112	0.188	0.218	0.236	0.276	0.257	0.262	0.221	25.59
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9973									
	Response Ratio = 0.00000 + 0.23532 *A + 0.00307 *A^2									
43)	1,1-Dichloroprope	0.247	0.274	0.234	0.263	0.279	0.266	0.251	0.259	6.17
44)	tert-Butyl Format	0.230	0.200	0.177	0.191	0.216	0.203	0.204	0.203	8.32
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9981									
	Response Ratio = 0.00000 + 0.19889 *A + 0.00062 *A^2									
45)	Propionitrile	0.065	0.072	0.078	0.075	0.083	0.081	0.081	0.077	8.40
46)	Methacrylonitrile	0.229	0.242	0.236	0.220	0.239	0.232	0.233	0.233	3.07
47)	Benzene	0.747	0.799	0.677	0.760	0.786	0.755	0.722	0.749	5.44
48)	TAME	0.479	0.530	0.445	0.502	0.533	0.505	0.508	0.500	6.05
49)S	1,2-Dichloroethan	0.314	0.312	0.317	0.315	0.313	0.289	0.296	0.308	3.48
50)	Isobutyl alcohol	0.019	0.020	0.023	0.022	0.025	0.025	0.024	0.023	11.49
51)	1,2-Dichloroethan	0.284	0.319	0.269	0.290	0.298	0.282	0.280	0.289	5.49
52)	Tert Amyl Alcohol	0.075	0.078	0.077	0.080	0.088	0.085	0.084	0.081	5.93
53)	Trichloroethene	0.213	0.217	0.177	0.199	0.214	0.201	0.188	0.201	7.35
54)	Methylcyclohexane	0.249	0.222	0.211	0.214	0.250	0.233	0.209	0.227	7.64
55)	Dibromomethane	0.093	0.124	0.114	0.124	0.128	0.124	0.125	0.119	10.34
56)C	1,2-Dichloropropa	0.197	0.212	0.186	0.202	0.216	0.208	0.202	0.203	4.84
57)	Bromodichlorometh	0.223	0.257	0.225	0.240	0.249	0.244	0.243	0.240	5.19
58)	Methyl methacryla	0.185	0.183	0.209	0.244	0.249	0.258	0.221	14.99	
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9980									
	Response Ratio = 0.00000 + 0.20383 *A + 0.02888 *A^2									
59)	1,4-Dioxane	0.004	0.005	0.006	0.006	0.006	0.006	0.005	0.005	14.07
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9964									
	Response Ratio = 0.00000 + 0.00613 *A + -0.00001 *A^2									

Initial Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VI2765-ICC2765
Lab FileID: I753071.D

```
60)  2-Chloroethyl vin 0.130 0.147 0.140 0.155 0.178 0.167 0.168 0.155  11.12
61)  cis-1,3-Dichlorop 0.249 0.268 0.257 0.279 0.300 0.294 0.295 0.277   7.20

62) I   Chlorobenzene-d5      ----------------ISTD--------------------
63)S Toluene-d8        1.354 1.383 1.419 1.417 1.427 1.440 1.430 1.410   2.15
64)C Toluene           1.047 1.137 0.994 1.117 1.166 1.138 1.083 1.097   5.48
65)  2-Nitropropane    0.094 0.105 0.097 0.114 0.131 0.135 0.145 0.117  16.99
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9971
              Response Ratio = 0.00000 + 0.09914 *A + 0.00506 *A^2

66)  4-Methyl-2-pentan 0.515 0.582 0.598 0.623 0.705 0.656 0.661 0.620  10.02
67)  trans-1,3-Dichlor 0.273 0.331 0.298 0.360 0.387 0.380 0.378 0.344  12.92
68)  Tetrachloroethene 0.264 0.312 0.270 0.306 0.322 0.314 0.291 0.297   7.62
69)  Ethyl methacrylat 0.156 0.290 0.334 0.339 0.385 0.389 0.395 0.327  25.83
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 0.33526 *A + 0.03315 *A^2

70)  1,1,2-Trichloroet 0.180 0.225 0.190 0.213 0.226 0.222 0.217 0.210   8.64
71)  Dibromochlorometh 0.194 0.271 0.239 0.271 0.293 0.287 0.292 0.264  13.68
72)  1,3-Dichloropropa 0.312 0.421 0.366 0.410 0.448 0.437 0.434 0.404  12.04
73)  1,2-Dibromoethane 0.212 0.289 0.243 0.267 0.289 0.278 0.283 0.266  10.69
74)  3,3-dimethyl-1-bu 0.137 0.096 0.110 0.128 0.144 0.142 0.137 0.128  14.07
75)  2-hexanone        0.328 0.457 0.495 0.540 0.617 0.549 0.553 0.506  18.35
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9970
              Response Ratio = 0.00000 + 0.54985 *A + 0.00088 *A^2

76)  1-Chlorohexane    0.371 0.290 0.275 0.318 0.349 0.340 0.318 0.323  10.34
77)C Ethylbenzene      1.233 1.227 1.113 1.237 1.293 1.260 1.195 1.223   4.66
78)P Chlorobenzene     0.678 0.704 0.624 0.701 0.732 0.699 0.672 0.687   4.96
79)  1,1,1,2-Tetrachlo 0.224 0.243 0.229 0.258 0.275 0.264 0.257 0.250   7.43
80)  m,p-Xylene        0.842 0.862 0.801 0.935 0.986 0.963 0.922 0.902   7.51
81)  o-Xylene          0.732 0.876 0.766 0.896 0.962 0.940 0.914 0.869  10.04
82)  Styrene           0.442 0.594 0.541 0.643 0.709 0.708 0.689 0.618  16.08
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9979
              Response Ratio = 0.00000 + 0.63700 *A + 0.03437 *A^2

83)P Bromoform         0.133 0.178 0.166 0.194 0.224 0.221 0.229 0.192  18.38
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9981
              Response Ratio = 0.00000 + 0.18924 *A + 0.02133 *A^2

84)  Isopropylbenzene  0.994 1.002 0.941 1.077 1.173 1.150 1.091 1.061   8.07

85) I   1,4-Dichlorobenzene-d ----------------ISTD--------------------
86)S 4-Bromofluorobenz 0.823 0.837 0.836 0.831 0.818 0.807 0.808 0.823   1.53
87)  cis-1,4-Dichloro- 0.171 0.243 0.267 0.273 0.318 0.320 0.324 0.274  20.11
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
              Response Ratio = 0.00000 + 0.27449 *A + 0.02746 *A^2

88)  n-Propylbenzene   2.565 2.742 2.384 2.721 2.854 2.756 2.581 2.658   5.93
89)  Bromobenzene      0.537 0.608 0.532 0.590 0.614 0.589 0.565 0.576   5.68
90)P 1,1,2,2-Tetrachlo 0.851 0.952 0.812 0.875 0.946 0.892 0.896 0.889   5.59
91)  1,3,5-Trimethylbe 1.584 1.759 1.572 1.863 1.982 1.903 1.824 1.784   8.77
92)  2-Chlorotoluene   1.760 1.777 1.581 1.816 1.871 1.775 1.715 1.756   5.19
93)  trans-1,4-Dichlor       0.228 0.243 0.259 0.313 0.300 0.304 0.275  12.98
94)  1,2,3-Trichloropr 0.240 0.289 0.258 0.288 0.302 0.285 0.287 0.278   7.75
95)  Cyclohexanone     0.053 0.082 0.084 0.086 0.106 0.094 0.086 0.085  18.81
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9948
              Response Ratio = 0.00000 + 0.09600 *A + -0.00070 *A^2
```

Initial Calibration Summary

Job Number: FC1200
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Sample: VI2765-ICC2765
Lab FileID: I753071.D

96)	4-Chlorotoluene	1.442	1.631	1.347	1.558	1.667	1.610	1.560	1.545	7.32
97)	tert-Butylbenzene	0.976	1.010	0.868	1.001	1.074	1.043	0.978	0.993	6.60
98)	1,2,4-Trimethylbe	1.440	1.680	1.508	1.792	1.898	1.844	1.763	1.704	10.09
99)	Pentachloroethane	0.289	0.301	0.297	0.312	0.346	0.335	0.332	0.316	6.97
100)	sec-Butylbenzene	2.059	2.047	1.805	2.083	2.241	2.168	2.009	2.059	6.65
101)	4-Isopropyltoluen	1.496	1.646	1.501	1.800	1.907	1.861	1.744	1.708	9.70
102)	1,3-Dichlorobenze	0.939	1.037	0.878	0.973	1.044	1.017	1.002	0.984	6.04
103)	1,2,3-Trimethylbe	1.611	1.777	1.571	1.808	1.885	1.799	1.764	1.745	6.46
104)	1,4-Dichlorobenze	1.142	1.152	1.014	1.081	1.139	1.072	1.054	1.093	4.79
105)	n-Butylbenzene	0.822	0.939	0.832	1.018	1.102	1.086	1.019	0.974	11.66
106)	Benzyl Chloride	0.105	0.254	0.245	0.283	0.328	0.326	0.329	0.267	29.91

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9979
Response Ratio = 0.00000 + 0.27725 *A + 0.02959 *A^2

107)	1,2-Dichlorobenze	0.890	1.030	0.851	0.964	1.012	0.984	0.968	0.957	6.72
108)	1,2-Dibromo-3-Chl	0.203	0.253	0.226	0.254	0.274	0.269	0.278	0.251	10.97
109)	Hexachlorobutadie	0.273	0.301	0.259	0.278	0.299	0.284	0.262	0.279	6.03
110)	1,2,4-Trichlorobe	0.564	0.581	0.537	0.619	0.654	0.648	0.636	0.606	7.44
111)	Naphthalene	1.674	2.074	1.810	2.118	2.361	2.300	2.356	2.099	12.91
112)	1,2,3-Trichlorobe	0.503	0.635	0.534	0.609	0.655	0.627	0.620	0.598	9.46

(#) = Out of Range

2022-11-30-APP9-I.m Wed Nov 30 15:07:55 2022

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VI2765-ICV2765
Lab FileID: I753075.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\2022-11-30\I753075.D Vial: 10
Acq On : 30 Nov 2022 2:19 pm Operator: kylieg
Sample : ICV2765-5 Inst : MSVOA16
Misc : MS52729,VI2765,,,,, Multiplr: 1.00
MS Integration Params: tiny.p

Method : C:\msdchem\1\met...2-11-30-APP9-I.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Nov 30 14:40:24 2022
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	103	0.00	8.34
		Amount	Calc.	%Drift			
2	Dichlorodifluoromethane		----------NA----------				
3 P	Chloromethane		----------NA----------				
		AvgRF	CCRF	%Dev			
4 C	Vinyl Chloride	0.250	0.204	18.4	82	0.00	2.86
		Amount	Calc.	%Drift			
5	1,3-Butadiene	40.000	32.198	19.5	77	0.00	2.90
6	Bromomethane	40.000	35.342	11.6	90	0.00	3.39
7	Chloroethane	40.000	34.578	13.6	88	0.00	3.58
		AvgRF	CCRF	%Dev			
8	Trichlorofluoromethane	0.293	0.274	6.5	92	0.00	3.79
9	Ethyl Ether	0.176	0.161	8.5	89	0.00	4.31
10	1,2-Dichlorotrifluoroetha	0.239	0.213	10.9	89	0.00	4.56
11 C	1,1-Dichloroethene	0.317	0.307	3.2	97	0.00	4.56
12	Ethanol	0.009	0.009	0.0	92	0.02	4.57
13	Freon 113	0.165	0.144	12.7	85	0.00	4.62
14	Carbon Disulfide	0.543	0.485	10.7	91	0.00	4.60
		Amount	Calc.	%Drift			
15	Iodomethane		----------NA----------				
16	Acrolein	200.000	43.465	78.3#	21	0.01	5.02
		AvgRF	CCRF	%Dev			
17	Allyl chloride	0.298	0.265	11.1	91	0.00	5.20
		Amount	Calc.	%Drift			
18	Methylene Chloride	40.000	35.421	11.4	93	0.00	5.34
		AvgRF	CCRF	%Dev			
19	Acetone	0.160	0.155	3.1	98	0.00	5.40
20	Methyl acetate	0.295	0.298	-1.0	96	0.00	5.56
21	trans-1,2-Dichloroethene	0.298	0.284	4.7	94	0.00	5.56
22	Hexane	0.111	0.101	9.0	85	0.00	5.66
23	Methyl Tert Butyl Ether	0.536	0.520	3.0	96	0.00	5.69
24	Tert butyl alcohol	0.094	0.094	0.0	98	0.00	5.82
25	Acetonitrile	0.064	0.054	15.6	86	0.00	5.96
26	Di-isopropyl ether	0.658	0.639	2.9	95	0.00	6.15

Initial Calibration Verification

Job Number: FC1200
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Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VI2765-ICV2765
Lab FileID: I753075.D

27		Chloroprene	0.269	0.264	1.9	97	0.00	6.27
28	P	1,1-Dichloroethane	0.372	0.365	1.9	97	0.00	6.30
			Amount	Calc.	%Drift			
29		Acrylonitrile	200.000	100.348	49.8#	44	0.01	6.35
			AvgRF	CCRF	%Dev			
30		ETBE	0.618	0.575	7.0	91	0.00	6.58
			Amount	Calc.	%Drift			
31		Vinyl acetate	200.000	225.543	-12.8	102	0.00	6.58
			AvgRF	CCRF	%Dev			
32		cis-1,2-Dichloroethene	0.185	0.180	2.7	95	0.00	6.95
33		2,2-Dichloropropane	0.301	0.273	9.3	90	0.00	7.06
34		Bromochloromethane	0.081	0.077	4.9	94	0.00	7.18
35		Cyclohexane	0.300	0.292	2.7	93	0.00	7.20
36	C	Chloroform	0.346	0.333	3.8	100	0.00	7.25
			Amount	Calc.	%Drift			
37		Ethyl acetate	200.000	206.346	-3.2	95	0.00	7.36
38		Tetrahydrofuran	40.000	37.917	5.2	96	0.00	7.44
			AvgRF	CCRF	%Dev			
39	S	Dibromofluoromethane	0.267	0.260	2.6	101	0.00	7.45
40		Carbon Tetrachloride	0.257	0.245	4.7	94	0.00	7.43
41		1,1,1-Trichloroethane	0.308	0.292	5.2	95	0.00	7.49
			Amount	Calc.	%Drift			
42		2-Butanone	200.000	199.632	0.2	93	0.00	7.57
			AvgRF	CCRF	%Dev			
43		1,1-Dichloropropene	0.259	0.250	3.5	93	0.00	7.63
			Amount	Calc.	%Drift			
44		tert-Butyl Formate	200.000	145.993	27.0#	70	0.00	7.73
			AvgRF	CCRF	%Dev			
45		Propionitrile	0.077	0.071	7.8	88	0.00	7.88
46		Methacrylonitrile	0.233	0.208	10.7	90	0.00	7.91
47		Benzene	0.749	0.709	5.3	93	0.00	7.90
48		TAME	0.500	0.522	-4.4	101	0.00	8.01
49	S	1,2-Dichloroethane-d4	0.308	0.296	3.9	98	0.00	8.04
50		Isobutyl alcohol	0.023	0.026	-13.0	105	0.00	8.10
51		1,2-Dichloroethane	0.289	0.275	4.8	96	0.00	8.11
52		Tert Amyl Alcohol	0.081	0.085	-4.9	100	0.00	8.20
53		Trichloroethene	0.201	0.192	4.5	93	0.00	8.53
54		Methylcyclohexane	0.227	0.223	1.8	92	0.00	8.53
55		Dibromomethane	0.119	0.115	3.4	92	0.00	8.97
56	C	1,2-Dichloropropane	0.203	0.185	8.9	89	0.00	9.05
57		Bromodichloromethane	0.240	0.239	0.4	99	0.00	9.12
			Amount	Calc.	%Drift			
58		Methyl methacrylate	40.000	40.258	-0.6	97	0.00	9.24
59		1,4-Dioxane	800.000	852.457	-6.6	105	0.00	9.32
			AvgRF	CCRF	%Dev			
60		2-Chloroethyl vinyl ether	0.155	0.159	-2.6	93	0.00	9.66
61		cis-1,3-Dichloropropene	0.277	0.271	2.2	93	0.00	9.75

Initial Calibration Verification

Job Number: FC1200
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Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VI2765-ICV2765
Lab FileID: I753075.D

62	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00	11.51
63	S	Toluene-d8	1.410	1.443	-2.3	101	0.00	9.94
64	C	Toluene	1.097	1.105	-0.7	95	0.00	10.00
			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	215.200	-7.6	99	0.00	10.20
			AvgRF	CCRF	%Dev			
66		4-Methyl-2-pentanone	0.620	0.633	-2.1	90	0.00	10.34
67		trans-1,3-Dichloropropene	0.344	0.394	-14.5	102	0.00	10.40
68		Tetrachloroethene	0.297	0.304	-2.4	94	0.00	10.41
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	36.901	7.7	86	0.00	10.52
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.210	0.217	-3.3	96	0.00	10.56
71		Dibromochloromethane	0.264	0.267	-1.1	91	0.00	10.76
72		1,3-Dichloropropane	0.404	0.396	2.0	89	0.00	10.84
73		1,2-Dibromoethane	0.266	0.268	-0.8	93	0.00	11.02
74		3,3-dimethyl-1-butanol	0.128	0.126	1.6	88	0.00	11.13
			Amount	Calc.	%Drift			
75		2-hexanone	200.000	199.780	0.1	90	0.00	11.16
			AvgRF	CCRF	%Dev			
76		1-Chlorohexane	0.323	0.328	-1.5	94	0.00	11.47
77	C	Ethylbenzene	1.223	1.208	1.2	94	0.00	11.53
78	P	Chlorobenzene	0.687	0.691	-0.6	95	0.00	11.53
79		1,1,1,2-Tetrachloroethane	0.250	0.259	-3.6	95	0.00	11.58
80		m,p-Xylene	0.902	0.921	-2.1	94	0.00	11.67
81		o-Xylene	0.869	0.925	-6.4	96	0.00	12.11
			Amount	Calc.	%Drift			
82		Styrene	40.000	39.658	0.9	93	0.00	12.16
83	P	Bromoform	40.000	41.544	-3.9	96	0.00	12.22
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.061	1.105	-4.1	94	0.00	12.42
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	13.88
86	S	4-Bromofluorobenzene	0.823	0.825	-0.2	99	0.00	12.72
			Amount	Calc.	%Drift			
87		cis-1,4-Dichloro-2-butene	40.000	38.181	4.5	87	0.00	12.76
			AvgRF	CCRF	%Dev			
88		n-Propylbenzene	2.658	2.718	-2.3	94	0.00	12.84
89		Bromobenzene	0.576	0.560	2.8	90	0.00	12.85
90	P	1,1,2,2-Tetrachloroethane	0.889	0.909	-2.2	94	0.00	12.90
91		1,3,5-Trimethylbenzene	1.784	1.865	-4.5	92	0.00	13.02
92		2-Chlorotoluene	1.756	1.787	-1.8	94	0.00	13.02
93		trans-1,4-Dichloro-2-Bute	0.275	0.299	-8.7	94	0.00	13.08
94		1,2,3-Trichloropropane	0.278	0.272	2.2	88	0.00	13.05
			Amount	Calc.	%Drift			
95		Cyclohexanone	200.000	191.385	4.3	83	0.00	13.11
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	1.545	1.616	-4.6	95	0.00	13.19

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VI2765-ICV2765
Lab FileID: I753075.D

97	tert-Butylbenzene	0.993	1.017	-2.4	93	0.00	13.36
98	1,2,4-Trimethylbenzene	1.704	1.836	-7.7	95	0.00	13.43
99	Pentachloroethane	0.316	0.319	-0.9	91	0.00	13.41
100	sec-Butylbenzene	2.059	2.209	-7.3	97	0.00	13.54
101	4-Isopropyltoluene	1.708	1.904	-11.5	98	0.00	13.68
102	1,3-Dichlorobenzene	0.984	1.012	-2.8	95	0.00	13.81
103	1,2,3-Trimethylbenzene	1.745	1.934	-10.8	101	0.00	13.89
104	1,4-Dichlorobenzene	1.093	1.086	0.6	94	0.00	13.90
105	n-Butylbenzene	0.974	0.992	-1.8	88	0.00	14.12
		Amount	Calc.	%Drift			
106	Benzyl Chloride	40.000	38.127	4.7	86	0.00	14.13
		AvgRF	CCRF	%Dev			
107	1,2-Dichlorobenzene	0.957	0.979	-2.3	95	0.00	14.33
108	1,2-Dibromo-3-Chloropropa	0.251	0.257	-2.4	92	0.00	15.08
109	Hexachlorobutadiene	0.279	0.264	5.4	87	0.00	15.65
110	1,2,4-Trichlorobenzene	0.606	0.624	-3.0	94	0.00	15.69
111	Naphthalene	2.099	2.259	-7.6	94	0.00	15.97
112	1,2,3-Trichlorobenzene	0.598	0.609	-1.8	91	0.00	16.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
I753071.D 2022-11-30-APP9-I.m Wed Nov 30 15:07:17 2022

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VI2765-ICV2765
Lab FileID: I753076.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\2022-11-30\I753076.D Vial: 11
Acq On : 30 Nov 2022 2:42 pm Operator: kylieg
Sample : ICV2765-4 Inst : MSVOA16
Misc : MS52729,VI2765,,,,, Multiplr: 1.00
MS Integration Params: tiny.p

Method : C:\msdchem\1\met...2-11-30-APP9-I.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Nov 30 14:40:24 2022
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	103	0.00	8.34
		Amount	Calc.	%Drift			
2	Dichlorodifluoromethane	25.000	23.025	7.9	103	0.00	2.39
3 P	Chloromethane	25.000	20.806	16.8	88	0.01	2.71
		AvgRF	CCRF	%Dev			
4 C	Vinyl Chloride			NA			
		Amount	Calc.	%Drift			
5	1,3-Butadiene			NA			
6	Bromomethane			NA			
7	Chloroethane			NA			
		AvgRF	CCRF	%Dev			
8	Trichlorofluoromethane			NA			
9	Ethyl Ether			NA			
10	1,2-Dichlorotrifluoroetha			NA			
11 C	1,1-Dichloroethene			NA			
12	Ethanol			NA			
13	Freon 113			NA			
14	Carbon Disulfide			NA			
		Amount	Calc.	%Drift			
15	Iodomethane	25.000	17.699	29.2#	85	0.00	4.76
16	Acrolein			NA			
		AvgRF	CCRF	%Dev			
17	Allyl chloride			NA			
		Amount	Calc.	%Drift			
18	Methylene Chloride			NA			
		AvgRF	CCRF	%Dev			
19	Acetone			NA			
20	Methyl acetate			NA			
21	trans-1,2-Dichloroethene			NA			
22	Hexane			NA			
23	Methyl Tert Butyl Ether			NA			
24	Tert butyl alcohol			NA			
25	Acetonitrile			NA			
26	Di-isopropyl ether			NA			

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VI2765-ICV2765
Lab FileID: I753076.D

27		Chloroprene			NA				
28	P	1,1-Dichloroethane			NA				
			Amount	Calc.	%Drift				
29		Acrylonitrile			NA				
			AvgRF	CCRF	%Dev				
30		ETBE			NA				
			Amount	Calc.	%Drift				
31		Vinyl acetate			NA				
			AvgRF	CCRF	%Dev				
32		cis-1,2-Dichloroethene			NA				
33		2,2-Dichloropropane			NA				
34		Bromochloromethane			NA				
35		Cyclohexane			NA				
36	C	Chloroform			NA				
			Amount	Calc.	%Drift				
37		Ethyl acetate			NA				
38		Tetrahydrofuran			NA				
			AvgRF	CCRF	%Dev				
39	S	Dibromofluoromethane	0.267	0.260	2.6	100	0.00	7.45	
40		Carbon Tetrachloride			NA				
41		1,1,1-Trichloroethane			NA				
			Amount	Calc.	%Drift				
42		2-Butanone			NA				
			AvgRF	CCRF	%Dev				
43		1,1-Dichloropropene			NA				
			Amount	Calc.	%Drift				
44		tert-Butyl Formate			NA				
			AvgRF	CCRF	%Dev				
45		Propionitrile			NA				
46		Methacrylonitrile			NA				
47		Benzene			NA				
48		TAME			NA				
49	S	1,2-Dichloroethane-d4	0.308	0.307	0.3	101	0.00	8.04	
50		Isobutyl alcohol			NA				
51		1,2-Dichloroethane			NA				
52		Tert Amyl Alcohol			NA				
53		Trichloroethene			NA				
54		Methylcyclohexane			NA				
55		Dibromomethane			NA				
56	C	1,2-Dichloropropane			NA				
57		Bromodichloromethane			NA				
			Amount	Calc.	%Drift				
58		Methyl methacrylate			NA				
59		1,4-Dioxane			NA				
			AvgRF	CCRF	%Dev				
60		2-Chloroethyl vinyl ether			NA				
61		cis-1,3-Dichloropropene			NA				

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VI2765-ICV2765
Lab FileID: I753076.D

62	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00	11.51
63	S	Toluene-d8	1.410	1.459	-3.5	102	0.00	9.94
64	C	Toluene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
65		2-Nitropropane		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
66		4-Methyl-2-pentanone		----------NA----------				
67		trans-1,3-Dichloropropene		----------NA----------				
68		Tetrachloroethene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
69		Ethyl methacrylate		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
70		1,1,2-Trichloroethane		----------NA----------				
71		Dibromochloromethane		----------NA----------				
72		1,3-Dichloropropane		----------NA----------				
73		1,2-Dibromoethane		----------NA----------				
74		3,3-dimethyl-1-butanol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
75		2-hexanone		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
76		1-Chlorohexane		----------NA----------				
77	C	Ethylbenzene		----------NA----------				
78	P	Chlorobenzene		----------NA----------				
79		1,1,1,2-Tetrachloroethane		----------NA----------				
80		m,p-Xylene		----------NA----------				
81		o-Xylene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
82		Styrene		----------NA----------				
83	P	Bromoform		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
84		Isopropylbenzene		----------NA----------				
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	13.88
86	S	4-Bromofluorobenzene	0.823	0.827	-0.5	98	0.00	12.73
		----------	Amount	Calc.	%Drift	----------		
87		cis-1,4-Dichloro-2-butene		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
88		n-Propylbenzene		----------NA----------				
89		Bromobenzene		----------NA----------				
90	P	1,1,2,2-Tetrachloroethane		----------NA----------				
91		1,3,5-Trimethylbenzene		----------NA----------				
92		2-Chlorotoluene		----------NA----------				
93		trans-1,4-Dichloro-2-Bute		----------NA----------				
94		1,2,3-Trichloropropane		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
95		Cyclohexanone		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
96		4-Chlorotoluene		----------NA----------				

Initial Calibration Verification

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VI2765-ICV2765
Lab FileID: I753076.D

```
 97     tert-Butylbenzene                   ----------NA----------
 98     1,2,4-Trimethylbenzene              ----------NA----------
 99     Pentachloroethane                   ----------NA----------
100     sec-Butylbenzene                    ----------NA----------
101     4-Isopropyltoluene                  ----------NA----------
102     1,3-Dichlorobenzene                 ----------NA----------
103     1,2,3-Trimethylbenzene              ----------NA----------
104     1,4-Dichlorobenzene                 ----------NA----------
105     n-Butylbenzene                      ----------NA----------

            ----------------------- Amount  Calc.    %Drift   -------------
106     Benzyl Chloride                     ----------NA----------

            ----------------------- AvgRF   CCRF      %Dev   --------------
107     1,2-Dichlorobenzene                 ----------NA----------
108     1,2-Dibromo-3-Chloropropa           ----------NA----------
109     Hexachlorobutadiene                 ----------NA----------
110     1,2,4-Trichlorobenzene              ----------NA----------
111     Naphthalene                         ----------NA----------
112     1,2,3-Trichlorobenzene              ----------NA----------
 ------------------------------------------------------------------------------
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   (#) = Out of Range               SPCC's out = 3  CCC's out = 6
    I753070.D  2022-11-30-APP9-I.m       Wed Nov 30 15:05:31 2022
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Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VI2788-CC2765
Lab FileID: I753616.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jo...2022\vi2788\I753616.d Vial: 2
Acq On : 15 Dec 2022 9:44 am Operator: kylieg
Sample : cc2765-5 Inst : MSVOA16
Misc : MS52729,VI2788,,,,, Multiplr: 1.00
MS Integration Params: tiny.p

Method : C:\msdchem\1\met...2-11-30-APP9-I.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Nov 30 14:40:24 2022
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	62	0.00	8.34
			True	Calc.	% Drift			
2		Dichlorodifluoromethane	40.000	45.278	-13.2	70	0.00	2.39
3	P	Chloromethane	40.000	50.905	-27.3#	76	0.00	2.71
			AvgRF	CCRF	% Dev			
4	C	Vinyl Chloride	0.250	0.290	-16.0	71	0.00	2.86
			True	Calc.	% Drift			
5		1,3-Butadiene	40.000	46.434	-16.1	67	0.00	2.90
6		Bromomethane	40.000	69.101	-72.8#	108	0.00	3.39
7		Chloroethane	40.000	72.173	-80.4#	103	0.00	3.58
			AvgRF	CCRF	% Dev			
8		Trichlorofluoromethane	0.293	0.389	-32.8#	79	0.02	3.81
9		Ethyl Ether	0.176	0.179	-1.7	60	0.00	4.29
10		1,2-Dichlorotrifluoroetha	0.239	0.270	-13.0	68	0.00	4.56
11	C	1,1-Dichloroethene	0.317	0.351	-10.7	67	0.00	4.56
12		Ethanol	0.009	0.007	22.2#	44#	-0.02	4.53
13		Freon 113	0.165	0.176	-6.7	62	0.00	4.62
14		Carbon Disulfide	0.543	0.586	-7.9	66	0.00	4.60
			True	Calc.	% Drift			
15		Iodomethane	40.000	90.445	-126.1#	125	0.00	4.75
16		Acrolein	200.000	187.629	6.2	54	0.00	5.01
			AvgRF	CCRF	% Dev			
17		Allyl chloride	0.298	0.345	-15.8	71	0.00	5.20
			True	Calc.	% Drift			
18		Methylene Chloride	40.000	44.054	-10.1	69	0.00	5.33
			AvgRF	CCRF	% Dev			
19		Acetone	0.160	0.146	8.8	56	0.00	5.38
20		Methyl acetate	0.295	0.279	5.4	54	0.00	5.55
21		trans-1,2-Dichloroethene	0.298	0.324	-8.7	65	0.00	5.56
22		Hexane	0.111	0.138	-24.3#	70	0.00	5.66
23		Methyl Tert Butyl Ether	0.536	0.579	-8.0	64	0.00	5.68
24		Tert butyl alcohol	0.094	0.079	16.0	50#	-0.02	5.80
25		Acetonitrile	0.064	0.056	12.5	54	0.00	5.95
26		Di-isopropyl ether	0.658	0.725	-10.2	65	0.00	6.15

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VI2788-CC2765
Lab FileID: I753616.D

27		Chloroprene	0.269	0.318	-18.2	70	0.00	6.27
28	P	1,1-Dichloroethane	0.372	0.408	-9.7	66	0.00	6.29
			True	Calc.	% Drift			
29		Acrylonitrile	200.000	193.156	3.4	52	0.00	6.34
			AvgRF	CCRF	% Dev			
30		ETBE	0.618	0.677	-9.5	65	0.00	6.57
			True	Calc.	% Drift			
31		Vinyl acetate	200.000	222.921	-11.5	61	0.00	6.58
			AvgRF	CCRF	% Dev			
32		cis-1,2-Dichloroethene	0.185	0.202	-9.2	65	0.00	6.95
33		2,2-Dichloropropane	0.301	0.332	-10.3	66	0.00	7.06
34		Bromochloromethane	0.081	0.101	-24.7#	74	0.00	7.18
35		Cyclohexane	0.300	0.329	-9.7	63	0.00	7.20
36	C	Chloroform	0.346	0.390	-12.7	70	0.00	7.24
			True	Calc.	% Drift			
37		Ethyl acetate	200.000	206.643	-3.3	57	0.00	7.35
38		Tetrahydrofuran	40.000	35.960	10.1	55	0.00	7.44
			AvgRF	CCRF	% Dev			
39	S	Dibromofluoromethane	0.267	0.280	-4.9	65	0.00	7.45
40		Carbon Tetrachloride	0.257	0.302	-17.5	70	0.00	7.43
41		1,1,1-Trichloroethane	0.308	0.342	-11.0	67	0.00	7.49
			True	Calc.	% Drift			
42		2-Butanone	200.000	187.016	6.5	52	0.00	7.57
			AvgRF	CCRF	% Dev			
43		1,1-Dichloropropene	0.259	0.287	-10.8	64	0.00	7.63
			True	Calc.	% Drift			
44		tert-Butyl Formate	200.000	216.282	-8.1	63	0.00	7.73
			AvgRF	CCRF	% Dev			
45		Propionitrile	0.077	0.073	5.2	55	0.00	7.88
46		Methacrylonitrile	0.233	0.253	-8.6	66	0.00	7.91
47		Benzene	0.749	0.818	-9.2	65	0.00	7.90
48		TAME	0.500	0.549	-9.8	64	0.00	8.00
49	S	1,2-Dichloroethane-d4	0.308	0.321	-4.2	64	0.00	8.04
50		Isobutyl alcohol	0.023	0.020	13.0	50	-0.01	8.08
51		1,2-Dichloroethane	0.289	0.333	-15.2	70	0.00	8.11
52		Tert Amyl Alcohol	0.081	0.068	16.0	48#	0.00	8.19
53		Trichloroethene	0.201	0.221	-10.0	64	0.00	8.53
54		Methylcyclohexane	0.227	0.232	-2.2	58	0.00	8.53
55		Dibromomethane	0.119	0.137	-15.1	66	0.00	8.97
56	C	1,2-Dichloropropane	0.203	0.229	-12.8	66	0.00	9.05
57		Bromodichloromethane	0.240	0.275	-14.6	69	0.00	9.12
			True	Calc.	% Drift			
58		Methyl methacrylate	40.000	44.853	-12.1	66	0.00	9.24
59		1,4-Dioxane	800.000	496.425	37.9#	38	0.00	9.31
			AvgRF	CCRF	% Dev			
60		2-Chloroethyl vinyl ether	0.155	0.175	-12.9	62	0.00	9.66
61		cis-1,3-Dichloropropene	0.277	0.317	-14.4	66	0.00	9.75

Continuing Calibration Summary

Job Number: FC1200 **Sample:** VI2788-CC2765
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** I753616.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

62	I	Chlorobenzene-d5	1.000	1.000	0.0	71	0.00	11.51
63	S	Toluene-d8	1.410	1.292	8.4	65	0.00	9.94
64	C	Toluene	1.097	1.056	3.7	65	0.00	10.00
			True	Calc.	% Drift			
65		2-Nitropropane	200.000	204.050	-2.0	66	0.00	10.20
			AvgRF	CCRF	% Dev			
66		4-Methyl-2-pentanone	0.620	0.610	1.6	62	0.00	10.33
67		trans-1,3-Dichloropropene	0.344	0.369	-7.3	68	0.00	10.40
68		Tetrachloroethene	0.297	0.302	-1.7	67	0.00	10.41
			True	Calc.	% Drift			
69		Ethyl methacrylate	40.000	40.323	-0.8	68	0.00	10.52
			AvgRF	CCRF	% Dev			
70		1,1,2-Trichloroethane	0.210	0.210	0.0	66	0.00	10.56
71		Dibromochloromethane	0.264	0.279	-5.7	68	0.00	10.76
72		1,3-Dichloropropane	0.404	0.402	0.5	64	0.00	10.84
73		1,2-Dibromoethane	0.266	0.263	1.1	65	0.00	11.02
74		3,3-dimethyl-1-butanol	0.128	0.092	28.1#	46#	0.00	11.12
			True	Calc.	% Drift			
75		2-hexanone	200.000	181.637	9.2	58	0.00	11.16
			AvgRF	CCRF	% Dev			
76		1-Chlorohexane	0.323	0.320	0.9	65	0.00	11.47
77	C	Ethylbenzene	1.223	1.208	1.2	67	0.00	11.53
78	P	Chlorobenzene	0.687	0.687	0.0	67	0.00	11.53
79		1,1,1,2-Tetrachloroethane	0.250	0.262	-4.8	68	0.00	11.58
80		m,p-Xylene	0.902	0.923	-2.3	67	0.00	11.67
81		o-Xylene	0.869	0.886	-2.0	66	0.00	12.11
			True	Calc.	% Drift			
82		Styrene	40.000	39.441	1.4	66	0.00	12.16
83	P	Bromoform	40.000	42.756	-6.9	71	0.00	12.21
			AvgRF	CCRF	% Dev			
84		Isopropylbenzene	1.061	1.084	-2.2	66	0.00	12.41
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	76	0.00	13.88
86	S	4-Bromofluorobenzene	0.823	0.795	3.4	74	0.00	12.72
			True	Calc.	% Drift			
87		cis-1,4-Dichloro-2-butene	40.000	40.994	-2.5	73	0.00	12.76
			AvgRF	CCRF	% Dev			
88		n-Propylbenzene	2.658	2.517	5.3	67	0.00	12.83
89		Bromobenzene	0.576	0.555	3.6	68	0.00	12.85
90	P	1,1,2,2-Tetrachloroethane	0.889	0.826	7.1	66	0.00	12.90
91		1,3,5-Trimethylbenzene	1.784	1.759	1.4	67	0.00	13.02
92		2-Chlorotoluene	1.756	1.691	3.7	69	0.00	13.02
93		trans-1,4-Dichloro-2-Bute	0.275	0.259	5.8	63	0.00	13.08
94		1,2,3-Trichloropropane	0.278	0.260	6.5	65	0.00	13.05
			True	Calc.	% Drift			
95		Cyclohexanone	200.000	117.856	41.1#	40	0.00	13.11
			AvgRF	CCRF	% Dev			
96		4-Chlorotoluene	1.545	1.486	3.8	68	0.00	13.19

Continuing Calibration Summary

Job Number: FC1200 **Sample:** VI2788-CC2765
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** I753616.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

97	tert-Butylbenzene	0.993	0.939	5.4	66	0.00	13.36
98	1,2,4-Trimethylbenzene	1.704	1.694	0.6	68	0.00	13.43
99	Pentachloroethane	0.316	0.329	-4.1	72	0.00	13.41
100	sec-Butylbenzene	2.059	1.979	3.9	67	0.00	13.54
101	4-Isopropyltoluene	1.708	1.708	0.0	68	0.00	13.68
102	1,3-Dichlorobenzene	0.984	0.956	2.8	69	0.00	13.80
103	1,2,3-Trimethylbenzene	1.745	1.678	3.8	67	0.00	13.89
104	1,4-Dichlorobenzene	1.093	1.029	5.9	68	0.00	13.90
105	n-Butylbenzene	0.974	0.989	-1.5	68	0.00	14.12
		True	Calc.	% Drift			
106	Benzyl Chloride	40.000	37.850	5.4	66	0.00	14.13
		AvgRF	CCRF	% Dev			
107	1,2-Dichlorobenzene	0.957	0.952	0.5	71	0.00	14.33
108	1,2-Dibromo-3-Chloropropa	0.251	0.215	14.3	59	0.00	15.08
109	Hexachlorobutadiene	0.279	0.279	0.0	71	0.00	15.65
110	1,2,4-Trichlorobenzene	0.606	0.605	0.2	70	0.00	15.69
111	Naphthalene	2.099	2.046	2.5	66	0.00	15.97
112	1,2,3-Trichlorobenzene	0.598	0.614	-2.7	71	0.00	16.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
I753071.D 2022-11-30-APP9-I.m Fri Dec 16 00:18:22 2022

Continuing Calibration Summary

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VI2788-ECC2765
Lab FileID: I753638.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jo...2022\vi2788\I753638.d Vial: 24
Acq On : 15 Dec 2022 6:23 pm Operator: kylieg
Sample : ECC2765-5 Inst : MSVOA16
Misc : MS52729,VI2788,,,,, Multiplr: 1.00
MS Integration Params: tiny.p

Method : C:\msdchem\1\met...2-11-30-APP9-I.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Nov 30 14:40:24 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Fluorobenzene	1.000	1.000	0.0	66	0.00	8.34
		True	Calc.	% Drift			
2	Dichlorodifluoromethane	40.000	38.950	2.6	64	0.00	2.39
3 P	Chloromethane	40.000	44.256	-10.6	70	0.00	2.71
		AvgRF	CCRF	% Dev			
4 C	Vinyl Chloride	0.250	0.250	0.0	64	0.00	2.86
		True	Calc.	% Drift			
5	1,3-Butadiene	40.000	47.096	-17.7	72	0.00	2.90
6	Bromomethane	40.000	48.531	-21.3	79	0.00	3.39
7	Chloroethane	40.000	59.327	-48.3	91	0.00	3.59
		AvgRF	CCRF	% Dev			
8	Trichlorofluoromethane	0.293	0.317	-8.2	67	0.02	3.81
9	Ethyl Ether	0.176	0.166	5.7	58	0.00	4.30
10	1,2-Dichlorotrifluoroetha	0.239	0.238	0.4	63	0.00	4.56
11 C	1,1-Dichloroethene	0.317	0.308	2.8	62	0.00	4.56
12	Ethanol	0.009	0.006	33.3	42#	-0.01	4.53
13	Freon 113	0.165	0.149	9.7	56	0.00	4.62
14	Carbon Disulfide	0.543	0.507	6.6	60	0.00	4.60
		True	Calc.	% Drift			
15	Iodomethane	40.000	74.887	-87.2#	110	0.00	4.76
16	Acrolein	200.000	159.721	20.1	49	0.00	5.01
		AvgRF	CCRF	% Dev			
17	Allyl chloride	0.298	0.307	-3.0	67	0.00	5.20
		True	Calc.	% Drift			
18	Methylene Chloride	40.000	40.454	-1.1	67	0.00	5.34
		AvgRF	CCRF	% Dev			
19	Acetone	0.160	0.125	21.9	50	0.00	5.39
20	Methyl acetate	0.295	0.259	12.2	53	0.00	5.55
21	trans-1,2-Dichloroethene	0.298	0.286	4.0	60	0.00	5.56
22	Hexane	0.111	0.114	-2.7	61	0.01	5.67
23	Methyl Tert Butyl Ether	0.536	0.525	2.1	61	0.00	5.68
24	Tert butyl alcohol	0.094	0.074	21.3	49#	-0.02	5.80
25	Acetonitrile	0.064	0.052	18.8	52	0.00	5.96
26	Di-isopropyl ether	0.658	0.675	-2.6	64	0.00	6.15

Continuing Calibration Summary

Job Number: FC1200 **Sample:** VI2788-ECC2765
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** I753638.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

27		Chloroprene	0.269	0.277	-3.0	64	0.00	6.28
28	P	1,1-Dichloroethane	0.372	0.361	3.0	61	0.00	6.30
			True	Calc.	% Drift			
29		Acrylonitrile	200.000	176.652	11.7	50	0.00	6.34
			AvgRF	CCRF	% Dev			
30		ETBE	0.618	0.612	1.0	61	0.00	6.58
			True	Calc.	% Drift			
31		Vinyl acetate	200.000	200.852	-0.4	57	0.00	6.58
			AvgRF	CCRF	% Dev			
32		cis-1,2-Dichloroethene	0.185	0.181	2.2	61	0.00	6.95
33		2,2-Dichloropropane	0.301	0.267	11.3	56	0.00	7.06
34		Bromochloromethane	0.081	0.090	-11.1	70	0.00	7.18
35		Cyclohexane	0.300	0.292	2.7	59	0.00	7.20
36	C	Chloroform	0.346	0.352	-1.7	67	0.00	7.25
			True	Calc.	% Drift			
37		Ethyl acetate	200.000	193.661	3.2	56	0.00	7.35
38		Tetrahydrofuran	40.000	33.860	15.4	55	0.00	7.44
			AvgRF	CCRF	% Dev			
39	S	Dibromofluoromethane	0.267	0.280	-4.9	69	0.00	7.45
40		Carbon Tetrachloride	0.257	0.265	-3.1	65	0.00	7.43
41		1,1,1-Trichloroethane	0.308	0.305	1.0	63	0.00	7.49
			True	Calc.	% Drift			
42		2-Butanone	200.000	169.502	15.2	50	0.00	7.57
			AvgRF	CCRF	% Dev			
43		1,1-Dichloropropene	0.259	0.250	3.5	59	0.00	7.63
			True	Calc.	% Drift			
44		tert-Butyl Formate	200.000	200.046	-0.0	61	0.00	7.73
			AvgRF	CCRF	% Dev			
45		Propionitrile	0.077	0.068	11.7	53	0.00	7.88
46		Methacrylonitrile	0.233	0.235	-0.9	65	0.00	7.91
47		Benzene	0.749	0.733	2.1	61	0.00	7.90
48		TAME	0.500	0.501	-0.2	62	0.00	8.01
49	S	1,2-Dichloroethane-d4	0.308	0.336	-9.1	70	0.00	8.04
50		Isobutyl alcohol	0.023	0.019	17.4	50	-0.01	8.08
51		1,2-Dichloroethane	0.289	0.303	-4.8	67	0.00	8.11
52		Tert Amyl Alcohol	0.081	0.064	21.0	47#	0.00	8.19
53		Trichloroethene	0.201	0.198	1.5	61	0.00	8.53
54		Methylcyclohexane	0.227	0.205	9.7	54	0.00	8.54
55		Dibromomethane	0.119	0.125	-5.0	64	0.00	8.98
56	C	1,2-Dichloropropane	0.203	0.202	0.5	62	0.00	9.05
57		Bromodichloromethane	0.240	0.249	-3.8	66	0.00	9.12
			True	Calc.	% Drift			
58		Methyl methacrylate	40.000	41.725	-4.3	64	0.00	9.24
59		1,4-Dioxane	800.000	472.805	40.9	38	0.00	9.31
			AvgRF	CCRF	% Dev			
60		2-Chloroethyl vinyl ether	0.155	0.156	-0.6	58	0.00	9.66
61		cis-1,3-Dichloropropene	0.277	0.283	-2.2	62	0.00	9.76

Continuing Calibration Summary

Job Number: FC1200 **Sample:** VI2788-ECC2765
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** I753638.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

62	I	Chlorobenzene-d5	1.000	1.000	0.0	76	0.00	11.51
63	S	Toluene-d8	1.410	1.285	8.9	68	0.00	9.94
64	C	Toluene	1.097	0.938	14.5	61	0.00	10.00
			True	Calc.	% Drift			
65		2-Nitropropane	200.000	191.642	4.2	66	0.00	10.20
			AvgRF	CCRF	% Dev			
66		4-Methyl-2-pentanone	0.620	0.542	12.6	58	0.00	10.33
67		trans-1,3-Dichloropropene	0.344	0.320	7.0	63	0.00	10.40
68		Tetrachloroethene	0.297	0.280	5.7	66	0.00	10.41
			True	Calc.	% Drift			
69		Ethyl methacrylate	40.000	36.724	8.2	65	0.00	10.52
			AvgRF	CCRF	% Dev			
70		1,1,2-Trichloroethane	0.210	0.189	10.0	64	0.00	10.56
71		Dibromochloromethane	0.264	0.252	4.5	65	0.00	10.76
72		1,3-Dichloropropane	0.404	0.368	8.9	63	0.00	10.84
73		1,2-Dibromoethane	0.266	0.236	11.3	62	0.00	11.02
74		3,3-dimethyl-1-butanol	0.128	0.089	30.5	47#	0.00	11.12
			True	Calc.	% Drift			
75		2-hexanone	200.000	162.345	18.8	55	0.00	11.16
			AvgRF	CCRF	% Dev			
76		1-Chlorohexane	0.323	0.275	14.9	60	0.00	11.47
77	C	Ethylbenzene	1.223	1.067	12.8	63	0.00	11.53
78	P	Chlorobenzene	0.687	0.606	11.8	63	0.00	11.53
79		1,1,1,2-Tetrachloroethane	0.250	0.234	6.4	65	0.00	11.58
80		m,p-Xylene	0.902	0.807	10.5	62	0.00	11.67
81		o-Xylene	0.869	0.780	10.2	62	0.00	12.11
			True	Calc.	% Drift			
82		Styrene	40.000	34.910	12.7	62	0.00	12.16
83	P	Bromoform	40.000	37.152	7.1	65	0.00	12.22
			AvgRF	CCRF	% Dev			
84		Isopropylbenzene	1.061	0.947	10.7	61	0.00	12.41
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	0.00	13.88
86	S	4-Bromofluorobenzene	0.823	0.794	3.5	79	0.00	12.72
			True	Calc.	% Drift			
87		cis-1,4-Dichloro-2-butene	40.000	31.388	21.5	59	0.00	12.76
			AvgRF	CCRF	% Dev			
88		n-Propylbenzene	2.658	2.175	18.2	62	0.00	12.84
89		Bromobenzene	0.576	0.495	14.1	66	0.00	12.85
90	P	1,1,2,2-Tetrachloroethane	0.889	0.727	18.2	63	0.00	12.90
91		1,3,5-Trimethylbenzene	1.784	1.516	15.0	62	0.00	13.02
92		2-Chlorotoluene	1.756	1.467	16.5	64	0.00	13.02
93		trans-1,4-Dichloro-2-Bute	0.275	0.198	28.0	52	0.00	13.08
94		1,2,3-Trichloropropane	0.278	0.234	15.8	63	0.00	13.05
			True	Calc.	% Drift			
95		Cyclohexanone	200.000	107.373	46.3	39	0.00	13.11
			AvgRF	CCRF	% Dev			
96		4-Chlorotoluene	1.545	1.260	18.4	62	0.00	13.19

Continuing Calibration Summary

Job Number: FC1200 **Sample:** VI2788-ECC2765
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** I753638.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

97	tert-Butylbenzene	0.993	0.813	18.1	62	0.00	13.36
98	1,2,4-Trimethylbenzene	1.704	1.471	13.7	63	0.00	13.43
99	Pentachloroethane	0.316	0.273	13.6	64	0.00	13.41
100	sec-Butylbenzene	2.059	1.718	16.6	62	0.00	13.54
101	4-Isopropyltoluene	1.708	1.453	14.9	62	0.00	13.68
102	1,3-Dichlorobenzene	0.984	0.833	15.3	65	0.00	13.81
103	1,2,3-Trimethylbenzene	1.745	1.482	15.1	64	0.00	13.89
104	1,4-Dichlorobenzene	1.093	0.909	16.8	65	0.00	13.90
105	n-Butylbenzene	0.974	0.830	14.8	61	0.00	14.12
		True	Calc.	% Drift			
106	Benzyl Chloride	40.000	28.357	29.1	52	0.00	14.13
		AvgRF	CCRF	% Dev			
107	1,2-Dichlorobenzene	0.957	0.818	14.5	66	0.00	14.33
108	1,2-Dibromo-3-Chloropropa	0.251	0.183	27.1	54	0.00	15.08
109	Hexachlorobutadiene	0.279	0.241	13.6	66	0.00	15.65
110	1,2,4-Trichlorobenzene	0.606	0.526	13.2	66	0.00	15.69
111	Naphthalene	2.099	1.774	15.5	61	0.00	15.97
112	1,2,3-Trichlorobenzene	0.598	0.522	12.7	65	0.00	16.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
I753071.D 2022-11-30-APP9-I.m Fri Dec 16 00:17:58 2022

Run Sequence Report

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V1A1696	**Method:** SW846 8260D	**Instrument ID:** GCMS1A

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V1A1696-BFB	1A42105.D	12/12/22 09:44	n/a	BFB Tune
V1A1696-IC1696	1A42106.D	12/12/22 10:35	n/a	Initial cal 1
V1A1696-IC1696	1A42107.D	12/12/22 12:27	n/a	Initial cal 2
V1A1696-IC1696	1A42108.D	12/12/22 12:51	n/a	Initial cal 3
V1A1696-IC1696	1A42109.D	12/12/22 13:14	n/a	Initial cal 4
V1A1696-ICC1696	1A42110.D	12/12/22 14:21	n/a	Initial cal 5
V1A1696-IC1696	1A42111.D	12/12/22 14:44	n/a	Initial cal 6
V1A1696-IC1696	1A42112.D	12/12/22 15:08	n/a	Initial cal 7
V1A1696-ICV1696	1A42114.D	12/12/22 15:56	n/a	Initial cal verification 5

Run Sequence Report

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V1A1697 **Method:** SW846 8260D **Instrument ID:** GCMS1A

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V1A1697-BFB	1A42119.D	12/13/22 09:03	n/a	BFB Tune
V1A1697-CC1696	1A42120.D	12/13/22 09:27	n/a	Continuing cal 5
V1A1697-BS	1A42121.D	12/13/22 09:50	n/a	Blank Spike
V1A1697-MB	1A42123.D	12/13/22 10:38	n/a	Method Blank
ZZZZZZ	1A42124.D	12/13/22 11:02	n/a	(unrelated sample)
ZZZZZZ	1A42125.D	12/13/22 11:26	n/a	(unrelated sample)
ZZZZZZ	1A42126.D	12/13/22 11:50	n/a	(unrelated sample)
ZZZZZZ	1A42127.D	12/13/22 12:13	n/a	(unrelated sample)
ZZZZZZ	1A42128.D	12/13/22 12:37	n/a	(unrelated sample)
ZZZZZZ	1A42129.D	12/13/22 13:01	n/a	(unrelated sample)
ZZZZZZ	1A42130.D	12/13/22 13:25	n/a	(unrelated sample)
ZZZZZZ	1A42132.D	12/13/22 14:12	n/a	(unrelated sample)
ZZZZZZ	1A42133.D	12/13/22 14:36	n/a	(unrelated sample)
ZZZZZZ	1A42134.D	12/13/22 15:00	n/a	(unrelated sample)
ZZZZZZ	1A42135.D	12/13/22 15:24	n/a	(unrelated sample)
ZZZZZZ	1A42136.D	12/13/22 15:48	n/a	(unrelated sample)
FC1200-23	1A42137.D	12/13/22 16:12	n/a	FDSA-MW0038-045.0-20221209
FC1200-24	1A42138.D	12/13/22 16:36	n/a	FDSA-MW0017D1-045.0-20221209
FC1200-26	1A42139.D	12/13/22 16:59	n/a	FDSA-MW0044-025.0-20221209
FC1200-27	1A42140.D	12/13/22 17:23	n/a	FDSA-MW0034-025.0-20221209
FC1200-28	1A42141.D	12/13/22 17:47	n/a	FDSA-MW0044-015.0-20221209
FC1200-29	1A42142.D	12/13/22 18:11	n/a	FDSA-MW0003S2-013.0-20221209
FC1200-25	1A42143.D	12/13/22 18:35	n/a	FDSA-MW0036-045.0-20221209
FC1200-25MS	1A42144.D	12/13/22 18:59	n/a	Matrix Spike
FC1200-25MSD	1A42145.D	12/13/22 19:23	n/a	Matrix Spike Duplicate
V1A1697-ECC1696	1A42146.D	12/13/22 19:46	n/a	Ending cal 5

Run Sequence Report

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V1A1698 **Method:** SW846 8260D **Instrument ID:** GCMS1A

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V1A1698-BFB	1A42149.D	12/14/22 09:45	n/a	BFB Tune
V1A1698-CC1696	1A42150.D	12/14/22 10:08	n/a	Continuing cal 5
V1A1698-BS	1A42151.D	12/14/22 10:32	n/a	Blank Spike
V1A1698-MB	1A42153.D	12/14/22 11:19	n/a	Method Blank
ZZZZZZ	1A42154.D	12/14/22 11:43	n/a	(unrelated sample)
ZZZZZZ	1A42155.D	12/14/22 12:07	n/a	(unrelated sample)
ZZZZZZ	1A42157.D	12/14/22 12:55	n/a	(unrelated sample)
ZZZZZZ	1A42158.D	12/14/22 13:18	n/a	(unrelated sample)
FC1102-12	1A42159.D	12/14/22 13:42	n/a	(used for QC only; not part of job FC1200)
FC1200-24	1A42160.D	12/14/22 14:06	n/a	FDSA-MW0017D1-045.0-20221209
ZZZZZZ	1A42161.D	12/14/22 14:29	n/a	(unrelated sample)
FC1102-12MS	1A42163.D	12/14/22 15:17	n/a	Matrix Spike
FC1102-12MSD	1A42164.D	12/14/22 15:41	n/a	Matrix Spike Duplicate
V1A1698-ECC1696	1A42165.D	12/14/22 16:04	n/a	Ending cal 5

Run Sequence Report

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V1P3621 **Method:** SW846 8260D **Instrument ID:** GCMS1P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V1P3621-BFB	1P94950.D	11/04/22 10:24	n/a	BFB Tune
V1P3621-IC3621	1P94950.D	11/04/22 10:24	n/a	Initial cal 1
V1P3621-IC3621	1P94952.D	11/04/22 10:56	n/a	Initial cal 2
V1P3621-IC3621	1P94954.D	11/04/22 11:29	n/a	Initial cal 3
V1P3621-IC3621	1P94956.D	11/04/22 12:01	n/a	Initial cal 4
V1P3621-ICC3621	1P94958.D	11/04/22 12:33	n/a	Initial cal 5
V1P3621-IC3621	1P94960.D	11/04/22 13:05	n/a	Initial cal 6
V1P3621-IC3621	1P94962.D	11/04/22 13:37	n/a	Initial cal 7
V1P3621-ICV3621	1P94968.D	11/04/22 15:34	n/a	Initial cal verification 5
V1P3621-CC3621	1P94968A.D	11/04/22 15:34	n/a	Continuing cal 5
V1P3621-ICV3621	1P94970.D	11/04/22 16:05	n/a	Initial cal verification 4
V1P3621-BS	1P94970A.D	11/04/22 16:05	n/a	Blank Spike
V1P3621-MB	1P94974.D	11/04/22 17:11	n/a	Method Blank
ZZZZZZ	1P94976.D	11/04/22 17:43	n/a	(unrelated sample)
ZZZZZZ	1P94978.D	11/04/22 18:14	n/a	(unrelated sample)
ZZZZZZ	1P94980.D	11/04/22 18:45	n/a	(unrelated sample)
ZZZZZZ	1P94982.D	11/04/22 19:16	n/a	(unrelated sample)
ZZZZZZ	1P94984.D	11/04/22 19:47	n/a	(unrelated sample)
ZZZZZZ	1P94986.D	11/04/22 20:19	n/a	(unrelated sample)
ZZZZZZ	1P94988.D	11/04/22 20:50	n/a	(unrelated sample)
ZZZZZZ	1P94990.D	11/04/22 21:21	n/a	(unrelated sample)
V1P3621-ECC3621	1P94994.D	11/04/22 22:23	n/a	Ending cal 5

Run Sequence Report

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V1P3644 **Method:** SW846 8260D **Instrument ID:** GCMS1P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V1P3644-BFB	1P96224.D	12/12/22 10:02	n/a	BFB Tune
V1P3644-CC3621	1P96224.D	12/12/22 10:02	n/a	Continuing cal 5
V1P3644-BS	1P96226.D	12/12/22 10:34	n/a	Blank Spike
V1P3644-MB	1P96230.D	12/12/22 11:38	n/a	Method Blank
ZZZZZZ	1P96232.D	12/12/22 12:10	n/a	(unrelated sample)
ZZZZZZ	1P96234.D	12/12/22 12:41	n/a	(unrelated sample)
ZZZZZZ	1P96236.D	12/12/22 13:14	n/a	(unrelated sample)
FC1074-1	1P96238.D	12/12/22 13:45	n/a	(used for QC only; not part of job FC1200)
ZZZZZZ	1P96240.D	12/12/22 14:17	n/a	(unrelated sample)
FC1200-1	1P96242.D	12/12/22 14:49	n/a	FDSA-MW0033-025.0-20221207
FC1200-2	1P96244.D	12/12/22 15:21	n/a	FDSA-MW0045-025.0-20221207
FC1200-3	1P96246.D	12/12/22 15:53	n/a	FDSA-MW0052-015.0-20221207
FC1200-4	1P96248.D	12/12/22 16:25	n/a	FDSA-MW0051-025.0-20221207
FC1200-5	1P96250.D	12/12/22 16:57	n/a	FDSA-MW0059-015.0-20221207
FC1200-6	1P96252.D	12/12/22 17:28	n/a	FDSA-MW0005-010.0-20221207
FC1200-7	1P96254.D	12/12/22 18:00	n/a	FDSA-MW0025S-010.0-20221207
FC1200-8	1P96256.D	12/12/22 18:32	n/a	FDSA-MW014S2-007.0-20221207
FC1200-9	1P96258.D	12/12/22 19:04	n/a	FDSA-MW0058-015.0-20221207
FC1200-10	1P96260.D	12/12/22 19:35	n/a	FDSA-MW0057-025.0-20221207
FC1074-1MS	1P96264.D	12/12/22 20:39	n/a	Matrix Spike
FC1074-1MSD	1P96266.D	12/12/22 21:10	n/a	Matrix Spike Duplicate
V1P3644-ECC3621	1P96268.D	12/12/22 21:42	n/a	Ending cal 5

Run Sequence Report

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V2A1677 **Method:** SW846 8260D **Instrument ID:** GCMS2A

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2A1677-BFB	2A42171.D	12/16/22 08:55	n/a	BFB Tune
V2A1677-IC1677	2A42173.D	12/16/22 10:08	n/a	Initial cal 1
V2A1677-IC1677	2A42175.D	12/16/22 10:43	n/a	Initial cal 2
V2A1677-IC1677	2A42177.D	12/16/22 11:19	n/a	Initial cal 3
V2A1677-IC1677	2A42179.D	12/16/22 11:54	n/a	Initial cal 4
V2A1677-ICC1677	2A42181.D	12/16/22 12:31	n/a	Initial cal 5
V2A1677-IC1677	2A42183.D	12/16/22 13:06	n/a	Initial cal 6
V2A1677-IC1677	2A42185.D	12/16/22 13:41	n/a	Initial cal 7
V2A1677-ICV1677	2A42189.D	12/16/22 15:19	n/a	Initial cal verification 5
V2A1677-BS	2A42191.D	12/16/22 15:54	n/a	Blank Spike
V2A1677-MB	2A42193.D	12/16/22 16:42	n/a	Method Blank
ZZZZZZ	2A42194.D	12/16/22 17:06	n/a	(unrelated sample)
ZZZZZZ	2A42195.D	12/16/22 17:30	n/a	(unrelated sample)
ZZZZZZ	2A42196.D	12/16/22 17:54	n/a	(unrelated sample)
ZZZZZZ	2A42197.D	12/16/22 18:18	n/a	(unrelated sample)
ZZZZZZ	2A42198.D	12/16/22 18:43	n/a	(unrelated sample)
ZZZZZZ	2A42199.D	12/16/22 19:07	n/a	(unrelated sample)
ZZZZZZ	2A42200.D	12/16/22 19:31	n/a	(unrelated sample)
V2A1677-ECC1677	2A42201.D	12/16/22 19:55	n/a	Ending cal 5

Run Sequence Report

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V2A1682 **Method:** SW846 8260D **Instrument ID:** GCMS2A

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2A1682-BFB	2A42430.D	12/27/22 12:11	n/a	BFB Tune
V2A1682-CC1677	2A42432.D	12/27/22 12:45	n/a	Continuing cal 5
V2A1682-BS	2A42434.D	12/27/22 13:19	n/a	Blank Spike
V2A1682-MB	2A42437.D	12/27/22 14:11	n/a	Method Blank
FC1200-21	2A42438.D	12/27/22 14:35	n/a	FDSA-MW0035-045.0-20221208
FC1200-25	2A42439.D	12/27/22 14:59	n/a	FDSA-MW0036-045.0-20221209
ZZZZZZ	2A42440.D	12/27/22 15:23	n/a	(unrelated sample)
ZZZZZZ	2A42441.D	12/27/22 15:47	n/a	(unrelated sample)
ZZZZZZ	2A42442.D	12/27/22 16:11	n/a	(unrelated sample)
ZZZZZZ	2A42443.D	12/27/22 16:35	n/a	(unrelated sample)
ZZZZZZ	2A42444.D	12/27/22 16:59	n/a	(unrelated sample)
ZZZZZZ	2A42445.D	12/27/22 17:23	n/a	(unrelated sample)
FC1563-3	2A42446.D	12/27/22 17:47	n/a	(used for QC only; not part of job FC1200)
ZZZZZZ	2A42447.D	12/27/22 18:11	n/a	(unrelated sample)
FC1563-3MS	2A42448.D	12/27/22 18:35	n/a	Matrix Spike
FC1563-3MSD	2A42449.D	12/27/22 18:59	n/a	Matrix Spike Duplicate
V2A1682-ECC1677	2A42450.D	12/27/22 19:23	n/a	Ending cal 5

Run Sequence Report

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V2P3622 **Method:** SW846 8260D **Instrument ID:** GCMS2P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2P3622-BFB	2P94951.D	11/04/22 10:40	n/a	BFB Tune
V2P3622-IC3622	2P94951.D	11/04/22 10:40	n/a	Initial cal 1
V2P3622-IC3622	2P94953.D	11/04/22 11:12	n/a	Initial cal 2
V2P3622-IC3622	2P94955.D	11/04/22 11:45	n/a	Initial cal 3
V2P3622-IC3622	2P94957.D	11/04/22 12:17	n/a	Initial cal 4
V2P3622-ICC3622	2P94959.D	11/04/22 12:49	n/a	Initial cal 5
V2P3622-IC3622	2P94961.D	11/04/22 13:21	n/a	Initial cal 6
V2P3622-IC3622	2P94963.D	11/04/22 13:53	n/a	Initial cal 7
V2P3622-ICV3622	2P94969.D	11/04/22 15:50	n/a	Initial cal verification 5
V2P3622-CC3622	2P94969A.D	11/04/22 15:50	n/a	Continuing cal 5
V2P3622-ICV3622	2P94971.D	11/04/22 16:21	n/a	Initial cal verification 4
V2P3622-BS	2P94971A.D	11/04/22 16:21	n/a	Blank Spike
V2P3622-MB	2P94975.D	11/04/22 17:27	n/a	Method Blank
ZZZZZZ	2P94977.D	11/04/22 17:58	n/a	(unrelated sample)
ZZZZZZ	2P94979.D	11/04/22 18:30	n/a	(unrelated sample)
ZZZZZZ	2P94981.D	11/04/22 19:01	n/a	(unrelated sample)
ZZZZZZ	2P94983.D	11/04/22 19:32	n/a	(unrelated sample)
ZZZZZZ	2P94985.D	11/04/22 20:03	n/a	(unrelated sample)
ZZZZZZ	2P94987.D	11/04/22 20:34	n/a	(unrelated sample)
ZZZZZZ	2P94989.D	11/04/22 21:05	n/a	(unrelated sample)
ZZZZZZ	2P94991.D	11/04/22 21:36	n/a	(unrelated sample)
ZZZZZZ	2P94993.D	11/04/22 22:07	n/a	(unrelated sample)
V2P3622-ECC3622	2P94995.D	11/04/22 22:38	n/a	Ending cal 5

Run Sequence Report

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V2P3657 **Method:** SW846 8260D **Instrument ID:** GCMS2P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2P3657-BFB	2P96225.D	12/12/22 10:18	n/a	BFB Tune
V2P3657-CC3622	2P96225.D	12/12/22 10:18	n/a	Continuing cal 5
V2P3657-BS	2P96227.D	12/12/22 10:50	n/a	Blank Spike
V2P3657-MB	2P96231.D	12/12/22 11:54	n/a	Method Blank
FC1200-12	2P96233.D	12/12/22 12:25	n/a	FDSA-TB-000.0-20221207
ZZZZZZ	2P96235.D	12/12/22 12:57	n/a	(unrelated sample)
ZZZZZZ	2P96237.D	12/12/22 13:29	n/a	(unrelated sample)
ZZZZZZ	2P96239.D	12/12/22 14:01	n/a	(unrelated sample)
FC1200-13	2P96241.D	12/12/22 14:33	n/a	FDSA-MW0047-015.0-20221208
FC1200-14	2P96243.D	12/12/22 15:05	n/a	FDSA-MW0050-025.0-20221208
FC1200-15	2P96245.D	12/12/22 15:37	n/a	FDSA-MW0031-012.5-20221208
FC1200-16	2P96247.D	12/12/22 16:09	n/a	FDSA-MW0048-015.0-20221208
FC1200-17	2P96249.D	12/12/22 16:41	n/a	FDSA-MW0016S2-007.0-20221208
FC1200-18	2P96251.D	12/12/22 17:12	n/a	FDSA-MW0015S2-006.0-20221208
FC1200-19	2P96253.D	12/12/22 17:44	n/a	FDSA-MW0022S2-015.0-20221208
FC1200-20	2P96255.D	12/12/22 18:16	n/a	FDSA-MW0029-015.0-20221208
FC1200-21	2P96257.D	12/12/22 18:47	n/a	FDSA-MW0035-045.0-20221208
FC1200-22	2P96259.D	12/12/22 19:19	n/a	FDSA-MW0039-045.0-20221208
FC1200-21MS	2P96265.D	12/12/22 20:55	n/a	Matrix Spike
FC1200-21MSD	2P96267.D	12/12/22 21:26	n/a	Matrix Spike Duplicate
V2P3657-ECC3622	2P96269.D	12/12/22 21:58	n/a	Ending cal 5

Run Sequence Report

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V2P3658 **Method:** SW846 8260D **Instrument ID:** GCMS2P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2P3658-BFB	2P96271.D	12/13/22 09:45	n/a	BFB Tune
V2P3658-CC3622	2P96273.D	12/13/22 10:17	n/a	Continuing cal 5
V2P3658-BS	2P96275.D	12/13/22 10:49	n/a	Blank Spike
V2P3658-MB	2P96279.D	12/13/22 11:54	n/a	Method Blank
FC1200-6	2P96283.D	12/13/22 12:57	n/a	FDSA-MW0005-010.0-20221207
FC1200-11	2P96293.D	12/13/22 15:37	n/a	FDSA-MW0055-025.0-20221207
FC1200-5	2P96295.D	12/13/22 16:08	n/a	FDSA-MW0059-015.0-20221207
ZZZZZZ	2P96297.D	12/13/22 16:40	n/a	(unrelated sample)
FC1200-5MS	2P96313.D	12/13/22 20:54	n/a	Matrix Spike
FC1200-5MSD	2P96315.D	12/13/22 21:26	n/a	Matrix Spike Duplicate
V2P3658-ECC3622	2P96317.D	12/13/22 21:58	n/a	Ending cal 5

Run Sequence Report

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: VI2765 **Method:** SW846 8260D **Instrument ID:** GCMSI

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VI2765-BFB	I753066.D	11/30/22 10:12	n/a	BFB Tune
VI2765-IC2765	I753067.D	11/30/22 10:36	n/a	Initial cal 1
VI2765-IC2765	I753068.D	11/30/22 11:34	n/a	Initial cal 2
VI2765-IC2765	I753069.D	11/30/22 11:57	n/a	Initial cal 3
VI2765-IC2765	I753070.D	11/30/22 12:21	n/a	Initial cal 4
VI2765-ICC2765	I753071.D	11/30/22 12:44	n/a	Initial cal 5
VI2765-IC2765	I753072.D	11/30/22 13:08	n/a	Initial cal 6
VI2765-IC2765	I753073.D	11/30/22 13:31	n/a	Initial cal 7
VI2765-CC2765	I753075A.D	11/30/22 14:19	n/a	Continuing cal 5
VI2765-ICV2765	I753075.D	11/30/22 14:19	n/a	Initial cal verification 5
VI2765-BS	I753076A.D	11/30/22 14:42	n/a	Blank Spike
VI2765-ICV2765	I753076.D	11/30/22 14:42	n/a	Initial cal verification 4
VI2765-MB	I753079.D	11/30/22 15:53	n/a	Method Blank
ZZZZZZ	I753080.D	11/30/22 16:16	n/a	(unrelated sample)
ZZZZZZ	I753081.D	11/30/22 16:40	n/a	(unrelated sample)
ZZZZZZ	I753082.D	11/30/22 17:03	n/a	(unrelated sample)
FC520-19	I753083.D	11/30/22 17:27	n/a	(used for QC only; not part of job FC1200)
ZZZZZZ	I753084.D	11/30/22 17:50	n/a	(unrelated sample)
ZZZZZZ	I753085.D	11/30/22 18:14	n/a	(unrelated sample)
ZZZZZZ	I753086.D	11/30/22 18:37	n/a	(unrelated sample)
ZZZZZZ	I753087.D	11/30/22 19:01	n/a	(unrelated sample)
ZZZZZZ	I753088.D	11/30/22 19:24	n/a	(unrelated sample)
ZZZZZZ	I753089.D	11/30/22 19:48	n/a	(unrelated sample)
ZZZZZZ	I753090.D	11/30/22 20:11	n/a	(unrelated sample)
ZZZZZZ	I753091.D	11/30/22 20:35	n/a	(unrelated sample)
FC520-19MS	I753092.D	11/30/22 20:58	n/a	Matrix Spike
FC520-19MSD	I753093.D	11/30/22 21:22	n/a	Matrix Spike Duplicate
VI2765-ECC2765	I753094.D	11/30/22 21:46	n/a	Ending cal 5

Run Sequence Report

Job Number: FC1200
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: VI2788 **Method:** SW846 8260D **Instrument ID:** GCMSI

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VI2788-BFB	I753616.D	12/15/22 09:44	n/a	BFB Tune
VI2788-CC2765	I753616.D	12/15/22 09:44	n/a	Continuing cal 5
VI2788-BS	I753617.D	12/15/22 10:07	n/a	Blank Spike
VI2788-MB	I753619.D	12/15/22 10:54	n/a	Method Blank
ZZZZZZ	I753620.D	12/15/22 11:18	n/a	(unrelated sample)
ZZZZZZ	I753621.D	12/15/22 11:42	n/a	(unrelated sample)
FC1200-3	I753622.D	12/15/22 12:05	n/a	FDSA-MW0052-015.0-20221207
FC1200-11	I753624.D	12/15/22 12:53	n/a	FDSA-MW0055-025.0-20221207
FC1200-15	I753625.D	12/15/22 13:16	n/a	FDSA-MW0031-012.5-20221208
FC1200-17	I753626.D	12/15/22 13:40	n/a	FDSA-MW0016S2-007.0-20221208
ZZZZZZ	I753627.D	12/15/22 14:03	n/a	(unrelated sample)
ZZZZZZ	I753628.D	12/15/22 14:27	n/a	(unrelated sample)
FC1239-2	I753629.D	12/15/22 14:51	n/a	(used for QC only; not part of job FC1200)
ZZZZZZ	I753630.D	12/15/22 15:14	n/a	(unrelated sample)
ZZZZZZ	I753631.D	12/15/22 15:38	n/a	(unrelated sample)
ZZZZZZ	I753632.D	12/15/22 16:02	n/a	(unrelated sample)
ZZZZZZ	I753633.D	12/15/22 16:25	n/a	(unrelated sample)
ZZZZZZ	I753634.D	12/15/22 16:49	n/a	(unrelated sample)
ZZZZZZ	I753635.D	12/15/22 17:12	n/a	(unrelated sample)
FC1239-2MS	I753636.D	12/15/22 17:36	n/a	Matrix Spike
FC1239-2MSD	I753637.D	12/15/22 17:59	n/a	Matrix Spike Duplicate
VI2788-ECC2765	I753638.D	12/15/22 18:23	n/a	Ending cal 5

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96242.D
Acq On : 12 Dec 2022 2:49 pm
Operator : courtnef
Sample : FC1200-1 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:15:12 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

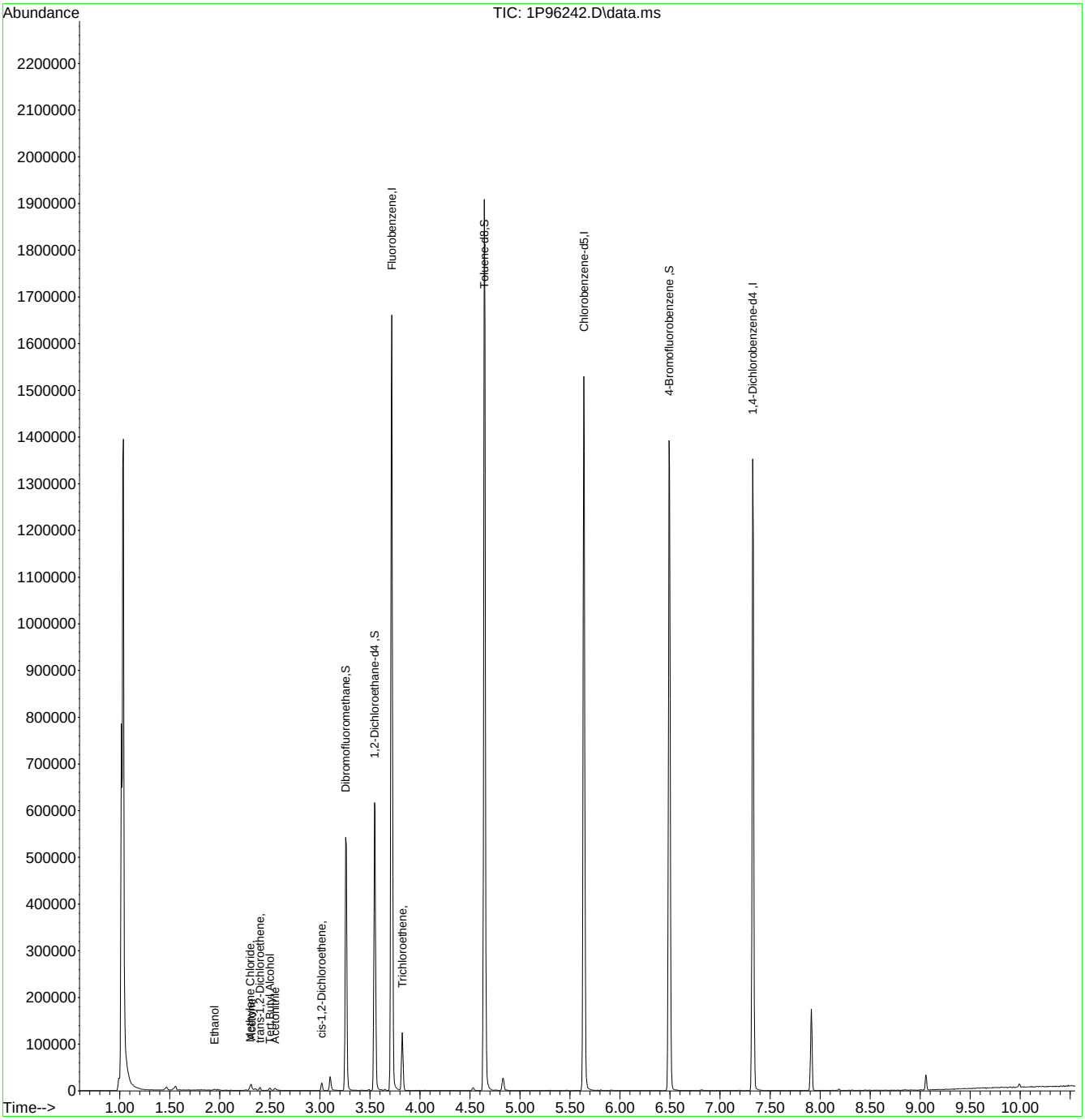
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.718	96	884684	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.638	117	561426	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.327	152	231342	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.258	113	195396	52.97	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.94%			
49) 1,2-Dichloroethane-d4	3.546	65	280006	52.67	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.34%			
63) Toluene-d8	4.644	98	823401	49.98	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.96%			
86) 4-Bromofluorobenzene	6.490	174	194277	54.98	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.96%			
Target Compounds						Qvalue
10) Ethanol	1.945	45	1816	13.75	ug/L	99
18) Methylene Chloride	2.301	49	2066	0.40	ug/L	93
19) Acetone	2.317	43	11615	4.82	ug/L	99
21) trans-1,2-Dichloroethene	2.400	61	2440	0.50	ug/L	88
24) Tert Butyl Alcohol	2.500	59	4179	3.45	ug/L	98
25) Acetonitrile	2.552	41	4477	5.27	ug/L	84
32) cis-1,2-Dichloroethene	3.017	96	4377	1.27	ug/L	91
53) Trichloroethene	3.823	95	25662	7.21	ug/L	95

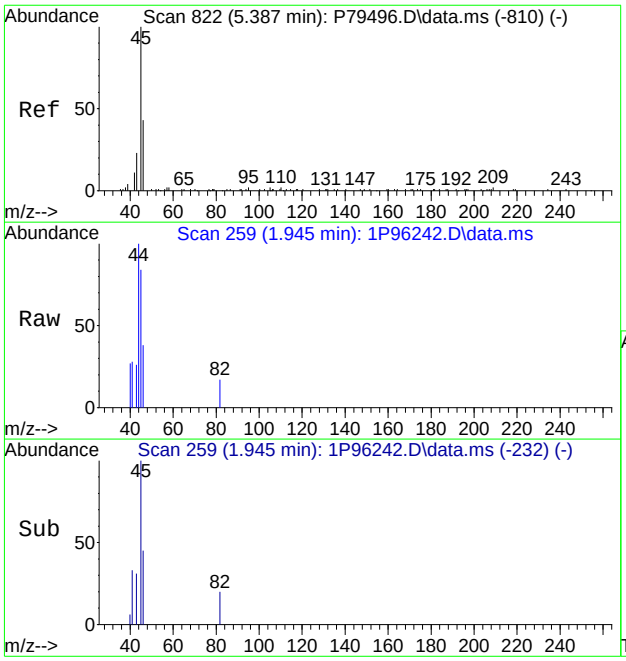
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96242.D
Acq On : 12 Dec 2022 2:49 pm
Operator : courtnef
Sample : FC1200-1 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:15:12 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

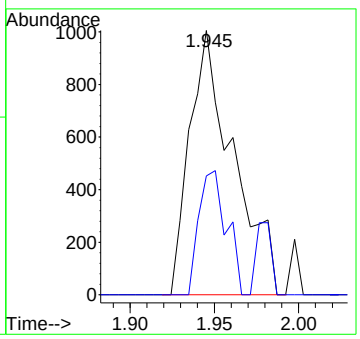


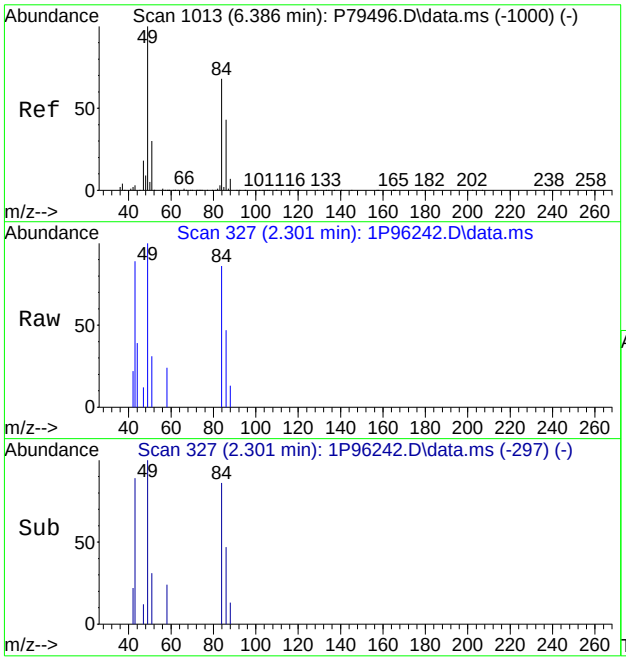


#10
Ethanol
Concen: 13.75 ug/L
RT: 1.945 min Scan# 259
Delta R.T. -0.011 min
Lab File: 1P96242.D
Acq: 12 Dec 2022 2:49 pm

Tgt Ion: 45 Resp: 1816

Ion	Ratio	Lower	Upper
45	100		
46	44.9	24.3	64.3

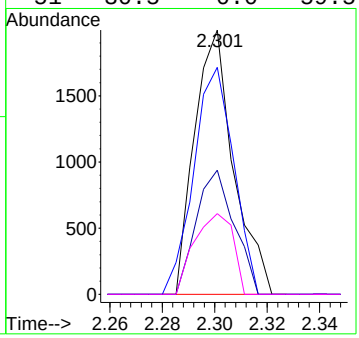


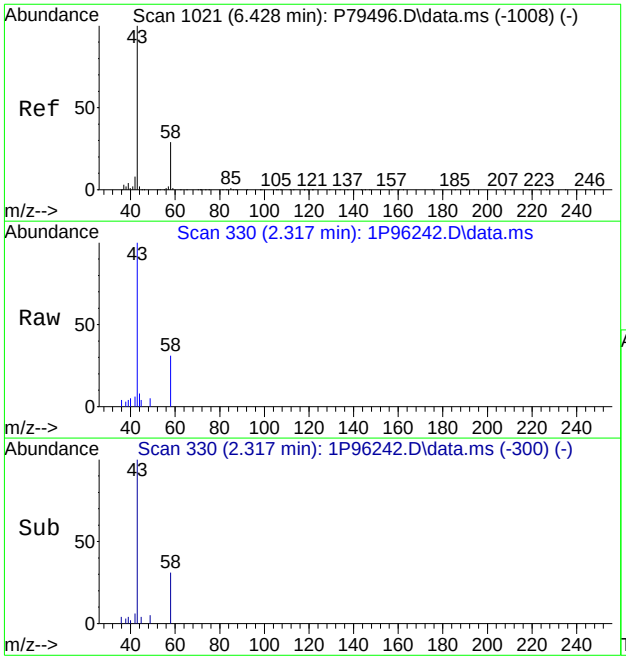


#18
Methylene Chloride
Concen: 0.40 ug/L
RT: 2.301 min Scan# 327
Delta R.T. 0.005 min
Lab File: 1P96242.D
Acq: 12 Dec 2022 2:49 pm

Tgt Ion: 49 Resp: 2066

Ion	Ratio	Lower	Upper
49	100		
84	85.8	46.9	106.9
86	46.9	19.4	79.4
51	30.5	0.0	59.5

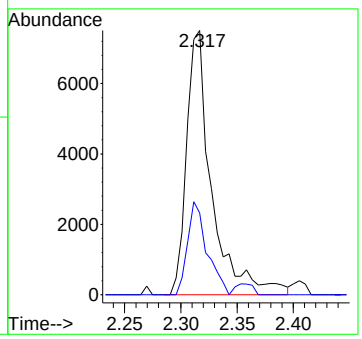


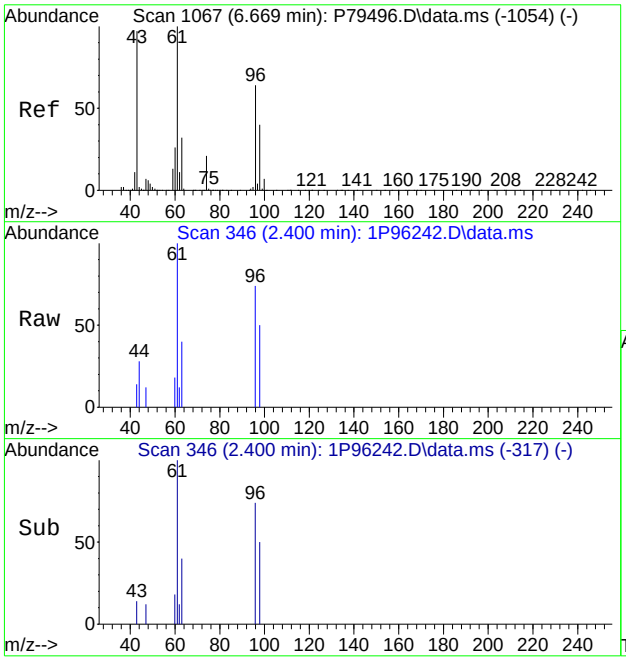


#19
Acetone
Concen: 4.82 ug/L
RT: 2.317 min Scan# 330
Delta R.T. 0.005 min
Lab File: 1P96242.D
Acq: 12 Dec 2022 2:49 pm

Tgt Ion: 43 Resp: 11615

Ion	Ratio	Lower	Upper
43	100		
58	31.0	0.6	60.6

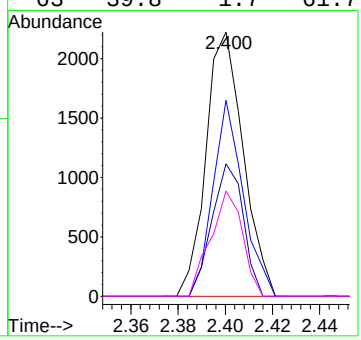


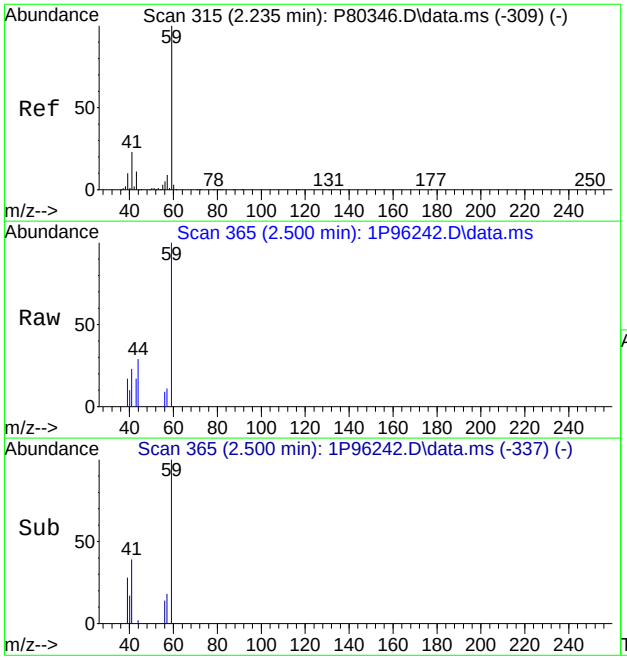


#21
trans-1,2-Dichloroethene
Concen: 0.50 ug/L
RT: 2.400 min Scan# 346
Delta R.T. 0.004 min
Lab File: 1P96242.D
Acq: 12 Dec 2022 2:49 pm

Tgt Ion: 61 Resp: 2440

Ion	Ratio	Lower	Upper
61	100		
96	74.2	36.3	96.3
98	50.2	11.6	71.6
63	39.8	1.7	61.7

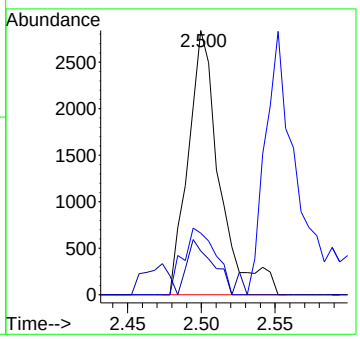


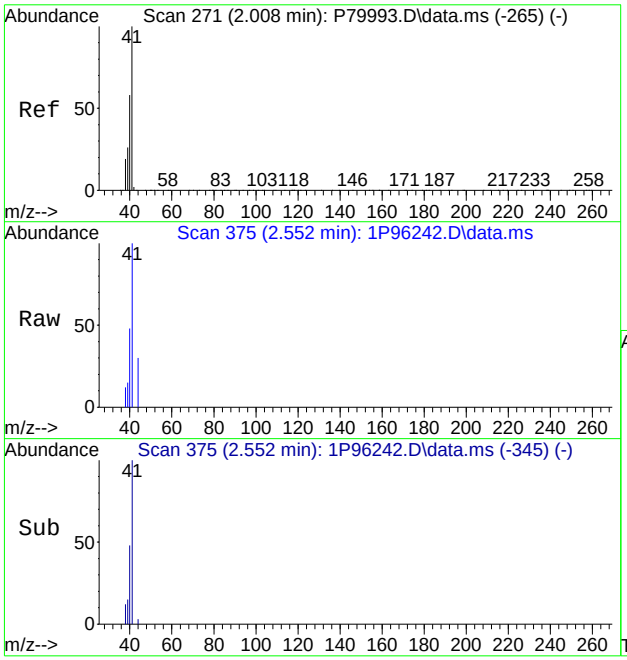


#24
Tert Butyl Alcohol
Concen: 3.45 ug/L
RT: 2.500 min Scan# 365
Delta R.T. -0.005 min
Lab File: 1P96242.D
Acq: 12 Dec 2022 2:49 pm

Tgt Ion: 59 Resp: 4179

Ion	Ratio	Lower	Upper
59	100		
41	23.3	2.6	42.6
43	16.5	0.0	35.1

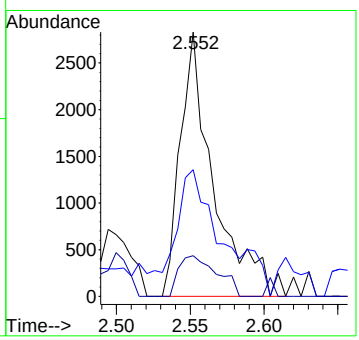


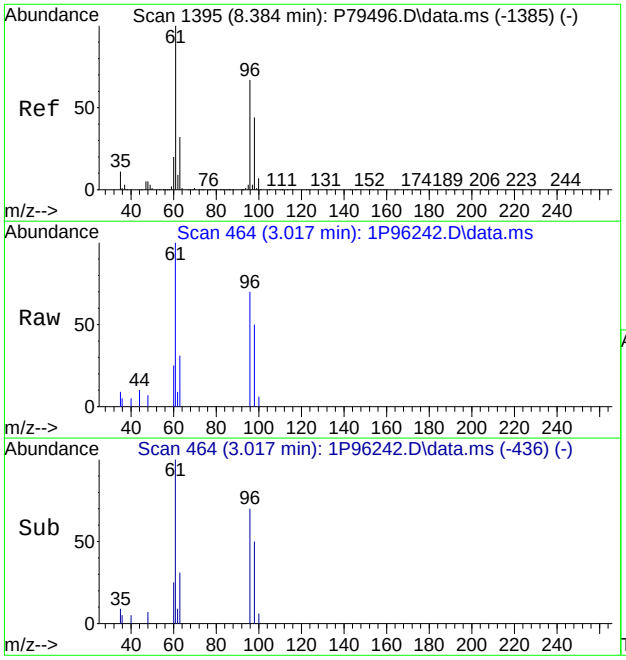


#25
Acetonitrile
Concen: 5.27 ug/L
RT: 2.552 min Scan# 375
Delta R.T. 0.005 min
Lab File: 1P96242.D
Acq: 12 Dec 2022 2:49 pm

Tgt Ion: 41 Resp: 4477

Ion	Ratio	Lower	Upper
41	100		
40	38.9	31.6	71.6
39	15.4	0.4	40.4

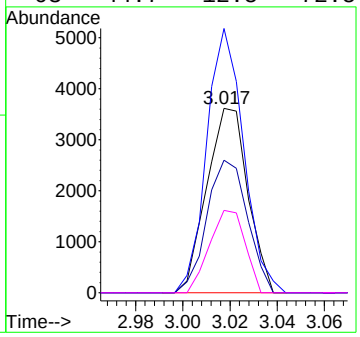


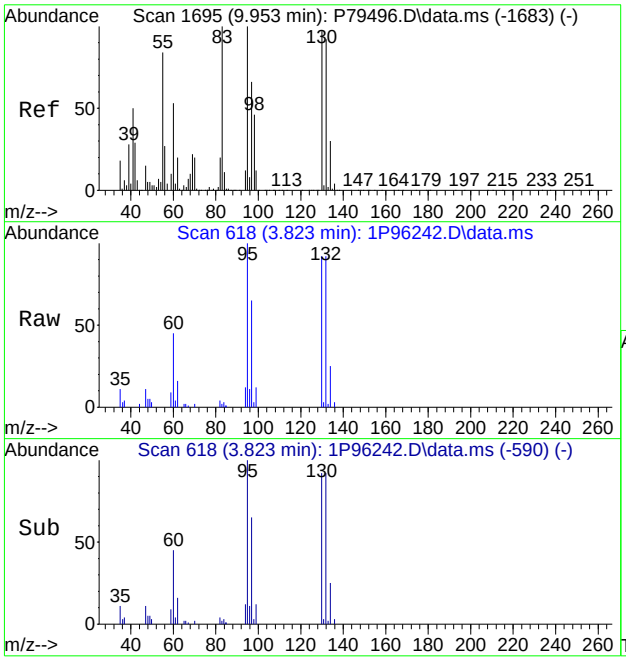


#32
cis-1,2-Dichloroethene
Concen: 1.27 ug/L
RT: 3.017 min Scan# 464
Delta R.T. -0.001 min
Lab File: 1P96242.D
Acq: 12 Dec 2022 2:49 pm

Tgt Ion: 96 Resp: 4377

Ion	Ratio	Lower	Upper
96	100		
61	143.3	101.2	161.2
98	71.8	32.7	92.7
63	44.7	12.5	72.5

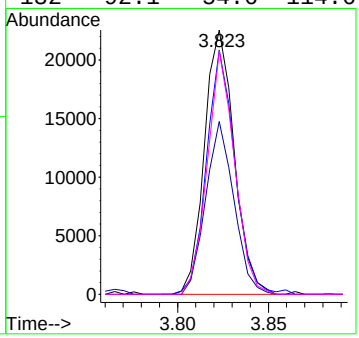




#53
Trichloroethene
Concen: 7.21 ug/L
RT: 3.823 min Scan# 618
Delta R.T. -0.001 min
Lab File: 1P96242.D
Acq: 12 Dec 2022 2:49 pm

Tgt Ion: 95 Resp: 25662

Ion	Ratio	Lower	Upper
95	100		
130	92.4	60.0	120.0
97	65.4	32.2	92.2
132	92.1	54.6	114.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96244.D
Acq On : 12 Dec 2022 3:21 pm
Operator : courtnef
Sample : FC1200-2 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:15:54 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

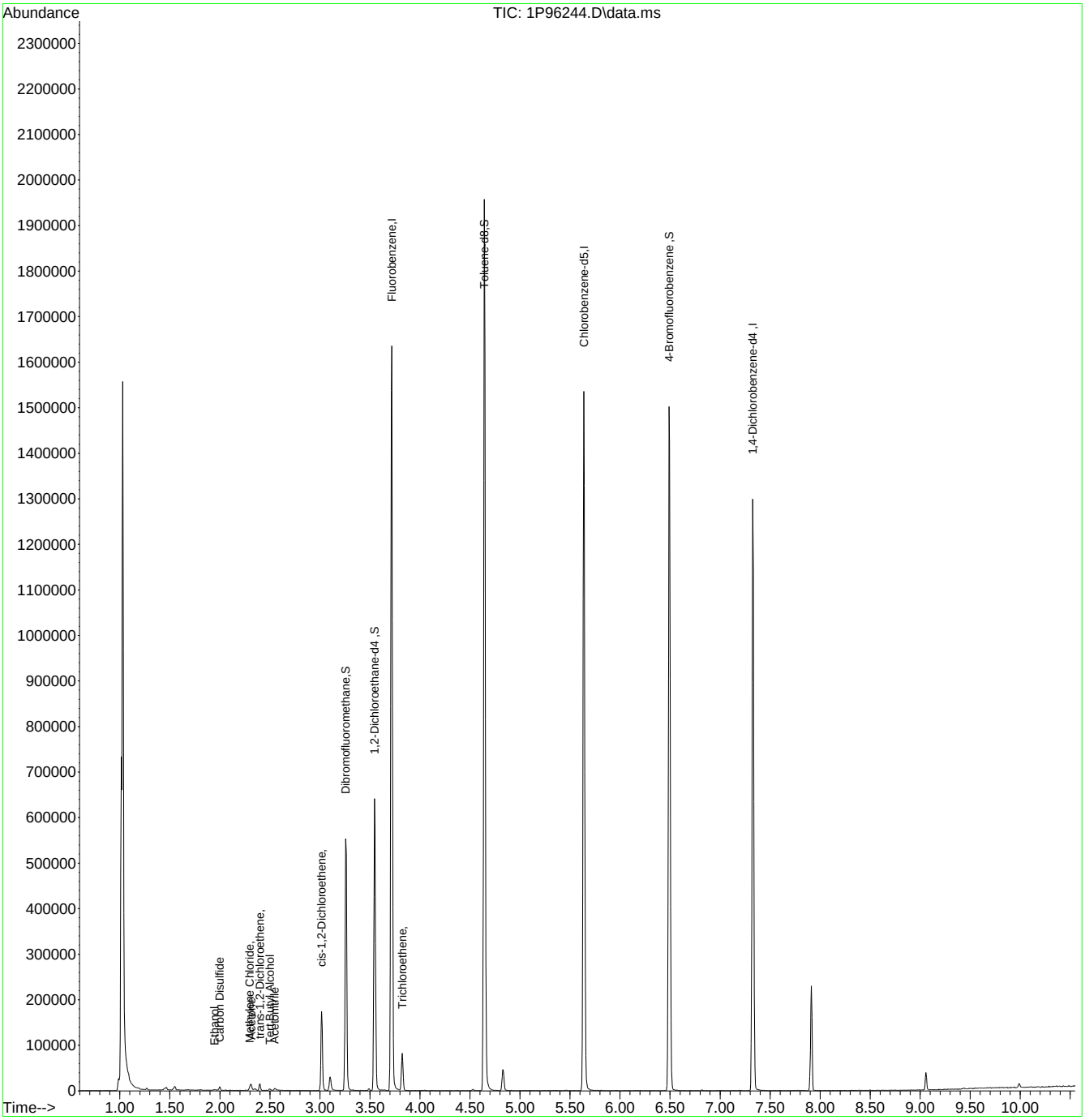
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.718	96	882056	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.638	117	560013	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.327	152	231882	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.258	113	197659	53.74	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.48%			
49) 1,2-Dichloroethane-d4	3.546	65	280647	52.95	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.90%			
63) Toluene-d8	4.644	98	816736	49.70	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.40%			
86) 4-Bromofluorobenzene	6.490	174	194278	54.85	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.70%			
Target Compounds						Qvalue
10) Ethanol	1.945	45	1665	12.64	ug/L	86
14) Carbon Disulfide	1.997	76	5652	0.59	ug/L	100
18) Methylene Chloride	2.296	49	2421	0.47	ug/L	85
19) Acetone	2.311	43	12066	5.03	ug/L	94
21) trans-1,2-Dichloroethene	2.400	61	4882	1.01	ug/L	88
24) Tert Butyl Alcohol	2.499	59	2850	2.36	ug/L	94
25) Acetonitrile	2.547	41	4692	5.54	ug/L	81
32) cis-1,2-Dichloroethene	3.017	96	44028	12.82	ug/L	97
53) Trichloroethene	3.823	95	16939	4.77	ug/L	94

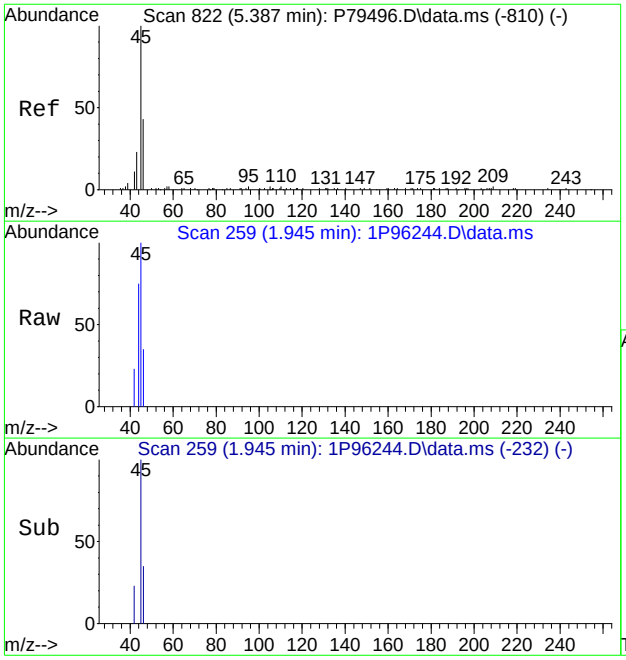
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96244.D
Acq On : 12 Dec 2022 3:21 pm
Operator : courtnef
Sample : FC1200-2 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:15:54 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

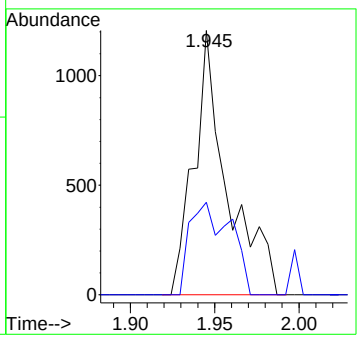


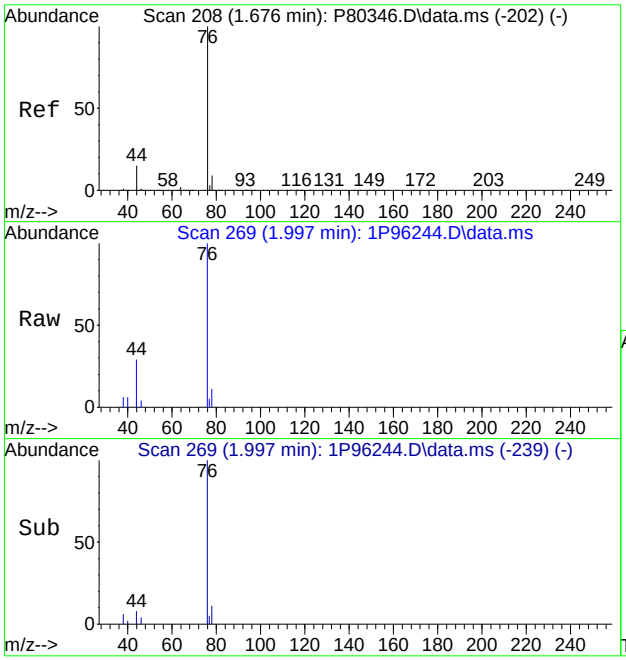


#10
Ethanol
Concen: 12.64 ug/L
RT: 1.945 min Scan# 259
Delta R.T. -0.011 min
Lab File: 1P96244.D
Acq: 12 Dec 2022 3:21 pm

Tgt Ion: 45 Resp: 1665

Ion	Ratio	Lower	Upper
45	100		
46	35.0	24.3	64.3

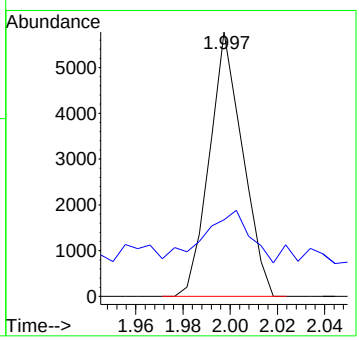


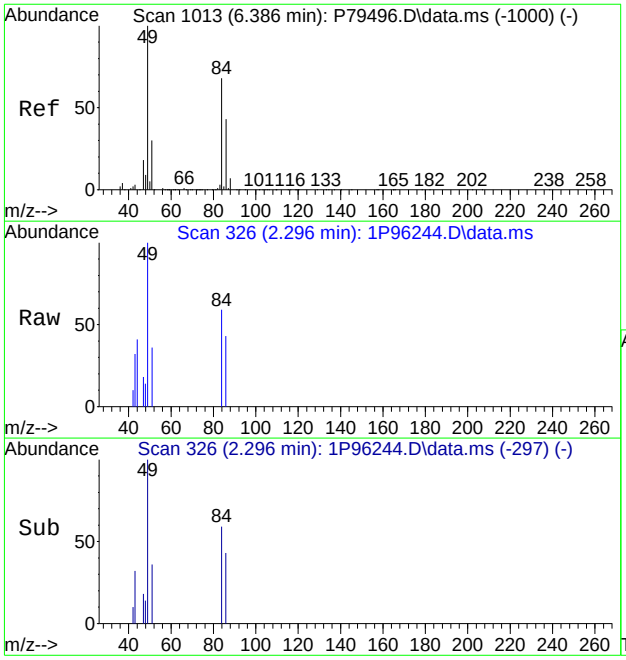


#14
Carbon Disulfide
Concen: 0.59 ug/L
RT: 1.997 min Scan# 269
Delta R.T. 0.004 min
Lab File: 1P96244.D
Acq: 12 Dec 2022 3:21 pm

Tgt Ion: 76 Resp: 5652

Ion	Ratio	Lower	Upper
76	100		
44	14.7	0.0	44.8

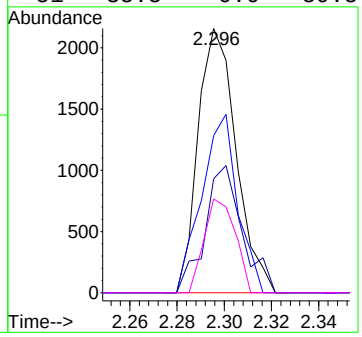


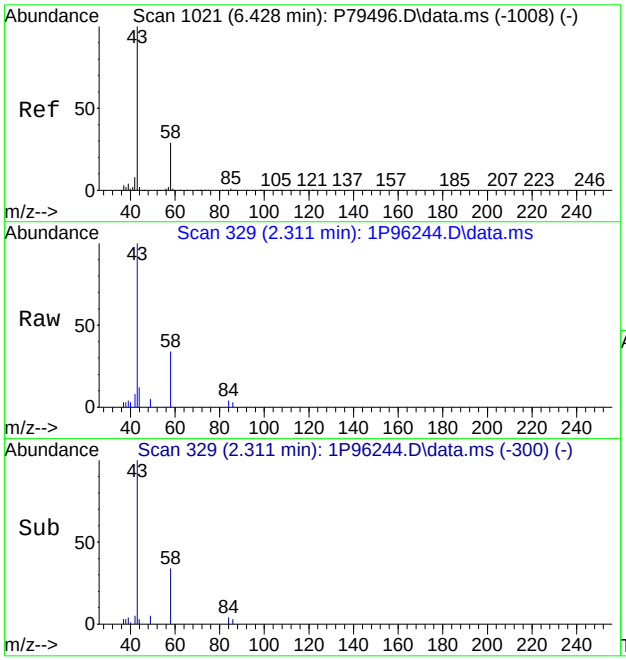


#18
Methylene Chloride
Concen: 0.47 ug/L
RT: 2.296 min Scan# 326
Delta R.T. -0.000 min
Lab File: 1P96244.D
Acq: 12 Dec 2022 3:21 pm

Tgt Ion: 49 Resp: 2421

Ion	Ratio	Lower	Upper
49	100		
84	59.4	46.9	106.9
86	43.1	19.4	79.4
51	35.5	0.0	59.5

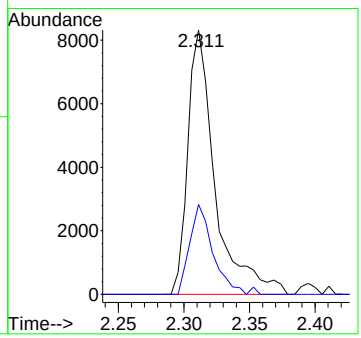


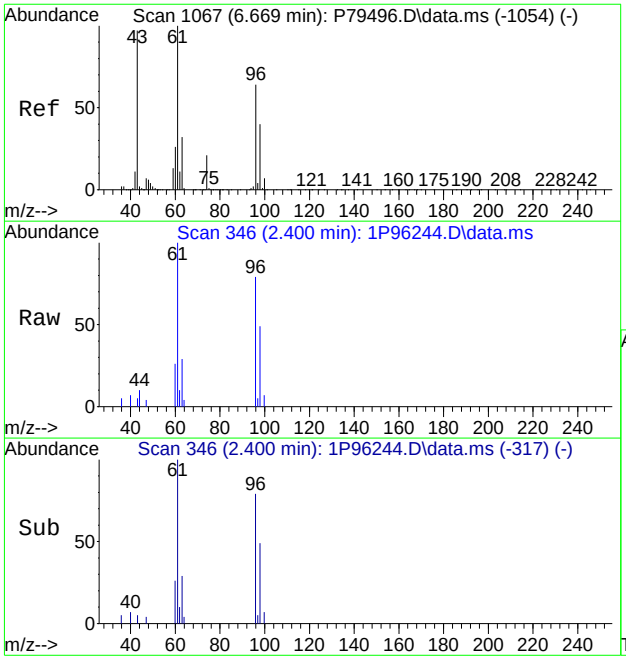


#19
Acetone
Concen: 5.03 ug/L
RT: 2.311 min Scan# 329
Delta R.T. -0.001 min
Lab File: 1P96244.D
Acq: 12 Dec 2022 3:21 pm

Tgt Ion: 43 Resp: 12066

Ion	Ratio	Lower	Upper
43	100		
58	34.0	0.6	60.6

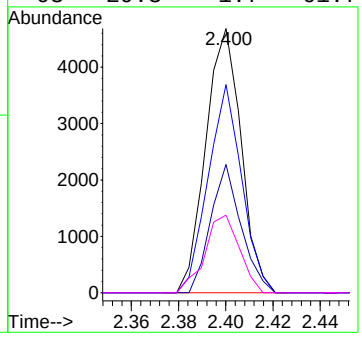


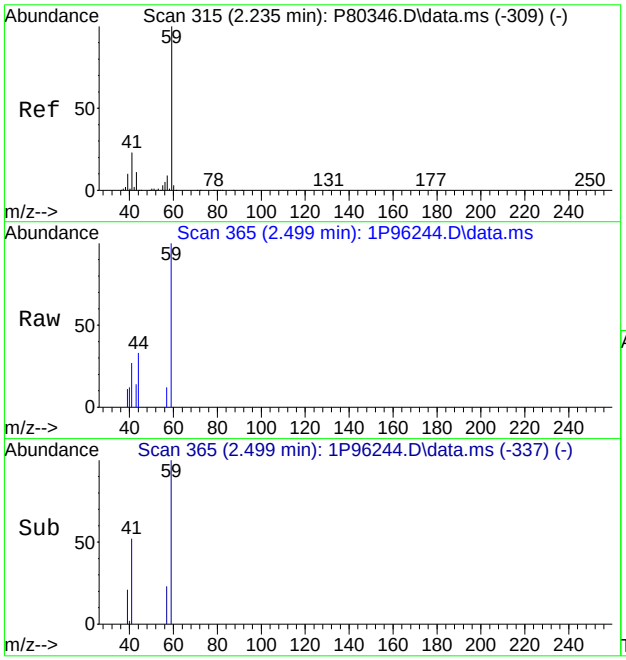


#21
trans-1,2-Dichloroethene
Concen: 1.01 ug/L
RT: 2.400 min Scan# 346
Delta R.T. 0.004 min
Lab File: 1P96244.D
Acq: 12 Dec 2022 3:21 pm

Tgt Ion: 61 Resp: 4882

Ion	Ratio	Lower	Upper
61	100		
96	78.8	36.3	96.3
98	48.6	11.6	71.6
63	29.3	1.7	61.7

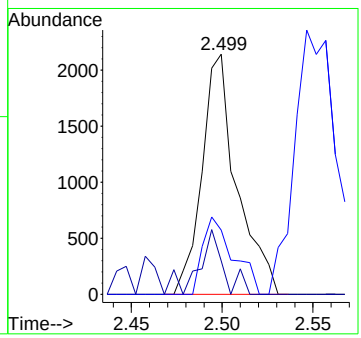


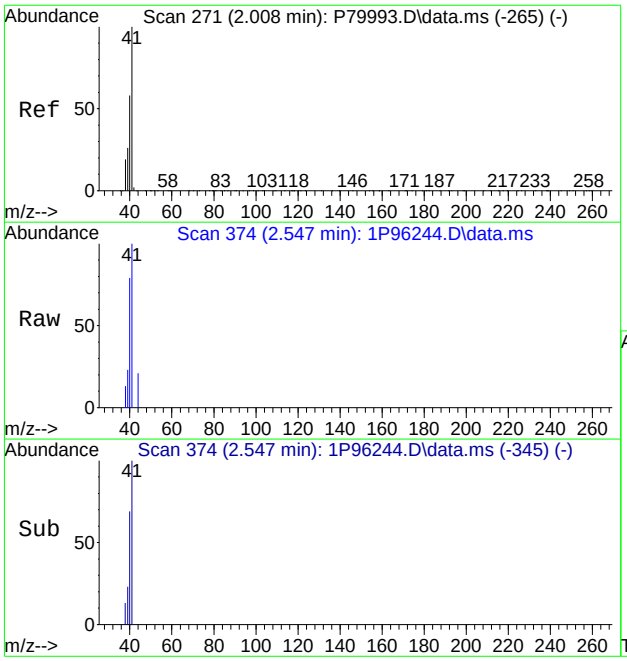


#24
Tert Butyl Alcohol
Concen: 2.36 ug/L
RT: 2.499 min Scan# 365
Delta R.T. -0.006 min
Lab File: 1P96244.D
Acq: 12 Dec 2022 3:21 pm

Tgt Ion: 59 Resp: 2850

Ion	Ratio	Lower	Upper
59	100		
41	26.7	2.6	42.6
43	13.9	0.0	35.1

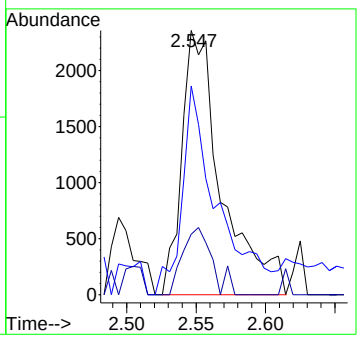


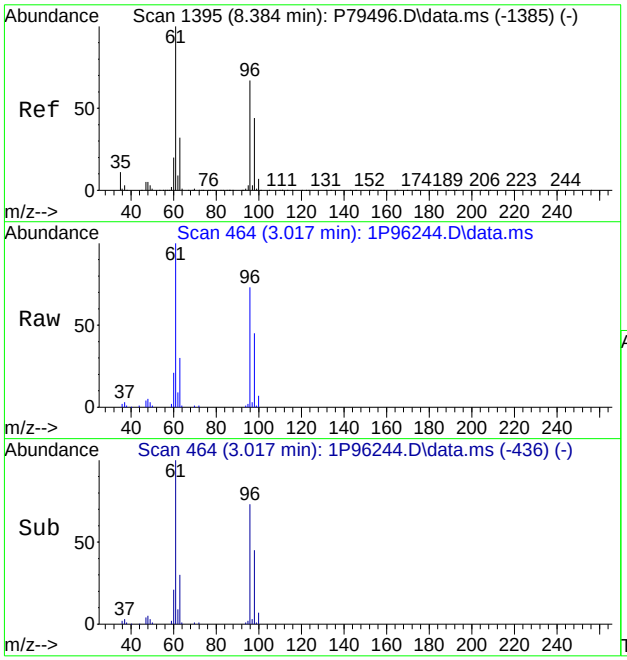


#25
Acetonitrile
Concen: 5.54 ug/L
RT: 2.547 min Scan# 374
Delta R.T. -0.000 min
Lab File: 1P96244.D
Acq: 12 Dec 2022 3:21 pm

Tgt Ion: 41 Resp: 4692

Ion	Ratio	Lower	Upper
41	100		
40	68.2	31.6	71.6
39	22.9	0.4	40.4

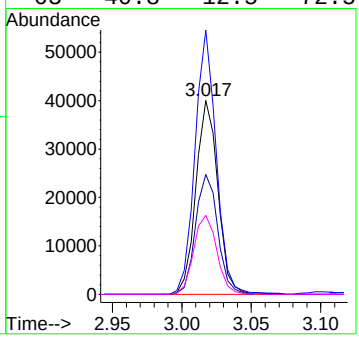


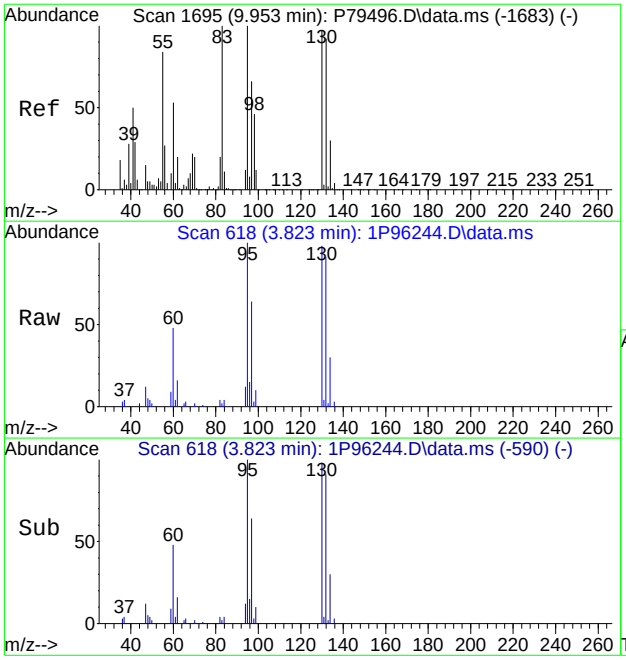


#32
cis-1,2-Dichloroethene
Concen: 12.82 ug/L
RT: 3.017 min Scan# 464
Delta R.T. -0.001 min
Lab File: 1P96244.D
Acq: 12 Dec 2022 3:21 pm

Tgt Ion: 96 Resp: 44028

Ion	Ratio	Lower	Upper
96	100		
61	136.3	101.2	161.2
98	61.9	32.7	92.7
63	40.8	12.5	72.5

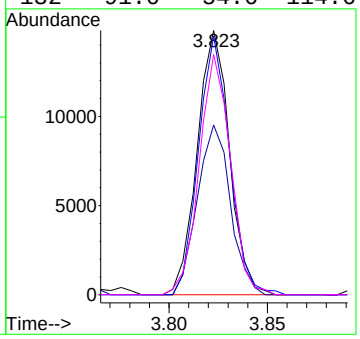




#53
Trichloroethene
Concen: 4.77 ug/L
RT: 3.823 min Scan# 618
Delta R.T. -0.001 min
Lab File: 1P96244.D
Acq: 12 Dec 2022 3:21 pm

Tgt Ion: 95 Resp: 16939

Ion	Ratio	Lower	Upper
95	100		
130	97.8	60.0	120.0
97	64.3	32.2	92.2
132	91.0	54.6	114.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753622.d
Acq On : 15 Dec 2022 12:05 pm
Operator : kylieg
Sample : FC1200-3 Inst : MSVOA16
Misc : MS52987,VI2788,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:10:26 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

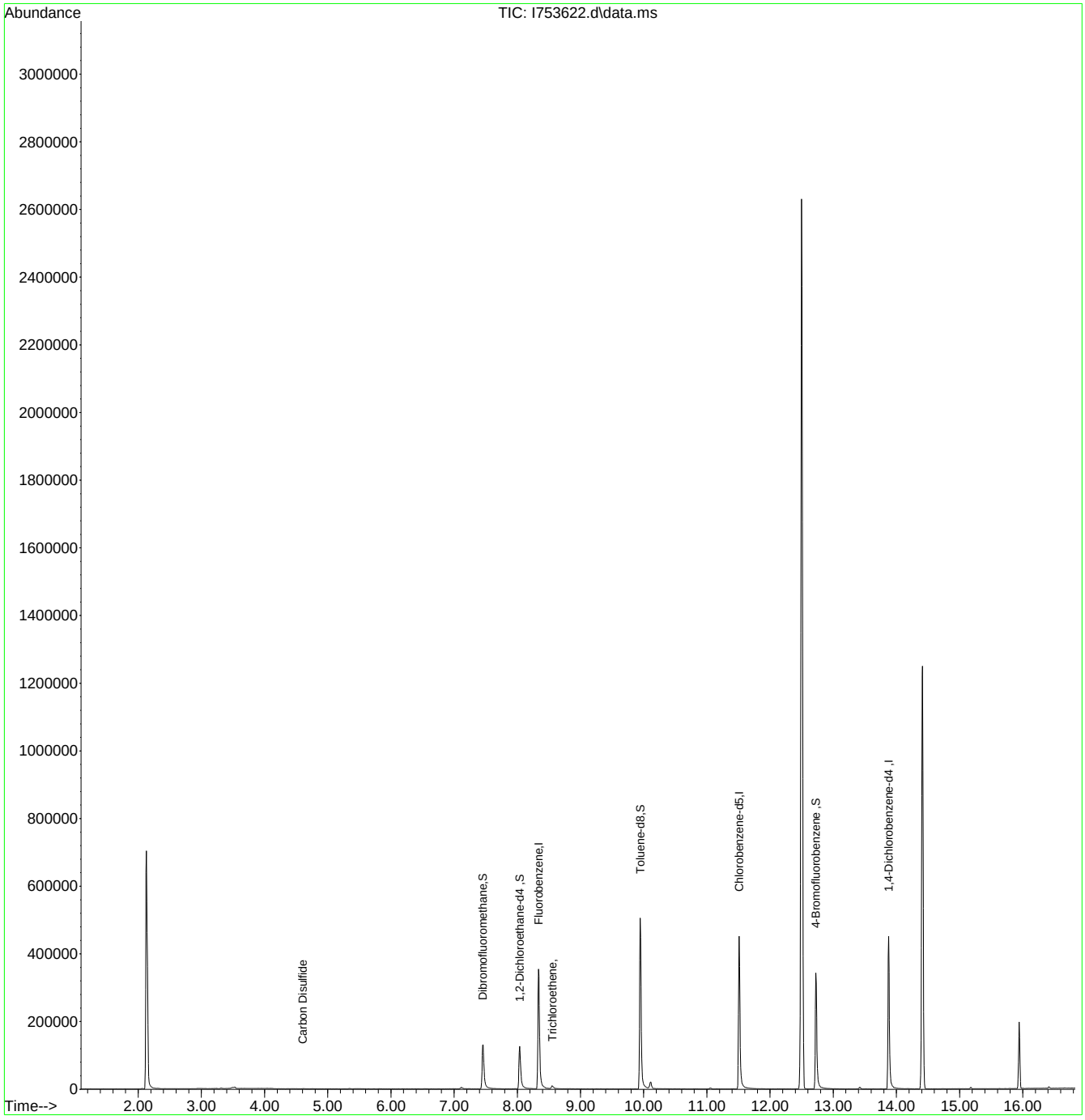
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.336	96	302948	50.00	ug/L	0.00
62) Chlorobenzene-d5	11.512	117	238981	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.877	152	114391	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.452	113	87163	53.91	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.82%			
49) 1,2-Dichloroethane-d4	8.037	65	97006	51.99	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.98%			
63) Toluene-d8	9.945	98	308130	45.72	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 91.44%			
86) 4-Bromofluorobenzene	12.725	174	99003	52.59	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.18%			
Target Compounds						Qvalue
14) Carbon Disulfide	4.605	76	779	0.24	ug/L	89
53) Trichloroethene	8.555	95	4500	3.69	ug/L	87

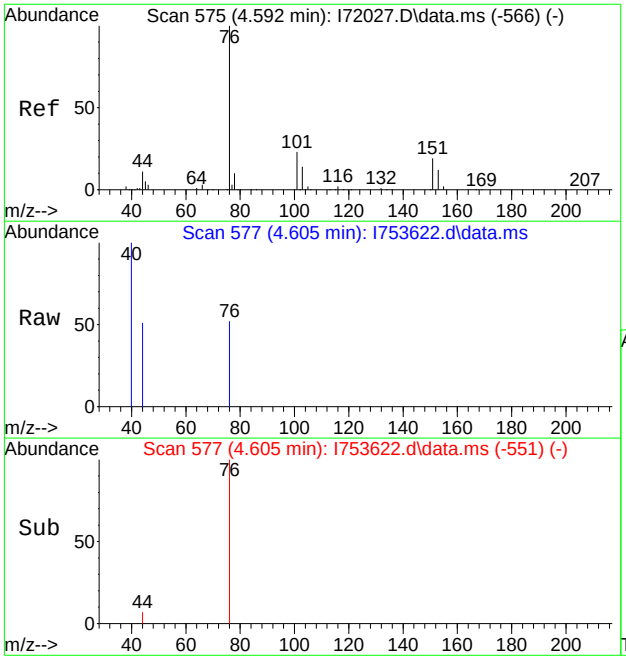
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753622.d
Acq On : 15 Dec 2022 12:05 pm
Operator : kylieg
Sample : FC1200-3 Inst : MSVOA16
Misc : MS52987,VI2788,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:10:26 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

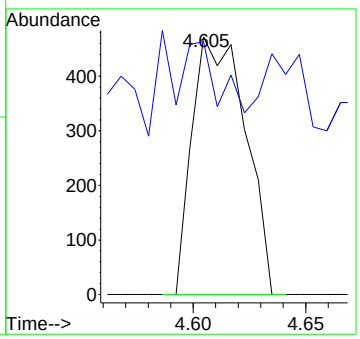


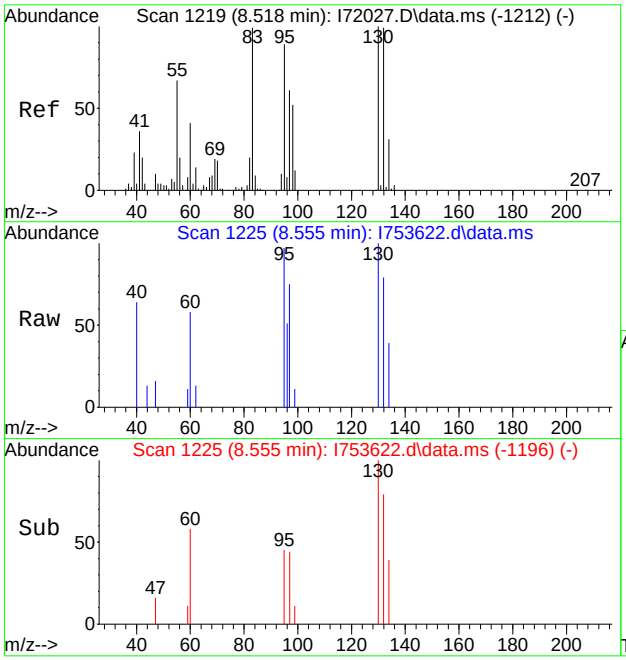


#14
Carbon Disulfide
Concen: 0.24 ug/L
RT: 4.605 min Scan# 577
Delta R.T. 0.007 min
Lab File: I753622.d
Acq: 15 Dec 2022 12:05 pm

Tgt Ion: 76 Resp: 779

Ion	Ratio	Lower	Upper
76	100		
44	12.7	0.0	47.4

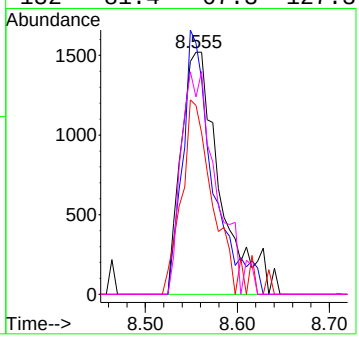




#53
Trichloroethene
Concen: 3.69 ug/L
RT: 8.555 min Scan# 1225
Delta R.T. 0.025 min
Lab File: I753622.d
Acq: 15 Dec 2022 12:05 pm

Tgt Ion: 95 Resp: 4500

Ion	Ratio	Lower	Upper
95	100		
130	103.6	65.3	125.3
97	78.0	35.2	95.2
132	81.4	67.3	127.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96246.D
Acq On : 12 Dec 2022 3:53 pm
Operator : courtnef
Sample : FC1200-3 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:16:34 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

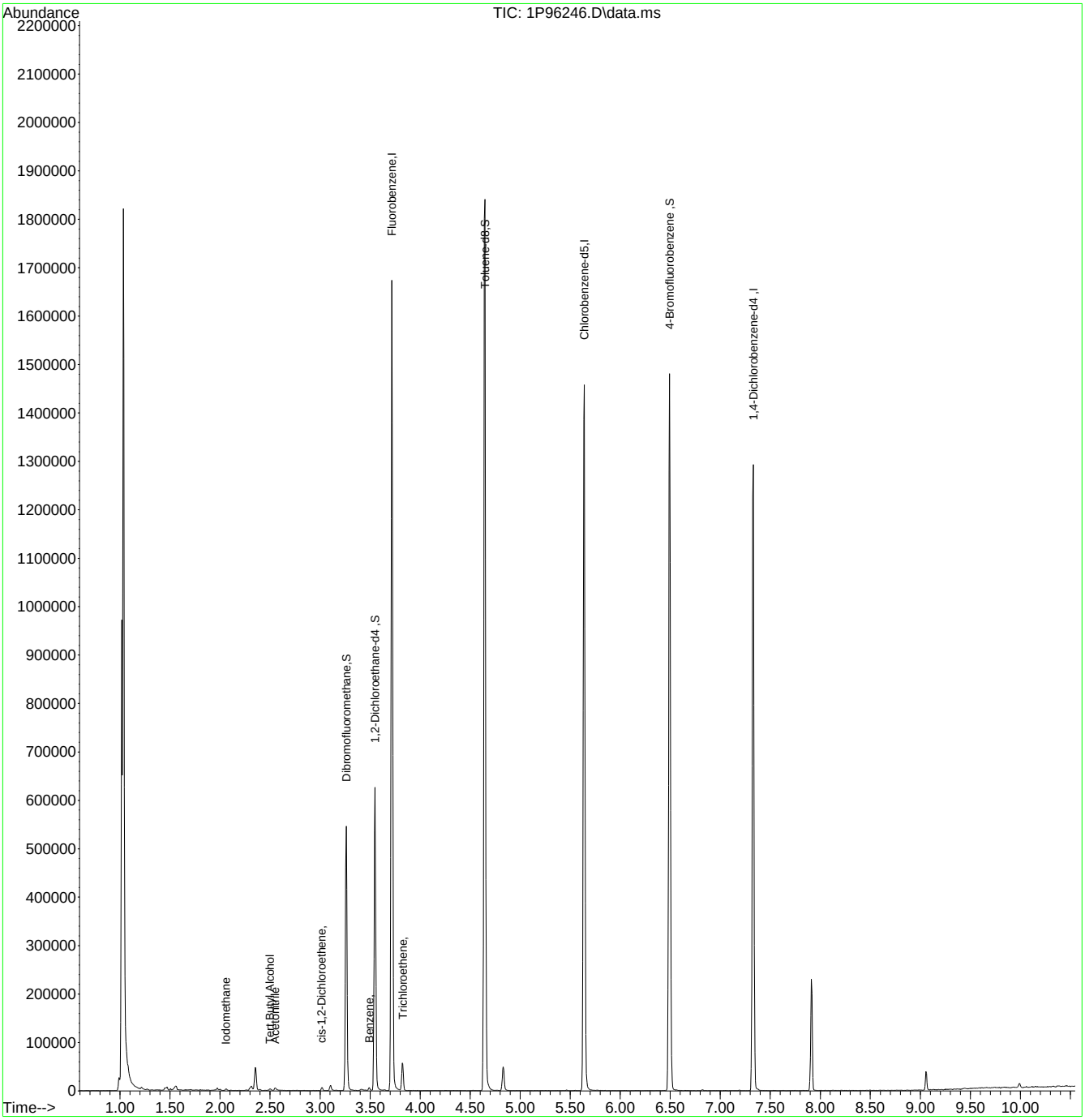
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.716	96	869943	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	550117	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	224641	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.261	113	192564	53.08	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.16%			
49) 1,2-Dichloroethane-d4	3.549	65	273504	52.32	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 104.64%			
63) Toluene-d8	4.647	98	804725	49.85	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.70%			
86) 4-Bromofluorobenzene	6.493	174	192279	56.04	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 112.08%			
Target Compounds						Qvalue
15) Iodomethane	2.058	142	2381	5.19	ug/L	88
24) Tert Butyl Alcohol	2.498	59	2701	2.27	ug/L	87
25) Acetonitrile	2.550	41	5282	6.33	ug/L	88
32) cis-1,2-Dichloroethene	3.015	96	1770	0.52	ug/L #	79
47) Benzene	3.491	78	3468	0.23	ug/L	70
53) Trichloroethene	3.826	95	12629	3.61	ug/L	99

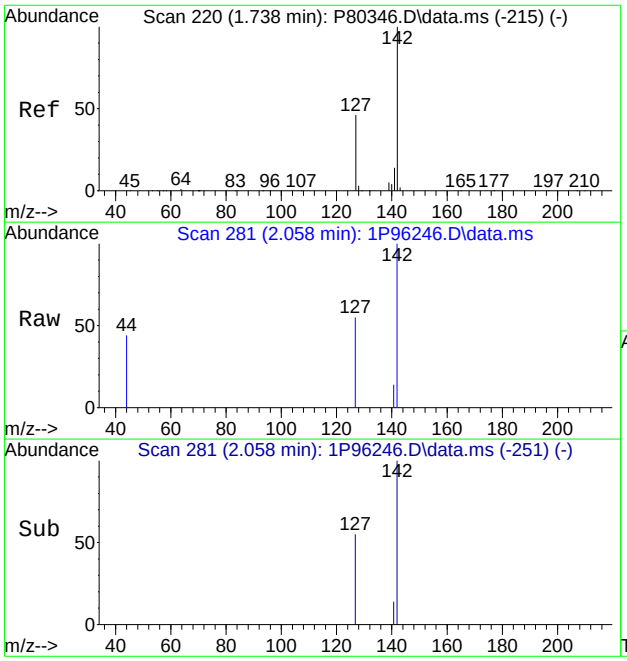
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96246.D
Acq On : 12 Dec 2022 3:53 pm
Operator : courtnef
Sample : FC1200-3 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:16:34 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

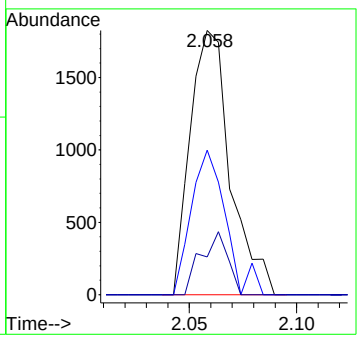


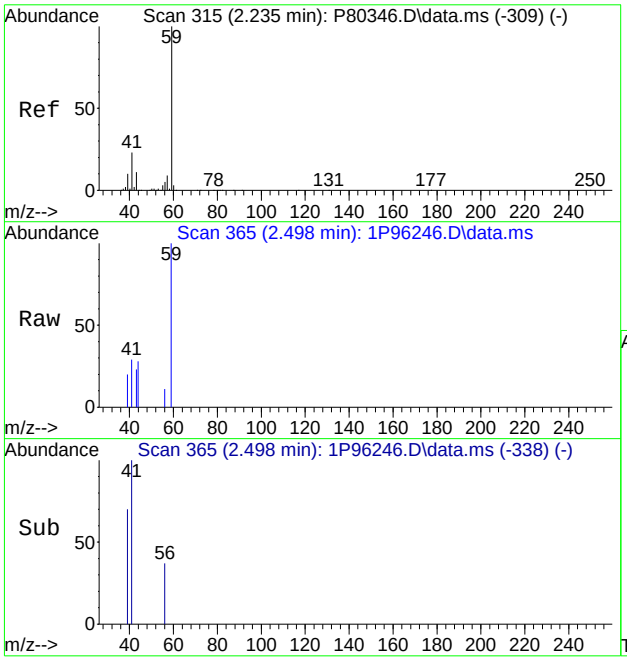


#15
Iodomethane
Concen: 5.19 ug/L
RT: 2.058 min Scan# 281
Delta R.T. 0.008 min
Lab File: 1P96246.D
Acq: 12 Dec 2022 3:53 pm

Tgt Ion:142 Resp: 2381

Ion	Ratio	Lower	Upper
142	100		
127	54.7	25.3	65.3
141	14.3	0.0	33.1

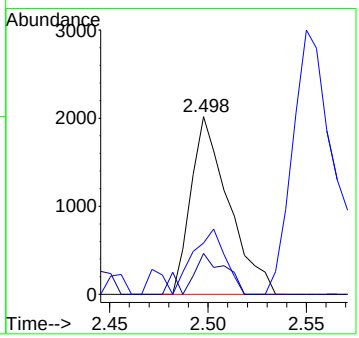


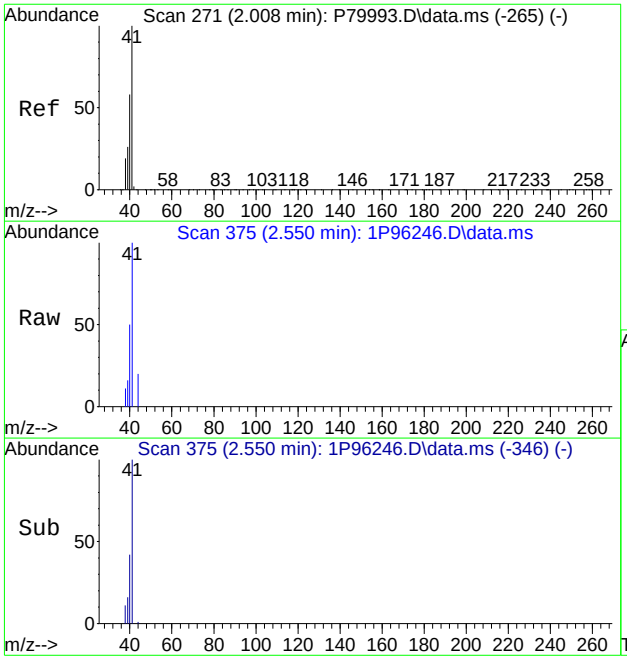


#24
Tert Butyl Alcohol
Concen: 2.27 ug/L
RT: 2.498 min Scan# 365
Delta R.T. -0.007 min
Lab File: 1P96246.D
Acq: 12 Dec 2022 3:53 pm

Tgt Ion: 59 Resp: 2701

Ion	Ratio	Lower	Upper
59	100		
41	17.9	2.6	42.6
43	23.0	0.0	35.1

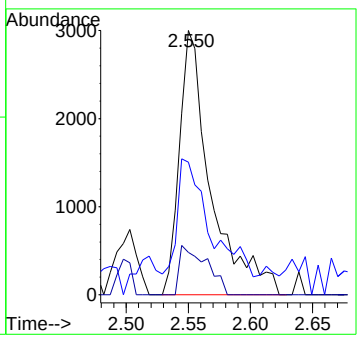


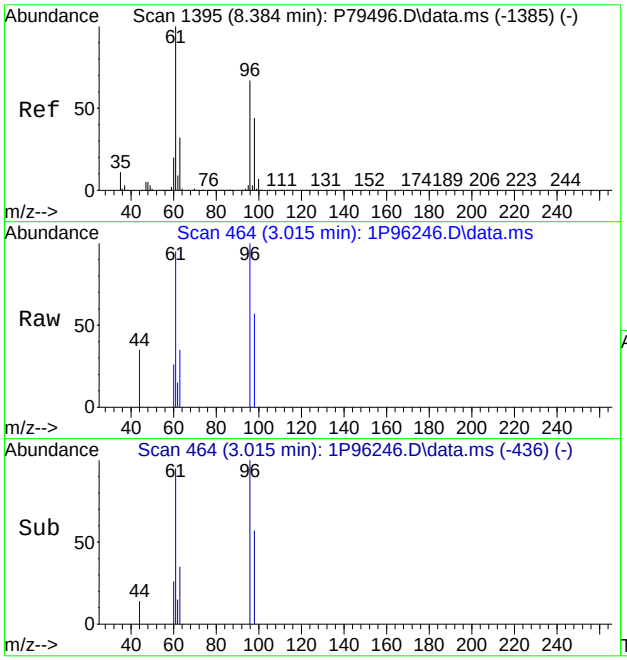


#25
Acetonitrile
Concen: 6.33 ug/L
RT: 2.550 min Scan# 375
Delta R.T. 0.003 min
Lab File: 1P96246.D
Acq: 12 Dec 2022 3:53 pm

Tgt Ion: 41 Resp: 5282

Ion	Ratio	Lower	Upper
41	100		
40	42.3	31.6	71.6
39	16.0	0.4	40.4

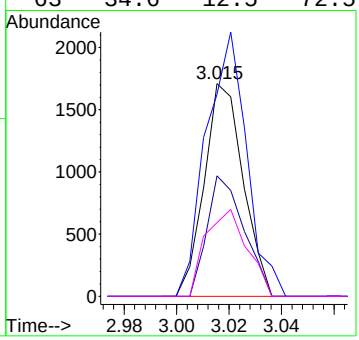


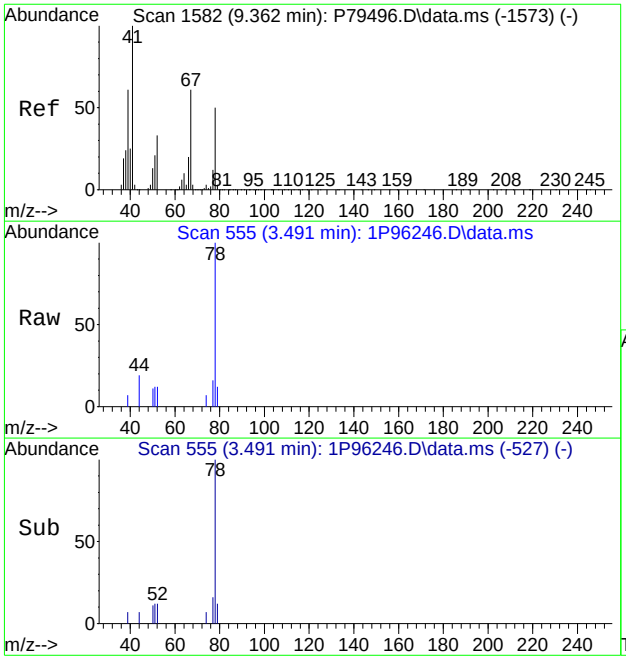


#32
cis-1,2-Dichloroethene
Concen: 0.52 ug/L
RT: 3.015 min Scan# 464
Delta R.T. -0.003 min
Lab File: 1P96246.D
Acq: 12 Dec 2022 3:53 pm

Tgt Ion: 96 Resp: 1770

Ion	Ratio	Lower	Upper
96	100		
61	95.0	101.2	161.2#
98	56.7	32.7	92.7
63	34.6	12.5	72.5

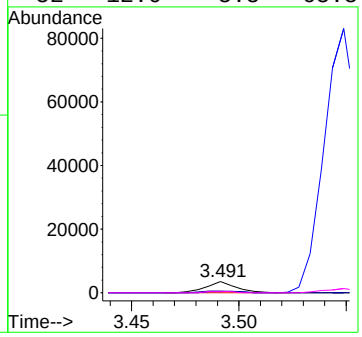


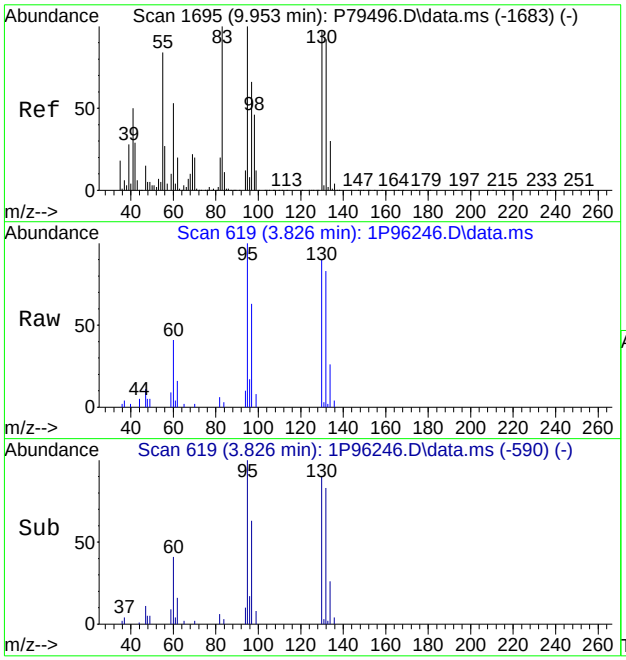


#47
Benzene
Concen: 0.23 ug/L
RT: 3.491 min Scan# 555
Delta R.T. -0.003 min
Lab File: 1P96246.D
Acq: 12 Dec 2022 3:53 pm

Tgt Ion: 78 Resp: 3468

Ion	Ratio	Lower	Upper
78	100		
51	11.6	0.0	56.9
77	16.2	0.0	53.3
52	12.0	5.5	65.5

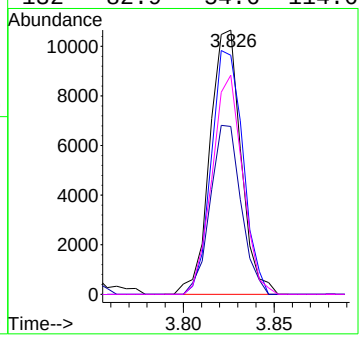




#53
Trichloroethene
Concen: 3.61 ug/L
RT: 3.826 min Scan# 619
Delta R.T. 0.002 min
Lab File: 1P96246.D
Acq: 12 Dec 2022 3:53 pm

Tgt Ion: 95 Resp: 12629

Ion	Ratio	Lower	Upper
95	100		
130	90.4	60.0	120.0
97	63.5	32.2	92.2
132	82.9	54.6	114.6



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/14/22 01:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96248.D
Acq On : 12 Dec 2022 4:25 pm
Operator : courtnef
Sample : FC1200-4 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:17:30 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

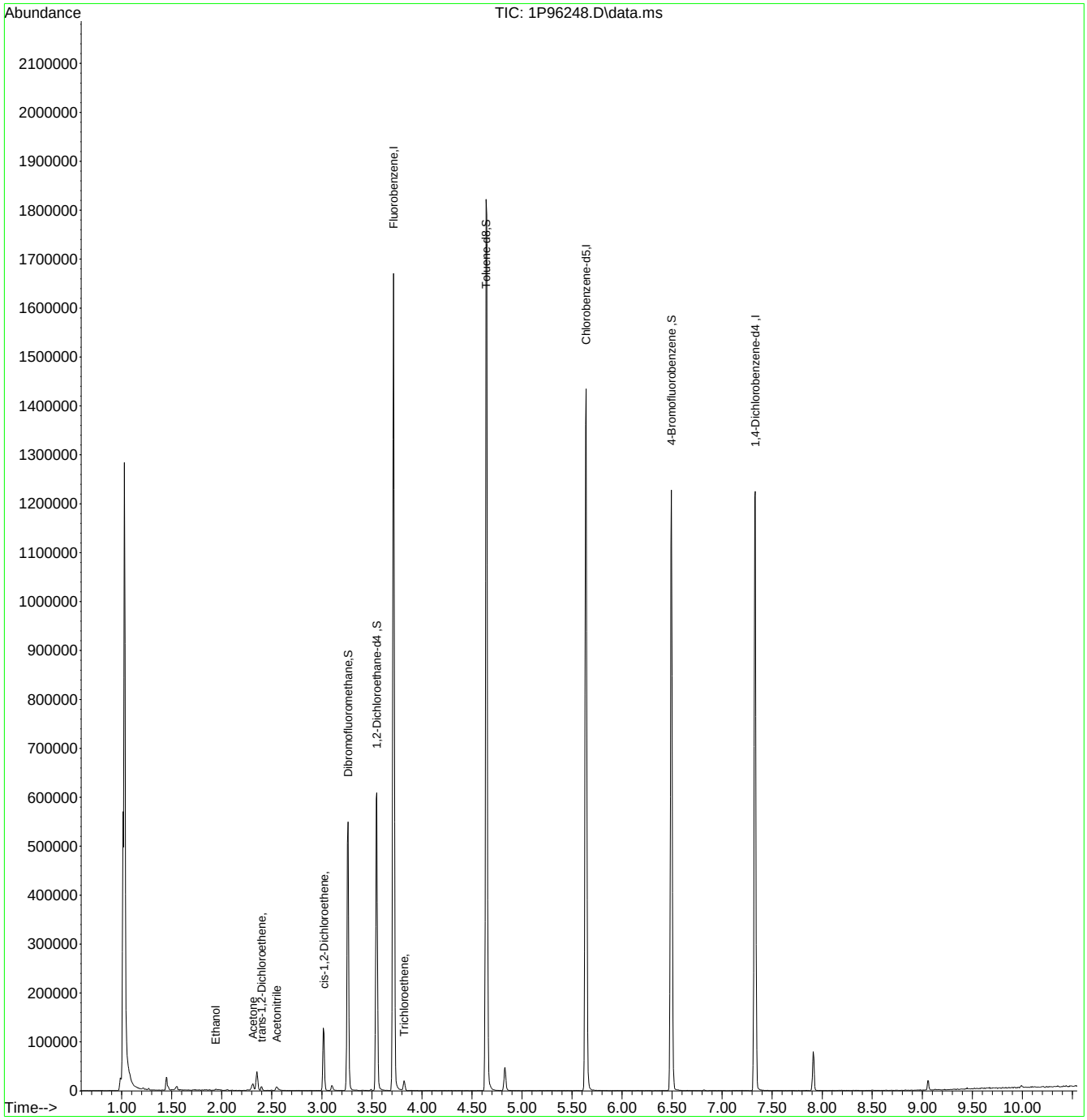
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.716	96	854826	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	547705	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.331	152	230146	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.261	113	193269	54.22	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 108.44%			
49) 1,2-Dichloroethane-d4	3.549	65	274185	53.37	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.74%			
63) Toluene-d8	4.642	98	803726	50.01	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.02%			
86) 4-Bromofluorobenzene	6.494	174	185606	52.80	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.60%			
Target Compounds						Qvalue
10) Ethanol	1.938	45	1868	14.64	ug/L	91
19) Acetone	2.310	43	13411	5.77	ug/L	85
21) trans-1,2-Dichloroethene	2.398	61	2663	0.57	ug/L	91
25) Acetonitrile	2.550	41	7063m	8.62	ug/L	
32) cis-1,2-Dichloroethene	3.021	96	33865	10.18	ug/L	92
53) Trichloroethene	3.821	95	4245	1.23	ug/L	93

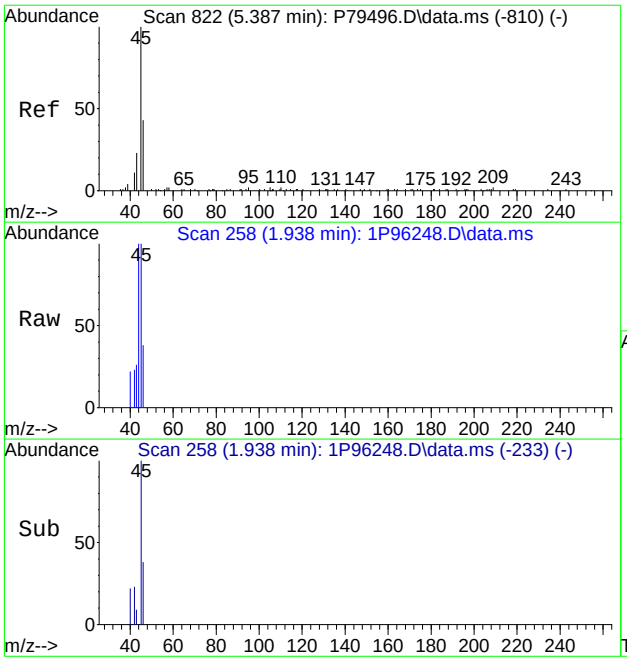
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96248.D
Acq On : 12 Dec 2022 4:25 pm
Operator : courtnef
Sample : FC1200-4 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:17:30 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

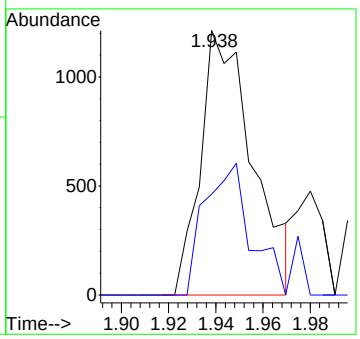


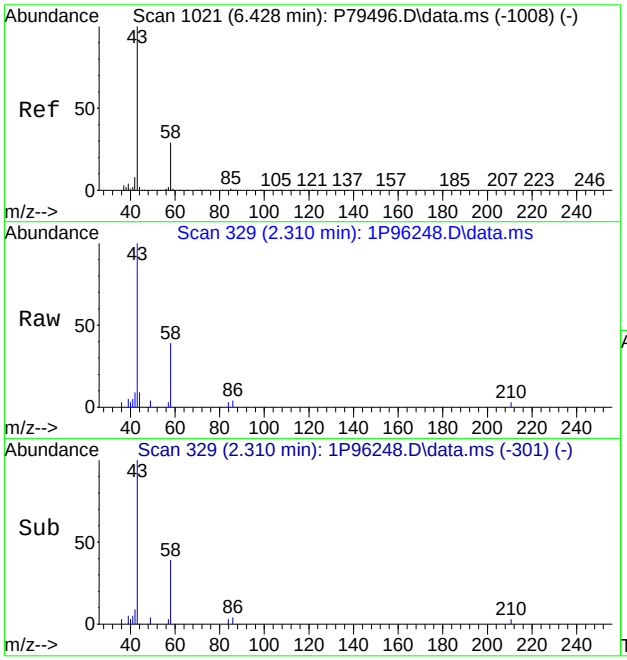


#10
Ethanol
Concen: 14.64 ug/L
RT: 1.938 min Scan# 258
Delta R.T. -0.018 min
Lab File: 1P96248.D
Acq: 12 Dec 2022 4:25 pm

Tgt Ion: 45 Resp: 1868

Ion	Ratio	Lower	Upper
45	100		
46	38.1	24.3	64.3

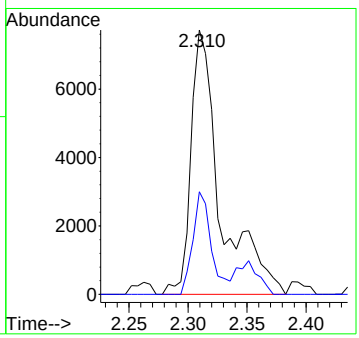


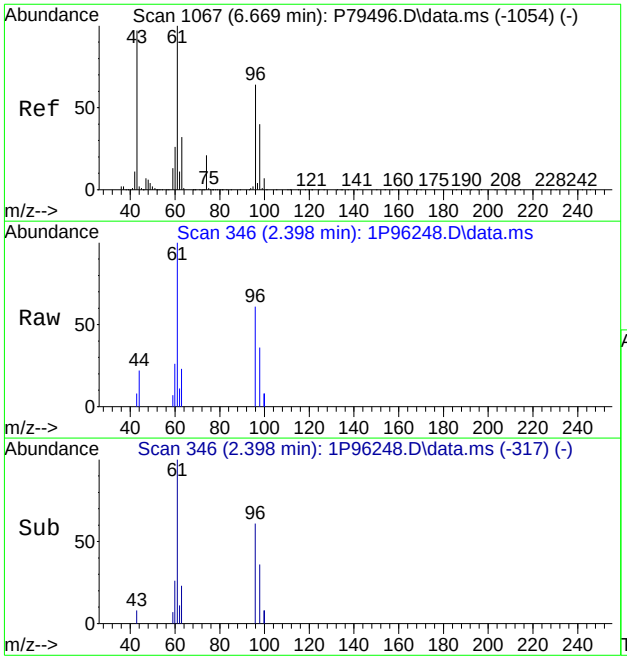


#19
Acetone
Concen: 5.77 ug/L
RT: 2.310 min Scan# 329
Delta R.T. -0.002 min
Lab File: 1P96248.D
Acq: 12 Dec 2022 4:25 pm

Tgt Ion: 43 Resp: 13411

Ion	Ratio	Lower	Upper
43	100		
58	38.8	0.6	60.6

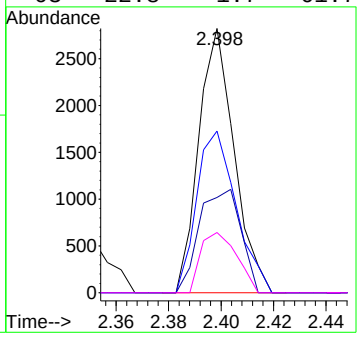


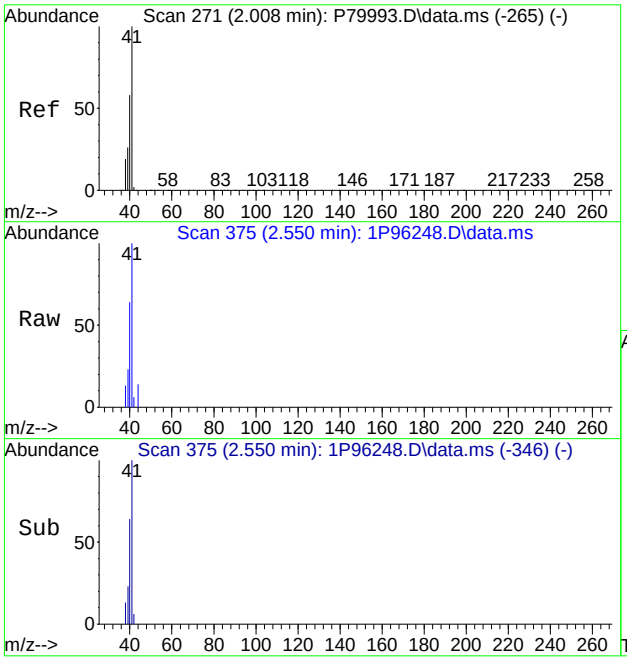


#21
trans-1,2-Dichloroethene
Concen: 0.57 ug/L
RT: 2.398 min Scan# 346
Delta R.T. 0.002 min
Lab File: 1P96248.D
Acq: 12 Dec 2022 4:25 pm

Tgt Ion: 61 Resp: 2663

Ion	Ratio	Lower	Upper
61	100		
96	61.2	36.3	96.3
98	36.0	11.6	71.6
63	22.8	1.7	61.7

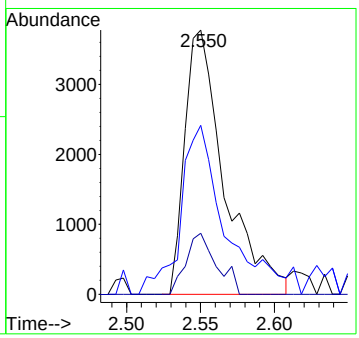


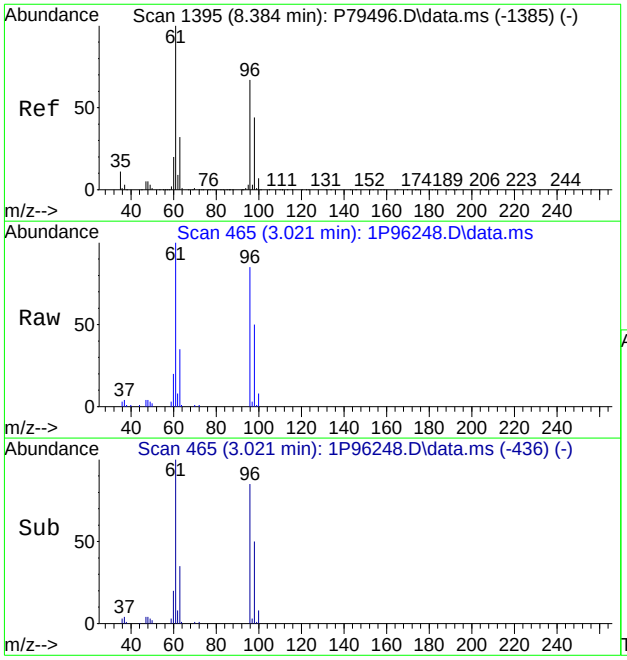


#25
Acetonitrile
Concen: 8.62 ug/L m
RT: 2.550 min Scan# 375
Delta R.T. 0.003 min
Lab File: 1P96248.D
Acq: 12 Dec 2022 4:25 pm

Tgt Ion: 41 Resp: 7063

Ion	Ratio	Lower	Upper
41	100		
40	63.9	31.6	71.6
39	23.1	0.4	40.4

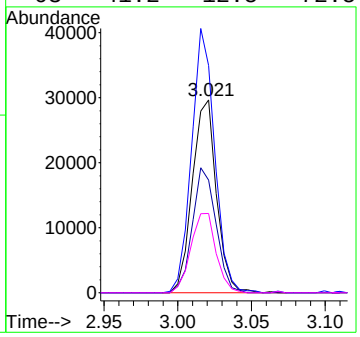


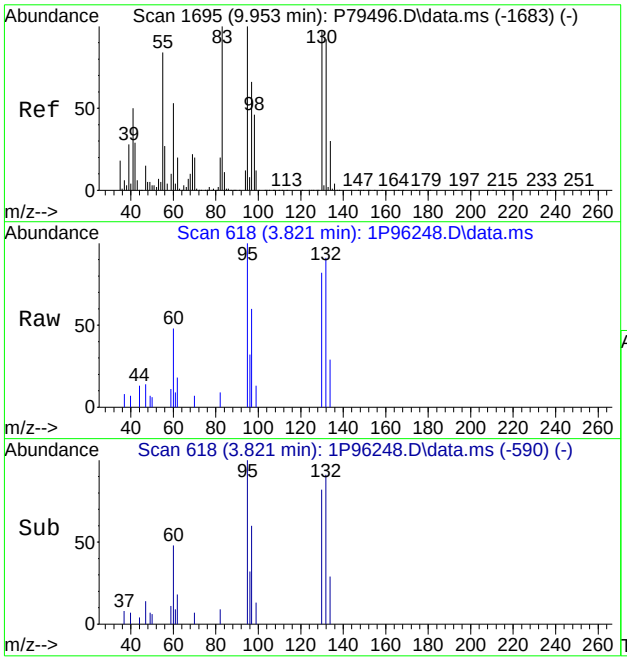


#32
cis-1,2-Dichloroethene
Concen: 10.18 ug/L
RT: 3.021 min Scan# 465
Delta R.T. 0.002 min
Lab File: 1P96248.D
Acq: 12 Dec 2022 4:25 pm

Tgt Ion: 96 Resp: 33865

Ion	Ratio	Lower	Upper
96	100		
61	117.8	101.2	161.2
98	58.5	32.7	92.7
63	41.2	12.5	72.5

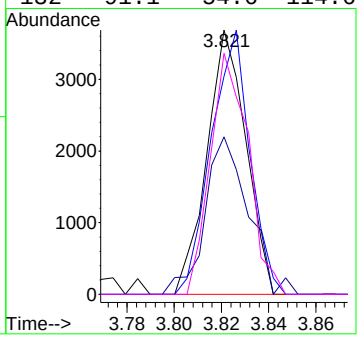




#53
Trichloroethene
Concen: 1.23 ug/L
RT: 3.821 min Scan# 618
Delta R.T. -0.003 min
Lab File: 1P96248.D
Acq: 12 Dec 2022 4:25 pm

Tgt Ion: 95 Resp: 4245

Ion	Ratio	Lower	Upper
95	100		
130	82.5	60.0	120.0
97	59.5	32.2	92.2
132	91.1	54.6	114.6



Manual Integration Approval Summary

Sample Number: FC1200-4
Lab FileID: 1P96248.D
Injection Time: 12/12/22 16:25

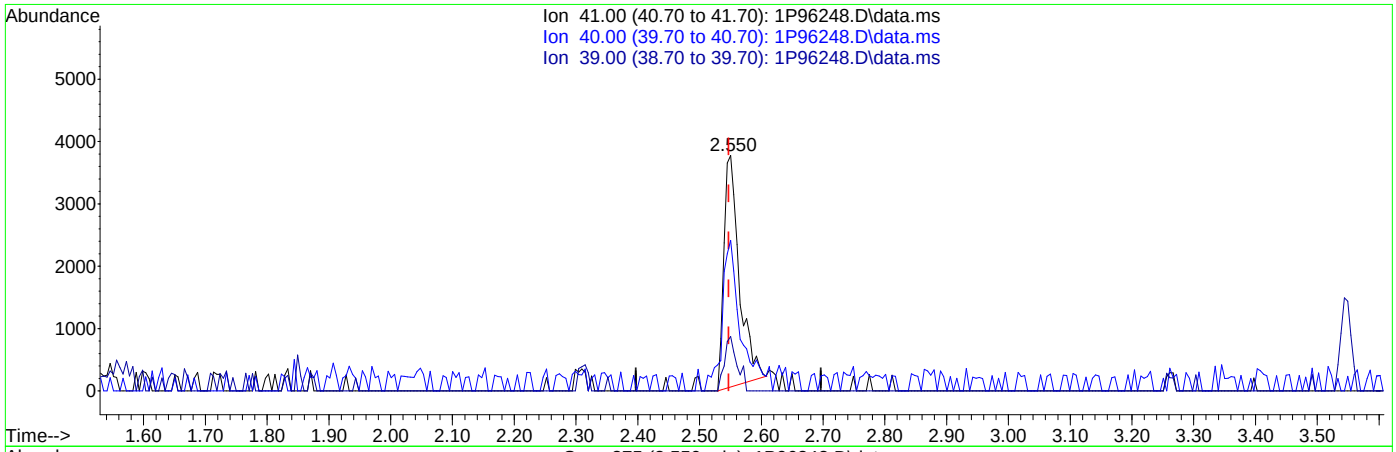
Method: SW846 8260D
Analyst approved: 12/13/22 01:04 Jennifer Fereira
Supervisor approved: 12/14/22 01:34 Jennifer Fereira

Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.55	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96248.D
Acq On : 12 Dec 2022 4:25 pm
Operator : courtnef
Sample : FC1200-4 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:05:45 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



TIC: 1P96248.D\data.ms

(25) Acetonitrile

2.550min (+0.003) 7.94ug/L

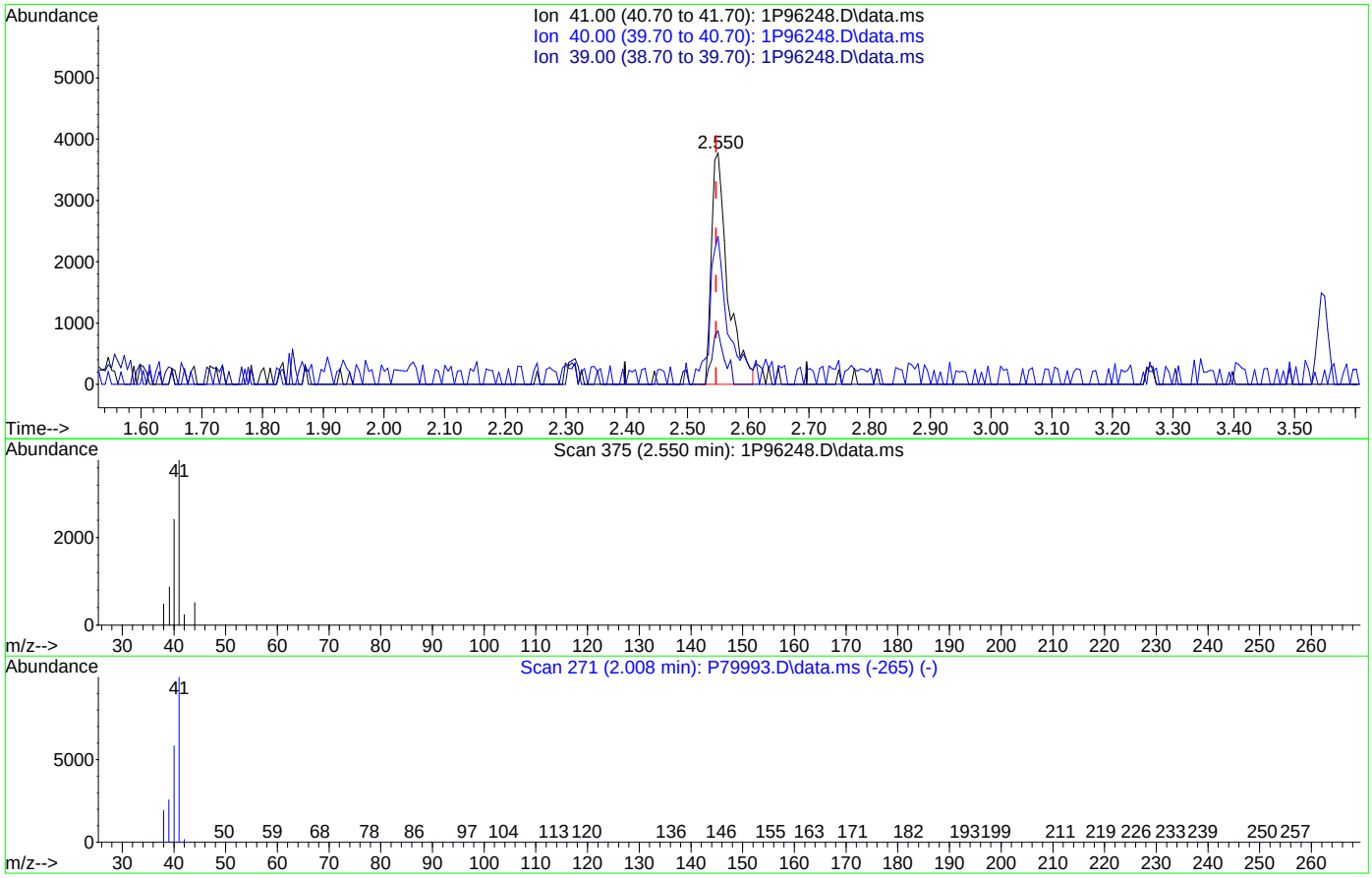
response 6507

Ion	Exp%	Act%
41.00	100	100
40.00	51.60	57.73
39.00	20.40	23.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96248.D
Acq On : 12 Dec 2022 4:25 pm
Operator : courtnef
Sample : FC1200-4 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:05:45 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



TIC: 1P96248.D\data.ms

(25) Acetonitrile

2.550min (+0.003) 8.62ug/L m

response 7063

Ion	Exp%	Act%
41.00	100	100
40.00	51.60	63.95
39.00	20.40	23.11
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96250.D
Acq On : 12 Dec 2022 4:57 pm
Operator : courtnef
Sample : FC1200-5 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:18:05 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

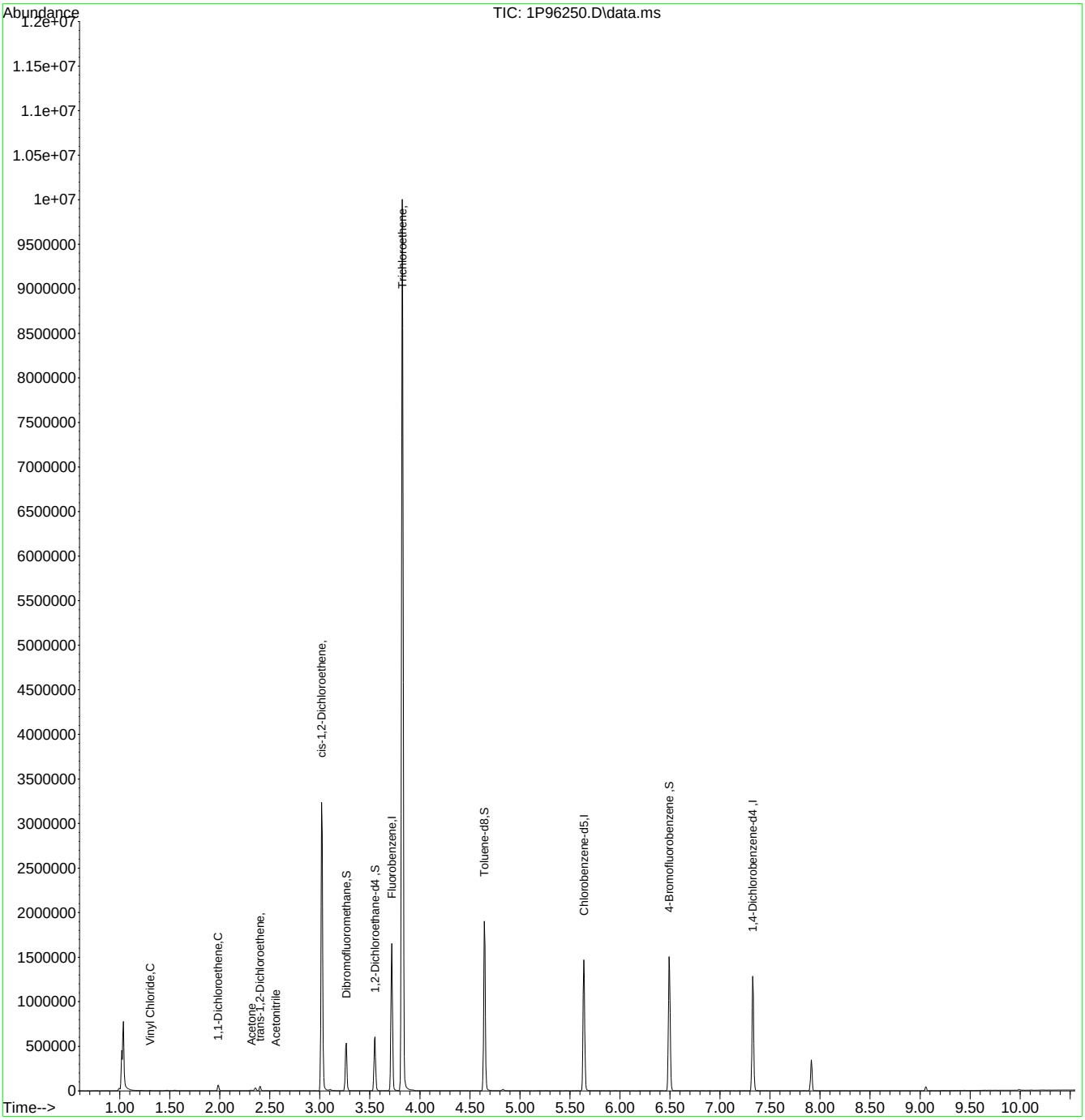
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.719	96	854428	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.639	117	552331	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.328	152	224243	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.264	113	187974	52.76	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.52%			
49) 1,2-Dichloroethane-d4	3.552	65	269015	52.39	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 104.78%			
63) Toluene-d8	4.645	98	797557	49.21	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.42%			
86) 4-Bromofluorobenzene	6.491	174	191050	55.78	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 111.56%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.303	62	2625	0.70	ug/L	99
12) 1,1-Dichloroethene	1.983	61	23504	4.81	ug/L	94
19) Acetone	2.317	43	5715	2.46	ug/L	96
21) trans-1,2-Dichloroethene	2.401	61	15911	3.40	ug/L	95
25) Acetonitrile	2.558	41	3558	4.33	ug/L	88
32) cis-1,2-Dichloroethene	3.018	96	825003	248.03	ug/L	95
53) Trichloroethene	3.824	95	2188098	636.33	ug/L	97

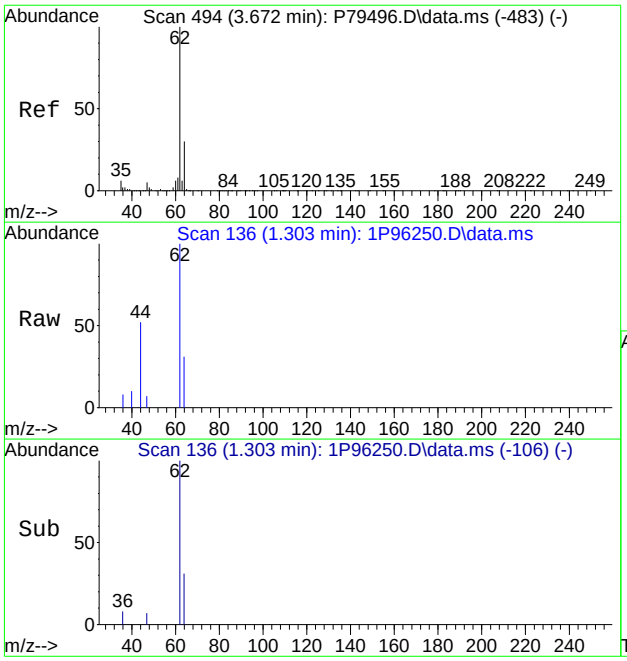
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96250.D
Acq On : 12 Dec 2022 4:57 pm
Operator : courtnef
Sample : FC1200-5 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:18:05 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

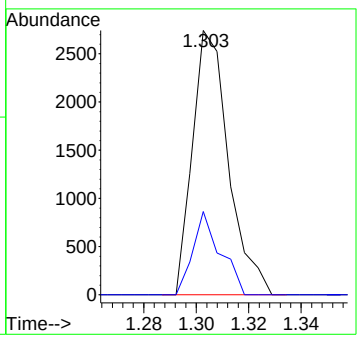


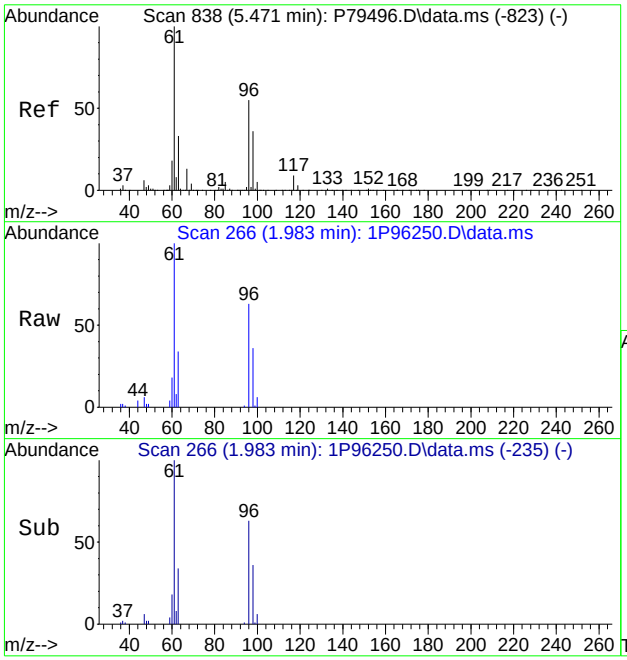


#5
Vinyl Chloride
Concen: 0.70 ug/L
RT: 1.303 min Scan# 136
Delta R.T. 0.005 min
Lab File: 1P96250.D
Acq: 12 Dec 2022 4:57 pm

Tgt Ion: 62 Resp: 2625

Ion	Ratio	Lower	Upper
62	100		
64	31.5	1.0	61.0

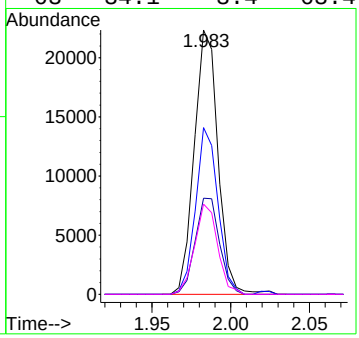


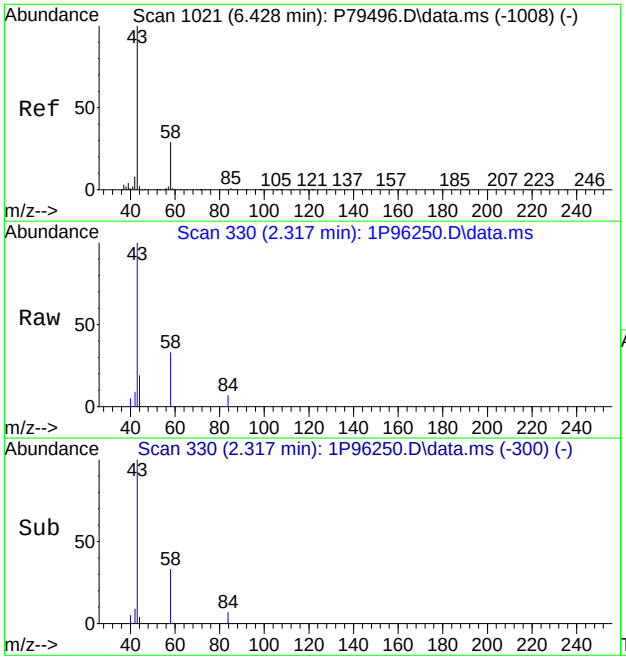


#12
1,1-Dichloroethene
Concen: 4.81 ug/L
RT: 1.983 min Scan# 266
Delta R.T. 0.010 min
Lab File: 1P96250.D
Acq: 12 Dec 2022 4:57 pm

Tgt Ion: 61 Resp: 23504

Ion	Ratio	Lower	Upper
61	100		
96	63.0	24.7	84.7
98	36.4	7.5	67.5
63	34.1	3.4	63.4

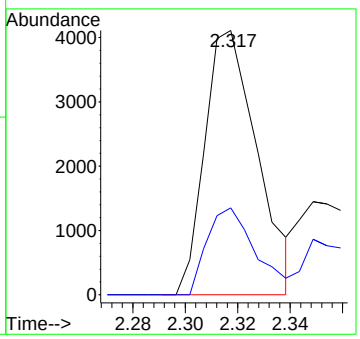


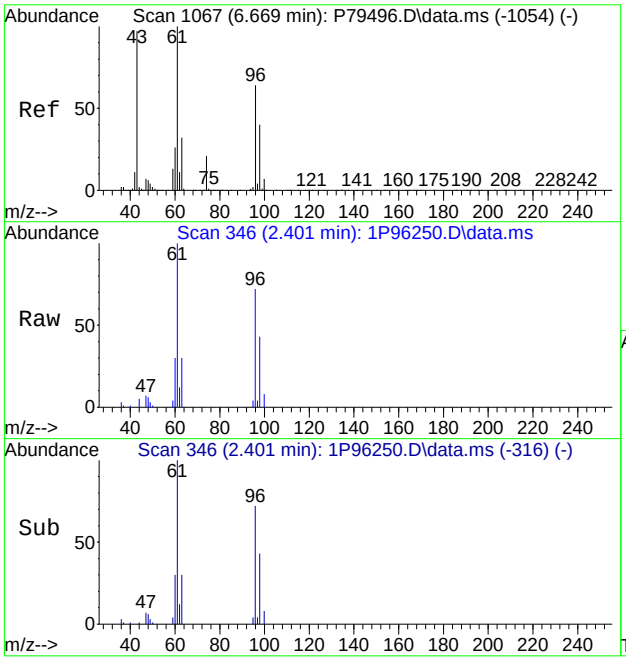


#19
Acetone
Concen: 2.46 ug/L
RT: 2.317 min Scan# 330
Delta R.T. 0.005 min
Lab File: 1P96250.D
Acq: 12 Dec 2022 4:57 pm

Tgt Ion: 43 Resp: 5715

Ion	Ratio	Lower	Upper
43	100		
58	32.8	0.6	60.6

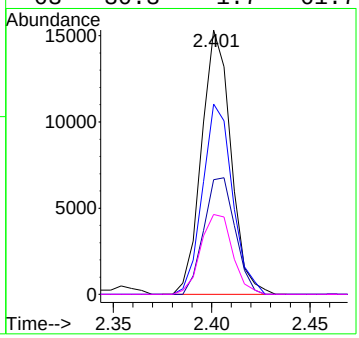


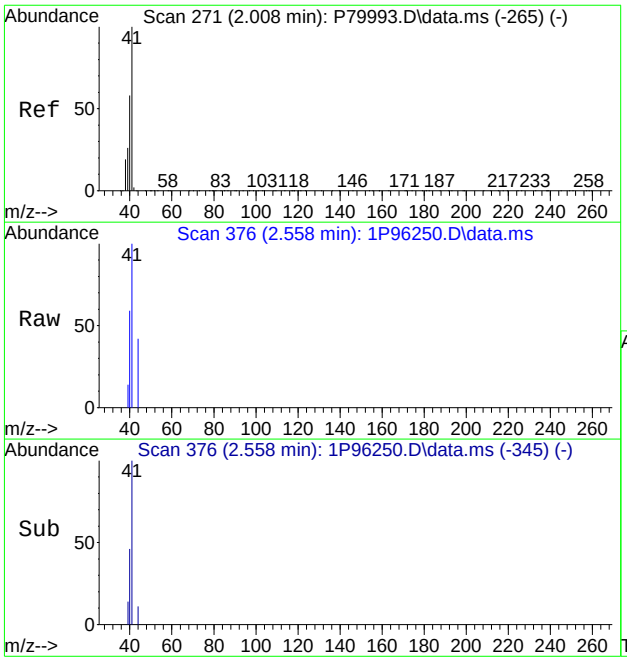


#21
trans-1,2-Dichloroethene
Concen: 3.40 ug/L
RT: 2.401 min Scan# 346
Delta R.T. 0.005 min
Lab File: 1P96250.D
Acq: 12 Dec 2022 4:57 pm

Tgt Ion: 61 Resp: 15911

Ion	Ratio	Lower	Upper
61	100		
96	72.0	36.3	96.3
98	43.3	11.6	71.6
63	30.3	1.7	61.7

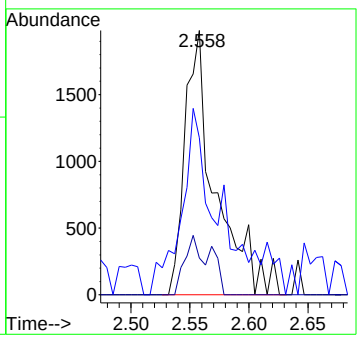


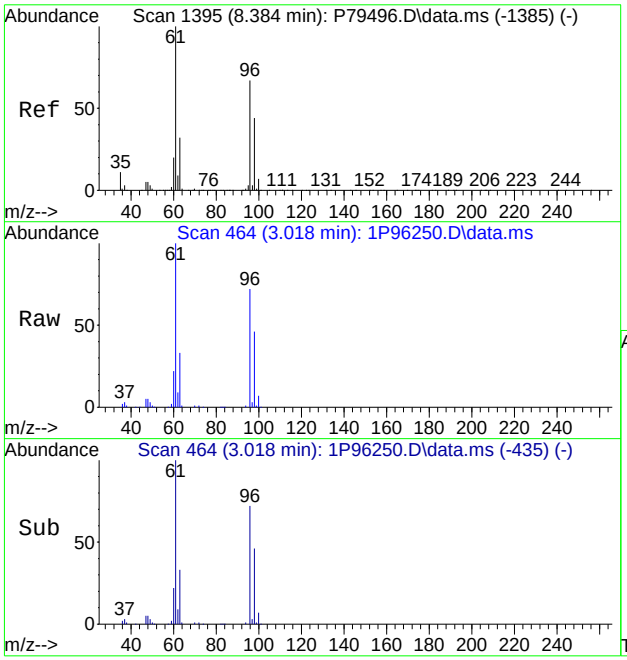


#25
Acetonitrile
Concen: 4.33 ug/L
RT: 2.558 min Scan# 376
Delta R.T. 0.011 min
Lab File: 1P96250.D
Acq: 12 Dec 2022 4:57 pm

Tgt Ion: 41 Resp: 3558

Ion	Ratio	Lower	Upper
41	100		
40	59.3	31.6	71.6
39	14.0	0.4	40.4

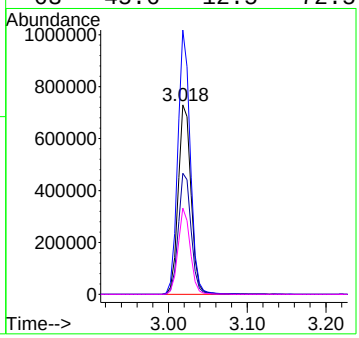


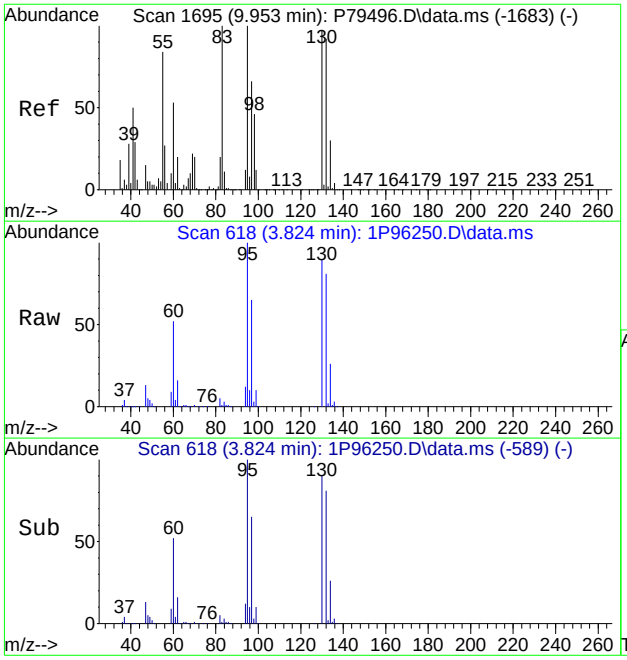


#32
cis-1,2-Dichloroethene
Concen: 248.03 ug/L
RT: 3.018 min Scan# 464
Delta R.T. -0.000 min
Lab File: 1P96250.D
Acq: 12 Dec 2022 4:57 pm

Tgt Ion: 96 Resp: 825003

Ion	Ratio	Lower	Upper
96	100		
61	139.6	101.2	161.2
98	64.0	32.7	92.7
63	45.6	12.5	72.5

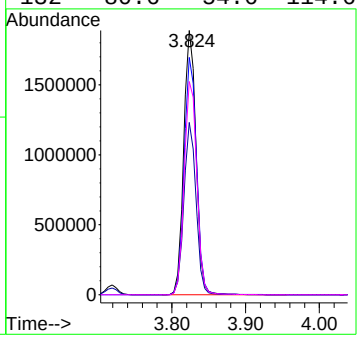




#53
Trichloroethene
Concen: 636.33 ug/L
RT: 3.824 min Scan# 618
Delta R.T. -0.000 min
Lab File: 1P96250.D
Acq: 12 Dec 2022 4:57 pm

Tgt Ion: 95 Resp: 2188098

Ion	Ratio	Lower	Upper
95	100		
130	89.8	60.0	120.0
97	65.1	32.2	92.2
132	80.6	54.6	114.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P1658-59\
Data File : 2P96295.D
Acq On : 13 Dec 2022 4:08 pm
Operator : courtnef
Sample : FC1200-5, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Dec 13 20:04:29 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

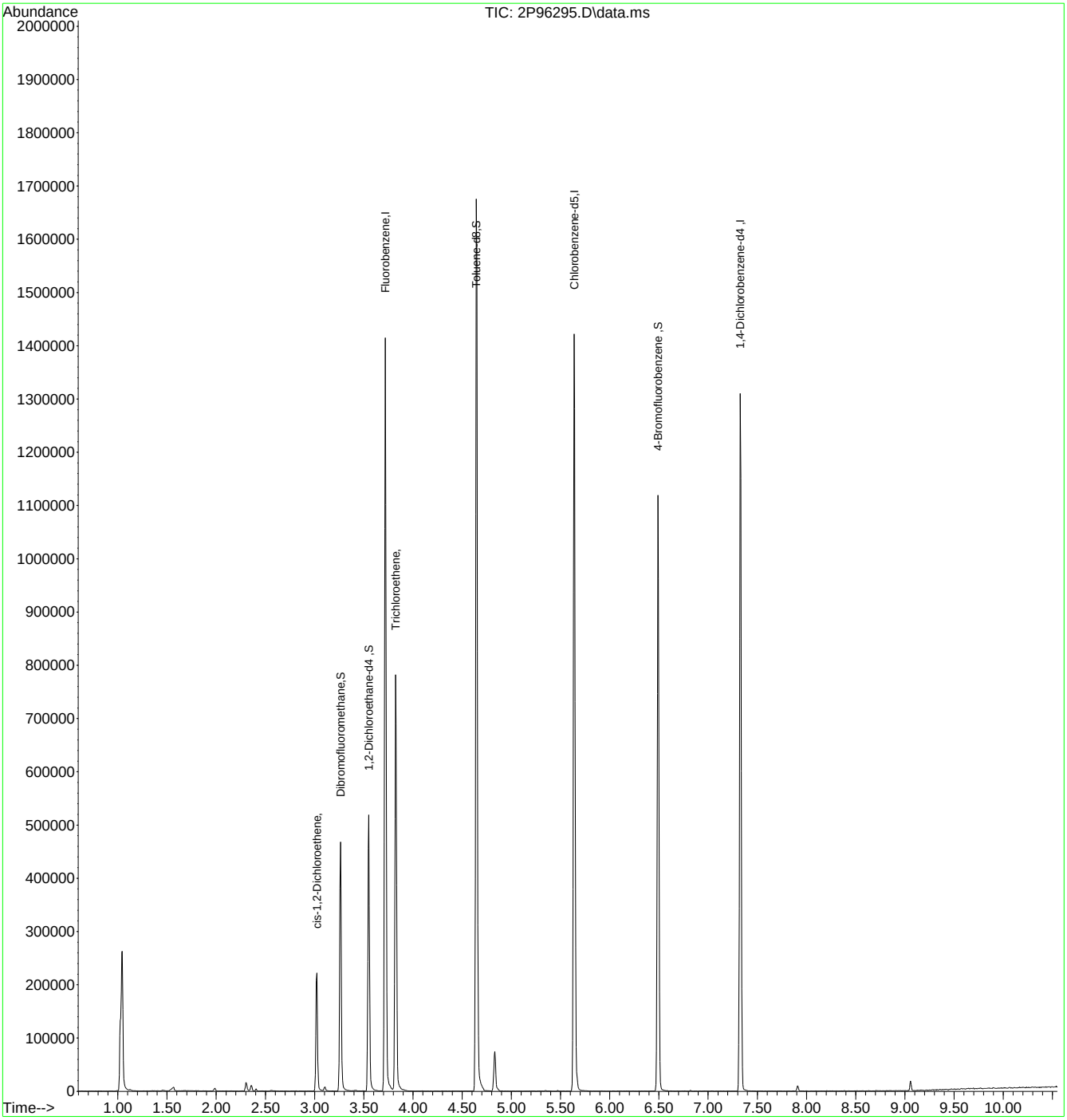
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		3.718	96	747531	50.00	ug/L	0.00
62) Chlorobenzene-d5		5.638	117	529992	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4		7.327	152	225022	50.00	ug/L	0.00
System Monitoring Compounds							
39) Dibromofluoromethane		3.263	113	166323	53.25	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	106.50%		
49) 1,2-Dichloroethane-d4		3.551	65	236058	52.52	ug/L	0.00
Spiked Amount	50.000	Range 79 - 125		Recovery =	105.04%		
63) Toluene-d8		4.644	98	736566	48.88	ug/L	0.00
Spiked Amount	50.000	Range 85 - 112		Recovery =	97.76%		
86) 4-Bromofluorobenzene		6.490	174	186193	53.99	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	107.98%		
Target Compounds							Qvalue
32) cis-1,2-Dichloroethene		3.023	96	59092	19.82	ug/L	98
53) Trichloroethene		3.823	95	171242	55.49	ug/L	97

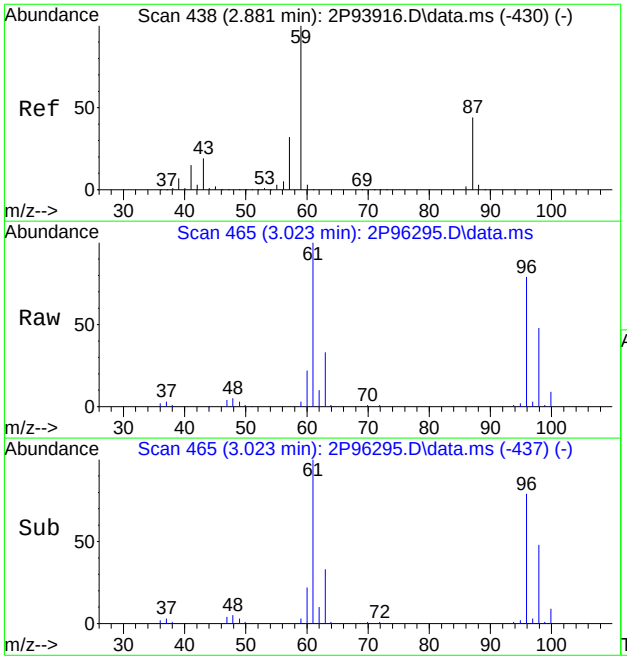
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P1658-59\
Data File : 2P96295.D
Acq On : 13 Dec 2022 4:08 pm
Operator : courtnef
Sample : FC1200-5, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Dec 13 20:04:29 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

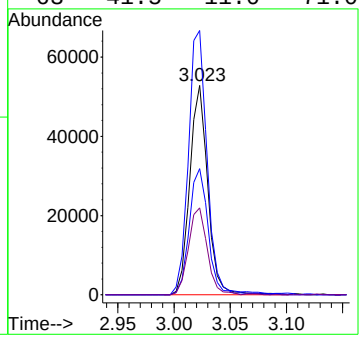


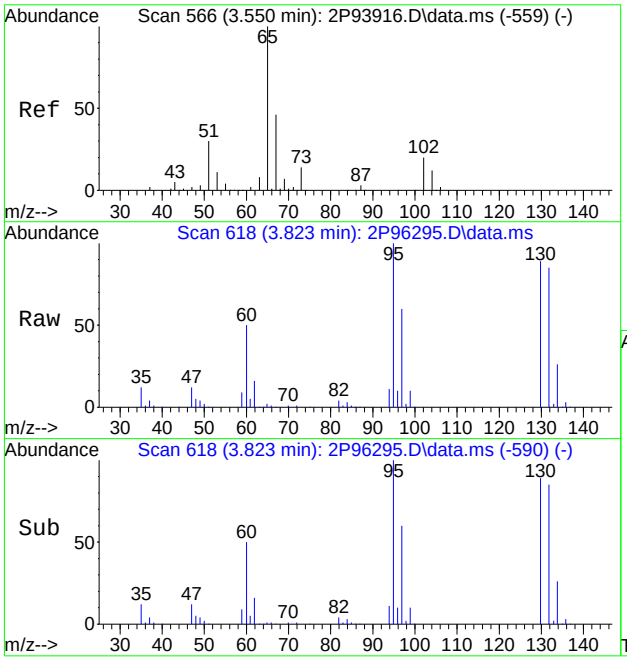


#32
cis-1,2-Dichloroethene
Concen: 19.82 ug/L
RT: 3.023 min Scan# 465
Delta R.T. -0.003 min
Lab File: 2P96295.D
Acq: 13 Dec 2022 4:08 pm

Tgt Ion: 96 Resp: 59092

Ion	Ratio	Lower	Upper
96	100		
61	126.3	95.0	155.0
98	60.3	33.8	93.8
63	41.5	11.0	71.0

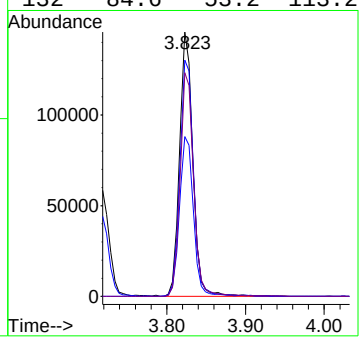




#53
Trichloroethene
Concen: 55.49 ug/L
RT: 3.823 min Scan# 618
Delta R.T. -0.003 min
Lab File: 2P96295.D
Acq: 13 Dec 2022 4:08 pm

Tgt Ion: 95 Resp: 171242

Ion	Ratio	Lower	Upper
95	100		
130	89.4	62.2	122.2
97	60.4	34.9	94.9
132	84.6	53.2	113.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96252.D
Acq On : 12 Dec 2022 5:28 pm
Operator : courtnef
Sample : FC1200-6 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:18:36 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

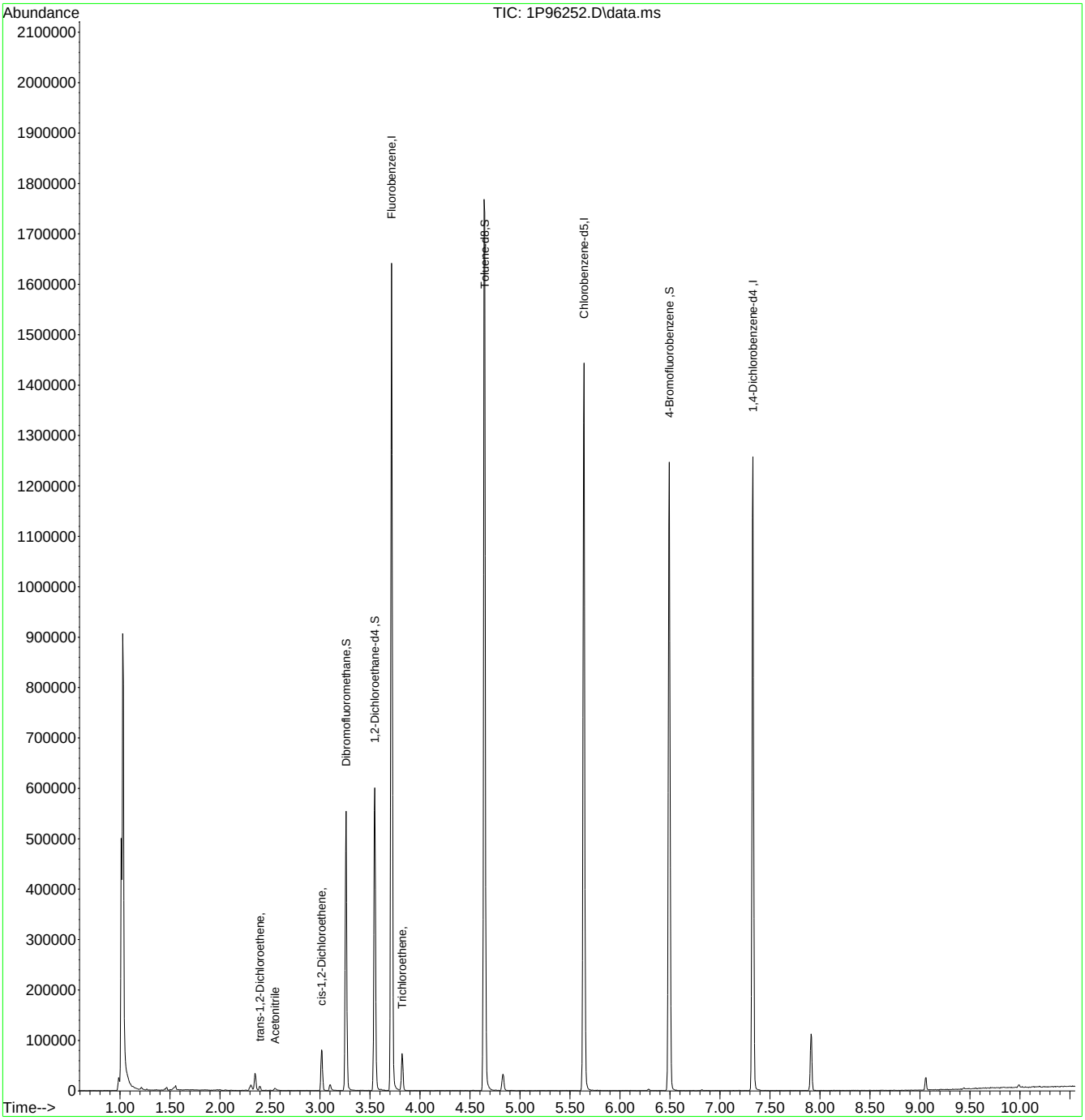
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.716	96	847561	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	536435	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	219593	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.261	113	187046	52.92	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.84%			
49) 1,2-Dichloroethane-d4	3.549	65	267391	52.50	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.00%			
63) Toluene-d8	4.647	98	785586	49.91	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.82%			
86) 4-Bromofluorobenzene	6.493	174	184089	54.88	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.76%			
Target Compounds						Qvalue
21) trans-1,2-Dichloroethene	2.398	61	3039	0.65	ug/L	94
25) Acetonitrile	2.550	41	4214	5.18	ug/L	95
32) cis-1,2-Dichloroethene	3.015	96	21396	6.48	ug/L	98
53) Trichloroethene	3.821	95	15213	4.46	ug/L	95

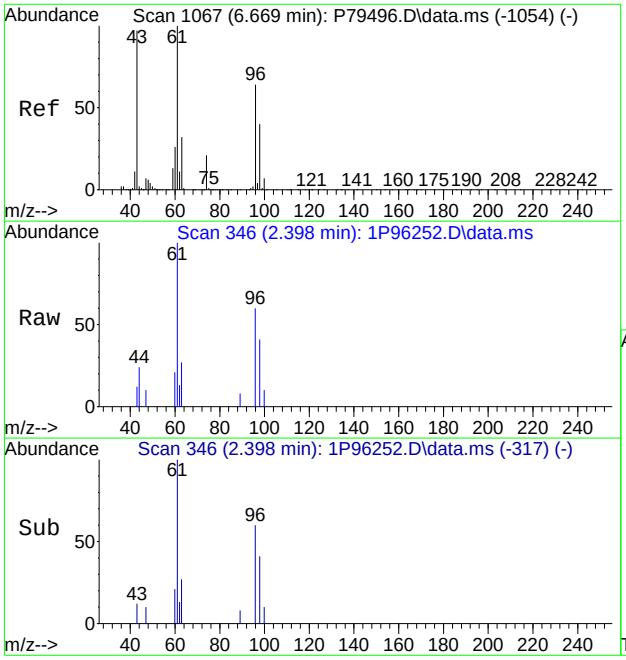
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96252.D
Acq On : 12 Dec 2022 5:28 pm
Operator : courtnef
Sample : FC1200-6 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:18:36 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

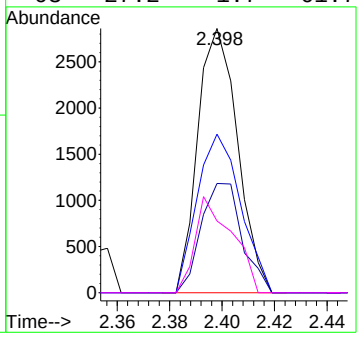


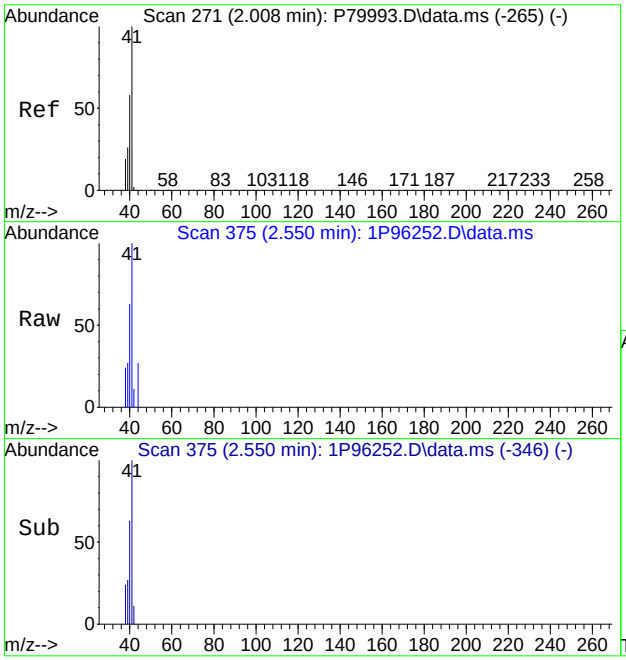


#21
trans-1,2-Dichloroethene
Concen: 0.65 ug/L
RT: 2.398 min Scan# 346
Delta R.T. 0.002 min
Lab File: 1P96252.D
Acq: 12 Dec 2022 5:28 pm

Tgt Ion: 61 Resp: 3039

Ion	Ratio	Lower	Upper
61	100		
96	60.0	36.3	96.3
98	41.3	11.6	71.6
63	27.2	1.7	61.7

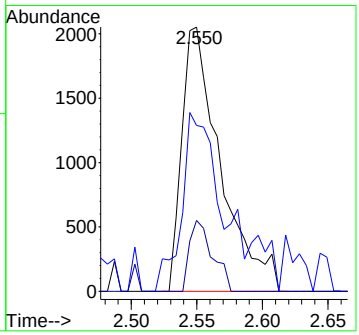


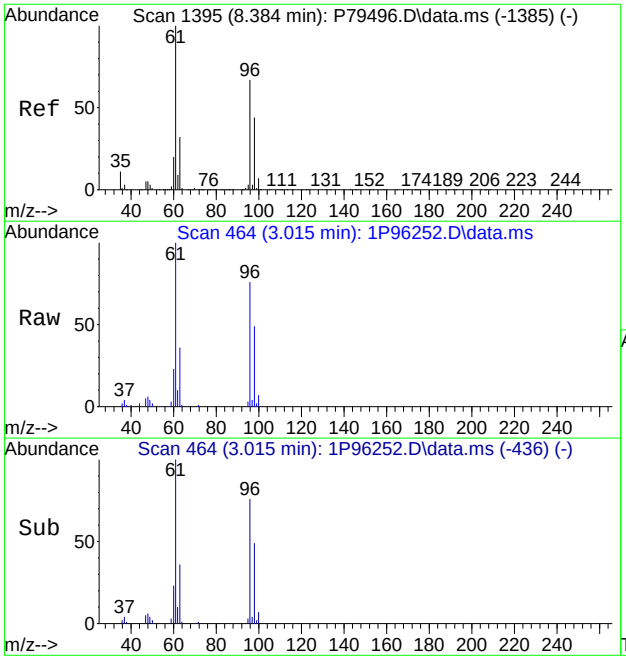


#25
Acetonitrile
Concen: 5.18 ug/L
RT: 2.550 min Scan# 375
Delta R.T. 0.003 min
Lab File: 1P96252.D
Acq: 12 Dec 2022 5:28 pm

Tgt Ion: 41 Resp: 4214

Ion	Ratio	Lower	Upper
41	100		
40	50.5	31.6	71.6
39	26.8	0.4	40.4

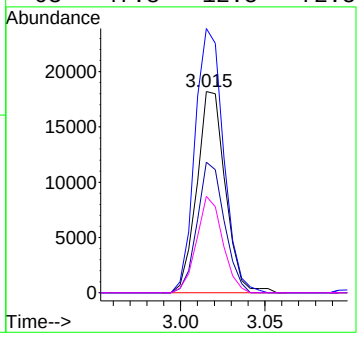


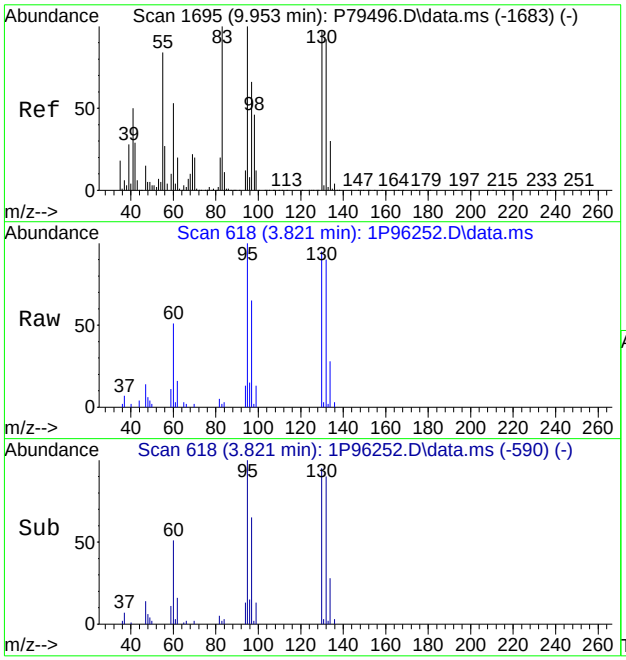


#32
cis-1,2-Dichloroethene
Concen: 6.48 ug/L
RT: 3.015 min Scan# 464
Delta R.T. -0.003 min
Lab File: 1P96252.D
Acq: 12 Dec 2022 5:28 pm

Tgt Ion: 96 Resp: 21396

Ion	Ratio	Lower	Upper
96	100		
61	131.3	101.2	161.2
98	64.9	32.7	92.7
63	47.8	12.5	72.5

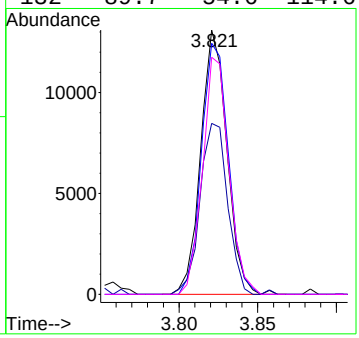




#53
Trichloroethene
Concen: 4.46 ug/L
RT: 3.821 min Scan# 618
Delta R.T. -0.003 min
Lab File: 1P96252.D
Acq: 12 Dec 2022 5:28 pm

Tgt Ion: 95 Resp: 15213

Ion	Ratio	Lower	Upper
95	100		
130	95.0	60.0	120.0
97	64.6	32.2	92.2
132	89.7	54.6	114.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P1658-59\
Data File : 2P96283.D
Acq On : 13 Dec 2022 12:57 pm
Operator : courtnef
Sample : FC1200-6
Misc : MS52987,V2P3658,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 13 19:55:11 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

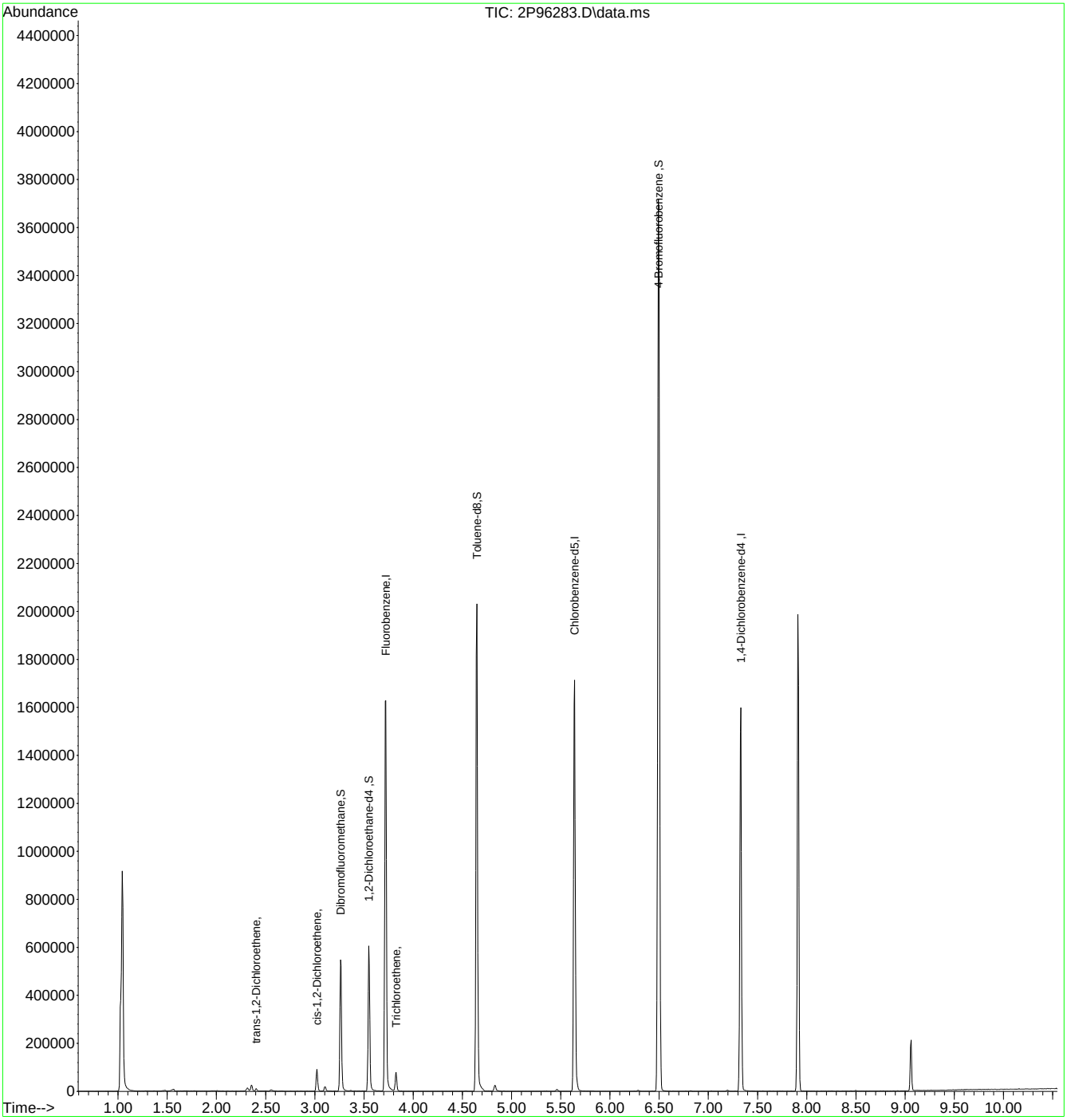
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.721	96	942167	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	667983	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	287751	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.261	113	205101	52.10	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.20%			
49) 1,2-Dichloroethane-d4	3.549	65	272373	48.08	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.16%			
63) Toluene-d8	4.647	98	901987	47.49	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 94.98%			
86) 4-Bromofluorobenzene	6.493	174	228310	51.77	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.54%			
Target Compounds						Qvalue
21) trans-1,2-Dichloroethene	2.403	61	3168	0.61	ug/L	96
32) cis-1,2-Dichloroethene	3.021	96	24132	6.42	ug/L	97
53) Trichloroethene	3.826	95	17134	4.41	ug/L	95

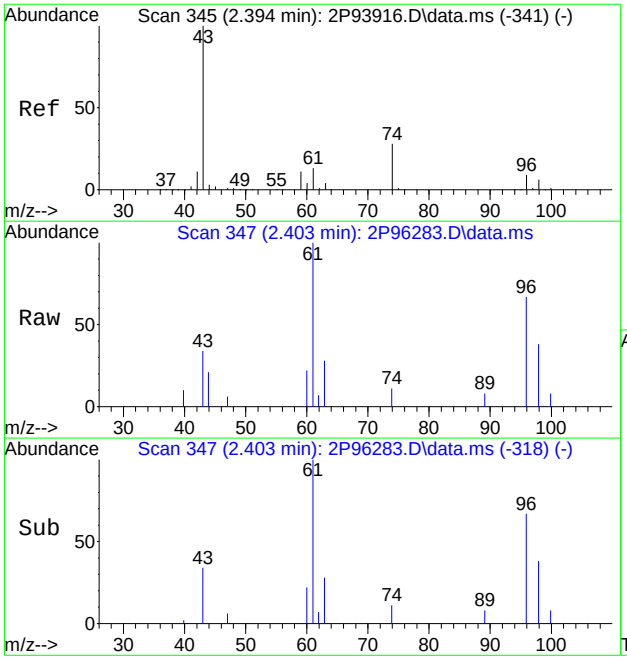
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P1658-59\
Data File : 2P96283.D
Acq On : 13 Dec 2022 12:57 pm
Operator : courtnef
Sample : FC1200-6
Misc : MS52987,V2P3658,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 13 19:55:11 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

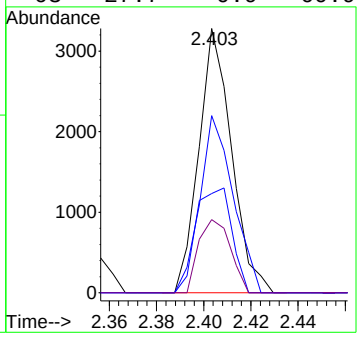


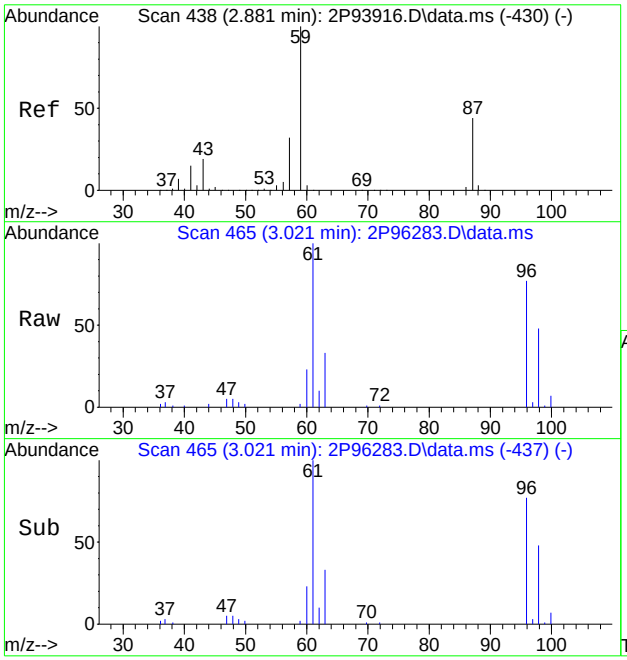


#21
trans-1,2-Dichloroethene
Concen: 0.61 ug/L
RT: 2.403 min Scan# 347
Delta R.T. 0.000 min
Lab File: 2P96283.D
Acq: 13 Dec 2022 12:57 pm

Tgt Ion: 61 Resp: 3168

Ion	Ratio	Lower	Upper
61	100		
96	67.0	35.0	95.0
98	37.5	10.9	70.9
63	27.7	0.9	60.9

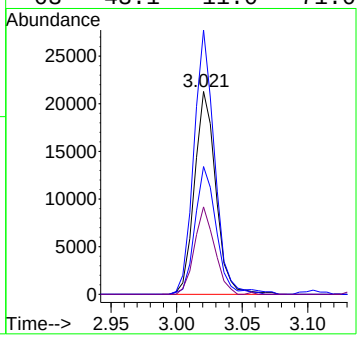


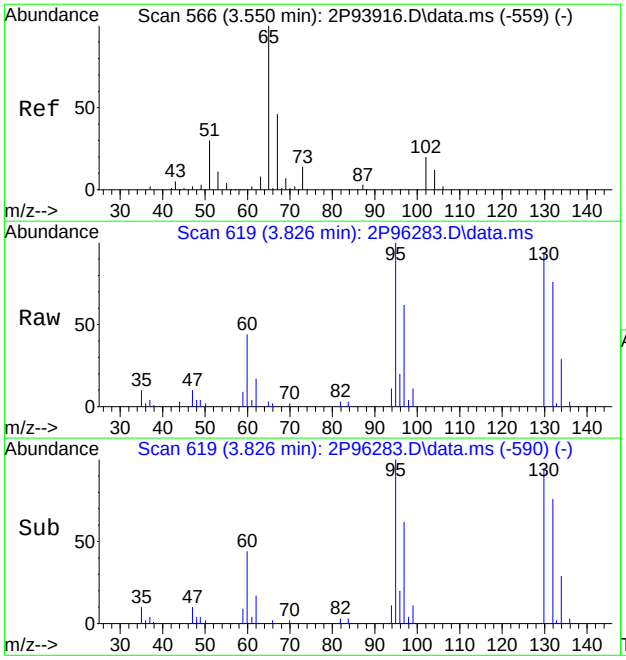


#32
cis-1,2-Dichloroethene
Concen: 6.42 ug/L
RT: 3.021 min Scan# 465
Delta R.T. -0.005 min
Lab File: 2P96283.D
Acq: 13 Dec 2022 12:57 pm

Tgt Ion: 96 Resp: 24132

Ion	Ratio	Lower	Upper
96	100		
61	130.3	95.0	155.0
98	63.0	33.8	93.8
63	43.1	11.0	71.0

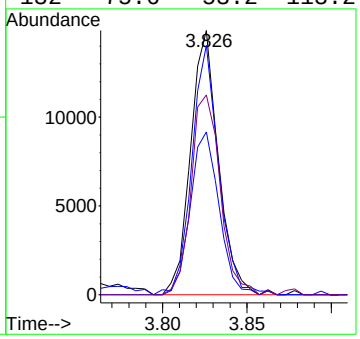




#53
Trichloroethene
Concen: 4.41 ug/L
RT: 3.826 min Scan# 619
Delta R.T. 0.000 min
Lab File: 2P96283.D
Acq: 13 Dec 2022 12:57 pm

Tgt Ion: 95 Resp: 17134

Ion	Ratio	Lower	Upper
95	100		
130	94.3	62.2	122.2
97	61.6	34.9	94.9
132	75.6	53.2	113.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96254.D
Acq On : 12 Dec 2022 6:00 pm
Operator : courtnef
Sample : FC1200-7 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:19:06 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

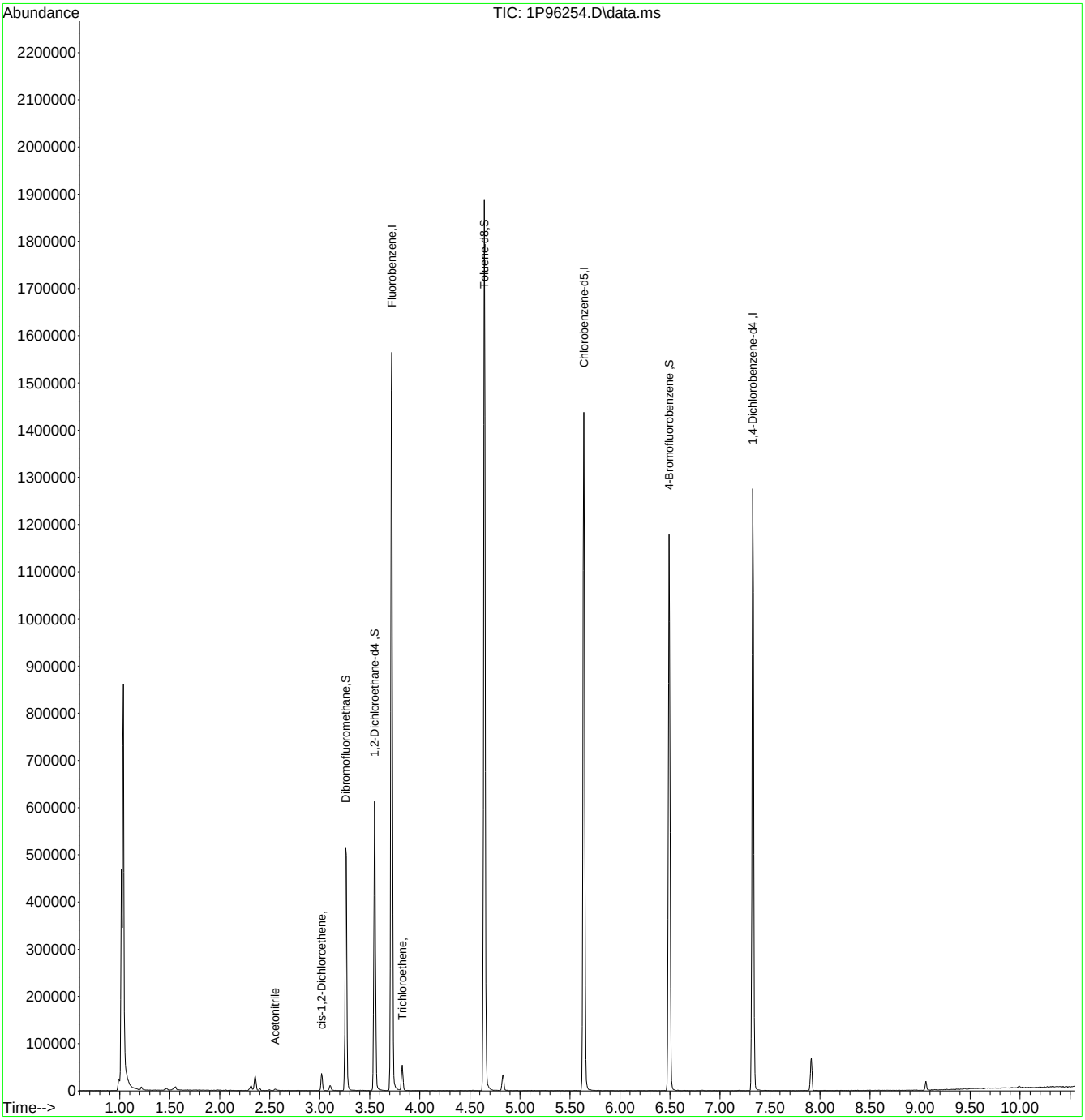
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.719	96	830259	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.639	117	530908	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.328	152	219197	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.259	113	185038	53.45	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.90%			
49) 1,2-Dichloroethane-d4	3.547	65	269662	54.05	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.10%			
63) Toluene-d8	4.645	98	778845	50.00	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.00%			
86) 4-Bromofluorobenzene	6.491	174	179976	53.75	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.50%			
Target Compounds						Qvalue
25) Acetonitrile	2.553	41	2546	3.19	ug/L	89
32) cis-1,2-Dichloroethene	3.018	96	9157	2.83	ug/L	94
53) Trichloroethene	3.824	95	11831	3.54	ug/L	97

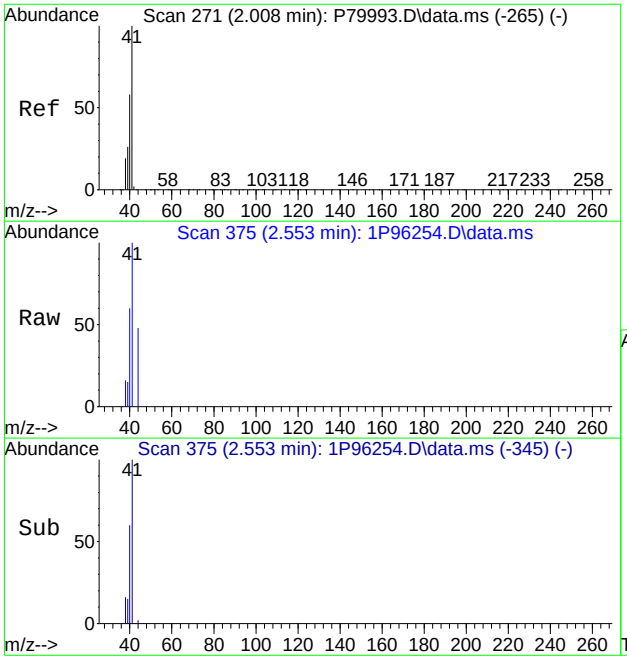
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96254.D
Acq On : 12 Dec 2022 6:00 pm
Operator : courtnef
Sample : FC1200-7 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:19:06 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

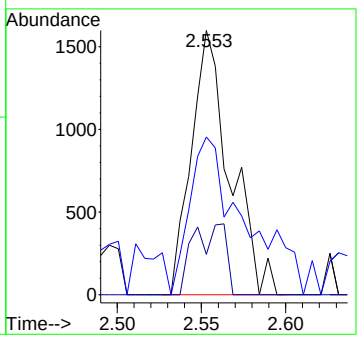


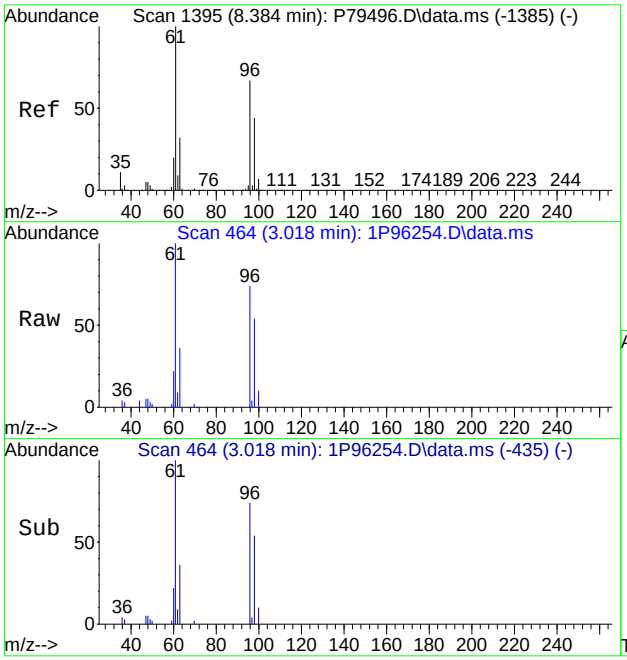


#25
Acetonitrile
Concen: 3.19 ug/L
RT: 2.553 min Scan# 375
Delta R.T. 0.006 min
Lab File: 1P96254.D
Acq: 12 Dec 2022 6:00 pm

Tgt Ion: 41 Resp: 2546

Ion	Ratio	Lower	Upper
41	100		
40	43.8	31.6	71.6
39	15.3	0.4	40.4

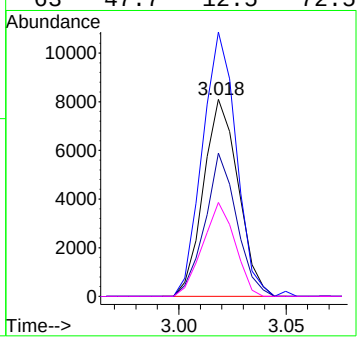


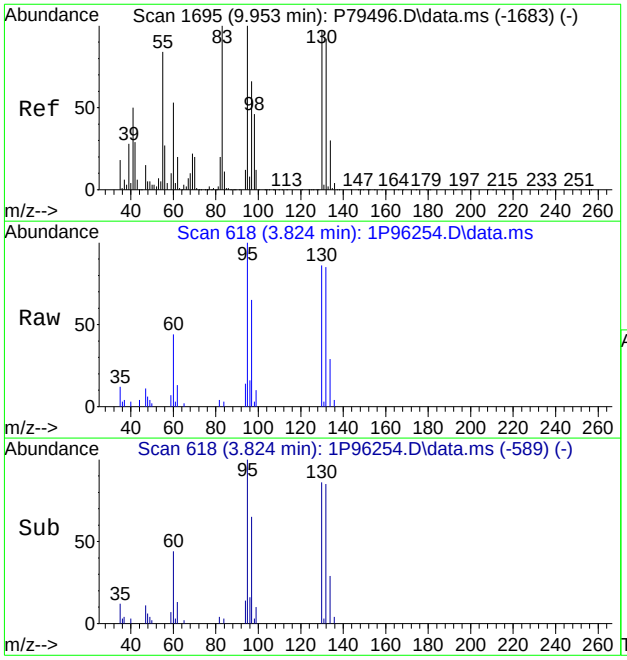


#32
cis-1,2-Dichloroethene
Concen: 2.83 ug/L
RT: 3.018 min Scan# 464
Delta R.T. -0.000 min
Lab File: 1P96254.D
Acq: 12 Dec 2022 6:00 pm

Tgt Ion: 96 Resp: 9157

Ion	Ratio	Lower	Upper
96	100		
61	134.3	101.2	161.2
98	72.7	32.7	92.7
63	47.7	12.5	72.5

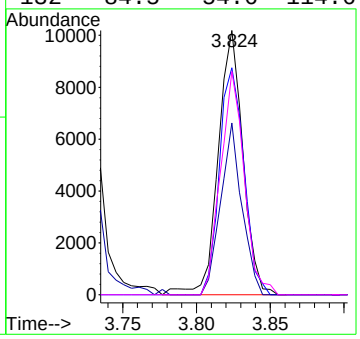




#53
Trichloroethene
Concen: 3.54 ug/L
RT: 3.824 min Scan# 618
Delta R.T. -0.000 min
Lab File: 1P96254.D
Acq: 12 Dec 2022 6:00 pm

Tgt Ion: 95 Resp: 11831

Ion	Ratio	Lower	Upper
95	100		
130	85.8	60.0	120.0
97	65.0	32.2	92.2
132	84.5	54.6	114.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96256.D
Acq On : 12 Dec 2022 6:32 pm
Operator : courtnef
Sample : FC1200-8 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:19:40 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

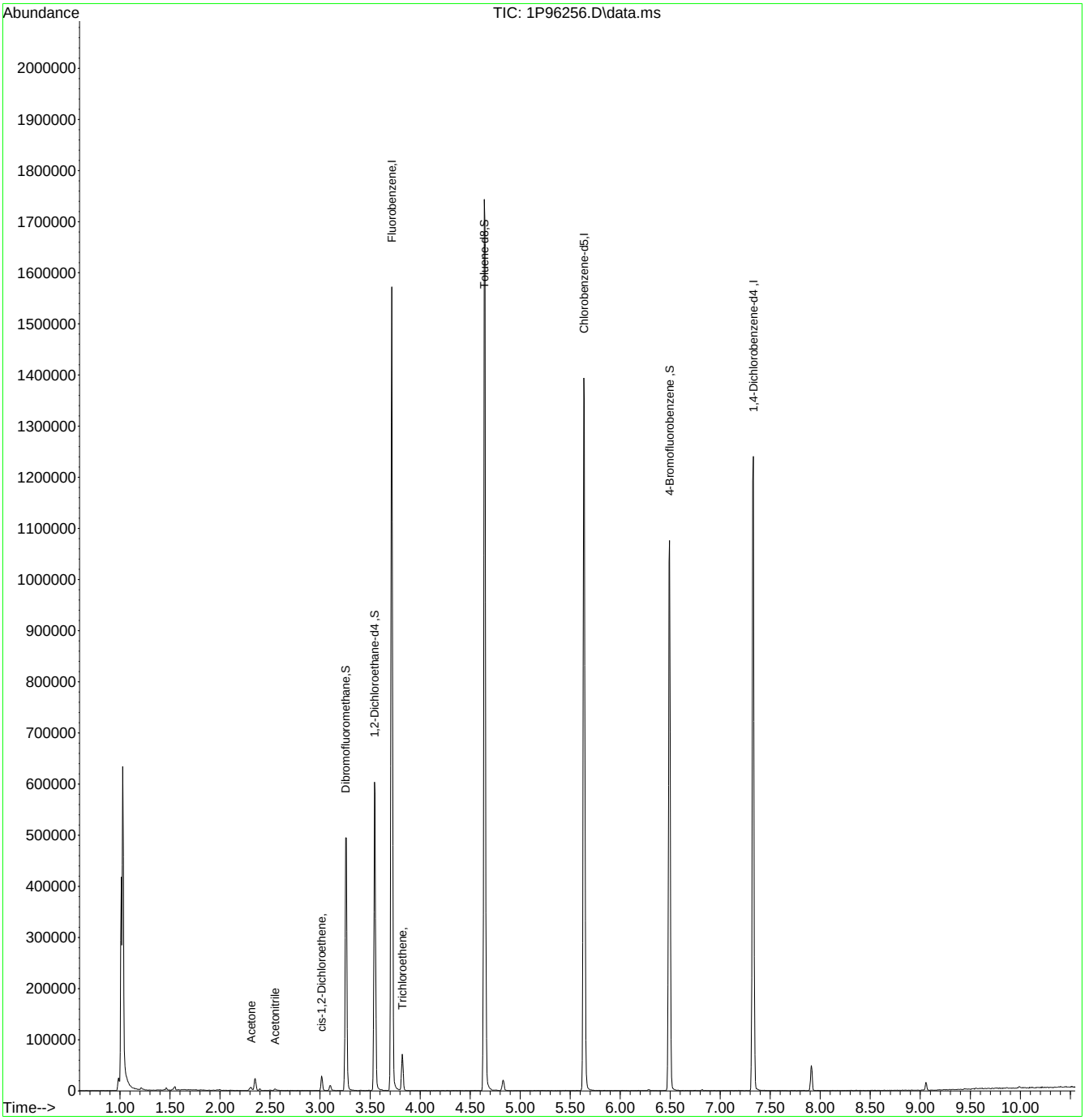
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.717	96	811263	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	522559	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.331	152	216792	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.256	113	181648	53.70	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.40%			
49) 1,2-Dichloroethane-d4	3.544	65	267341	54.84	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.68%			
63) Toluene-d8	4.642	98	760598	49.61	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.22%			
86) 4-Bromofluorobenzene	6.494	174	175044	52.86	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.72%			
Target Compounds						Qvalue
19) Acetone	2.310	43	5164	2.34	ug/L	91
25) Acetonitrile	2.550	41	2743	3.52	ug/L	79
32) cis-1,2-Dichloroethene	3.016	96	7214	2.28	ug/L	94
53) Trichloroethene	3.821	95	15297	4.69	ug/L	94

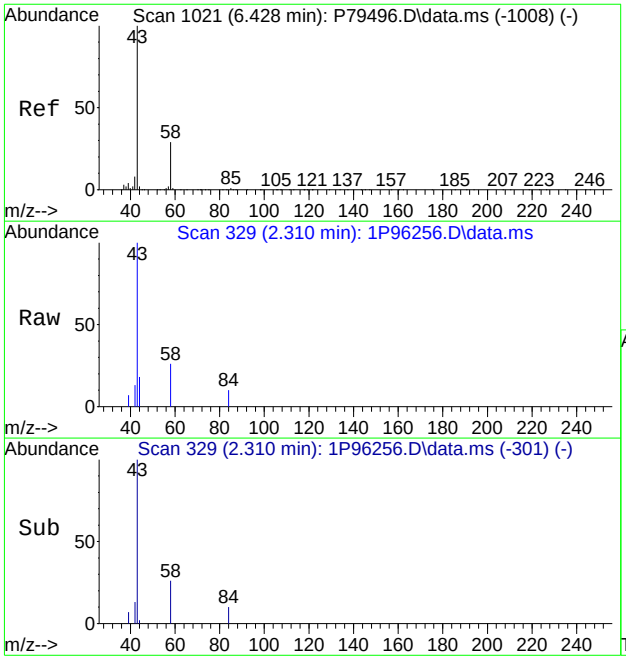
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96256.D
Acq On : 12 Dec 2022 6:32 pm
Operator : courtnef
Sample : FC1200-8 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:19:40 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

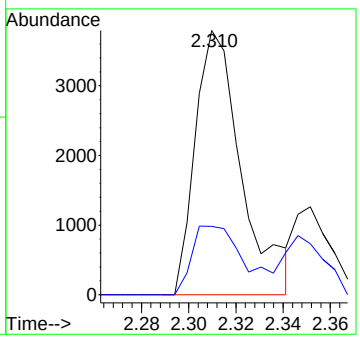


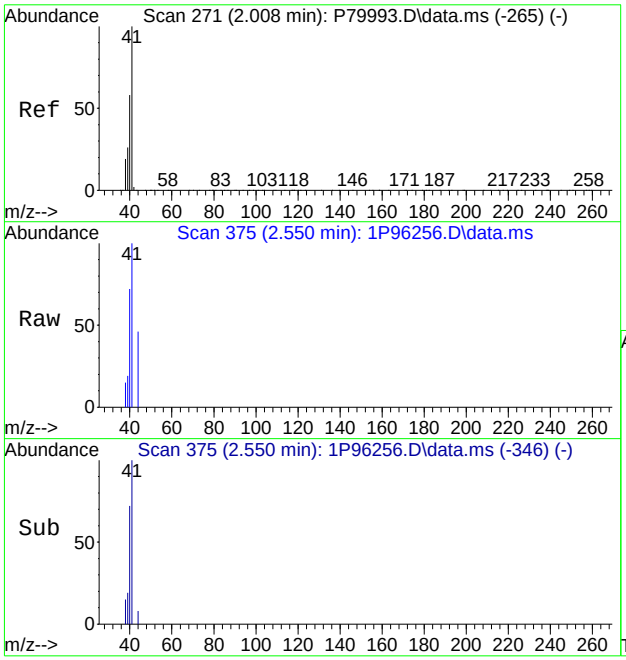


#19
Acetone
Concen: 2.34 ug/L
RT: 2.310 min Scan# 329
Delta R.T. -0.002 min
Lab File: 1P96256.D
Acq: 12 Dec 2022 6:32 pm

Tgt Ion: 43 Resp: 5164

Ion	Ratio	Lower	Upper
43	100		
58	25.8	0.6	60.6

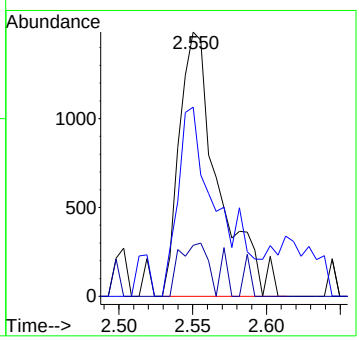


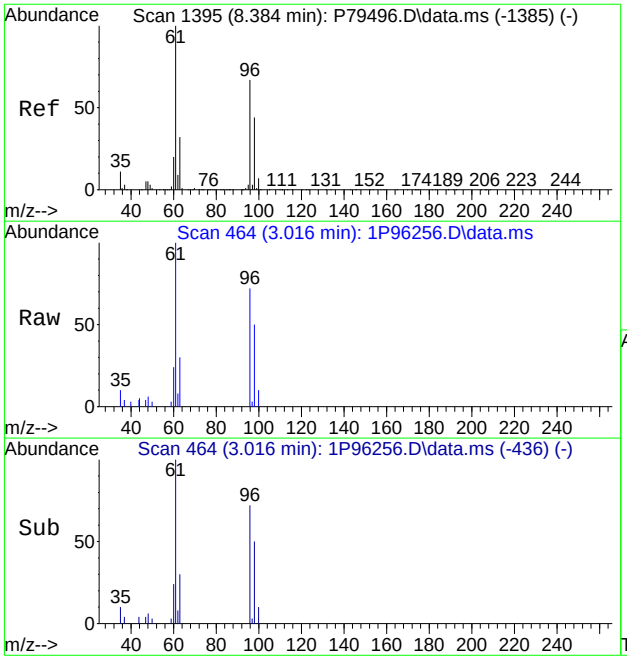


#25
Acetonitrile
Concen: 3.52 ug/L
RT: 2.550 min Scan# 375
Delta R.T. 0.003 min
Lab File: 1P96256.D
Acq: 12 Dec 2022 6:32 pm

Tgt Ion: 41 Resp: 2743

Ion	Ratio	Lower	Upper
41	100		
40	71.5	31.6	71.6
39	19.3	0.4	40.4

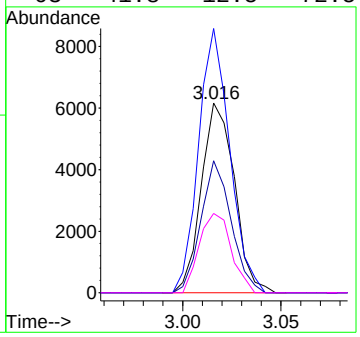


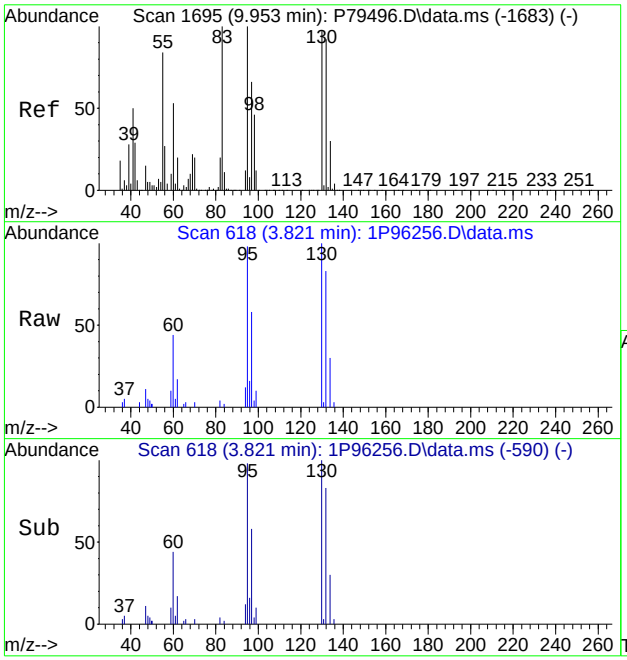


#32
cis-1,2-Dichloroethene
Concen: 2.28 ug/L
RT: 3.016 min Scan# 464
Delta R.T. -0.003 min
Lab File: 1P96256.D
Acq: 12 Dec 2022 6:32 pm

Tgt Ion: 96 Resp: 7214

Ion	Ratio	Lower	Upper
96	100		
61	139.4	101.2	161.2
98	69.6	32.7	92.7
63	41.8	12.5	72.5

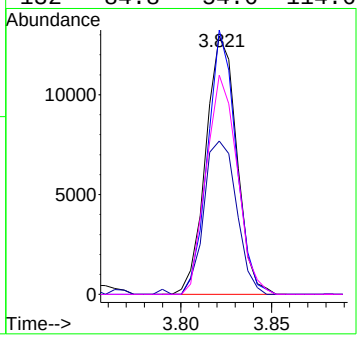




#53
Trichloroethene
Concen: 4.69 ug/L
RT: 3.821 min Scan# 618
Delta R.T. -0.003 min
Lab File: 1P96256.D
Acq: 12 Dec 2022 6:32 pm

Tgt Ion: 95 Resp: 15297

Ion	Ratio	Lower	Upper
95	100		
130	102.3	60.0	120.0
97	59.3	32.2	92.2
132	84.8	54.6	114.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96258.D
Acq On : 12 Dec 2022 7:04 pm
Operator : courtnef
Sample : FC1200-9 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:20:15 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

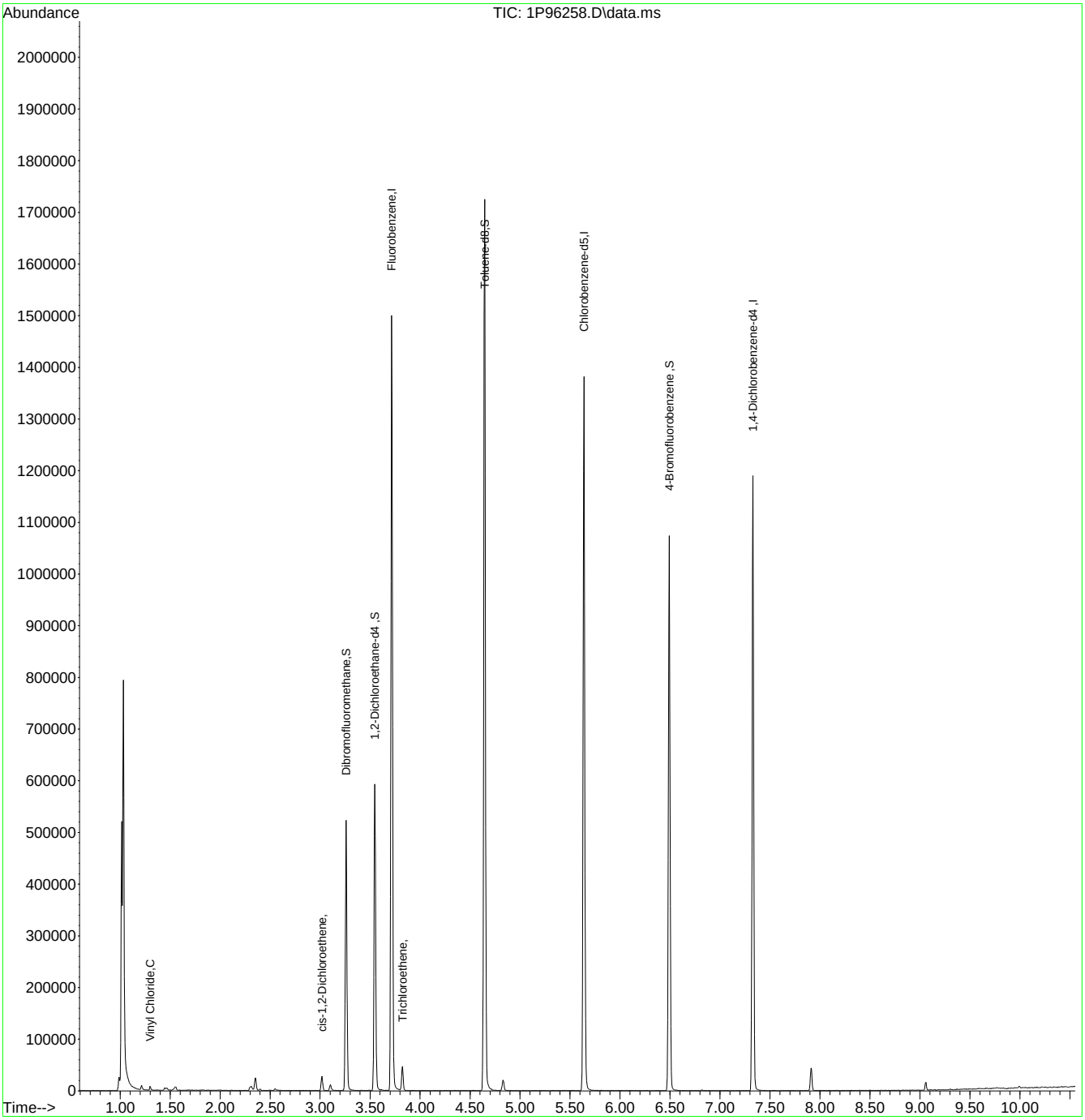
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.715	96	782114	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.640	117	502777	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.329	152	203416	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.260	113	178184	54.63	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.26%			
49) 1,2-Dichloroethane-d4	3.548	65	257015	54.68	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.36%			
63) Toluene-d8	4.646	98	731465	49.58	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.16%			
86) 4-Bromofluorobenzene	6.492	174	169804	54.65	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.30%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.299	62	4035	1.17	ug/L	96
32) cis-1,2-Dichloroethene	3.019	96	7150	2.35	ug/L	98
53) Trichloroethene	3.825	95	10222	3.25	ug/L	94

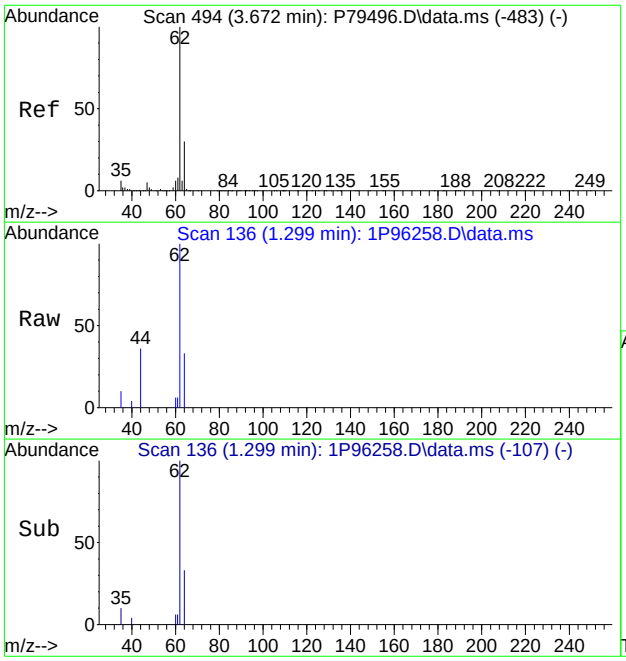
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96258.D
Acq On : 12 Dec 2022 7:04 pm
Operator : courtnef
Sample : FC1200-9 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:20:15 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

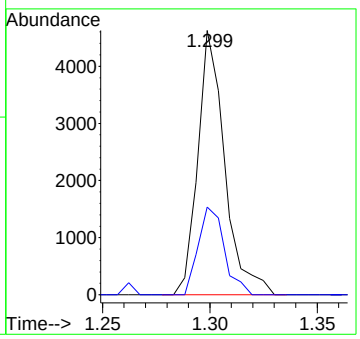


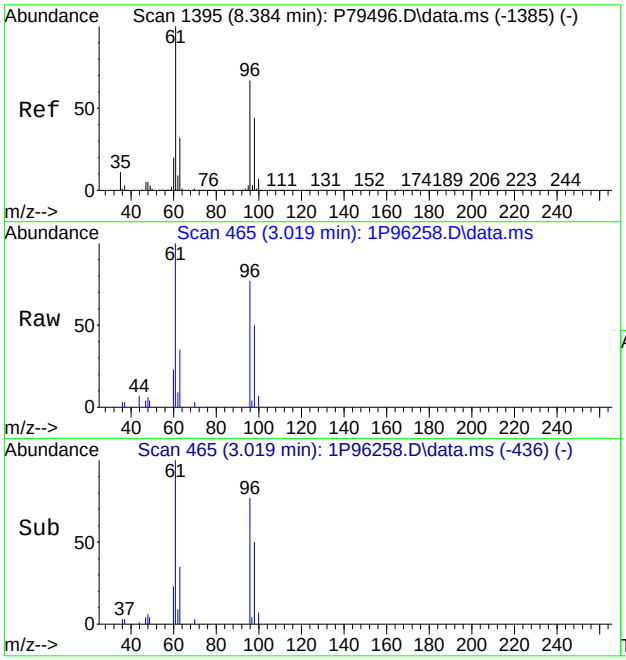


#5
Vinyl Chloride
Concen: 1.17 ug/L
RT: 1.299 min Scan# 136
Delta R.T. 0.001 min
Lab File: 1P96258.D
Acq: 12 Dec 2022 7:04 pm

Tgt Ion: 62 Resp: 4035

Ion	Ratio	Lower	Upper
62	100		
64	33.2	1.0	61.0

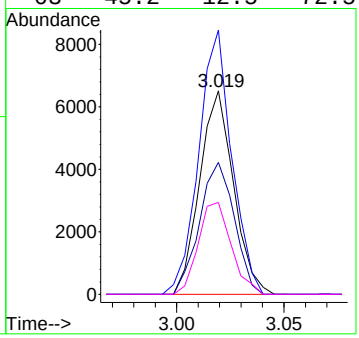


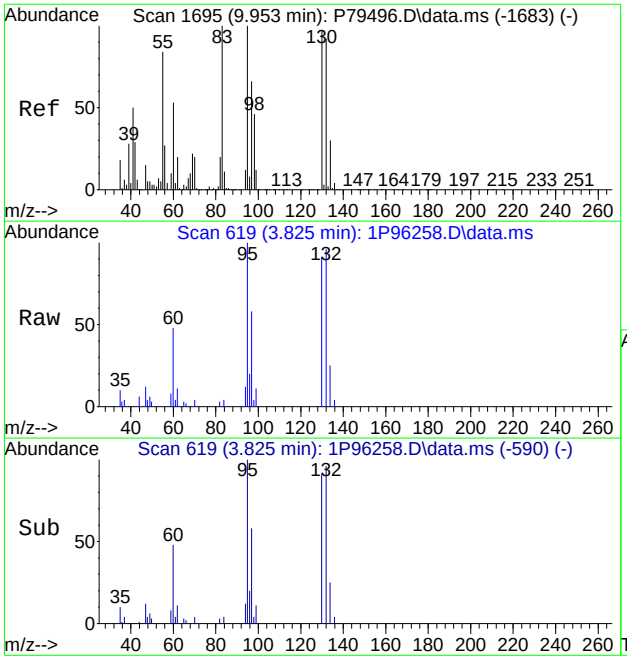


#32
cis-1,2-Dichloroethene
Concen: 2.35 ug/L
RT: 3.019 min Scan# 465
Delta R.T. 0.001 min
Lab File: 1P96258.D
Acq: 12 Dec 2022 7:04 pm

Tgt Ion: 96 Resp: 7150

Ion	Ratio	Lower	Upper
96	100		
61	130.0	101.2	161.2
98	64.9	32.7	92.7
63	45.2	12.5	72.5

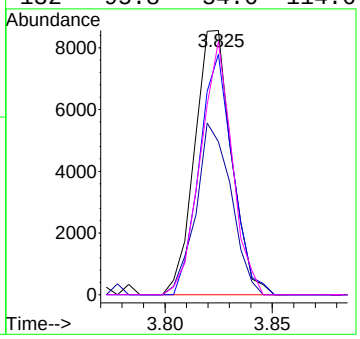




#53
Trichloroethene
Concen: 3.25 ug/L
RT: 3.825 min Scan# 619
Delta R.T. 0.001 min
Lab File: 1P96258.D
Acq: 12 Dec 2022 7:04 pm

Tgt Ion: 95 Resp: 10222

Ion	Ratio	Lower	Upper
95	100		
130	91.0	60.0	120.0
97	57.9	32.2	92.2
132	95.8	54.6	114.6



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/14/22 01:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96260.D
Acq On : 12 Dec 2022 7:35 pm
Operator : courtnef
Sample : FC1200-10 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:20:58 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

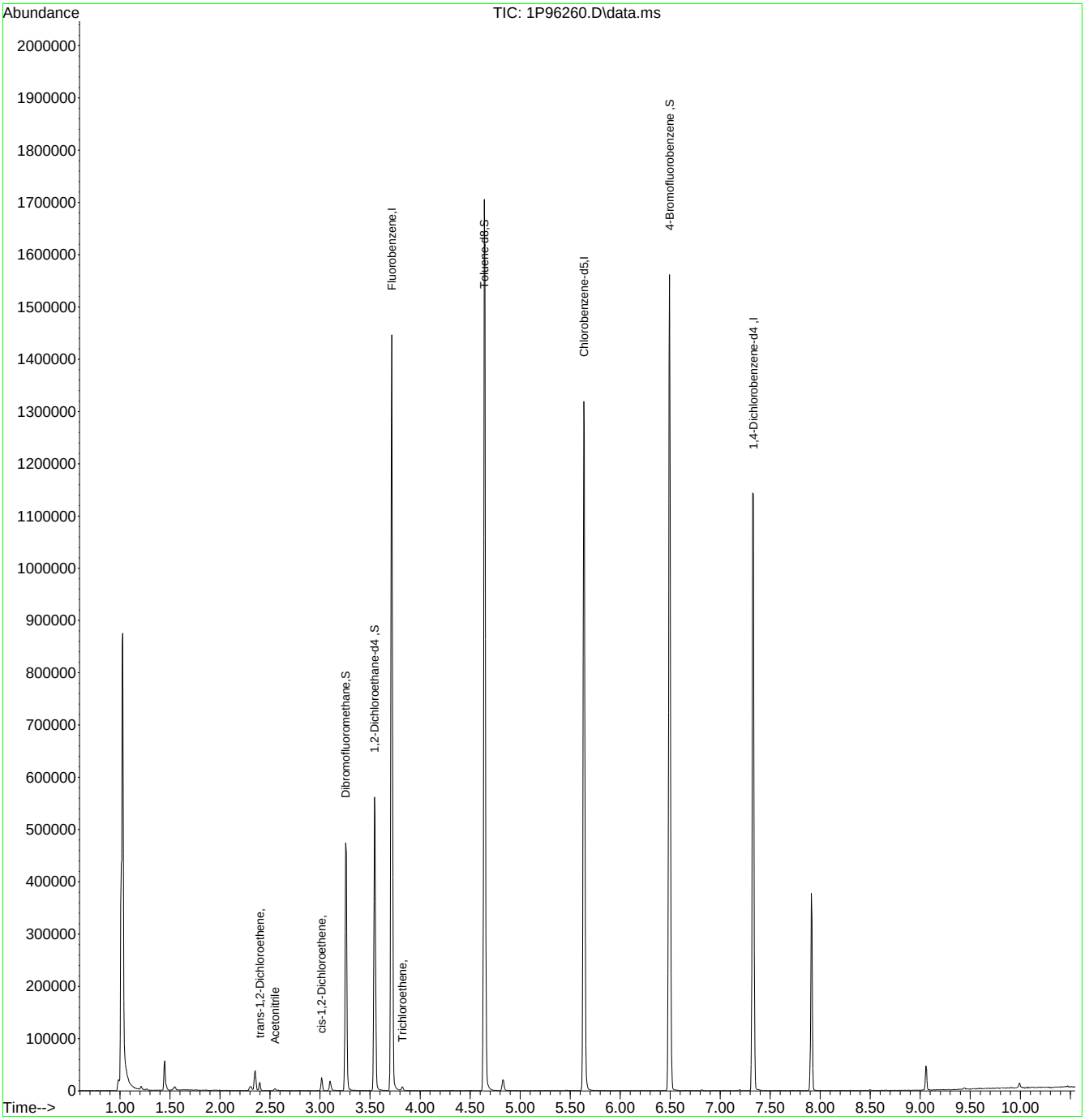
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.717	96	752213	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	499650	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.331	152	207164	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.257	113	172260	54.92	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.84%			
49) 1,2-Dichloroethane-d4	3.544	65	257582	56.98	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 113.96%			
63) Toluene-d8	4.643	98	726708	49.57	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.14%			
86) 4-Bromofluorobenzene	6.494	174	178925	56.54	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 113.08%			
Target Compounds						Qvalue
21) trans-1,2-Dichloroethene	2.399	61	4855	1.18	ug/L	93
25) Acetonitrile	2.551	41	2953	4.09	ug/L	95
32) cis-1,2-Dichloroethene	3.016	96	5765	1.97	ug/L	81
53) Trichloroethene	3.822	95	1702m	0.56	ug/L	

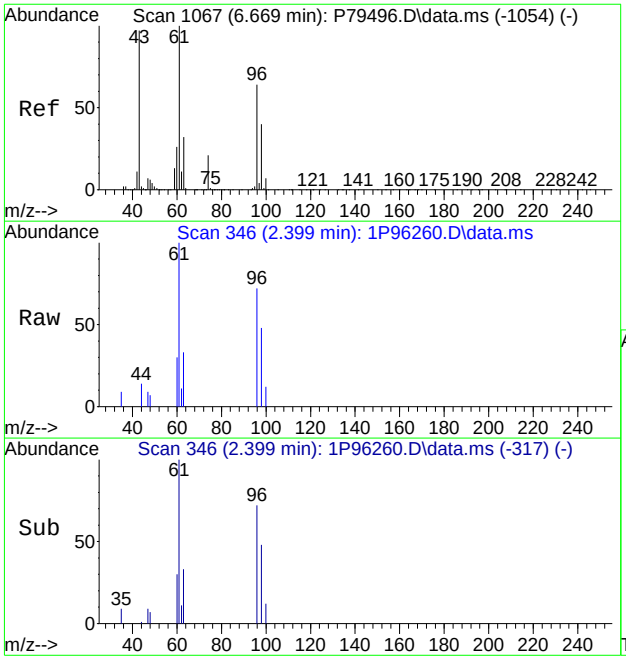
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96260.D
Acq On : 12 Dec 2022 7:35 pm
Operator : courtnef
Sample : FC1200-10 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:20:58 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

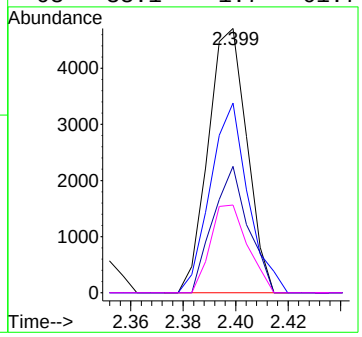


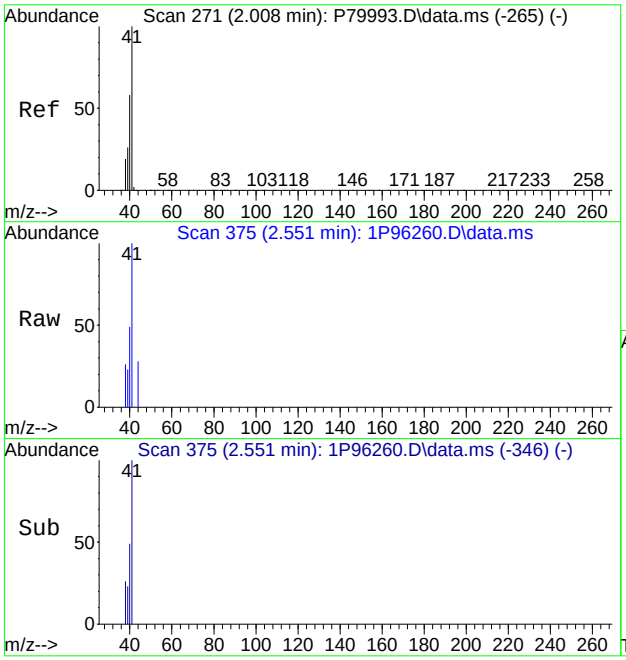


#21
trans-1,2-Dichloroethene
Concen: 1.18 ug/L
RT: 2.399 min Scan# 346
Delta R.T. 0.003 min
Lab File: 1P96260.D
Acq: 12 Dec 2022 7:35 pm

Tgt Ion: 61 Resp: 4855

Ion	Ratio	Lower	Upper
61	100		
96	71.7	36.3	96.3
98	47.8	11.6	71.6
63	33.1	1.7	61.7

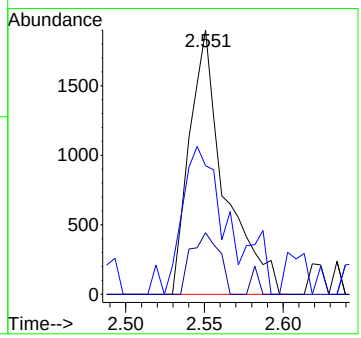


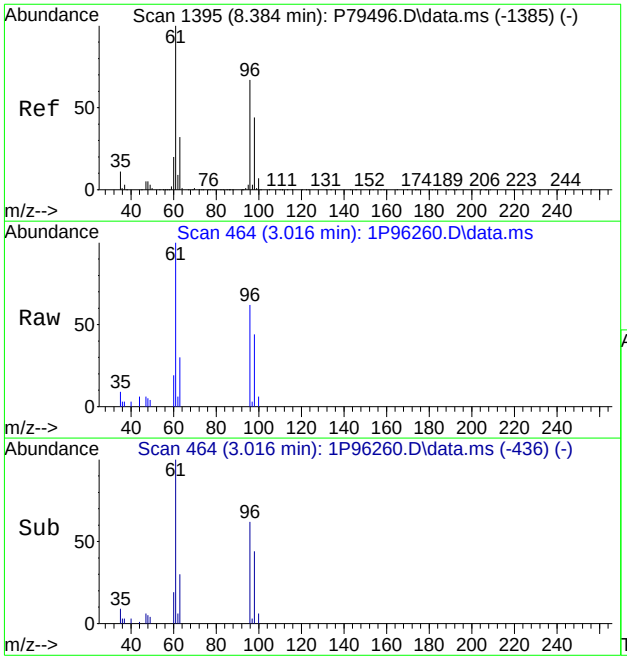


#25
Acetonitrile
Concen: 4.09 ug/L
RT: 2.551 min Scan# 375
Delta R.T. 0.004 min
Lab File: 1P96260.D
Acq: 12 Dec 2022 7:35 pm

Tgt Ion: 41 Resp: 2953

Ion	Ratio	Lower	Upper
41	100		
40	48.7	31.6	71.6
39	23.3	0.4	40.4

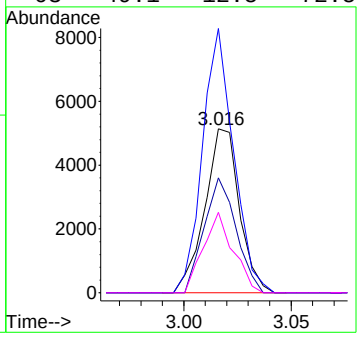


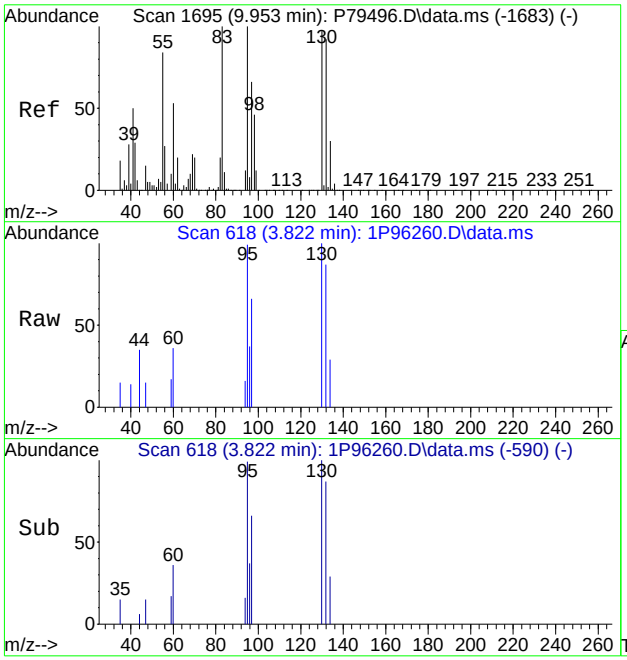


#32
cis-1,2-Dichloroethene
Concen: 1.97 ug/L
RT: 3.016 min Scan# 464
Delta R.T. -0.002 min
Lab File: 1P96260.D
Acq: 12 Dec 2022 7:35 pm

Tgt Ion: 96 Resp: 5765

Ion	Ratio	Lower	Upper
96	100		
61	161.1	101.2	161.2
98	70.1	32.7	92.7
63	49.1	12.5	72.5

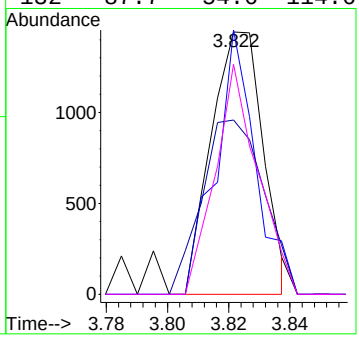




#53
Trichloroethene
Concen: 0.56 ug/L m
RT: 3.822 min Scan# 618
Delta R.T. -0.002 min
Lab File: 1P96260.D
Acq: 12 Dec 2022 7:35 pm

Tgt Ion: 95 Resp: 1702

Ion	Ratio	Lower	Upper
95	100		
130	100.8	60.0	120.0
97	66.5	32.2	92.2
132	87.7	54.6	114.6



Manual Integration Approval Summary

Sample Number: FC1200-10
Lab FileID: 1P96260.D
Injection Time: 12/12/22 19:35

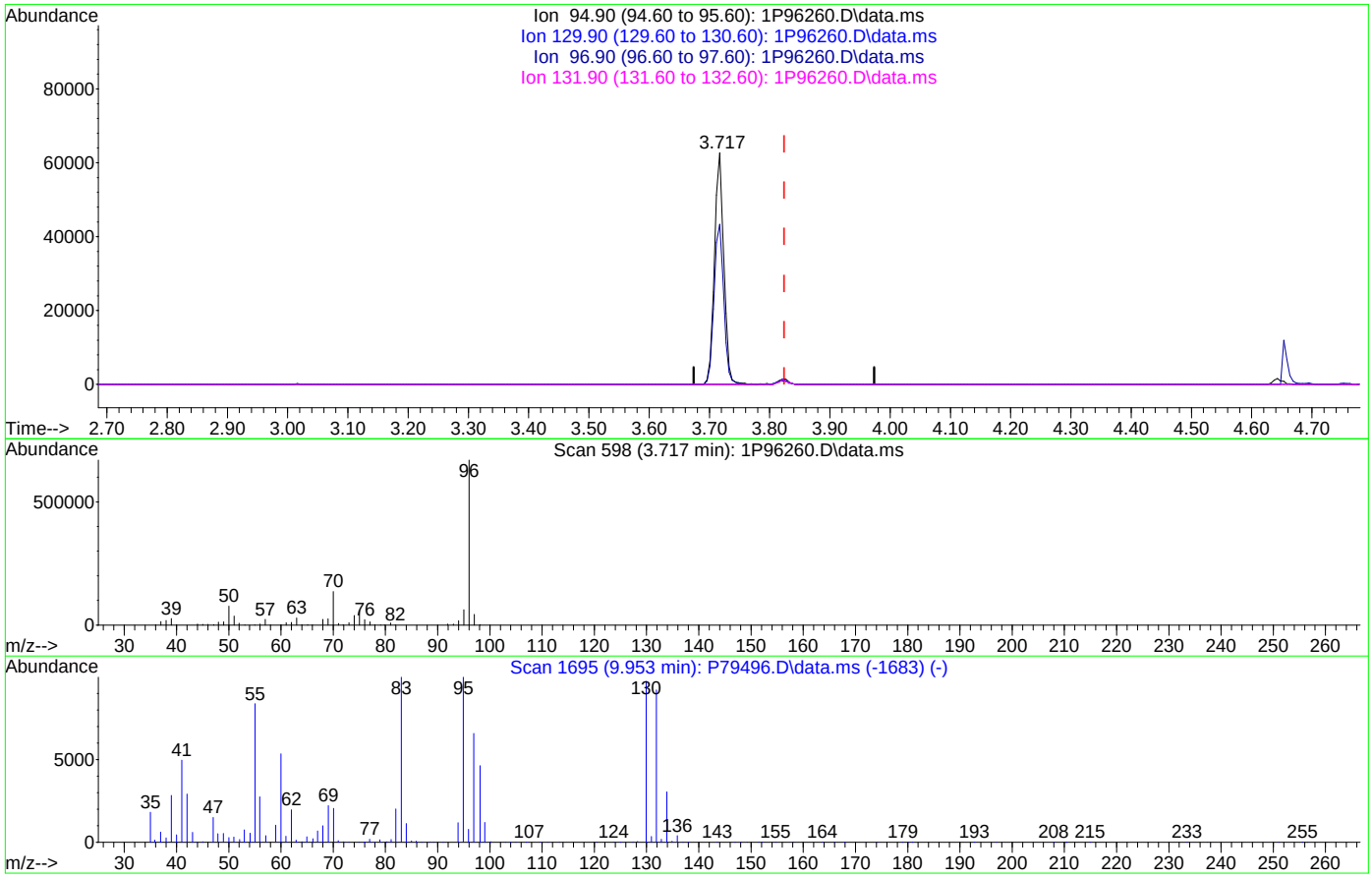
Method: SW846 8260D
Analyst approved: 12/13/22 01:04 Jennifer Fereira
Supervisor approved: 12/14/22 01:32 Jennifer Fereira

Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichloroethylene	79-01-6		3.82	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96260.D
Acq On : 12 Dec 2022 7:35 pm
Operator : courtnef
Sample : FC1200-10 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:06:21 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



TIC: 1P96260.D\data.ms

(53) Trichloroethene ( )

3.717min (-0.107) 22.28ug/L

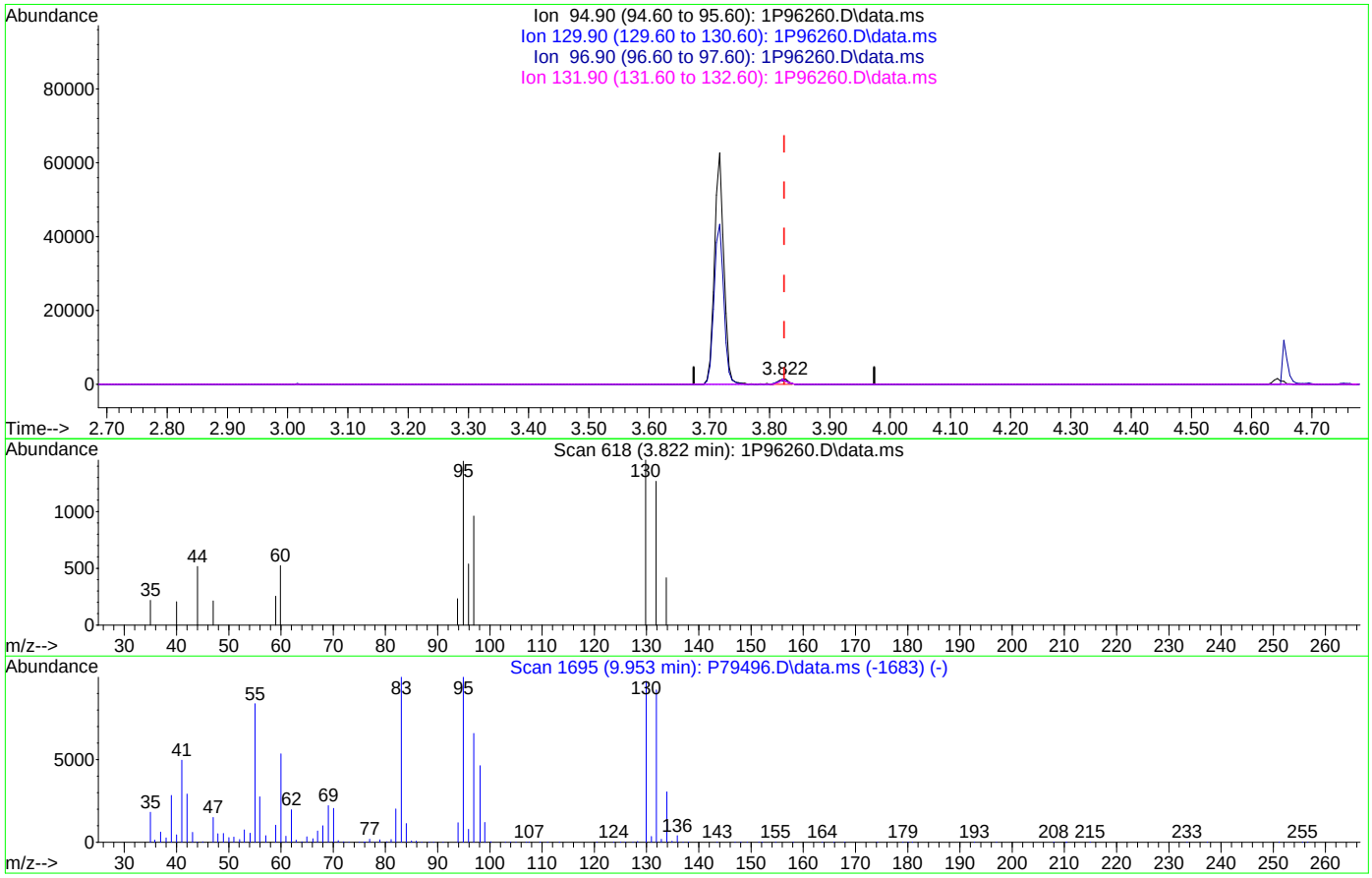
response 67460

Ion	Exp%	Act%
94.90	100	100
129.90	90.00	0.00#
96.90	62.20	69.21
131.90	84.60	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96260.D
Acq On : 12 Dec 2022 7:35 pm
Operator : courtnef
Sample : FC1200-10 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:06:21 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



TIC: 1P96260.D\data.ms

(53) Trichloroethene ( )

3.822min (-0.002) 0.56ug/L m

response 1702

Ion	Exp%	Act%
94.90	100	100
129.90	90.00	100.76
96.90	62.20	66.46
131.90	84.60	87.73

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753624.d
Acq On : 15 Dec 2022 12:53 pm
Operator : kylieg
Sample : FC1200-11 Inst : MSVOA16
Misc : MS52987,VI2788,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:11:10 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

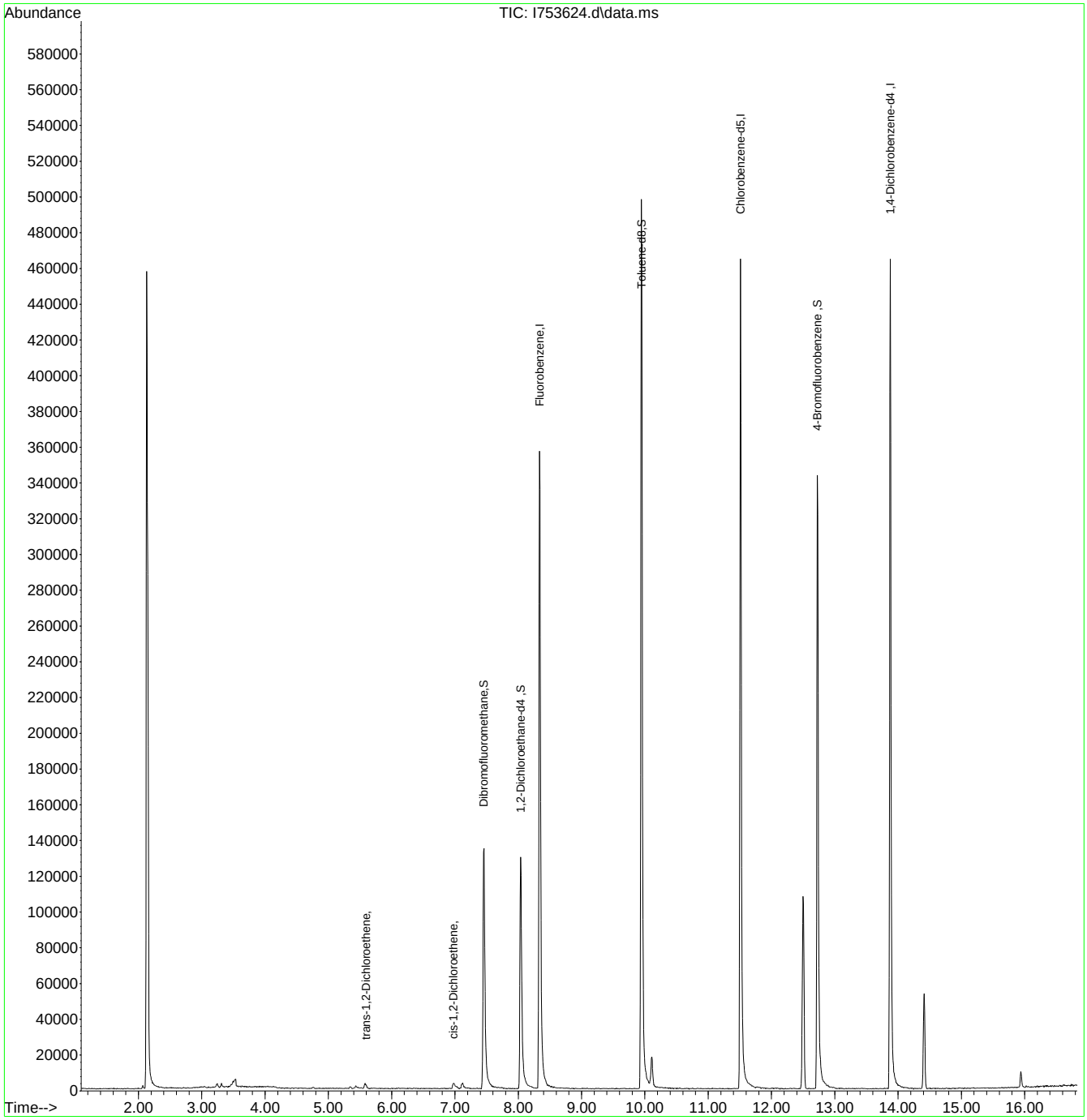
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.335	96	302601	50.00	ug/L	0.00
62) Chlorobenzene-d5	11.512	117	243259	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.877	152	119479	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.452	113	88312	54.68	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.36%			
49) 1,2-Dichloroethane-d4	8.037	65	98639	52.92	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.84%			
63) Toluene-d8	9.945	98	309358	45.10	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 90.20%			
86) 4-Bromofluorobenzene	12.725	174	100888	51.31	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.62%			
Target Compounds						Qvalue
21) trans-1,2-Dichloroethene	5.592	61	2276	1.26	ug/L	83
32) cis-1,2-Dichloroethene	6.976	96	2285	2.04	ug/L	86

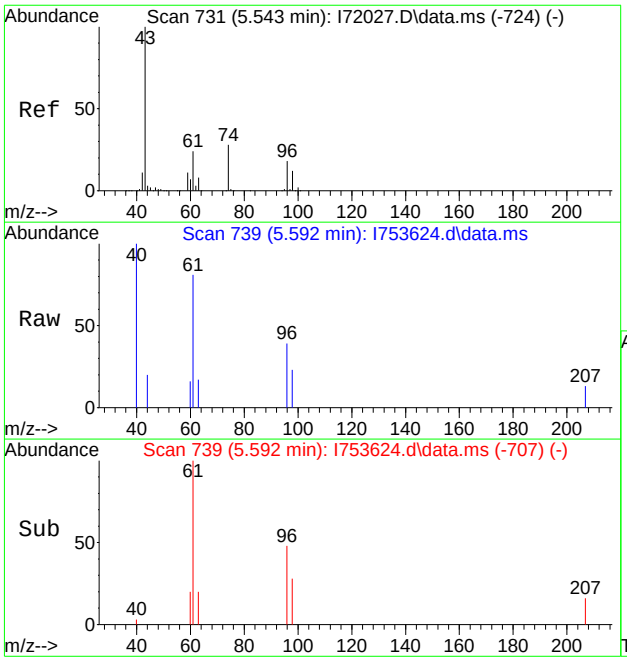
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753624.d
Acq On : 15 Dec 2022 12:53 pm
Operator : kylieg
Sample : FC1200-11 Inst : MSVOA16
Misc : MS52987,VI2788,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:11:10 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

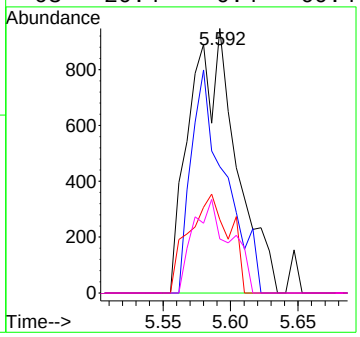


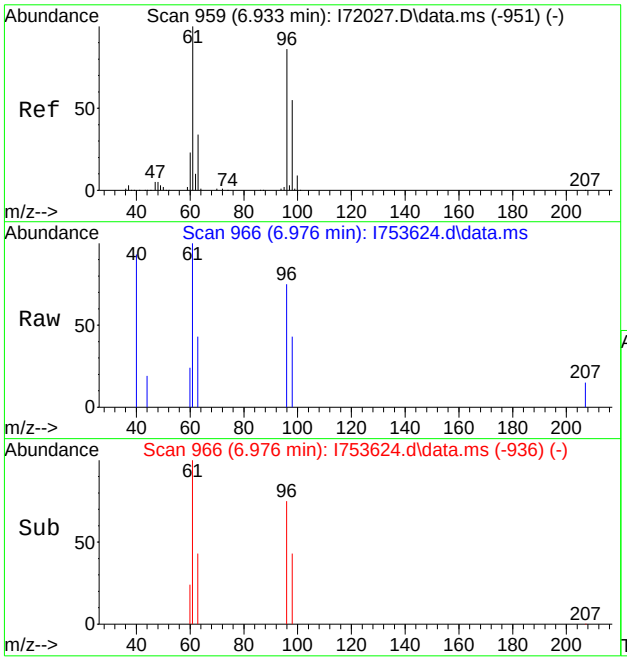


#21
trans-1,2-Dichloroethene
Concen: 1.26 ug/L
RT: 5.592 min Scan# 739
Delta R.T. 0.043 min
Lab File: I753624.d
Acq: 15 Dec 2022 12:53 pm

Tgt Ion: 61 Resp: 2276

Ion	Ratio	Lower	Upper
61	100		
96	47.7	29.2	89.2
98	27.7	8.1	68.1
63	20.4	0.4	60.4

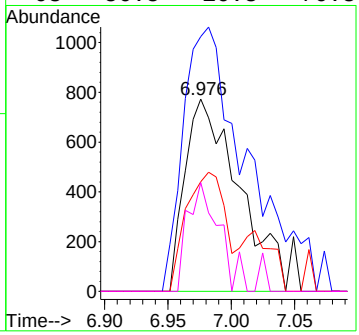




#32
cis-1,2-Dichloroethene
Concen: 2.04 ug/L
RT: 6.976 min Scan# 966
Delta R.T. 0.031 min
Lab File: I753624.d
Acq: 15 Dec 2022 12:53 pm

Tgt Ion: 96 Resp: 2285

Ion	Ratio	Lower	Upper
96	100		
61	132.5	121.3	181.3
98	57.1	37.2	97.2
63	56.5	16.8	76.8



Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson 12/16/22 16:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P1658-59
Data File : 2P96293.D
Acq On : 13 Dec 2022 3:37 pm
Operator : courtnef
Sample : FC1200-11
Misc : MS52987,V2P3658,,,,,
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Dec 13 20:03:37 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

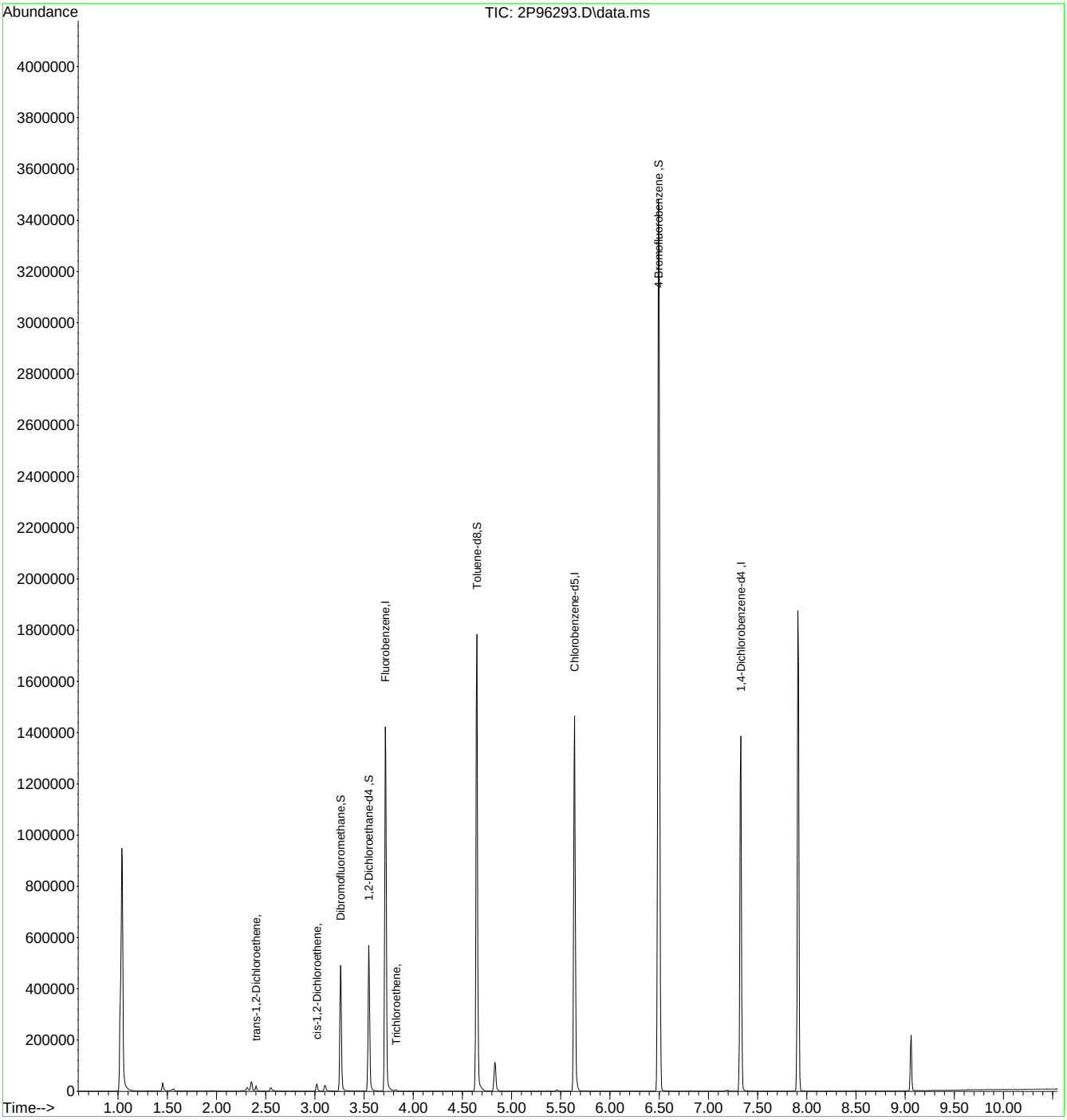
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		3.716	96	780039	50.00	ug/L	0.00
62) Chlorobenzene-d5		5.640	117	541147	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4		7.330	152	238419	50.00	ug/L	0.00
System Monitoring Compounds							
39) Dibromofluoromethane		3.261	113	174797	53.63	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	107.26%		
49) 1,2-Dichloroethane-d4		3.548	65	252557	53.85	ug/L	0.00
Spiked Amount	50.000	Range 79 - 125		Recovery =	107.70%		
63) Toluene-d8		4.647	98	747109	48.55	ug/L	0.00
Spiked Amount	50.000	Range 85 - 112		Recovery =	97.10%		
86) 4-Bromofluorobenzene		6.493	174	191531	52.41	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	104.82%		
Target Compounds							Qvalue
21) trans-1,2-Dichloroethene		2.403	61	6197	1.44	ug/L	92
32) cis-1,2-Dichloroethene		3.020	96	7352	2.36	ug/L	94
53) Trichloroethene		3.825	95	1176m	0.37	ug/L	

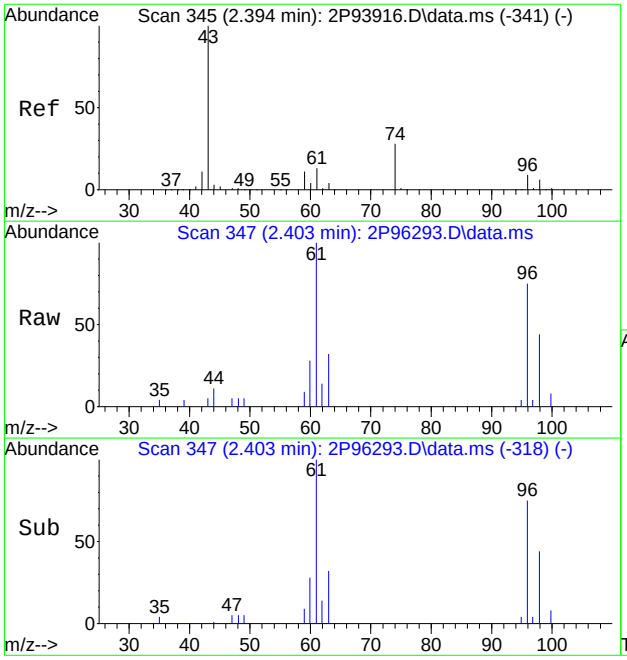
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P1658-59\
Data File : 2P96293.D
Acq On : 13 Dec 2022 3:37 pm
Operator : courtnef
Sample : FC1200-11
Misc : MS52987,V2P3658,,,,,
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Dec 13 20:03:37 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

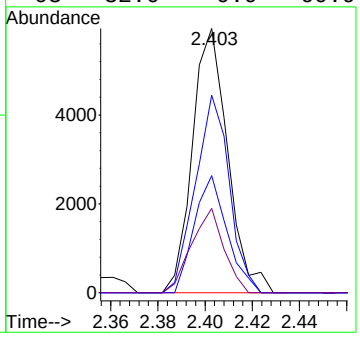


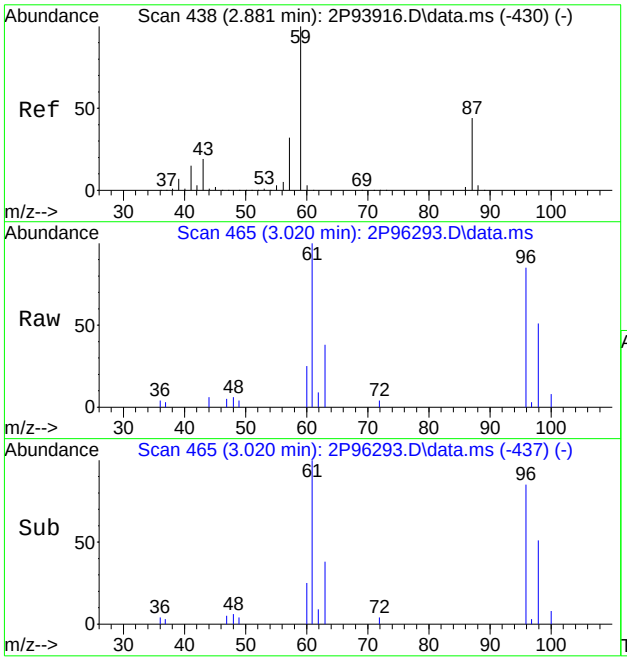


#21
trans-1,2-Dichloroethene
Concen: 1.44 ug/L
RT: 2.403 min Scan# 347
Delta R.T. -0.000 min
Lab File: 2P96293.D
Acq: 13 Dec 2022 3:37 pm

Tgt Ion: 61 Resp: 6197

Ion	Ratio	Lower	Upper
61	100		
96	74.7	35.0	95.0
98	44.4	10.9	70.9
63	32.0	0.9	60.9

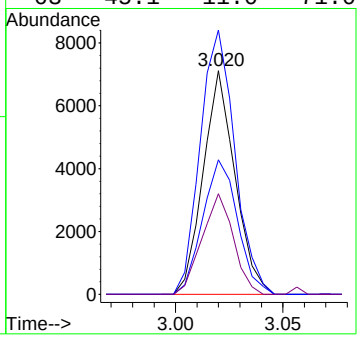


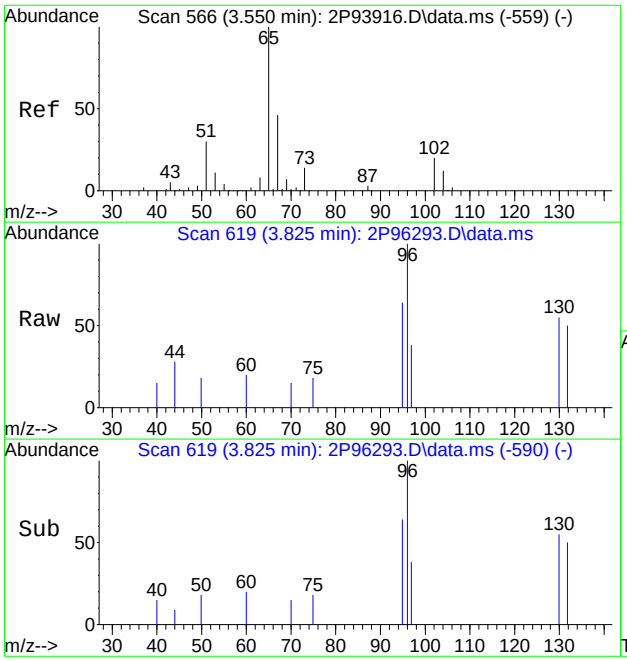


#32
cis-1,2-Dichloroethene
Concen: 2.36 ug/L
RT: 3.020 min Scan# 465
Delta R.T. -0.005 min
Lab File: 2P96293.D
Acq: 13 Dec 2022 3:37 pm

Tgt Ion: 96 Resp: 7352

Ion	Ratio	Lower	Upper
96	100		
61	118.3	95.0	155.0
98	60.2	33.8	93.8
63	45.1	11.0	71.0

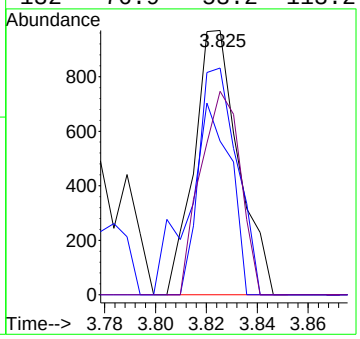




#53
Trichloroethene
Concen: 0.37 ug/L m
RT: 3.825 min Scan# 619
Delta R.T. -0.000 min
Lab File: 2P96293.D
Acq: 13 Dec 2022 3:37 pm

Tgt Ion: 95 Resp: 1176

Ion	Ratio	Lower	Upper
95	100		
130	85.8	62.2	122.2
97	58.1	34.9	94.9
132	76.9	53.2	113.2



Manual Integration Approval Summary

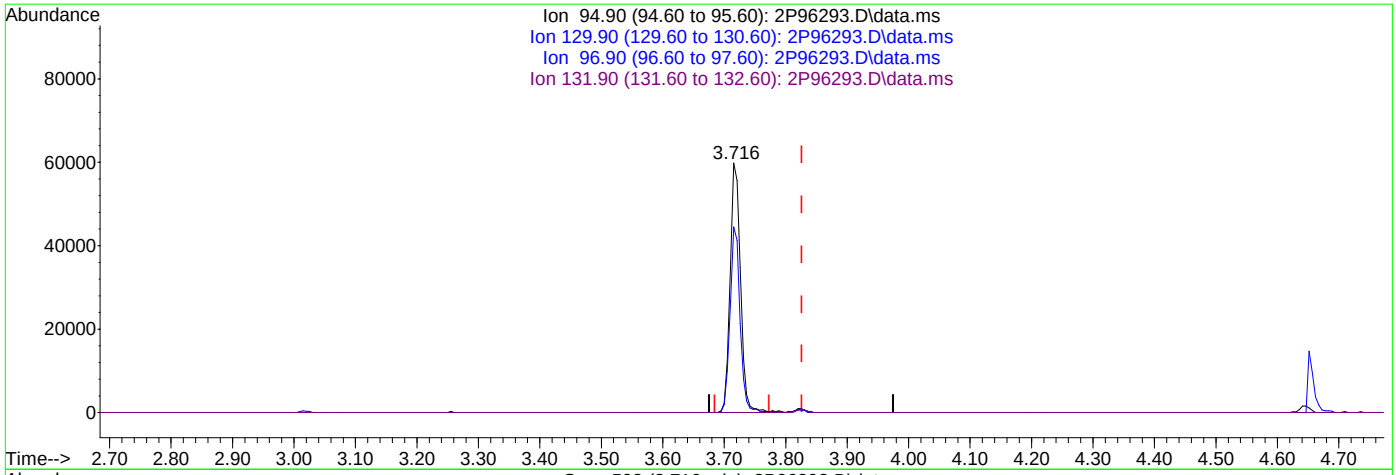
Sample Number: FC1200-11
Lab FileID: 2P96293.D
Injection Time: 12/13/22 15:37
Method: SW846 8260D
Analyst approved: 12/13/22 22:41 Celine Celis
Supervisor approved: 12/16/22 16:03 Karen Watson

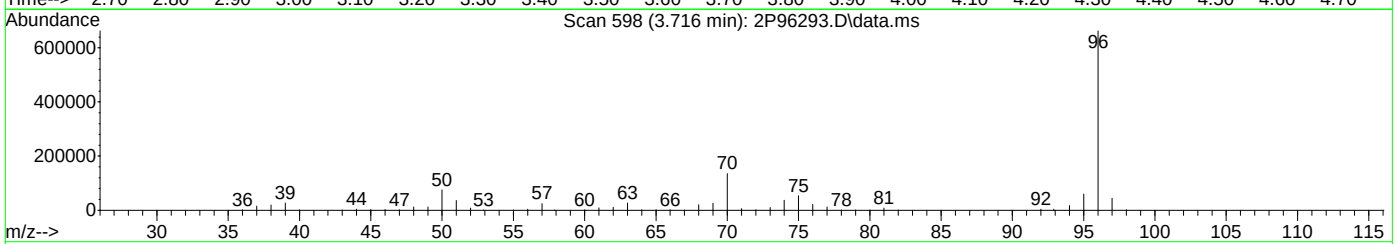
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichloroethylene	79-01-6		3.83	Missed peak

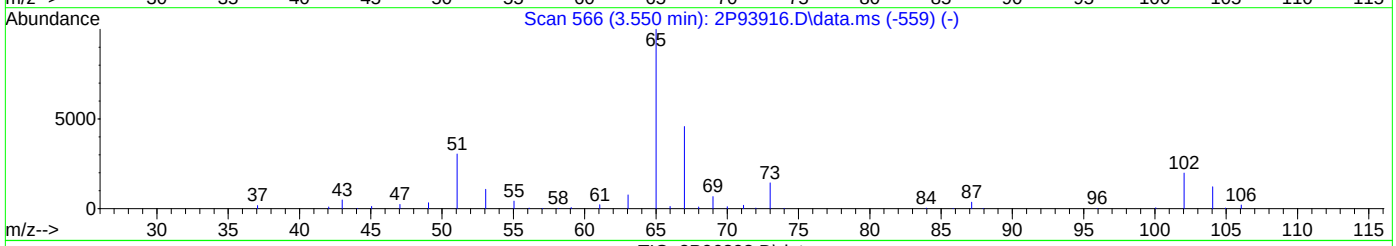
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P1658-59\
Data File : 2P96293.D
Acq On : 13 Dec 2022 3:37 pm
Operator : courtnef
Sample : FC1200-11
Misc : MS52987,V2P3658,,,,,
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Dec 13 19:43:54 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration







TIC: 2P96293.D\data.ms

(53) Trichloroethene ( )

3.716min (-0.110) 21.79ug/L

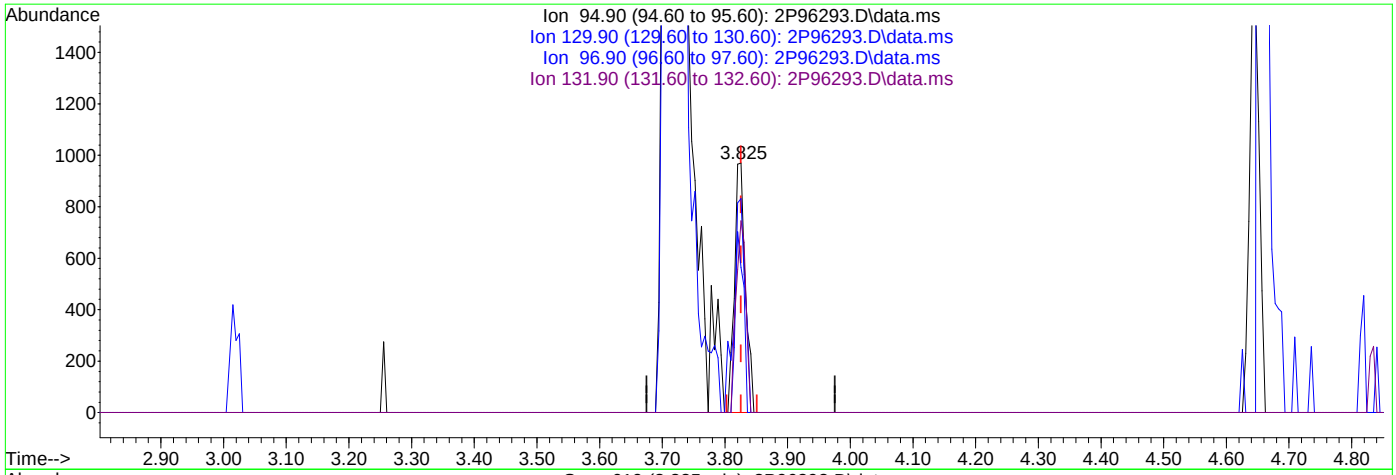
response 70182

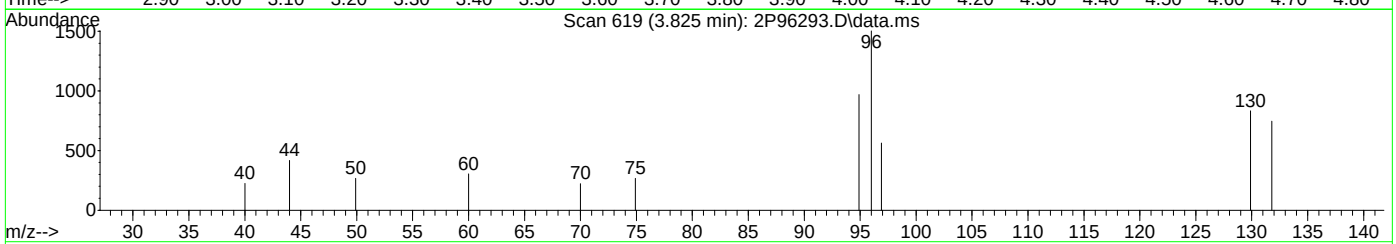
Ion	Exp%	Act%
94.90	100	100
129.90	92.20	0.00#
96.90	64.90	74.35
131.90	83.20	0.00#

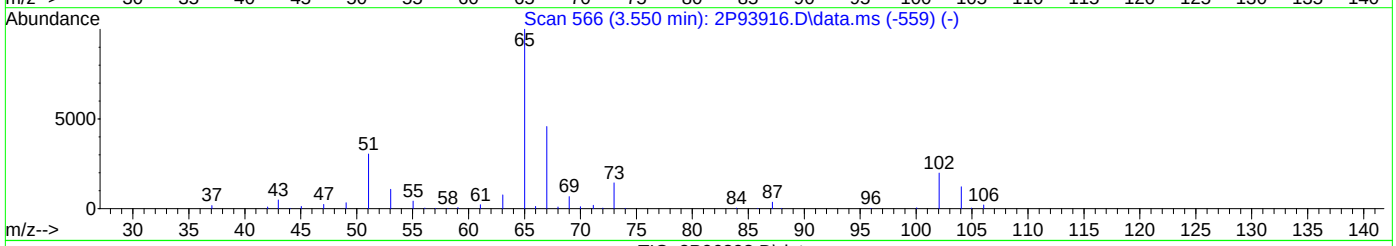
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P1658-59\
Data File : 2P96293.D
Acq On : 13 Dec 2022 3:37 pm
Operator : courtnef
Sample : FC1200-11
Misc : MS52987,V2P3658,,,,,
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Dec 13 19:43:54 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration







TIC: 2P96293.D\data.ms

(53) Trichloroethene ( )

3.825min (-0.000) 0.37ug/L m

response 1176

Ion	Exp%	Act%
94.90	100	100
129.90	92.20	85.77
96.90	64.90	58.14
131.90	83.20	76.91

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/14/22 01:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96233.D
Acq On : 12 Dec 2022 12:25 pm
Operator : courtnef
Sample : FC1200-12 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:30:55 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

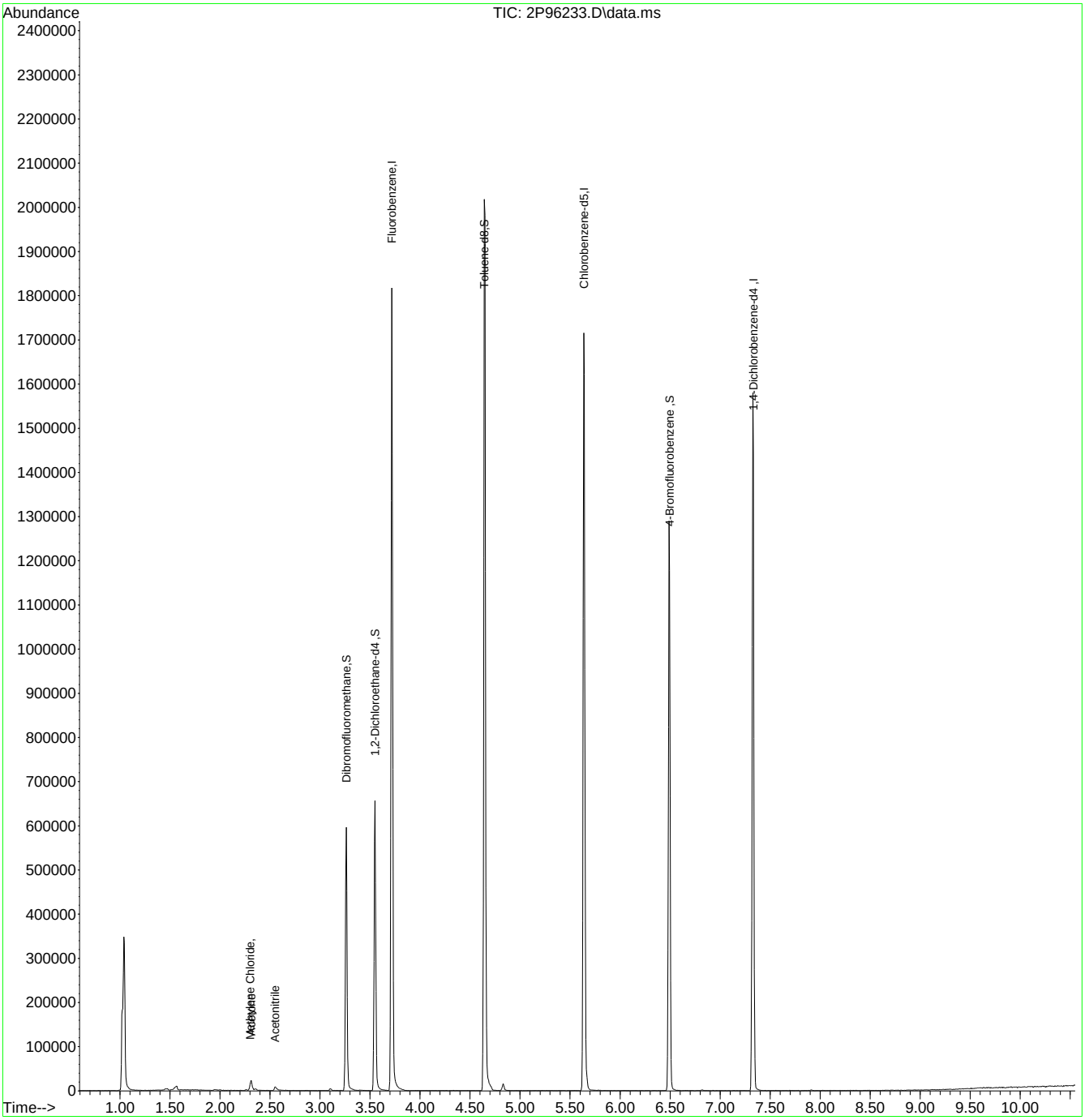
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.717	96	982079	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.637	117	660883	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.331	152	282621	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.262	113	212929	51.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.78%			
49) 1,2-Dichloroethane-d4	3.550	65	292651	49.56	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.12%			
63) Toluene-d8	4.643	98	927470	49.36	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.72%			
86) 4-Bromofluorobenzene	6.495	174	229524	52.99	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.98%			
Target Compounds						Qvalue
18) Methylene Chloride	2.300	49	4080	0.69	ug/L	97
19) Acetone	2.311	43	15299	5.52	ug/L	92
25) Acetonitrile	2.551	41	7727m	8.53	ug/L	

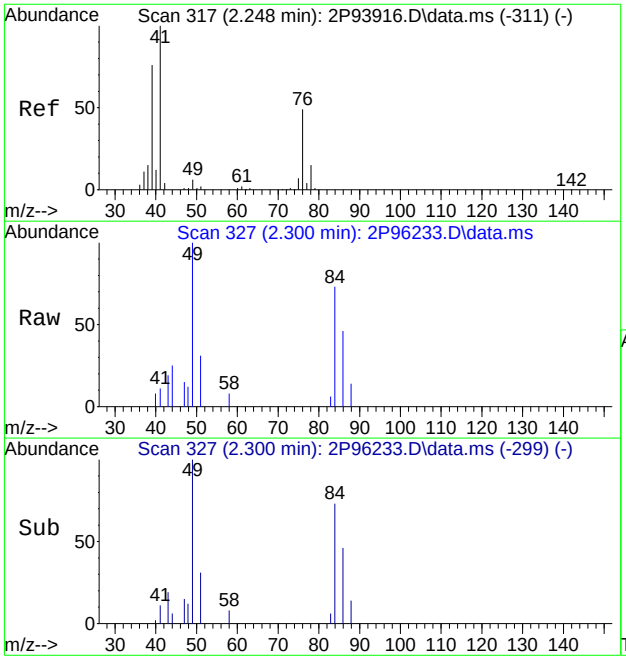
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96233.D
Acq On : 12 Dec 2022 12:25 pm
Operator : courtnef
Sample : FC1200-12 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:30:55 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

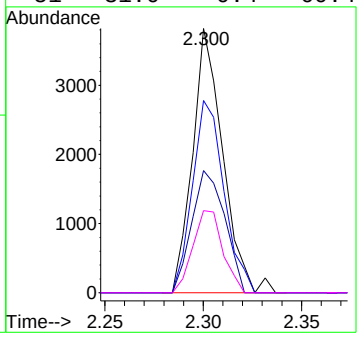


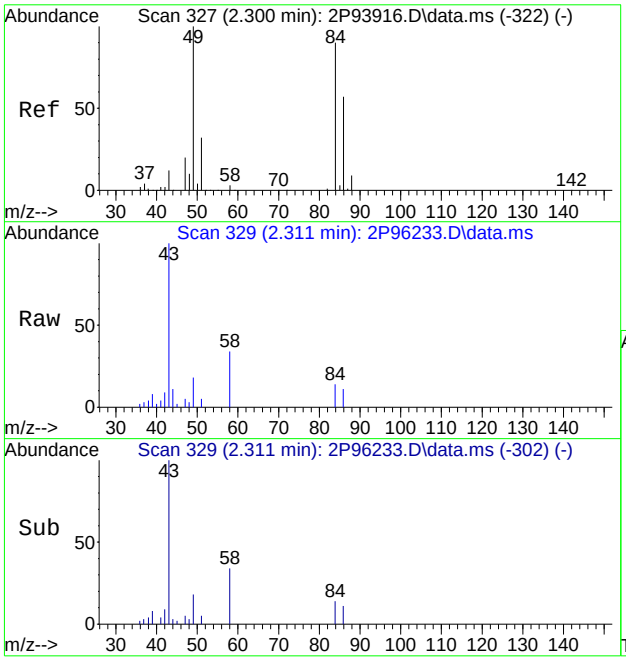


#18
Methylene Chloride
Concen: 0.69 ug/L
RT: 2.300 min Scan# 327
Delta R.T. -0.003 min
Lab File: 2P96233.D
Acq: 12 Dec 2022 12:25 pm

Tgt Ion: 49 Resp: 4080

Ion	Ratio	Lower	Upper
49	100		
84	72.7	44.9	104.9
86	46.2	20.2	80.2
51	31.0	0.4	60.4

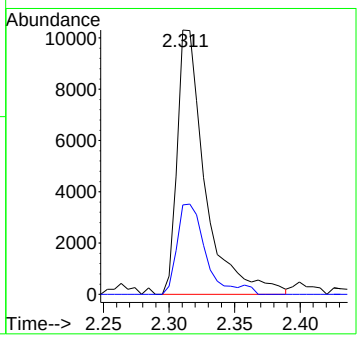


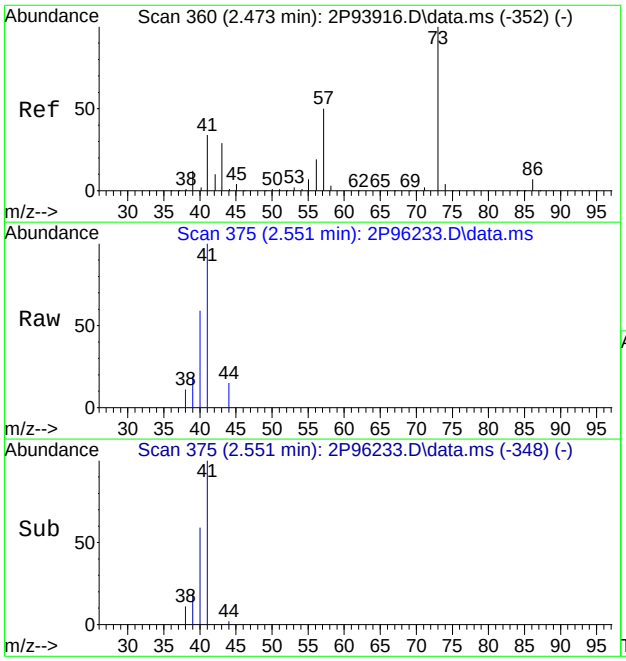


#19
Acetone
Concen: 5.52 ug/L
RT: 2.311 min Scan# 329
Delta R.T. -0.008 min
Lab File: 2P96233.D
Acq: 12 Dec 2022 12:25 pm

Tgt Ion: 43 Resp: 15299

Ion	Ratio	Lower	Upper
43	100		
58	33.8	0.0	59.7

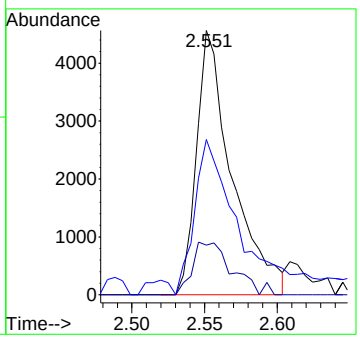




#25
Acetonitrile
Concen: 8.53 ug/L m
RT: 2.551 min Scan# 375
Delta R.T. -0.008 min
Lab File: 2P96233.D
Acq: 12 Dec 2022 12:25 pm

Tgt Ion: 41 Resp: 7727

Ion	Ratio	Lower	Upper
41	100		
40	58.8	33.9	73.9
39	18.8	0.0	39.6



Manual Integration Approval Summary

Sample Number: FC1200-12
Lab FileID: 2P96233.D
Injection Time: 12/12/22 12:25

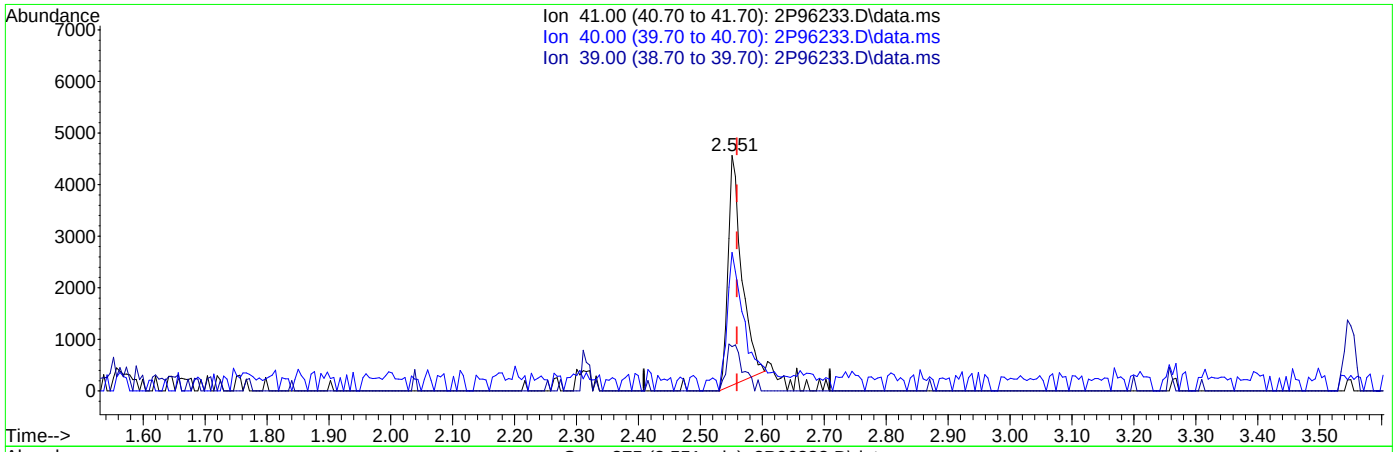
Method: SW846 8260D
Analyst approved: 12/13/22 01:19 Jennifer Fereira
Supervisor approved: 12/14/22 01:20 Jennifer Fereira

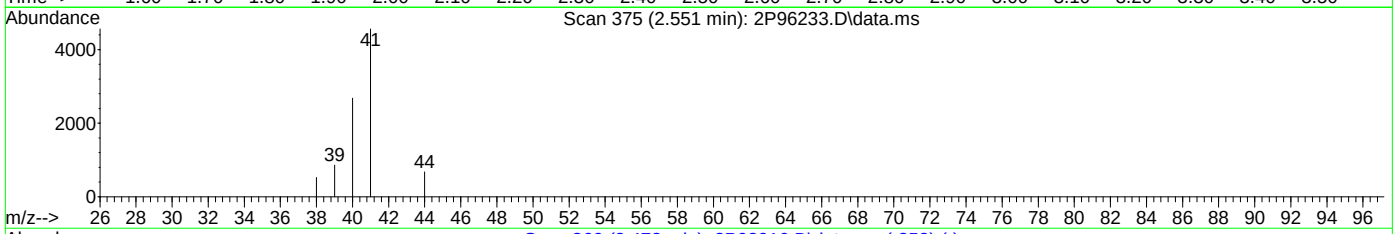
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.55	Poor instrument integration

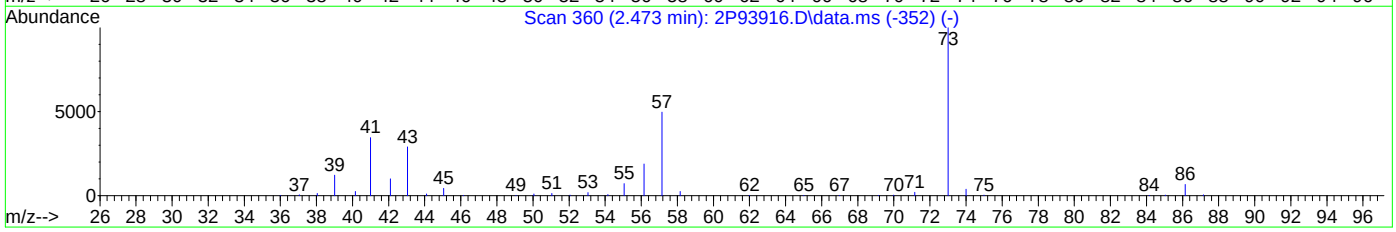
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96233.D
Acq On : 12 Dec 2022 12:25 pm
Operator : courtnef
Sample : FC1200-12 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:05:51 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration







TIC: 2P96233.D\data.ms

(25) Acetonitrile

2.551min (-0.008) 7.61ug/L

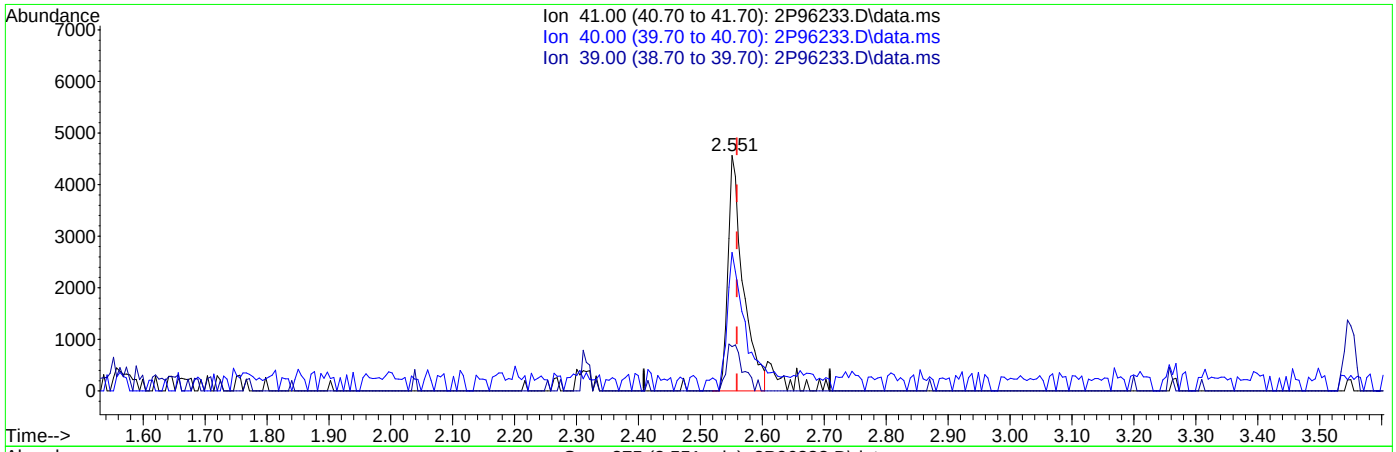
response 6883

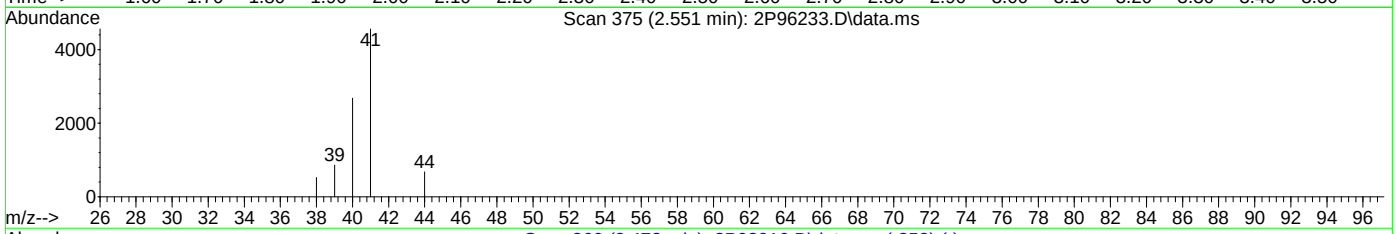
Ion	Exp%	Act%
41.00	100	100
40.00	53.90	58.76
39.00	19.60	18.81
0.00	0.00	0.00

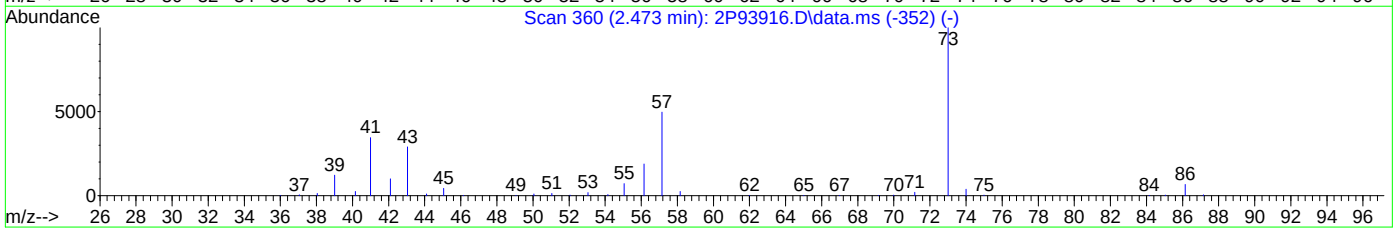
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96233.D
Acq On : 12 Dec 2022 12:25 pm
Operator : courtnef
Sample : FC1200-12 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:05:51 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration







TIC: 2P96233.D\data.ms

(25) Acetonitrile

2.551min (-0.008) 8.53ug/L m

response 7727

Ion	Exp%	Act%
41.00	100	100
40.00	53.90	58.76
39.00	19.60	18.81
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96241.D
Acq On : 12 Dec 2022 2:33 pm
Operator : courtnef
Sample : FC1200-13 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 60 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:33:59 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

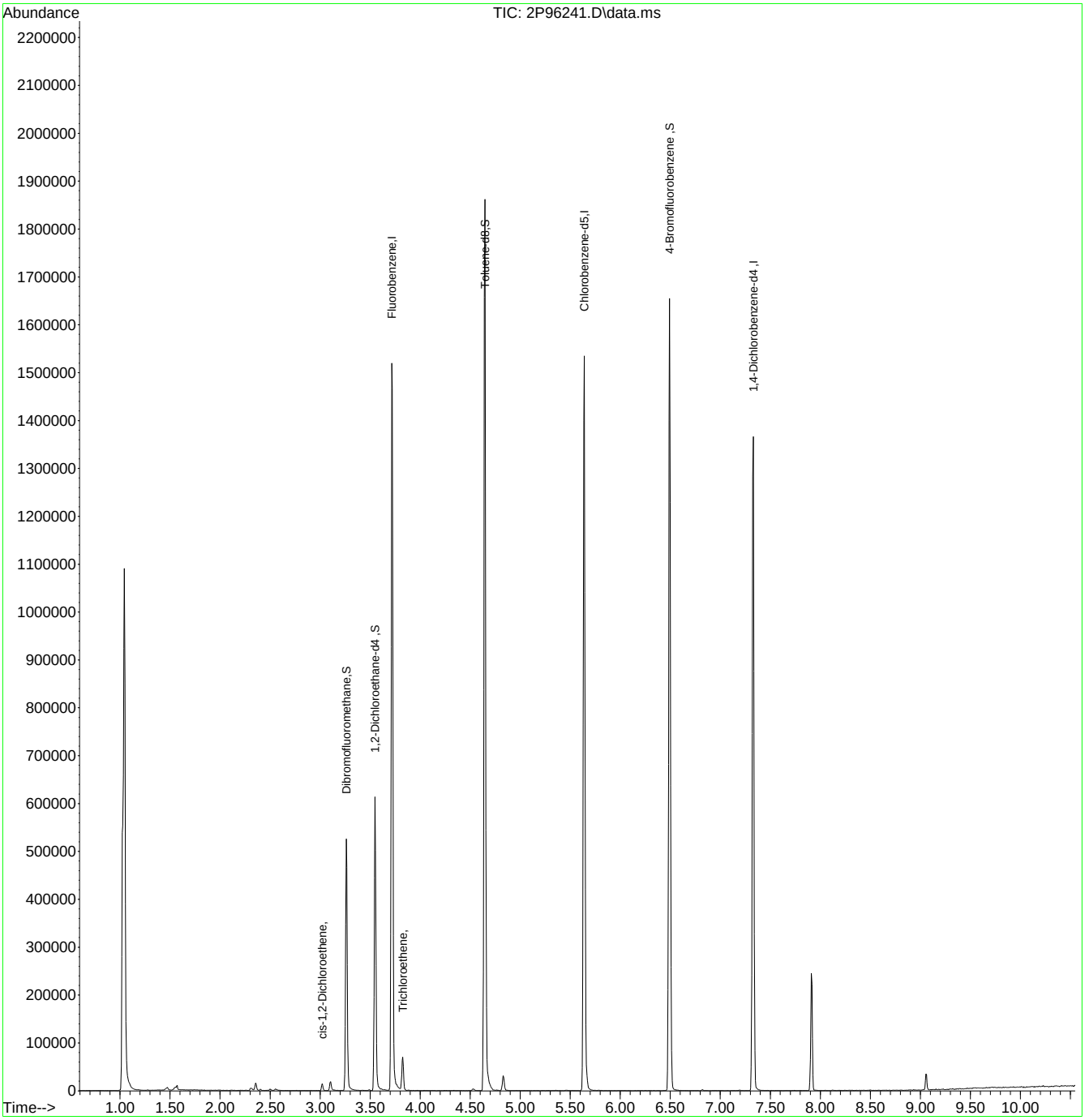
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.716	96	845780	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	579267	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	243981	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.261	113	188830	53.43	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.86%			
49) 1,2-Dichloroethane-d4	3.549	65	268115	52.73	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.46%			
63) Toluene-d8	4.647	98	816807	49.59	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.18%			
86) 4-Bromofluorobenzene	6.493	174	210793	56.37	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 112.74%			
Target Compounds						Qvalue
32) cis-1,2-Dichloroethene	3.021	96	3771	1.12	ug/L	92
53) Trichloroethene	3.826	95	15634	4.48	ug/L	96

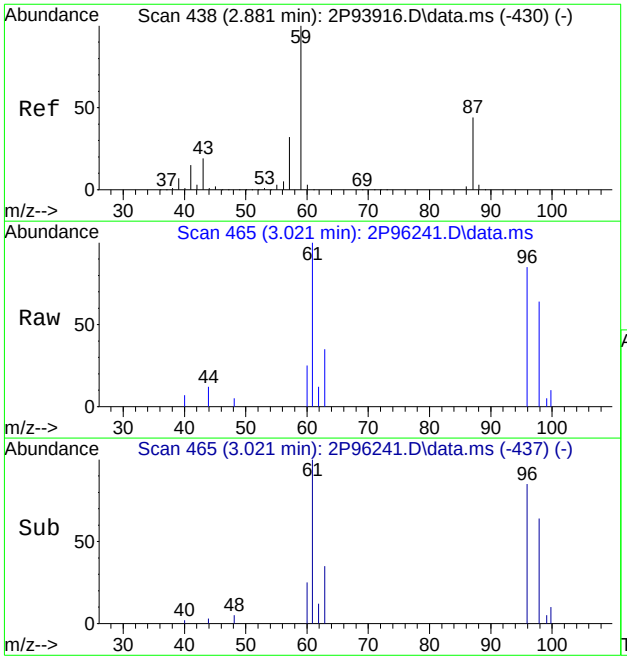
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96241.D
Acq On : 12 Dec 2022 2:33 pm
Operator : courtnef
Sample : FC1200-13 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 60 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:33:59 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

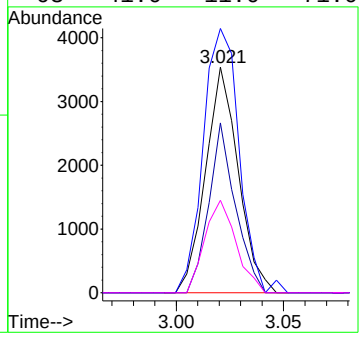


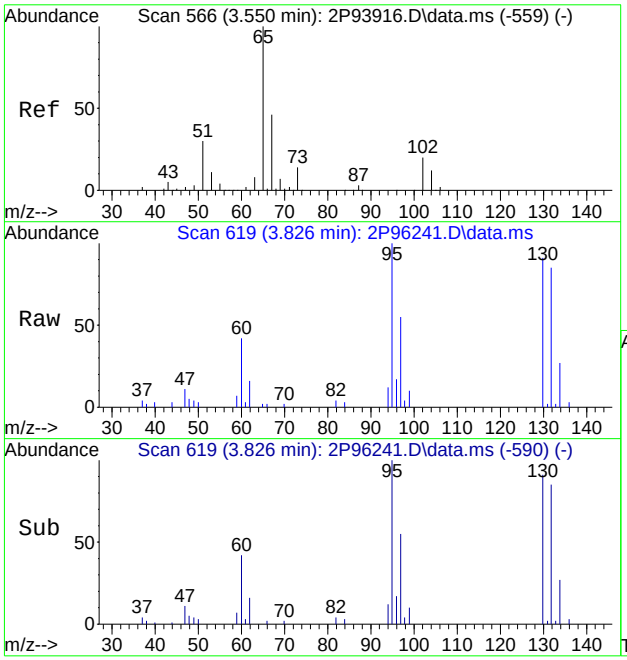


#32
cis-1,2-Dichloroethene
Concen: 1.12 ug/L
RT: 3.021 min Scan# 465
Delta R.T. -0.005 min
Lab File: 2P96241.D
Acq: 12 Dec 2022 2:33 pm

Tgt Ion: 96 Resp: 3771

Ion	Ratio	Lower	Upper
96	100		
61	117.2	95.0	155.0
98	75.3	33.8	93.8
63	41.0	11.0	71.0

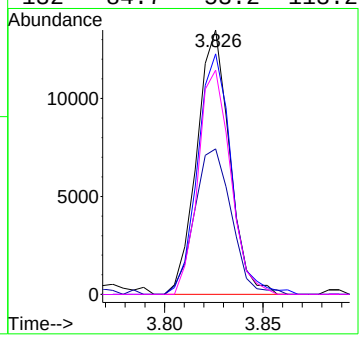




#53
Trichloroethene
Concen: 4.48 ug/L
RT: 3.826 min Scan# 619
Delta R.T. 0.000 min
Lab File: 2P96241.D
Acq: 12 Dec 2022 2:33 pm

Tgt Ion: 95 Resp: 15634

Ion	Ratio	Lower	Upper
95	100		
130	90.9	62.2	122.2
97	55.0	34.9	94.9
132	84.7	53.2	113.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96243.D
Acq On : 12 Dec 2022 3:05 pm
Operator : courtnef
Sample : FC1200-14 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:34:55 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

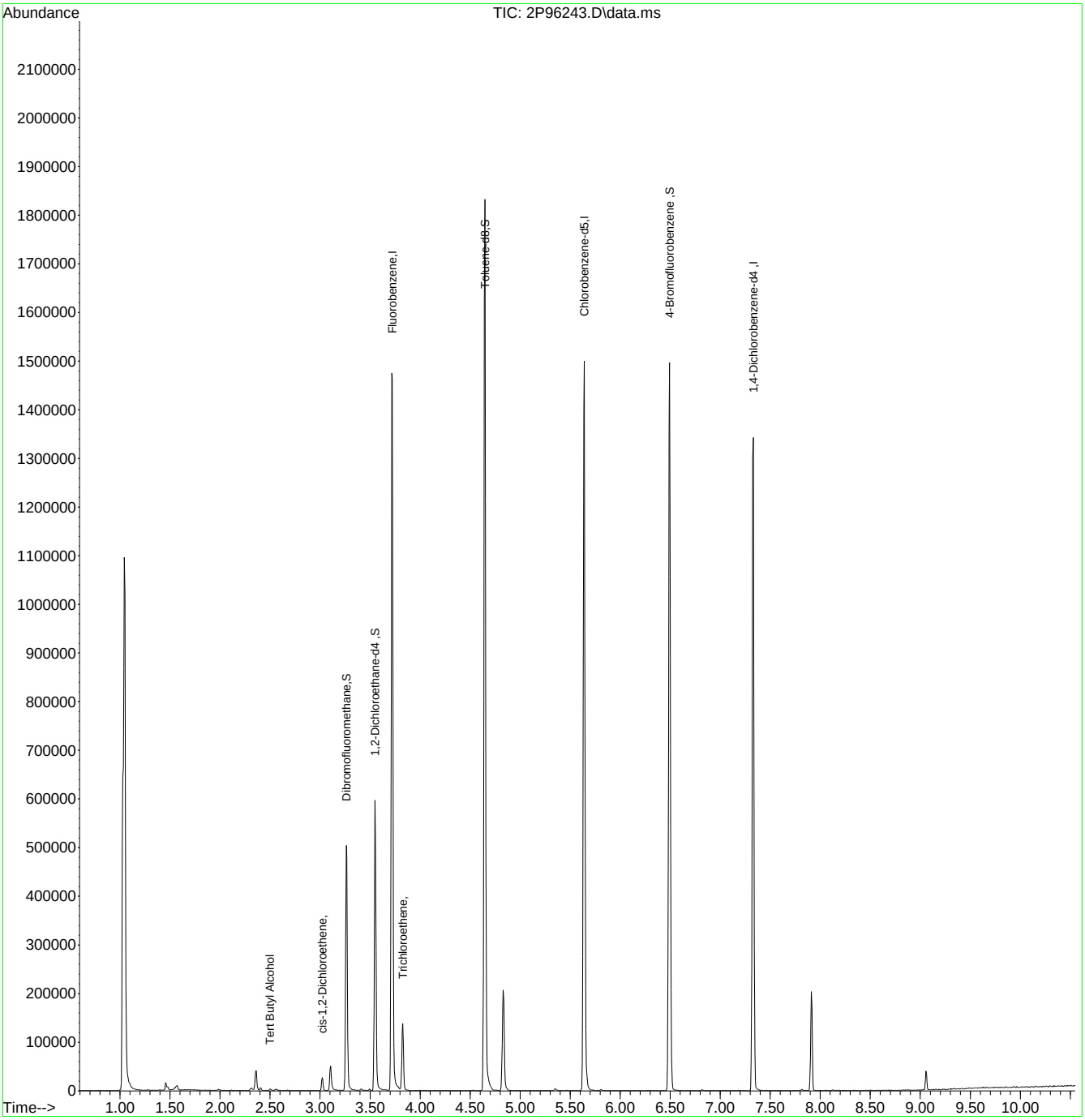
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.722	96	824955	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	567222	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.331	152	244967	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.262	113	185210	53.73	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.46%			
49) 1,2-Dichloroethane-d4	3.549	65	261229	52.67	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.34%			
63) Toluene-d8	4.648	98	783487	48.58	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.16%			
86) 4-Bromofluorobenzene	6.494	174	200008	53.27	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.54%			
Target Compounds						Qvalue
24) Tert Butyl Alcohol	2.498	59	2274	2.03	ug/L	79
32) cis-1,2-Dichloroethene	3.021	96	7012	2.13	ug/L	93
53) Trichloroethene	3.826	95	29470	8.65	ug/L	97

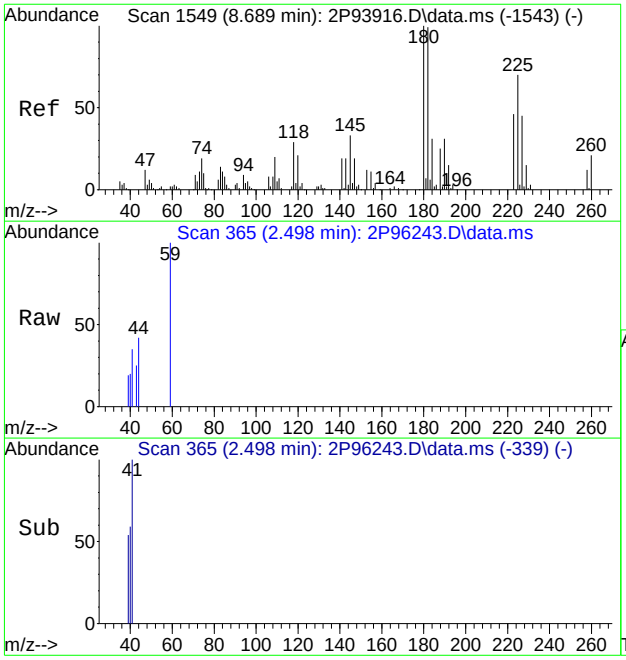
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96243.D
Acq On : 12 Dec 2022 3:05 pm
Operator : courtnef
Sample : FC1200-14 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:34:55 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

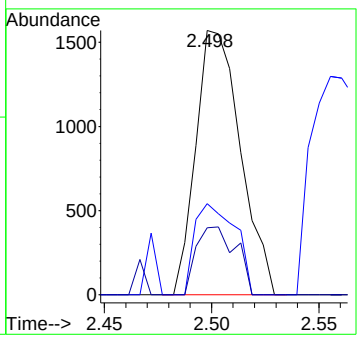


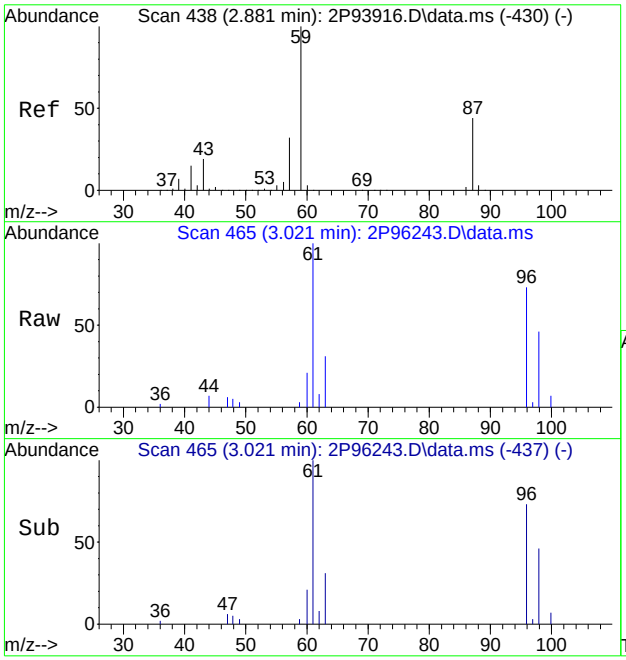


#24
Tert Butyl Alcohol
Concen: 2.03 ug/L
RT: 2.498 min Scan# 365
Delta R.T. -0.015 min
Lab File: 2P96243.D
Acq: 12 Dec 2022 3:05 pm

Tgt Ion: 59 Resp: 2274

Ion	Ratio	Lower	Upper
59	100		
41	34.5	3.9	43.9
43	25.4	0.0	36.4

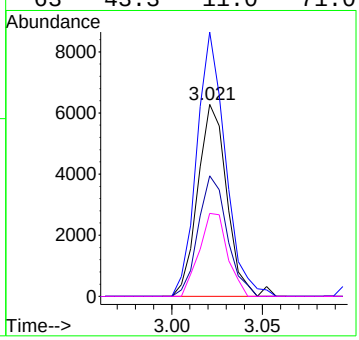


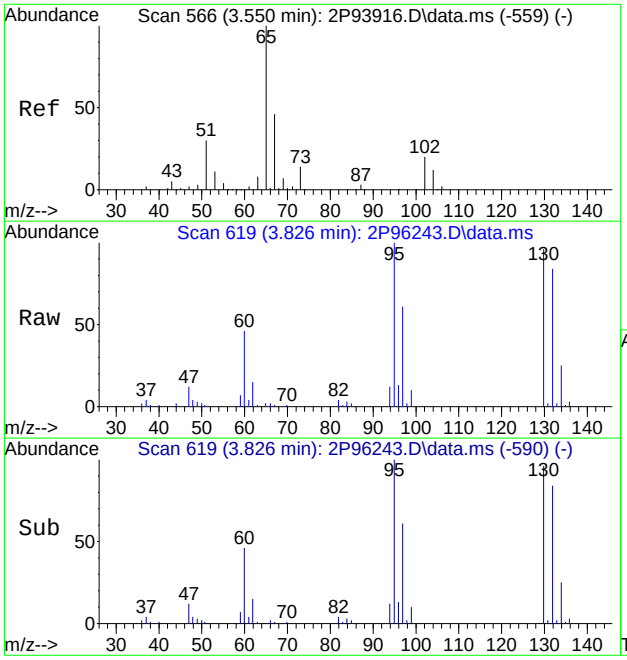


#32
cis-1,2-Dichloroethene
Concen: 2.13 ug/L
RT: 3.021 min Scan# 465
Delta R.T. -0.004 min
Lab File: 2P96243.D
Acq: 12 Dec 2022 3:05 pm

Tgt Ion: 96 Resp: 7012

Ion	Ratio	Lower	Upper
96	100		
61	137.7	95.0	155.0
98	62.8	33.8	93.8
63	43.3	11.0	71.0

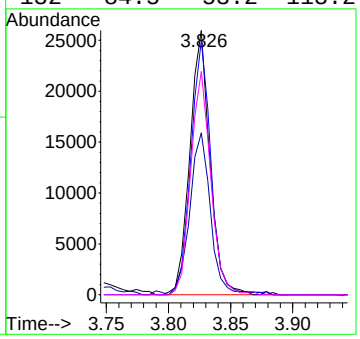




#53
Trichloroethene
Concen: 8.65 ug/L
RT: 3.826 min Scan# 619
Delta R.T. 0.001 min
Lab File: 2P96243.D
Acq: 12 Dec 2022 3:05 pm

Tgt Ion: 95 Resp: 29470

Ion	Ratio	Lower	Upper
95	100		
130	96.1	62.2	122.2
97	61.2	34.9	94.9
132	84.5	53.2	113.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753625.d
Acq On : 15 Dec 2022 1:16 pm
Operator : kylieg
Sample : FC1200-15 Inst : MSVOA16
Misc : MS52988,VI2788,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:11:54 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

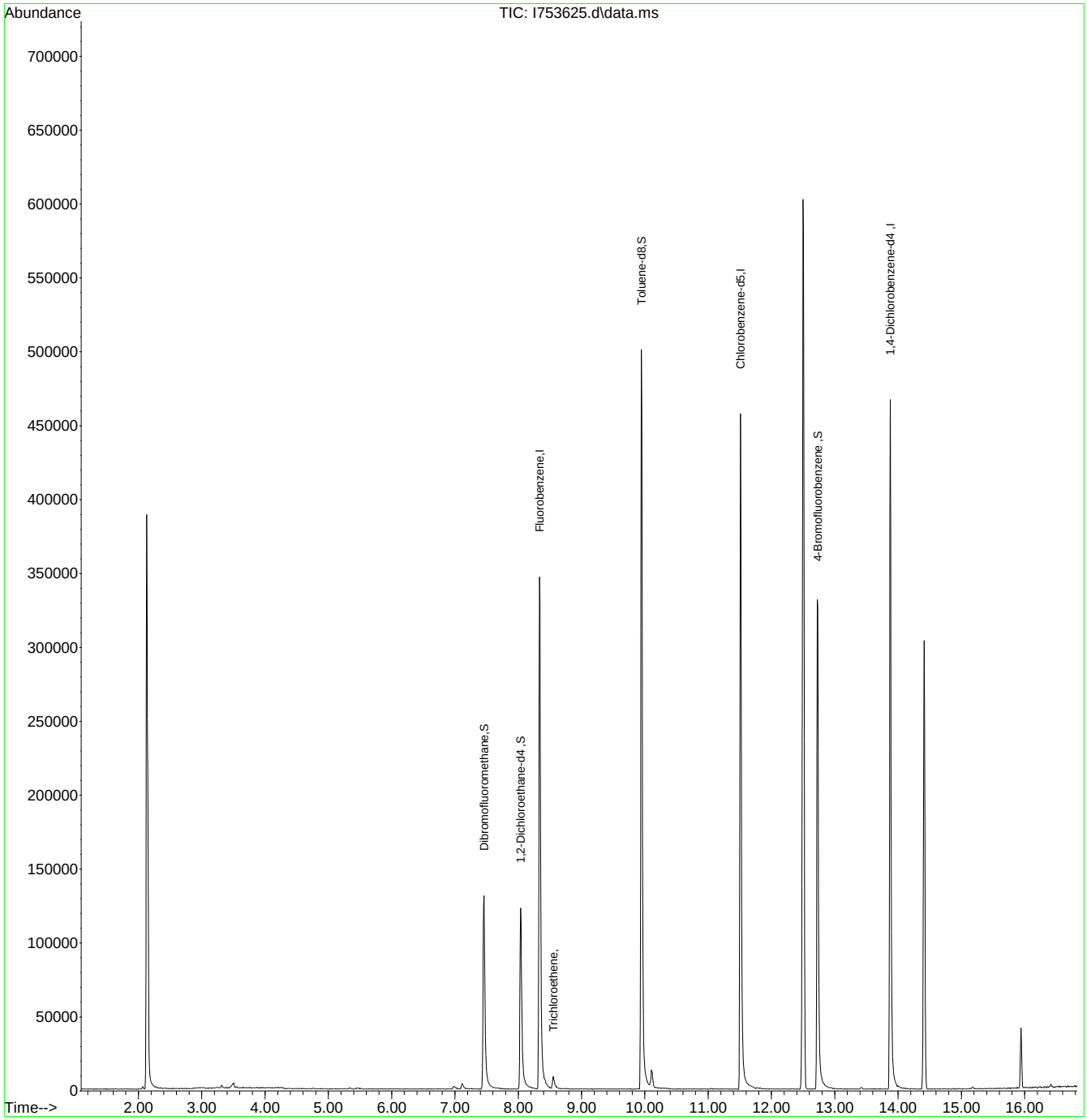
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.335	96	294661	50.00	ug/L	0.00
62) Chlorobenzene-d5	11.512	117	237400	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.877	152	116403	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.458	113	86096	54.75	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.50%			
49) 1,2-Dichloroethane-d4	8.037	65	94472	52.05	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 104.10%			
63) Toluene-d8	9.945	98	307614	45.95	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 91.90%			
86) 4-Bromofluorobenzene	12.731	174	99953	52.18	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.36%			
Target Compounds						Qvalue
53) Trichloroethene	8.555	95	3718	3.13	ug/L	93

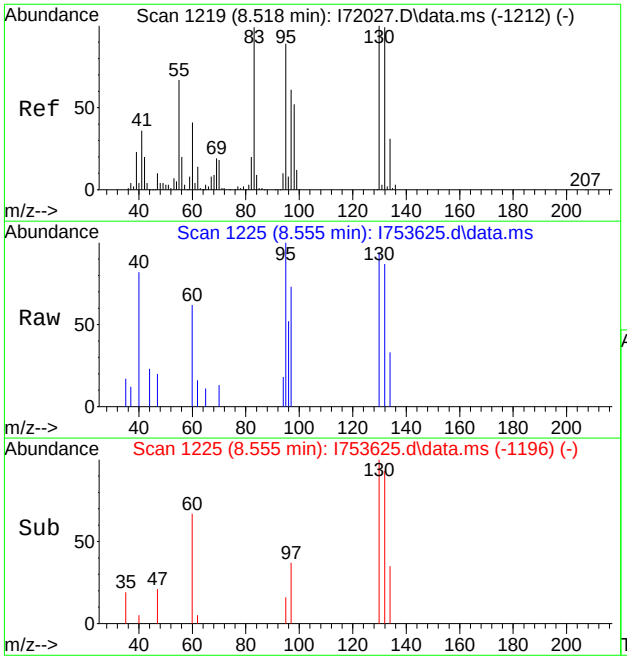
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753625.d
Acq On : 15 Dec 2022 1:16 pm
Operator : kylieg
Sample : FC1200-15 Inst : MSVOA16
Misc : MS52988,VI2788,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:11:54 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

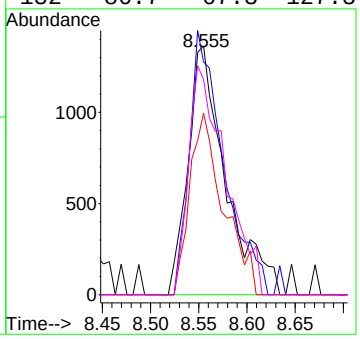




#53
Trichloroethene
Concen: 3.13 ug/L
RT: 8.555 min Scan# 1225
Delta R.T. 0.025 min
Lab File: I753625.d
Acq: 15 Dec 2022 1:16 pm

Tgt Ion: 95 Resp: 3718

Ion	Ratio	Lower	Upper
95	100		
130	93.6	65.3	125.3
97	73.0	35.2	95.2
132	86.7	67.3	127.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96245.D
Acq On : 12 Dec 2022 3:37 pm
Operator : courtnef
Sample : FC1200-15 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 62 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:35:26 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

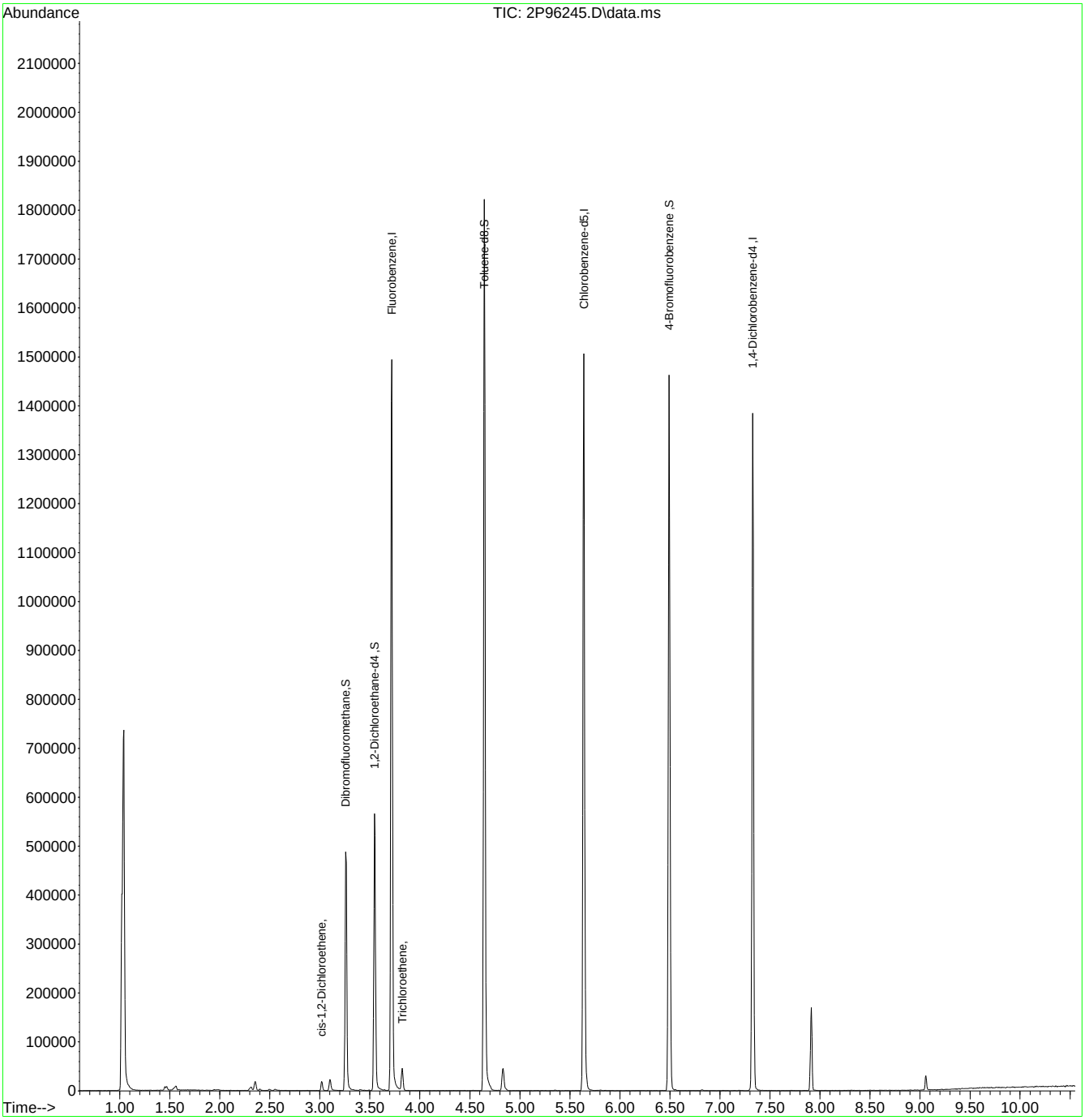
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.719	96	813322	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.639	117	551354	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.328	152	234170	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.259	113	179009	52.67	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.34%			
49) 1,2-Dichloroethane-d4	3.547	65	253473	51.84	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.68%			
63) Toluene-d8	4.645	98	777544	49.60	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.20%			
86) 4-Bromofluorobenzene	6.491	174	196010	54.61	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.22%			
Target Compounds						Qvalue
32) cis-1,2-Dichloroethene	3.019	96	5136	1.58	ug/L	96
53) Trichloroethene	3.824	95	9816	2.92	ug/L	96

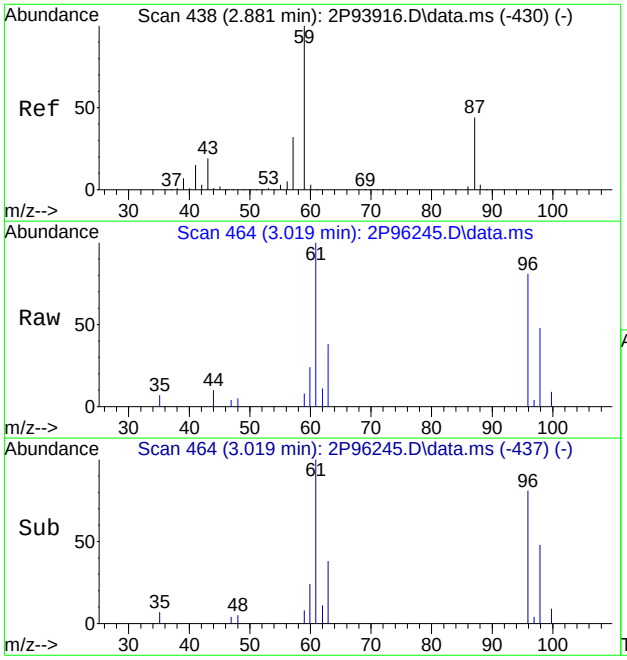
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96245.D
Acq On : 12 Dec 2022 3:37 pm
Operator : courtnef
Sample : FC1200-15 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 62 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:35:26 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

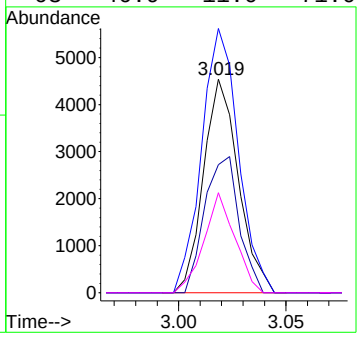


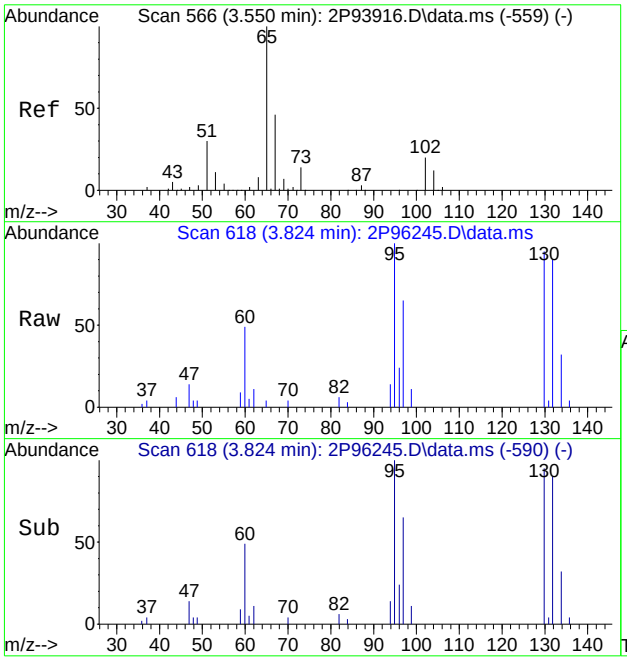


#32
cis-1,2-Dichloroethene
Concen: 1.58 ug/L
RT: 3.019 min Scan# 464
Delta R.T. -0.007 min
Lab File: 2P96245.D
Acq: 12 Dec 2022 3:37 pm

Tgt Ion: 96 Resp: 5136

Ion	Ratio	Lower	Upper
96	100		
61	123.9	95.0	155.0
98	60.0	33.8	93.8
63	46.9	11.0	71.0

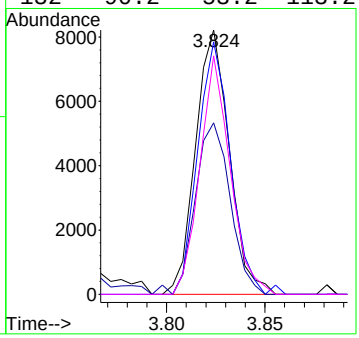




#53
Trichloroethene
Concen: 2.92 ug/L
RT: 3.824 min Scan# 618
Delta R.T. -0.002 min
Lab File: 2P96245.D
Acq: 12 Dec 2022 3:37 pm

Tgt Ion: 95 Resp: 9816

Ion	Ratio	Lower	Upper
95	100		
130	95.5	62.2	122.2
97	64.9	34.9	94.9
132	90.2	53.2	113.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96247.D
Acq On : 12 Dec 2022 4:09 pm
Operator : courtnef
Sample : FC1200-16 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 63 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:36:17 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

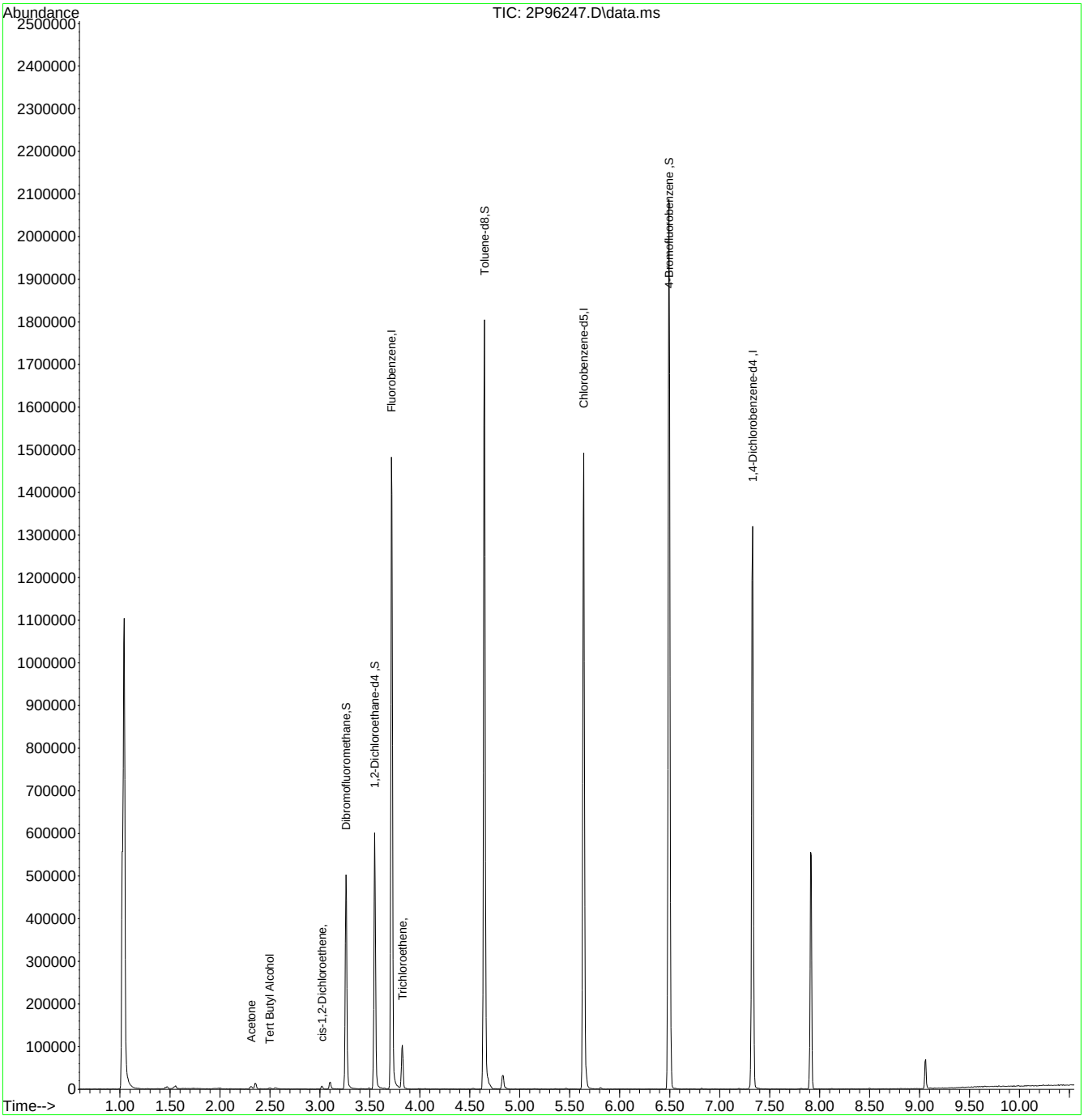
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.716	96	812670	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.640	117	553700	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	236350	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.261	113	180115	53.04	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.08%			
49) 1,2-Dichloroethane-d4	3.548	65	258780	52.96	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.92%			
63) Toluene-d8	4.647	98	772072	49.04	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.08%			
86) 4-Bromofluorobenzene	6.493	174	201762	55.70	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 111.40%			
Target Compounds						Qvalue
19) Acetone	2.314	43	4946	2.16	ug/L	88
24) Tert Butyl Alcohol	2.497	59	2305	2.09	ug/L	85
32) cis-1,2-Dichloroethene	3.020	96	1968	0.61	ug/L	82
53) Trichloroethene	3.826	95	23072	6.88	ug/L	97

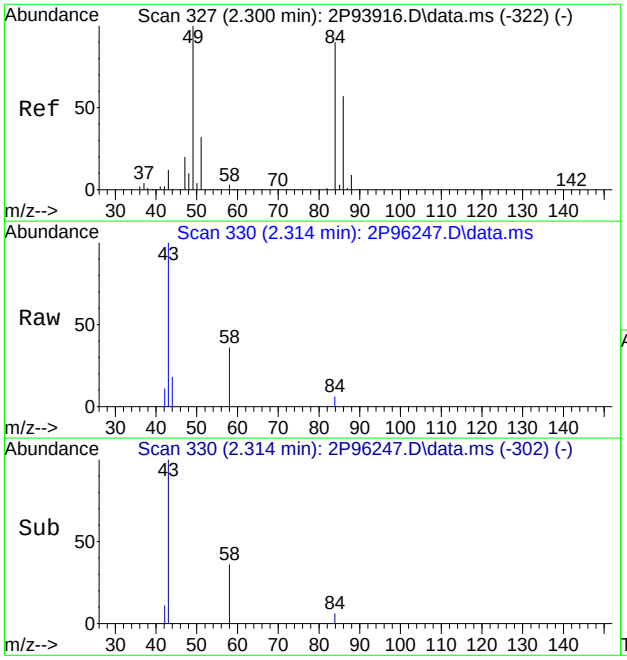
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96247.D
Acq On : 12 Dec 2022 4:09 pm
Operator : courtnef
Sample : FC1200-16 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 63 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:36:17 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

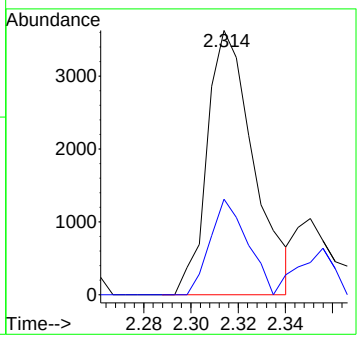


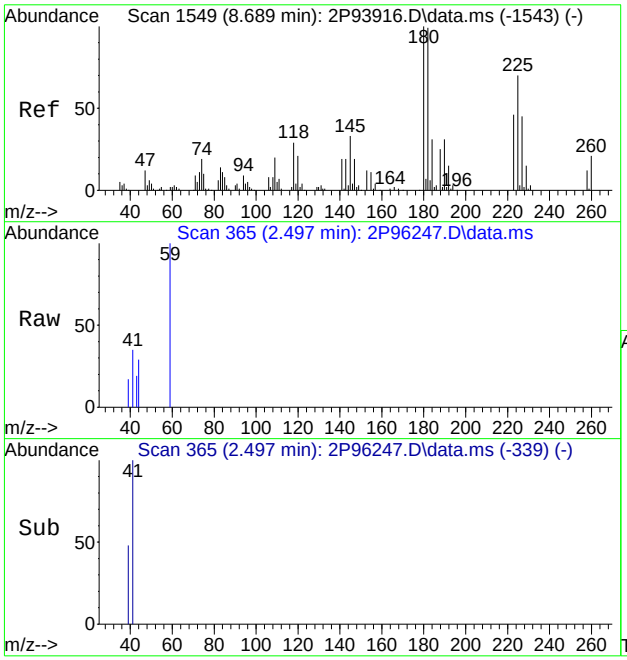


#19
Acetone
Concen: 2.16 ug/L
RT: 2.314 min Scan# 330
Delta R.T. -0.005 min
Lab File: 2P96247.D
Acq: 12 Dec 2022 4:09 pm

Tgt Ion: 43 Resp: 4946

Ion	Ratio	Lower	Upper
43	100		
58	36.2	0.0	59.7

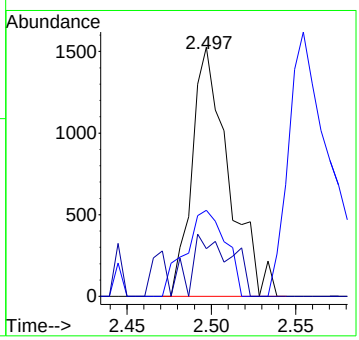


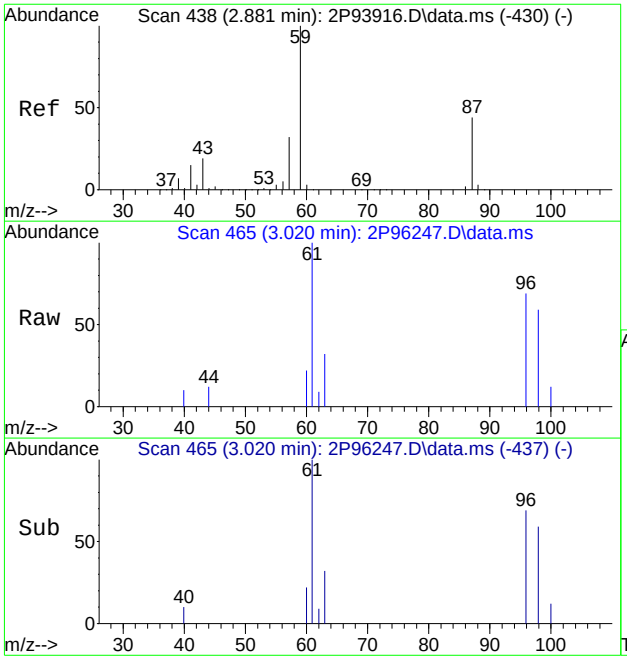


#24
Tert Butyl Alcohol
Concen: 2.09 ug/L
RT: 2.497 min Scan# 365
Delta R.T. -0.016 min
Lab File: 2P96247.D
Acq: 12 Dec 2022 4:09 pm

Tgt Ion: 59 Resp: 2305

Ion	Ratio	Lower	Upper
59	100		
41	34.5	3.9	43.9
43	19.1	0.0	36.4

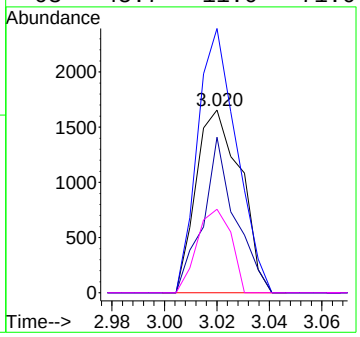


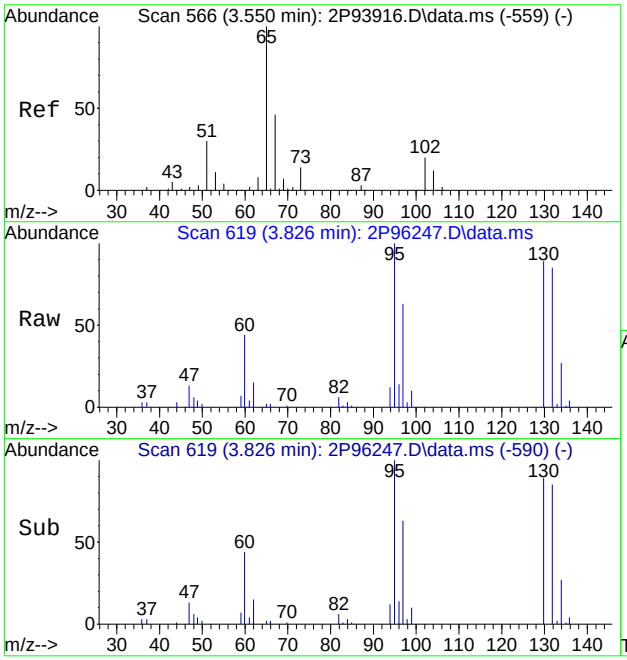


#32
cis-1,2-Dichloroethene
Concen: 0.61 ug/L
RT: 3.020 min Scan# 465
Delta R.T. -0.005 min
Lab File: 2P96247.D
Acq: 12 Dec 2022 4:09 pm

Tgt Ion: 96 Resp: 1968

Ion	Ratio	Lower	Upper
96	100		
61	144.6	95.0	155.0
98	85.0	33.8	93.8
63	45.7	11.0	71.0

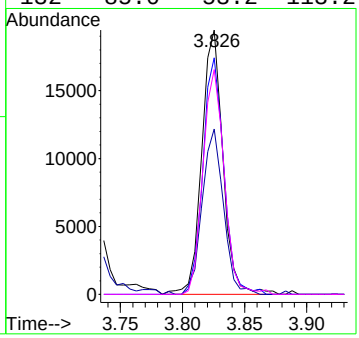




#53
Trichloroethene
Concen: 6.88 ug/L
RT: 3.826 min Scan# 619
Delta R.T. 0.000 min
Lab File: 2P96247.D
Acq: 12 Dec 2022 4:09 pm

Tgt Ion: 95 Resp: 23072

Ion	Ratio	Lower	Upper
95	100		
130	89.5	62.2	122.2
97	62.6	34.9	94.9
132	85.0	53.2	113.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753626.d
Acq On : 15 Dec 2022 1:40 pm
Operator : kylieg
Sample : FC1200-17 Inst : MSVOA16
Misc : MS52988,VI2788,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:12:24 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

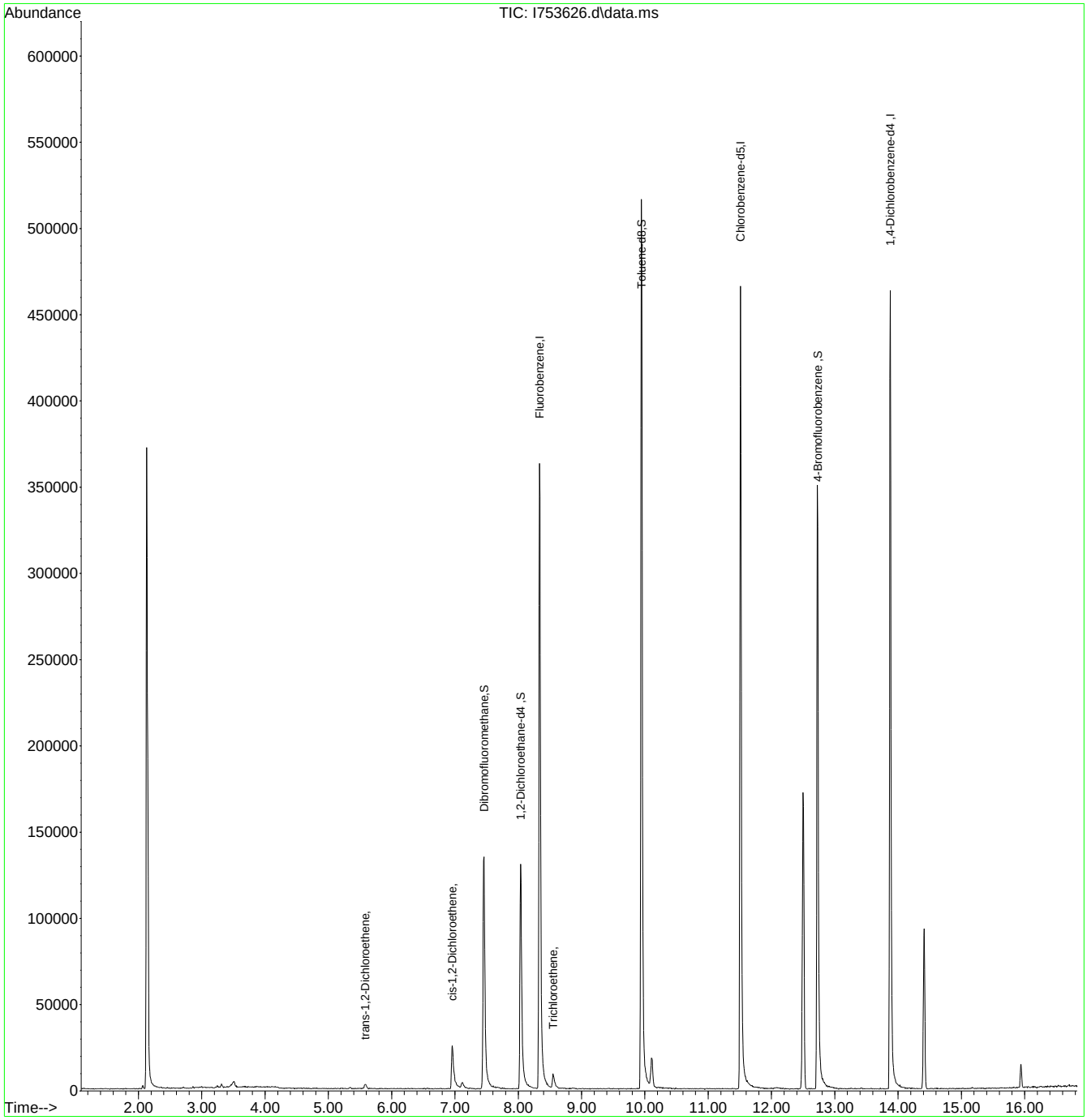
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.335	96	307584	50.00	ug/L	0.00
62) Chlorobenzene-d5	11.512	117	243891	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.877	152	119633	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.458	113	88780	54.08	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 108.16%			
49) 1,2-Dichloroethane-d4	8.037	65	100199	52.89	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.78%			
63) Toluene-d8	9.945	98	314484	45.73	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 91.46%			
86) 4-Bromofluorobenzene	12.731	174	103238	52.44	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.88%			
Target Compounds						Qvalue
21) trans-1,2-Dichloroethene	5.580	61	2343	1.28	ug/L	95
32) cis-1,2-Dichloroethene	6.958	96	14745	12.95	ug/L	97
53) Trichloroethene	8.549	95	3871	3.12	ug/L	94

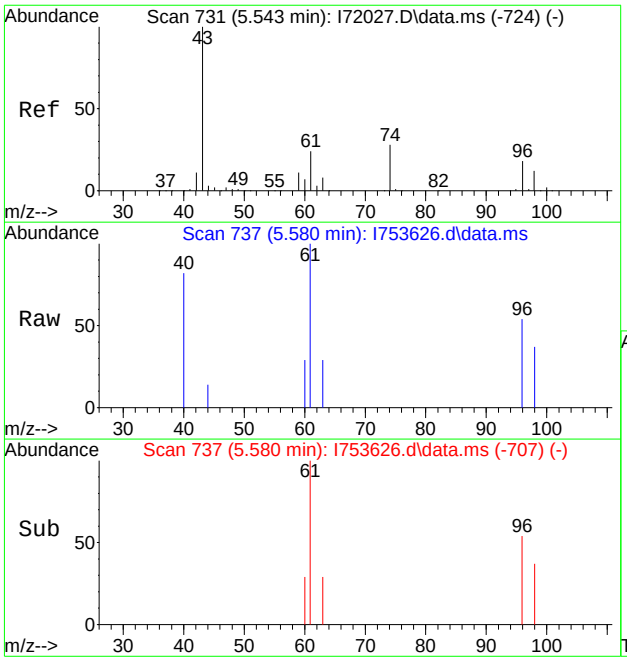
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753626.d
Acq On : 15 Dec 2022 1:40 pm
Operator : kylieg
Sample : FC1200-17 Inst : MSVOA16
Misc : MS52988,VI2788,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:12:24 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

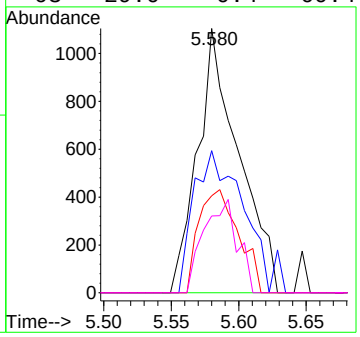


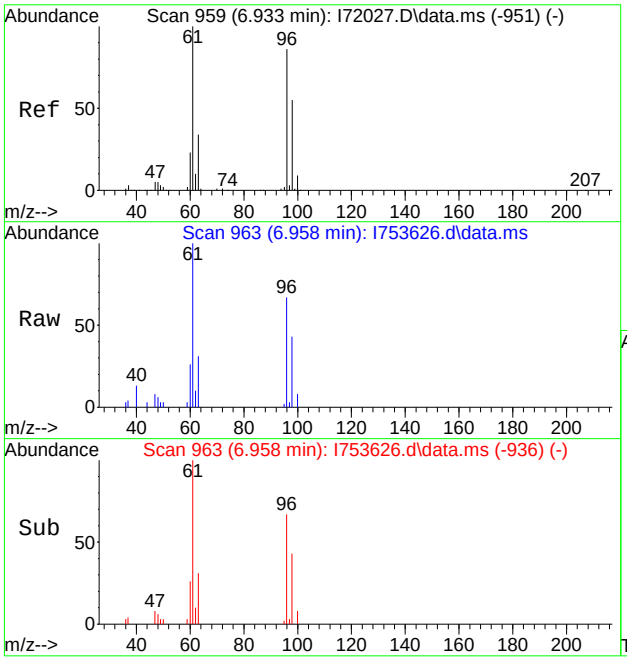


#21
trans-1,2-Dichloroethene
Concen: 1.28 ug/L
RT: 5.580 min Scan# 737
Delta R.T. 0.031 min
Lab File: I753626.d
Acq: 15 Dec 2022 1:40 pm

Tgt Ion: 61 Resp: 2343

Ion	Ratio	Lower	Upper
61	100		
96	53.8	29.2	89.2
98	36.7	8.1	68.1
63	29.0	0.4	60.4

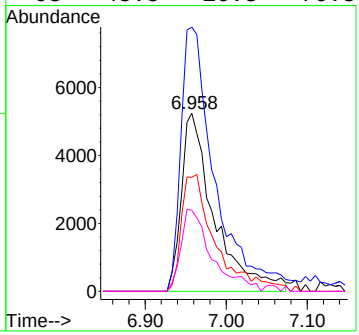


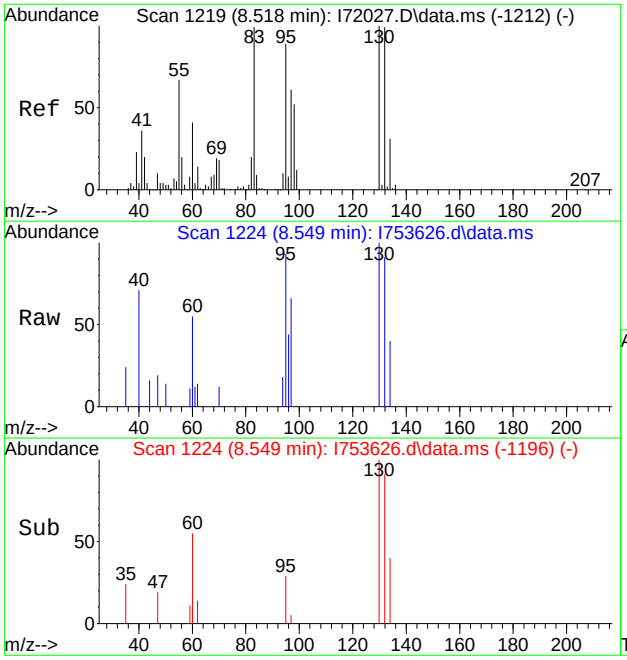


#32
cis-1,2-Dichloroethene
Concen: 12.95 ug/L
RT: 6.958 min Scan# 963
Delta R.T. 0.013 min
Lab File: I753626.d
Acq: 15 Dec 2022 1:40 pm

Tgt Ion: 96 Resp: 14745

Ion	Ratio	Lower	Upper
96	100		
61	148.4	121.3	181.3
98	64.0	37.2	97.2
63	45.5	16.8	76.8

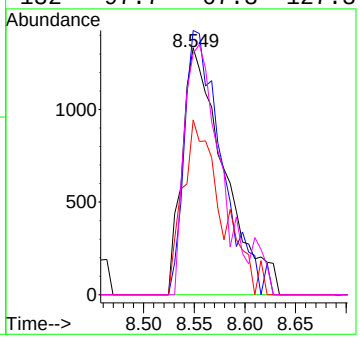




#53
Trichloroethene
Concen: 3.12 ug/L
RT: 8.549 min Scan# 1224
Delta R.T. 0.019 min
Lab File: I753626.d
Acq: 15 Dec 2022 1:40 pm

Tgt Ion: 95 Resp: 3871

Ion	Ratio	Lower	Upper
95	100		
130	107.1	65.3	125.3
97	70.9	35.2	95.2
132	97.7	67.3	127.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96249.D
Acq On : 12 Dec 2022 4:41 pm
Operator : courtnef
Sample : FC1200-17 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 64 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:37:23 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

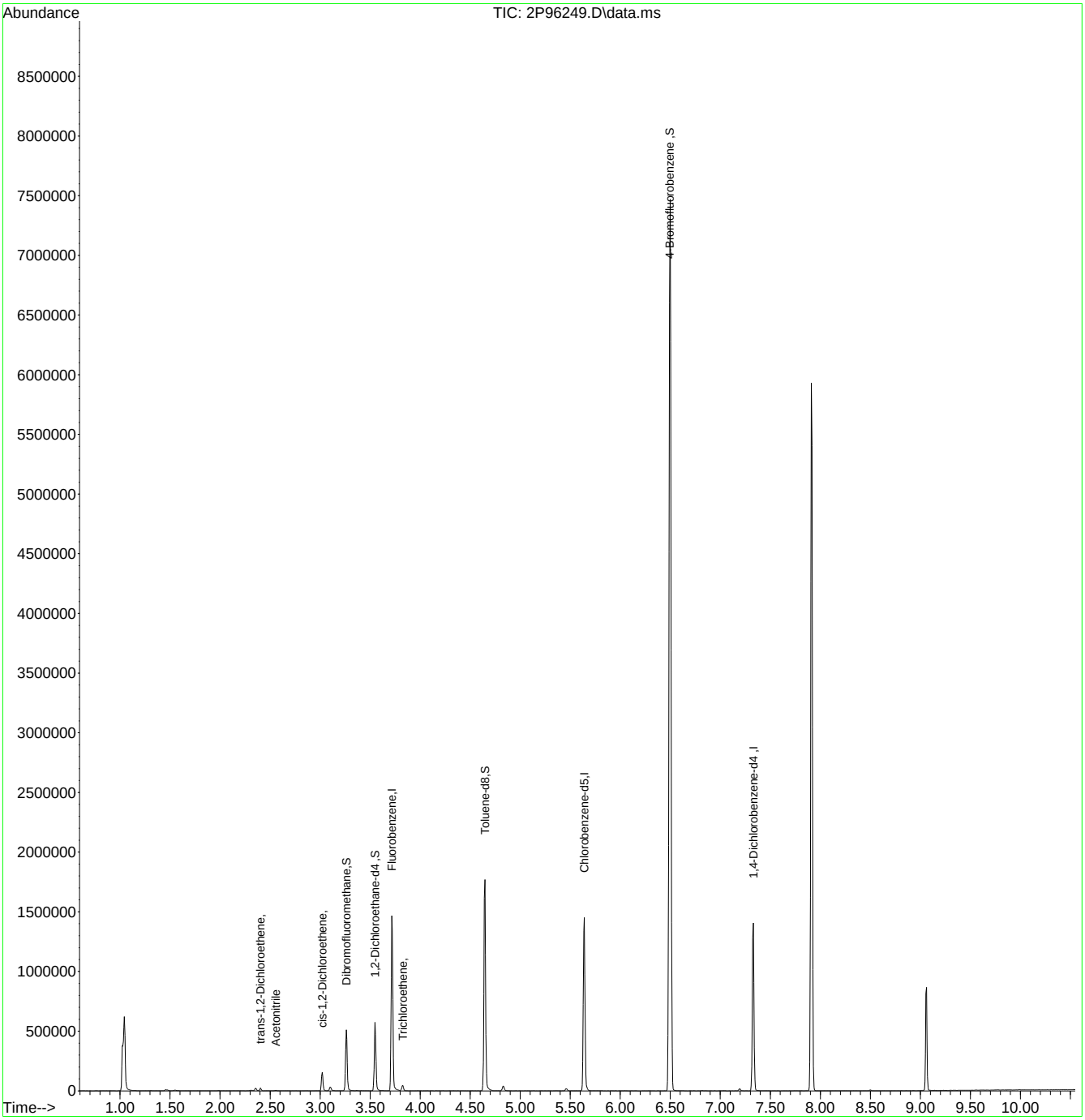
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.716	96	808291	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	545320	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	248192	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.261	113	179487	53.14	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.28%			
49) 1,2-Dichloroethane-d4	3.549	65	249571	51.36	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.72%			
63) Toluene-d8	4.647	98	763752	49.26	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.52%			
86) 4-Bromofluorobenzene	6.493	174	180306	47.40	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.80%			
Target Compounds						Qvalue
21) trans-1,2-Dichloroethene	2.403	61	6715	1.51	ug/L	96
25) Acetonitrile	2.555	41	2973	4.00	ug/L	86
32) cis-1,2-Dichloroethene	3.021	96	39910	12.38	ug/L	92
53) Trichloroethene	3.826	95	10096	3.03	ug/L	85

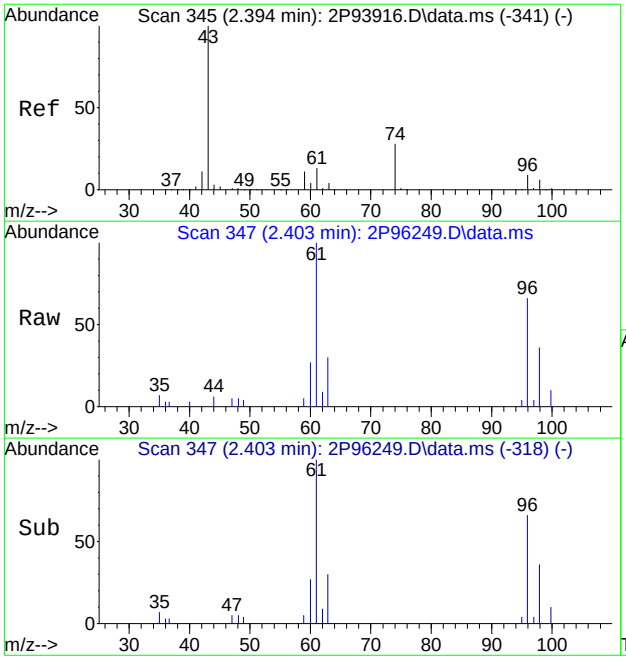
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96249.D
Acq On : 12 Dec 2022 4:41 pm
Operator : courtnef
Sample : FC1200-17 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 64 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:37:23 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

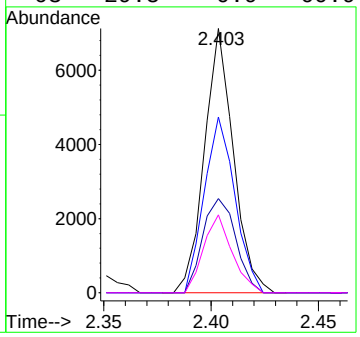


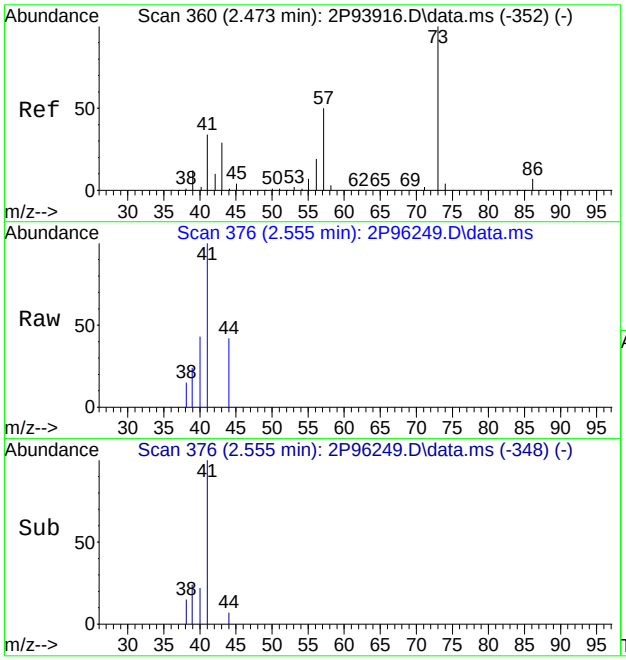


#21
trans-1,2-Dichloroethene
Concen: 1.51 ug/L
RT: 2.403 min Scan# 347
Delta R.T. 0.000 min
Lab File: 2P96249.D
Acq: 12 Dec 2022 4:41 pm

Tgt Ion: 61 Resp: 6715

Ion	Ratio	Lower	Upper
61	100		
96	66.5	35.0	95.0
98	35.6	10.9	70.9
63	29.5	0.9	60.9

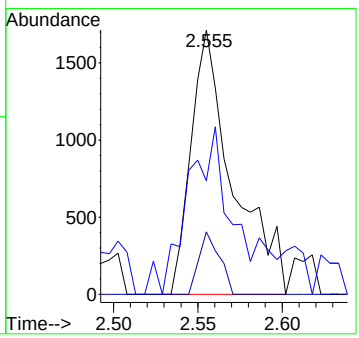


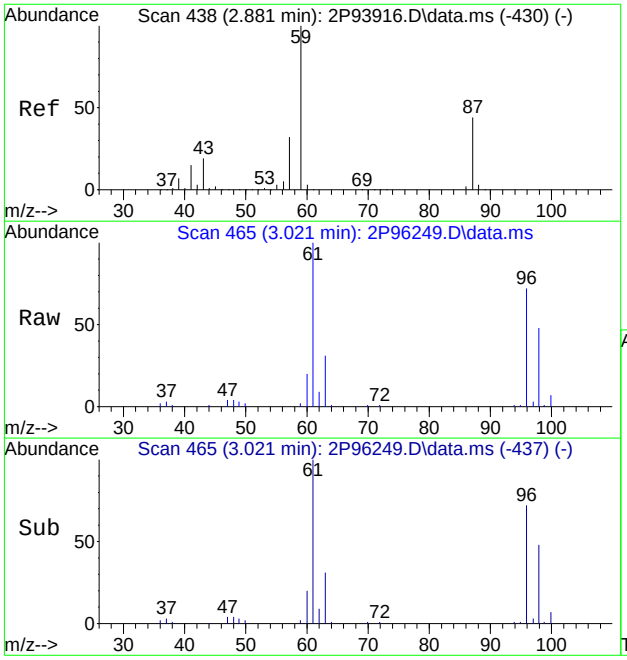


#25
Acetonitrile
Concen: 4.00 ug/L
RT: 2.555 min Scan# 376
Delta R.T. -0.004 min
Lab File: 2P96249.D
Acq: 12 Dec 2022 4:41 pm

Tgt Ion: 41 Resp: 2973

Ion	Ratio	Lower	Upper
41	100		
40	42.9	33.9	73.9
39	23.6	0.0	39.6

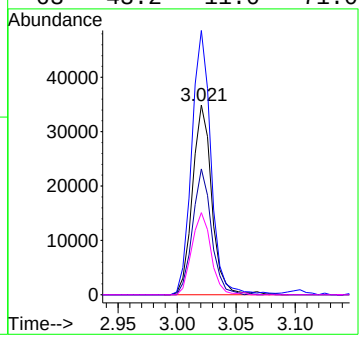


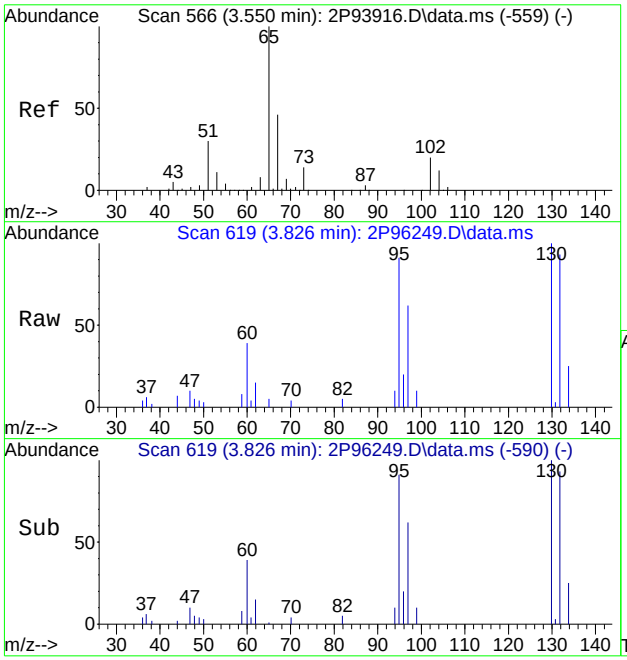


#32
cis-1,2-Dichloroethene
Concen: 12.38 ug/L
RT: 3.021 min Scan# 465
Delta R.T. -0.005 min
Lab File: 2P96249.D
Acq: 12 Dec 2022 4:41 pm

Tgt Ion: 96 Resp: 39910

Ion	Ratio	Lower	Upper
96	100		
61	139.3	95.0	155.0
98	66.3	33.8	93.8
63	43.2	11.0	71.0

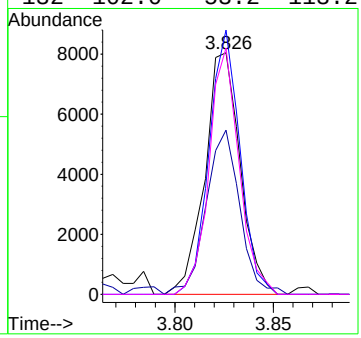




#53
Trichloroethene
Concen: 3.03 ug/L
RT: 3.826 min Scan# 619
Delta R.T. 0.000 min
Lab File: 2P96249.D
Acq: 12 Dec 2022 4:41 pm

Tgt Ion: 95 Resp: 10096

Ion	Ratio	Lower	Upper
95	100		
130	109.5	62.2	122.2
97	68.0	34.9	94.9
132	102.0	53.2	113.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96251.D
Acq On : 12 Dec 2022 5:12 pm
Operator : courtnef
Sample : FC1200-18 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 65 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:38:30 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

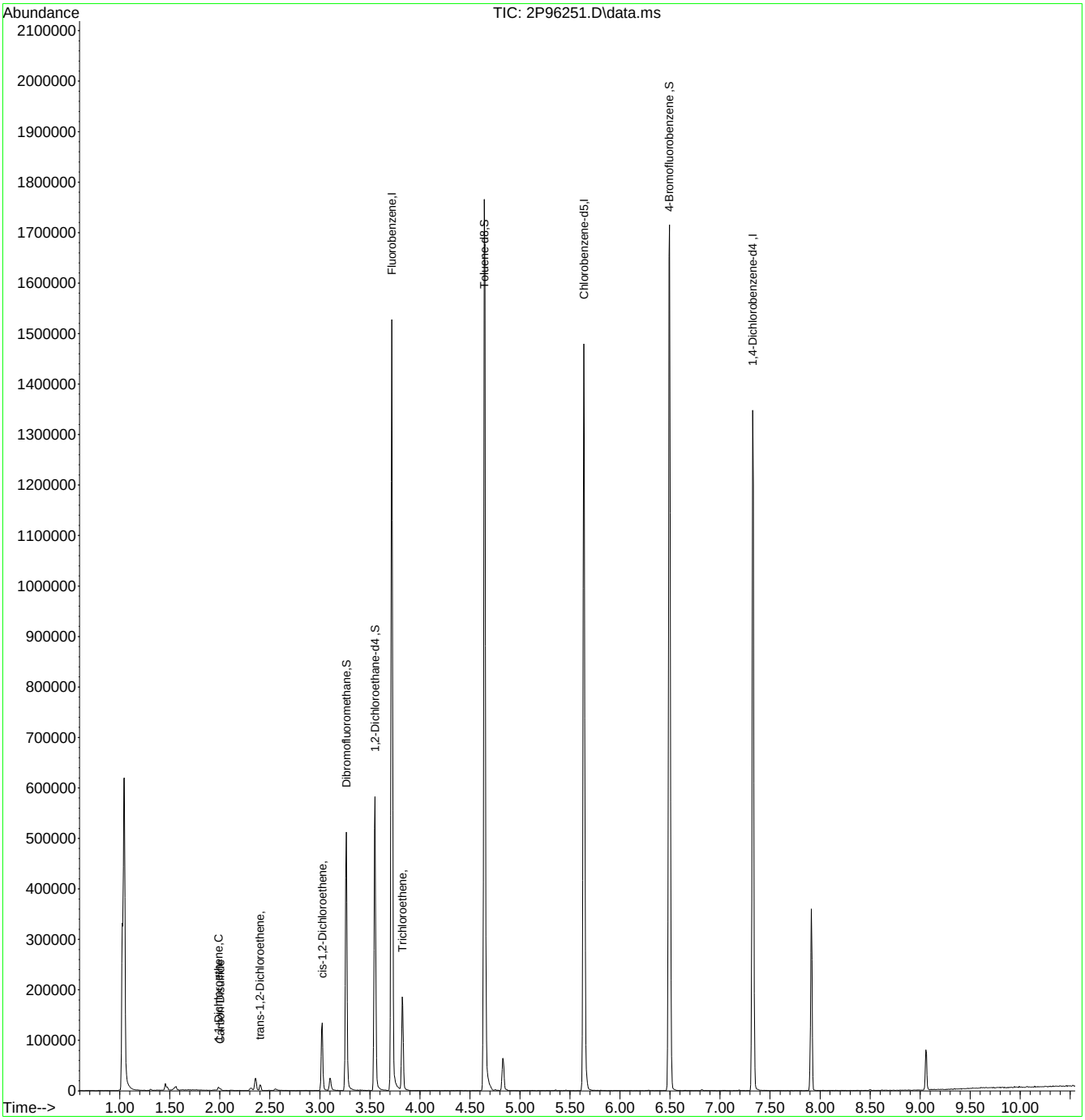
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.718	96	805723	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.638	117	549733	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.327	152	235368	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.263	113	179323	53.26	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.52%			
49) 1,2-Dichloroethane-d4	3.551	65	257316	53.12	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.24%			
63) Toluene-d8	4.644	98	773063	49.46	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.92%			
86) 4-Bromofluorobenzene	6.490	174	198696	55.08	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 110.16%			
Target Compounds						Qvalue
12) 1,1-Dichloroethene	1.987	61	2134	0.48	ug/L	92
14) Carbon Disulfide	2.003	76	3173	0.38	ug/L	95
21) trans-1,2-Dichloroethene	2.400	61	3968	0.89	ug/L	93
32) cis-1,2-Dichloroethene	3.023	96	35520	11.06	ug/L	94
53) Trichloroethene	3.823	95	40480	12.17	ug/L	97

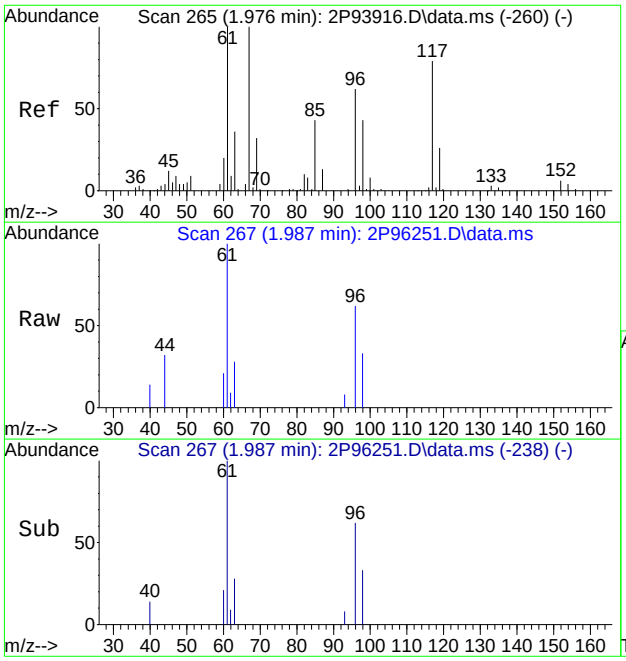
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96251.D
Acq On : 12 Dec 2022 5:12 pm
Operator : courtnef
Sample : FC1200-18 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 65 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:38:30 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

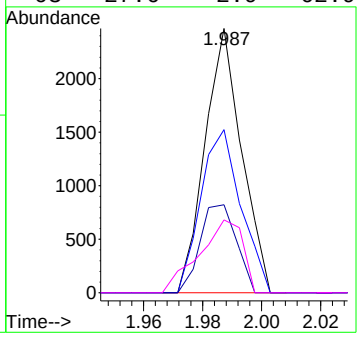


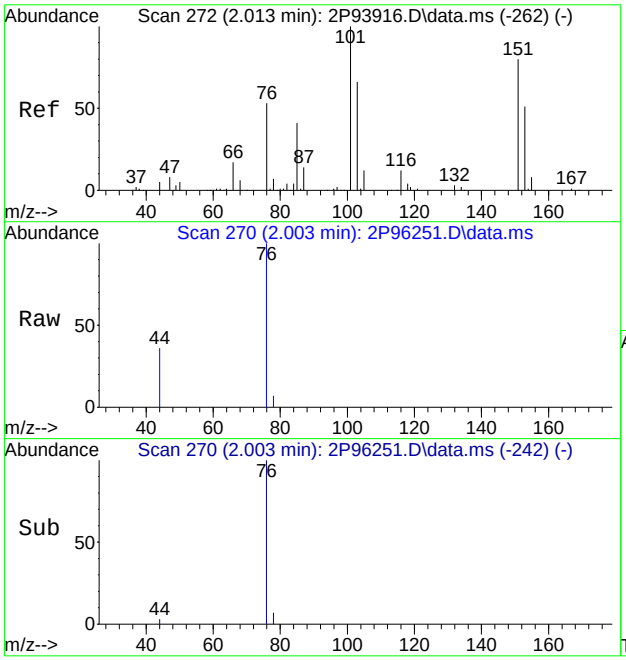


#12
1,1-Dichloroethene
Concen: 0.48 ug/L
RT: 1.987 min Scan# 267
Delta R.T. 0.003 min
Lab File: 2P96251.D
Acq: 12 Dec 2022 5:12 pm

Tgt Ion: 61 Resp: 2134

Ion	Ratio	Lower	Upper
61	100		
96	61.7	27.4	87.4
98	33.3	9.9	69.9
63	27.6	2.9	62.9

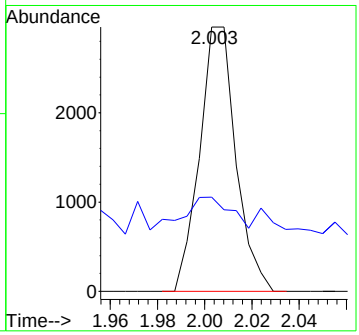


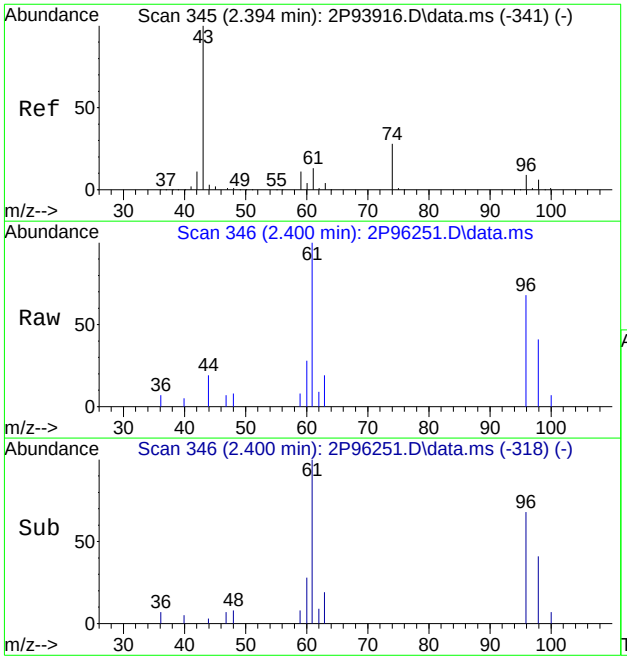


#14
Carbon Disulfide
Concen: 0.38 ug/L
RT: 2.003 min Scan# 270
Delta R.T. -0.002 min
Lab File: 2P96251.D
Acq: 12 Dec 2022 5:12 pm

Tgt Ion: 76 Resp: 3173

Ion	Ratio	Lower	Upper
76	100		
44	12.2	0.0	44.4

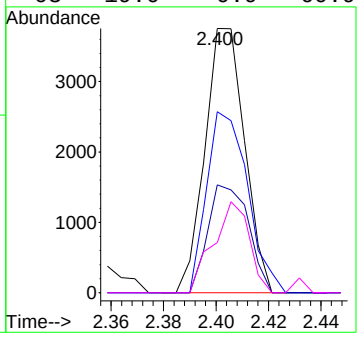


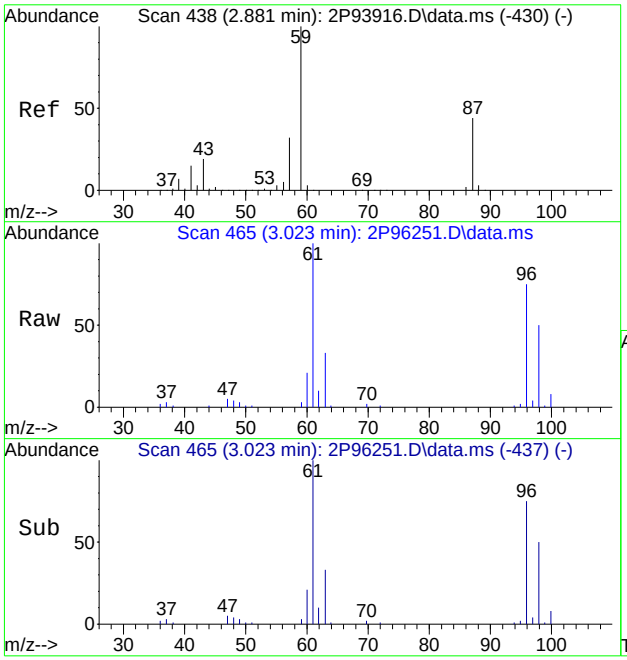


#21
trans-1,2-Dichloroethene
Concen: 0.89 ug/L
RT: 2.400 min Scan# 346
Delta R.T. -0.002 min
Lab File: 2P96251.D
Acq: 12 Dec 2022 5:12 pm

Tgt Ion: 61 Resp: 3968

Ion	Ratio	Lower	Upper
61	100		
96	68.5	35.0	95.0
98	40.8	10.9	70.9
63	19.0	0.9	60.9

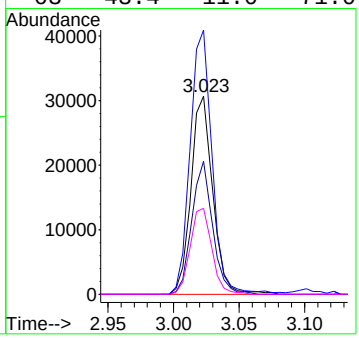


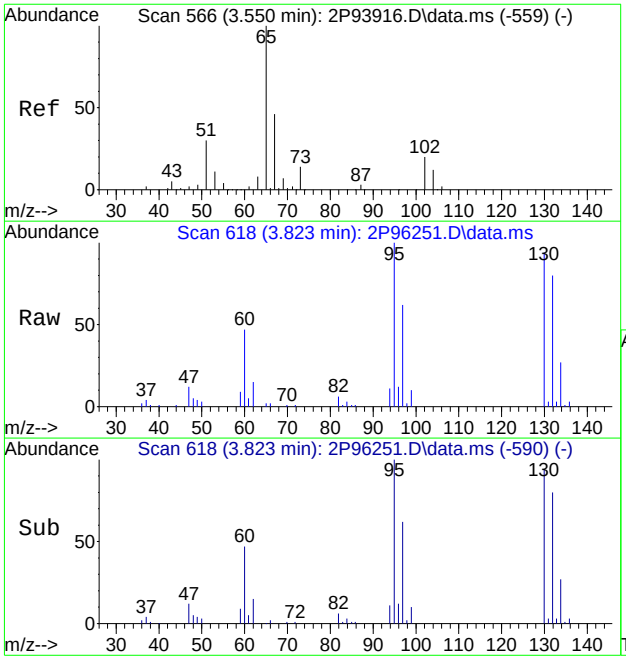


#32
cis-1,2-Dichloroethene
Concen: 11.06 ug/L
RT: 3.023 min Scan# 465
Delta R.T. -0.002 min
Lab File: 2P96251.D
Acq: 12 Dec 2022 5:12 pm

Tgt Ion: 96 Resp: 35520

Ion	Ratio	Lower	Upper
96	100		
61	133.4	95.0	155.0
98	67.2	33.8	93.8
63	43.4	11.0	71.0

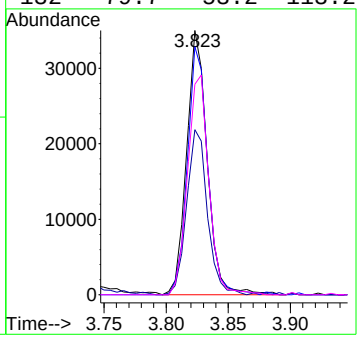




#53
Trichloroethene
Concen: 12.17 ug/L
RT: 3.823 min Scan# 618
Delta R.T. -0.002 min
Lab File: 2P96251.D
Acq: 12 Dec 2022 5:12 pm

Tgt Ion: 95 Resp: 40480

Ion	Ratio	Lower	Upper
95	100		
130	93.8	62.2	122.2
97	62.5	34.9	94.9
132	79.7	53.2	113.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96253.D
Acq On : 12 Dec 2022 5:44 pm
Operator : courtnef
Sample : FC1200-19 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 66 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:39:02 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

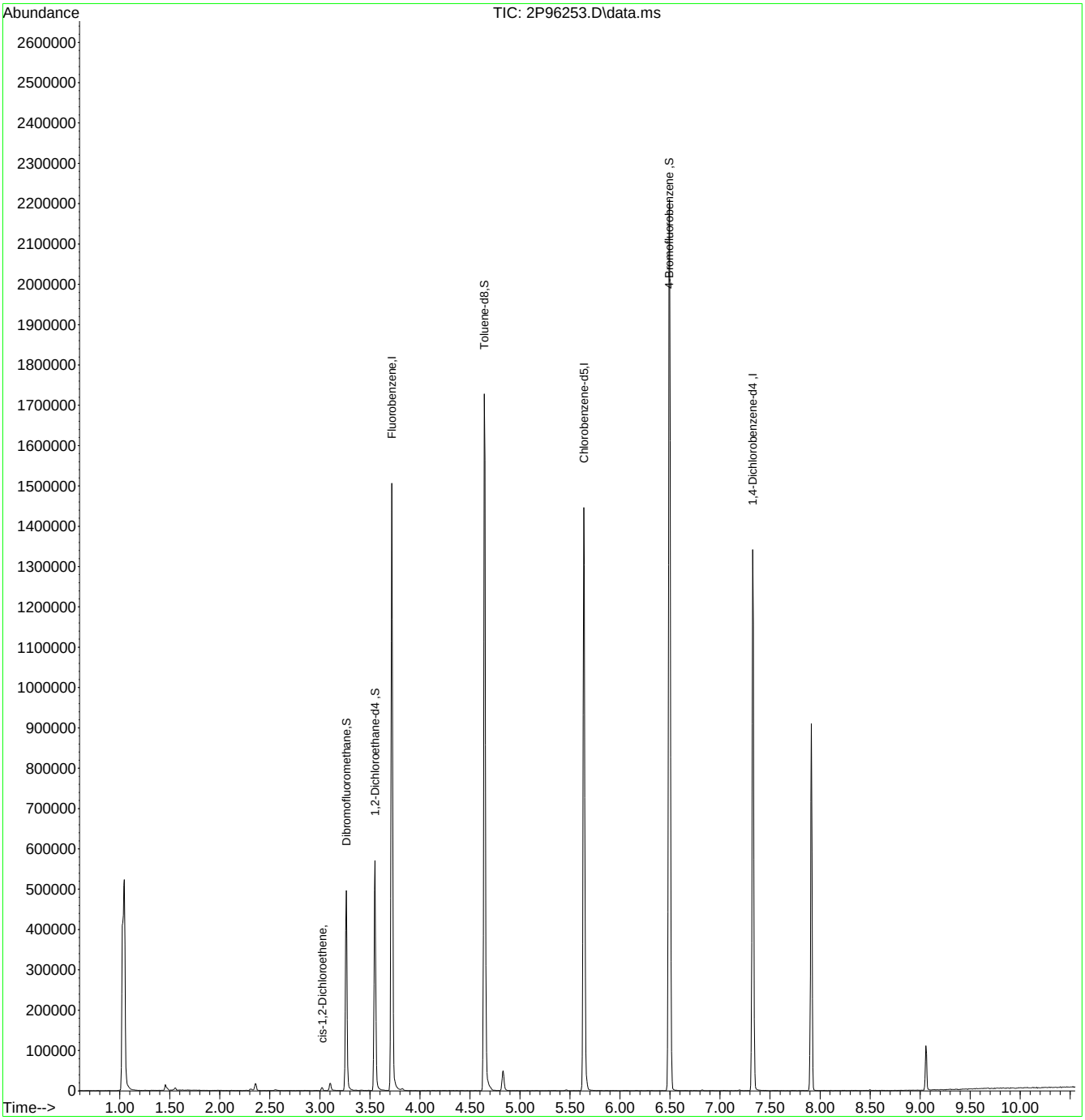
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.719	96	785244	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.638	117	531663	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.327	152	227003	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.264	113	176247	53.71	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.42%			
49) 1,2-Dichloroethane-d4	3.551	65	250117	52.98	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.96%			
63) Toluene-d8	4.644	98	749387	49.57	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.14%			
86) 4-Bromofluorobenzene	6.490	174	197900	56.88	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 113.76%			
Target Compounds						Qvalue
32) cis-1,2-Dichloroethene	3.023	96	2524	0.81	ug/L	90

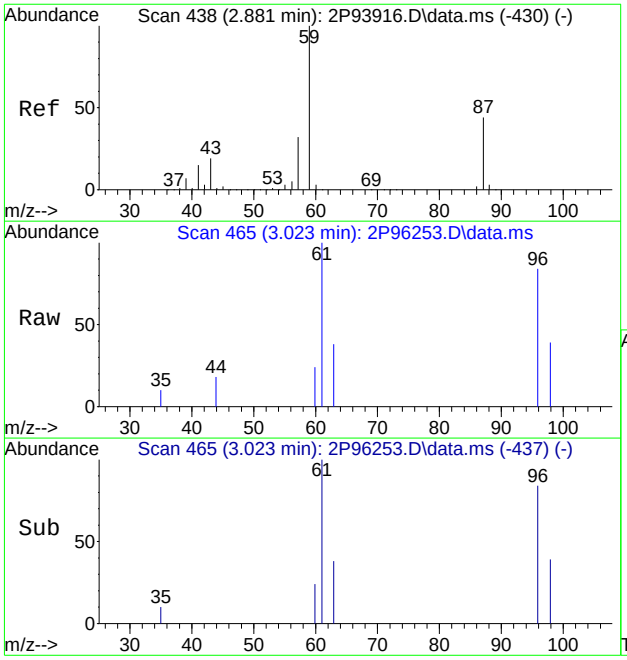
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96253.D
Acq On : 12 Dec 2022 5:44 pm
Operator : courtnef
Sample : FC1200-19 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 66 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:39:02 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

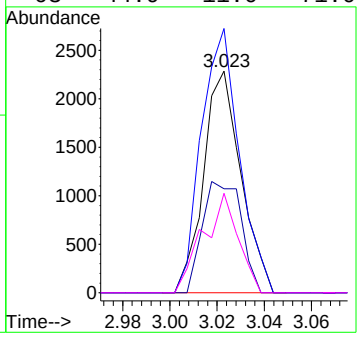




#32
cis-1,2-Dichloroethene
Concen: 0.81 ug/L
RT: 3.023 min Scan# 465
Delta R.T. -0.002 min
Lab File: 2P96253.D
Acq: 12 Dec 2022 5:44 pm

Tgt Ion: 96 Resp: 2524

Ion	Ratio	Lower	Upper
96	100		
61	119.3	95.0	155.0
98	47.0	33.8	93.8
63	44.9	11.0	71.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96255.D
Acq On : 12 Dec 2022 6:16 pm
Operator : courtnef
Sample : FC1200-20 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 67 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:50:15 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

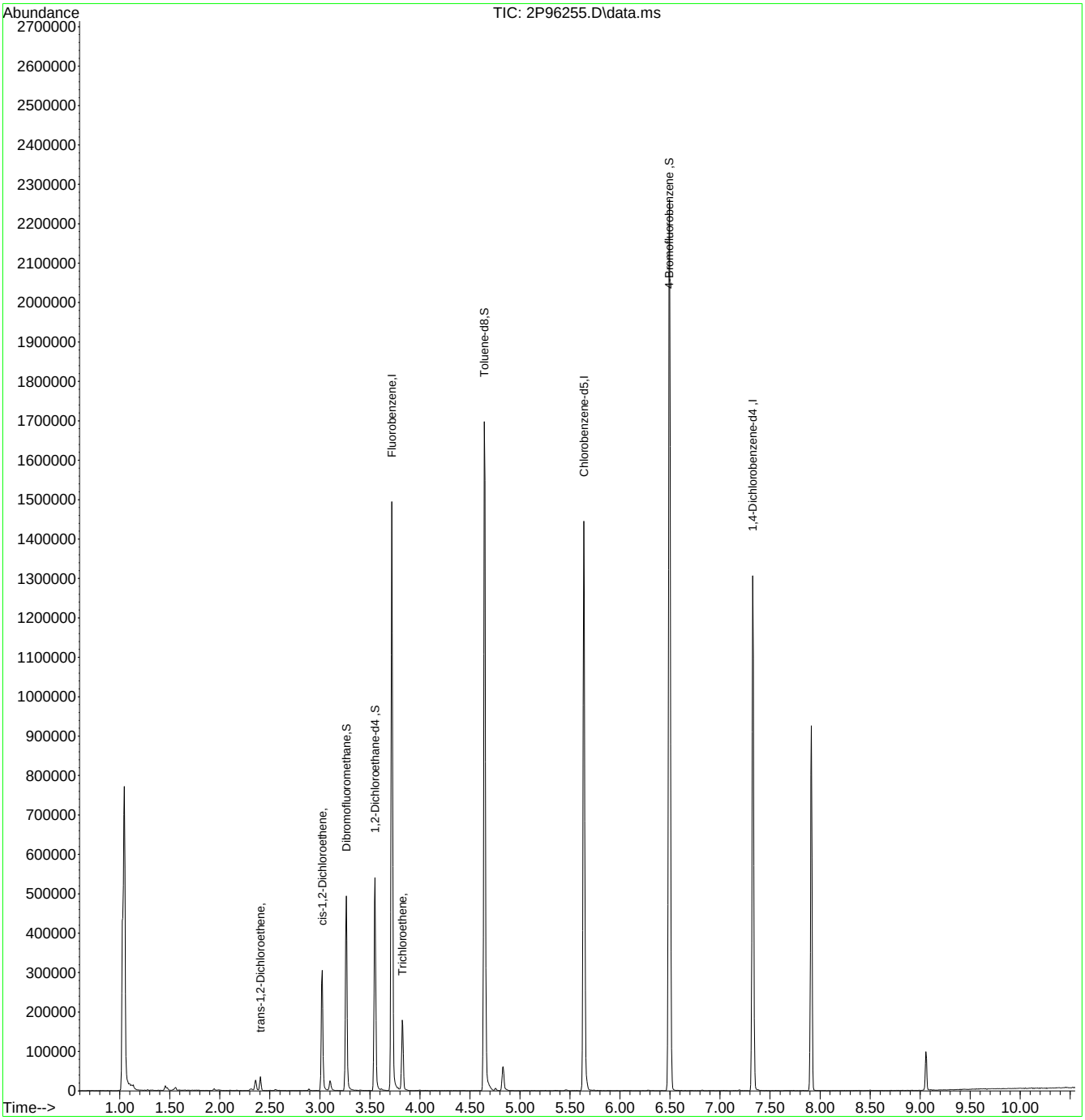
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.719	96	772544	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.638	117	526736	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.327	152	223436	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.264	113	174291	53.99	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.98%			
49) 1,2-Dichloroethane-d4	3.551	65	245389	52.83	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.66%			
63) Toluene-d8	4.644	98	740927	49.47	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.94%			
86) 4-Bromofluorobenzene	6.491	174	192816	56.30	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 112.60%			
Target Compounds						Qvalue
21) trans-1,2-Dichloroethene	2.406	61	10998	2.58	ug/L	93
32) cis-1,2-Dichloroethene	3.023	96	79518	25.81	ug/L	94
53) Trichloroethene	3.823	95	38237	11.99	ug/L	98

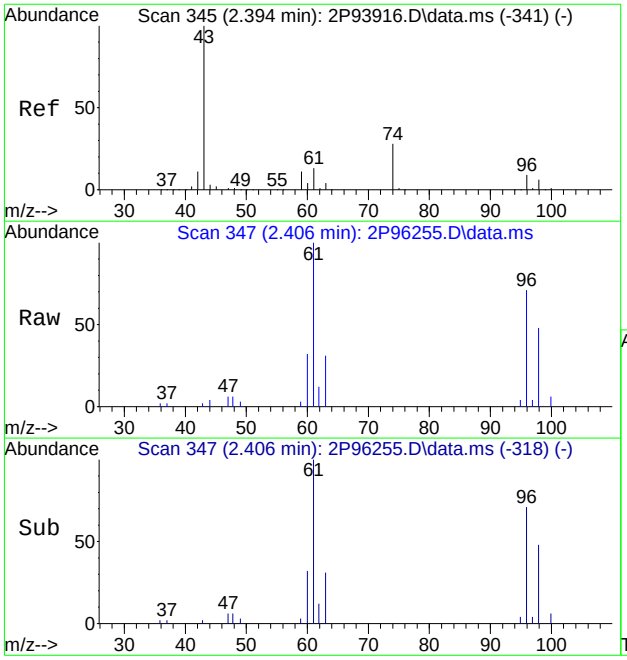
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96255.D
Acq On : 12 Dec 2022 6:16 pm
Operator : courtnef
Sample : FC1200-20 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 67 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:50:15 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

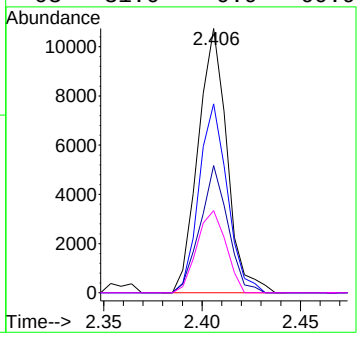


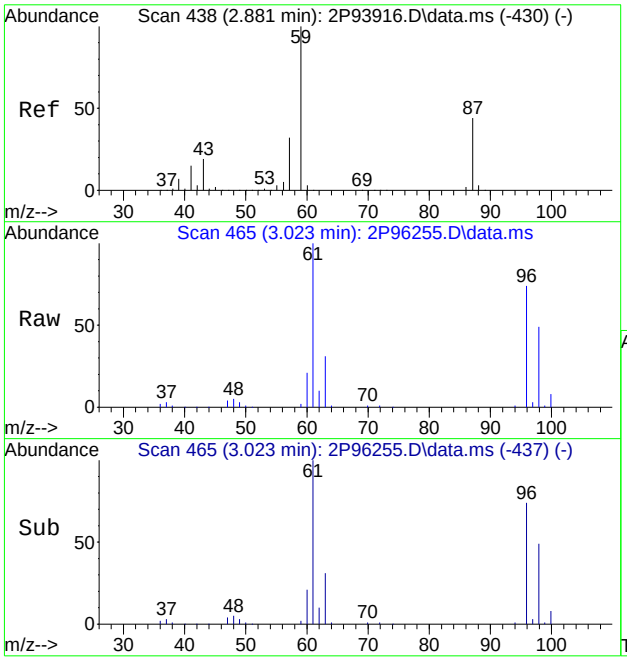


#21
trans-1,2-Dichloroethene
Concen: 2.58 ug/L
RT: 2.406 min Scan# 347
Delta R.T. 0.003 min
Lab File: 2P96255.D
Acq: 12 Dec 2022 6:16 pm

Tgt Ion: 61 Resp: 10998

Ion	Ratio	Lower	Upper
61	100		
96	71.4	35.0	95.0
98	48.2	10.9	70.9
63	31.0	0.9	60.9

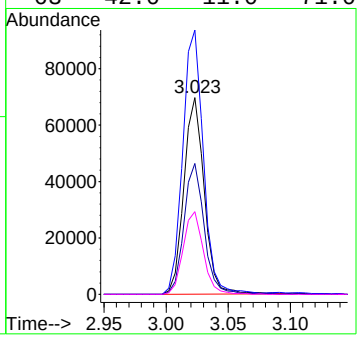


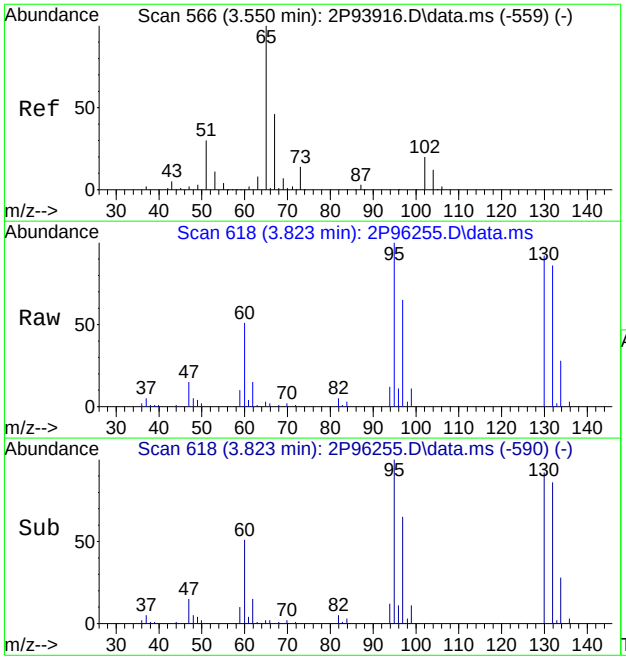


#32
cis-1,2-Dichloroethene
Concen: 25.81 ug/L
RT: 3.023 min Scan# 465
Delta R.T. -0.002 min
Lab File: 2P96255.D
Acq: 12 Dec 2022 6:16 pm

Tgt Ion: 96 Resp: 79518

Ion	Ratio	Lower	Upper
96	100		
61	134.3	95.0	155.0
98	66.5	33.8	93.8
63	42.0	11.0	71.0

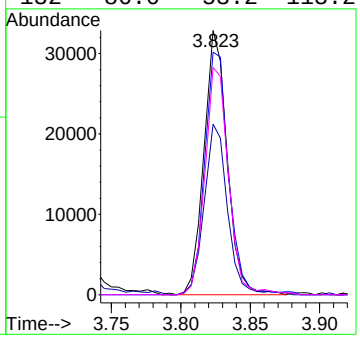




#53
Trichloroethene
Concen: 11.99 ug/L
RT: 3.823 min Scan# 618
Delta R.T. -0.002 min
Lab File: 2P96255.D
Acq: 12 Dec 2022 6:16 pm

Tgt Ion: 95 Resp: 38237

Ion	Ratio	Lower	Upper
95	100		
130	91.8	62.2	122.2
97	63.9	34.9	94.9
132	86.0	53.2	113.2



Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
12/16/22 14:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96257.D
Acq On : 12 Dec 2022 6:47 pm
Operator : courtnef
Sample : FC1200-21, 2X Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,2
ALS Vial : 68 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:58:47 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.721	96	749493	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.640	117	510985	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	216866	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.266	113	167725	53.55	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.10%			
49) 1,2-Dichloroethane-d4	3.548	65	239689	53.19	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.38%			
63) Toluene-d8	4.646	98	721443	49.65	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.30%			
86) 4-Bromofluorobenzene	6.493	174	175999	52.95	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.90%			
Target Compounds						Qvalue
18) Methylene Chloride	2.303	49	5091	1.12	ug/L	91
21) trans-1,2-Dichloroethene	2.408	61	3438	0.83	ug/L	95
25) Acetonitrile	2.554	41	8158m	11.79	ug/L	
32) cis-1,2-Dichloroethene	3.020	96	73142	24.47	ug/L	96
53) Trichloroethene	3.825	95	1694m	0.55	ug/L	

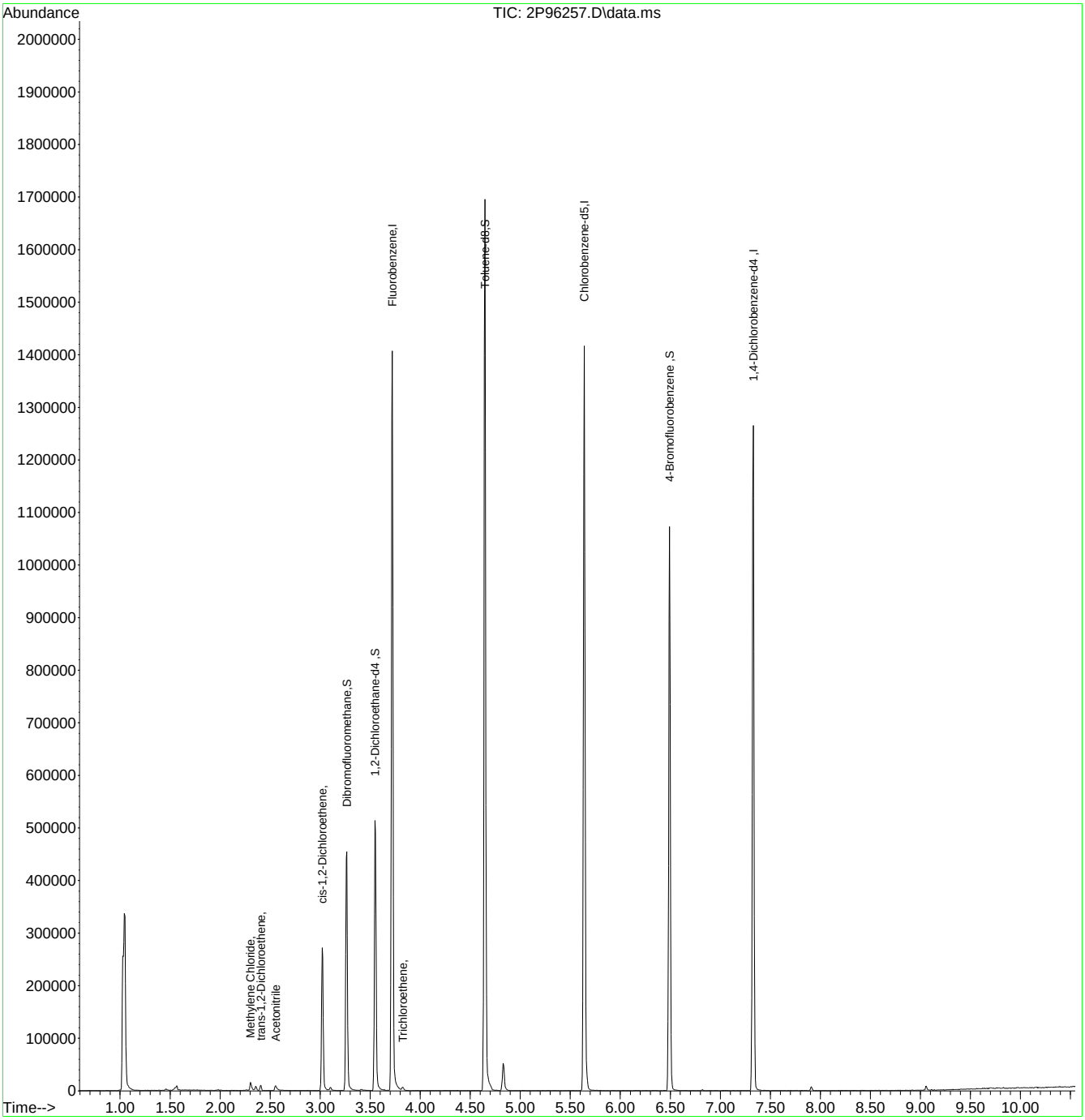
(#) = qualifier out of range (m) = manual integration (+) = signals summed

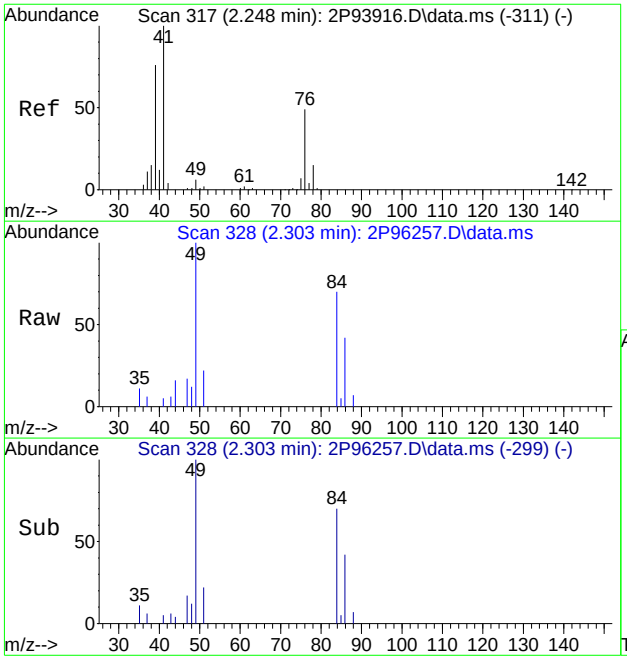
7.1.27
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96257.D
Acq On : 12 Dec 2022 6:47 pm
Operator : courtnef
Sample : FC1200-21, 2X Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,2
ALS Vial : 68 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:58:47 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

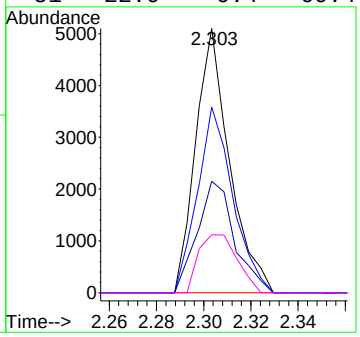


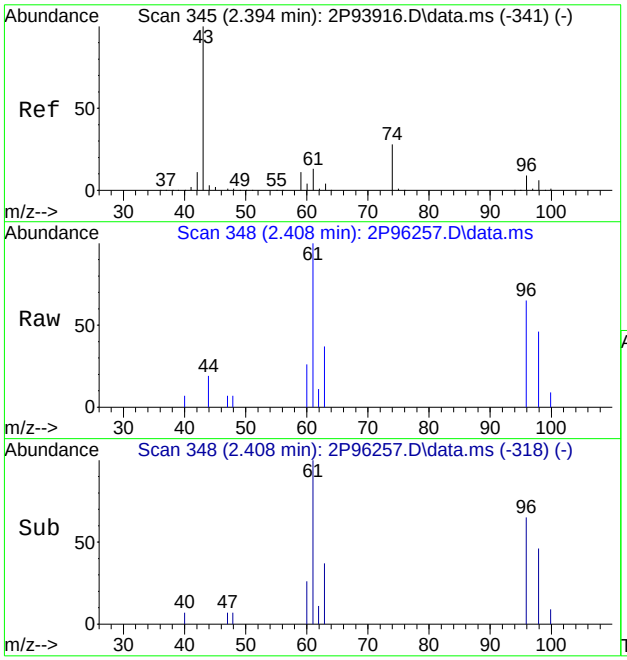


#18
Methylene Chloride
Concen: 1.12 ug/L
RT: 2.303 min Scan# 328
Delta R.T. 0.000 min
Lab File: 2P96257.D
Acq: 12 Dec 2022 6:47 pm

Tgt Ion: 49 Resp: 5091

Ion	Ratio	Lower	Upper
49	100		
84	70.3	44.9	104.9
86	42.2	20.2	80.2
51	22.0	0.4	60.4

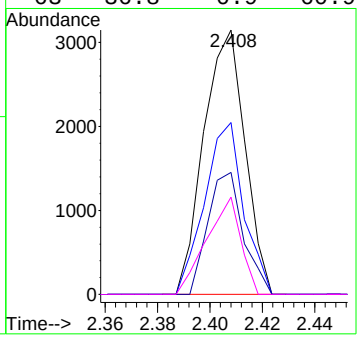


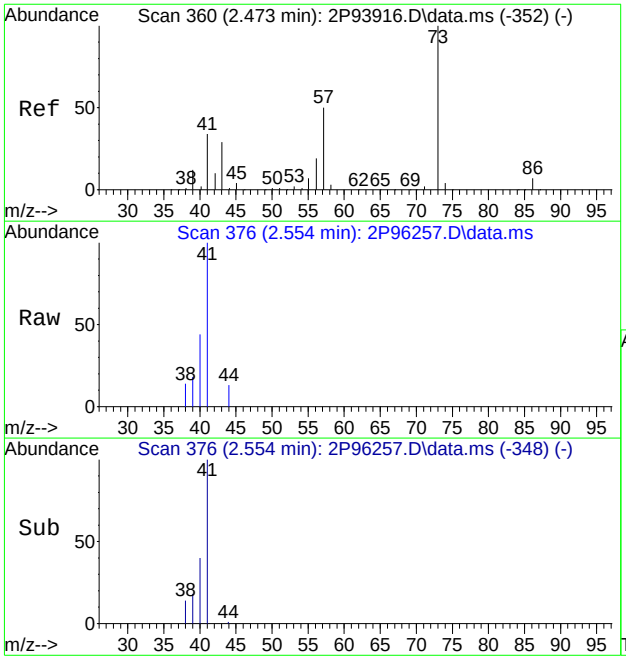


#21
trans-1,2-Dichloroethene
Concen: 0.83 ug/L
RT: 2.408 min Scan# 348
Delta R.T. 0.005 min
Lab File: 2P96257.D
Acq: 12 Dec 2022 6:47 pm

Tgt Ion: 61 Resp: 3438

Ion	Ratio	Lower	Upper
61	100		
96	65.0	35.0	95.0
98	46.2	10.9	70.9
63	36.8	0.9	60.9

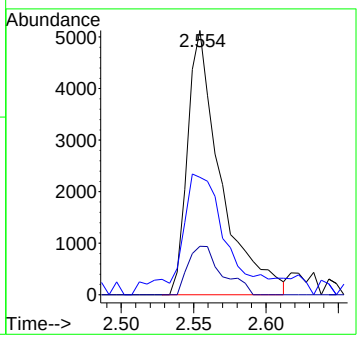


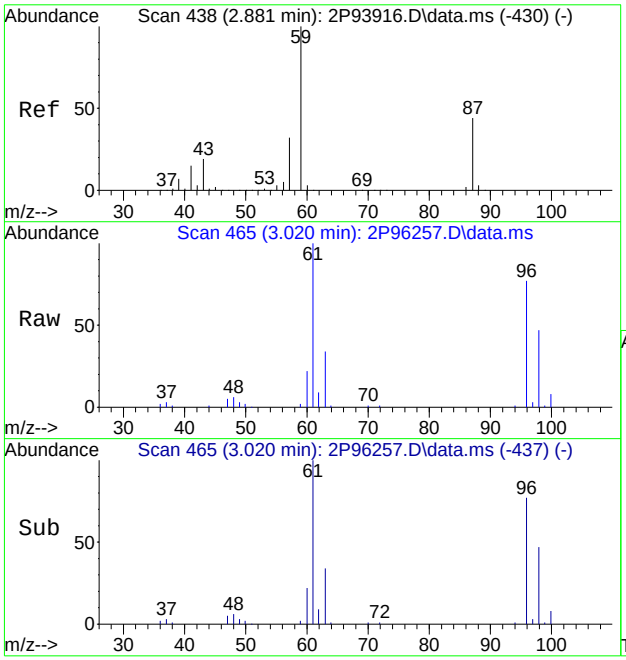


#25
Acetonitrile
Concen: 11.79 ug/L m
RT: 2.554 min Scan# 376
Delta R.T. -0.005 min
Lab File: 2P96257.D
Acq: 12 Dec 2022 6:47 pm

Tgt Ion: 41 Resp: 8158

Ion	Ratio	Lower	Upper
41	100		
40	44.4	33.9	73.9
39	18.4	0.0	39.6

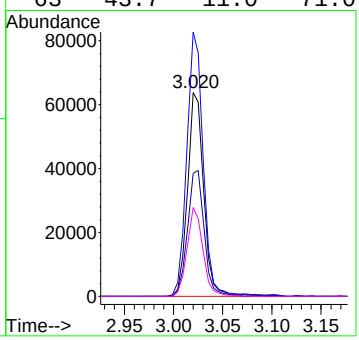


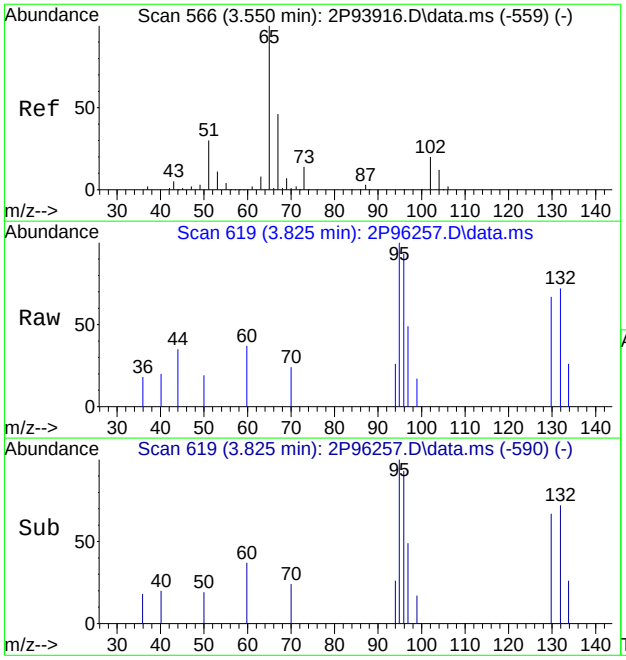


#32
cis-1,2-Dichloroethene
Concen: 24.47 ug/L
RT: 3.020 min Scan# 465
Delta R.T. -0.005 min
Lab File: 2P96257.D
Acq: 12 Dec 2022 6:47 pm

Tgt Ion: 96 Resp: 73142

Ion	Ratio	Lower	Upper
96	100		
61	129.8	95.0	155.0
98	60.4	33.8	93.8
63	43.7	11.0	71.0

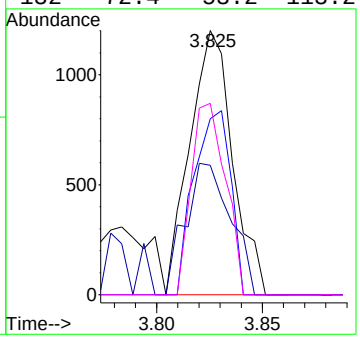




#53
Trichloroethene
Concen: 0.55 ug/L m
RT: 3.825 min Scan# 619
Delta R.T. -0.000 min
Lab File: 2P96257.D
Acq: 12 Dec 2022 6:47 pm

Tgt Ion: 95 Resp: 1694

Ion	Ratio	Lower	Upper
95	100		
130	66.6	62.2	122.2
97	49.0	34.9	94.9
132	72.4	53.2	113.2



Manual Integration Approval Summary

Sample Number: FC1200-21
Lab FileID: 2P96257.D
Injection Time: 12/12/22 18:47

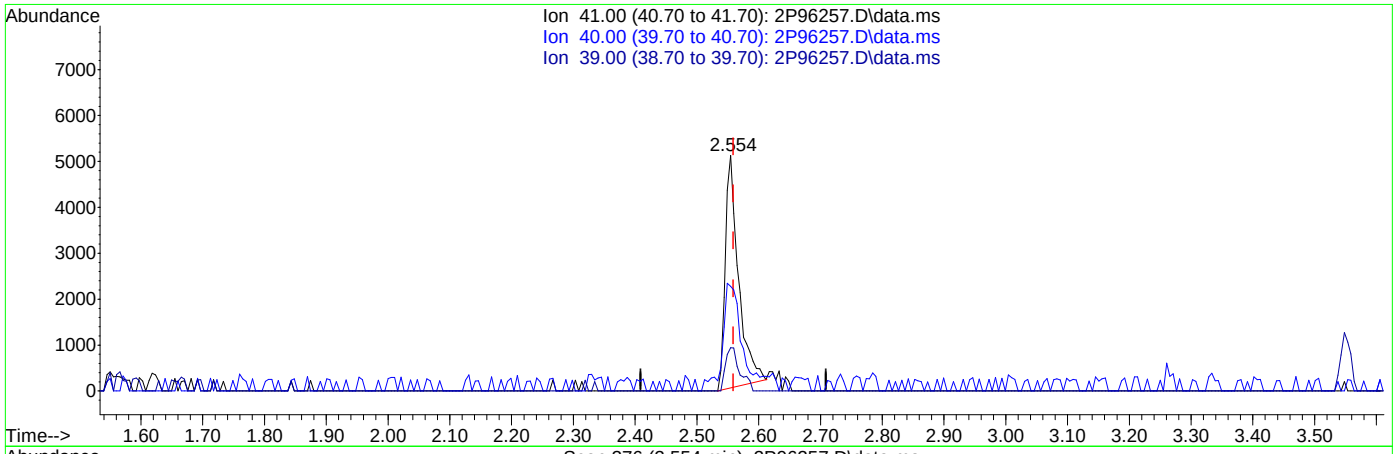
Method: SW846 8260D
Analyst approved: 12/13/22 01:19 Jennifer Fereira
Supervisor approved: 12/16/22 14:38 Karen Watson

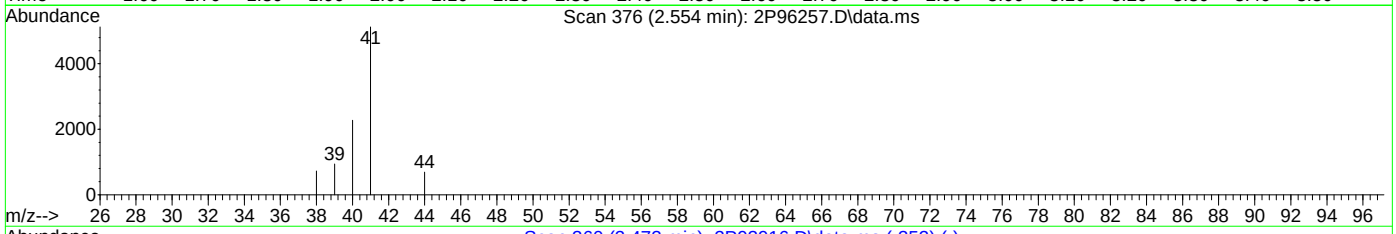
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.55	Poor instrument integration
Trichloroethylene	79-01-6		3.83	Missed peak

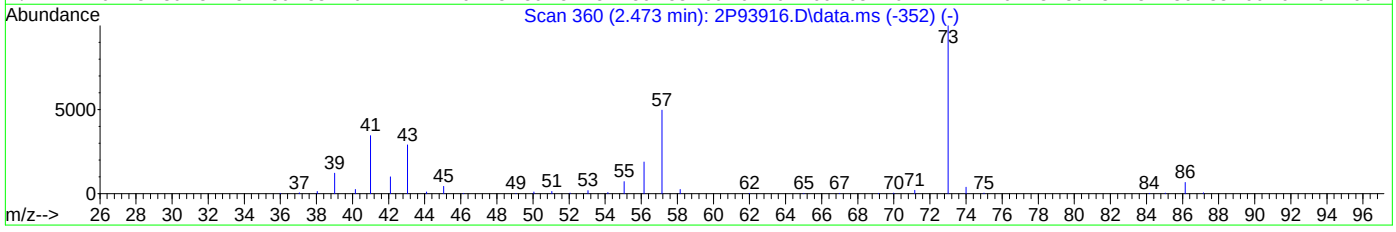
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96257.D
Acq On : 12 Dec 2022 6:47 pm
Operator : courtnef
Sample : FC1200-21, 2X Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,2
ALS Vial : 68 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:07:03 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration







TIC: 2P96257.D\data.ms

(25) Acetonitrile

2.554min (-0.005) 10.94ug/L

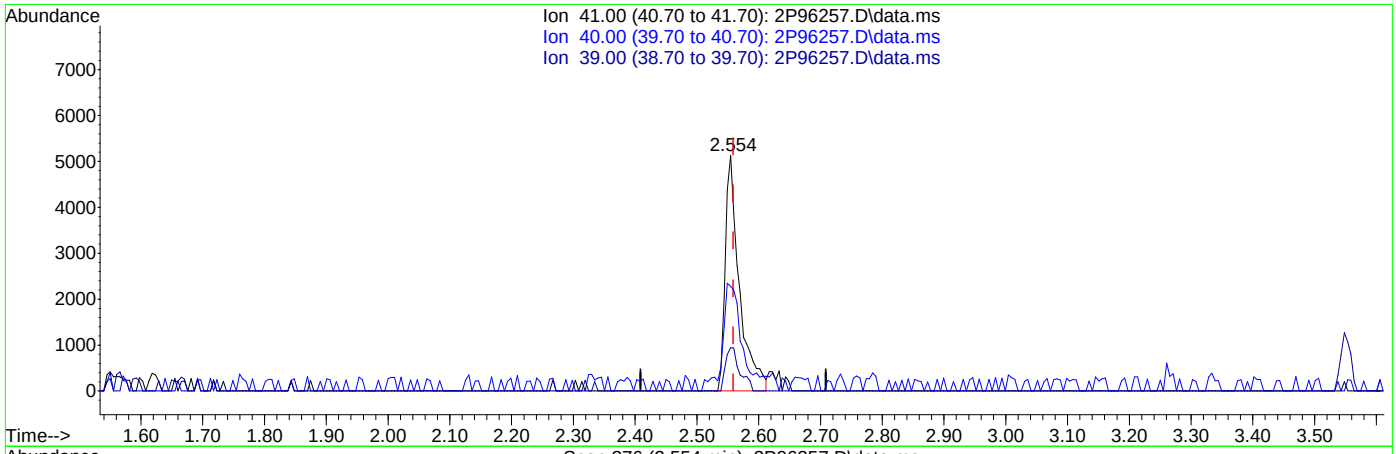
response 7569

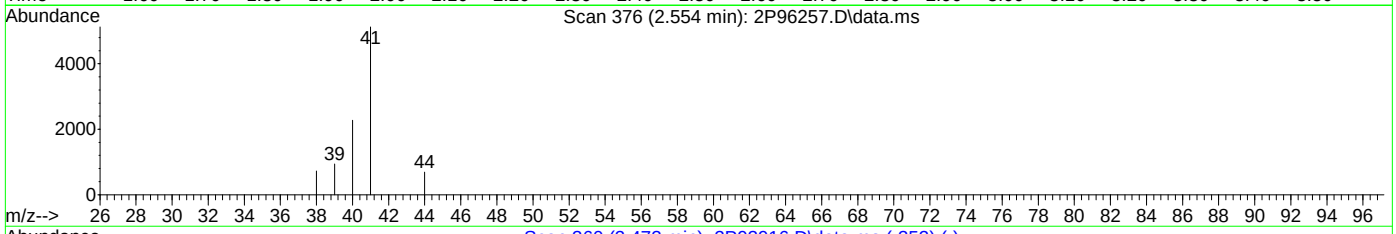
Ion	Exp%	Act%
41.00	100	100
40.00	53.90	40.06
39.00	19.60	18.36
0.00	0.00	0.00

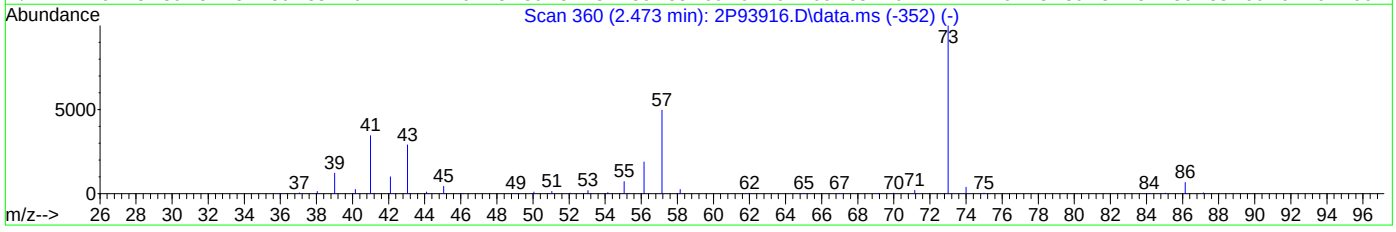
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96257.D
Acq On : 12 Dec 2022 6:47 pm
Operator : courtnef
Sample : FC1200-21, 2X Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,2
ALS Vial : 68 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:07:03 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration







TIC: 2P96257.D\data.ms

(25) Acetonitrile

2.554min (-0.005) 11.79ug/L m

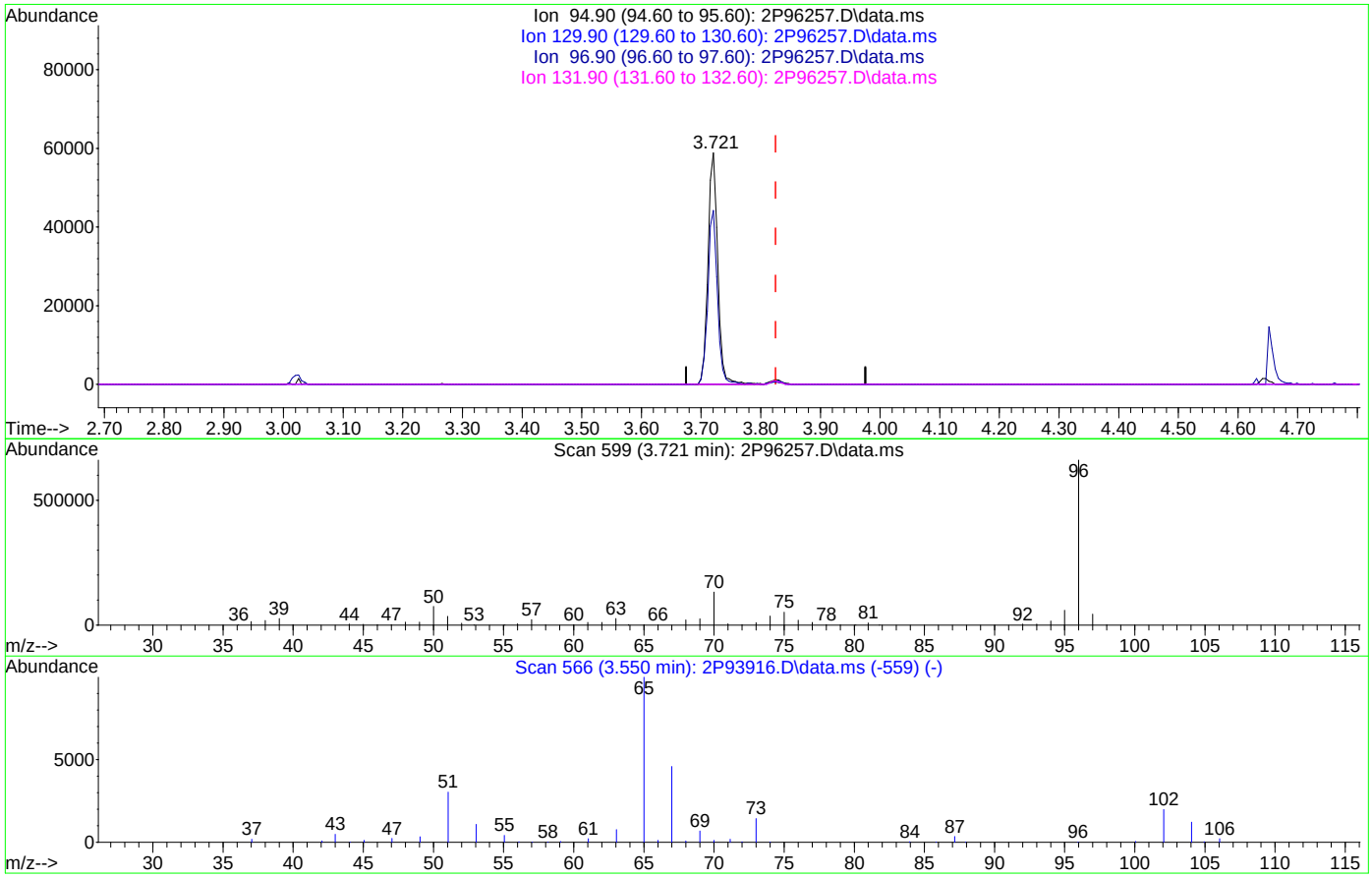
response 8158

Ion	Exp%	Act%
41.00	100	100
40.00	53.90	44.41
39.00	19.60	18.36
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96257.D
Acq On : 12 Dec 2022 6:47 pm
Operator : courtnef
Sample : FC1200-21, 2X Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,2
ALS Vial : 68 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:07:03 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



TIC: 2P96257.D\data.ms

(53) Trichloroethene ( )

3.721min (-0.105) 21.66ug/L

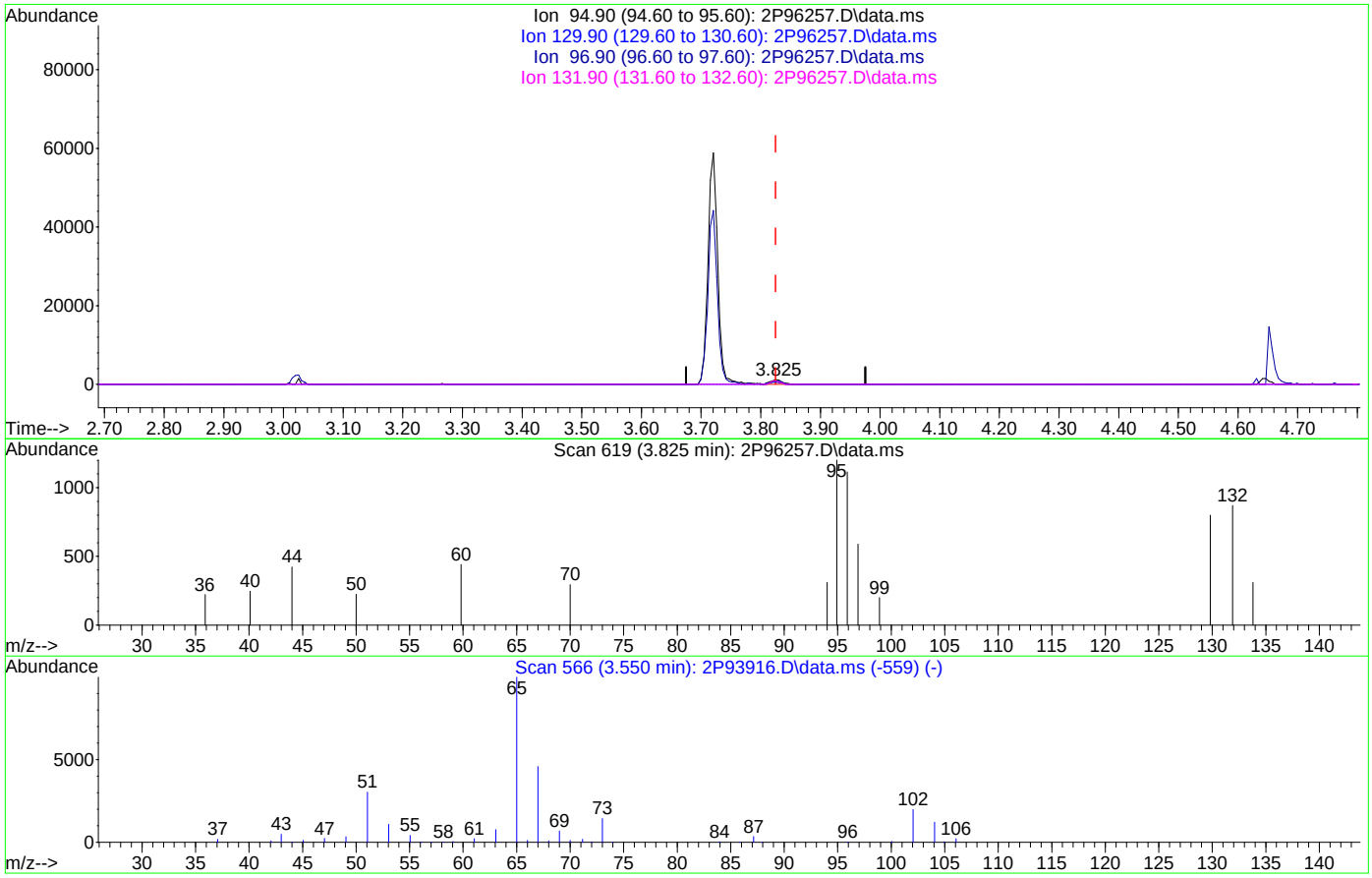
response 67009

Ion	Exp%	Act%
94.90	100	100
129.90	92.20	0.00#
96.90	64.90	75.07
131.90	83.20	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96257.D
Acq On : 12 Dec 2022 6:47 pm
Operator : courtnef
Sample : FC1200-21, 2X Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,2
ALS Vial : 68 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:07:03 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



TIC: 2P96257.D\data.ms

(53) Trichloroethene ( )

3.825min (-0.000) 0.55ug/L m

response 1694

Ion	Exp%	Act%
94.90	100	100
129.90	92.20	66.56
96.90	64.90	49.00
131.90	83.20	72.38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42438.d
Acq On : 27 Dec 2022 2:35 pm
Operator : joannel
Sample : FC1200-21
Misc : MS52988,V2A1682,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 27 23:08:50 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration

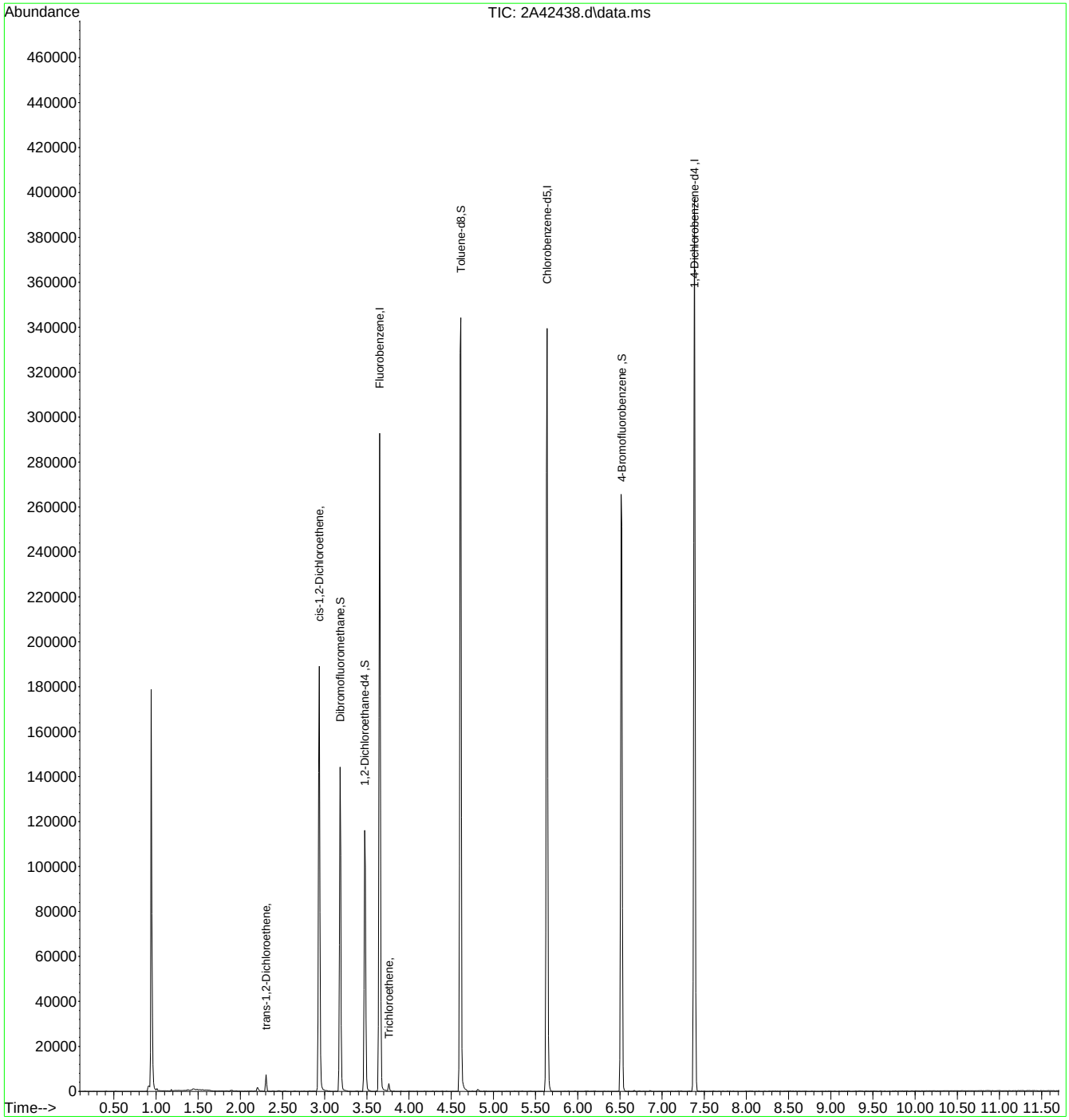
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	166202	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	140575	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.384	152	78322	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	51230	53.20	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.40%			
49) 1,2-Dichloroethane-d4	3.474	65	52318	48.11	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.22%			
63) Toluene-d8	4.613	98	172331	48.66	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.32%			
86) 4-Bromofluorobenzene	6.522	174	64205	48.74	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.48%			
Target Compounds						Qvalue
21) trans-1,2-Dichloroethene	2.304	61	2106	1.80	ug/L	91
32) cis-1,2-Dichloroethene	2.935	96	54193	56.70	ug/L	96
53) Trichloroethene	3.759	95	749	0.74	ug/L	94

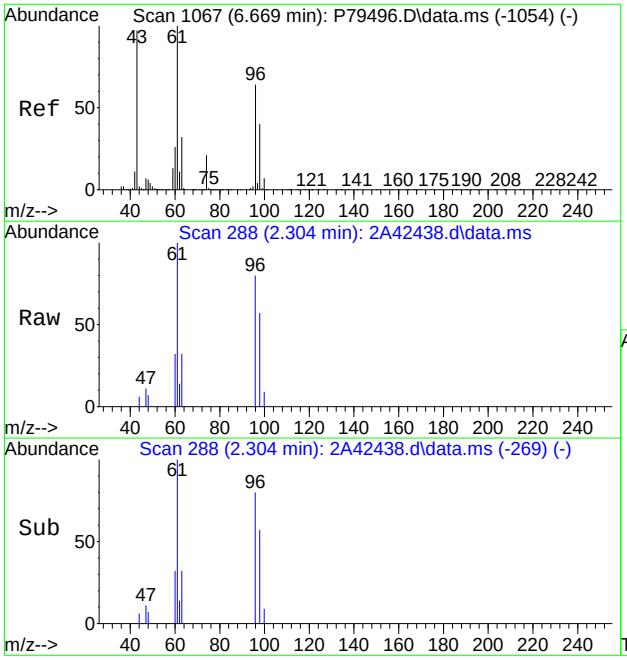
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42438.d
Acq On : 27 Dec 2022 2:35 pm
Operator : joannel
Sample : FC1200-21
Misc : MS52988,V2A1682,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 27 23:08:50 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration

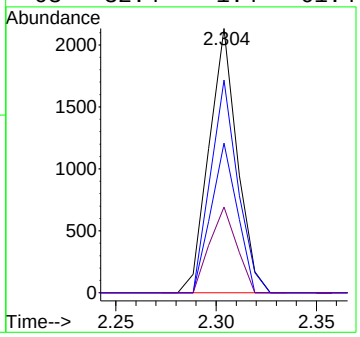


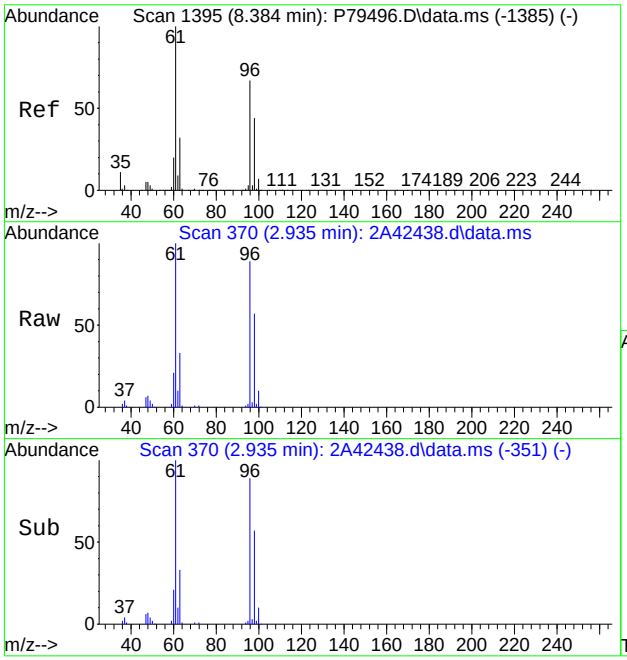


#21
trans-1,2-Dichloroethene
Concen: 1.80 ug/L
RT: 2.304 min Scan# 288
Delta R.T. -0.000 min
Lab File: 2A42438.d
Acq: 27 Dec 2022 2:35 pm

Tgt Ion: 61 Resp: 2106

Ion	Ratio	Lower	Upper
61	100		
96	80.4	43.9	103.9
98	56.7	16.9	76.9
63	32.4	1.4	61.4

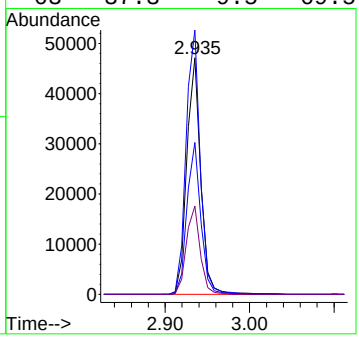


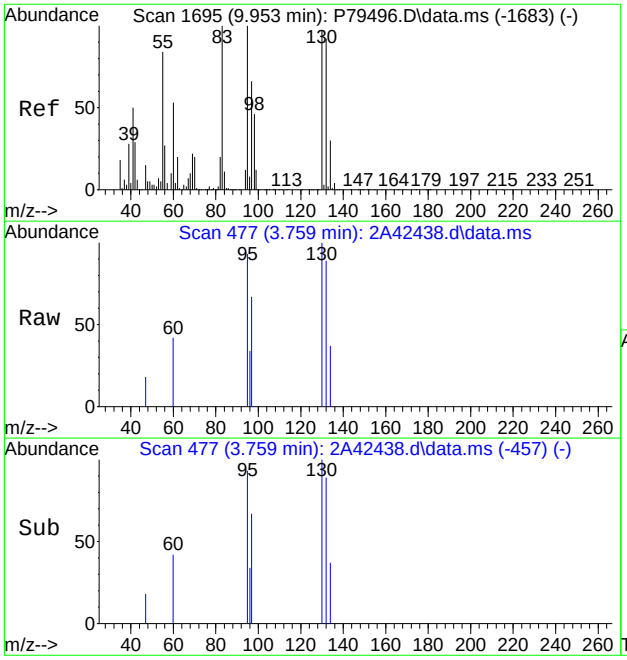


#32
cis-1,2-Dichloroethene
Concen: 56.70 ug/L
RT: 2.935 min Scan# 370
Delta R.T. 0.000 min
Lab File: 2A42438.d
Acq: 27 Dec 2022 2:35 pm

Tgt Ion: 96 Resp: 54193

Ion	Ratio	Lower	Upper
96	100		
61	111.7	89.1	149.1
98	64.1	34.7	94.7
63	37.3	9.5	69.5

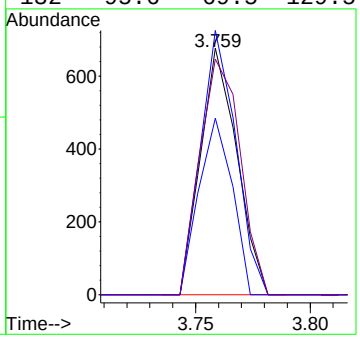




#53
Trichloroethene
Concen: 0.74 ug/L
RT: 3.759 min Scan# 477
Delta R.T. 0.001 min
Lab File: 2A42438.d
Acq: 27 Dec 2022 2:35 pm

Tgt Ion: 95 Resp: 749

Ion	Ratio	Lower	Upper
95	100		
130	107.2	71.8	131.8
97	71.6	33.7	93.7
132	95.6	69.5	129.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96259.D
Acq On : 12 Dec 2022 7:19 pm
Operator : courtnef
Sample : FC1200-22 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 69 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:59:21 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

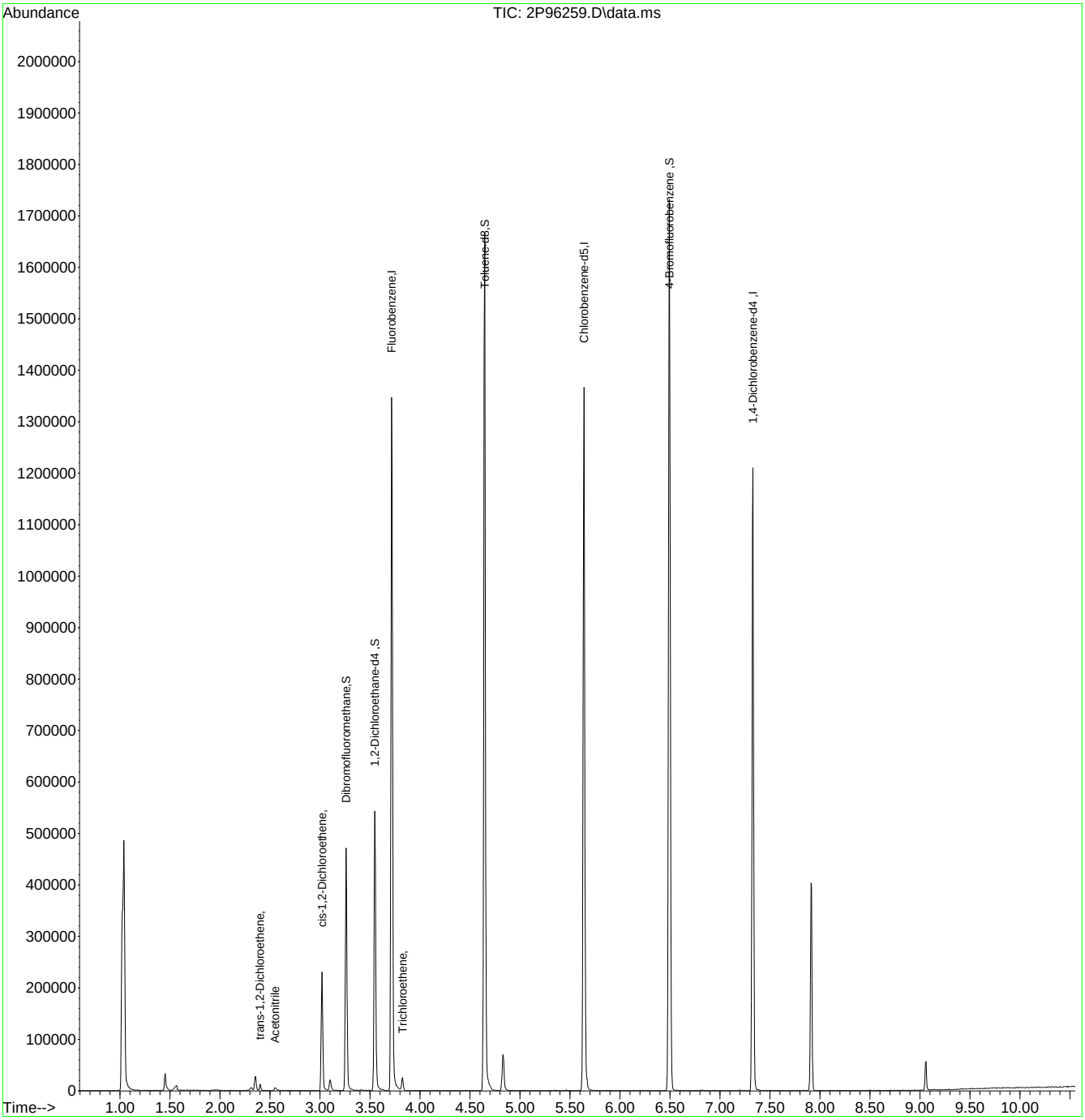
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.716	96	728010	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.640	117	500589	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	210503	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.261	113	163953	53.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.78%			
49) 1,2-Dichloroethane-d4	3.548	65	244538	55.87	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 111.74%			
63) Toluene-d8	4.647	98	701841	49.31	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.62%			
86) 4-Bromofluorobenzene	6.493	174	186096	57.68	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 115.36%			
Target Compounds						Qvalue
21) trans-1,2-Dichloroethene	2.398	61	3845	0.96	ug/L	93
25) Acetonitrile	2.549	41	5028	7.49	ug/L	97
32) cis-1,2-Dichloroethene	3.020	96	58924	20.30	ug/L	96
53) Trichloroethene	3.825	95	5003	1.66	ug/L	96

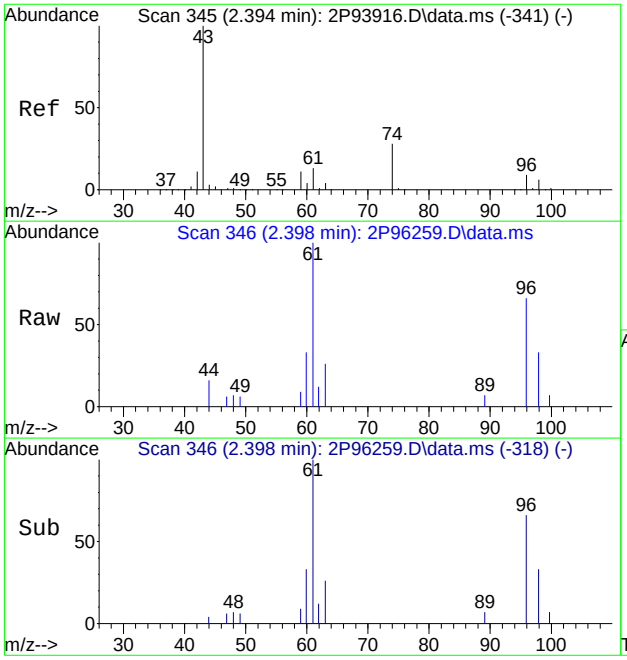
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96259.D
Acq On : 12 Dec 2022 7:19 pm
Operator : courtnef
Sample : FC1200-22 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 69 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:59:21 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

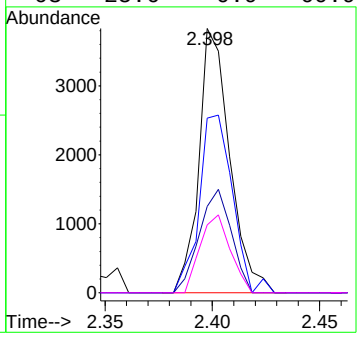


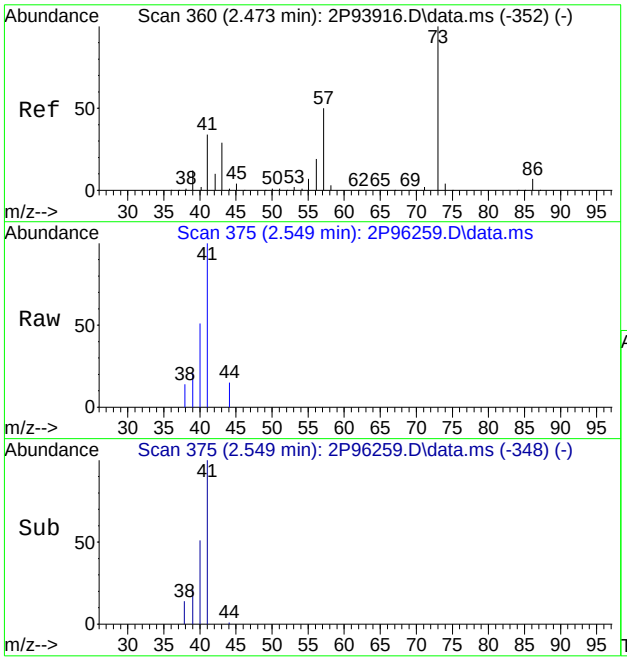


#21
trans-1,2-Dichloroethene
Concen: 0.96 ug/L
RT: 2.398 min Scan# 346
Delta R.T. -0.005 min
Lab File: 2P96259.D
Acq: 12 Dec 2022 7:19 pm

Tgt Ion: 61 Resp: 3845

Ion	Ratio	Lower	Upper
61	100		
96	66.0	35.0	95.0
98	32.7	10.9	70.9
63	25.6	0.9	60.9

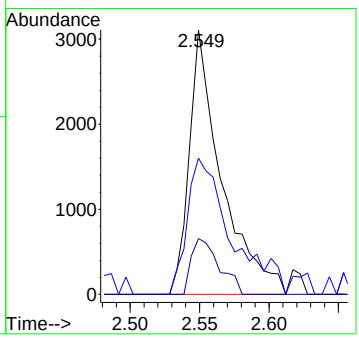


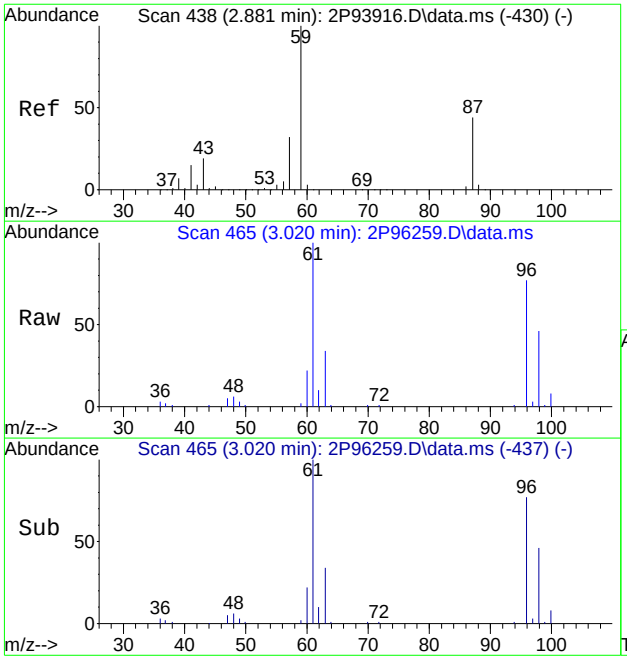


#25
Acetonitrile
Concen: 7.49 ug/L
RT: 2.549 min Scan# 375
Delta R.T. -0.010 min
Lab File: 2P96259.D
Acq: 12 Dec 2022 7:19 pm

Tgt Ion: 41 Resp: 5028

Ion	Ratio	Lower	Upper
41	100		
40	51.5	33.9	73.9
39	21.1	0.0	39.6

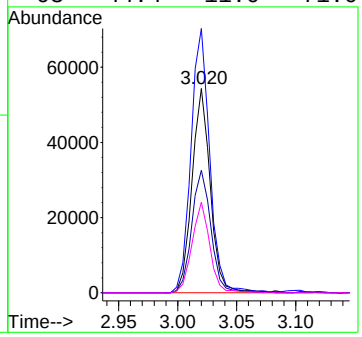


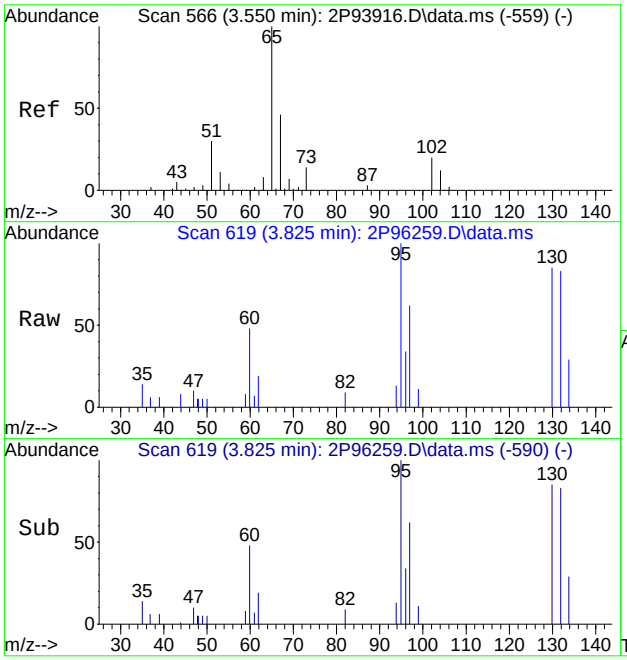


#32
cis-1,2-Dichloroethene
Concen: 20.30 ug/L
RT: 3.020 min Scan# 465
Delta R.T. -0.005 min
Lab File: 2P96259.D
Acq: 12 Dec 2022 7:19 pm

Tgt Ion: 96 Resp: 58924

Ion	Ratio	Lower	Upper
96	100		
61	129.4	95.0	155.0
98	60.0	33.8	93.8
63	44.4	11.0	71.0

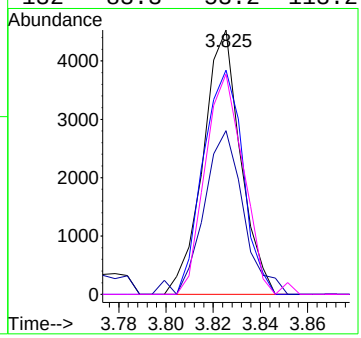




#53
Trichloroethene
Concen: 1.66 ug/L
RT: 3.825 min Scan# 619
Delta R.T. -0.000 min
Lab File: 2P96259.D
Acq: 12 Dec 2022 7:19 pm

Tgt Ion: 95 Resp: 5003

Ion	Ratio	Lower	Upper
95	100		
130	84.8	62.2	122.2
97	61.9	34.9	94.9
132	83.3	53.2	113.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42137.d
Acq On : 13 Dec 2022 4:12 pm
Operator : joannel
Sample : FC1200-23
Misc : MS53004,V1A1697,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 13 23:21:38 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

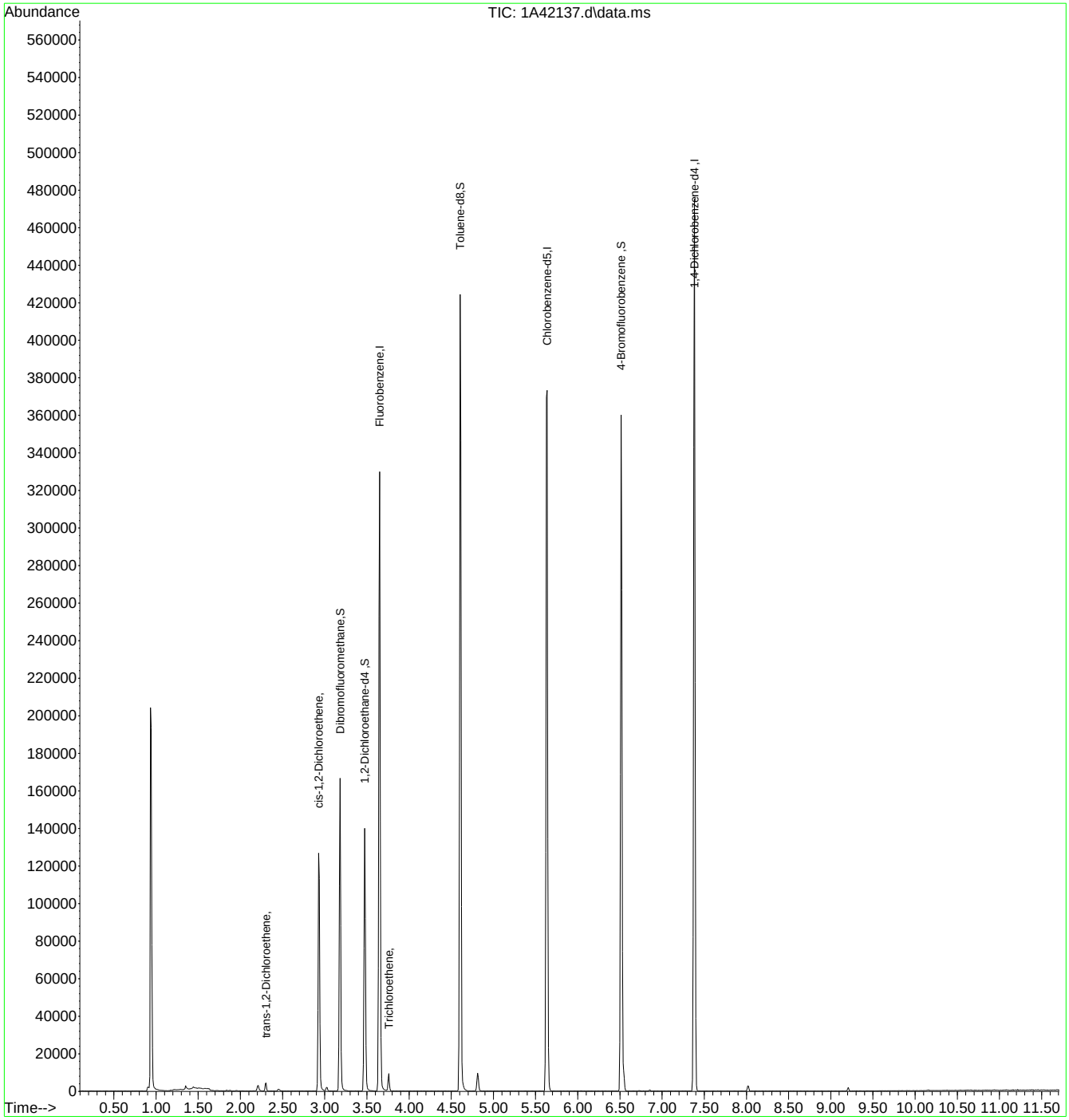
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	190617	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	164371	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	92527	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	59168	48.38	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.76%			
49) 1,2-Dichloroethane-d4	3.474	65	60854	48.54	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.08%			
63) Toluene-d8	4.605	98	198833	48.10	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.20%			
86) 4-Bromofluorobenzene	6.514	174	77428	49.11	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.22%			
Target Compounds						Qvalue
21) trans-1,2-Dichloroethene	2.304	61	1526	0.94	ug/L	82
32) cis-1,2-Dichloroethene	2.927	96	37546	28.96	ug/L	99
53) Trichloroethene	3.758	95	2030	1.53	ug/L	97

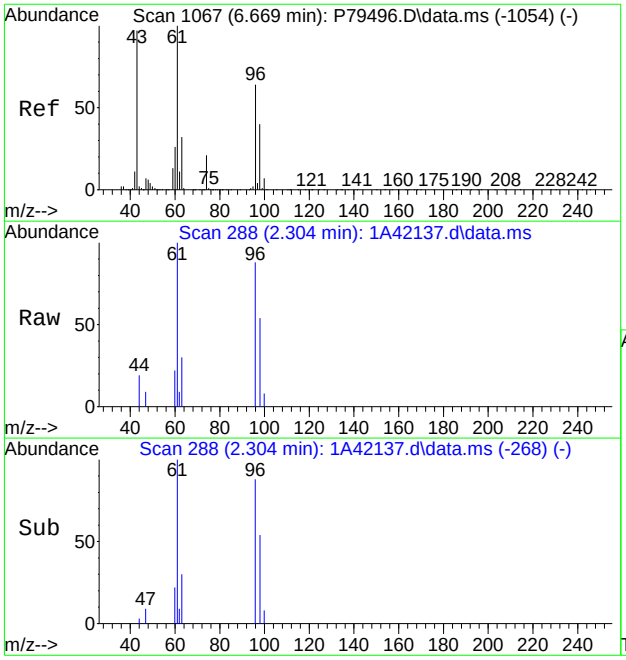
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42137.d
Acq On : 13 Dec 2022 4:12 pm
Operator : joannel
Sample : FC1200-23
Misc : MS53004,V1A1697,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 13 23:21:38 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

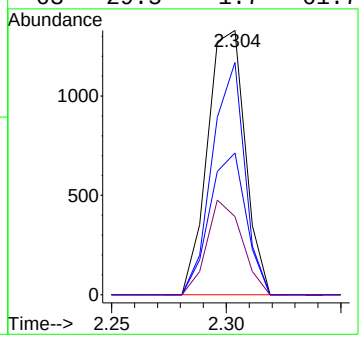


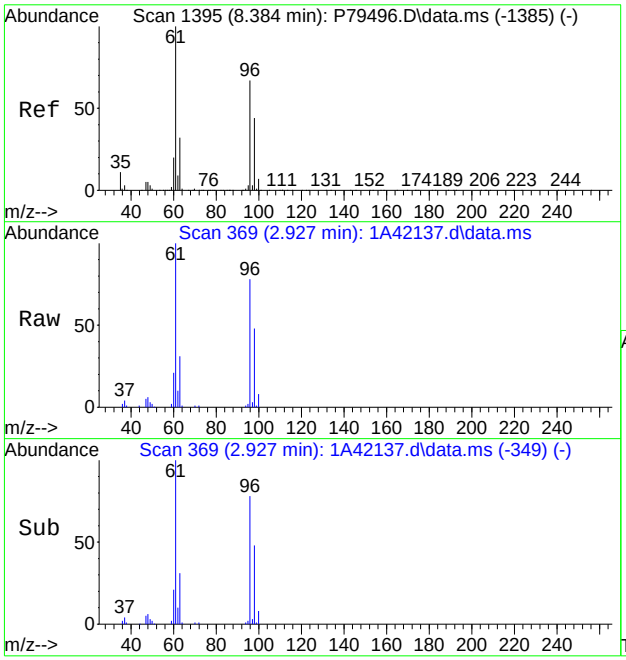


#21
trans-1,2-Dichloroethene
Concen: 0.94 ug/L
RT: 2.304 min Scan# 288
Delta R.T. 0.008 min
Lab File: 1A42137.d
Acq: 13 Dec 2022 4:12 pm

Tgt Ion: 61 Resp: 1526

Ion	Ratio	Lower	Upper
61	100		
96	87.9	37.7	97.7
98	53.6	12.9	72.9
63	29.5	1.7	61.7

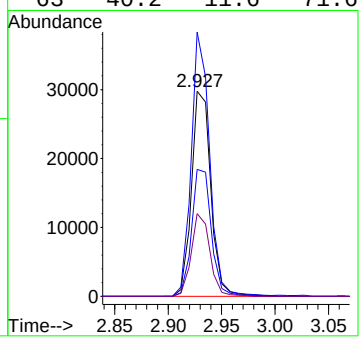


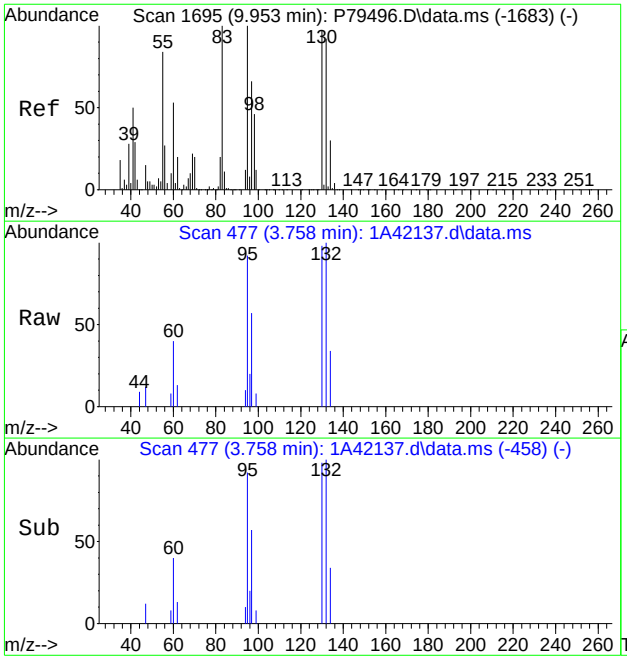


#32
cis-1,2-Dichloroethene
Concen: 28.96 ug/L
RT: 2.927 min Scan# 369
Delta R.T. 0.000 min
Lab File: 1A42137.d
Acq: 13 Dec 2022 4:12 pm

Tgt Ion: 96 Resp: 37546

Ion	Ratio	Lower	Upper
96	100		
61	128.8	99.4	159.4
98	61.9	33.1	93.1
63	40.2	11.6	71.6

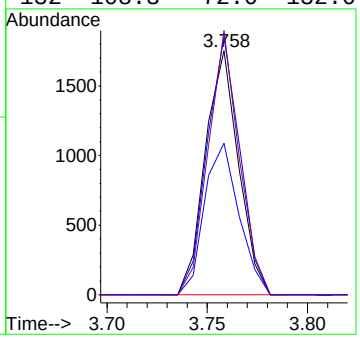




#53
Trichloroethene
Concen: 1.53 ug/L
RT: 3.758 min Scan# 477
Delta R.T. -0.001 min
Lab File: 1A42137.d
Acq: 13 Dec 2022 4:12 pm

Tgt Ion: 95 Resp: 2030

Ion	Ratio	Lower	Upper
95	100		
130	105.8	75.5	135.5
97	62.1	35.0	95.0
132	108.3	72.0	132.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42138.d
Acq On : 13 Dec 2022 4:36 pm
Operator : joannel
Sample : FC1200-24
Misc : MS53004,V1A1697,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 13 23:22:41 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

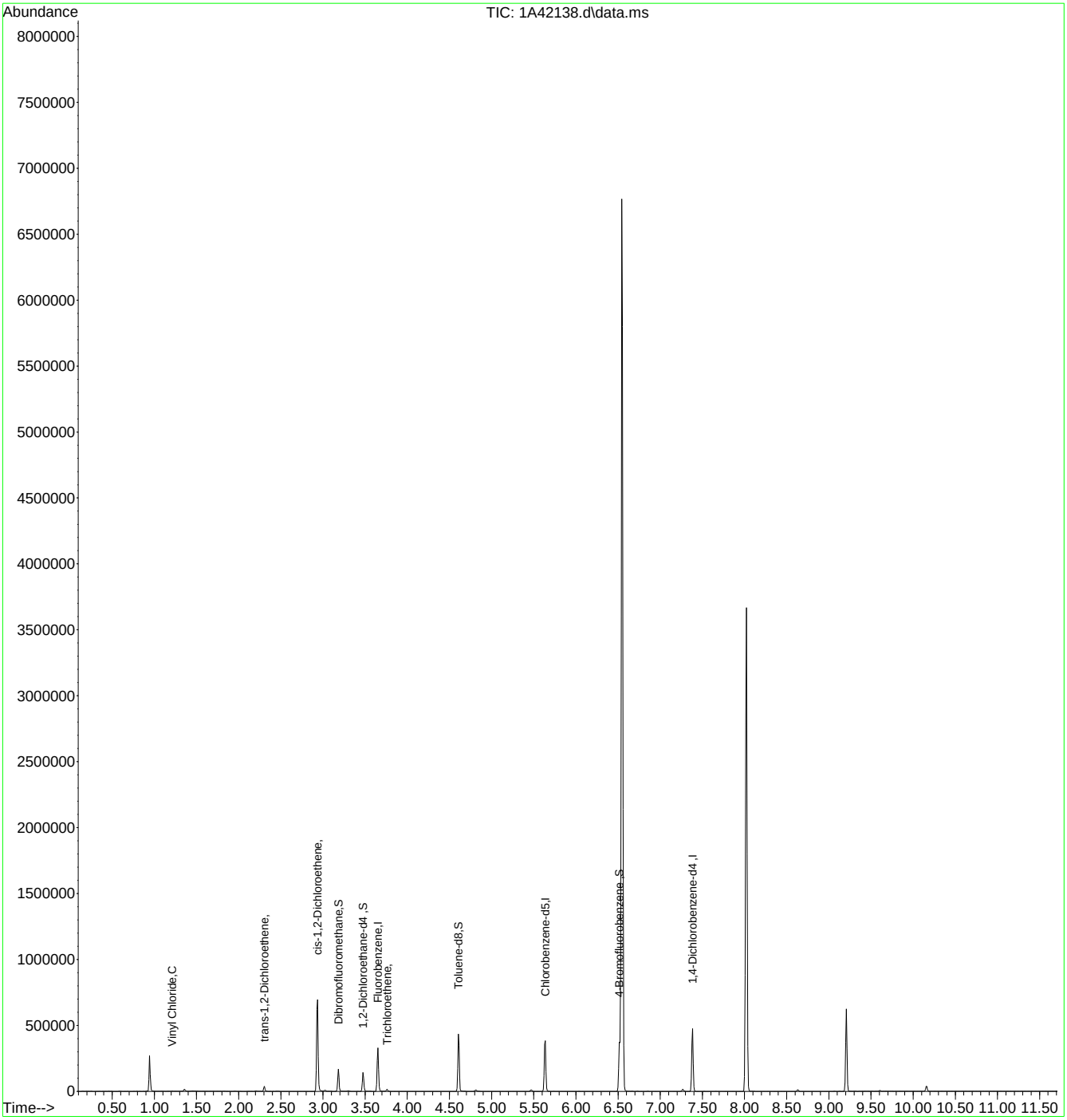
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	189793	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	166184	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	95000	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	58902	48.37	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.74%			
49) 1,2-Dichloroethane-d4	3.474	65	61058	48.92	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.84%			
63) Toluene-d8	4.605	98	201668	48.25	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.50%			
86) 4-Bromofluorobenzene	6.514	174	78389	48.43	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.86%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.211	62	895	0.72	ug/L	92
21) trans-1,2-Dichloroethene	2.304	61	12196	7.54	ug/L	94
32) cis-1,2-Dichloroethene	2.935	96	204026	158.05	ug/L	92
53) Trichloroethene	3.758	95	3333	2.52	ug/L	97

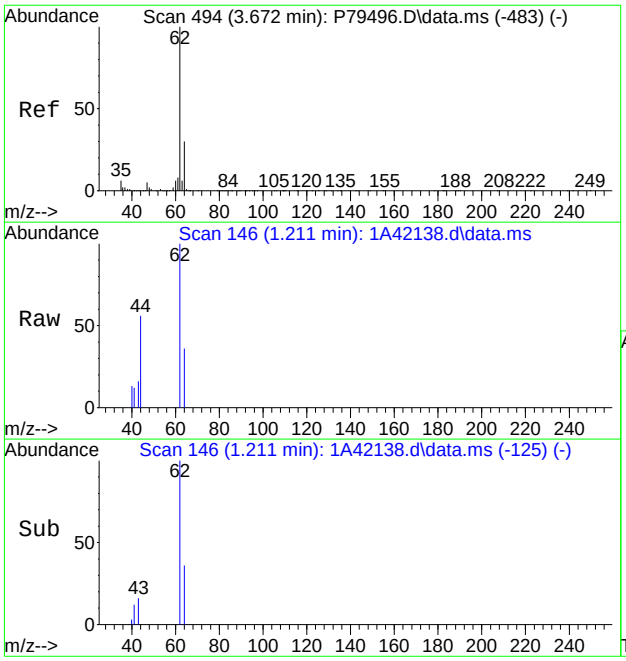
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42138.d
Acq On : 13 Dec 2022 4:36 pm
Operator : joannel
Sample : FC1200-24
Misc : MS53004,V1A1697,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 13 23:22:41 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

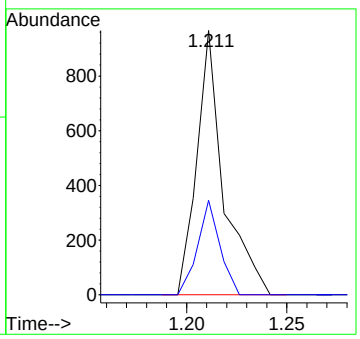


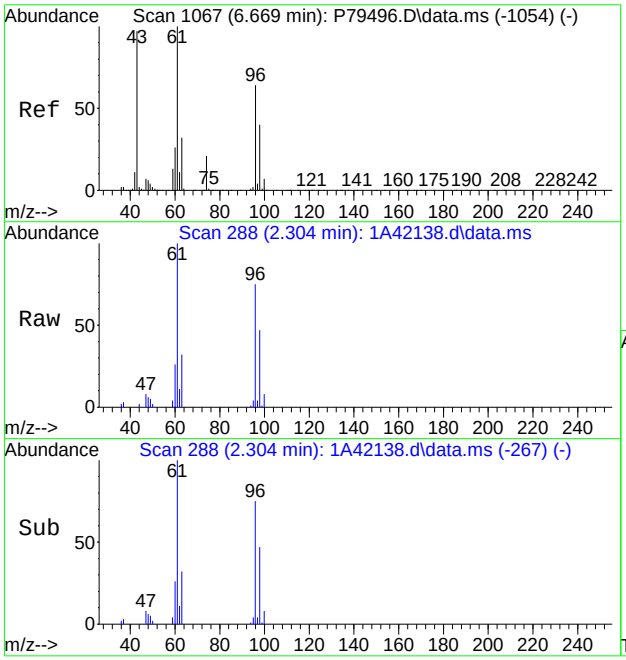


#5
Vinyl Chloride
Concen: 0.72 ug/L
RT: 1.211 min Scan# 146
Delta R.T. 0.008 min
Lab File: 1A42138.d
Acq: 13 Dec 2022 4:36 pm

Tgt Ion: 62 Resp: 895

Ion	Ratio	Lower	Upper
62	100		
64	35.8	1.6	61.6

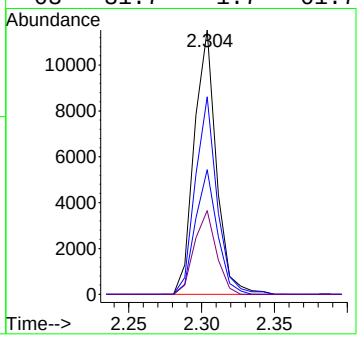


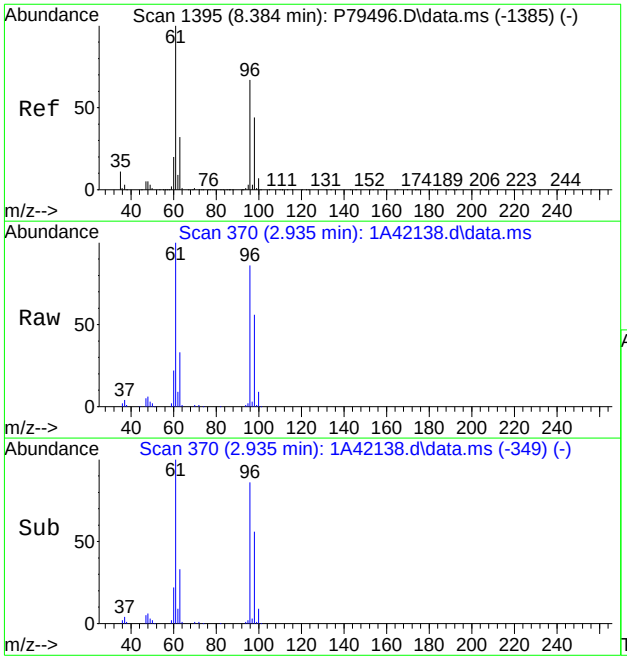


#21
trans-1,2-Dichloroethene
Concen: 7.54 ug/L
RT: 2.304 min Scan# 288
Delta R.T. 0.008 min
Lab File: 1A42138.d
Acq: 13 Dec 2022 4:36 pm

Tgt Ion: 61 Resp: 12196

Ion	Ratio	Lower	Upper
61	100		
96	74.7	37.7	97.7
98	47.2	12.9	72.9
63	31.7	1.7	61.7

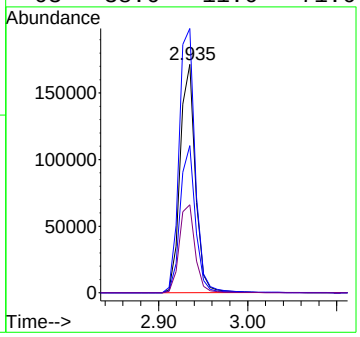


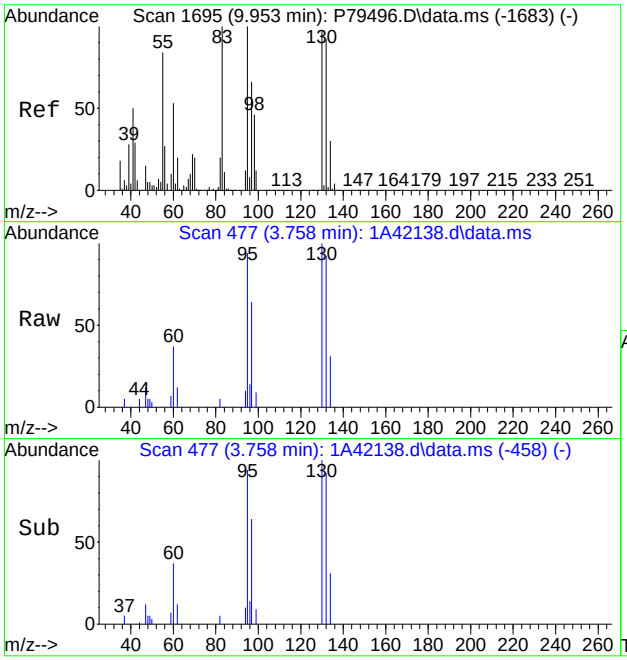


#32
cis-1,2-Dichloroethene
Concen: 158.05 ug/L
RT: 2.935 min Scan# 370
Delta R.T. 0.008 min
Lab File: 1A42138.d
Acq: 13 Dec 2022 4:36 pm

Tgt Ion: 96 Resp: 204026

Ion	Ratio	Lower	Upper
96	100		
61	115.7	99.4	159.4
98	64.4	33.1	93.1
63	38.6	11.6	71.6

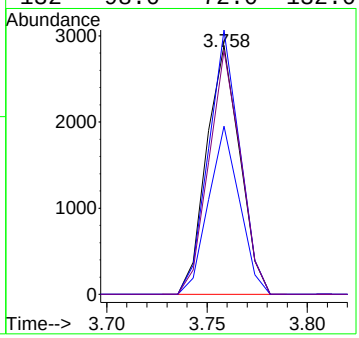




#53
Trichloroethene
Concen: 2.52 ug/L
RT: 3.758 min Scan# 477
Delta R.T. -0.001 min
Lab File: 1A42138.d
Acq: 13 Dec 2022 4:36 pm

Tgt Ion: 95 Resp: 3333

Ion	Ratio	Lower	Upper
95	100		
130	106.3	75.5	135.5
97	67.6	35.0	95.0
132	98.0	72.0	132.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42160.d
Acq On : 14 Dec 2022 2:06 pm
Operator : joannel
Sample : FC1200-24 2X Inst : MSVOA17
Misc : MS53004,V1A1698,,,,,2
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:46:00 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

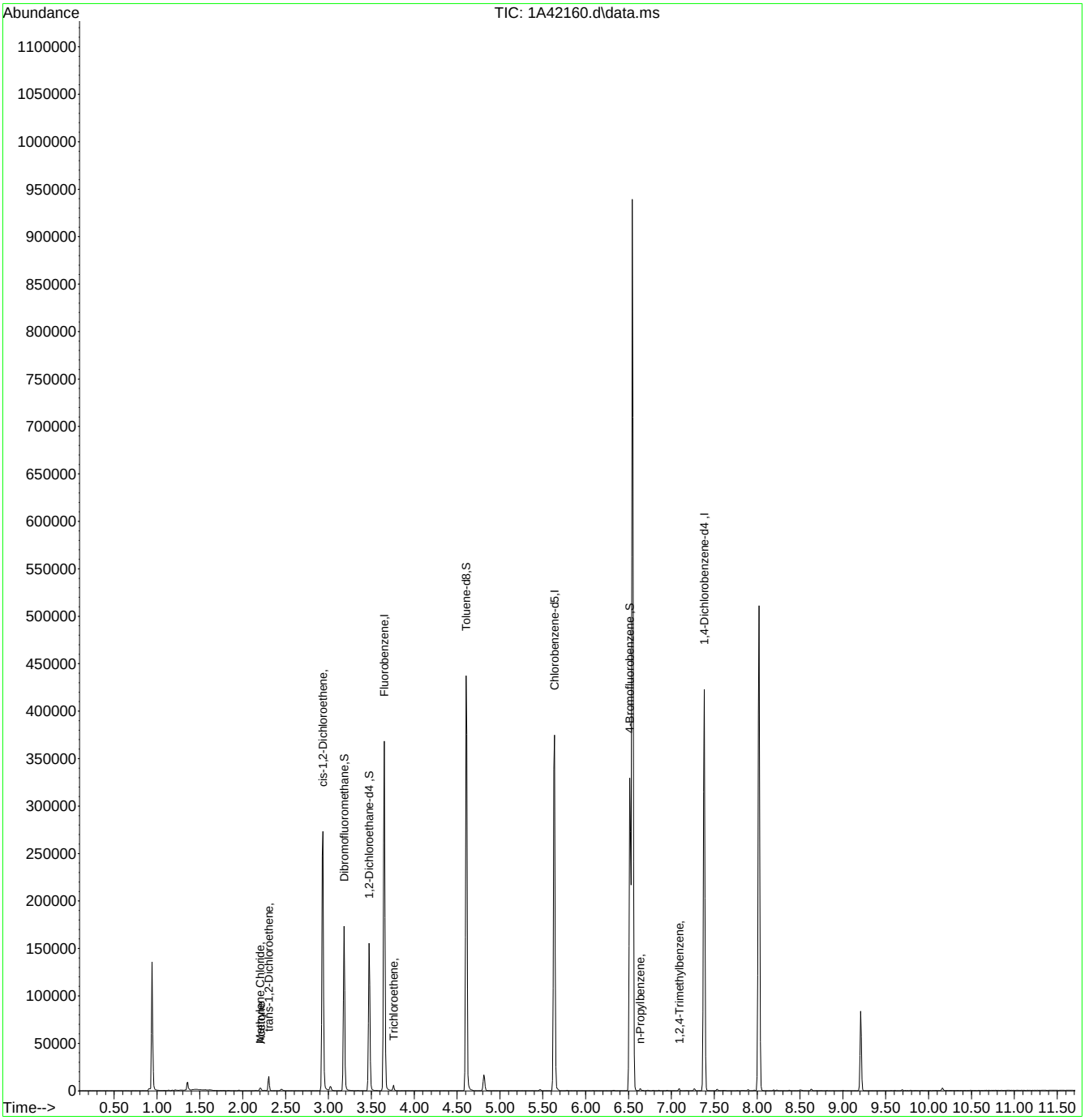
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	211198	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	160119	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	85437	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	60264	44.47	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 88.94%			
49) 1,2-Dichloroethane-d4	3.474	65	66895	48.16	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.32%			
63) Toluene-d8	4.605	98	205681	51.07	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.14%			
86) 4-Bromofluorobenzene	6.514	174	71568	49.16	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.32%			
Target Compounds						Qvalue
18) Methylene Chloride	2.204	49	762	0.45	ug/L	77
19) Acetone	2.211	43	1274	2.83	ug/L	93
21) trans-1,2-Dichloroethene	2.304	61	4601	2.56	ug/L	89
32) cis-1,2-Dichloroethene	2.935	96	81432	56.69	ug/L	91
53) Trichloroethene	3.758	95	1214	0.83	ug/L	92
88) n-Propylbenzene	6.637	91	1721	0.26	ug/L	92
98) 1,2,4-Trimethylbenzene	7.091	105	1371	0.30	ug/L	97

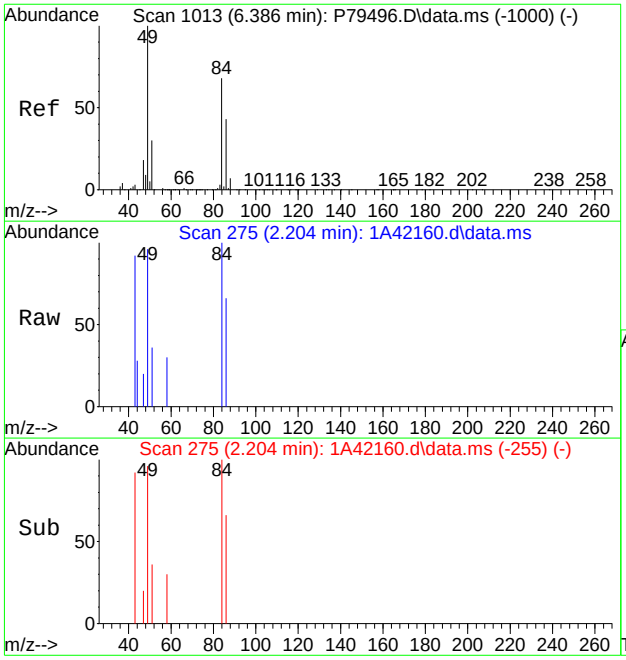
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42160.d
Acq On : 14 Dec 2022 2:06 pm
Operator : joannel
Sample : FC1200-24 2X Inst : MSVOA17
Misc : MS53004,V1A1698,,,,,2
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:46:00 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

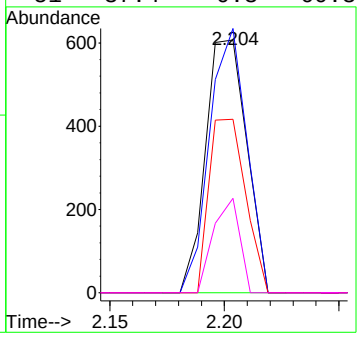


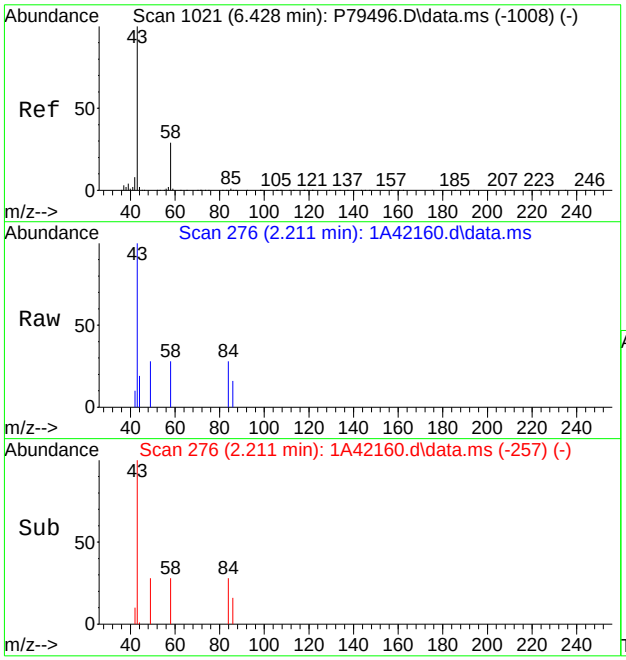


#18
Methylene Chloride
Concen: 0.45 ug/L
RT: 2.204 min Scan# 275
Delta R.T. 0.008 min
Lab File: 1A42160.d
Acq: 14 Dec 2022 2:06 pm

Tgt Ion: 49 Resp: 762

Ion	Ratio	Lower	Upper
49	100		
84	104.6	51.6	111.6
86	68.7	22.2	82.2
51	37.4	0.3	60.3

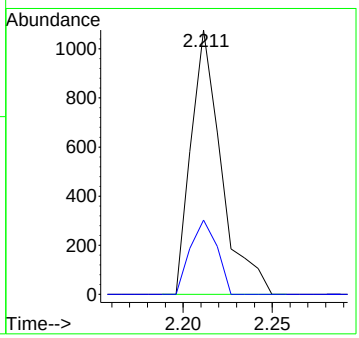


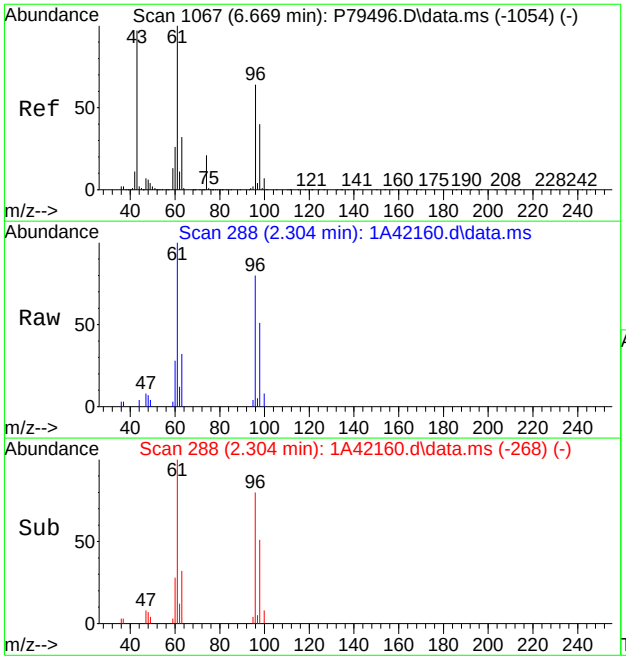


#19
Acetone
Concen: 2.83 ug/L
RT: 2.211 min Scan# 276
Delta R.T. -0.001 min
Lab File: 1A42160.d
Acq: 14 Dec 2022 2:06 pm

Tgt Ion: 43 Resp: 1274

Ion	Ratio	Lower	Upper
43	100		
58	28.1	1.9	61.9

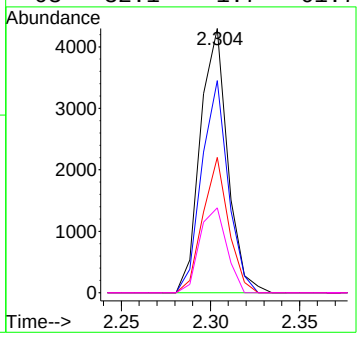


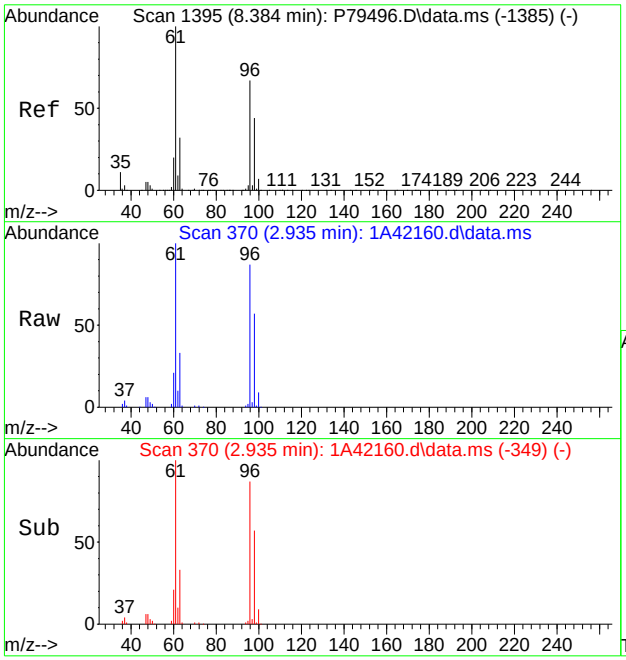


#21
trans-1,2-Dichloroethene
Concen: 2.56 ug/L
RT: 2.304 min Scan# 288
Delta R.T. 0.008 min
Lab File: 1A42160.d
Acq: 14 Dec 2022 2:06 pm

Tgt Ion: 61 Resp: 4601

Ion	Ratio	Lower	Upper
61	100		
96	80.2	37.7	97.7
98	51.2	12.9	72.9
63	32.1	1.7	61.7

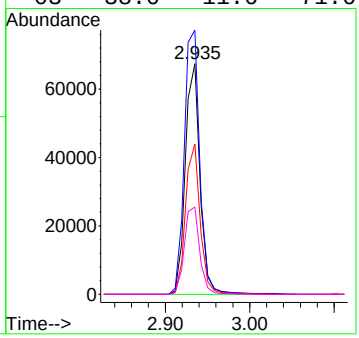


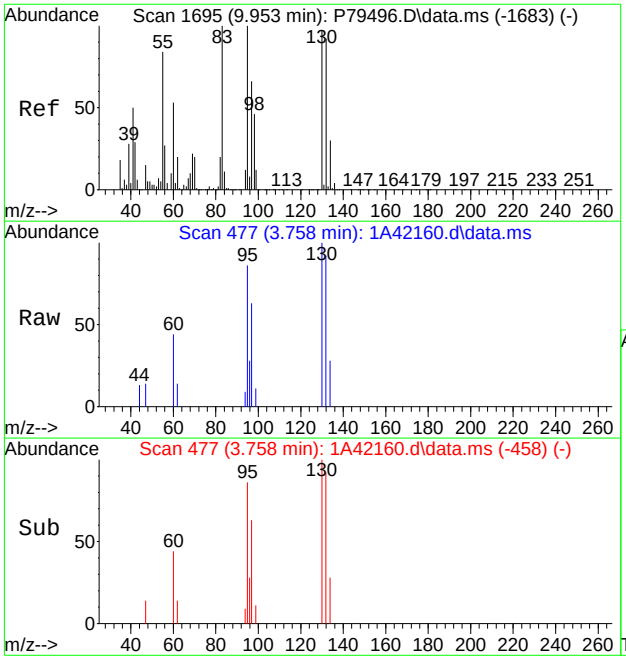


#32
cis-1,2-Dichloroethene
Concen: 56.69 ug/L
RT: 2.935 min Scan# 370
Delta R.T. 0.008 min
Lab File: 1A42160.d
Acq: 14 Dec 2022 2:06 pm

Tgt Ion: 96 Resp: 81432

Ion	Ratio	Lower	Upper
96	100		
61	114.6	99.4	159.4
98	65.2	33.1	93.1
63	38.0	11.6	71.6

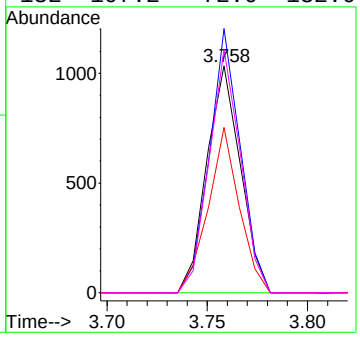


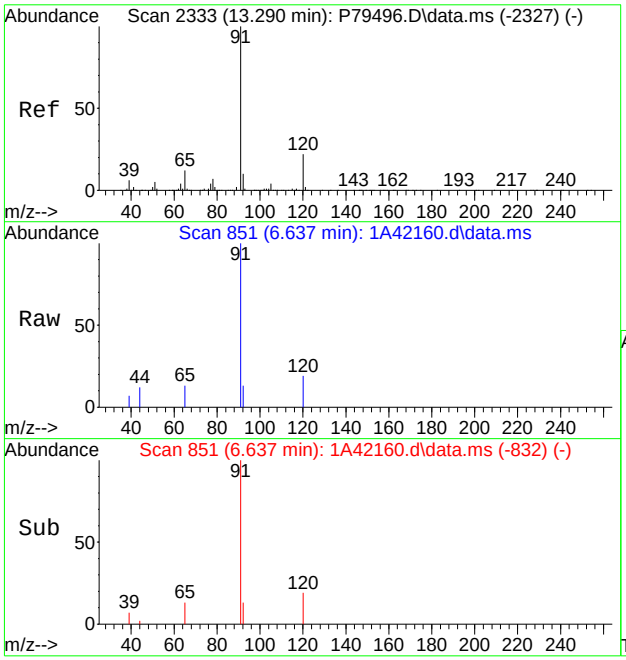


#53
Trichloroethene
Concen: 0.83 ug/L
RT: 3.758 min Scan# 477
Delta R.T. -0.001 min
Lab File: 1A42160.d
Acq: 14 Dec 2022 2:06 pm

Tgt Ion: 95 Resp: 1214

Ion	Ratio	Lower	Upper
95	100		
130	116.4	75.5	135.5
97	72.9	35.0	95.0
132	107.2	72.0	132.0

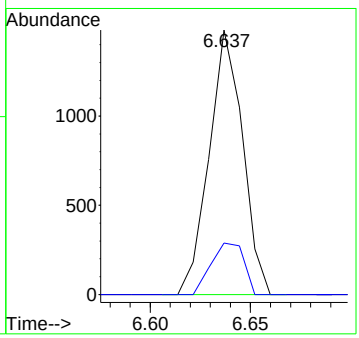


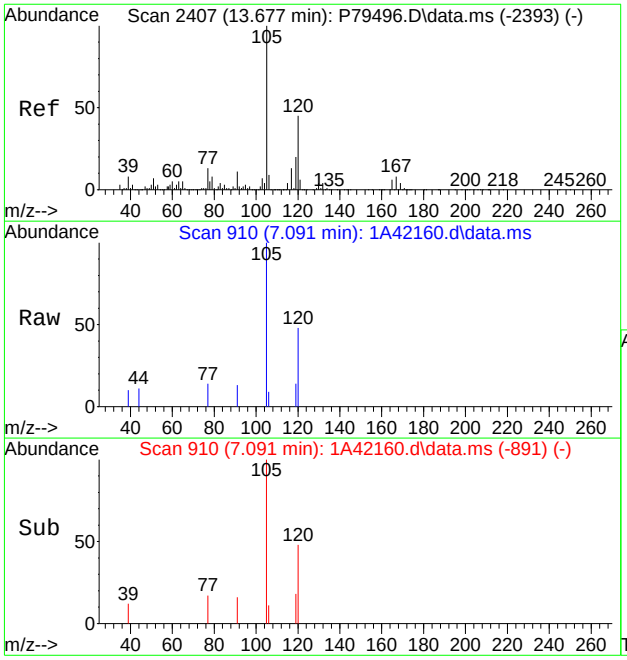


#88
n-Propylbenzene
Concen: 0.26 ug/L
RT: 6.637 min Scan# 851
Delta R.T. -0.000 min
Lab File: 1A42160.d
Acq: 14 Dec 2022 2:06 pm

Tgt Ion: 91 Resp: 1721

Ion	Ratio	Lower	Upper
91	100		
120	19.5	0.0	53.2

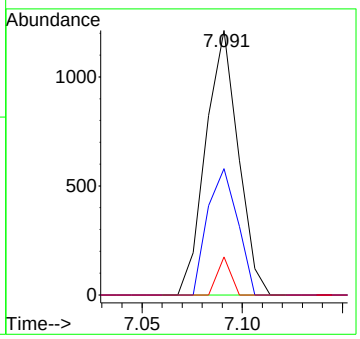




#98
1,2,4-Trimethylbenzene
Concen: 0.30 ug/L
RT: 7.091 min Scan# 910
Delta R.T. -0.000 min
Lab File: 1A42160.d
Acq: 14 Dec 2022 2:06 pm

Tgt Ion:105 Resp: 1371

Ion	Ratio	Lower	Upper
105	100		
120	47.7	16.1	76.1
119	14.3	0.0	41.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42143.d
Acq On : 13 Dec 2022 6:35 pm
Operator : joannel
Sample : FC1200-25 2X
Misc : MS53004,V1A1697,,,,,2
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 13 23:24:55 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

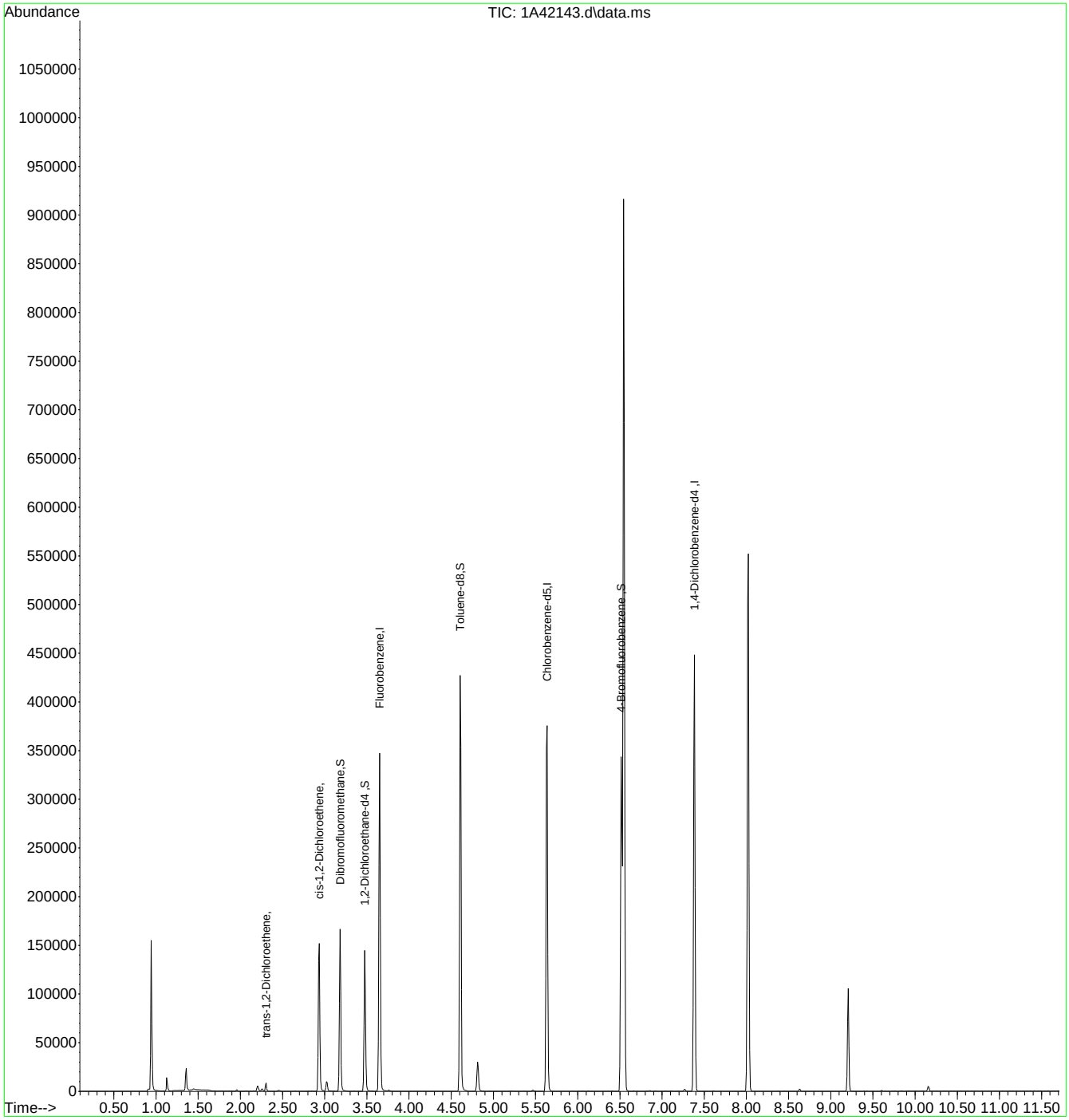
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	195303	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	162048	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.384	152	89361	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	57830	46.15	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 92.30%			
49) 1,2-Dichloroethane-d4	3.474	65	61993	48.26	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.52%			
63) Toluene-d8	4.605	98	200867	49.28	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.56%			
86) 4-Bromofluorobenzene	6.514	174	74557	48.97	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.94%			
Target Compounds						Qvalue
21) trans-1,2-Dichloroethene	2.304	61	2648	1.59	ug/L	90
32) cis-1,2-Dichloroethene	2.935	96	44133	33.22	ug/L	93

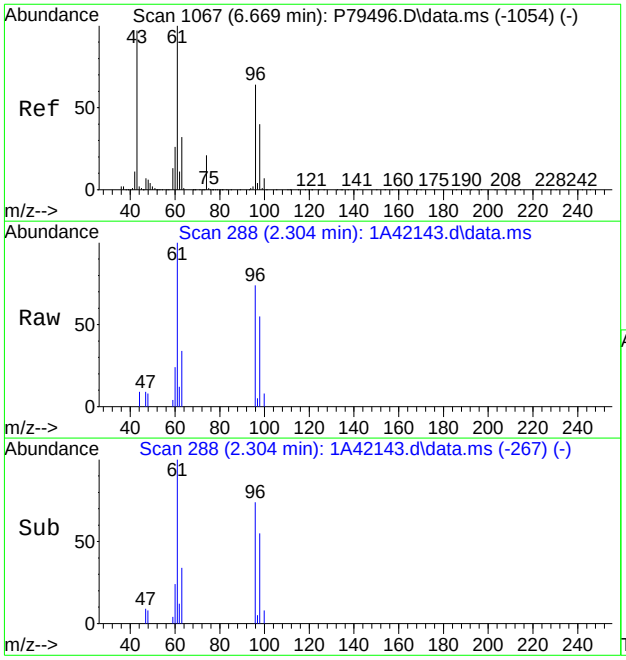
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42143.d
Acq On : 13 Dec 2022 6:35 pm
Operator : joannel
Sample : FC1200-25 2X
Misc : MS53004,V1A1697,,,,,2
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 13 23:24:55 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

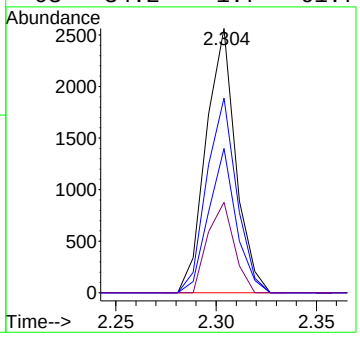


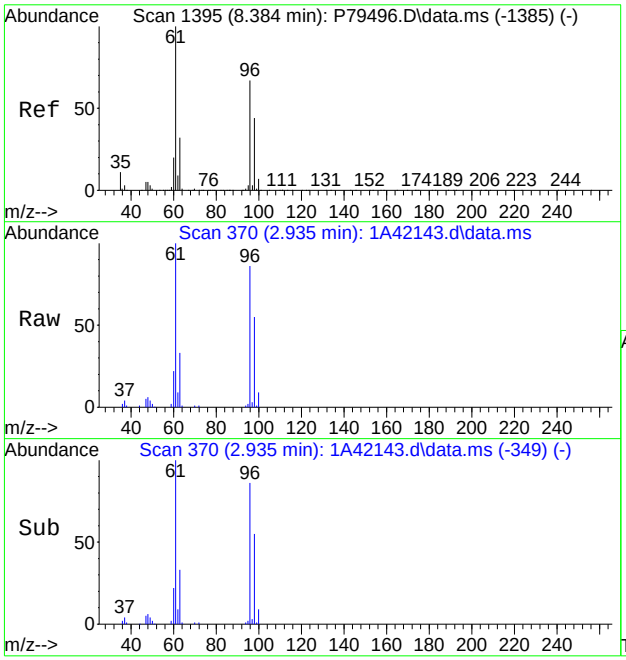


#21
trans-1,2-Dichloroethene
Concen: 1.59 ug/L
RT: 2.304 min Scan# 288
Delta R.T. 0.008 min
Lab File: 1A42143.d
Acq: 13 Dec 2022 6:35 pm

Tgt Ion: 61 Resp: 2648

Ion	Ratio	Lower	Upper
61	100		
96	73.7	37.7	97.7
98	54.6	12.9	72.9
63	34.2	1.7	61.7

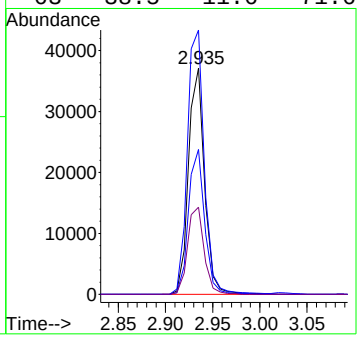




#32
cis-1,2-Dichloroethene
Concen: 33.22 ug/L
RT: 2.935 min Scan# 370
Delta R.T. 0.008 min
Lab File: 1A42143.d
Acq: 13 Dec 2022 6:35 pm

Tgt Ion: 96 Resp: 44133

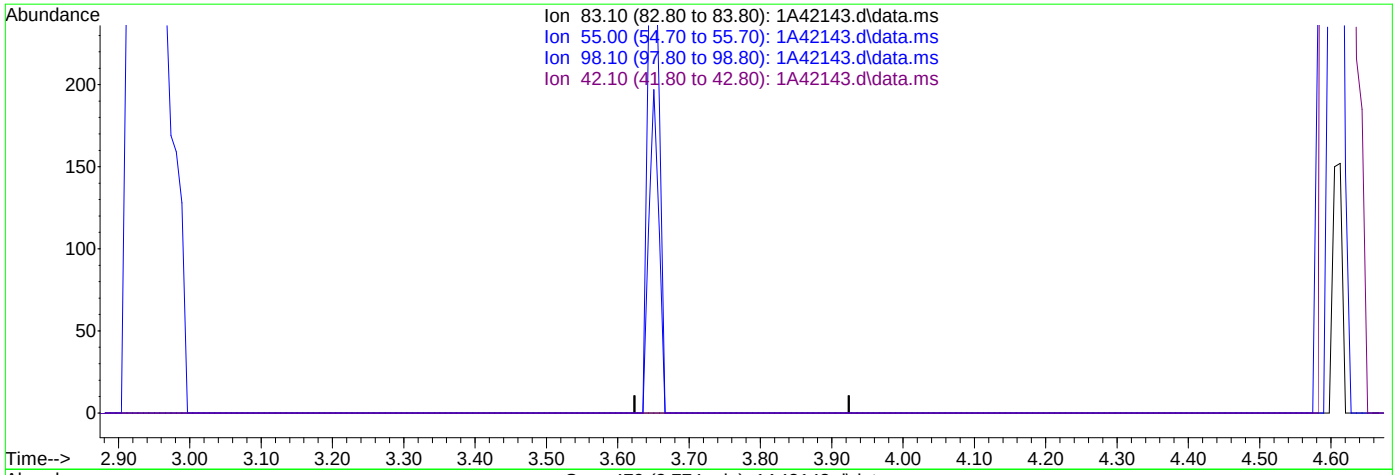
Ion	Ratio	Lower	Upper
96	100		
61	116.8	99.4	159.4
98	64.1	33.1	93.1
63	38.5	11.6	71.6

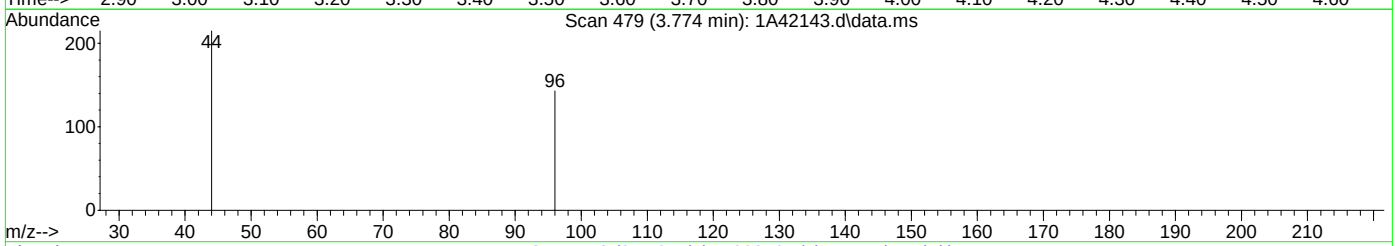


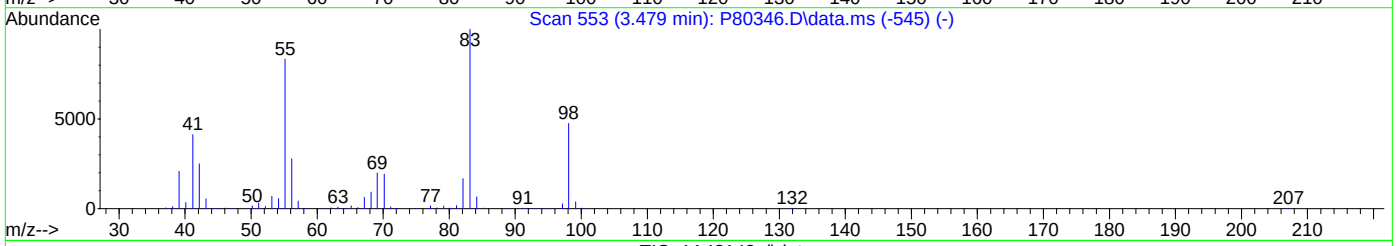
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42143.d
Acq On : 13 Dec 2022 6:35 pm
Operator : joannel
Sample : FC1200-25 2X
Misc : MS53004,V1A1697,,,,,2
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 13 22:49:52 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42143.d\data.ms

(54) Methylcyclohexane

3.774min (-3.774) 0.00ug/L

response 0

Ion	Exp%	Act%
83.10	100	0.00
55.00	74.40	0.00#
98.10	45.40	0.00#
42.10	23.60	0.00#

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 12/28/22 11:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42439.d
Acq On : 27 Dec 2022 2:59 pm
Operator : joannel
Sample : FC1200-25
Misc : MS53004,V2A1682,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 27 23:09:52 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration

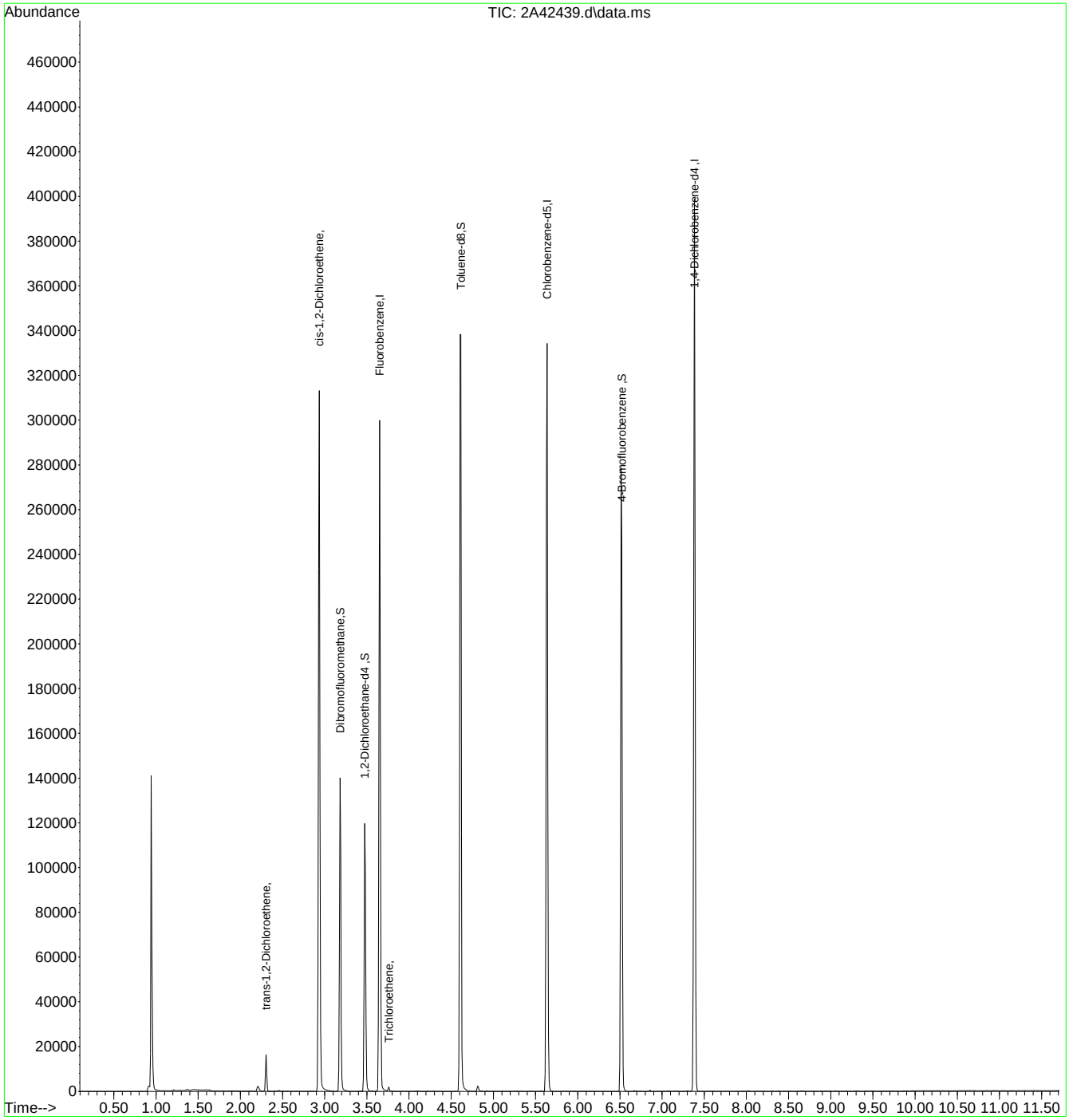
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	169480	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	142090	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.384	152	79252	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	51035	51.98	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.96%			
49) 1,2-Dichloroethane-d4	3.474	65	53435	48.19	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.38%			
63) Toluene-d8	4.613	98	175185	48.94	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.88%			
86) 4-Bromofluorobenzene	6.522	174	64682	48.52	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.04%			
Target Compounds						Qvalue
21) trans-1,2-Dichloroethene	2.304	61	4766	3.99	ug/L	91
32) cis-1,2-Dichloroethene	2.935	96	89535	91.87	ug/L	94
53) Trichloroethene	3.759	95	398m	0.39	ug/L	

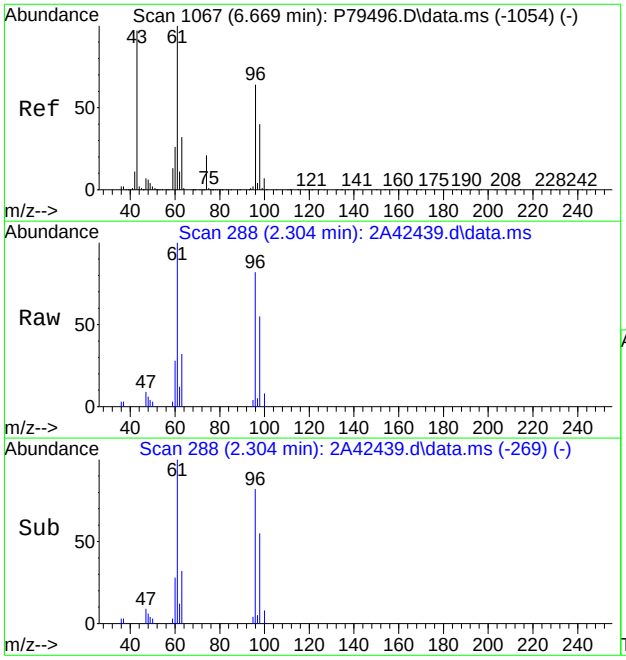
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42439.d
Acq On : 27 Dec 2022 2:59 pm
Operator : joannel
Sample : FC1200-25
Misc : MS53004,V2A1682,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 27 23:09:52 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration

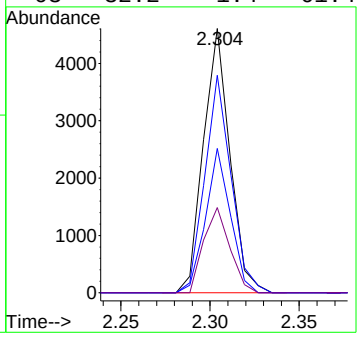


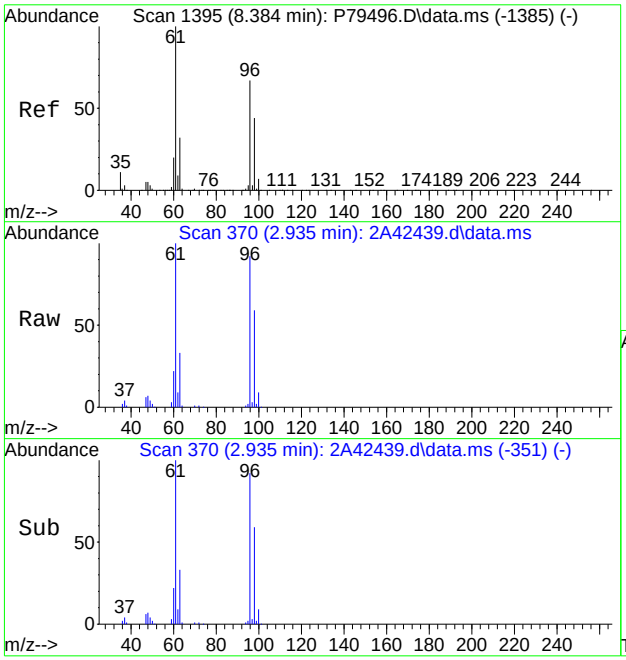


#21
trans-1,2-Dichloroethene
Concen: 3.99 ug/L
RT: 2.304 min Scan# 288
Delta R.T. -0.000 min
Lab File: 2A42439.d
Acq: 27 Dec 2022 2:59 pm

Tgt Ion: 61 Resp: 4766

Ion	Ratio	Lower	Upper
61	100		
96	82.2	43.9	103.9
98	54.6	16.9	76.9
63	32.2	1.4	61.4

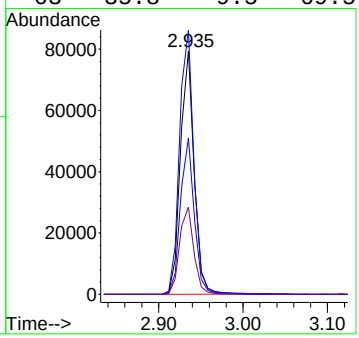


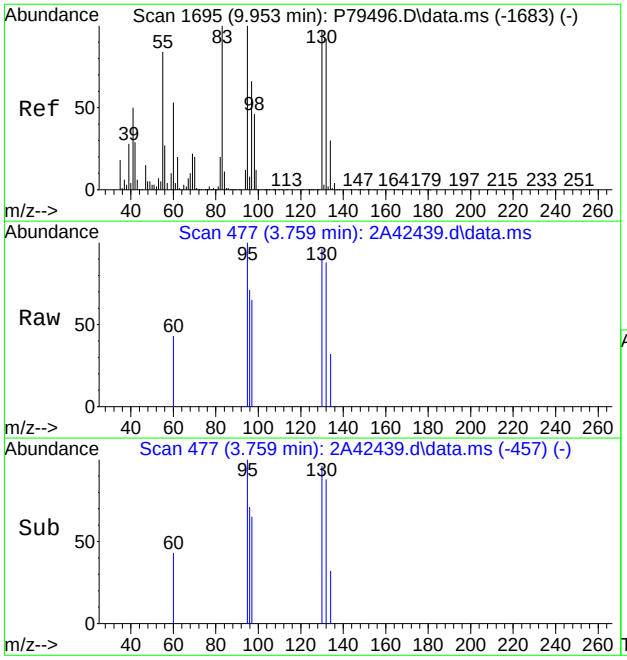


#32
cis-1,2-Dichloroethene
Concen: 91.87 ug/L
RT: 2.935 min Scan# 370
Delta R.T. 0.000 min
Lab File: 2A42439.d
Acq: 27 Dec 2022 2:59 pm

Tgt Ion: 96 Resp: 89535

Ion	Ratio	Lower	Upper
96	100		
61	108.7	89.1	149.1
98	64.2	34.7	94.7
63	35.8	9.5	69.5

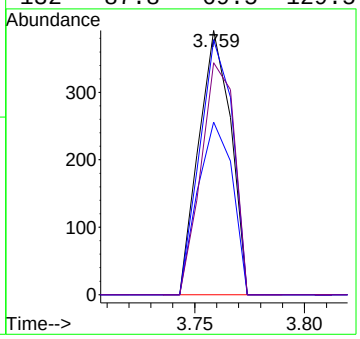




#53
Trichloroethene
Concen: 0.39 ug/L m
RT: 3.759 min Scan# 477
Delta R.T. 0.001 min
Lab File: 2A42439.d
Acq: 27 Dec 2022 2:59 pm

Tgt Ion: 95 Resp: 398

Ion	Ratio	Lower	Upper
95	100		
130	96.4	71.8	131.8
97	65.3	33.7	93.7
132	87.8	69.5	129.5



Manual Integration Approval Summary

Sample Number: FC1200-25
Lab FileID: 2A42439.D
Injection Time: 12/27/22 14:59

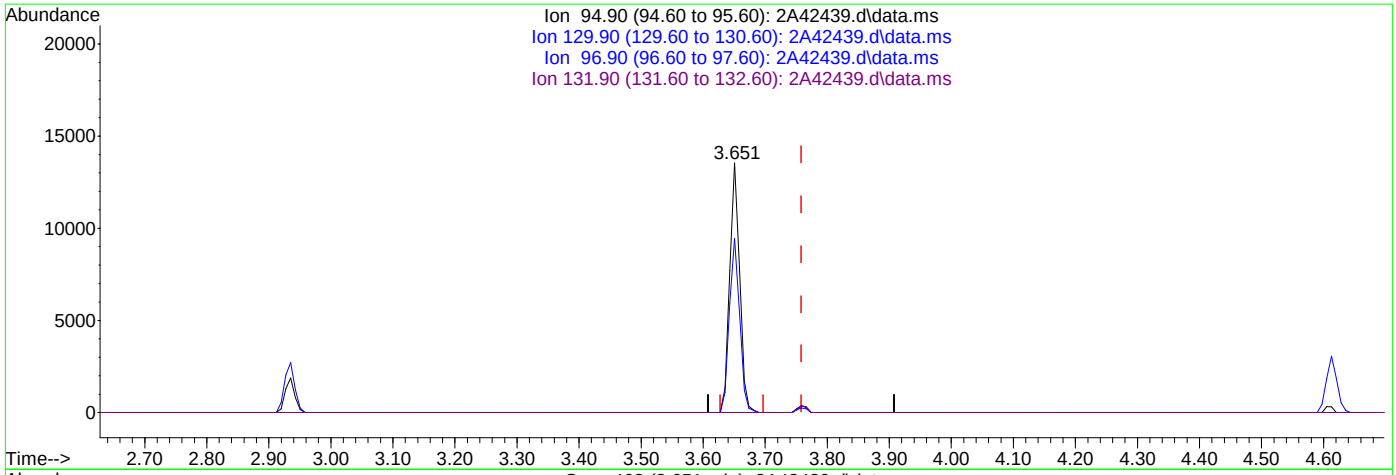
Method: SW846 8260D
Analyst approved: 12/28/22 00:25 Celine Celis
Supervisor approved: 12/28/22 11:45 Neil Christiana

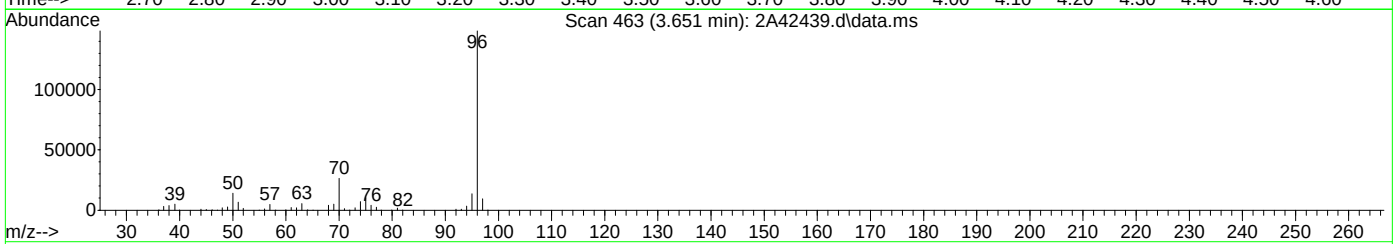
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichloroethylene	79-01-6		3.76	Missed peak

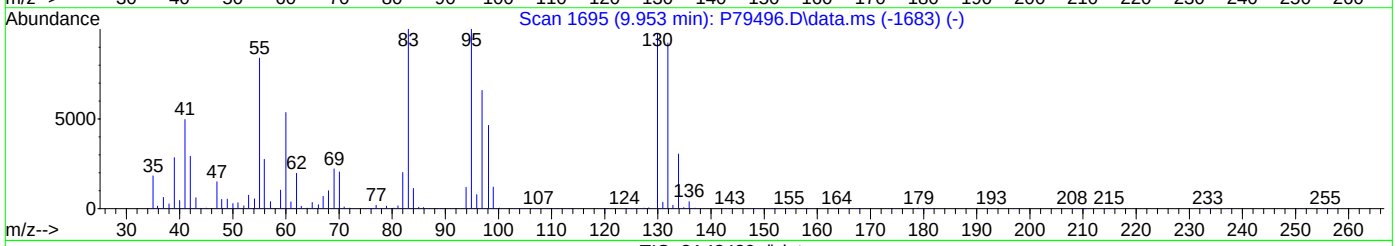
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42439.d
Acq On : 27 Dec 2022 2:59 pm
Operator : joannel
Sample : FC1200-25
Misc : MS53004,V2A1682,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 27 23:08:53 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration







TIC: 2A42439.d\data.ms

(53) Trichloroethene ( )

3.651min (-0.107) 14.60ug/L

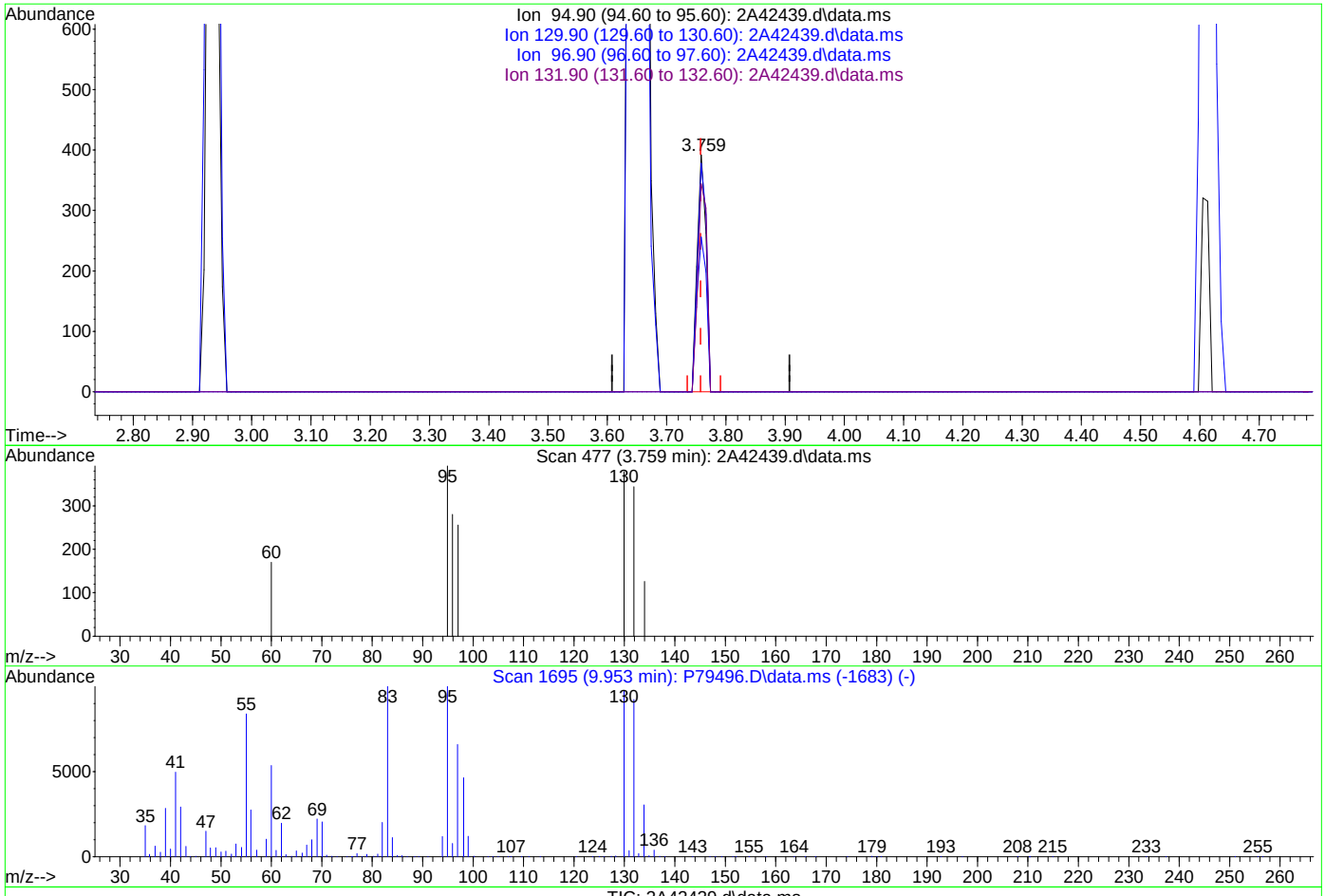
response 14970

Ion	Exp%	Act%
94.90	100	100
129.90	101.80	0.00#
96.90	63.70	69.80
131.90	99.50	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42439.d
Acq On : 27 Dec 2022 2:59 pm
Operator : joannel
Sample : FC1200-25
Misc : MS53004,V2A1682,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 27 23:08:53 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration



TIC: 2A42439.d\data.ms

(53) Trichloroethene ( )

3.759min (+0.001) 0.39ug/L m

response 398

Ion	Exp%	Act%
94.90	100	100
129.90	101.80	96.43
96.90	63.70	65.31
131.90	99.50	87.76

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42139.d
Acq On : 13 Dec 2022 4:59 pm
Operator : joannel
Sample : FC1200-26
Misc : MS53004,V1A1697,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 13 23:23:09 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

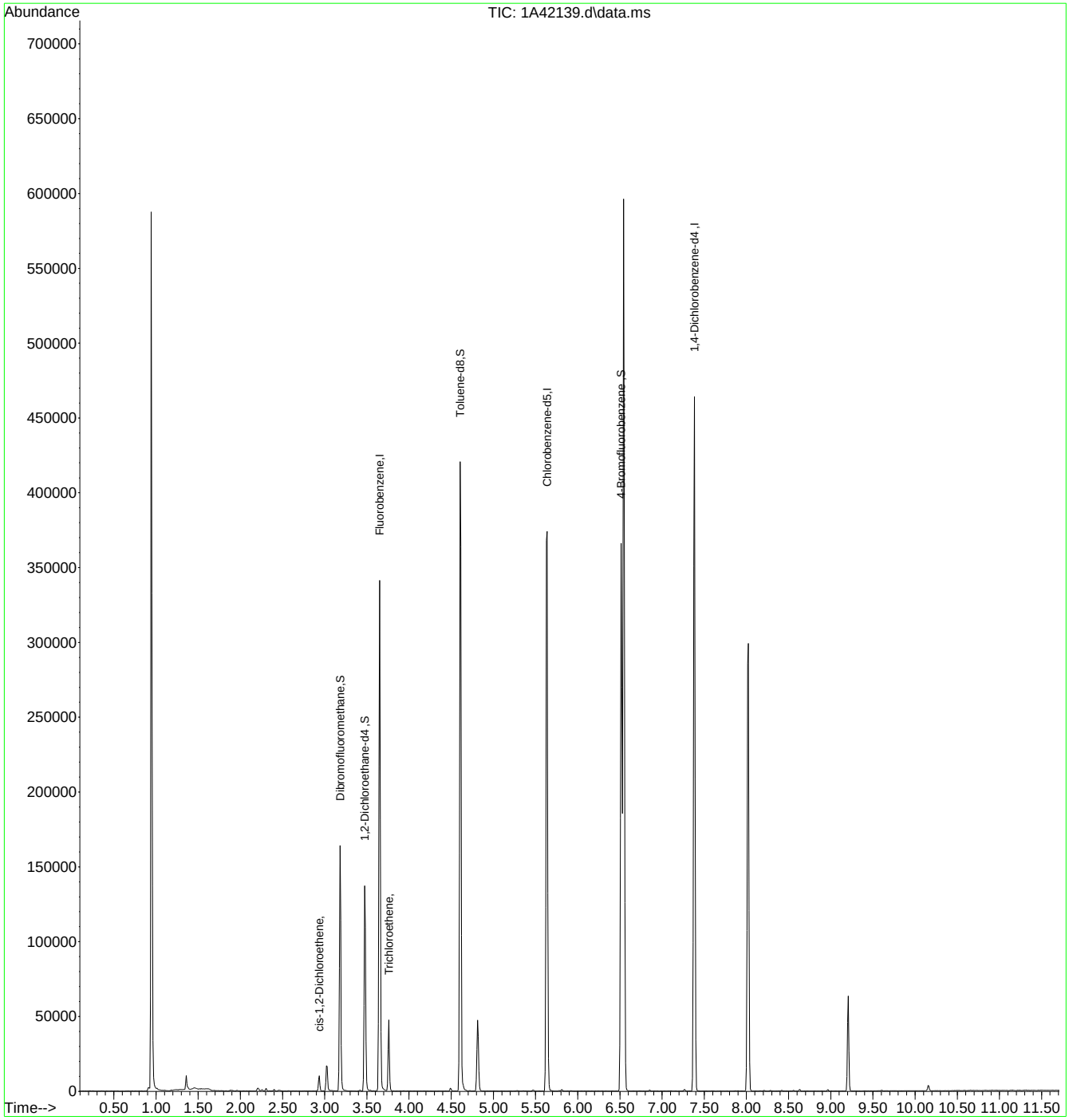
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	190098	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	164843	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.384	152	93161	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	58625	48.06	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.12%			
49) 1,2-Dichloroethane-d4	3.474	65	60761	48.60	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.20%			
63) Toluene-d8	4.605	98	198448	47.87	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.74%			
86) 4-Bromofluorobenzene	6.514	174	77765	48.99	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.98%			
Target Compounds						Qvalue
32) cis-1,2-Dichloroethene	2.935	96	2951	2.28	ug/L	92
53) Trichloroethene	3.759	95	9419	7.11	ug/L	96

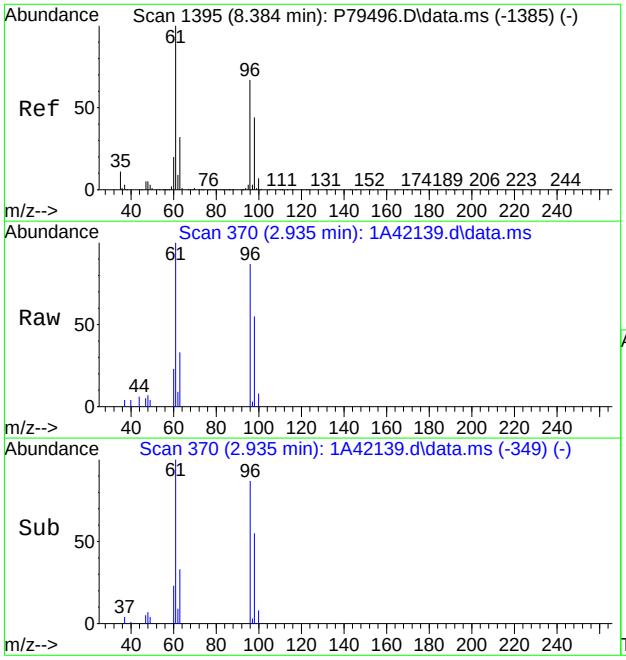
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42139.d
Acq On : 13 Dec 2022 4:59 pm
Operator : joannel
Sample : FC1200-26
Misc : MS53004,V1A1697,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 13 23:23:09 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

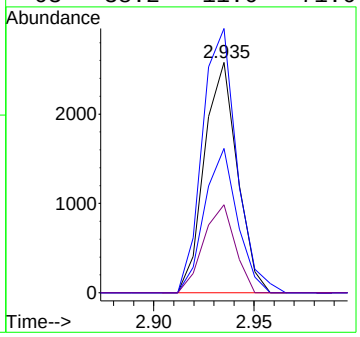


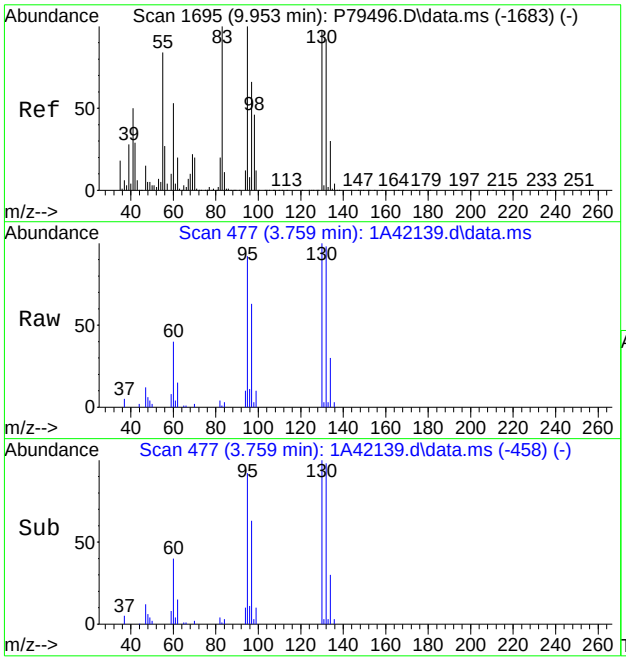


#32
cis-1,2-Dichloroethene
Concen: 2.28 ug/L
RT: 2.935 min Scan# 370
Delta R.T. 0.008 min
Lab File: 1A42139.d
Acq: 13 Dec 2022 4:59 pm

Tgt Ion: 96 Resp: 2951

Ion	Ratio	Lower	Upper
96	100		
61	114.8	99.4	159.4
98	62.7	33.1	93.1
63	38.2	11.6	71.6

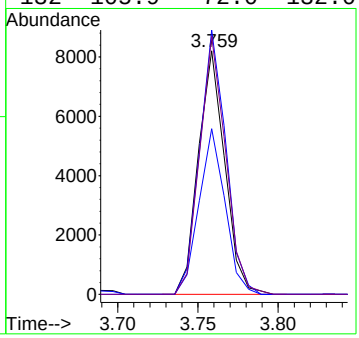




#53
Trichloroethene
Concen: 7.11 ug/L
RT: 3.759 min Scan# 477
Delta R.T. -0.000 min
Lab File: 1A42139.d
Acq: 13 Dec 2022 4:59 pm

Tgt Ion: 95 Resp: 9419

Ion	Ratio	Lower	Upper
95	100		
130	108.6	75.5	135.5
97	68.0	35.0	95.0
132	105.9	72.0	132.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42140.d
Acq On : 13 Dec 2022 5:23 pm
Operator : joannel
Sample : FC1200-27
Misc : MS53004,V1A1697,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 13 23:23:22 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

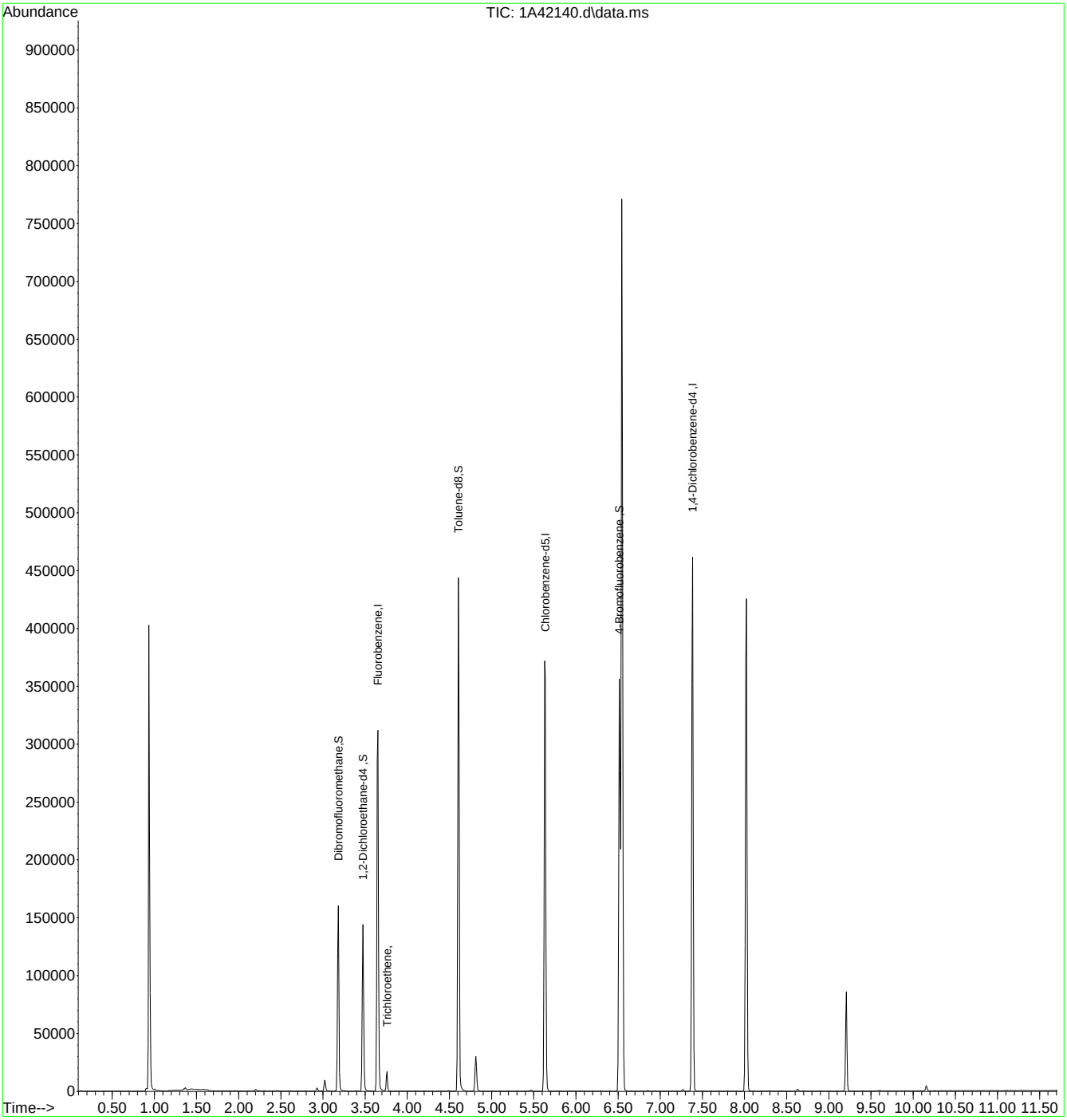
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	191007	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	162667	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.384	152	91999	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	57648	47.04	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.08%			
49) 1,2-Dichloroethane-d4	3.474	65	60388	48.07	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.14%			
63) Toluene-d8	4.605	98	199048	48.65	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.30%			
86) 4-Bromofluorobenzene	6.514	174	75746	48.32	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.64%			
Target Compounds						Qvalue
53) Trichloroethene	3.759	95	3571	2.68	ug/L	97

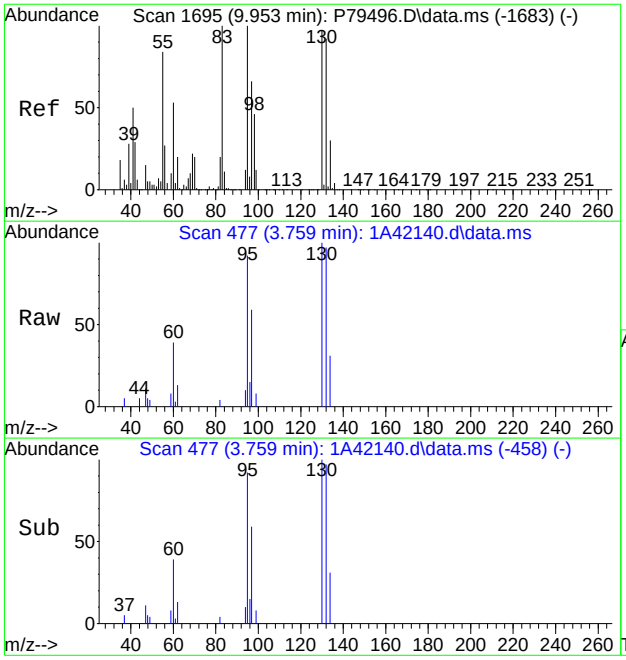
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42140.d
Acq On : 13 Dec 2022 5:23 pm
Operator : joannel
Sample : FC1200-27
Misc : MS53004,V1A1697,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 13 23:23:22 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

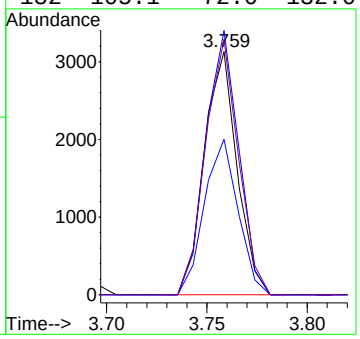




#53
Trichloroethene
Concen: 2.68 ug/L
RT: 3.759 min Scan# 477
Delta R.T. -0.000 min
Lab File: 1A42140.d
Acq: 13 Dec 2022 5:23 pm

Tgt Ion: 95 Resp: 3571

Ion	Ratio	Lower	Upper
95	100		
130	108.8	75.5	135.5
97	64.0	35.0	95.0
132	105.1	72.0	132.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42141.d
Acq On : 13 Dec 2022 5:47 pm
Operator : joannel
Sample : FC1200-28
Misc : MS53004,V1A1697,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 13 23:23:41 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

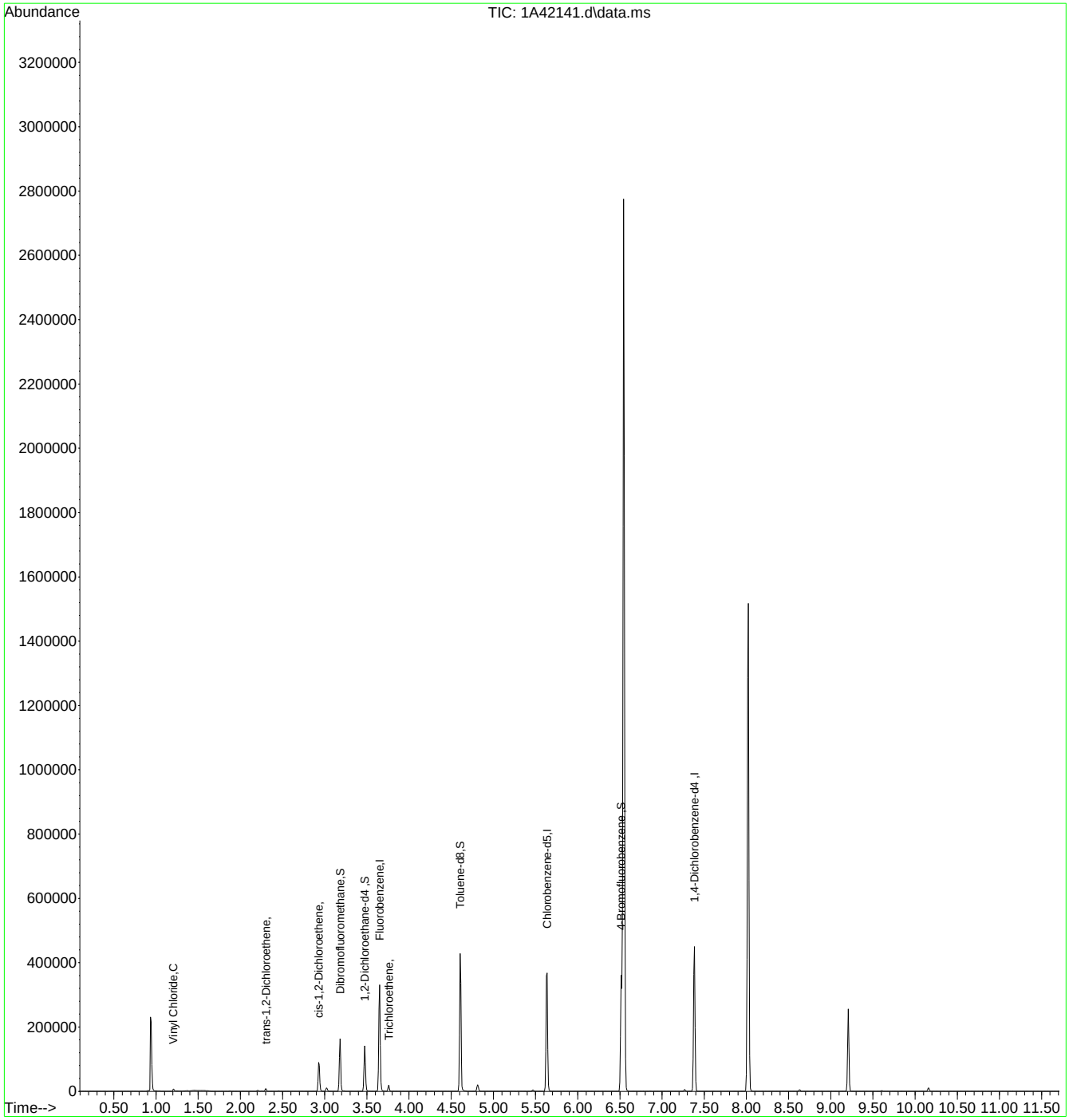
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	189862	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	160557	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	91710	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	57886	47.52	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.04%			
49) 1,2-Dichloroethane-d4	3.474	65	60709	48.62	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.24%			
63) Toluene-d8	4.605	98	196276	48.61	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.22%			
86) 4-Bromofluorobenzene	6.514	174	75270	48.17	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.34%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.203	62	4591	3.70	ug/L	100
21) trans-1,2-Dichloroethene	2.304	61	2859	1.77	ug/L	93
32) cis-1,2-Dichloroethene	2.927	96	26681	20.66	ug/L	98
53) Trichloroethene	3.759	95	3967	3.00	ug/L	94

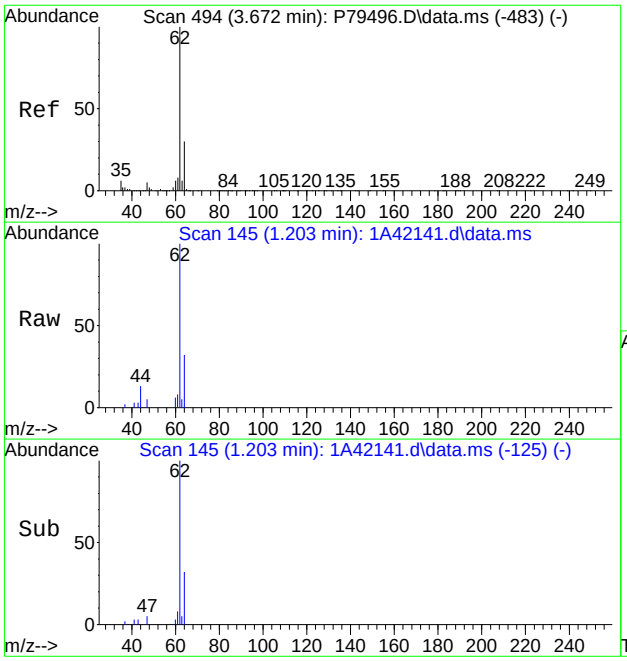
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42141.d
Acq On : 13 Dec 2022 5:47 pm
Operator : joannel
Sample : FC1200-28
Misc : MS53004,V1A1697,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 13 23:23:41 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

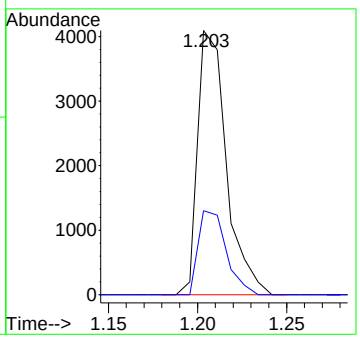


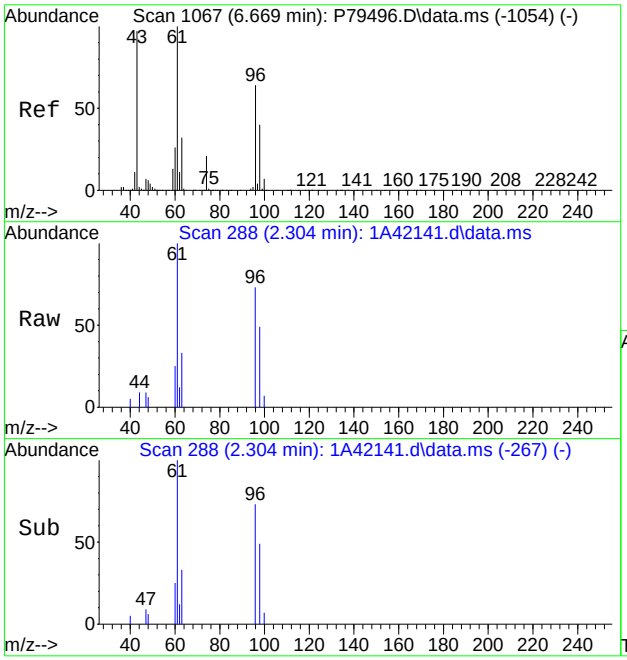


#5
Vinyl Chloride
Concen: 3.70 ug/L
RT: 1.203 min Scan# 145
Delta R.T. 0.000 min
Lab File: 1A42141.d
Acq: 13 Dec 2022 5:47 pm

Tgt Ion: 62 Resp: 4591

Ion	Ratio	Lower	Upper
62	100		
64	31.8	1.6	61.6

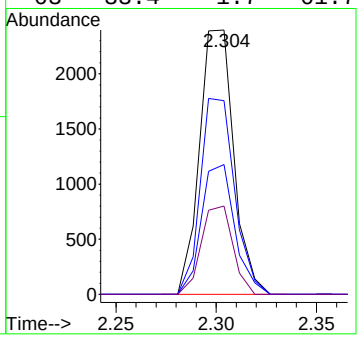


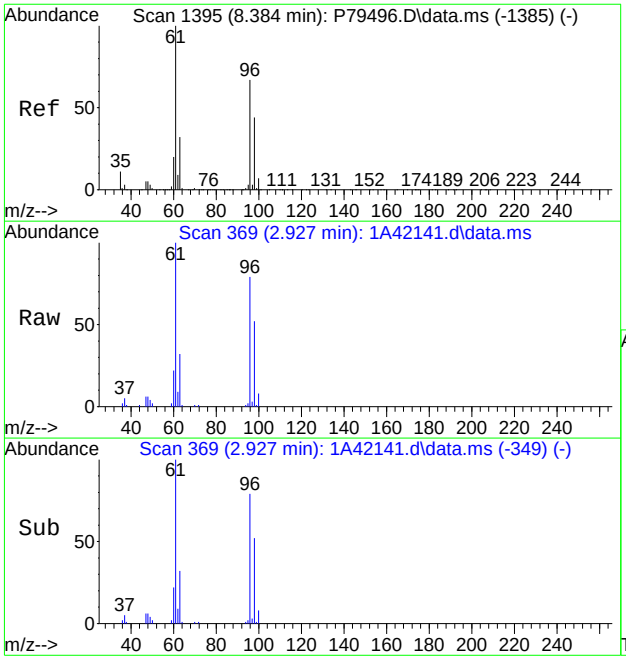


#21
trans-1,2-Dichloroethene
Concen: 1.77 ug/L
RT: 2.304 min Scan# 288
Delta R.T. 0.008 min
Lab File: 1A42141.d
Acq: 13 Dec 2022 5:47 pm

Tgt Ion: 61 Resp: 2859

Ion	Ratio	Lower	Upper
61	100		
96	73.3	37.7	97.7
98	49.0	12.9	72.9
63	33.4	1.7	61.7

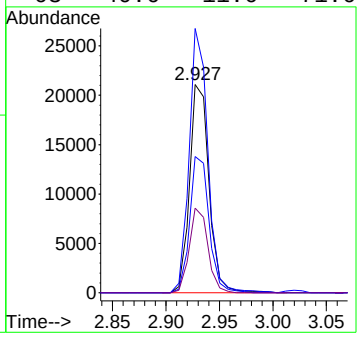


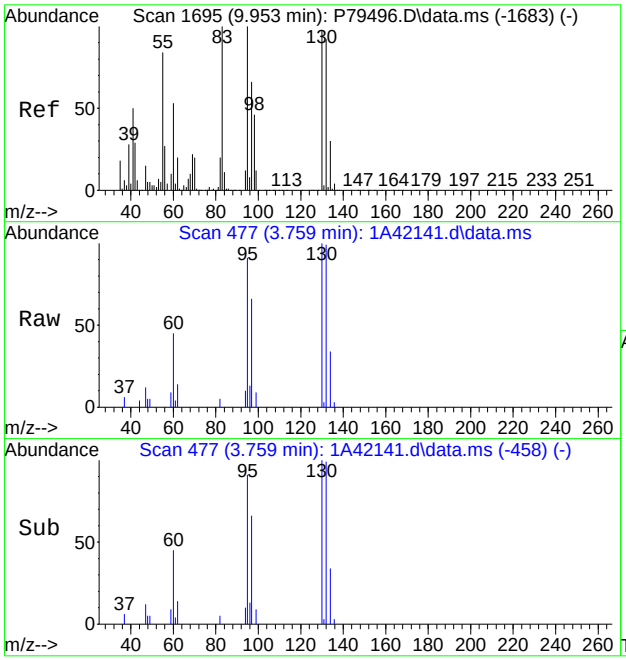


#32
cis-1,2-Dichloroethene
Concen: 20.66 ug/L
RT: 2.927 min Scan# 369
Delta R.T. 0.000 min
Lab File: 1A42141.d
Acq: 13 Dec 2022 5:47 pm

Tgt Ion: 96 Resp: 26681

Ion	Ratio	Lower	Upper
96	100		
61	127.0	99.4	159.4
98	65.5	33.1	93.1
63	40.6	11.6	71.6

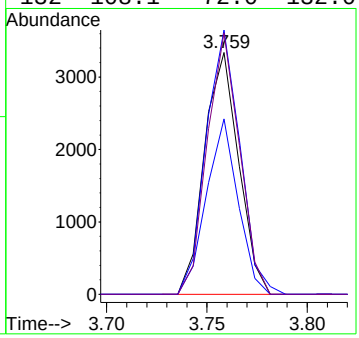




#53
Trichloroethene
Concen: 3.00 ug/L
RT: 3.759 min Scan# 477
Delta R.T. -0.000 min
Lab File: 1A42141.d
Acq: 13 Dec 2022 5:47 pm

Tgt Ion: 95 Resp: 3967

Ion	Ratio	Lower	Upper
95	100		
130	109.3	75.5	135.5
97	72.5	35.0	95.0
132	108.1	72.0	132.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42142.d
Acq On : 13 Dec 2022 6:11 pm
Operator : joannel
Sample : FC1200-29
Misc : MS53004,V1A1697,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 13 23:24:05 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

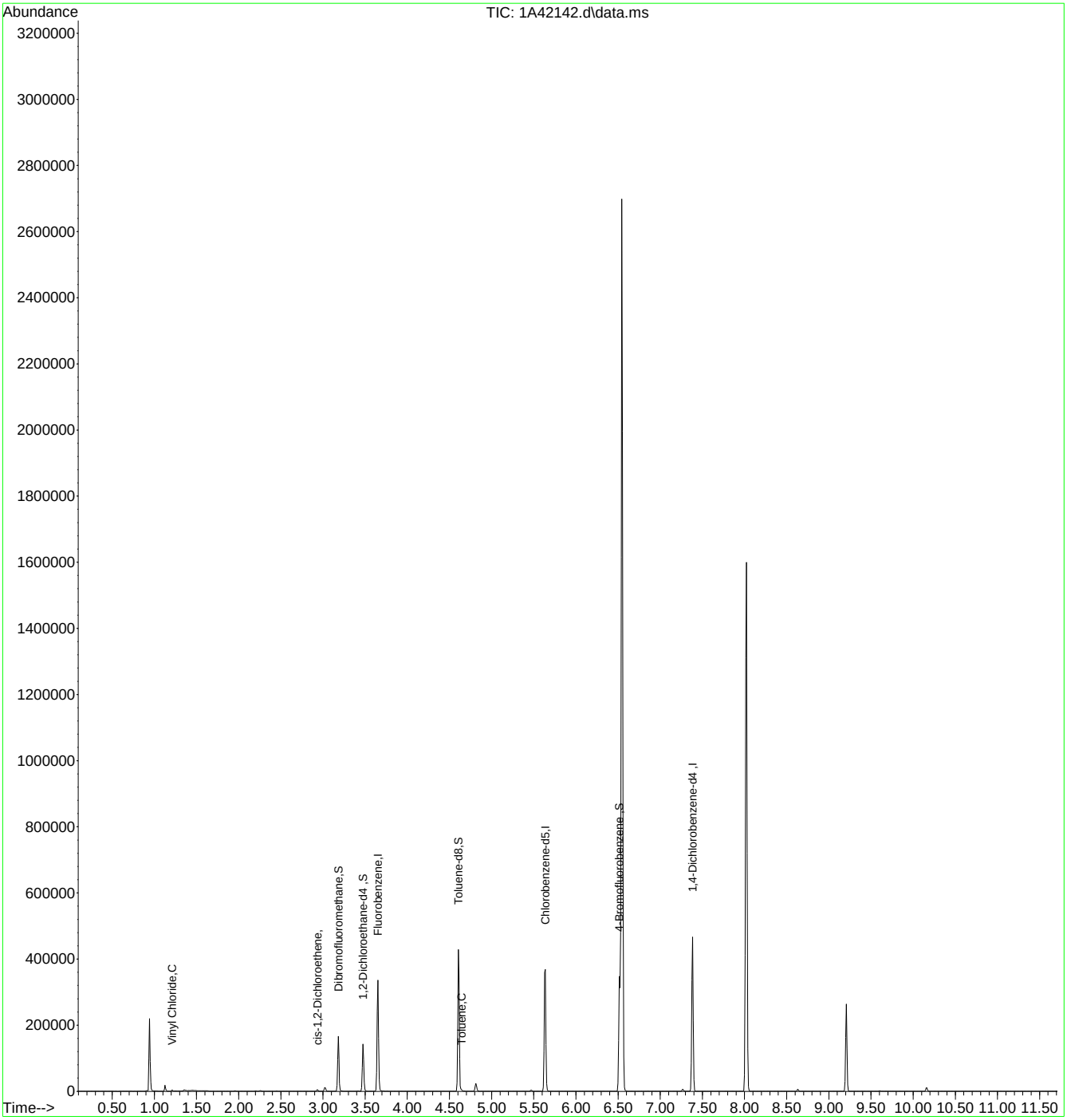
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	3.651	96	191931	50.00 ug/L	0.00
62) Chlorobenzene-d5	5.636	117	163614	50.00 ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	90558	50.00 ug/L	0.00
System Monitoring Compounds					
39) Dibromofluoromethane	3.181	113	58120	47.19 ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.38%		
49) 1,2-Dichloroethane-d4	3.474	65	61040	48.36 ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.72%		
63) Toluene-d8	4.605	98	199271	48.43 ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.86%		
86) 4-Bromofluorobenzene	6.514	174	75275	48.78 ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.56%		
Target Compounds					Qvalue
5) Vinyl Chloride	1.211	62	1995	1.59 ug/L	89
32) cis-1,2-Dichloroethene	2.935	96	1532	1.17 ug/L	87
64) Toluene	4.644	91	1840	0.33 ug/L	94

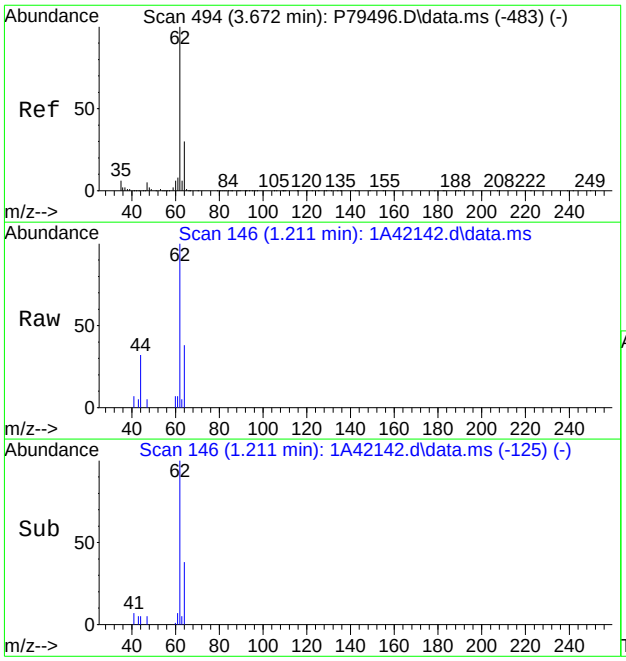
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42142.d
Acq On : 13 Dec 2022 6:11 pm
Operator : joannel
Sample : FC1200-29
Misc : MS53004,V1A1697,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 13 23:24:05 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

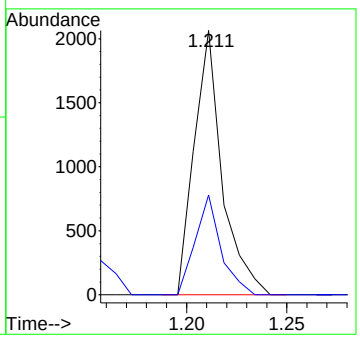


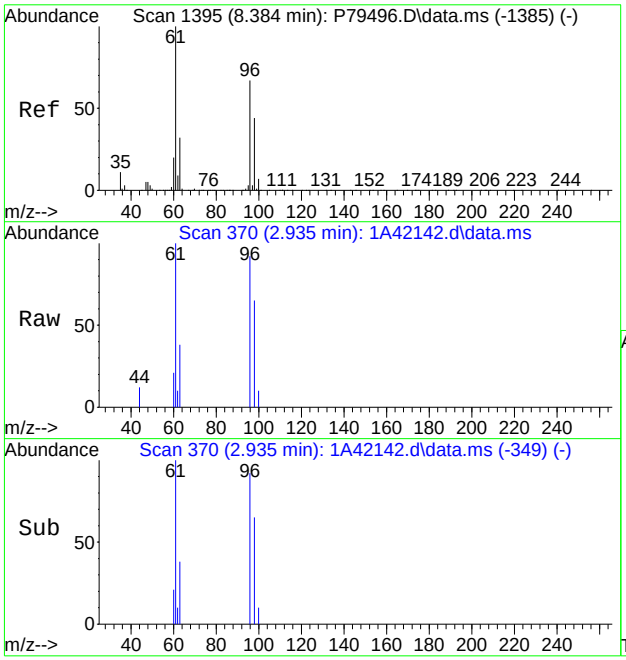


#5
Vinyl Chloride
Concen: 1.59 ug/L
RT: 1.211 min Scan# 146
Delta R.T. 0.008 min
Lab File: 1A42142.d
Acq: 13 Dec 2022 6:11 pm

Tgt Ion: 62 Resp: 1995

Ion	Ratio	Lower	Upper
62	100		
64	37.7	1.6	61.6

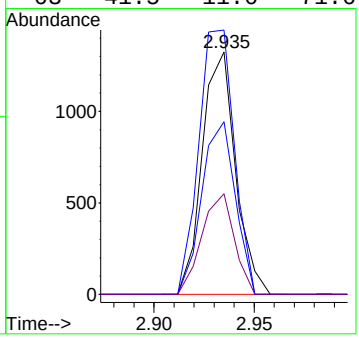


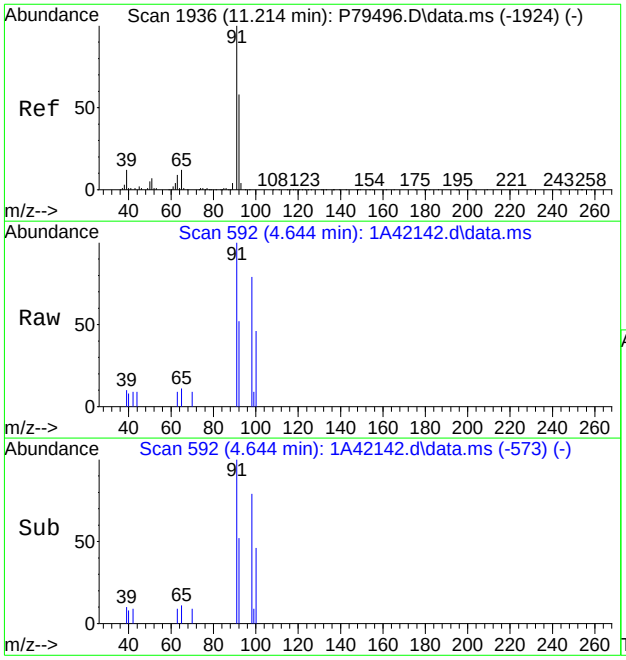


#32
cis-1,2-Dichloroethene
Concen: 1.17 ug/L
RT: 2.935 min Scan# 370
Delta R.T. 0.008 min
Lab File: 1A42142.d
Acq: 13 Dec 2022 6:11 pm

Tgt Ion: 96 Resp: 1532

Ion	Ratio	Lower	Upper
96	100		
61	109.1	99.4	159.4
98	71.2	33.1	93.1
63	41.5	11.6	71.6

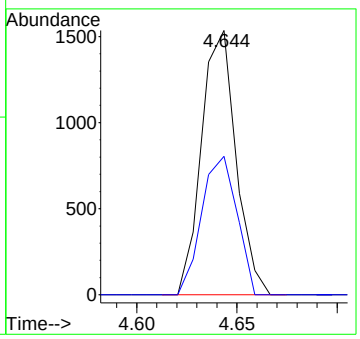




#64
Toluene
Concen: 0.33 ug/L
RT: 4.644 min Scan# 592
Delta R.T. -0.000 min
Lab File: 1A42142.d
Acq: 13 Dec 2022 6:11 pm

Tgt Ion: 91 Resp: 1840

Ion	Ratio	Lower	Upper
91	100		
92	52.4	27.2	87.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96230.D
Acq On : 12 Dec 2022 11:38 am
Operator : courtnef
Sample : MB Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:08:46 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

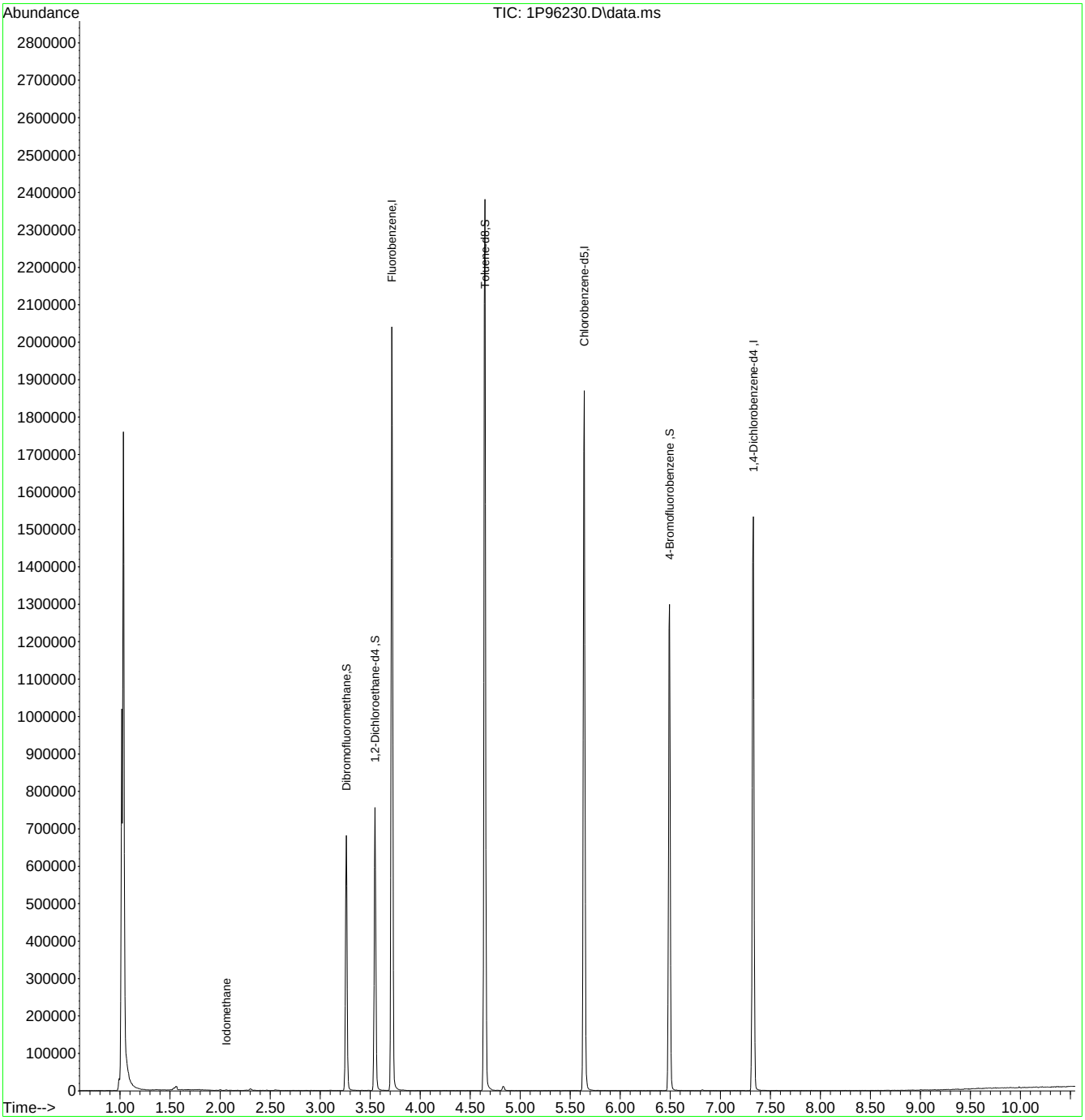
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.716	96	1110651	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	704306	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	291338	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.261	113	236652	51.10	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.20%			
49) 1,2-Dichloroethane-d4	3.549	65	320197	47.97	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 95.94%			
63) Toluene-d8	4.647	98	1025183	49.61	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.22%			
86) 4-Bromofluorobenzene	6.493	174	235663	52.96	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.92%			
Target Compounds						Qvalue
15) Iodomethane	2.063	142	1003	1.71	ug/L	83

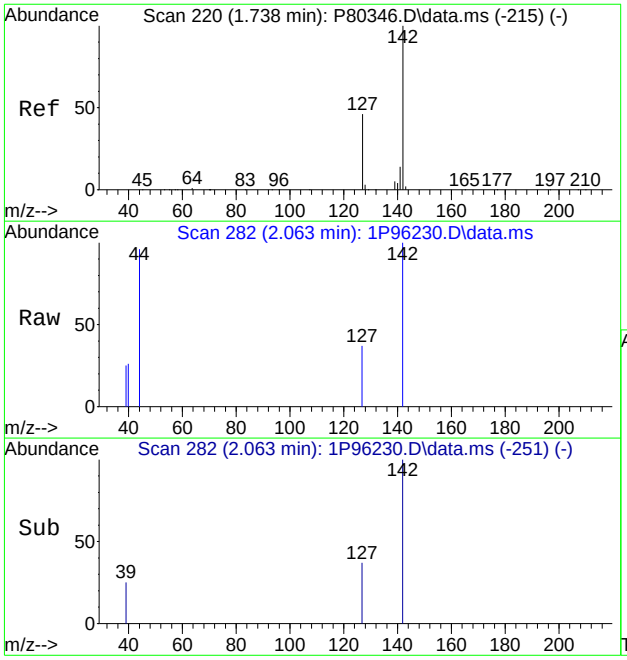
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96230.D
Acq On : 12 Dec 2022 11:38 am
Operator : courtnef
Sample : MB Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:08:46 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

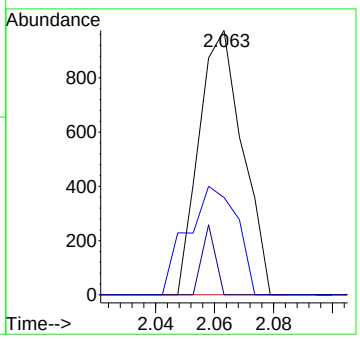




#15
Iodomethane
Concen: 1.71 ug/L
RT: 2.063 min Scan# 282
Delta R.T. 0.013 min
Lab File: 1P96230.D
Acq: 12 Dec 2022 11:38 am

Tgt Ion:142 Resp: 1003

Ion	Ratio	Lower	Upper
142	100		
127	36.8	25.3	65.3
141	0.0	0.0	33.1



7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96231.D
Acq On : 12 Dec 2022 11:54 am
Operator : courtnef
Sample : MB Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:29:33 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

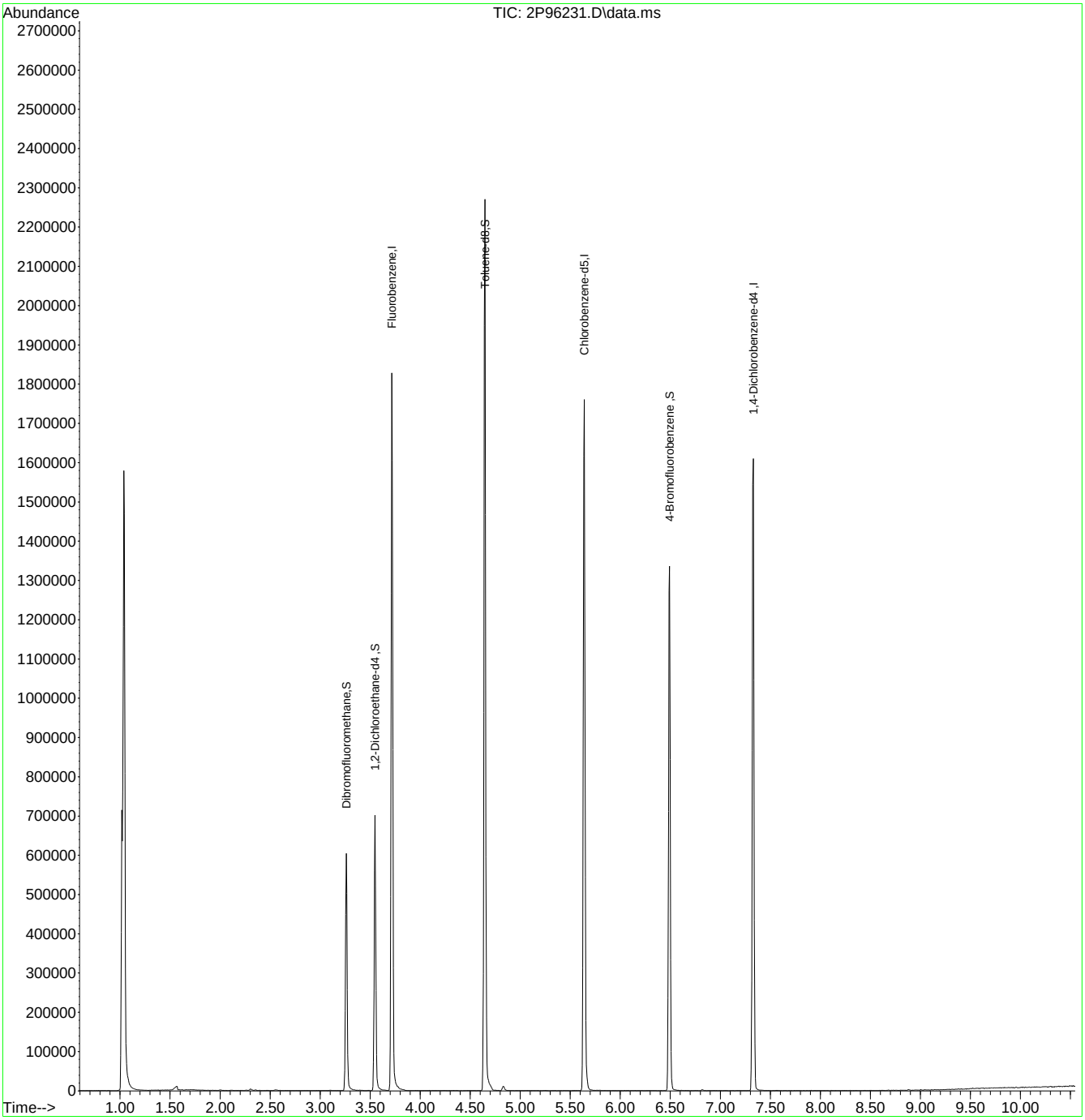
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.716	96	1018363	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	694901	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	299022	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.261	113	218638	51.38	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.76%			
49) 1,2-Dichloroethane-d4	3.549	65	301868	49.30	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.60%			
63) Toluene-d8	4.647	98	968858	49.03	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.06%			
86) 4-Bromofluorobenzene	6.493	174	244547	53.36	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.72%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96231.D
Acq On : 12 Dec 2022 11:54 am
Operator : courtnef
Sample : MB Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 21:29:33 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42123.d
Acq On : 13 Dec 2022 10:38 am
Operator : joannel
Sample : MB
Misc : MS52981,V1A1697,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 13 23:39:33 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	203154	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	168877	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	90825	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	65240	50.05	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.10%			
49) 1,2-Dichloroethane-d4	3.474	65	64926	48.59	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.18%			
63) Toluene-d8	4.605	98	211084	49.70	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.40%			
86) 4-Bromofluorobenzene	6.514	174	76995	49.75	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.50%			

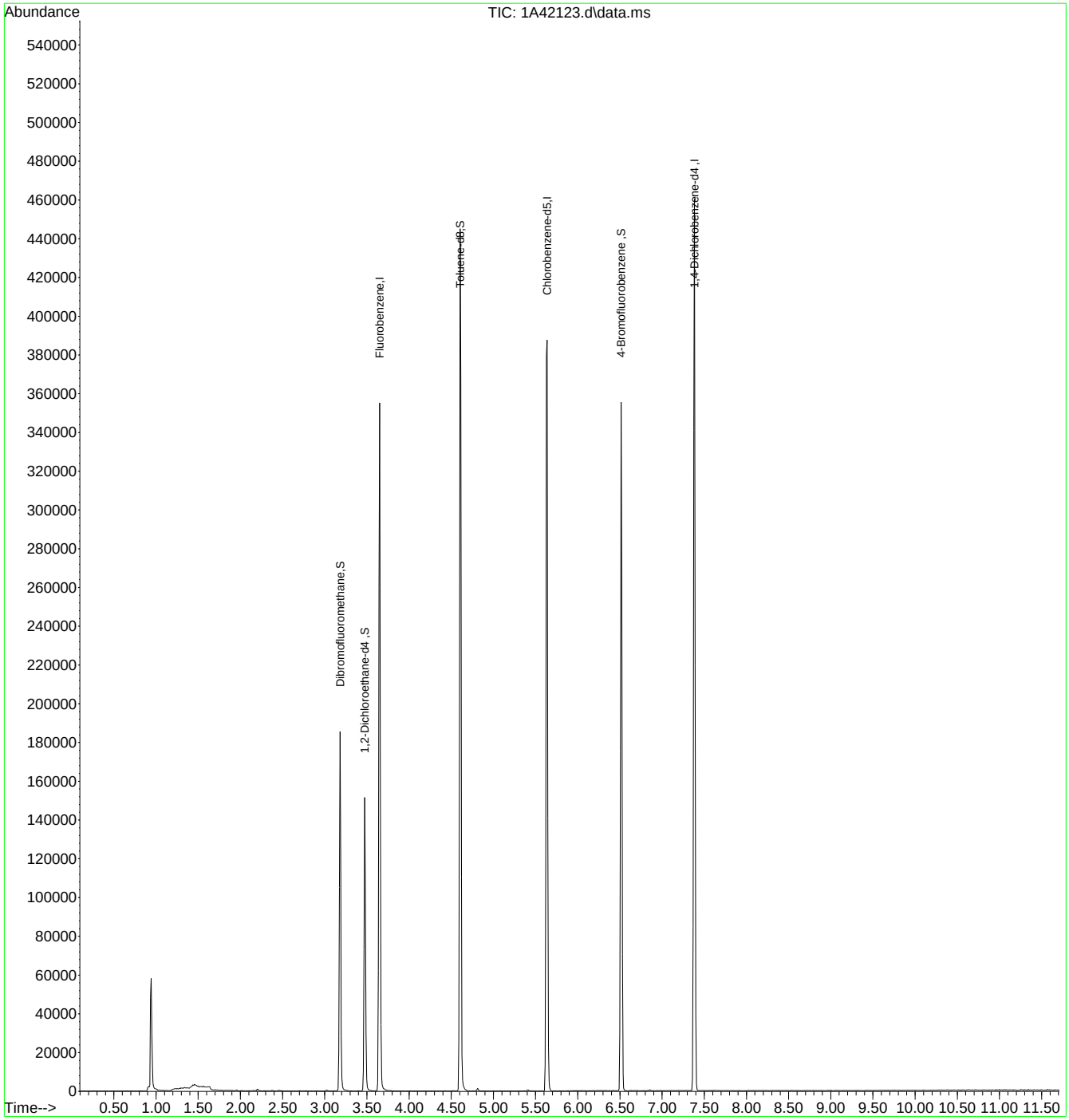
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42123.d
Acq On : 13 Dec 2022 10:38 am
Operator : joannel
Sample : MB
Misc : MS52981,V1A1697,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 13 23:39:33 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P1658-59\
Data File : 2P96279.D
Acq On : 13 Dec 2022 11:54 am
Operator : courtnef
Sample : MB
Misc : MS52806,V2P3658,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 13 19:53:21 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		3.718	96	1013479	50.00	ug/L	0.00
62) Chlorobenzene-d5		5.638	117	724810	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4		7.327	152	314328	50.00	ug/L	0.00
System Monitoring Compounds							
39) Dibromofluoromethane		3.263	113	217267	51.30	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	102.60%		
49) 1,2-Dichloroethane-d4		3.546	65	297599	48.84	ug/L	0.00
Spiked Amount	50.000	Range 79 - 125		Recovery =	97.68%		
63) Toluene-d8		4.644	98	981869	47.64	ug/L	0.00
Spiked Amount	50.000	Range 85 - 112		Recovery =	95.28%		
86) 4-Bromofluorobenzene		6.490	174	256566	53.25	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	106.50%		

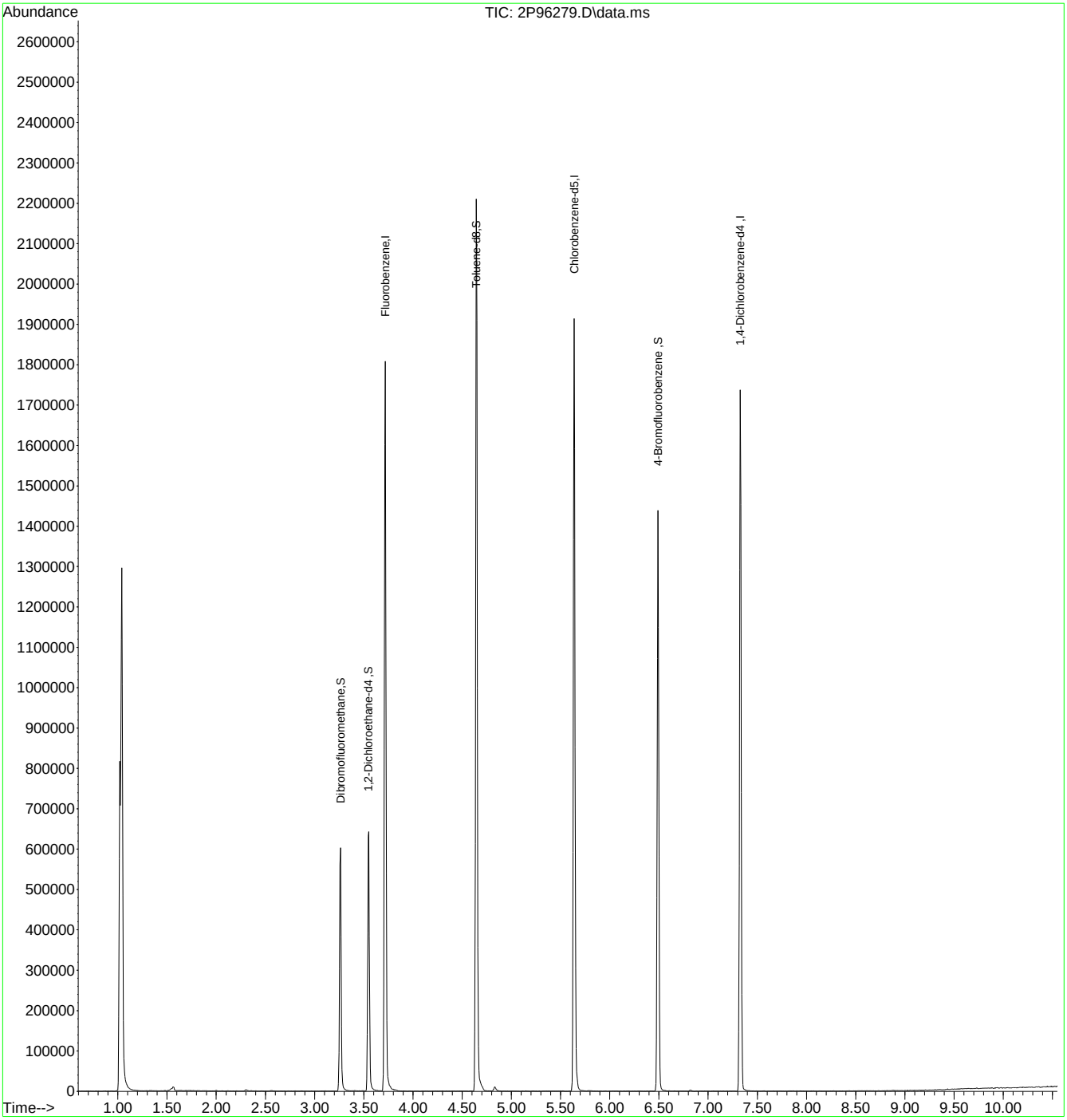
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P1658-59\
Data File : 2P96279.D
Acq On : 13 Dec 2022 11:54 am
Operator : courtnef
Sample : MB
Misc : MS52806,V2P3658,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 13 19:53:21 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42153.d
Acq On : 14 Dec 2022 11:19 am
Operator : joannel
Sample : MB Inst : MSVOA17
Misc : MS52217,V1A1698,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:37:56 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

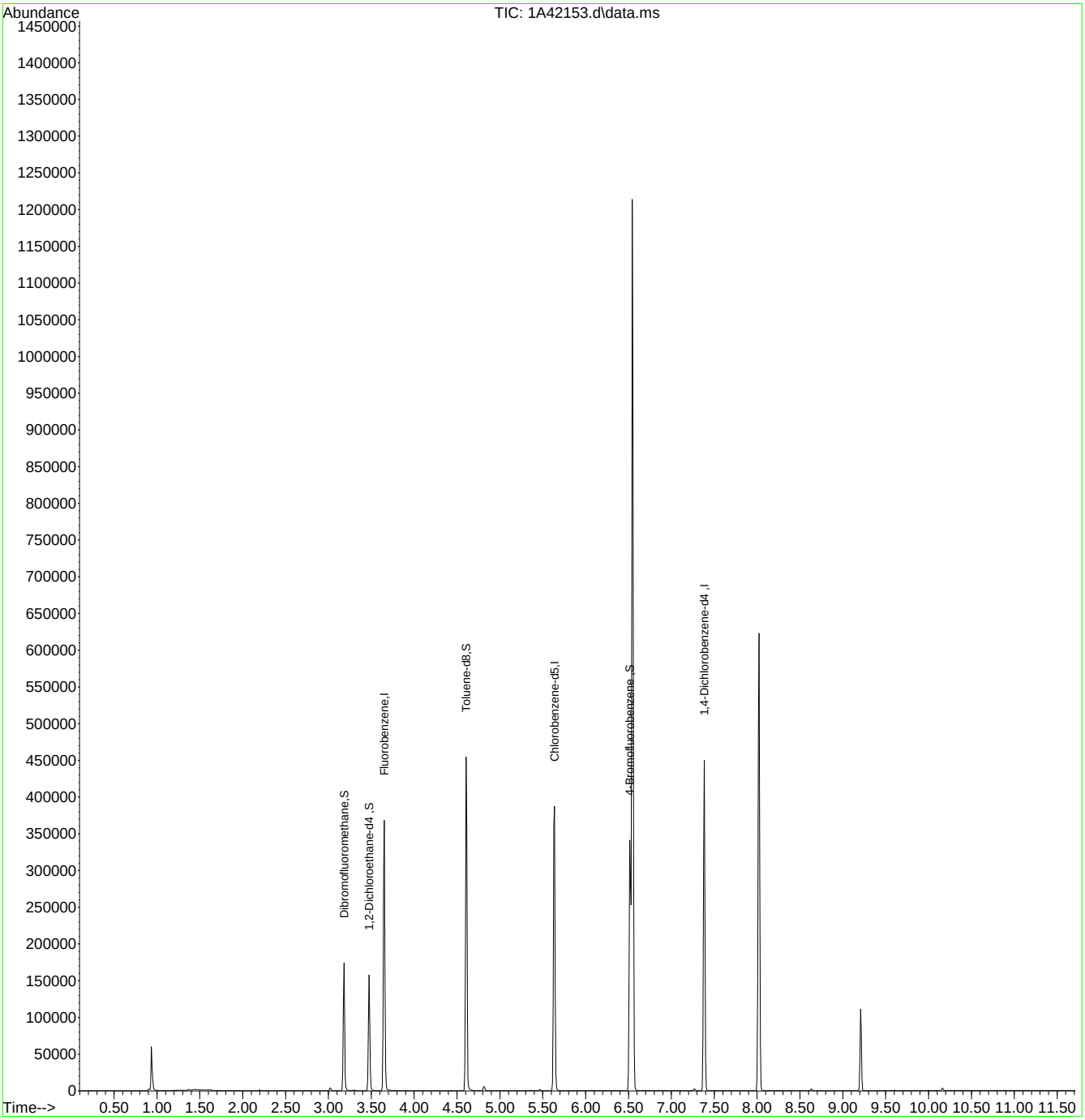
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	213428	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	165844	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.384	152	88641	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	60976	44.53	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 89.06%			
49) 1,2-Dichloroethane-d4	3.474	65	67491	48.08	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.16%			
63) Toluene-d8	4.605	98	211046	50.60	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.20%			
86) 4-Bromofluorobenzene	6.514	174	74317	49.21	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.42%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42153.d
Acq On : 14 Dec 2022 11:19 am
Operator : joannel
Sample : MB Inst : MSVOA17
Misc : MS52217,V1A1698,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:37:56 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753619.d
Acq On : 15 Dec 2022 10:54 am
Operator : kylieg
Sample : MB Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:09:01 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

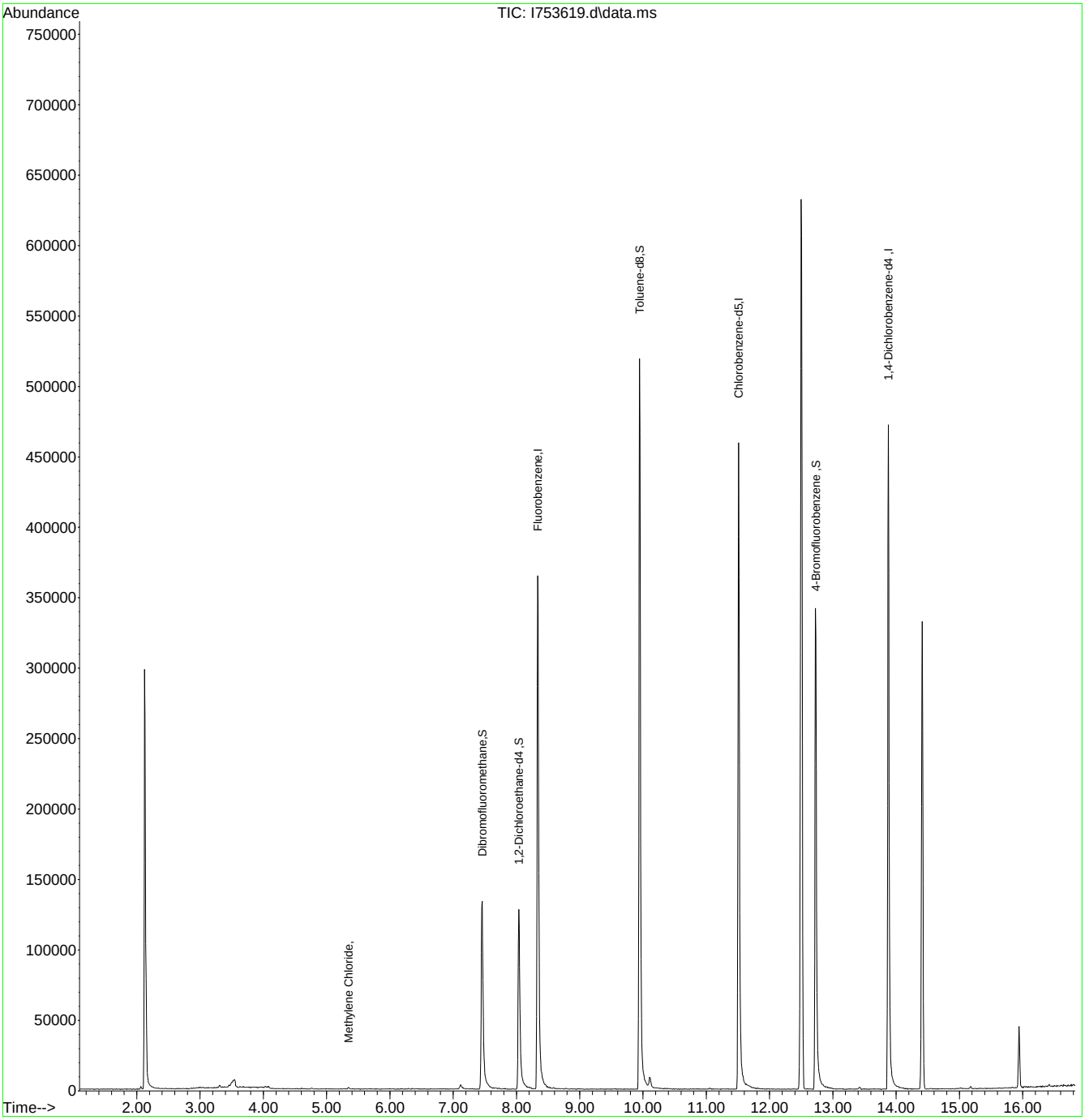
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.335	96	311459	50.00	ug/L	0.00
62) Chlorobenzene-d5	11.512	117	239880	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.877	152	119879	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.457	113	87846	52.85	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.70%			
49) 1,2-Dichloroethane-d4	8.037	65	97978	51.07	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.14%			
63) Toluene-d8	9.945	98	315838	46.69	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 93.38%			
86) 4-Bromofluorobenzene	12.731	174	101171	51.28	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.56%			
Target Compounds						Qvalue
18) Methylene Chloride	5.348	49	774	0.36	ug/L	75

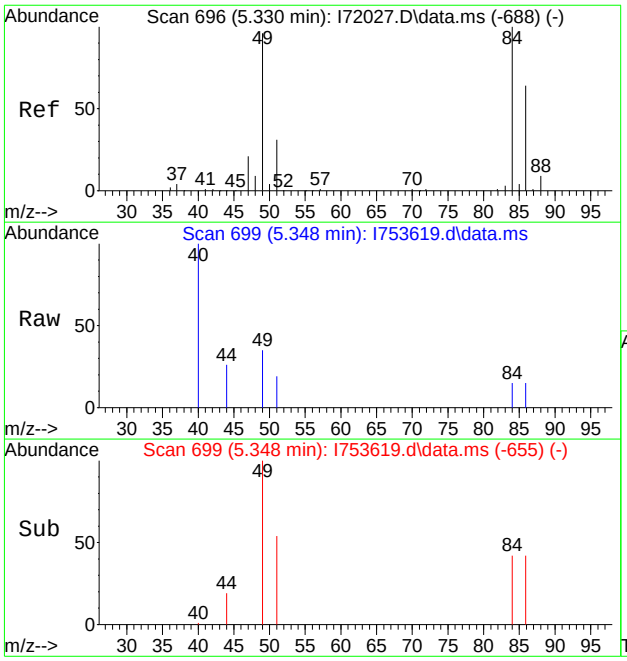
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753619.d
Acq On : 15 Dec 2022 10:54 am
Operator : kylieg
Sample : MB Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:09:01 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

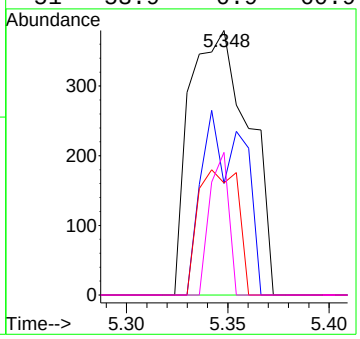




#18
Methylene Chloride
Concen: 0.36 ug/L
RT: 5.348 min Scan# 699
Delta R.T. 0.018 min
Lab File: I753619.d
Acq: 15 Dec 2022 10:54 am

Tgt Ion: 49 Resp: 774

Ion	Ratio	Lower	Upper
49	100		
84	42.1	32.6	92.6
86	42.4	7.8	67.8
51	53.9	0.9	60.9



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/14/22 01:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96226.D
Acq On : 12 Dec 2022 10:34 am
Operator : courtnef
Sample : BS
Misc : MS52806,V1P3644,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 10:47:14 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.717	96	1115635	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.642	117	728730	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.331	152	324170	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.262	113	243883	52.42	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.84%			
49) 1,2-Dichloroethane-d4	3.550	65	335264	50.01	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.02%			
63) Toluene-d8	4.643	98	1049033	49.06	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.12%			
86) 4-Bromofluorobenzene	6.494	174	255011	51.50	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.123	85	99641	25.25	ug/L	98
3) Chloromethane	1.243	50	112465	20.42	ug/L	97
4) 1,3-butadiene	1.316	39	125181	23.47	ug/L	97
5) Vinyl Chloride	1.306	62	114211	23.17	ug/L	99
6) Bromomethane	1.505	94	40672	80.16	ug/L	97
7) Chloroethane	1.583	64	41690	27.24	ug/L	98
8) Trichlorofluoromethane	1.672	101	139106	25.22	ug/L	97
9) Ethyl Ether	1.876	59	94510	21.28	ug/L	95
10) Ethanol	1.960	45	54334m	354.90	ug/L	
11) 1,2-Dichlorotrifluoroe...	1.975	67	132060	24.72	ug/L	98
12) 1,1-Dichloroethene	1.981	61	157969	24.74	ug/L	94
13) Freon 113	2.012	101	108448	29.61	ug/L	97
14) Carbon Disulfide	1.996	76	302509	24.54	ug/L	96
15) Iodomethane	2.059	142	86656	147.17	ug/L	95
16) Acrolein	2.153	56	145682	103.32	ug/L	99
17) Allyl chloride	2.242	41	177856	34.30	ug/L	90
18) Methylene Chloride	2.300	49	124662	19.33	ug/L	98
19) Acetone	2.315	43	306742	105.15	ug/L	98
20) Methyl acetate	2.394	43	740507	112.27	ug/L	97
21) trans-1,2-Dichloroethene	2.399	61	154371	25.23	ug/L	98
22) Hexane	2.467	56	97664	28.98	ug/L	90
23) Methyl Tert Butyl Ether	2.467	73	355820	24.64	ug/L	77
24) Tert Butyl Alcohol	2.509	59	313314	210.06	ug/L	99
25) Acetonitrile	2.551	41	218761	223.79	ug/L	98
26) Di-isopropyl ether	2.687	45	368498	24.66	ug/L	97
27) Chloroprene	2.723	53	519566	23.21	ug/L	97
28) 1,1-Dichloroethane	2.729	63	207808	26.36	ug/L	99
29) Acrylonitrile	2.729	52	325847	110.30	ug/L	98
30) ETBE	2.880	59	347177	23.83	ug/L	98
31) Vinyl acetate	2.859	43	1500357	132.96	ug/L	98
32) cis-1,2-Dichloroethene	3.021	96	112547	25.91	ug/L	97
33) 2,2-Dichloropropane	3.084	77	167427	25.63	ug/L	98
34) Bromochloromethane	3.126	128	45771	26.10	ug/L	90
35) Cyclohexane	3.163	56	203112	28.53	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96226.D
Acq On : 12 Dec 2022 10:34 am
Operator : courtnef
Sample : BS
Misc : MS52806,V1P3644,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 10:47:14 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Chloroform	3.163	83	199876	25.75	ug/L	98
37) Ethyl acetate	3.225	43	946004	117.78	ug/L	99
38) Tetrahydrofuran	3.257	42	74011	23.76	ug/L	98
40) Carbon Tetrachloride	3.267	117	144508m	30.82	ug/L	
41) 1,1,1-Trichloroethane	3.293	97	175546	27.14	ug/L	93
42) 2-Butanone	3.314	43	547904	115.72	ug/L	99
43) 1,1-Dichloropropene	3.361	75	153083	25.73	ug/L	97
44) tert-Butyl formate	3.403	59	403201	118.53	ug/L	95
45) Propionitrile	3.455	54	291405	226.59	ug/L	97
46) Methacrylonitrile	3.482	41	1040998	225.46	ug/L	99
47) Benzene	3.492	78	452142	23.75	ug/L	98
48) TAME	3.565	73	332166	24.51	ug/L	96
50) Isobutyl alcohol	3.591	43	326468m	415.65	ug/L	
51) 1,2-Dichloroethane	3.586	62	147958	23.26	ug/L	98
52) Tert Amyl Alcohol	3.649	59	246086	207.50	ug/L	98
53) Trichloroethene	3.822	95	110767	24.67	ug/L	96
54) Methylcyclohexane	3.843	83	188463	29.48	ug/L	98
55) Dibromomethane	4.047	93	60197	23.68	ug/L	93
56) 1,2-Dichloropropane	4.104	63	106985	23.92	ug/L	97
57) Bromodichloromethane	4.141	83	134276	28.16	ug/L	99
58) Methyl methacrylate	4.235	41	125500	24.32	ug/L	90
59) 1,4-Dioxane	4.256	88	49027	493.19	ug/L	92
60) 2-Chloroethyl vinyl ether	4.475	63	449780	321.16	ug/L	94
61) cis-1,3-Dichloropropene	4.517	75	173201	27.52	ug/L	93
64) Toluene	4.679	91	460834	23.96	ug/L	100
65) 2-Nitropropane	4.774	41	219656	113.09	ug/L	97
66) 4-Methyl-2-pentanone	4.889	43	922934	113.73	ug/L	98
67) trans-1,3-Dichloropropene	4.915	75	159200	28.45	ug/L	91
68) Tetrachloroethene	4.936	166	105697	28.12	ug/L	96
69) Ethyl methacrylate	5.025	69	148239	23.89	ug/L	92
70) 1,1,2-Trichloroethane	5.014	83	79890	24.21	ug/L	96
71) Dibromochloromethane	5.140	129	88628	28.95	ug/L	99
72) 1,3-Dichloropropane	5.192	76	164591	22.45	ug/L	94
73) 1,2-Dibromoethane	5.291	107	93677	25.15	ug/L	91
74) 3,3-dimethyl-1-butanol	5.427	57	1256186	1012.92	ug/L	99
75) 2-hexanone	5.427	43	916080	102.13	ug/L	95
76) 1-Chlorohexane	5.647	91	158055m	26.96	ug/L	
77) Ethylbenzene	5.678	91	482123	23.93	ug/L	98
78) Chlorobenzene	5.652	112	258603	23.85	ug/L	98
79) 1,1,1,2-Tetrachloroethane	5.694	131	90349	27.81	ug/L	96
80) m,p-Xylene	5.778	91	753189	48.33	ug/L	99
81) o-Xylene	6.076	91	369227	23.99	ug/L	99
82) Styrene	6.107	104	273088	25.29	ug/L	99
83) Bromoform	6.112	173	53800	33.69	ug/L	97
84) Isopropylbenzene	6.306	105	432152	25.39	ug/L	98
87) cis-1,4-Dichloro-2-butene	6.526	53	45888	24.32	ug/L	86
88) n-Propylbenzene	6.604	91	523875	23.58	ug/L	99
89) Bromobenzene	6.567	156	93071	23.26	ug/L	92
90) 1,1,2,2-Tetrachloroethane	6.625	83	141802	22.72	ug/L	99
91) 1,3,5-Trimethylbenzene	6.756	105	339905	22.99	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96226.D
Acq On : 12 Dec 2022 10:34 am
Operator : courtnef
Sample : BS
Misc : MS52806,V1P3644,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 10:47:14 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

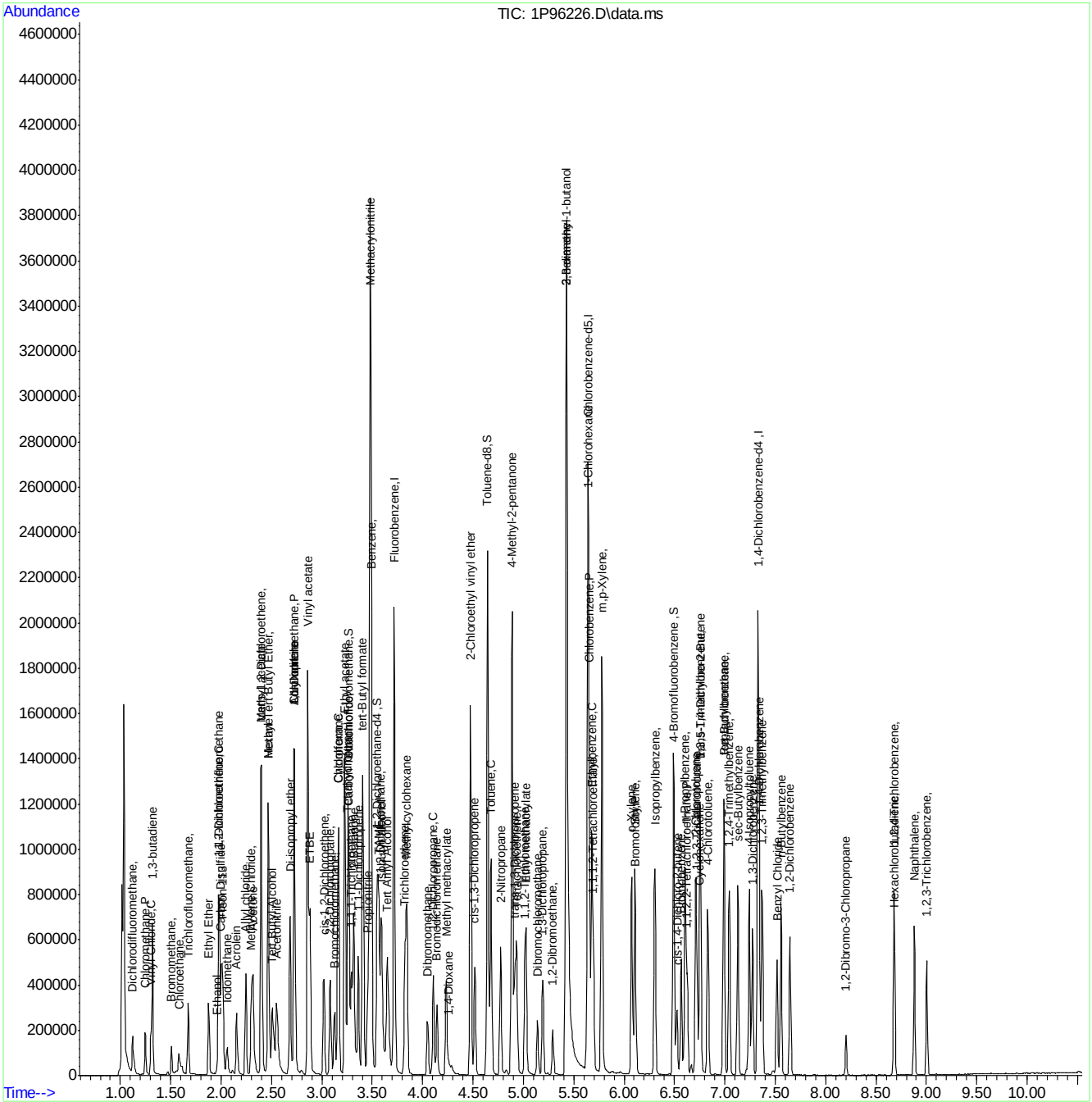
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.709	91	298055	22.57	ug/L		98
93)	trans-1,4-Dichloro-2-B...	6.756	53	56650	25.29	ug/L		86
94)	1,2,3-Trichloropropane	6.719	110	45451	20.72	ug/L		95
95)	Cyclohexanone	6.745	55	40757	95.24	ug/L		96
96)	4-Chlorotoluene	6.829	91	321452	23.24	ug/L		99
97)	tert-Butylbenzene	6.991	91	194436	23.23	ug/L		97
99)	1,2,4-Trimethylbenzene	7.043	105	328065	22.81	ug/L		98
100)	Pentachloroethane	6.991	167	53670	30.88	ug/L	#	70
101)	sec-Butylbenzene	7.127	105	406193	25.13	ug/L		100
102)	4-Isopropyltoluene	7.242	119	342662	25.36	ug/L		97
103)	1,3-Dichlorobenzene	7.274	146	182965	24.95	ug/L		97
104)	1,2,3-Trimethylbenzene	7.368	105	337566	23.68	ug/L		100
105)	1,4-Dichlorobenzene	7.341	146	184787	24.32	ug/L		97
106)	n-Butylbenzene	7.556	92	158454	22.54	ug/L		96
107)	Benzyl Chloride	7.519	126	51265	28.76	ug/L	#	89
108)	1,2-Dichlorobenzene	7.645	146	168188	24.45	ug/L		96
109)	1,2-Dibromo-3-Chloropr...	8.199	75	31800	22.86	ug/L		91
110)	Hexachlorobutadiene	8.686	225	41382	32.65	ug/L		92
111)	1,2,4-Trichlorobenzene	8.680	180	90744	24.23	ug/L		98
112)	Naphthalene	8.879	128	310060	18.79	ug/L		100
113)	1,2,3-Trichlorobenzene	9.005	180	91716	26.48	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96226.D
Acq On : 12 Dec 2022 10:34 am
Operator : courtnef
Sample : BS
Misc : MS52806,V1P3644,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 10:47:14 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



Manual Integration Approval Summary

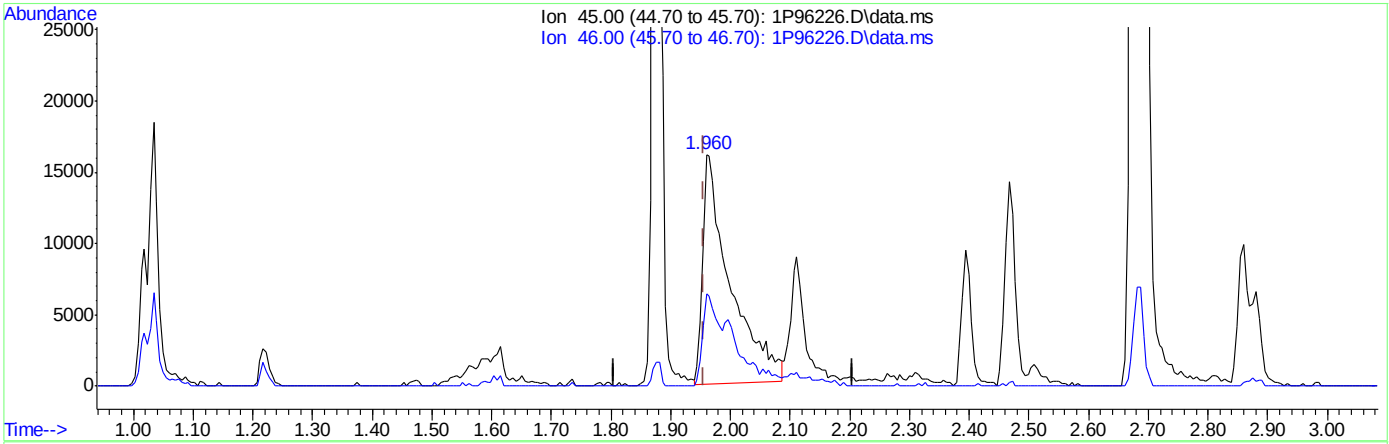
Sample Number: V1P3644-BS
Lab FileID: 1P96226.D
Injection Time: 12/12/22 10:34
Method: SW846 8260D
Analyst approved: 12/12/22 10:51 Courtney Failla
Supervisor approved: 12/14/22 01:34 Jennifer Fereira

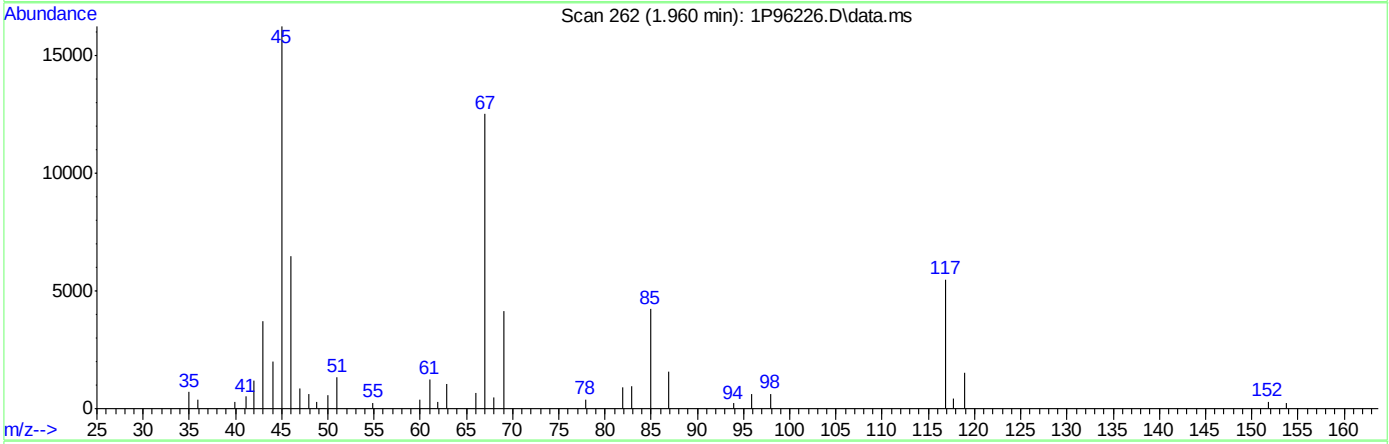
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.96	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96226.D
Acq On : 12 Dec 2022 10:34 am
Operator : courtnef
Sample : BS
Misc : MS52806,V1P3644,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 10:46:35 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96226.D\data.ms

(10) Ethanol

1.960min (+0.004) 336.29ug/L

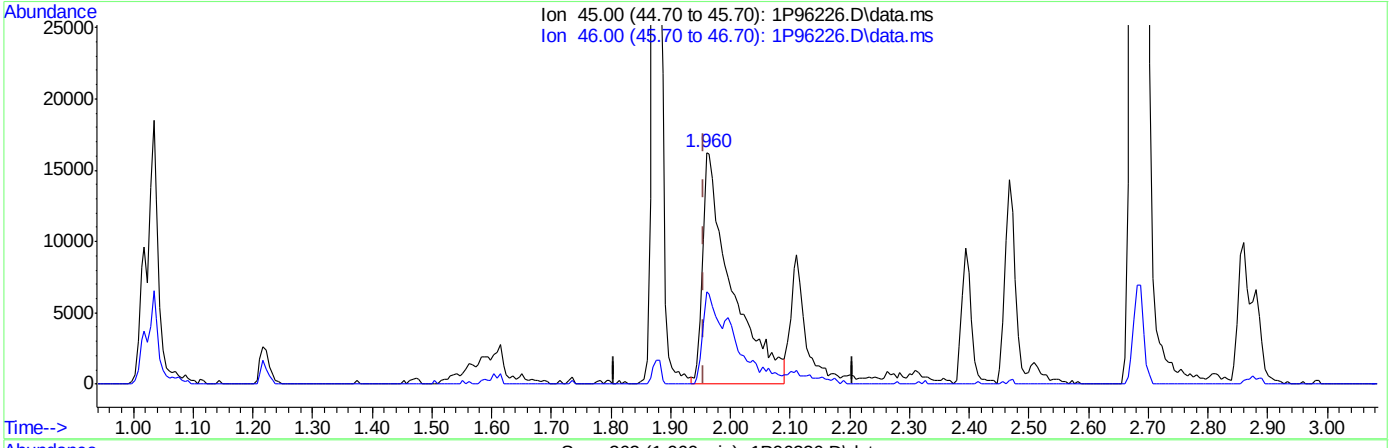
response 51732

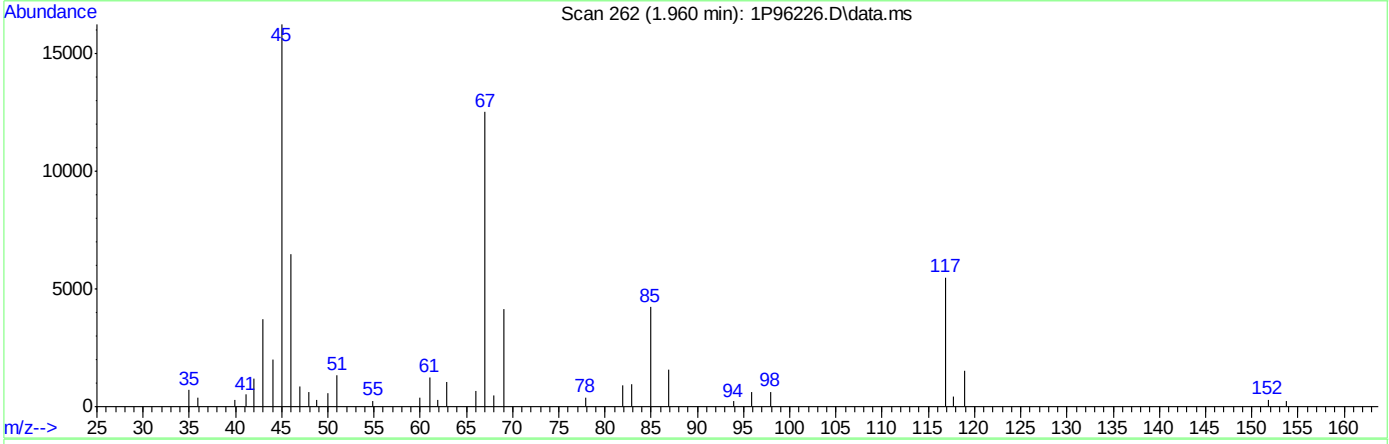
Ion	Exp%	Act%
45.00	100	100
46.00	44.30	40.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96226.D
Acq On : 12 Dec 2022 10:34 am
Operator : courtnef
Sample : BS
Misc : MS52806,V1P3644,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 10:46:35 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96226.D\data.ms

(10) Ethanol

1.960min (+0.004) 354.90ug/L m

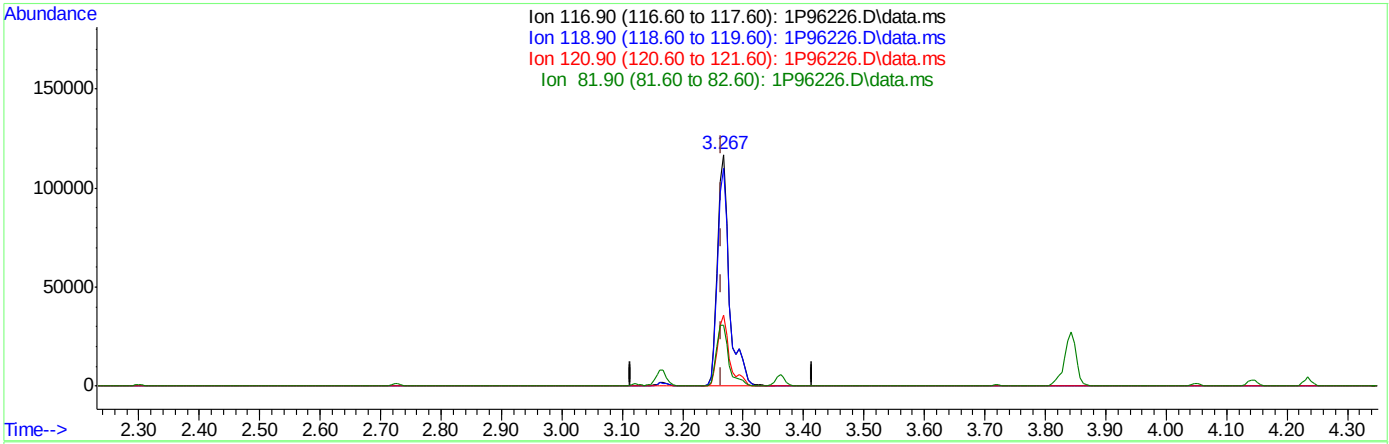
response 54334

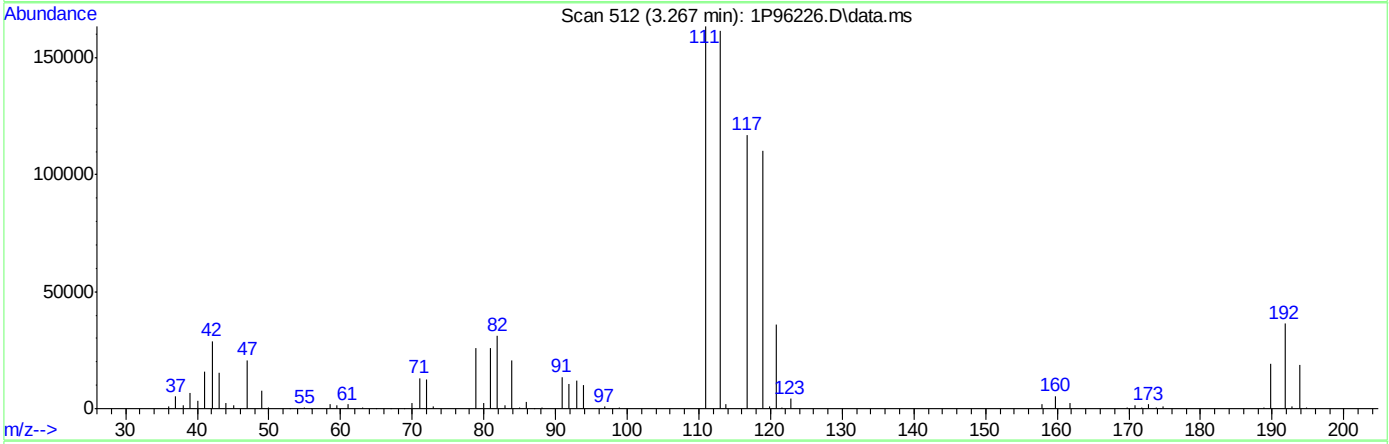
Ion	Exp%	Act%
45.00	100	100
46.00	44.30	39.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96226.D
Acq On : 12 Dec 2022 10:34 am
Operator : courtnef
Sample : BS
Misc : MS52806,V1P3644,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 10:46:35 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96226.D\data.ms

(40) Carbon Tetrachloride ( )

3.267min (+0.003) 34.00ug/L

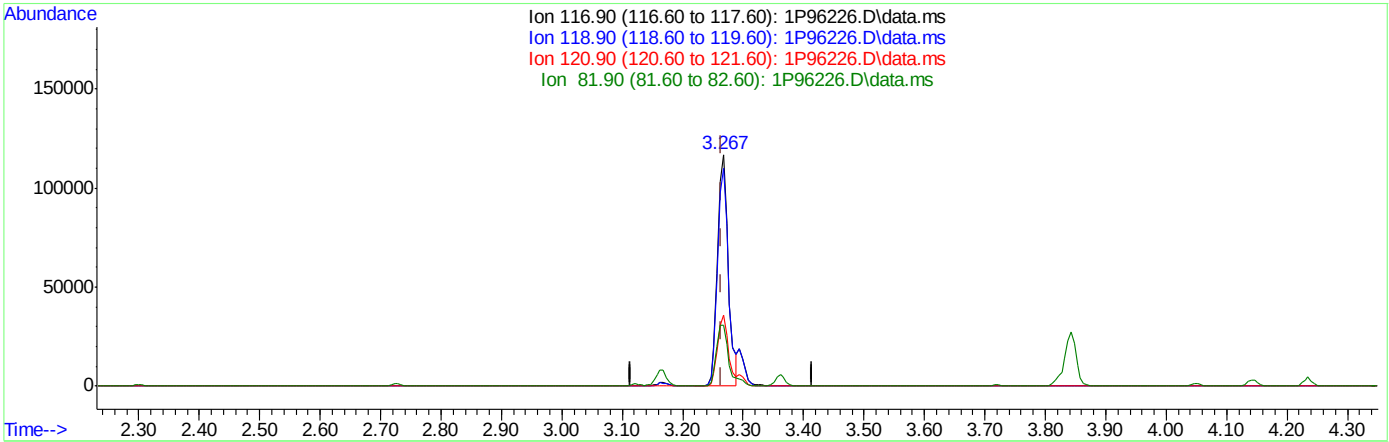
response 159418

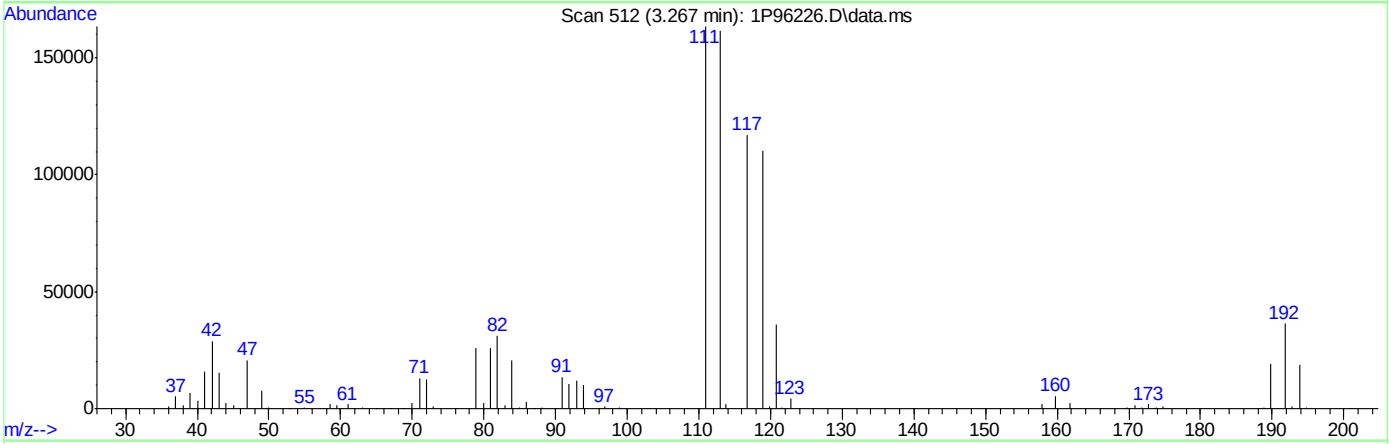
Ion	Exp%	Act%
116.90	100	100
118.90	97.80	94.28
120.90	31.00	30.95
81.90	30.20	26.54

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96226.D
Acq On : 12 Dec 2022 10:34 am
Operator : courtnef
Sample : BS
Misc : MS52806,V1P3644,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 10:46:35 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96226.D\data.ms

(40) Carbon Tetrachloride ( )

3.267min (+0.003) 30.82ug/L m

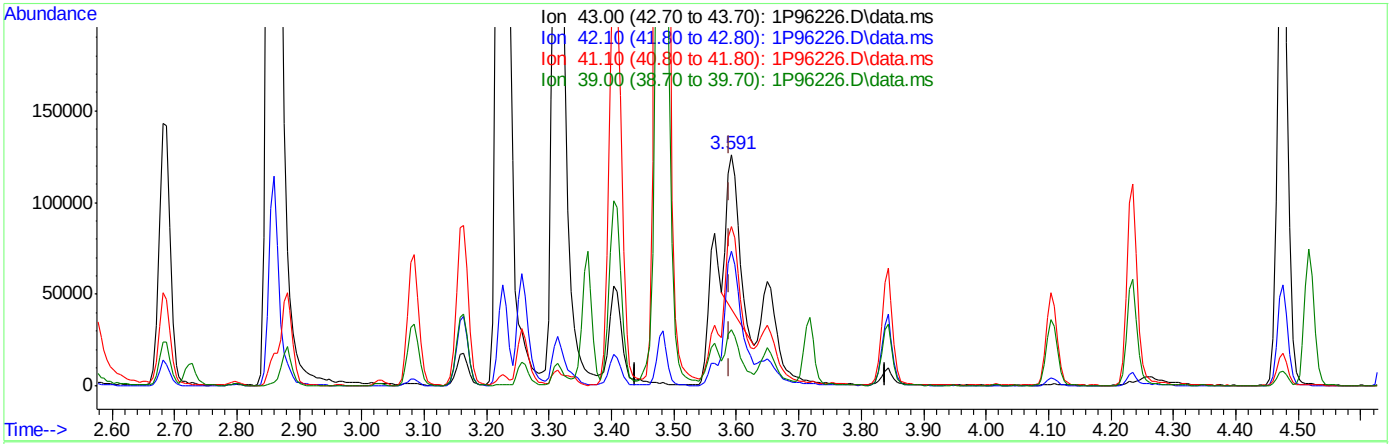
response 144508

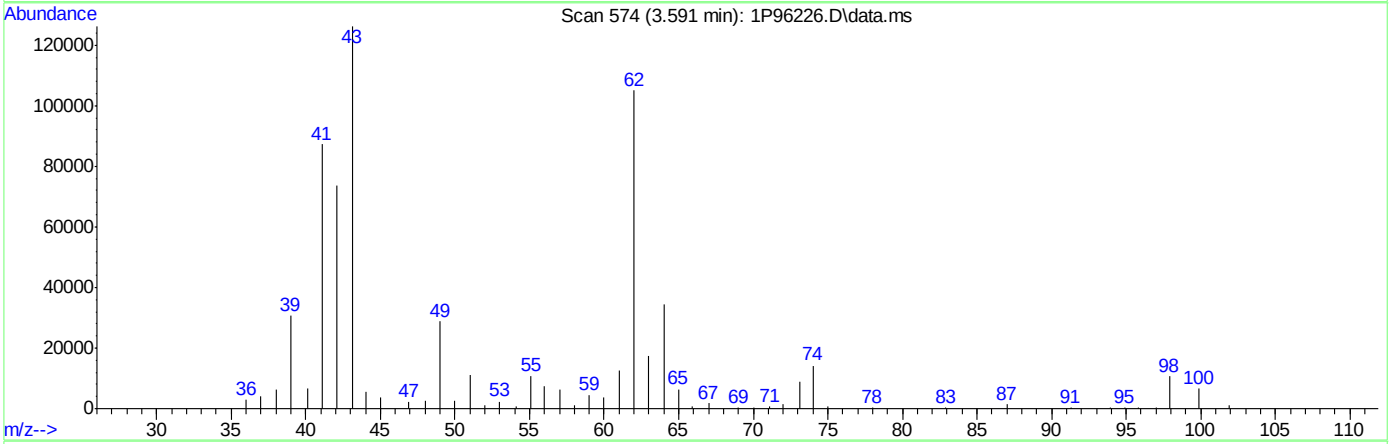
Ion	Exp%	Act%
116.90	100	100
118.90	97.80	94.28
120.90	31.00	30.62
81.90	30.20	26.54

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96226.D
Acq On : 12 Dec 2022 10:34 am
Operator : courtnef
Sample : BS
Misc : MS52806,V1P3644,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 10:46:35 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96226.D\data.ms

(50) Isobutyl alcohol

3.591min (+0.003) 139.23ug/L

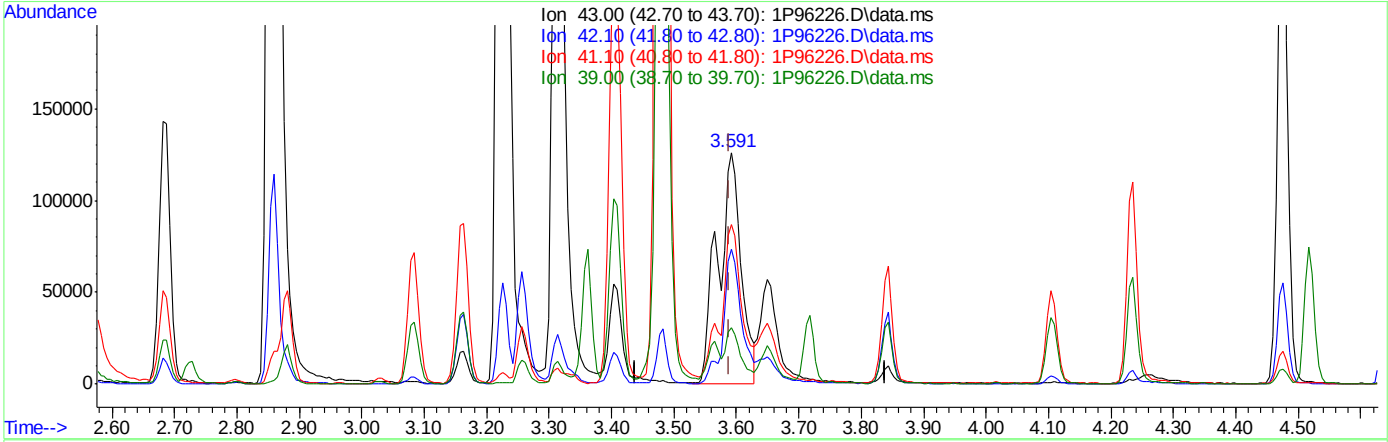
response 109360

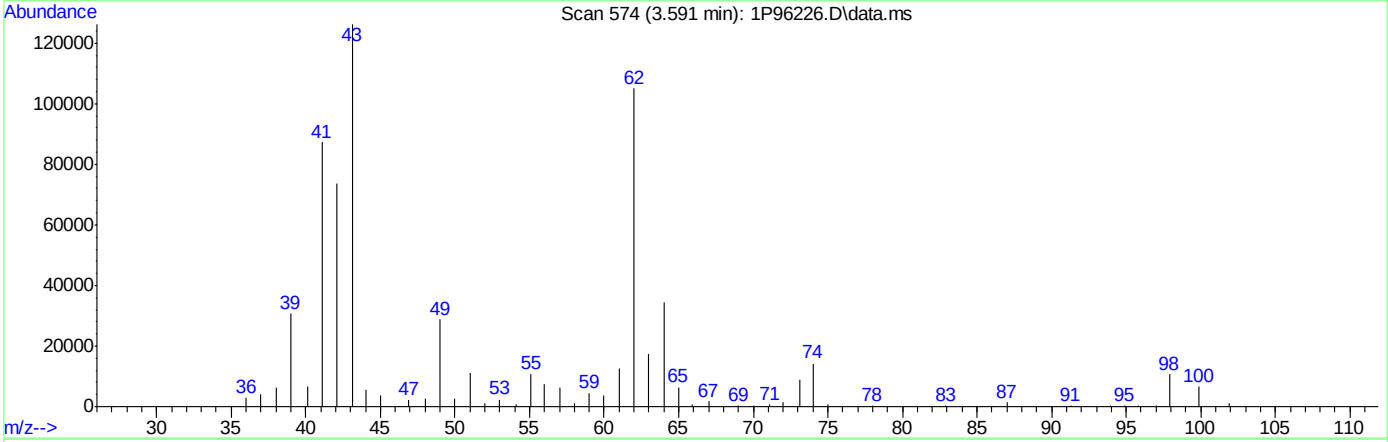
Ion	Exp%	Act%
43.00	100	100
42.10	59.60	59.27
41.10	71.40	64.26
39.00	26.20	23.35

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96226.D
Acq On : 12 Dec 2022 10:34 am
Operator : courtnef
Sample : BS
Misc : MS52806,V1P3644,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 10:46:35 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96226.D\data.ms

(50) Isobutyl alcohol

3.591min (+0.003) 415.65ug/L m

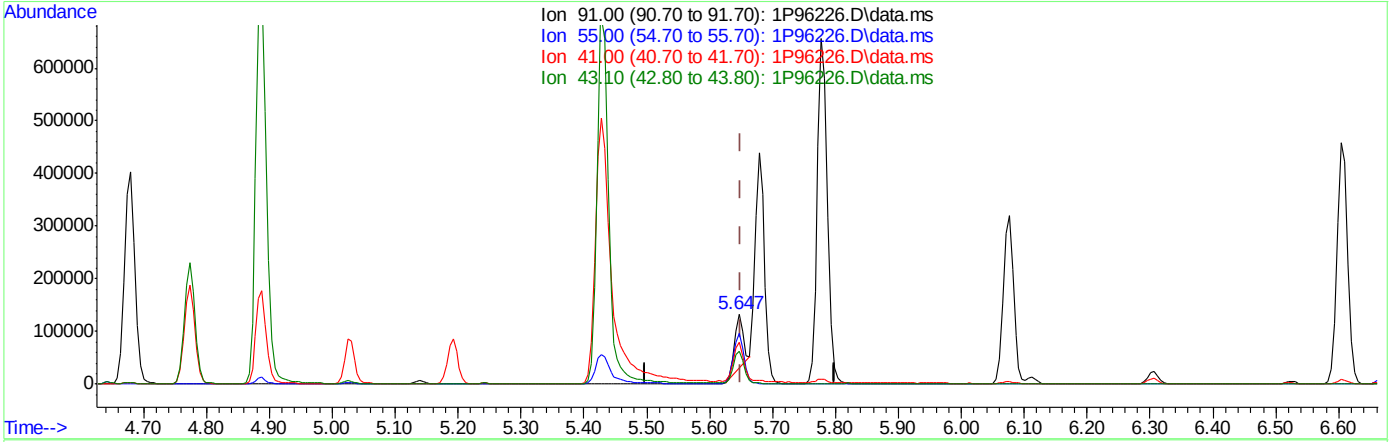
response 326468

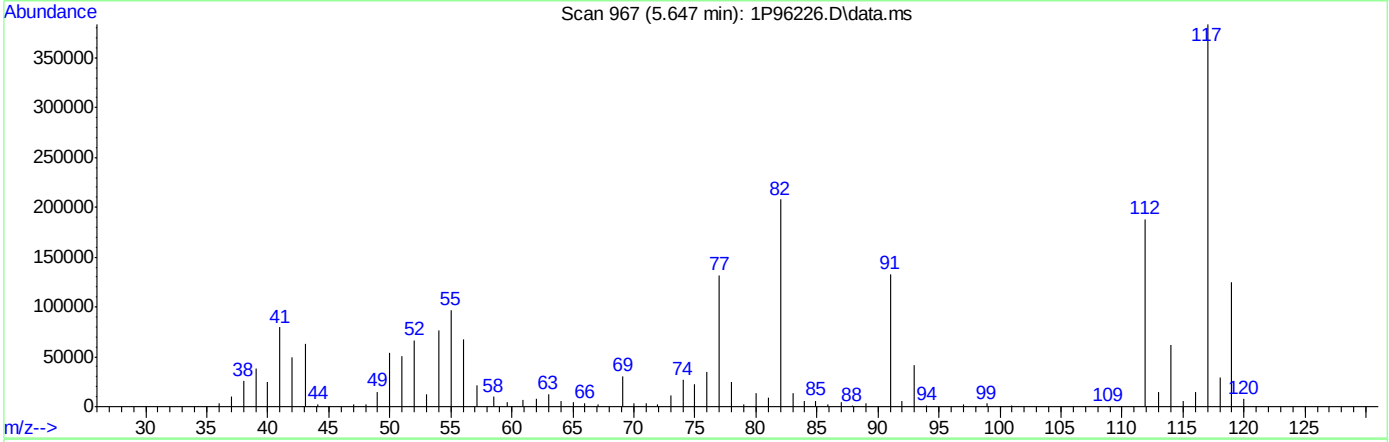
Ion	Exp%	Act%
43.00	100	100
42.10	59.60	58.31
41.10	71.40	69.10
39.00	26.20	24.29

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96226.D
Acq On : 12 Dec 2022 10:34 am
Operator : courtnef
Sample : BS
Misc : MS52806,V1P3644,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 10:46:35 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96226.D\data.ms

(76) 1-Chlorohexane

5.647min (-0.002) 16.85ug/L

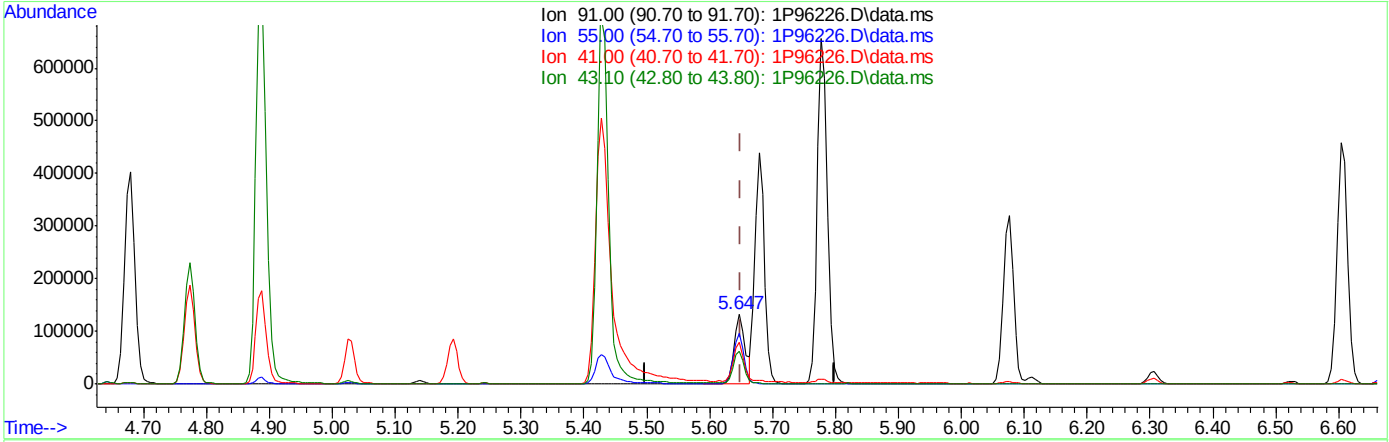
response 98681

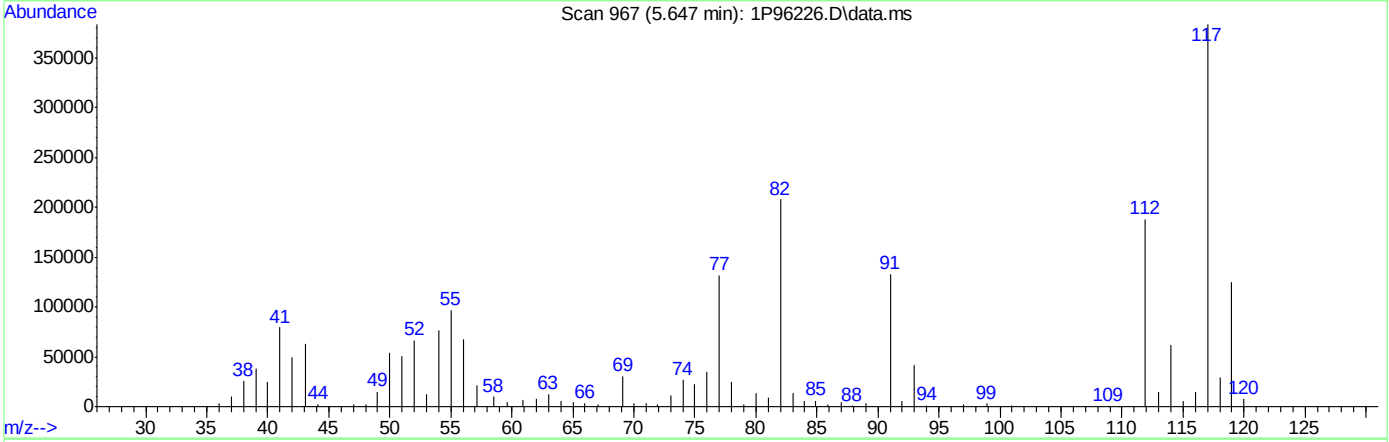
Ion	Exp%	Act%
91.00	100	100
55.00	73.20	70.42
41.00	62.10	54.56
43.10	50.00	46.14

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96226.D
Acq On : 12 Dec 2022 10:34 am
Operator : courtnef
Sample : BS
Misc : MS52806,V1P3644,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 10:46:35 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96226.D\data.ms

(76) 1-Chlorohexane

5.647min (-0.002) 26.96ug/L m

response 158055

Ion	Exp%	Act%
91.00	100	100
55.00	73.20	72.68
41.00	62.10	59.58
43.10	50.00	47.61

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/14/22 01:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96227.D
Acq On : 12 Dec 2022 10:50 am
Operator : courtnef
Sample : BS
Misc : MS52806,V2P3657,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 12 11:01:24 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.719	96	1070089	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.638	117	750502	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.328	152	340285	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.264	113	230578	51.57	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.14%			
49) 1,2-Dichloroethane-d4	3.551	65	312217	48.53	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.06%			
63) Toluene-d8	4.644	98	1040186	48.74	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.48%			
86) 4-Bromofluorobenzene	6.491	174	277831	53.27	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.54%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.125	85	102788	25.23	ug/L	99
3) Chloromethane	1.250	50	116130	25.36	ug/L	99
4) 1,3-butadiene	1.323	39	116613	24.43	ug/L	88
5) Vinyl Chloride	1.308	62	111686	22.37	ug/L	100
6) Bromomethane	1.512	94	32162	13.80	ug/L	91
7) Chloroethane	1.585	64	41072	28.06	ug/L	94
8) Trichlorofluoromethane	1.679	101	124729	22.21	ug/L	99
9) Ethyl Ether	1.883	59	87459	20.78	ug/L	98
10) Ethanol	1.967	45	54154	385.68	ug/L	94
11) 1,2-Dichlorotrifluoroe...	1.977	67	122236	25.31	ug/L	99
12) 1,1-Dichloroethene	1.982	61	147973	24.99	ug/L	98
13) Freon 113	2.019	101	97439	27.26	ug/L	93
14) Carbon Disulfide	2.003	76	286475	25.72	ug/L	96
15) Iodomethane	2.061	142	61010	22.97	ug/L	97
16) Acrolein	2.155	56	143962	110.31	ug/L	99
17) Allyl chloride	2.249	41	159798	29.57	ug/L	93
18) Methylene Chloride	2.301	49	124254	19.17	ug/L	98
19) Acetone	2.317	43	326218	111.53	ug/L	98
20) Methyl acetate	2.396	43	705107	113.49	ug/L	97
21) trans-1,2-Dichloroethene	2.401	61	140623	23.84	ug/L	96
22) Hexane	2.469	56	85754	26.44	ug/L	90
23) Methyl Tert Butyl Ether	2.469	73	328396	23.57	ug/L	78
24) Tert Butyl Alcohol	2.511	59	344618	236.86	ug/L	97
25) Acetonitrile	2.552	41	233427	218.31	ug/L	96
26) Di-isopropyl ether	2.683	45	340819	23.75	ug/L	98
27) Chloroprene	2.725	53	514585	24.24	ug/L	97
28) 1,1-Dichloroethane	2.730	63	189215	24.63	ug/L	99
29) Acrylonitrile	2.730	52	333009	119.21	ug/L	99
30) ETBE	2.882	59	323126	23.03	ug/L	98
31) Vinyl acetate	2.861	43	1424435	129.17	ug/L	99
32) cis-1,2-Dichloroethene	3.023	96	105597	24.75	ug/L	98
33) 2,2-Dichloropropane	3.086	77	153767	24.36	ug/L	98
34) Bromochloromethane	3.128	128	46269	26.50	ug/L	96
35) Cyclohexane	3.164	56	191852	27.71	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96227.D
Acq On : 12 Dec 2022 10:50 am
Operator : courtnef
Sample : BS
Misc : MS52806,V2P3657,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 12 11:01:24 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Chloroform	3.164	83	185312	24.55	ug/L	100
37) Ethyl acetate	3.227	43	917585	117.73	ug/L	98
38) Tetrahydrofuran	3.259	42	72626	23.75	ug/L	97
40) Carbon Tetrachloride	3.269	117	132633m	28.16	ug/L	
41) 1,1,1-Trichloroethane	3.295	97	163038	26.07	ug/L	95
42) 2-Butanone	3.316	43	550572	116.77	ug/L	96
43) 1,1-Dichloropropene	3.363	75	143005	24.83	ug/L	93
44) tert-Butyl formate	3.405	59	395368	118.46	ug/L	97
45) Propionitrile	3.457	54	308864	243.33	ug/L	97
46) Methacrylonitrile	3.483	41	998436	226.39	ug/L	99
47) Benzene	3.494	78	429238	23.41	ug/L	89
48) TAME	3.567	73	313598	23.64	ug/L	96
50) Isobutyl alcohol	3.593	43	349664m	436.13	ug/L	
51) 1,2-Dichloroethane	3.588	62	142204	22.80	ug/L	99
52) Tert Amyl Alcohol	3.651	59	277951	239.59	ug/L	98
53) Trichloroethene	3.823	95	107773	24.40	ug/L	96
54) Methylcyclohexane	3.844	83	177841	28.83	ug/L	97
55) Dibromomethane	4.048	93	59789	24.13	ug/L	88
56) 1,2-Dichloropropane	4.106	63	101911	23.07	ug/L	98
57) Bromodichloromethane	4.142	83	130294	27.25	ug/L	97
58) Methyl methacrylate	4.231	41	121804	23.37	ug/L	98
59) 1,4-Dioxane	4.257	88	54086	490.51	ug/L	98
60) 2-Chloroethyl vinyl ether	4.477	63	376501	125.09	ug/L	96
61) cis-1,3-Dichloropropene	4.519	75	165834	25.39	ug/L	93
64) Toluene	4.681	91	462270	23.84	ug/L	99
65) 2-Nitropropane	4.770	41	225874	112.53	ug/L	97
66) 4-Methyl-2-pentanone	4.885	43	952695	114.58	ug/L	99
67) trans-1,3-Dichloropropene	4.916	75	157113	27.16	ug/L	99
68) Tetrachloroethene	4.932	166	102793	26.79	ug/L	98
69) Ethyl methacrylate	5.026	69	147545	22.96	ug/L	92
70) 1,1,2-Trichloroethane	5.016	83	80869	23.69	ug/L	96
71) Dibromochloromethane	5.141	129	87640	26.29	ug/L	99
72) 1,3-Dichloropropane	5.194	76	165894	22.22	ug/L	93
73) 1,2-Dibromoethane	5.293	107	93736	23.92	ug/L	99
74) 3,3-dimethyl-1-butanol	5.424	57	1462691	1158.92	ug/L	99
75) 2-hexanone	5.429	43	1000472	112.59	ug/L	99
76) 1-Chlorohexane	5.649	91	147940m	24.24	ug/L	
77) Ethylbenzene	5.680	91	512637	24.45	ug/L	99
78) Chlorobenzene	5.654	112	267128	23.77	ug/L	99
79) 1,1,1,2-Tetrachloroethane	5.696	131	93173	27.25	ug/L	97
80) m,p-Xylene	5.779	91	795929	48.40	ug/L	98
81) o-Xylene	6.072	91	396053	24.41	ug/L	96
82) Styrene	6.104	104	287567	24.70	ug/L	98
83) Bromoform	6.114	173	57372	32.09	ug/L	94
84) Isopropylbenzene	6.302	105	457361	24.74	ug/L	99
87) cis-1,4-Dichloro-2-butene	6.522	53	42742	20.81	ug/L	92
88) n-Propylbenzene	6.606	91	569055	23.95	ug/L	99
89) Bromobenzene	6.569	156	101617	23.80	ug/L	94
90) 1,1,2,2-Tetrachloroethane	6.627	83	152631	22.97	ug/L	96
91) 1,3,5-Trimethylbenzene	6.752	105	367530	23.25	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96227.D
Acq On : 12 Dec 2022 10:50 am
Operator : courtnef
Sample : BS
Misc : MS52806,V2P3657,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 12 11:01:24 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

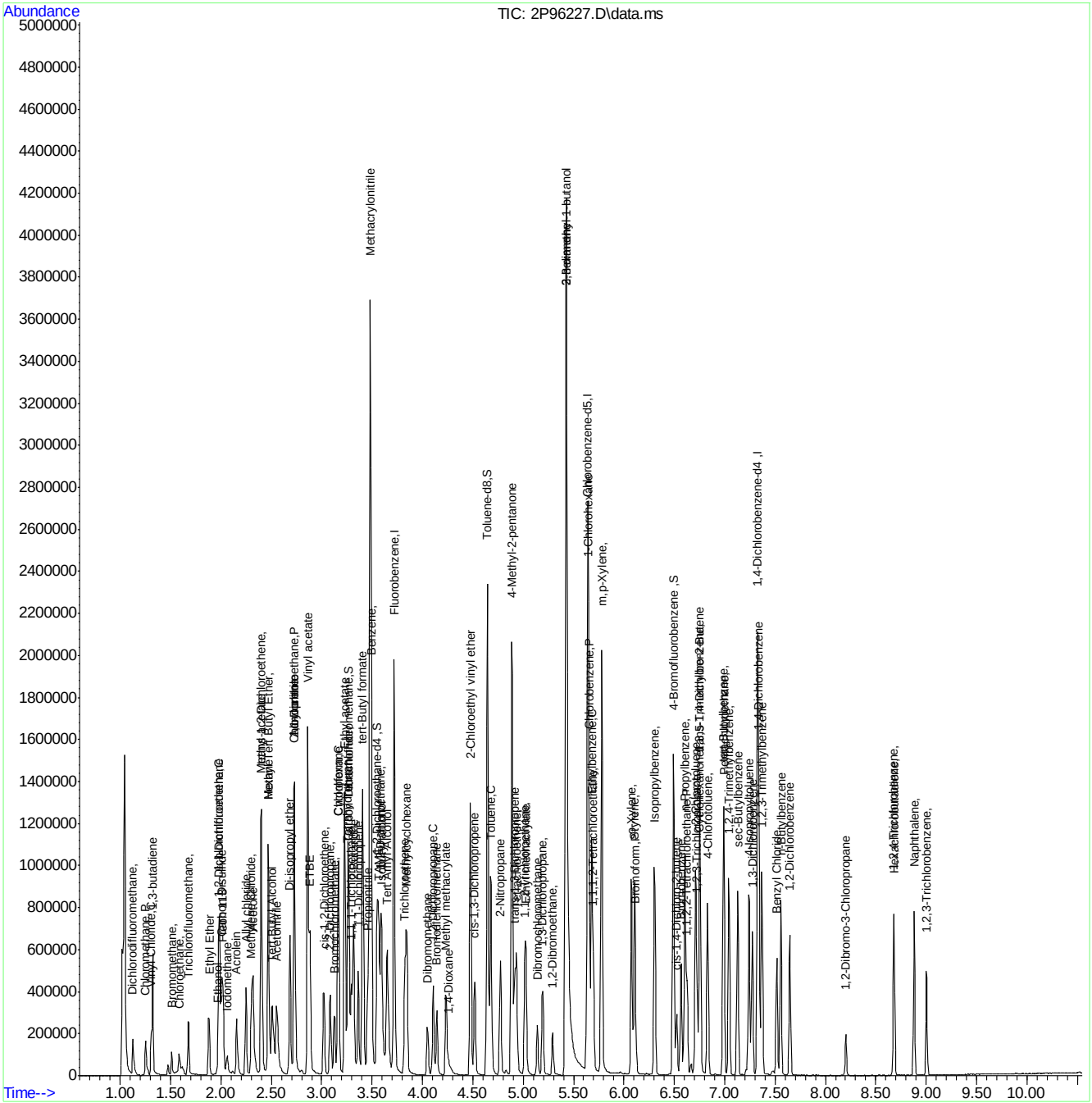
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.710	91	332330	23.33	ug/L		97
93)	trans-1,4-Dichloro-2-B...	6.752	53	56644	23.44	ug/L		96
94)	1,2,3-Trichloropropane	6.721	110	49074	21.04	ug/L		93
95)	Cyclohexanone	6.747	55	42606	92.03	ug/L		95
96)	4-Chlorotoluene	6.831	91	347984	23.47	ug/L		98
97)	tert-Butylbenzene	6.988	91	212521	23.54	ug/L		98
99)	1,2,4-Trimethylbenzene	7.040	105	364720	23.99	ug/L		97
100)	Pentachloroethane	6.993	167	57230	29.92	ug/L	#	65
101)	sec-Butylbenzene	7.129	105	435296	25.08	ug/L		99
102)	4-Isopropyltoluene	7.244	119	369181	25.22	ug/L		99
103)	1,3-Dichlorobenzene	7.275	146	198682	25.48	ug/L		96
104)	1,2,3-Trimethylbenzene	7.369	105	380692	25.13	ug/L		97
105)	1,4-Dichlorobenzene	7.338	146	198724	24.30	ug/L		97
106)	n-Butylbenzene	7.558	92	173400	22.93	ug/L		97
107)	Benzyl Chloride	7.516	126	53942	27.65	ug/L	#	90
108)	1,2-Dichlorobenzene	7.647	146	178767	24.24	ug/L		95
109)	1,2-Dibromo-3-Chloropr...	8.201	75	33849	23.10	ug/L		91
110)	Hexachlorobutadiene	8.682	225	38964	29.81	ug/L		86
111)	1,2,4-Trichlorobenzene	8.677	180	92599	24.00	ug/L		97
112)	Naphthalene	8.881	128	349887	21.89	ug/L		98
113)	1,2,3-Trichlorobenzene	9.006	180	93093	25.83	ug/L		95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96227.D
Acq On : 12 Dec 2022 10:50 am
Operator : courtnef
Sample : BS
Misc : MS52806,V2P3657,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 12 11:01:24 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



Manual Integration Approval Summary

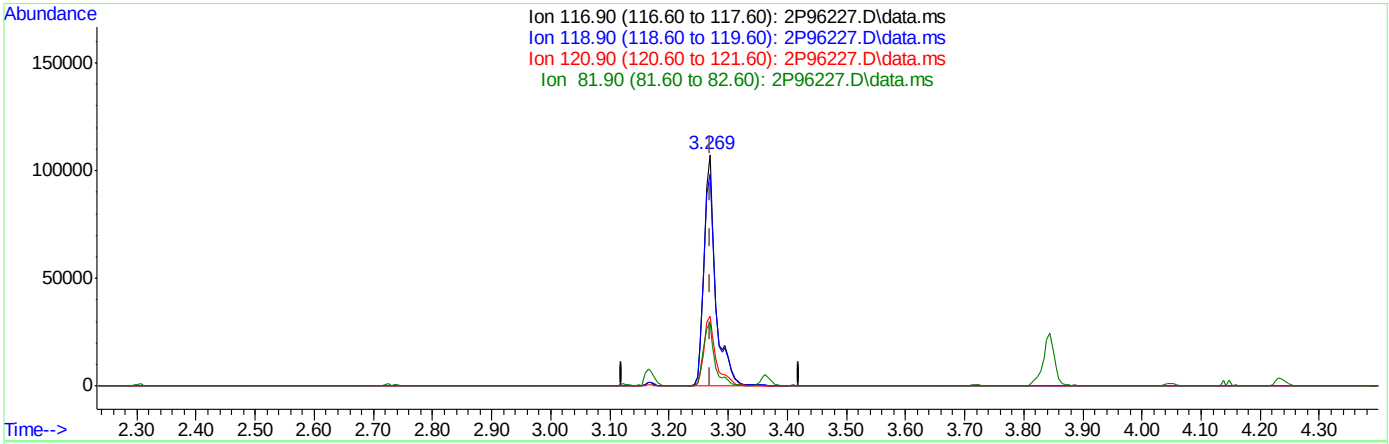
Sample Number: V2P3657-BS
Lab FileID: 2P96227.D
Injection Time: 12/12/22 10:50
Method: SW846 8260D
Analyst approved: 12/12/22 11:02 Courtney Failla
Supervisor approved: 12/14/22 01:20 Jennifer Fereira

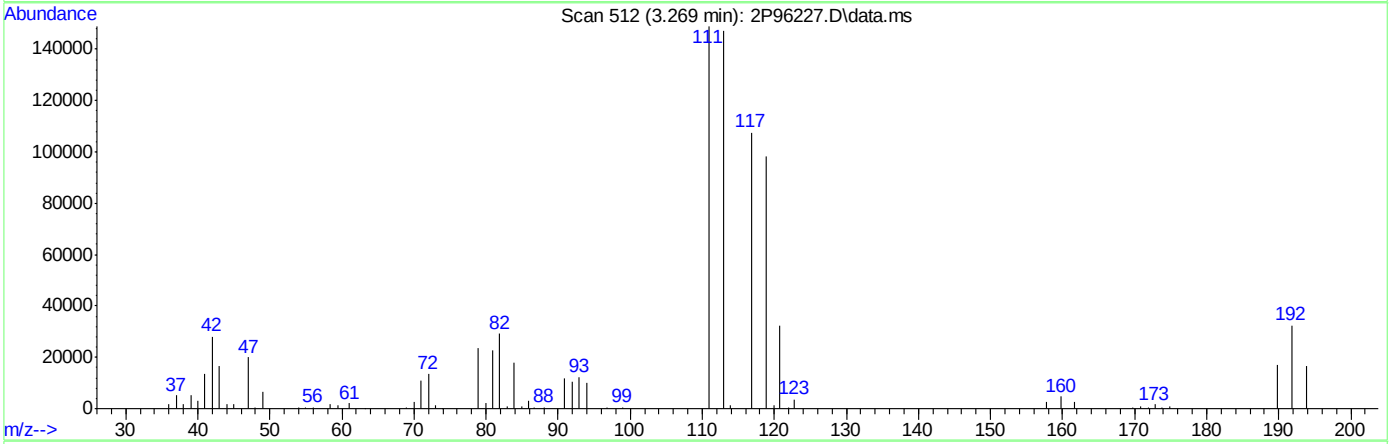
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96227.D
Acq On : 12 Dec 2022 10:50 am
Operator : courtnef
Sample : BS
Misc : MS52806,V2P3657,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 12 11:00:55 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96227.D\data.ms

(40) Carbon Tetrachloride ( )

3.269min (-0.002) 31.73ug/L

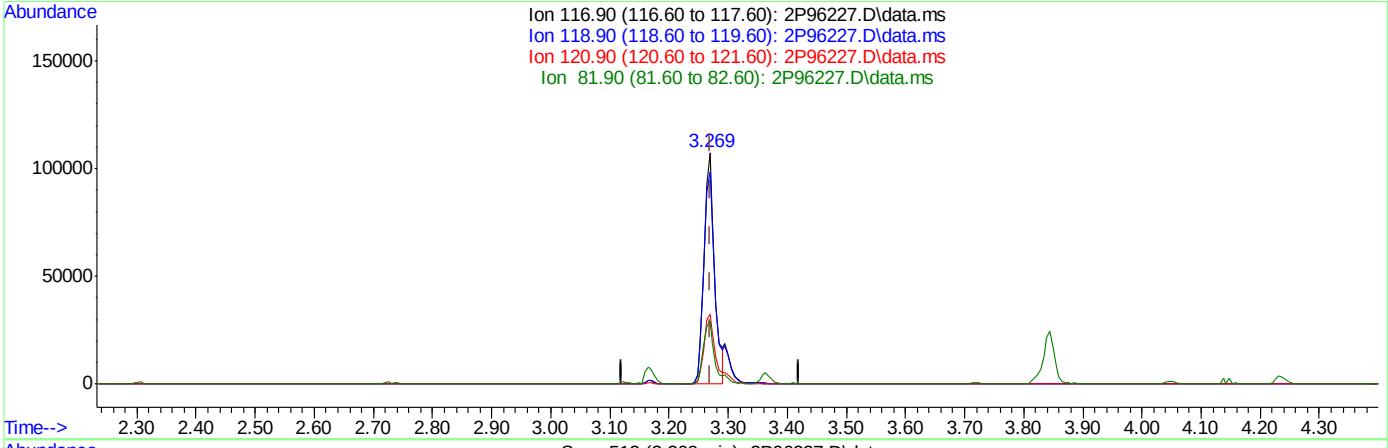
response 149444

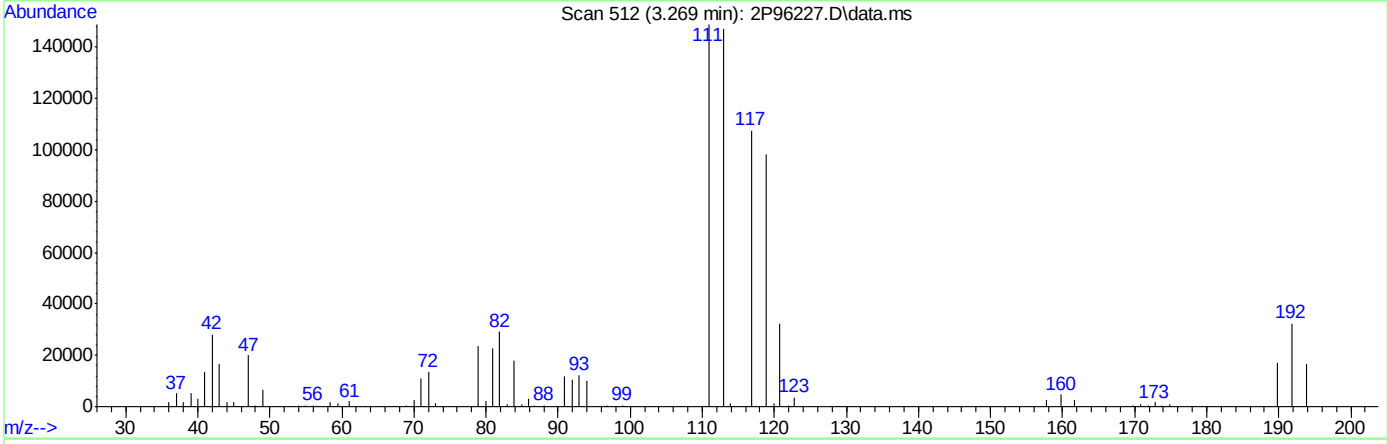
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	91.51
120.90	30.80	30.03
81.90	27.00	26.99

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96227.D
Acq On : 12 Dec 2022 10:50 am
Operator : courtnef
Sample : BS
Misc : MS52806,V2P3657,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 12 11:00:55 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96227.D\data.ms

(40) Carbon Tetrachloride ( )

3.269min (-0.002) 28.16ug/L m

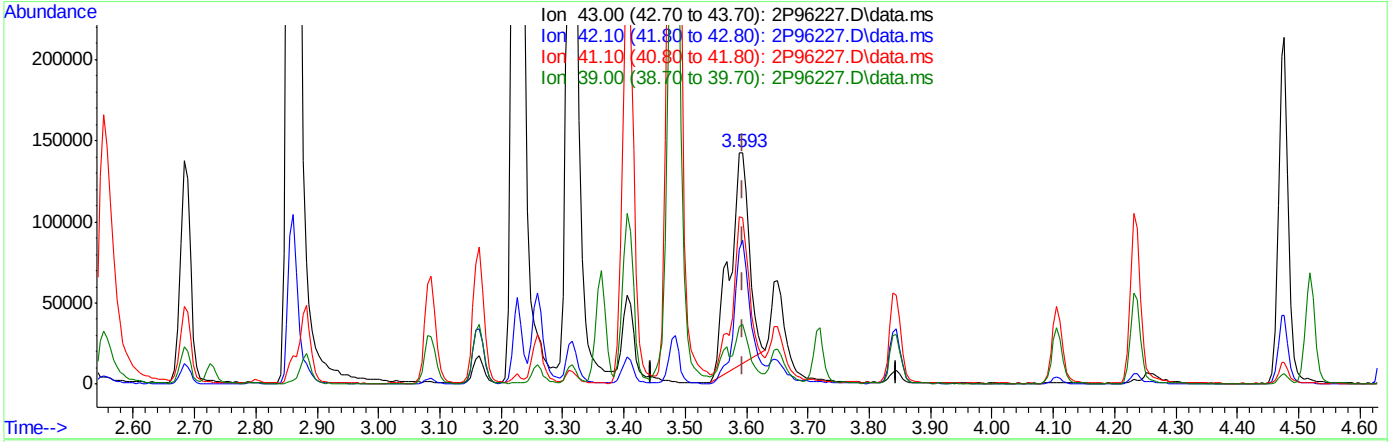
response 132633

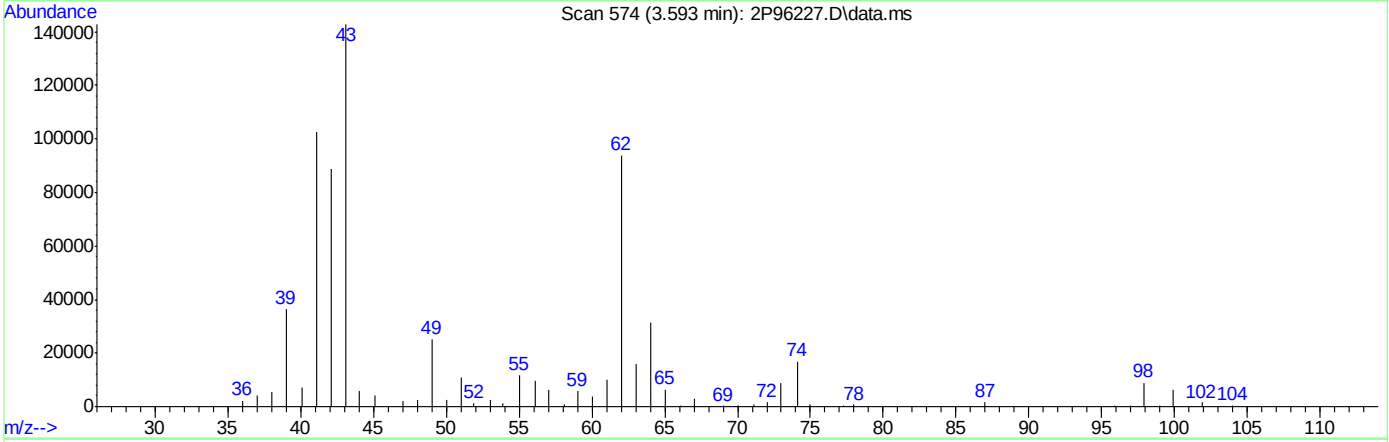
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	91.51
120.90	30.80	30.03
81.90	27.00	27.21

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96227.D
Acq On : 12 Dec 2022 10:50 am
Operator : courtnef
Sample : BS
Misc : MS52806,V2P3657,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 12 11:00:55 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96227.D\data.ms

(50) Isobutyl alcohol

3.593min (-0.002) 363.11ug/L

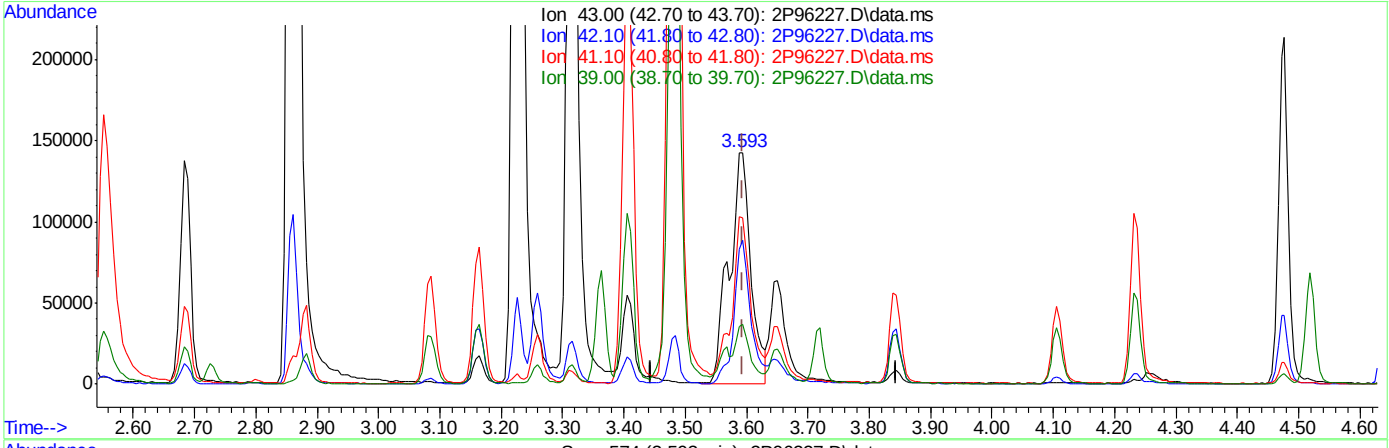
response 291115

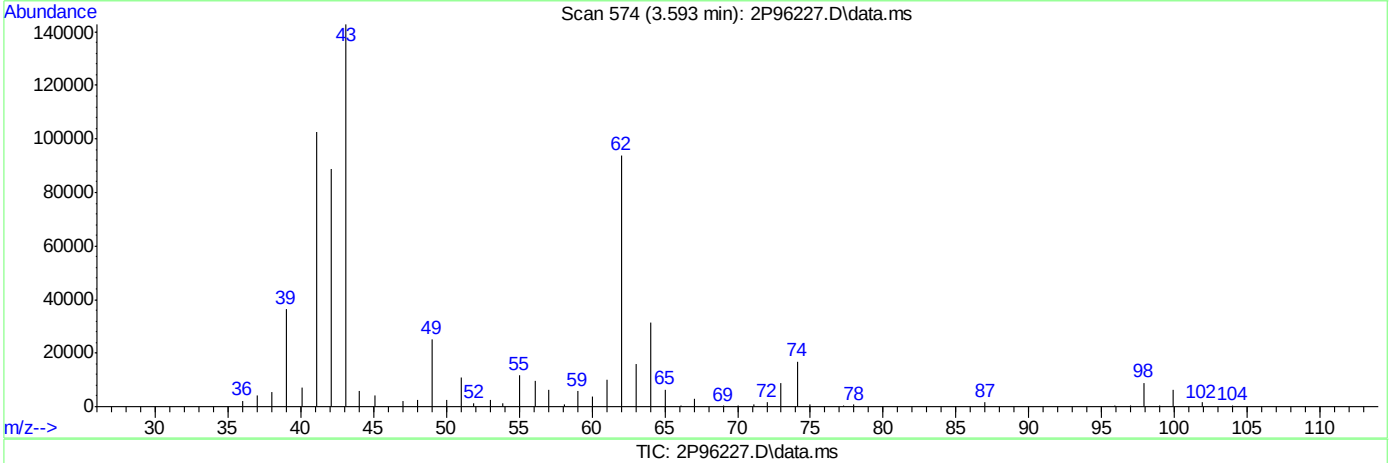
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	62.46
41.10	71.90	68.43
39.00	26.60	22.95

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96227.D
Acq On : 12 Dec 2022 10:50 am
Operator : courtnef
Sample : BS
Misc : MS52806,V2P3657,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 12 11:00:55 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96227.D\data.ms

(50) Isobutyl alcohol

3.593min (-0.002) 436.13ug/L m

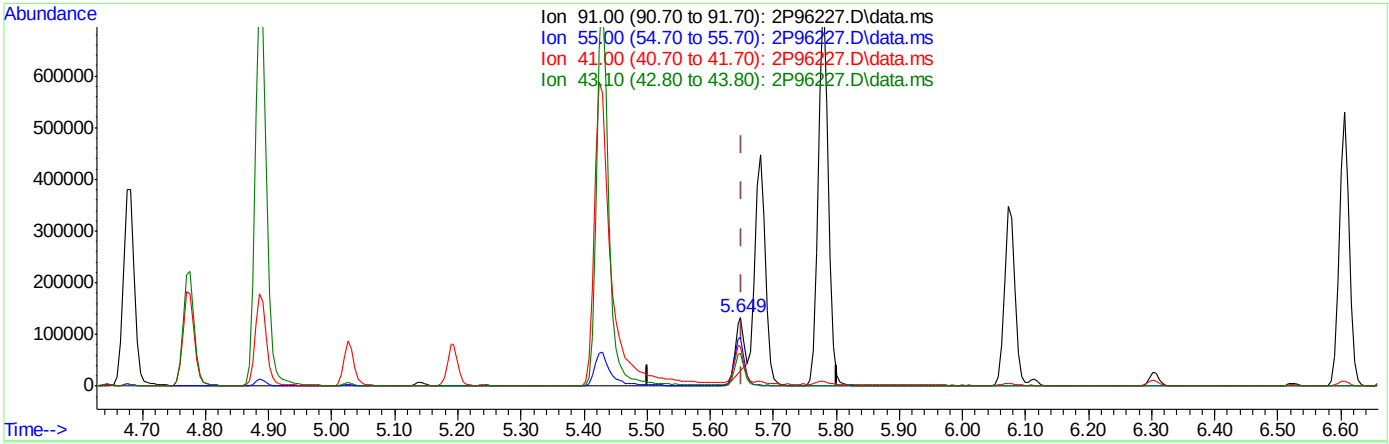
response 349664

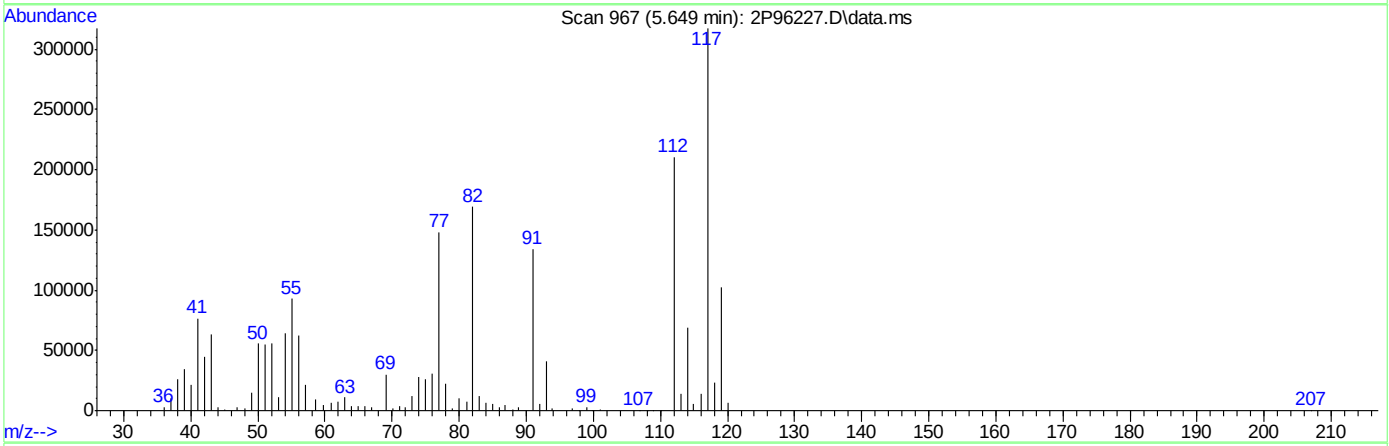
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	62.32
41.10	71.90	71.74
39.00	26.60	25.66

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96227.D
Acq On : 12 Dec 2022 10:50 am
Operator : courtnef
Sample : BS
Misc : MS52806,V2P3657,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 12 11:00:55 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96227.D\data.ms

(76) 1-Chlorohexane

5.649min (-0.002) 16.84ug/L

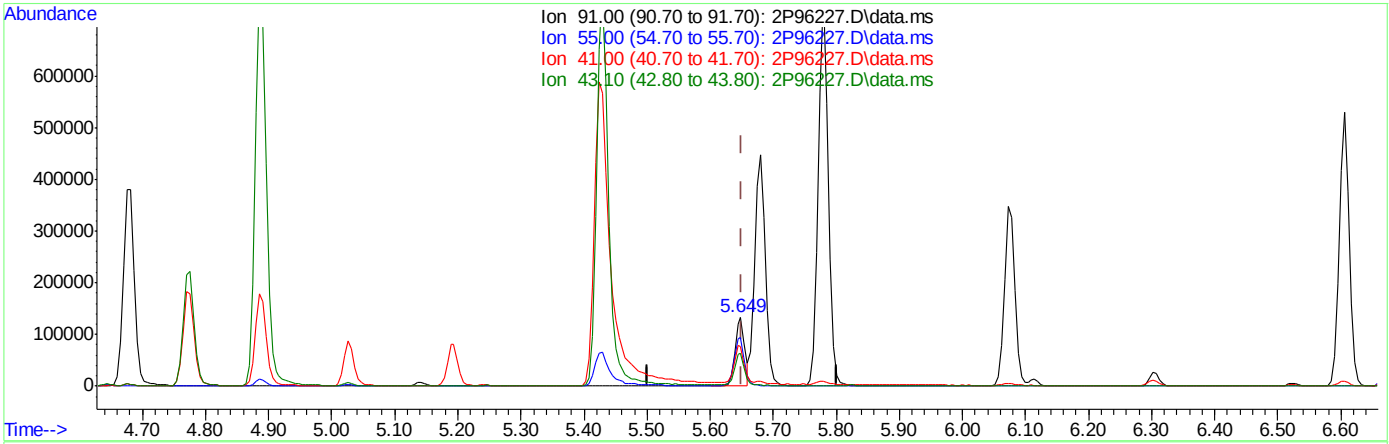
response 102790

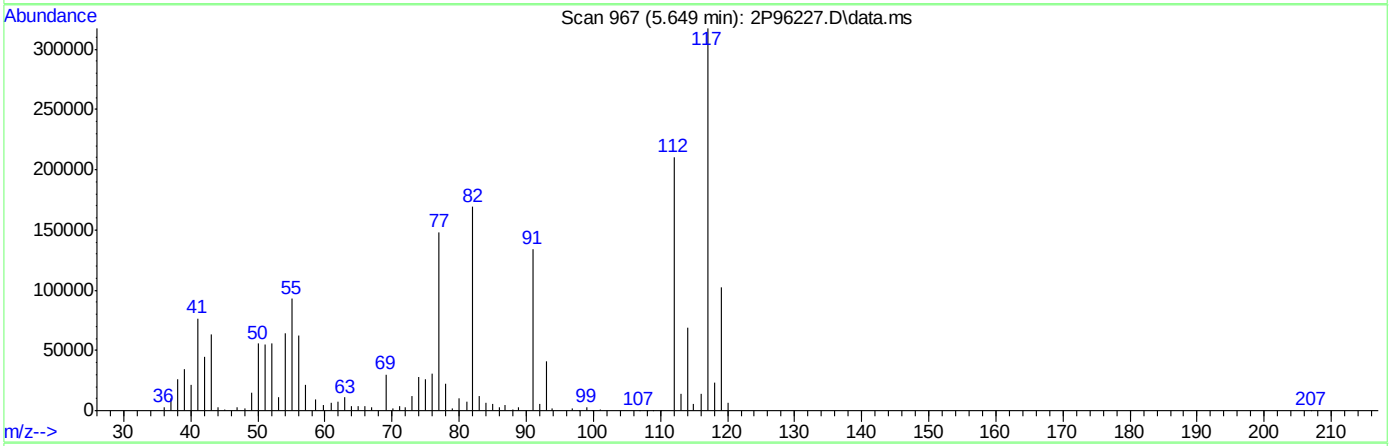
Ion	Exp%	Act%
91.00	100	100
55.00	73.60	66.63
41.00	60.90	52.09
43.10	49.80	45.27

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96227.D
Acq On : 12 Dec 2022 10:50 am
Operator : courtnef
Sample : BS
Misc : MS52806,V2P3657,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 12 11:00:55 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96227.D\data.ms

(76) 1-Chlorohexane

5.649min (-0.002) 24.24ug/L m

response 147940

Ion	Exp%	Act%
91.00	100	100
55.00	73.60	69.31
41.00	60.90	56.99
43.10	49.80	47.15

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/15/22 02:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42121.D
Acq On : 13 Dec 2022 9:50 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1697,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 13 10:06:55 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	217530	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	180137	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	95431	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	69333	49.67	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.34%			
49) 1,2-Dichloroethane-d4	3.474	65	71605	50.05	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.10%			
63) Toluene-d8	4.605	98	224558	49.56	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.12%			
86) 4-Bromofluorobenzene	6.514	174	81406	50.06	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.12%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.034	85	33444	21.91	ug/L	99
3) Chloromethane	1.157	50	27333	19.49	ug/L	100
4) 1,3-butadiene	1.219	39	29047	28.06	ug/L	99
5) Vinyl Chloride	1.203	62	31548	22.22	ug/L	99
6) Bromomethane	1.403	94	18198	19.21	ug/L	97
7) Chloroethane	1.480	64	9805	17.45	ug/L	98
8) Trichlorofluoromethane	1.573	101	50586	23.78	ug/L	99
9) Ethyl Ether	1.773	59	22227	21.92	ug/L	97
10) Ethanol	1.842	45	8200	401.52	ug/L	88
11) 1,2-Dichlorotrifluoroe...	1.873	67	37489	23.72	ug/L	97
12) 1,1-Dichloroethene	1.873	61	48214	25.77	ug/L	97
13) Freon 113	1.911	101	34115	25.92	ug/L	99
14) Carbon Disulfide	1.896	76	89068	23.96	ug/L	100
15) Iodomethane	1.950	142	35266	25.63	ug/L	99
16) Acrolein	2.042	56	30873	104.55	ug/L	97
17) Allyl chloride	2.142	41	37144	22.06	ug/L	98
18) Methylene Chloride	2.196	49	35578	21.21	ug/L	97
19) Acetone	2.211	43	47924	106.40	ug/L	99
20) Methyl acetate	2.288	43	123394	117.57	ug/L	97
21) trans-1,2-Dichloroethene	2.296	61	45069	24.30	ug/L	95
22) Hexane	2.365	56	29263	27.53	ug/L	96
23) Methyl Tert Butyl Ether	2.365	73	90294	23.40	ug/L	90
24) Acetonitrile	2.365	41	52945m	256.78	ug/L	
25) Tert Butyl Alcohol	2.396	59	56436	242.30	ug/L	99
26) Di-isopropyl ether	2.588	45	84281	23.60	ug/L	99
27) Chloroprene	2.627	53	105515	24.01	ug/L	99
28) 1,1-Dichloroethane	2.635	63	57322	24.42	ug/L	99
29) Acrylonitrile	2.627	52	62917	118.15	ug/L	99
30) ETBE	2.789	59	88892	23.12	ug/L	99
31) Vinyl acetate	2.765	43	317731	125.19	ug/L	100
32) cis-1,2-Dichloroethene	2.927	96	35642	24.09	ug/L	98
33) 2,2-Dichloropropane	2.996	77	49623	23.26	ug/L	99
34) Bromochloromethane	3.035	128	17060	24.47	ug/L	90
35) Cyclohexane	3.073	56	55486	26.68	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42121.D
Acq On : 13 Dec 2022 9:50 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1697,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 13 10:06:55 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Chloroform	3.081	83	60482	23.59	ug/L	99
37) Ethyl acetate	3.143	43	165446	117.15	ug/L	99
38) Tetrahydrofuran	3.173	42	10812	22.10	ug/L	97
40) Carbon Tetrachloride	3.181	117	49535m	26.00	ug/L	
41) 1,1,1-Trichloroethane	3.212	97	53931	25.13	ug/L	99
42) 2-Butanone	3.235	43	84464	105.44	ug/L	98
43) 1,1-Dichloropropene	3.281	75	46276	24.99	ug/L	98
44) tert-Butyl formate	3.327	59	111420	97.57	ug/L	99
45) Propionitrile	3.381	54	47514	204.53	ug/L	99
46) Methacrylonitrile	3.404	41	180551	212.24	ug/L	99
47) Benzene	3.412	78	131118	24.41	ug/L	84
48) TAME	3.489	73	92641	25.02	ug/L	98
50) 1,2-Dichloroethane	3.512	62	43548	23.25	ug/L	99
51) Isobutyl Alcohol	3.512	43	36438m	543.13	ug/L	
52) Tert Amyl Alcohol	3.574	59	45098	237.19	ug/L	99
53) Trichloroethene	3.758	95	36798	24.28	ug/L	96
54) Methylcyclohexane	3.774	83	63628	28.40	ug/L	98
55) Dibromomethane	3.989	93	21404	23.10	ug/L	97
56) 1,2-Dichloropropane	4.051	63	30695	22.62	ug/L	99
57) Bromodichloromethane	4.089	83	44063	24.51	ug/L	99
58) Methyl methacrylate	4.182	41	26701	21.50	ug/L	95
59) 1,4-Dioxane	4.205	88	9597	505.94	ug/L	98
60) 2-Chloroethyl vinyl ether	4.436	63	120727	131.24	ug/L	99
61) cis-1,3-Dichloropropene	4.474	75	52201	24.06	ug/L	99
64) Toluene	4.643	91	140648	23.24	ug/L	99
65) 2-Nitropropane	4.736	41	45501	113.23	ug/L	98
66) 4-Methyl-2-pentanone	4.859	43	167075	99.50	ug/L	100
67) trans-1,3-Dichloropropene	4.890	75	48412	24.89	ug/L	99
68) Tetrachloroethene	4.905	166	42322	25.45	ug/L	98
69) Ethyl methacrylate	5.005	69	35857	19.76	ug/L	99
70) 1,1,2-Trichloroethane	4.990	83	25486	23.59	ug/L	99
71) Dibromochloromethane	5.113	129	32700	22.72	ug/L	99
72) 1,3-Dichloropropane	5.174	76	47875	22.22	ug/L	98
73) 1,2-Dibromoethane	5.274	107	33326	23.67	ug/L	99
74) 3,3-Dimethyl-1-Butanol	5.405	57	242351	1123.83	ug/L	99
75) 2-hexanone	5.421	43	162345	102.98	ug/L	94
76) 1-Chlorohexane	5.644	91	50178m	25.45	ug/L	
77) Ethylbenzene	5.675	91	153484m	23.80	ug/L	
78) Chlorobenzene	5.644	112	92046	24.16	ug/L	98
79) 1,1,1,2-Tetrachloroethane	5.690	131	33222	24.46	ug/L	98
80) m,p-Xylene	5.782	91	240123	47.30	ug/L	99
81) o-Xylene	6.083	91	125605	23.95	ug/L	99
82) Styrene	6.121	104	96402	23.83	ug/L	99
83) Bromoform	6.121	173	23143	23.91	ug/L	98
84) Isopropylbenzene	6.329	105	153930	24.90	ug/L	99
87) cis-1,4-Dichloro-2-butene	6.552	53	11025	18.72	ug/L	94
88) n-Propylbenzene	6.637	91	181603	24.44	ug/L	99
89) Bromobenzene	6.591	156	38719	23.28	ug/L	97
90) 1,1,2,2-Tetrachloroethane	6.660	83	42126	22.89	ug/L	99
91) 1,3,5-Trimethylbenzene	6.791	105	128804	23.81	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42121.D
Acq On : 13 Dec 2022 9:50 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1697,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 13 10:06:55 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

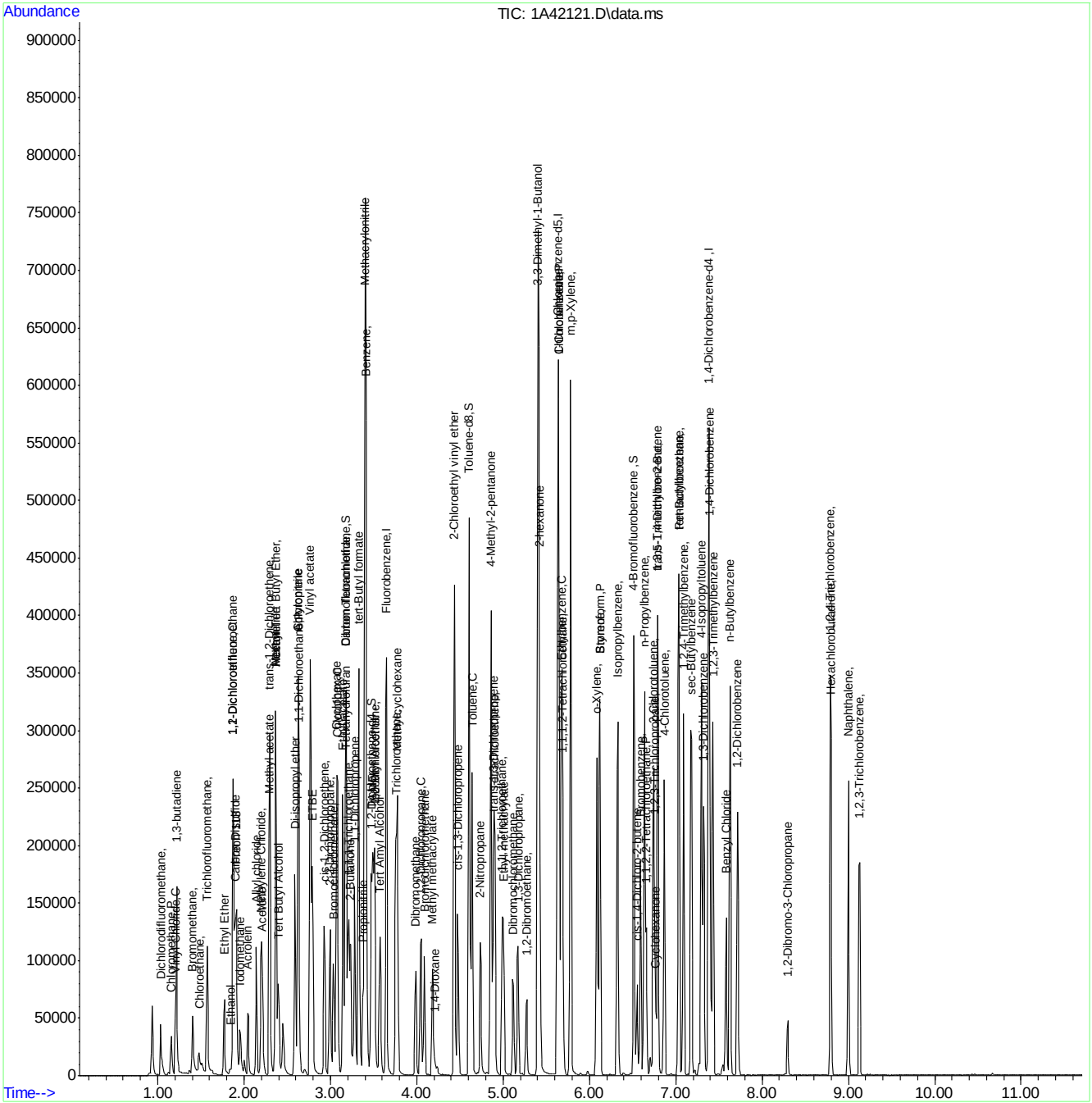
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.745	91	102736	23.79	ug/L		100
93)	trans-1,4-Dichloro-2-B...	6.791	53	14633	22.67	ug/L		99
94)	1,2,3-Trichloropropane	6.752	110	12252	22.05	ug/L		89
95)	Cyclohexanone	6.768	55	8034	112.20	ug/L		98
96)	4-Chlorotoluene	6.868	91	106747	23.65	ug/L		98
97)	tert-Butylbenzene	7.037	91	74712	24.41	ug/L		98
98)	1,2,4-Trimethylbenzene	7.091	105	126841	24.52	ug/L		100
99)	Pentachloroethane	7.037	167	19806	23.04	ug/L	#	75
100)	sec-Butylbenzene	7.183	105	168628	26.53	ug/L		99
101)	4-Isopropyltoluene	7.299	119	147549	26.32	ug/L		99
102)	1,3-Dichlorobenzene	7.322	146	73519	24.54	ug/L		97
103)	1,2,3-Trimethylbenzene	7.430	105	127812	25.66	ug/L		98
104)	1,4-Dichlorobenzene	7.391	146	73020	23.75	ug/L		94
105)	n-Butylbenzene	7.630	92	69518	24.64	ug/L		98
106)	Benzyl Chloride	7.583	126	15349	21.39	ug/L		97
107)	1,2-Dichlorobenzene	7.714	146	66312	23.78	ug/L		99
108)	1,2-Dibromo-3-Chloropr...	8.299	75	7846	21.91	ug/L		96
109)	Hexachlorobutadiene	8.799	225	26854	25.96	ug/L		98
110)	1,2,4-Trichlorobenzene	8.792	180	46446	24.03	ug/L		99
111)	Naphthalene	9.000	128	122351	23.05	ug/L		100
112)	1,2,3-Trichlorobenzene	9.130	180	42797	23.43	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42121.D
Acq On : 13 Dec 2022 9:50 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1697,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 13 10:06:55 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



Manual Integration Approval Summary

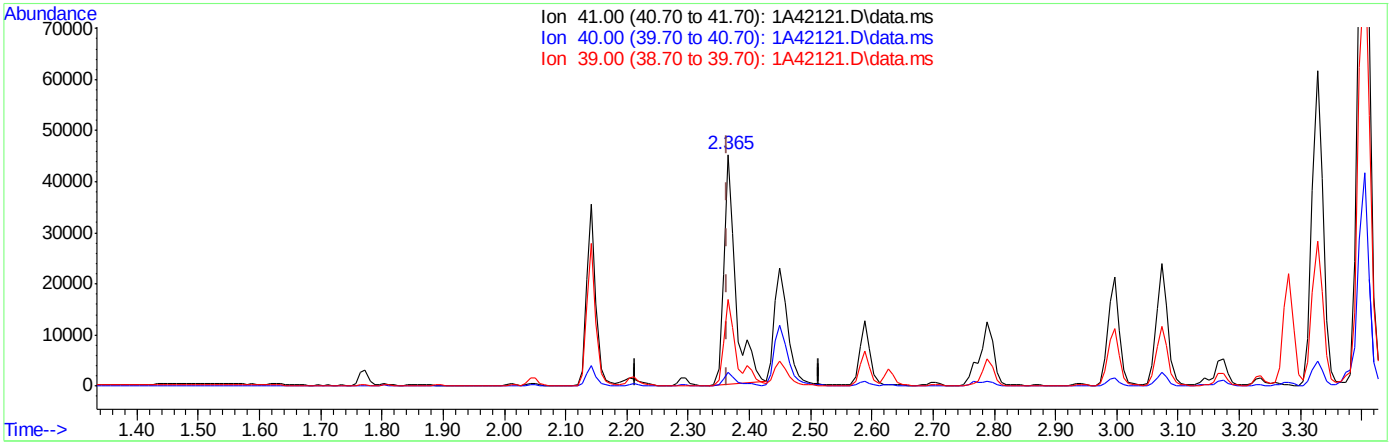
Sample Number: V1A1697-BS
Lab FileID: 1A42121.D
Injection Time: 12/13/22 09:50
Method: SW846 8260D
Analyst approved: 12/13/22 10:06 Jo-Ann Lugo De Jesus
Supervisor approved: 12/15/22 02:21 Jennifer Fereira

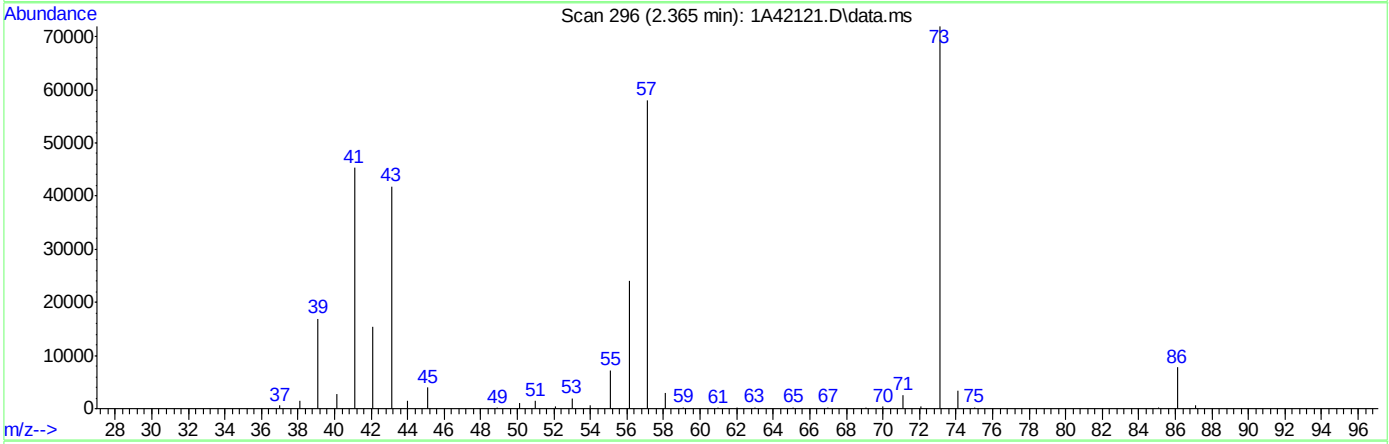
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.37	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.18	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration
Ethylbenzene	100-41-4		5.67	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42121.D
Acq On : 13 Dec 2022 9:50 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1697,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 13 10:05:45 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42121.D\data.ms

(24) Acetonitrile

2.365min (+0.000) 291.88ug/L

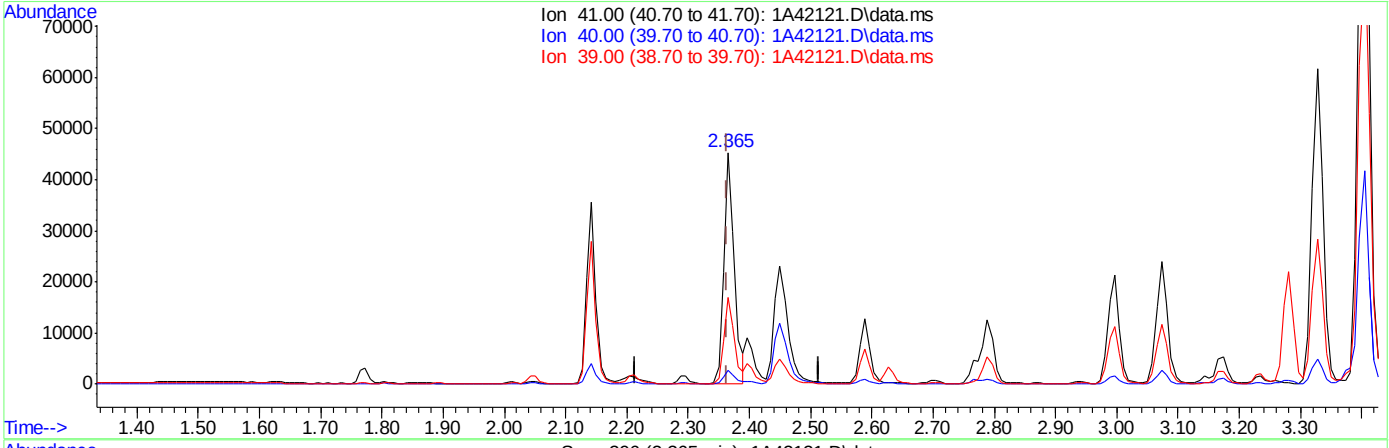
response 60182

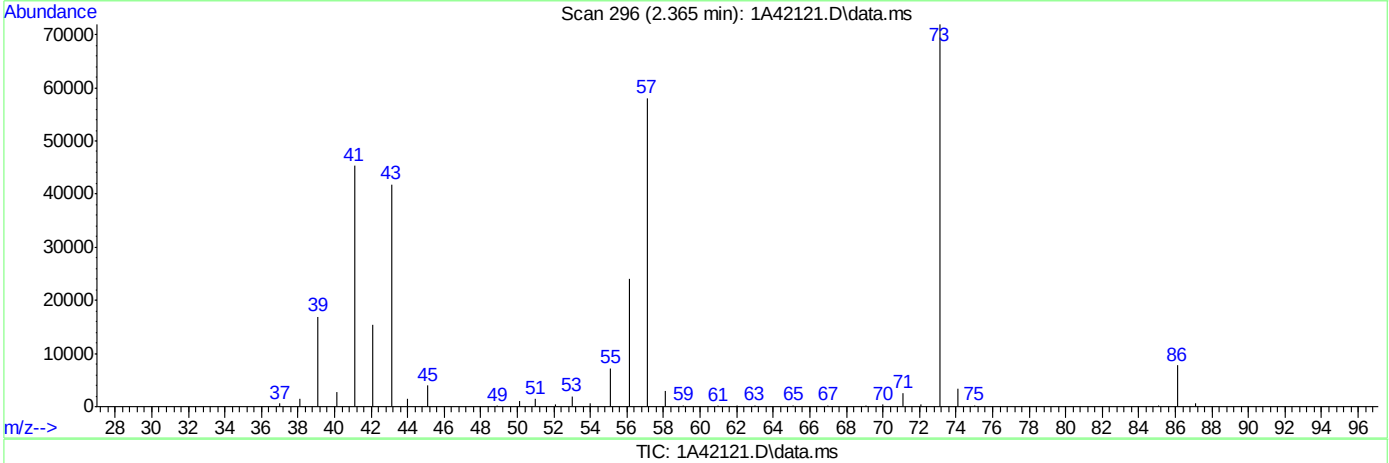
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	5.83
39.00	37.60	37.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42121.D
Acq On : 13 Dec 2022 9:50 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1697,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 13 10:05:45 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42121.D\data.ms

(24) Acetonitrile

2.365min (+0.000) 256.78ug/L m

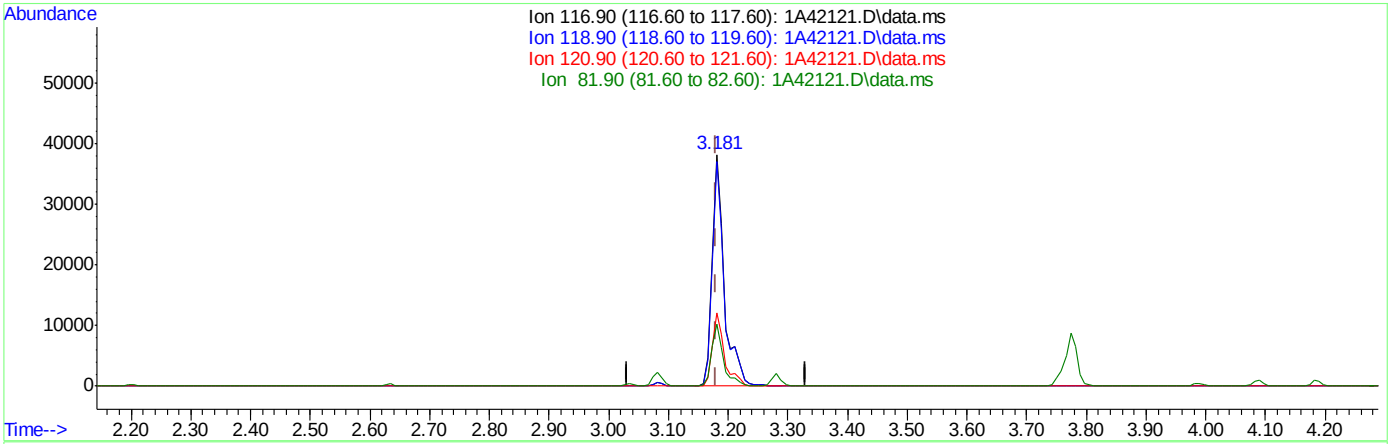
response 52945

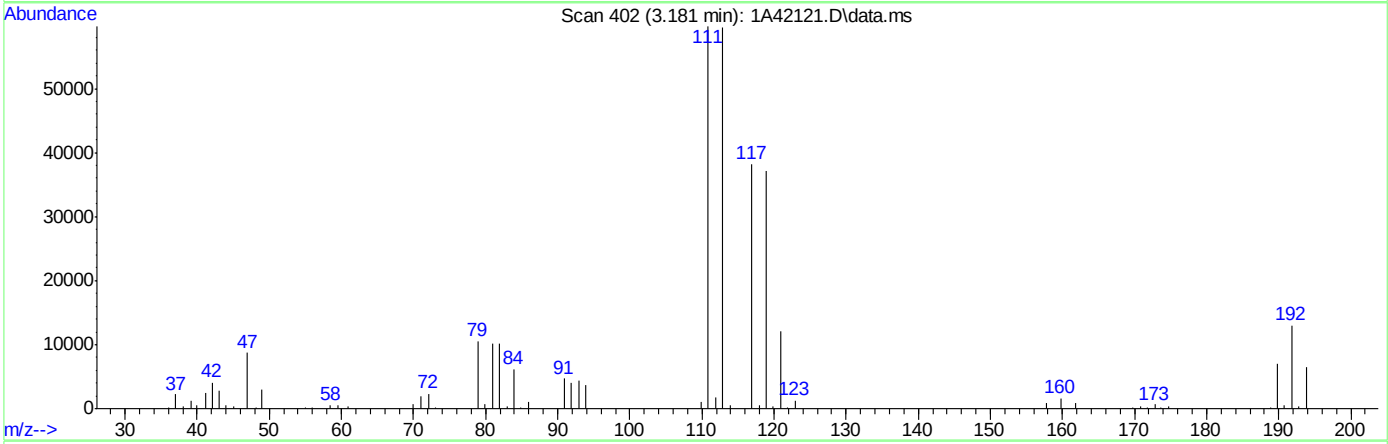
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.03
39.00	37.60	37.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42121.D
Acq On : 13 Dec 2022 9:50 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1697,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 13 10:05:45 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42121.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 29.03ug/L

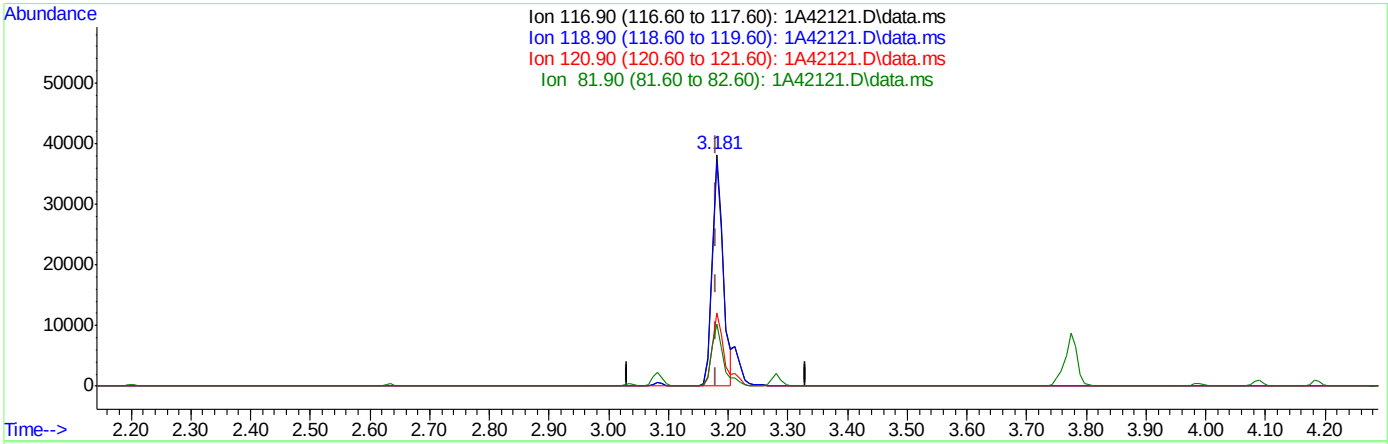
response 55299

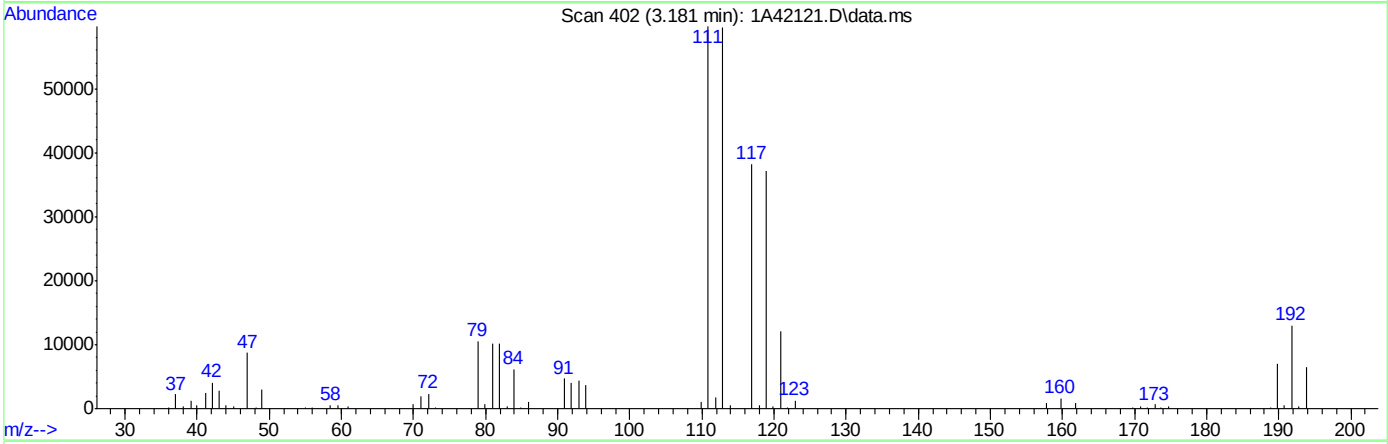
Ion	Exp%	Act%
116.90	100	100
118.90	95.70	97.05
120.90	30.30	31.67
81.90	26.50	26.75

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42121.D
Acq On : 13 Dec 2022 9:50 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1697,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 13 10:05:45 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42121.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 26.00ug/L m

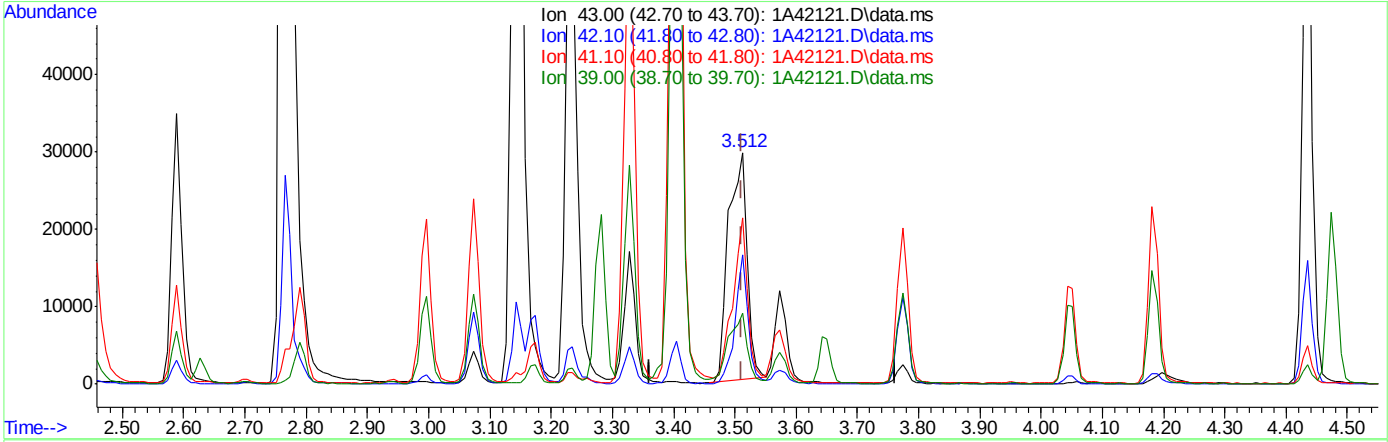
response 49535

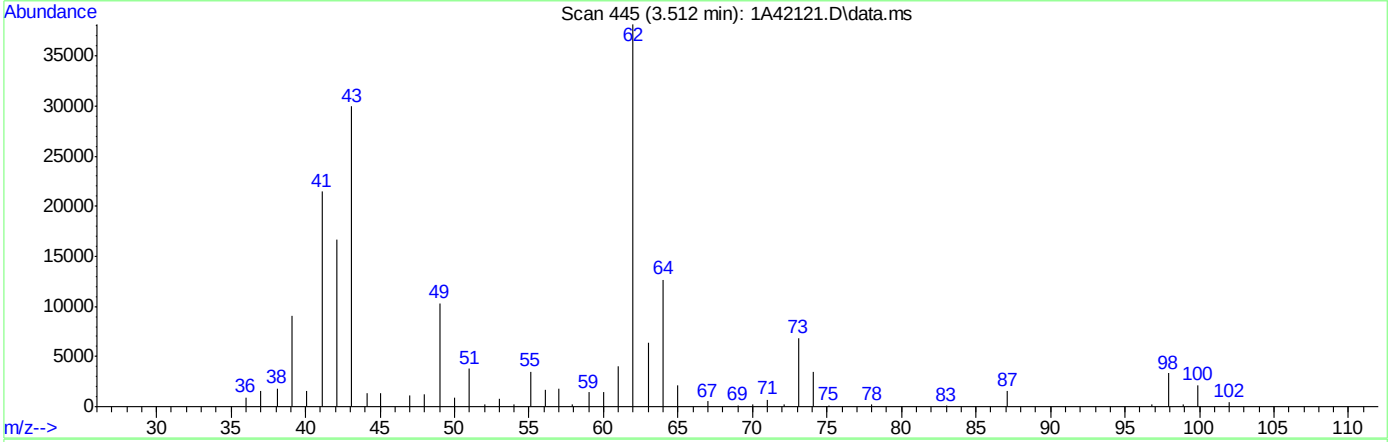
Ion	Exp%	Act%
116.90	100	100
118.90	95.70	97.05
120.90	30.30	31.67
81.90	26.50	26.75

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42121.D
Acq On : 13 Dec 2022 9:50 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1697,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 13 10:05:45 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42121.D\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 907.71ug/L

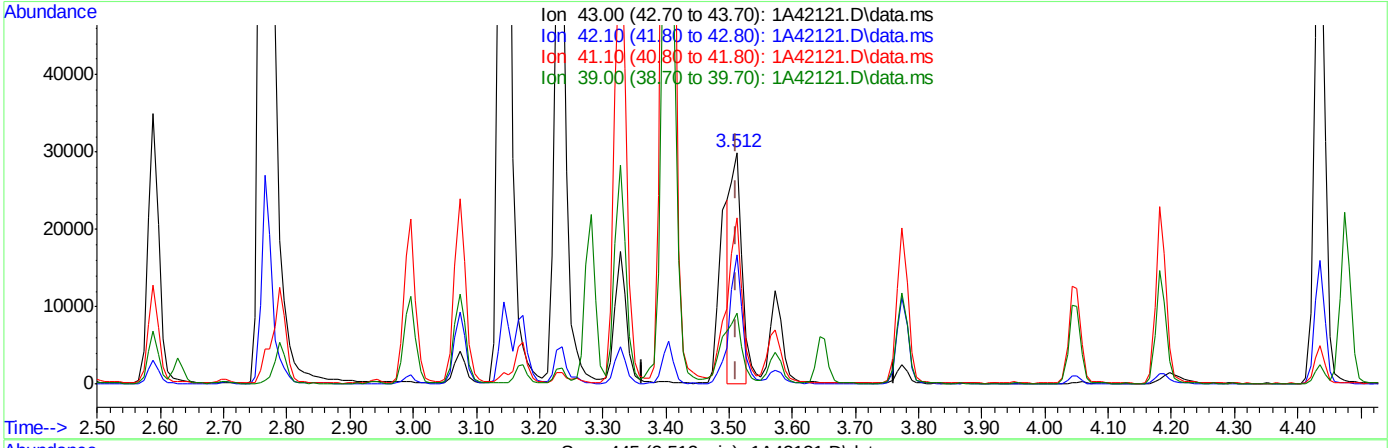
response 62523

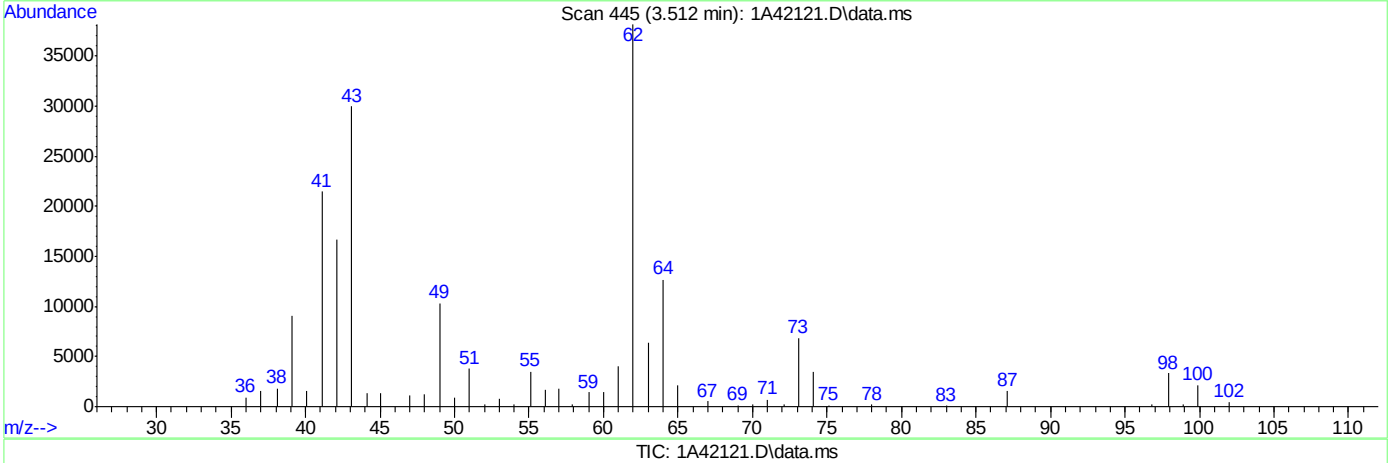
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	56.06
41.10	71.70	68.79
39.00	29.20	28.72

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42121.D
Acq On : 13 Dec 2022 9:50 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1697,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 13 10:05:45 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42121.D\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 543.13ug/L m

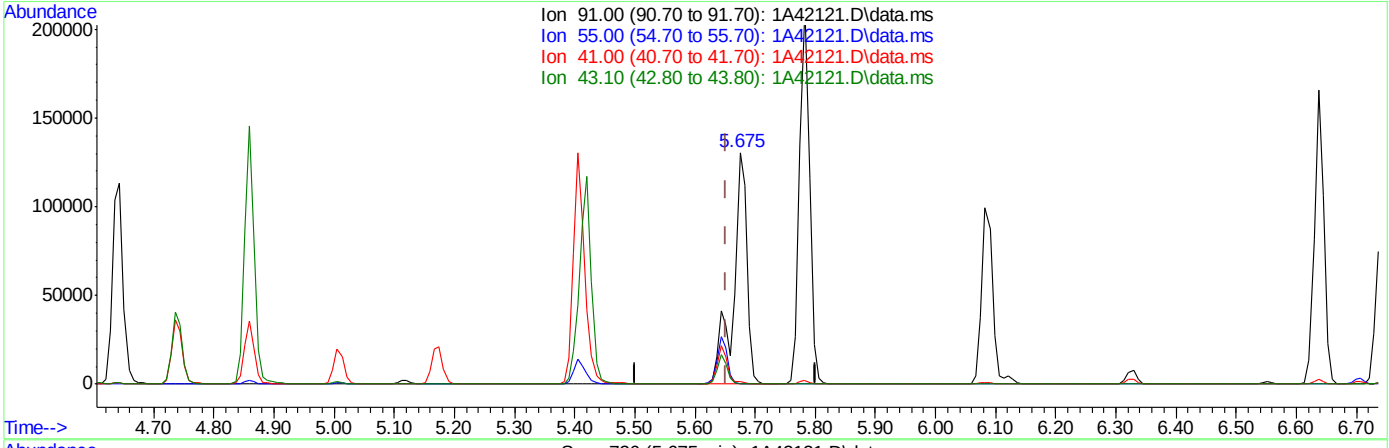
response 36438

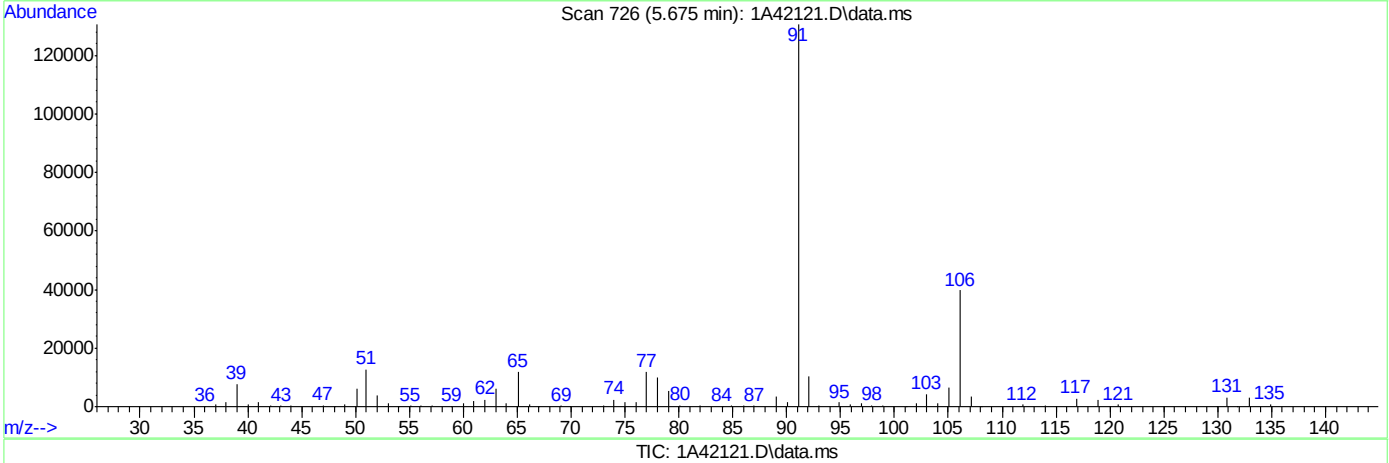
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	55.81
41.10	71.70	71.71
39.00	29.20	30.45

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42121.D
Acq On : 13 Dec 2022 9:50 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1697,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 13 10:05:45 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42121.D\data.ms

(76) 1-Chlorohexane

5.675min (+0.023) 103.33ug/L

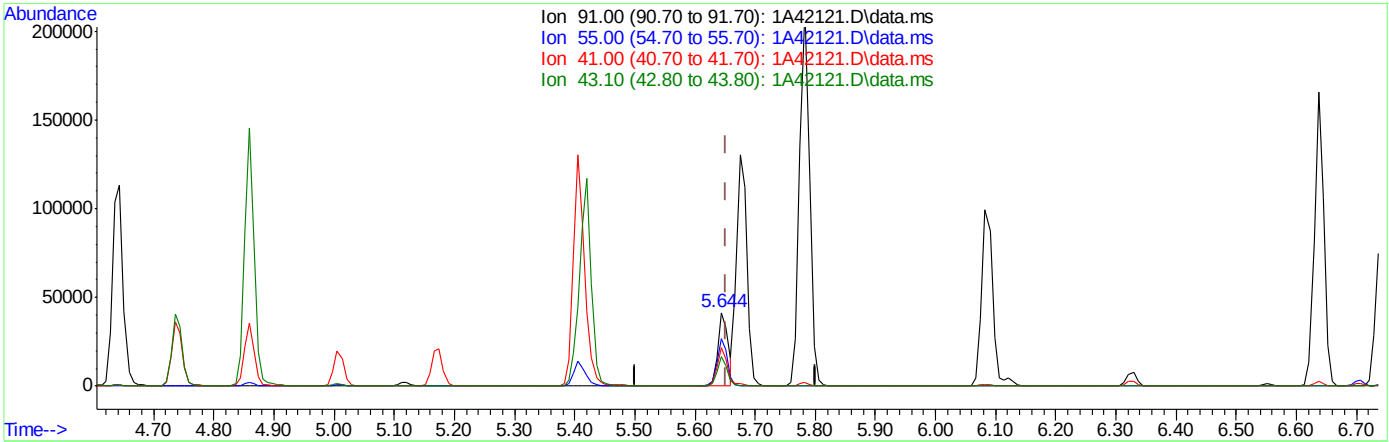
response 203702

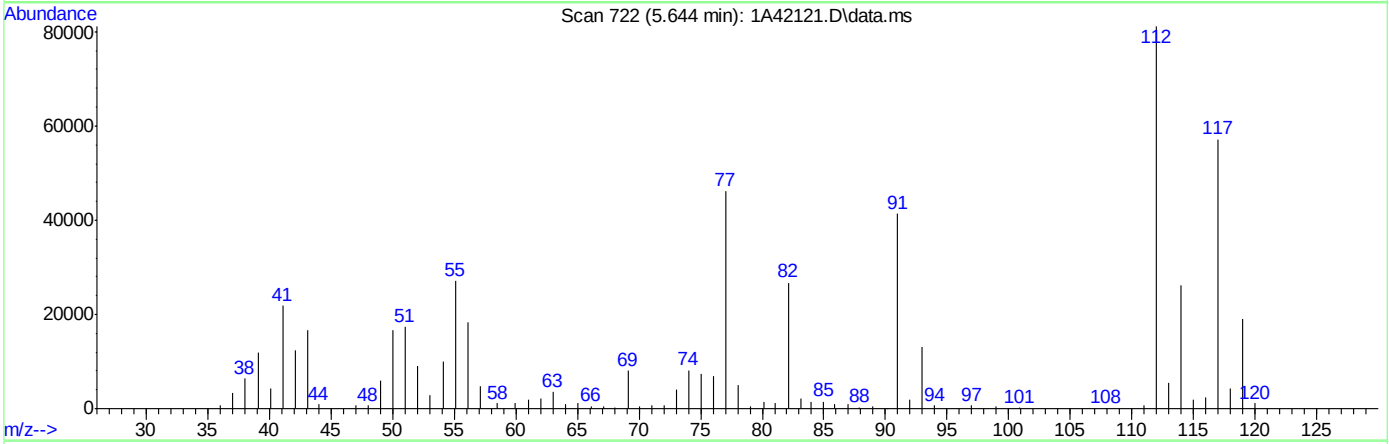
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	0.28#
41.00	48.10	0.93#
43.10	37.30	0.15#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42121.D
Acq On : 13 Dec 2022 9:50 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1697,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 13 10:05:45 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42121.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.008) 25.45ug/L m

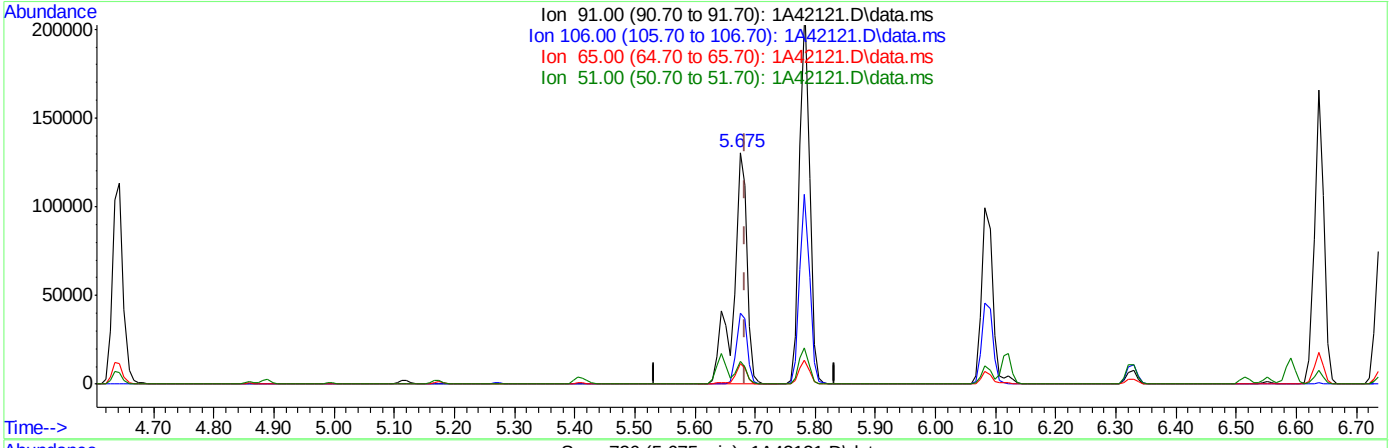
response 50178

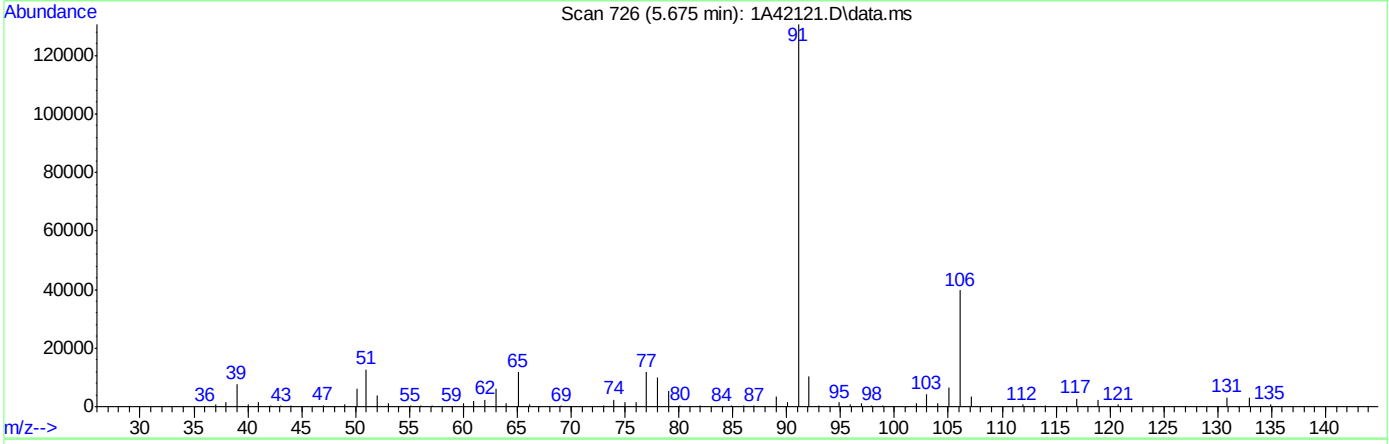
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	65.38
41.00	48.10	52.77
43.10	37.30	40.58

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42121.D
Acq On : 13 Dec 2022 9:50 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1697,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 13 10:05:45 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42121.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.008) 31.59ug/L

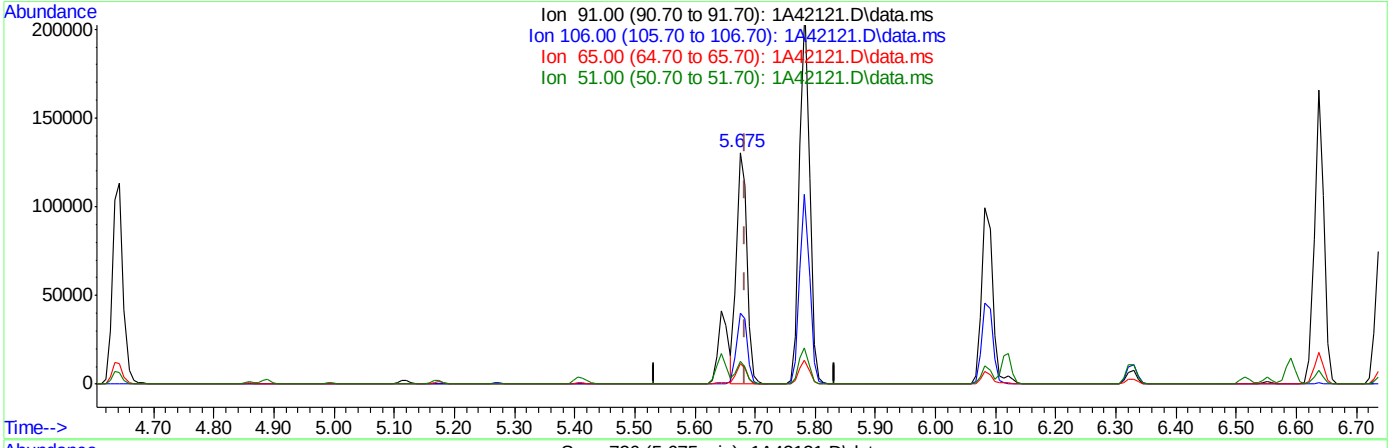
response 203702

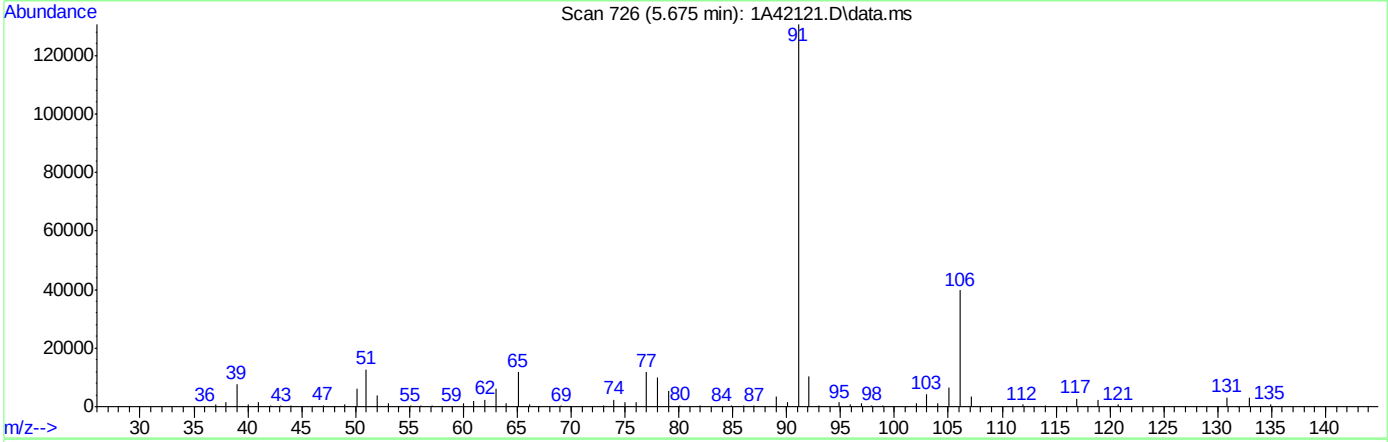
Ion	Exp%	Act%
91.00	100	100
106.00	32.70	30.48
65.00	8.50	9.01
51.00	9.00	9.77

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42121.D
Acq On : 13 Dec 2022 9:50 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1697,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 13 10:05:45 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42121.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.008) 23.80ug/L m

response 153484

Ion	Exp%	Act%
91.00	100	100
106.00	32.70	30.48
65.00	8.50	9.01
51.00	9.00	9.77

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/14/22 01:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96275.D
Acq On : 13 Dec 2022 10:49 am
Operator : courtnef
Sample : BS, 10X
Misc : MS53005,V2P3659,,,,,10
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 13 11:01:23 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.717	96	1038273	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	762917	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.325	152	349515	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.262	113	226361	52.17	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.34%			
49) 1,2-Dichloroethane-d4	3.549	65	309285	49.55	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.10%			
63) Toluene-d8	4.642	98	1046457	48.24	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.48%			
86) 4-Bromofluorobenzene	6.494	174	286218	53.43	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.122	85	125204	31.68	ug/L	99
3) Chloromethane	1.248	50	123971	27.90	ug/L	97
4) 1,3-butadiene	1.316	39	124924	26.97	ug/L	94
5) Vinyl Chloride	1.305	62	117790	24.31	ug/L	99
6) Bromomethane	1.509	94	27678	12.24	ug/L	89
7) Chloroethane	1.583	64	42782	30.19	ug/L	97
8) Trichlorofluoromethane	1.672	101	122545	22.49	ug/L	98
9) Ethyl Ether	1.881	59	79104	19.37	ug/L	97
10) Ethanol	1.975	45	53880	396.23	ug/L	97
11) 1,2-Dichlorotrifluoroe...	1.975	67	110280	23.53	ug/L	97
12) 1,1-Dichloroethene	1.980	61	151061	26.29	ug/L	97
13) Freon 113	2.012	101	90680	26.15	ug/L	97
14) Carbon Disulfide	2.001	76	251336	23.26	ug/L	94
15) Iodomethane	2.059	142	51990	20.29	ug/L	93
16) Acrolein	2.153	56	140833	111.22	ug/L	98
17) Allyl chloride	2.247	41	146500	27.94	ug/L	95
18) Methylene Chloride	2.299	49	122393	19.46	ug/L	96
19) Acetone	2.315	43	310323	109.27	ug/L	96
20) Methyl acetate	2.393	43	659008	109.32	ug/L	96
21) trans-1,2-Dichloroethene	2.399	61	146435	25.58	ug/L	95
22) Hexane	2.467	56	81630	25.96	ug/L	93
23) Methyl Tert Butyl Ether	2.467	73	336077	24.86	ug/L	84
24) Tert Butyl Alcohol	2.508	59	344536	244.06	ug/L	97
25) Acetonitrile	2.550	41	213764	206.92	ug/L	97
26) Di-isopropyl ether	2.686	45	322530	23.16	ug/L	96
27) Chloroprene	2.728	53	490119	23.79	ug/L	98
28) 1,1-Dichloroethane	2.728	63	194606	26.11	ug/L	99
29) Acrylonitrile	2.728	52	317627	117.19	ug/L	99
30) ETBE	2.880	59	311397	22.87	ug/L	96
31) Vinyl acetate	2.859	43	1337053	124.98	ug/L	99
32) cis-1,2-Dichloroethene	3.021	96	109065	26.34	ug/L	99
33) 2,2-Dichloropropane	3.084	77	157835	25.77	ug/L	98
34) Bromochloromethane	3.126	128	47396	27.98	ug/L	92
35) Cyclohexane	3.162	56	182447	27.16	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96275.D
Acq On : 13 Dec 2022 10:49 am
Operator : courtnef
Sample : BS, 10X
Misc : MS53005,V2P3659,,,,,10
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 13 11:01:23 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Chloroform	3.167	83	188814	25.78	ug/L	99
37) Ethyl acetate	3.225	43	873722	115.54	ug/L	98
38) Tetrahydrofuran	3.256	42	67656	22.80	ug/L	93
40) Carbon Tetrachloride	3.267	117	137921m	30.18	ug/L	
41) 1,1,1-Trichloroethane	3.293	97	172515	28.43	ug/L	96
42) 2-Butanone	3.314	43	542859	118.66	ug/L	97
43) 1,1-Dichloropropene	3.361	75	147923	26.47	ug/L	92
44) tert-Butyl formate	3.408	59	357621	110.89	ug/L	97
45) Propionitrile	3.460	54	303345	246.30	ug/L	97
46) Methacrylonitrile	3.481	41	948300	221.61	ug/L	98
47) Benzene	3.492	78	436008	24.51	ug/L	91
48) TAME	3.565	73	331390	25.75	ug/L	96
50) Isobutyl alcohol	3.591	43	351724m	452.15	ug/L	
51) 1,2-Dichloroethane	3.586	62	147495	24.37	ug/L	98
52) Tert Amyl Alcohol	3.649	59	275653	244.89	ug/L	97
53) Trichloroethene	3.821	95	110766	25.84	ug/L	98
54) Methylcyclohexane	3.842	83	179490	29.99	ug/L	97
55) Dibromomethane	4.046	93	61715	25.67	ug/L	95
56) 1,2-Dichloropropane	4.104	63	110408	25.76	ug/L	95
57) Bromodichloromethane	4.140	83	135625	29.23	ug/L	97
58) Methyl methacrylate	4.234	41	125389	24.79	ug/L	92
59) 1,4-Dioxane	4.261	88	61178	571.83	ug/L	95
60) 2-Chloroethyl vinyl ether	4.475	63	331946	113.66	ug/L	95
61) cis-1,3-Dichloropropene	4.517	75	174801	27.50	ug/L	92
64) Toluene	4.679	91	480114	24.36	ug/L	99
65) 2-Nitropropane	4.773	41	227582	111.59	ug/L	98
66) 4-Methyl-2-pentanone	4.888	43	962611	113.89	ug/L	97
67) trans-1,3-Dichloropropene	4.914	75	164121	27.91	ug/L	99
68) Tetrachloroethene	4.935	166	108055	27.70	ug/L	96
69) Ethyl methacrylate	5.024	69	151353	23.16	ug/L	92
70) 1,1,2-Trichloroethane	5.014	83	83873	24.17	ug/L	95
71) Dibromochloromethane	5.139	129	92900	27.35	ug/L	97
72) 1,3-Dichloropropane	5.191	76	174794	23.03	ug/L	93
73) 1,2-Dibromoethane	5.291	107	99591	25.00	ug/L	95
74) 3,3-dimethyl-1-butanol	5.427	57	1348853	1053.04	ug/L	99
75) 2-hexanone	5.427	43	977885	108.26	ug/L	99
76) 1-Chlorohexane	5.646	91	160873m	25.93	ug/L	
77) Ethylbenzene	5.678	91	529772	24.86	ug/L	99
78) Chlorobenzene	5.652	112	276528	24.20	ug/L	99
79) 1,1,1,2-Tetrachloroethane	5.694	131	95707	27.54	ug/L	97
80) m,p-Xylene	5.777	91	816540	48.85	ug/L	98
81) o-Xylene	6.075	91	409495	24.83	ug/L	99
82) Styrene	6.107	104	300783	25.42	ug/L	99
83) Bromoform	6.112	173	58373	32.12	ug/L	98
84) Isopropylbenzene	6.306	105	473368	25.19	ug/L	100
87) cis-1,4-Dichloro-2-butene	6.520	53	36197	17.16	ug/L	89
88) n-Propylbenzene	6.604	91	586759	24.04	ug/L	99
89) Bromobenzene	6.567	156	106039	24.18	ug/L	97
90) 1,1,2,2-Tetrachloroethane	6.625	83	153375	22.48	ug/L	97
91) 1,3,5-Trimethylbenzene	6.755	105	384493	23.68	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96275.D
Acq On : 13 Dec 2022 10:49 am
Operator : courtnef
Sample : BS, 10X
Misc : MS53005,V2P3659,,,,,10
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 13 11:01:23 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

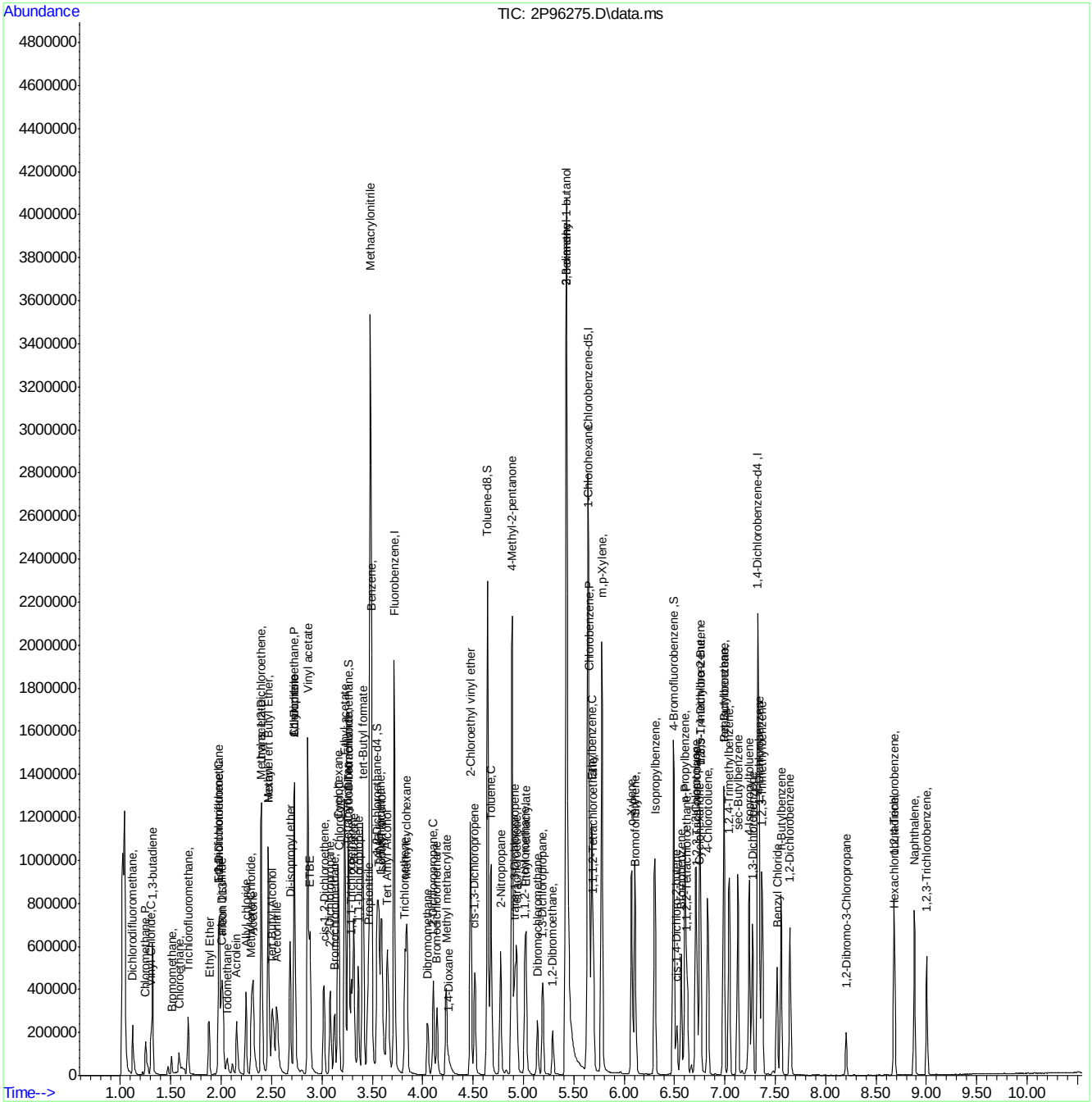
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 2-Chlorotoluene	6.708	91	338862	23.16	ug/L		98
93) trans-1,4-Dichloro-2-B...	6.755	53	47725	19.23	ug/L		92
94) 1,2,3-Trichloropropane	6.719	110	50069	20.90	ug/L		95
95) Cyclohexanone	6.745	55	46216	97.19	ug/L		93
96) 4-Chlorotoluene	6.829	91	357268	23.46	ug/L		99
97) tert-Butylbenzene	6.991	91	217102	23.41	ug/L		96
99) 1,2,4-Trimethylbenzene	7.043	105	374382	23.98	ug/L		98
100) Pentachloroethane	6.991	167	59421	30.23	ug/L	#	73
101) sec-Butylbenzene	7.127	105	453455	25.43	ug/L		99
102) 4-Isopropyltoluene	7.242	119	390180	25.95	ug/L		99
103) 1,3-Dichlorobenzene	7.273	146	202813	25.32	ug/L		98
104) 1,2,3-Trimethylbenzene	7.367	105	391712	25.17	ug/L		98
105) 1,4-Dichlorobenzene	7.341	146	206849	24.62	ug/L		99
106) n-Butylbenzene	7.556	92	177522	22.86	ug/L		98
107) Benzyl Chloride	7.519	126	50488	25.41	ug/L		98
108) 1,2-Dichlorobenzene	7.644	146	185832	24.54	ug/L		99
109) 1,2-Dibromo-3-Chloropr...	8.204	75	35059	23.29	ug/L		82
110) Hexachlorobutadiene	8.685	225	40275	30.00	ug/L		79
111) 1,2,4-Trichlorobenzene	8.680	180	98565	24.88	ug/L		97
112) Naphthalene	8.879	128	367160	22.36	ug/L		100
113) 1,2,3-Trichlorobenzene	9.004	180	97786	26.41	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96275.D
Acq On : 13 Dec 2022 10:49 am
Operator : courtnef
Sample : BS, 10X
Misc : MS53005,V2P3659,,,,,10
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 13 11:01:23 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



Manual Integration Approval Summary

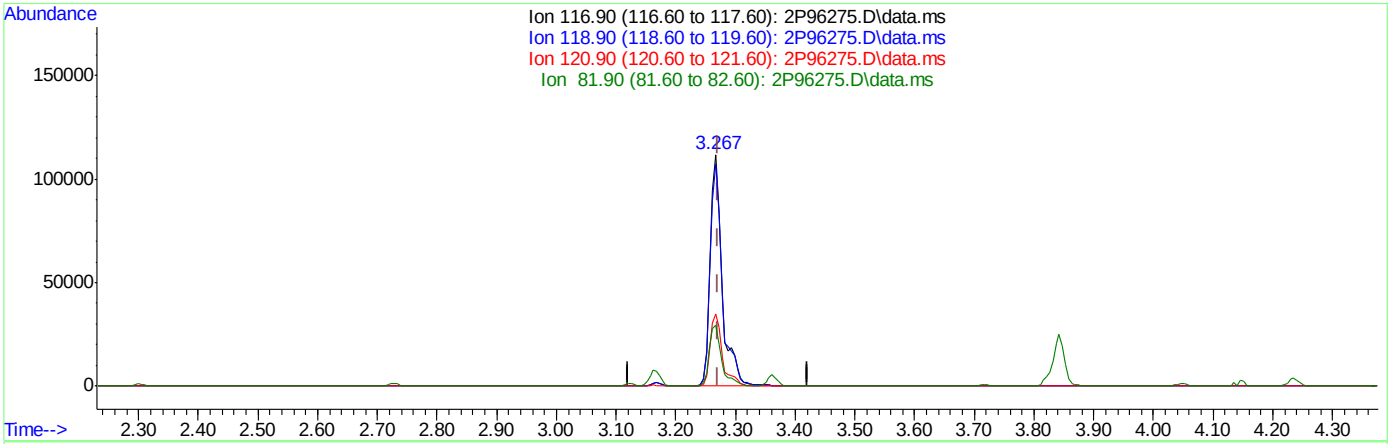
Sample Number: V2P3658-BS
Lab FileID: 2P96275.D
Injection Time: 12/13/22 10:49
Method: SW846 8260D
Analyst approved: 12/13/22 11:01 Courtney Failla
Supervisor approved: 12/14/22 01:26 Jennifer Fereira

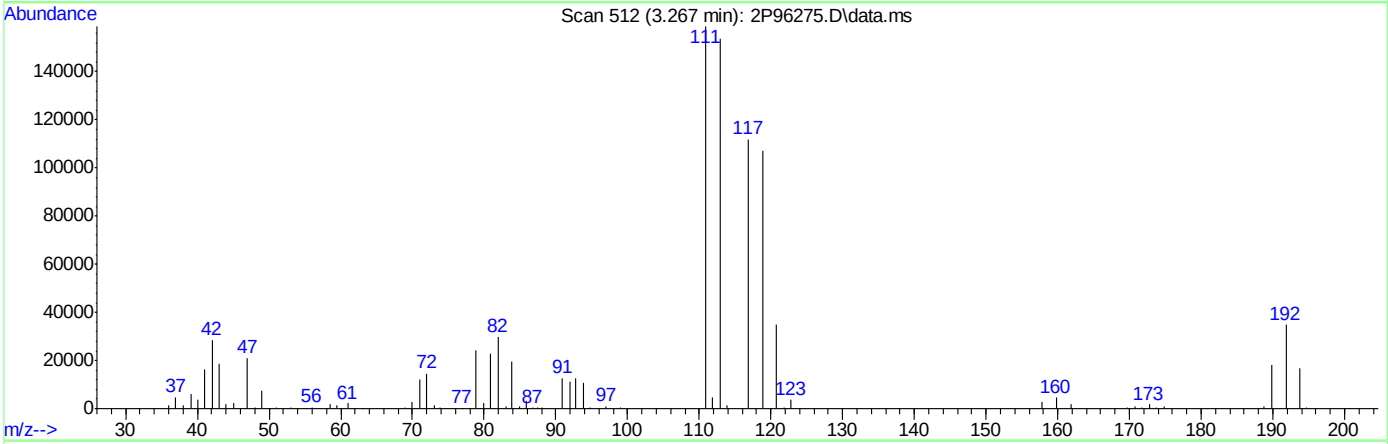
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96275.D
Acq On : 13 Dec 2022 10:49 am
Operator : courtnef
Sample : BS
Misc : MS52806,V2P3658,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 13 11:00:54 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96275.D\data.ms

(40) Carbon Tetrachloride ( )

3.267min (-0.004) 33.99ug/L

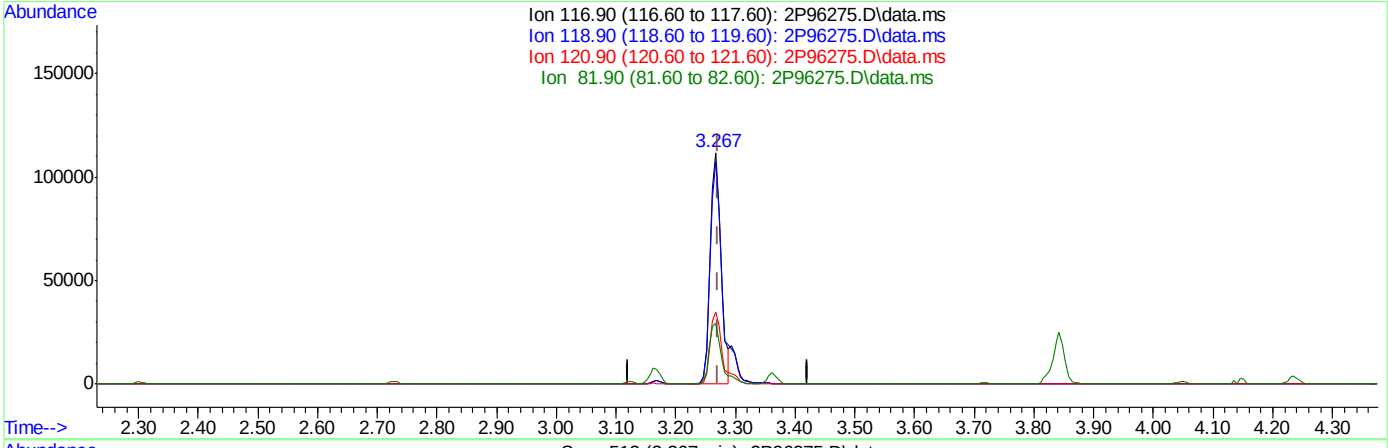
response 155356

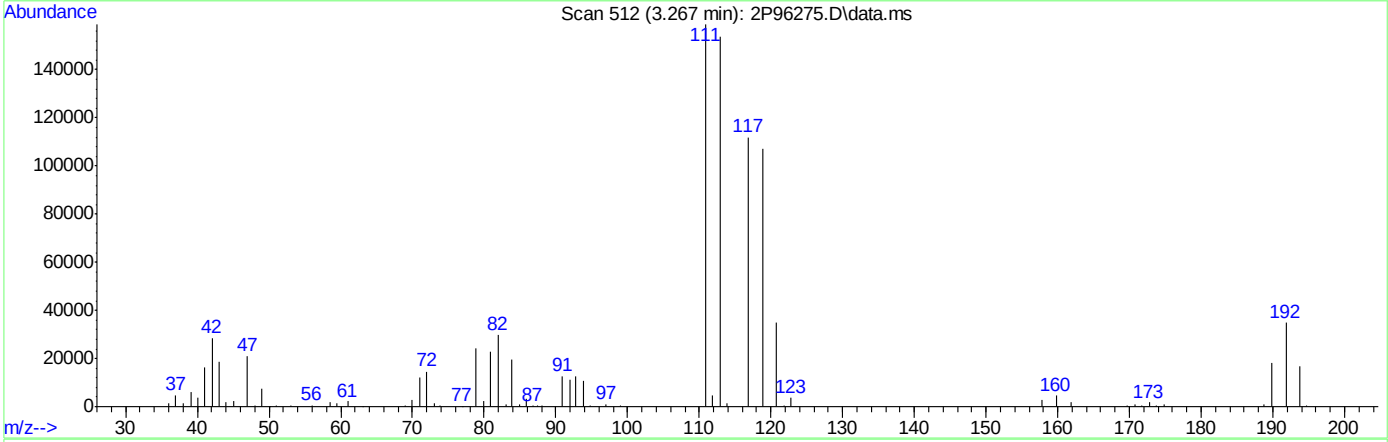
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	95.83
120.90	30.80	31.14
81.90	27.00	26.48

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96275.D
Acq On : 13 Dec 2022 10:49 am
Operator : courtnef
Sample : BS
Misc : MS52806,V2P3658,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 13 11:00:54 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96275.D\data.ms

(40) Carbon Tetrachloride ( )

3.267min (-0.004) 30.18ug/L m

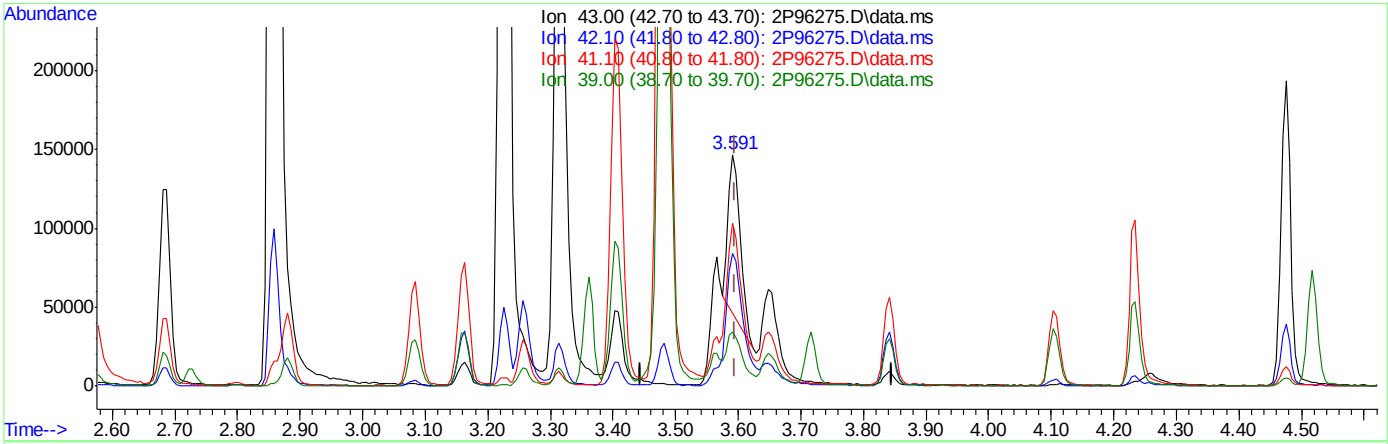
response 137921

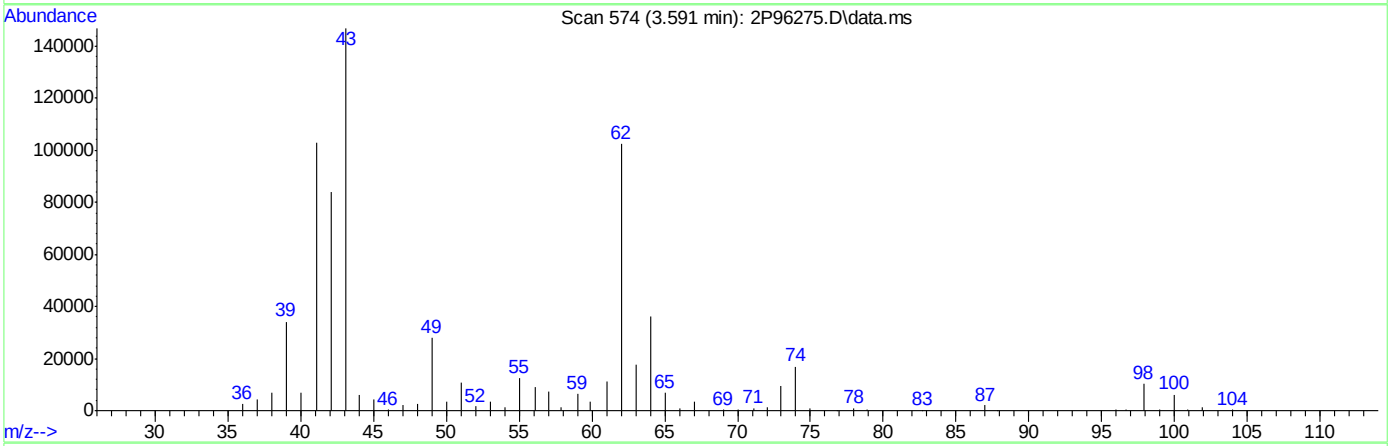
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	95.83
120.90	30.80	31.14
81.90	27.00	26.48

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96275.D
Acq On : 13 Dec 2022 10:49 am
Operator : courtnef
Sample : BS
Misc : MS52806,V2P3658,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 13 11:00:54 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96275.D\data.ms

(50) Isobutyl alcohol

3.591min (-0.004) 163.34ug/L

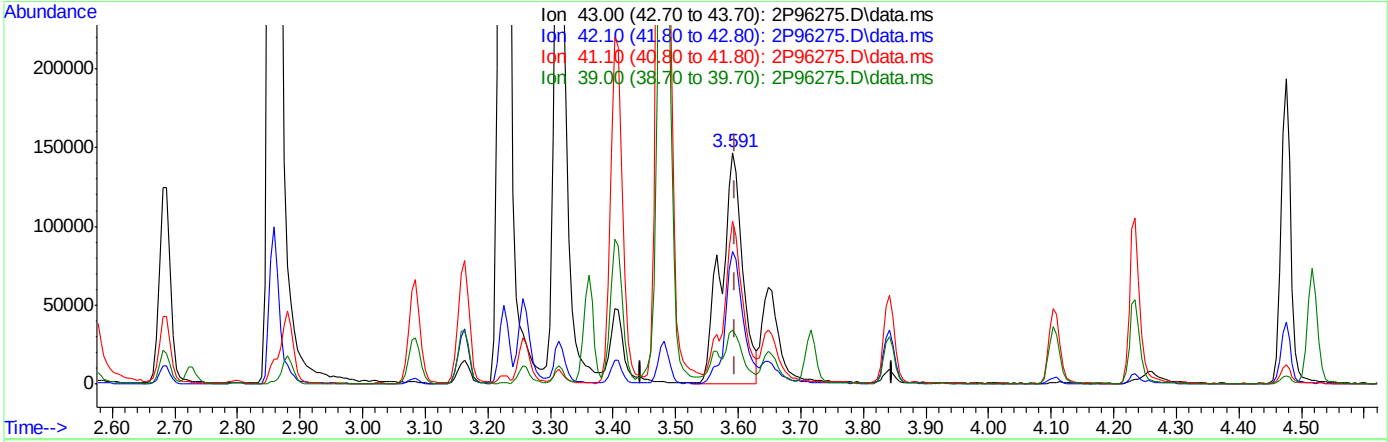
response 127060

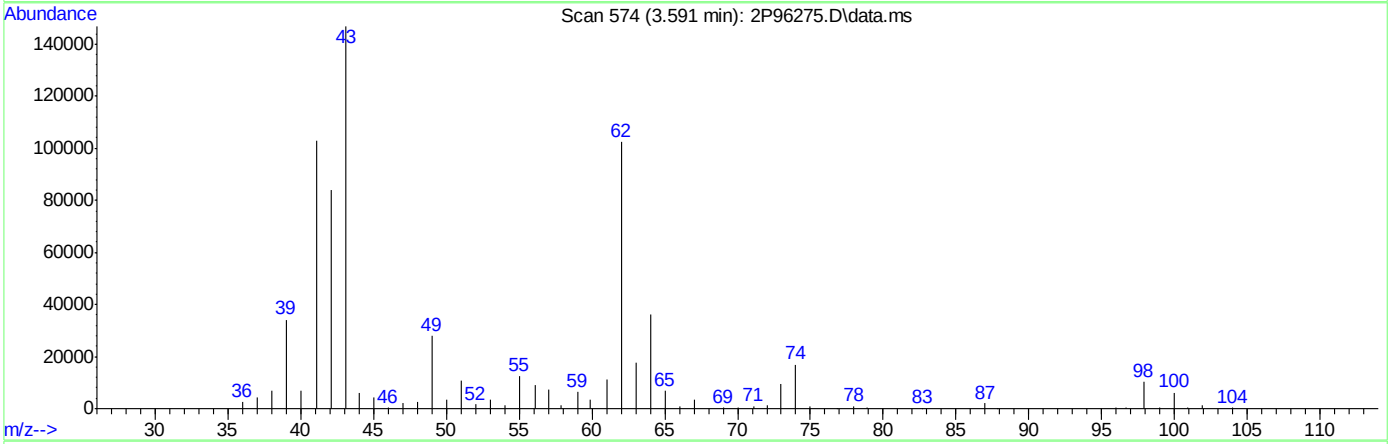
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	56.78
41.10	71.90	69.69
39.00	26.60	21.81

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96275.D
Acq On : 13 Dec 2022 10:49 am
Operator : courtnef
Sample : BS
Misc : MS52806,V2P3658,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 13 11:00:54 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96275.D\data.ms

(50) Isobutyl alcohol

3.591min (-0.004) 452.15ug/L m

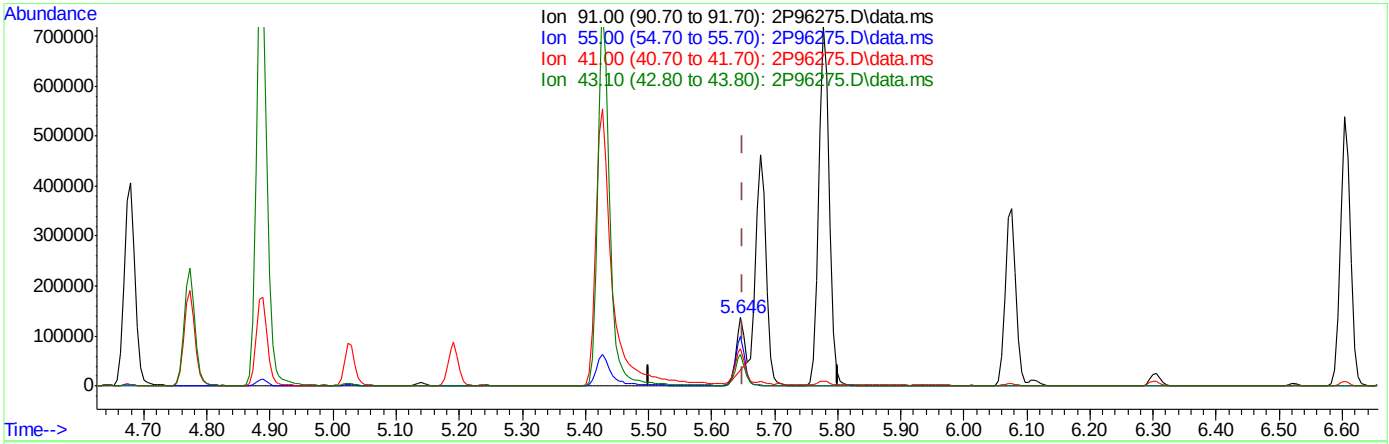
response 351724

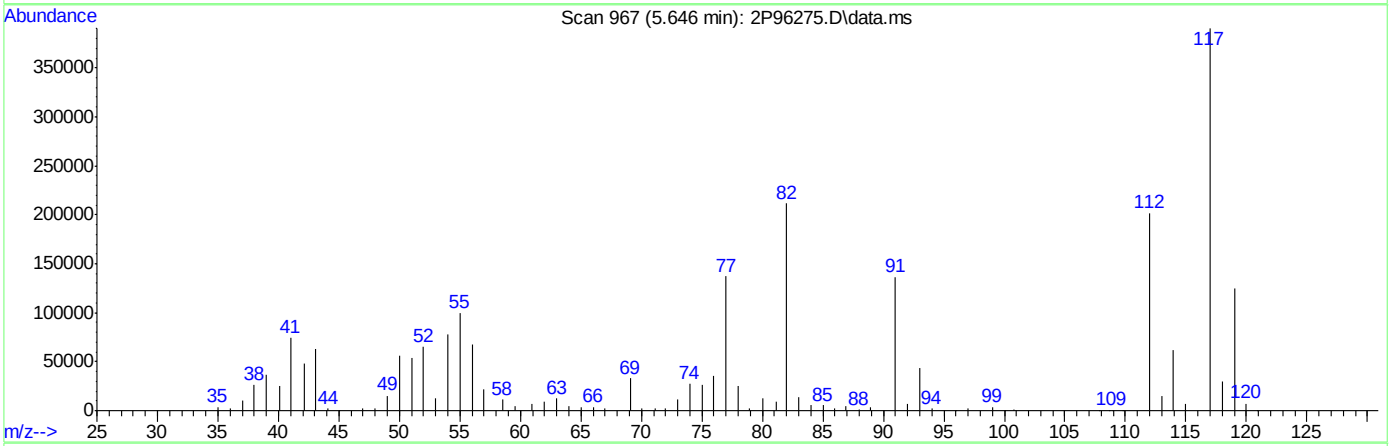
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	57.15
41.10	71.90	70.17
39.00	26.60	23.19

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96275.D
Acq On : 13 Dec 2022 10:49 am
Operator : courtnef
Sample : BS
Misc : MS52806,V2P3658,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 13 11:00:54 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96275.D\data.ms

(76) 1-Chlorohexane

5.646min (-0.004) 15.50ug/L

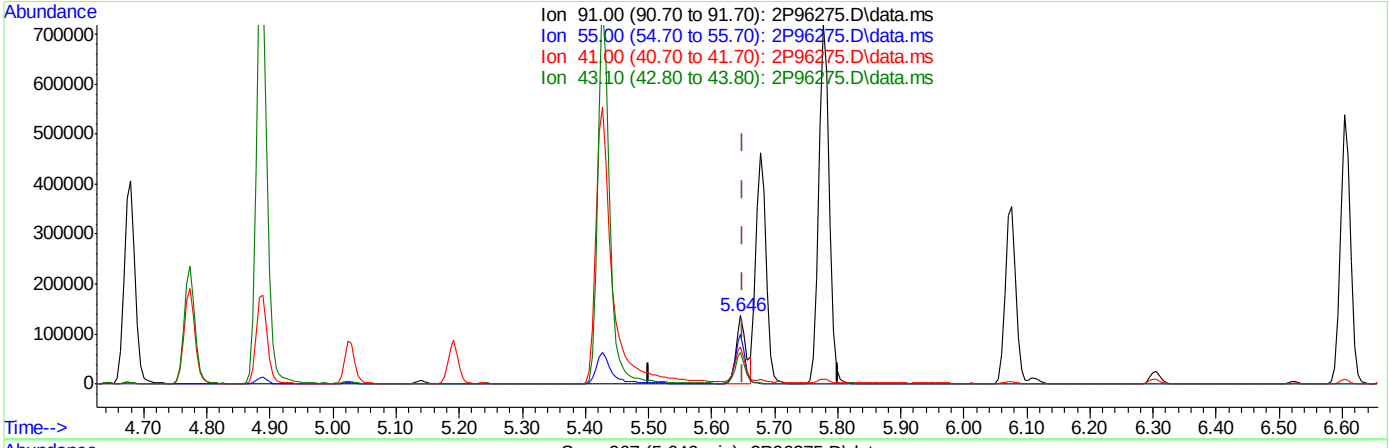
response 96136

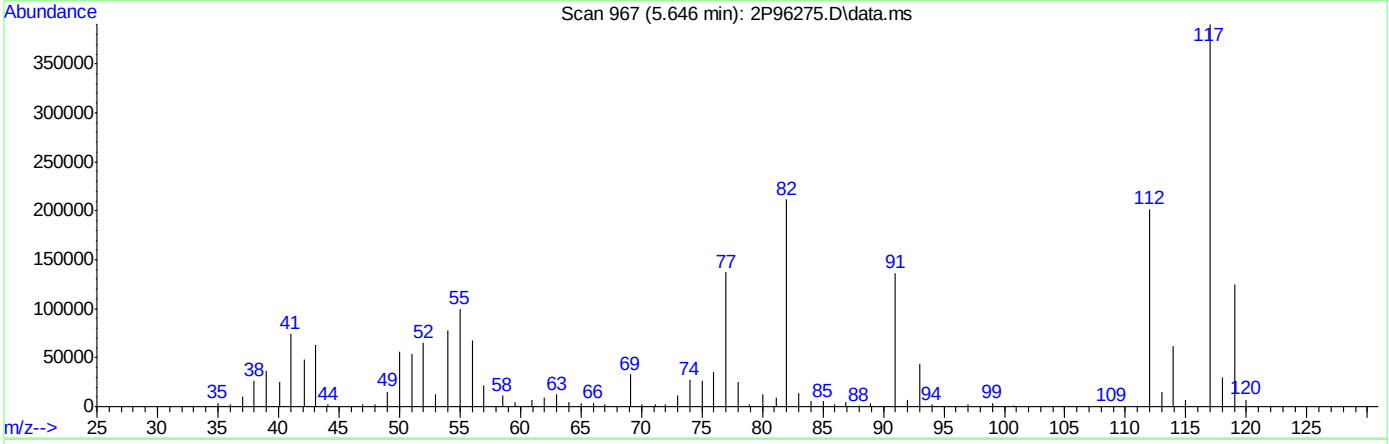
Ion	Exp%	Act%
91.00	100	100
55.00	73.60	70.78
41.00	60.90	49.86
43.10	49.80	43.83

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96275.D
Acq On : 13 Dec 2022 10:49 am
Operator : courtnef
Sample : BS
Misc : MS52806,V2P3658,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 13 11:00:54 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96275.D\data.ms

(76) 1-Chlorohexane

5.646min (-0.004) 25.93ug/L m

response 160873

Ion	Exp%	Act%
91.00	100	100
55.00	73.60	73.23
41.00	60.90	54.41
43.10	49.80	45.84

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/16/22 02:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42151.D
Acq On : 14 Dec 2022 10:32 am
Operator : joannel
Sample : BS
Misc : MS52940,V1A1699,,,,,10
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 10:49:55 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	231107	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	178377	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.384	152	95372	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	65292	44.03	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 88.06%			
49) 1,2-Dichloroethane-d4	3.474	65	74556	49.05	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.10%			
63) Toluene-d8	4.605	98	224411	50.02	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.04%			
86) 4-Bromofluorobenzene	6.514	174	79434	48.88	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.76%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.034	85	33145	20.44	ug/L	98
3) Chloromethane	1.165	50	26374	17.64	ug/L	99
4) 1,3-butadiene	1.226	39	29895	27.18	ug/L	93
5) Vinyl Chloride	1.211	62	30657	20.32	ug/L	96
6) Bromomethane	1.411	94	18489	18.32	ug/L	98
7) Chloroethane	1.480	64	10478	17.55	ug/L	93
8) Trichlorofluoromethane	1.580	101	51887	22.87	ug/L	97
9) Ethyl Ether	1.773	59	20068	18.62	ug/L	99
10) Ethanol	1.850	45	7885	363.42	ug/L	92
11) 1,2-Dichlorotrifluoroe...	1.873	67	33257	19.81	ug/L	97
12) 1,1-Dichloroethene	1.881	61	38833	19.54	ug/L	94
13) Freon 113	1.911	101	30907	22.11	ug/L	96
14) Carbon Disulfide	1.896	76	83117	21.04	ug/L	99
15) Iodomethane	1.958	142	30881	21.36	ug/L	100
16) Acrolein	2.050	56	23102	73.21	ug/L	98
17) Allyl chloride	2.142	41	35216	19.68	ug/L	98
18) Methylene Chloride	2.204	49	29144	16.18	ug/L	91
19) Acetone	2.212	43	47253	98.52	ug/L	98
20) Methyl acetate	2.296	43	109998	98.65	ug/L	100
21) trans-1,2-Dichloroethene	2.304	61	37349	18.95	ug/L	89
22) Hexane	2.373	56	25815	22.86	ug/L	93
23) Methyl Tert Butyl Ether	2.373	73	78274	19.10	ug/L	92
24) Acetonitrile	2.373	41	46161m	210.72	ug/L	
25) Tert Butyl Alcohol	2.404	59	49660	200.68	ug/L	98
26) Di-isopropyl ether	2.589	45	73463	19.36	ug/L	97
27) Chloroprene	2.635	53	104720	22.43	ug/L	98
28) 1,1-Dichloroethane	2.635	63	49317	19.78	ug/L	100
29) Acrylonitrile	2.635	52	63517	112.27	ug/L	95
30) ETBE	2.796	59	79047	19.35	ug/L	97
31) Vinyl acetate	2.773	43	324844	120.47	ug/L	100
32) cis-1,2-Dichloroethene	2.935	96	30564	19.44	ug/L	93
33) 2,2-Dichloropropane	2.997	77	41974	18.52	ug/L	99
34) Bromochloromethane	3.043	128	15803	21.33	ug/L #	80
35) Cyclohexane	3.074	56	48845	22.11	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42151.D
Acq On : 14 Dec 2022 10:32 am
Operator : joannel
Sample : BS
Misc : MS52940,V1A1699,,,,,10
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 10:49:55 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.081	83	52625	19.32	ug/L		98
37) Ethyl acetate	3.151	43	169983	113.29	ug/L		98
38) Tetrahydrofuran	3.151	42	22686	43.87	ug/L	#	34
40) Carbon Tetrachloride	3.181	117	41461m	20.49	ug/L		
41) 1,1,1-Trichloroethane	3.212	97	46508	20.40	ug/L		99
42) 2-Butanone	3.235	43	78623	92.38	ug/L		100
43) 1,1-Dichloropropene	3.281	75	39660	20.16	ug/L		97
44) tert-Butyl formate	3.328	59	83706	68.98	ug/L		98
45) Propionitrile	3.381	54	47340	191.81	ug/L		99
46) Methacrylonitrile	3.404	41	176289	195.06	ug/L		99
47) Benzene	3.420	78	112339	19.68	ug/L		98
48) TAME	3.497	73	78004	19.83	ug/L		99
50) 1,2-Dichloroethane	3.512	62	38509	19.35	ug/L		99
51) Isobutyl Alcohol	3.512	43	25741m	365.89	ug/L		
52) Tert Amyl Alcohol	3.574	59	40392	199.96	ug/L		98
53) Trichloroethene	3.759	95	32404	20.13	ug/L		98
54) Methylcyclohexane	3.774	83	56904	23.91	ug/L		99
55) Dibromomethane	3.989	93	18911	19.21	ug/L		96
56) 1,2-Dichloropropane	4.051	63	27026	18.75	ug/L		99
57) Bromodichloromethane	4.089	83	38026	19.91	ug/L		99
58) Methyl methacrylate	4.182	41	26322	19.95	ug/L		94
59) 1,4-Dioxane	4.205	88	8561	424.81	ug/L		93
60) 2-Chloroethyl vinyl ether	4.436	63	93490	95.66	ug/L		98
61) cis-1,3-Dichloropropene	4.474	75	45103	19.57	ug/L		99
64) Toluene	4.644	91	121430	20.27	ug/L		99
65) 2-Nitropropane	4.744	41	40746	102.40	ug/L		98
66) 4-Methyl-2-pentanone	4.859	43	154568	92.96	ug/L		100
67) trans-1,3-Dichloropropene	4.890	75	41389	21.49	ug/L		99
68) Tetrachloroethene	4.905	166	37384	22.70	ug/L		97
69) Ethyl methacrylate	5.013	69	34068	18.96	ug/L		92
70) 1,1,2-Trichloroethane	4.990	83	22364	20.90	ug/L		99
71) Dibromochloromethane	5.121	129	29228	20.51	ug/L		98
72) 1,3-Dichloropropane	5.175	76	41429	19.41	ug/L		99
73) 1,2-Dibromoethane	5.275	107	28928	20.75	ug/L		100
74) 3,3-Dimethyl-1-Butanol	5.406	57	189154	885.80	ug/L		99
75) 2-hexanone	5.421	43	144178	92.36	ug/L		93
76) 1-Chlorohexane	5.644	91	43778m	22.43	ug/L		
77) Ethylbenzene	5.675	91	134457m	21.06	ug/L		
78) Chlorobenzene	5.644	112	80774	21.41	ug/L		99
79) 1,1,1,2-Tetrachloroethane	5.690	131	29519	21.94	ug/L		97
80) m,p-Xylene	5.783	91	211901	42.15	ug/L		99
81) o-Xylene	6.091	91	109235	21.03	ug/L		99
82) Styrene	6.121	104	84665	21.14	ug/L		99
83) Bromoform	6.121	173	20389	21.27	ug/L		99
84) Isopropylbenzene	6.329	105	134722	22.01	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.552	53	9512	16.16	ug/L		94
88) n-Propylbenzene	6.637	91	160962	21.67	ug/L		99
89) Bromobenzene	6.591	156	34281	20.62	ug/L		97
90) 1,1,2,2-Tetrachloroethane	6.660	83	37389	20.33	ug/L		98
91) 1,3,5-Trimethylbenzene	6.791	105	113436	20.98	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42151.D
Acq On : 14 Dec 2022 10:32 am
Operator : joannel
Sample : BS
Misc : MS52940,V1A1699,,,,,10
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 10:49:55 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

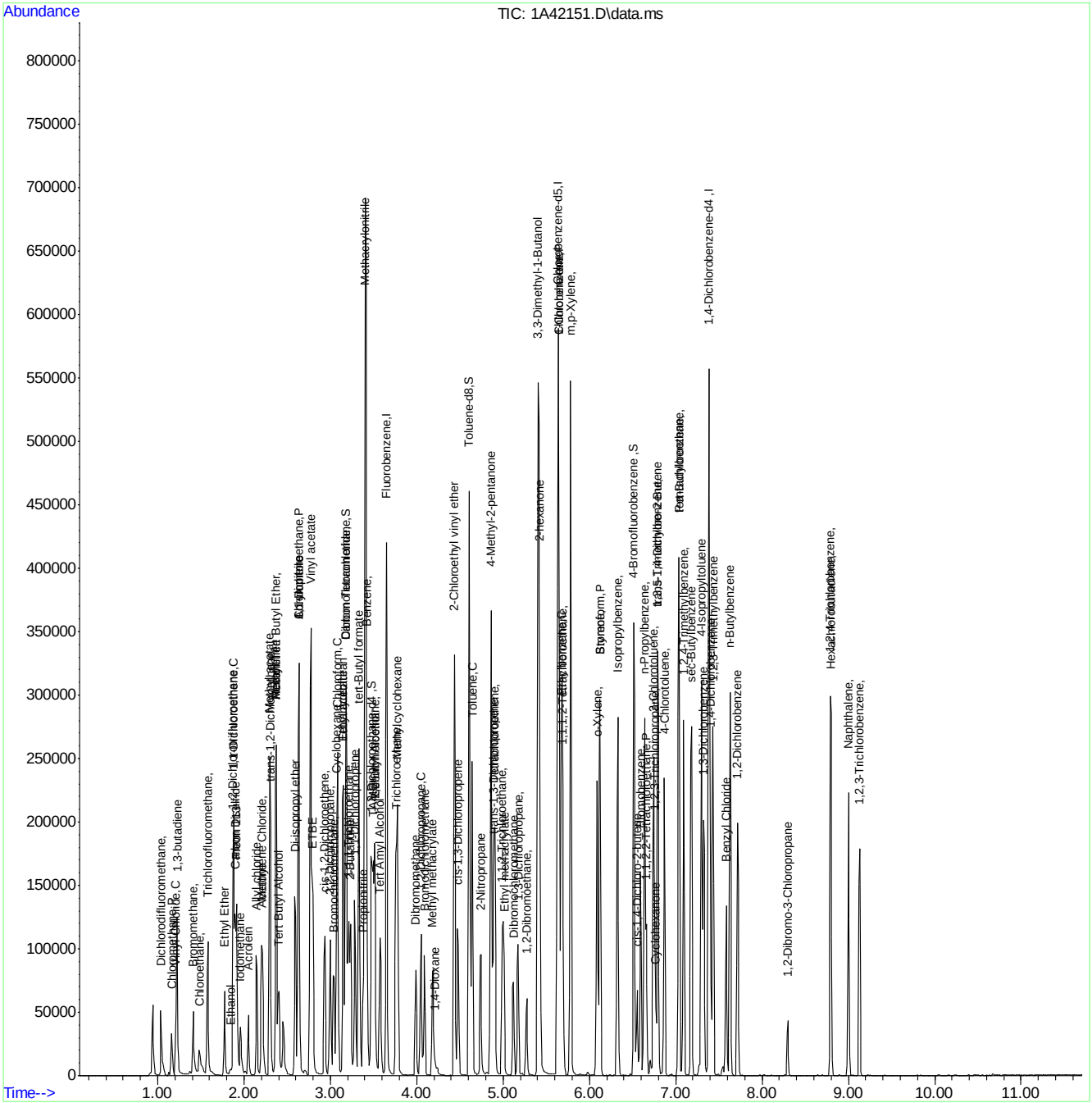
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92)	2-Chlorotoluene	6.745	91	90669	21.01	ug/L	99
93)	trans-1,4-Dichloro-2-B...	6.791	53	12464	19.32	ug/L	99
94)	1,2,3-Trichloropropane	6.752	110	10930	19.68	ug/L	90
95)	Cyclohexanone	6.768	55	7924	110.71	ug/L	98
96)	4-Chlorotoluene	6.868	91	94858	21.03	ug/L	99
97)	tert-Butylbenzene	7.037	91	65932	21.56	ug/L	98
98)	1,2,4-Trimethylbenzene	7.091	105	111160	21.50	ug/L	99
99)	Pentachloroethane	7.037	167	19003	22.12	ug/L	93
100)	sec-Butylbenzene	7.183	105	149946	23.60	ug/L	99
101)	4-Isopropyltoluene	7.299	119	131323	23.44	ug/L	100
102)	1,3-Dichlorobenzene	7.322	146	65994	22.04	ug/L	96
103)	1,2,3-Trimethylbenzene	7.430	105	113770	22.86	ug/L	99
104)	1,4-Dichlorobenzene	7.399	146	65302	21.26	ug/L	99
105)	n-Butylbenzene	7.630	92	61636	21.86	ug/L	99
106)	Benzyl Chloride	7.584	126	14792	20.63	ug/L	99
107)	1,2-Dichlorobenzene	7.714	146	60421	21.68	ug/L	98
108)	1,2-Dibromo-3-Chloropr...	8.299	75	6915	19.32	ug/L	99
109)	Hexachlorobutadiene	8.800	225	24502	23.70	ug/L	98
110)	1,2,4-Trichlorobenzene	8.792	180	41675	21.57	ug/L	99
111)	Naphthalene	9.000	128	108705	20.49	ug/L	100
112)	1,2,3-Trichlorobenzene	9.131	180	38096	20.87	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42151.D
Acq On : 14 Dec 2022 10:32 am
Operator : joannel
Sample : BS
Misc : MS52940,V1A1699,,,,,10
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 10:49:55 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



Manual Integration Approval Summary

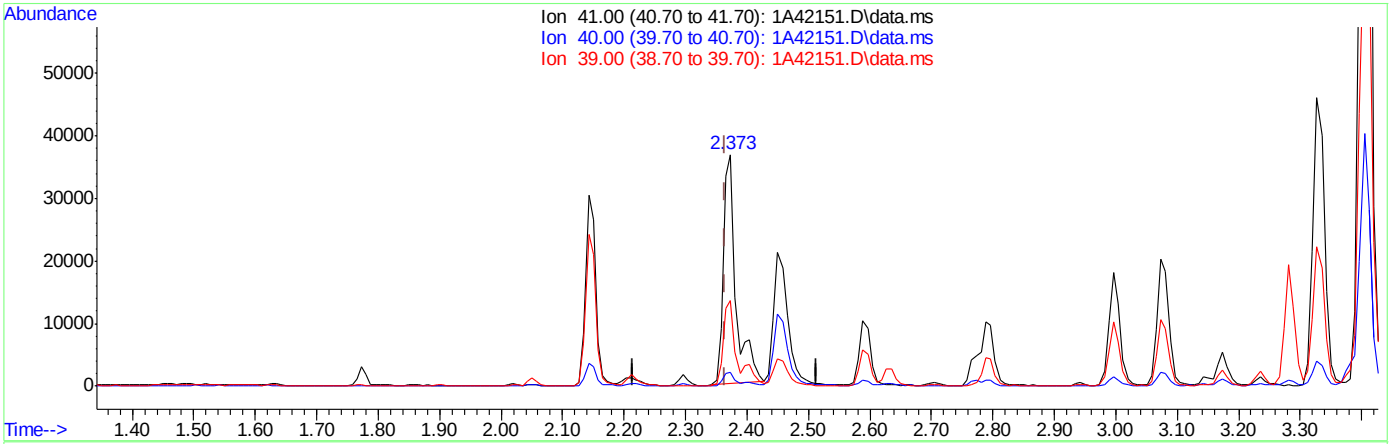
Sample Number: V1A1698-BS
Lab FileID: 1A42151.D
Injection Time: 12/14/22 10:32
Method: SW846 8260D
Analyst approved: 12/14/22 10:51 Jo-Ann Lugo De Jesus
Supervisor approved: 12/16/22 02:57 Jennifer Fereira

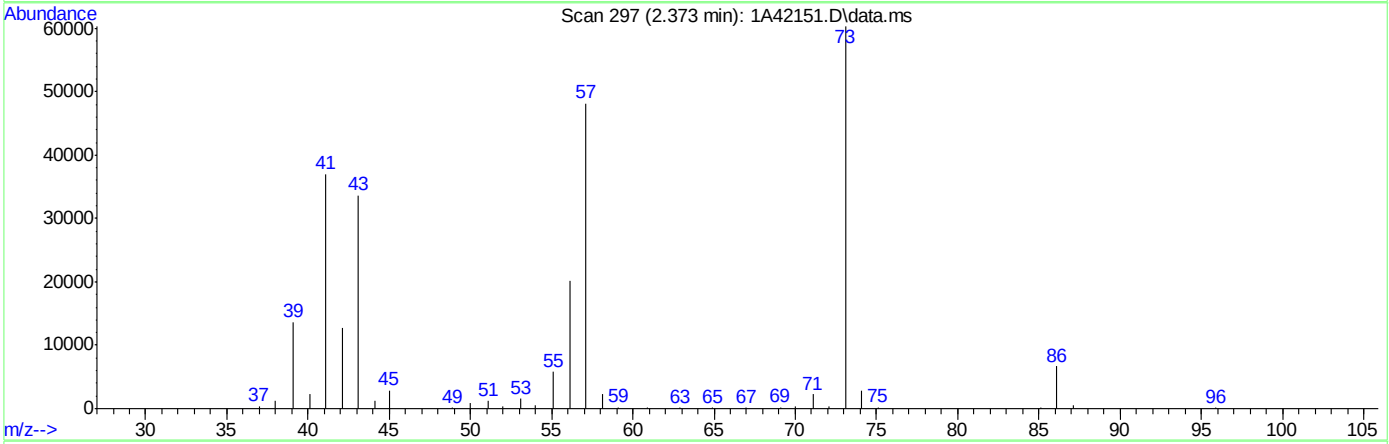
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.37	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.18	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration
Ethylbenzene	100-41-4		5.67	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42151.D
Acq On : 14 Dec 2022 10:32 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1698,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 10:48:39 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42151.D\data.ms

(24) Acetonitrile

2.373min (+0.008) 242.65ug/L

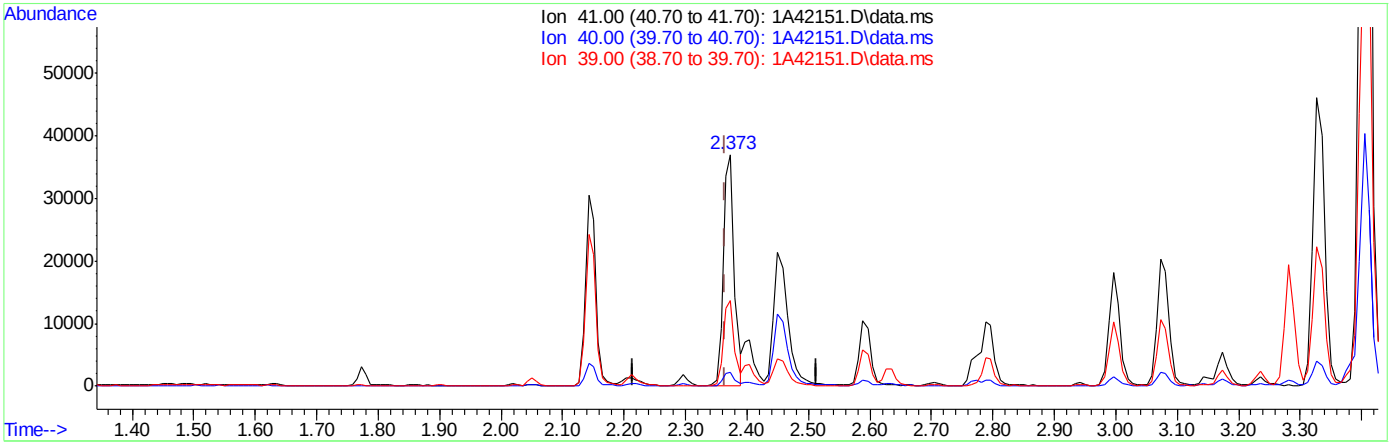
response 53154

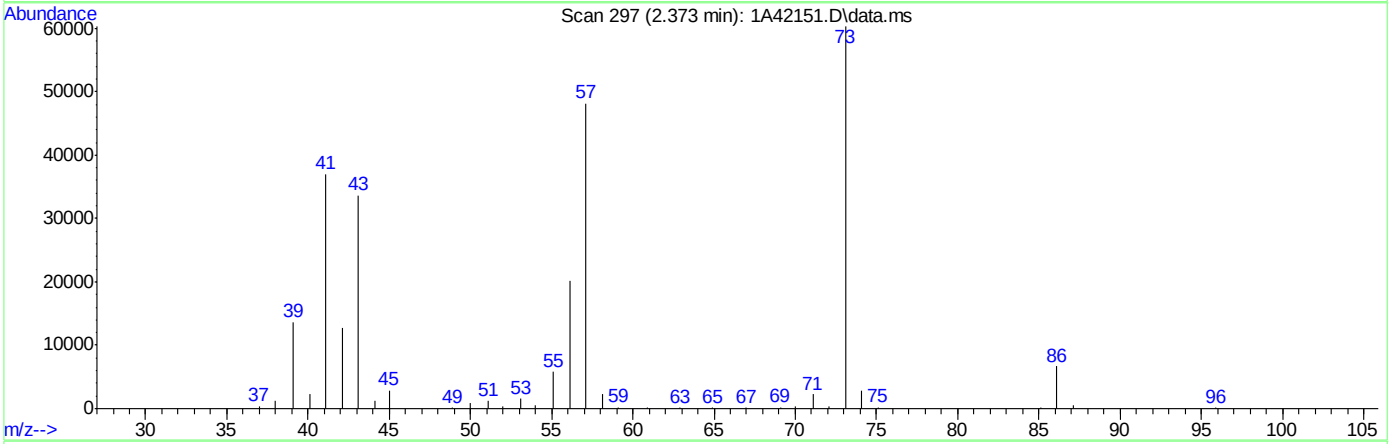
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	5.86
39.00	37.60	36.78
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42151.D
Acq On : 14 Dec 2022 10:32 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1698,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 10:48:39 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42151.D\data.ms

(24) Acetonitrile

2.373min (+0.008) 210.72ug/L m

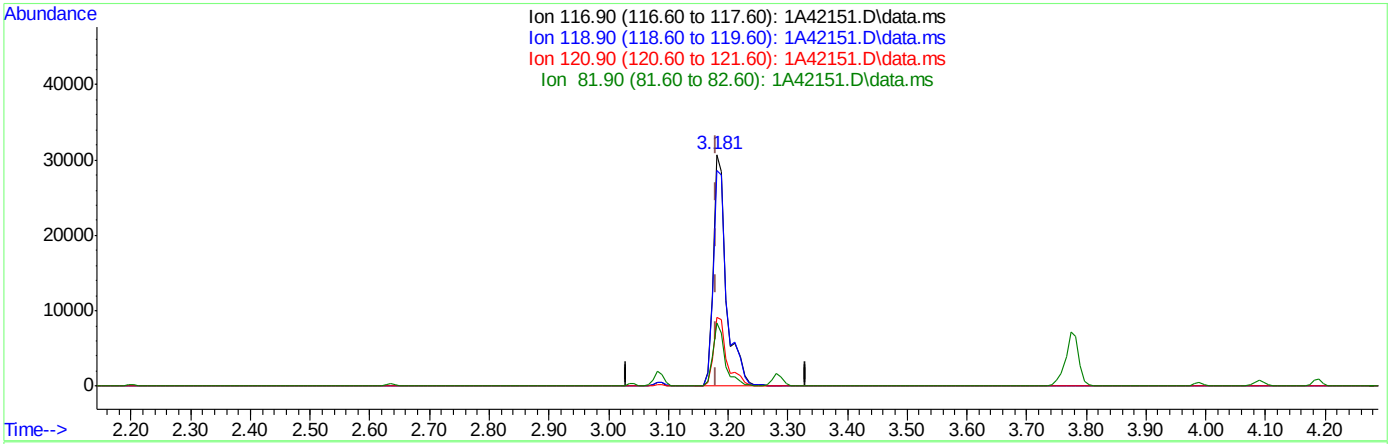
response 46161

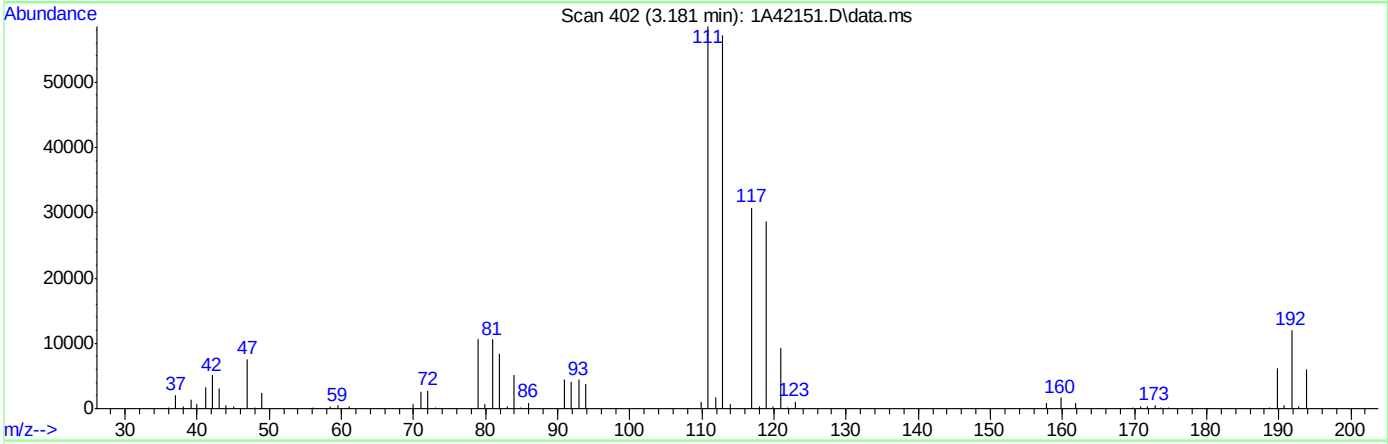
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.20
39.00	37.60	36.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42151.D
Acq On : 14 Dec 2022 10:32 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1698,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 10:48:39 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42151.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 23.31ug/L

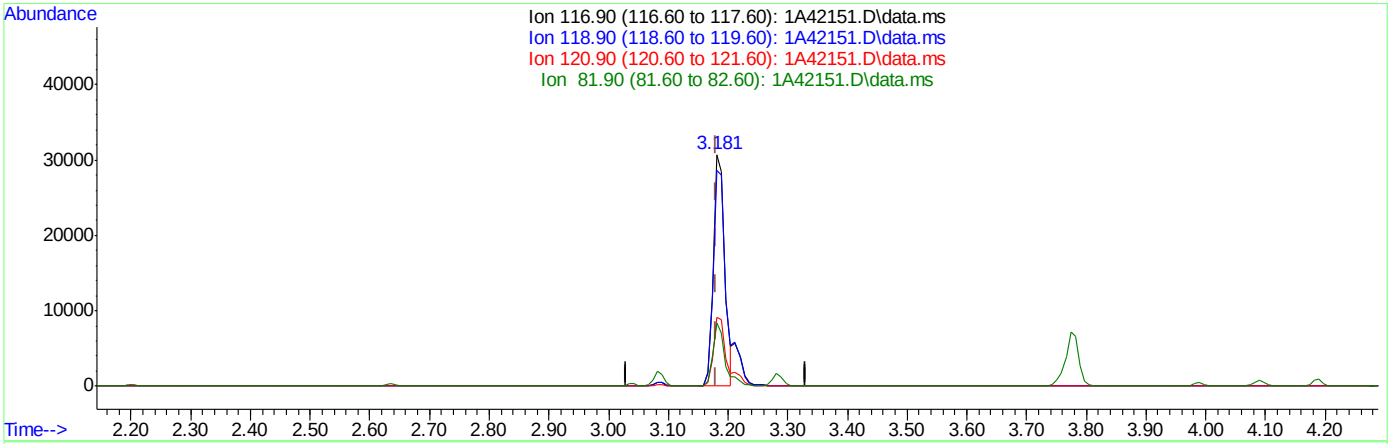
response 47172

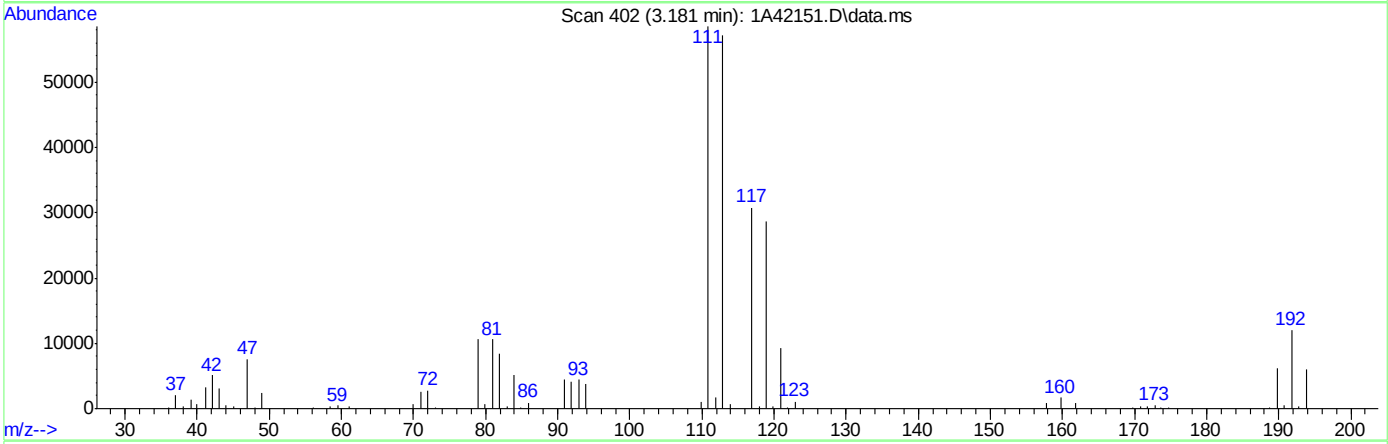
Ion	Exp%	Act%
116.90	100	100
118.90	95.70	93.16
120.90	30.30	29.93
81.90	26.50	27.18

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42151.D
Acq On : 14 Dec 2022 10:32 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1698,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 10:48:39 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42151.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 20.49ug/L m

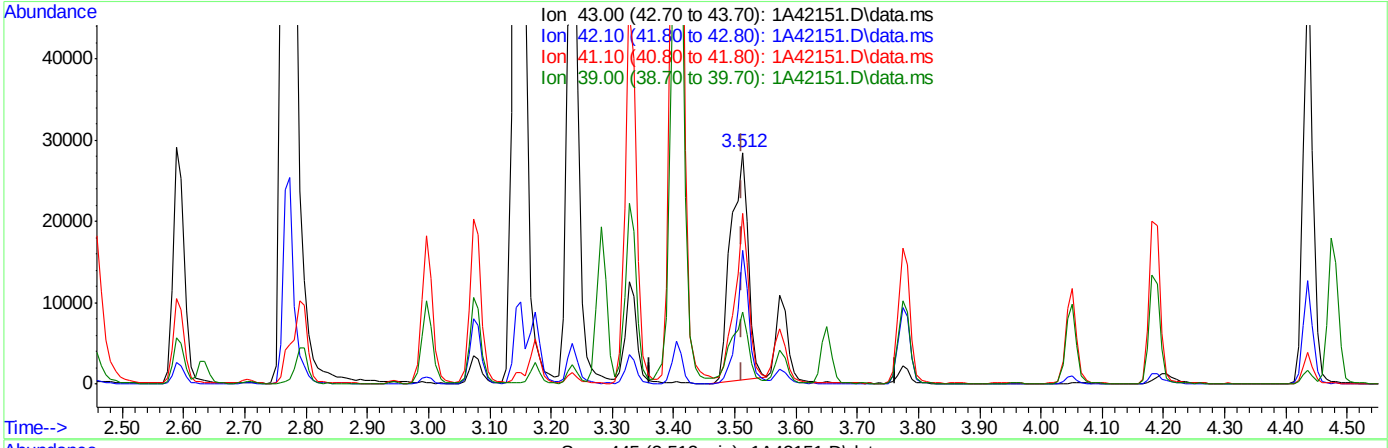
response 41461

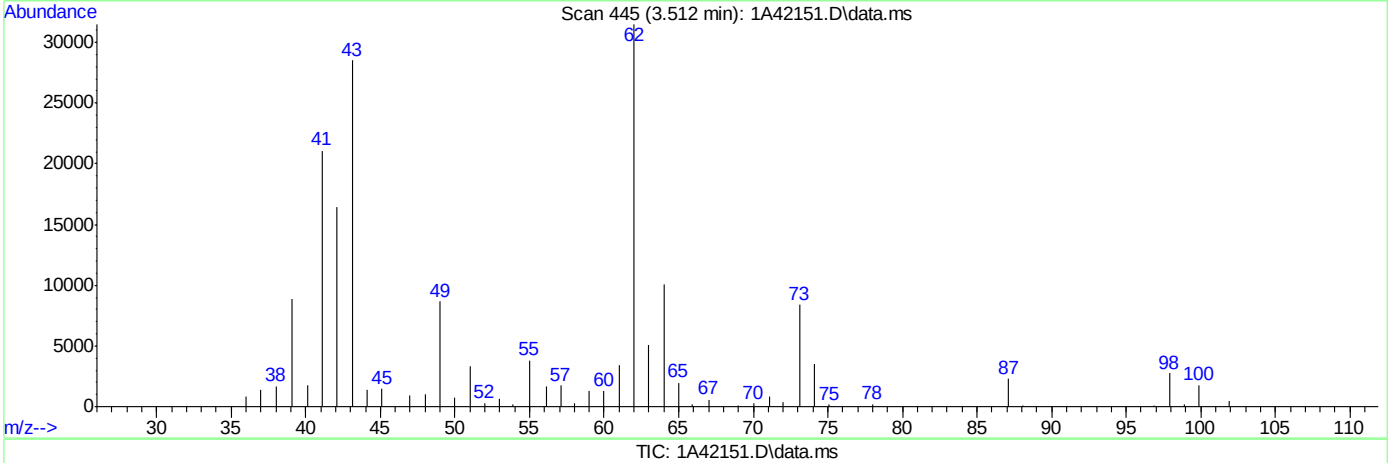
Ion	Exp%	Act%
116.90	100	100
118.90	95.70	93.16
120.90	30.30	29.93
81.90	26.50	27.18

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42151.D
Acq On : 14 Dec 2022 10:32 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1698,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 10:48:39 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42151.D\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 773.65ug/L

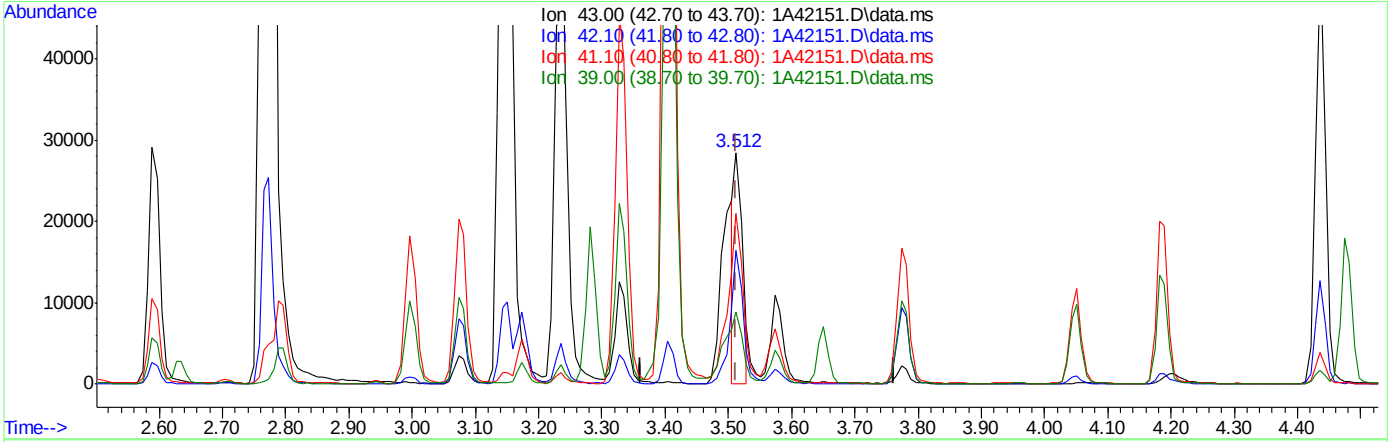
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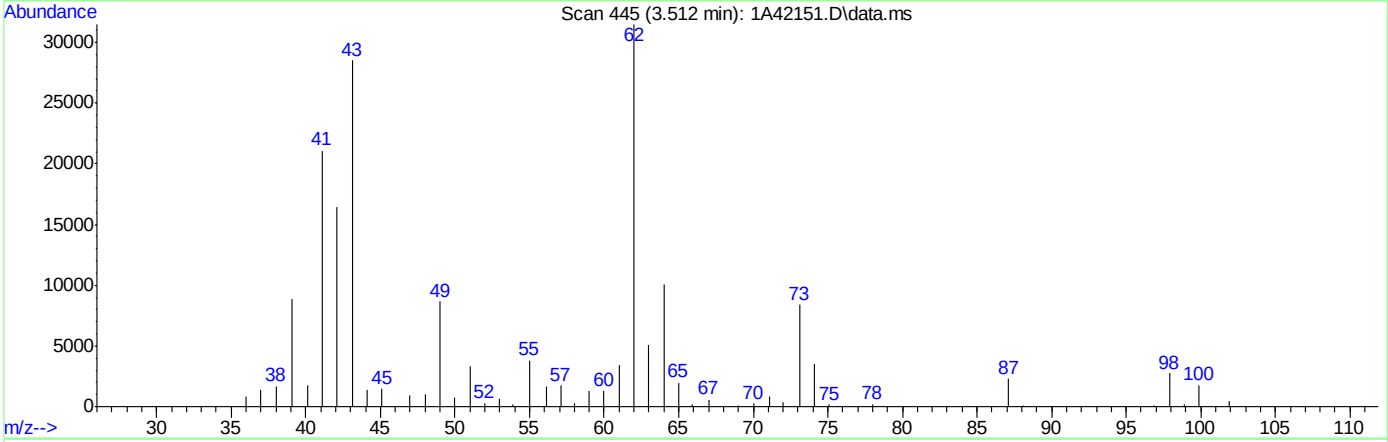
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	57.63
41.10	71.70	70.54
39.00	29.20	29.69

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42151.D
Acq On : 14 Dec 2022 10:32 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1698,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 10:48:39 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42151.D\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 365.89ug/L m

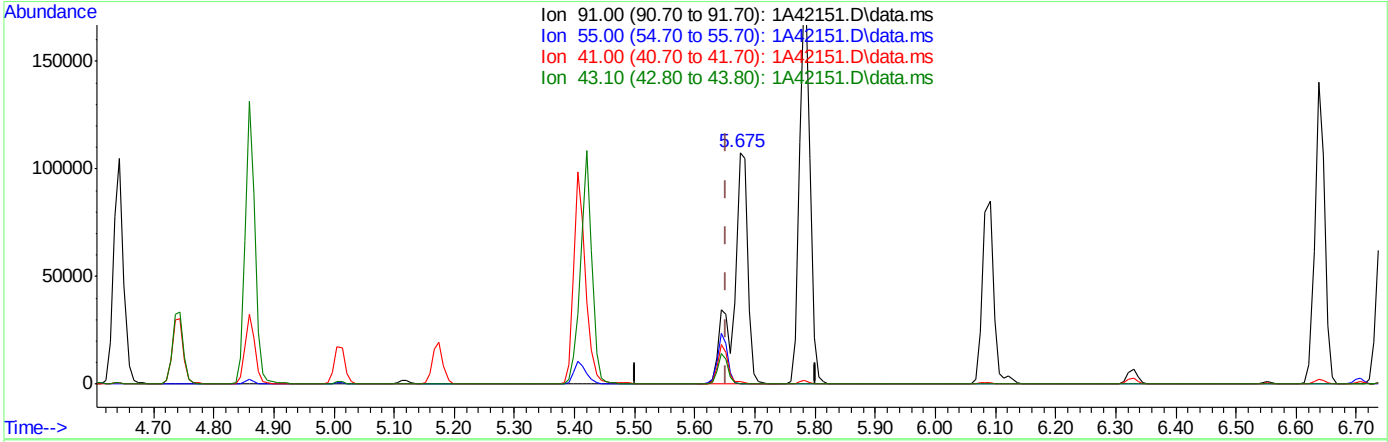
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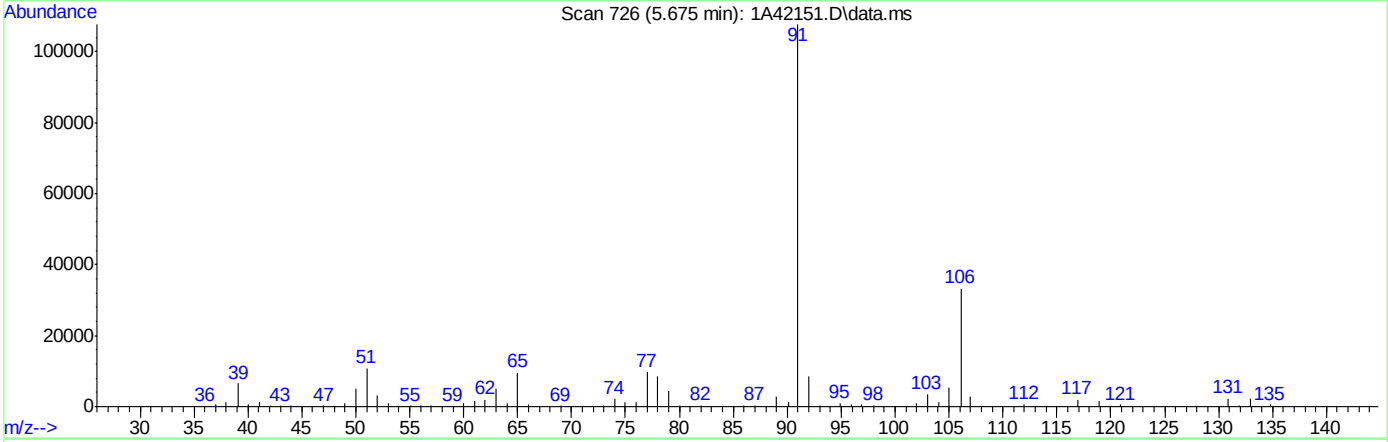
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	57.63
41.10	71.70	73.88
39.00	29.20	31.25

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42151.D
Acq On : 14 Dec 2022 10:32 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1698,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 10:48:39 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42151.D\data.ms

(76) 1-Chlorohexane

5.675min (+0.023) 91.33ug/L

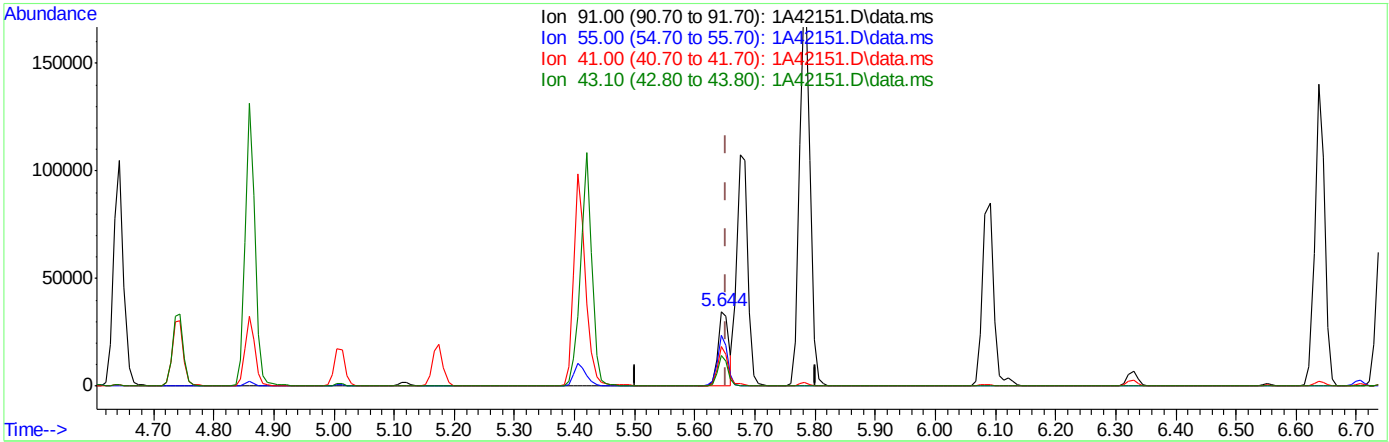
response 178285

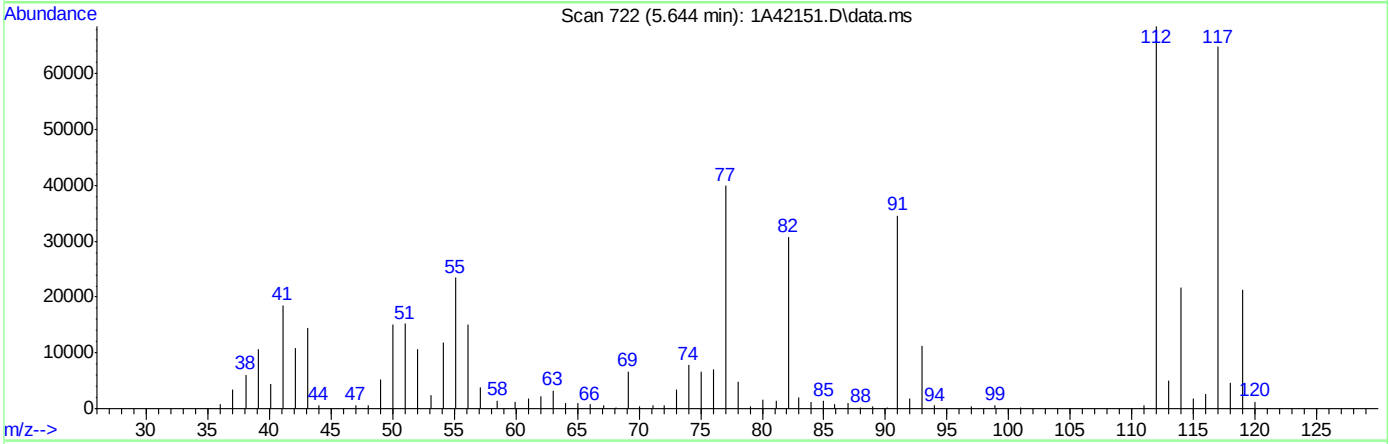
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	0.26#
41.00	48.10	1.01#
43.10	37.30	0.26#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42151.D
Acq On : 14 Dec 2022 10:32 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1698,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 10:48:39 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42151.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.008) 22.43ug/L m

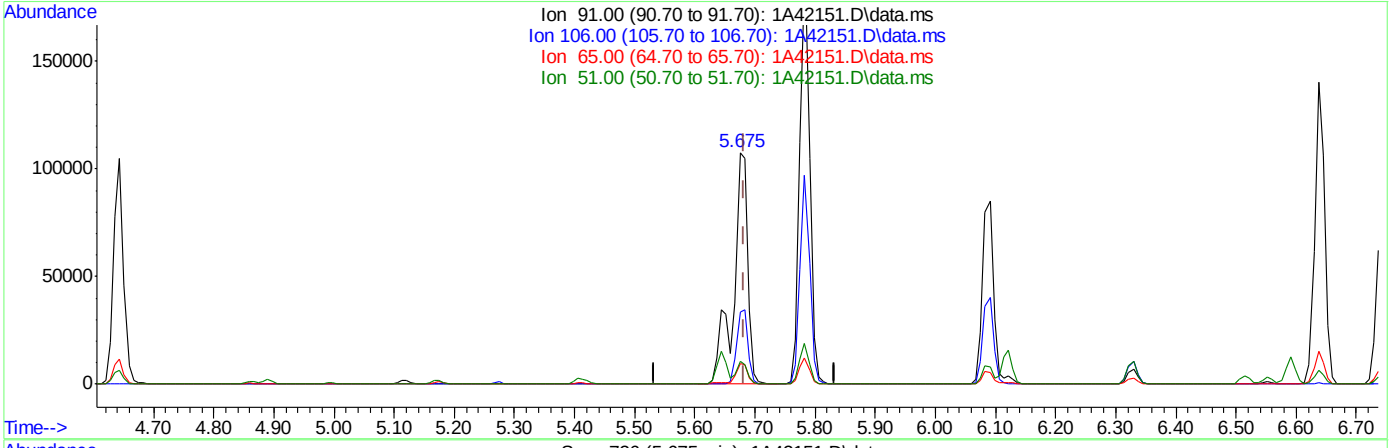
response 43778

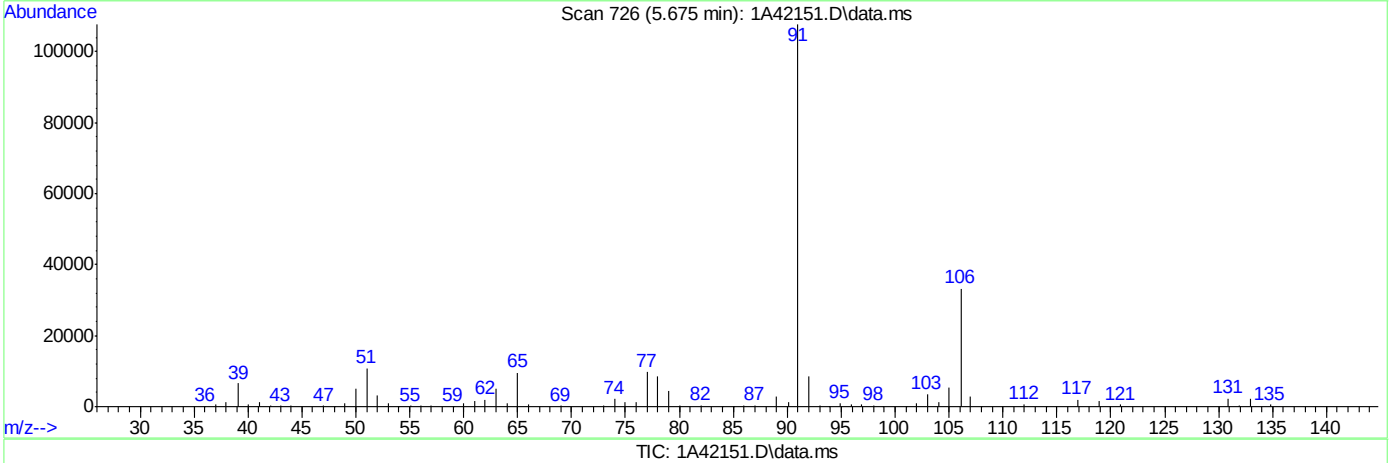
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	67.82
41.00	48.10	53.75
43.10	37.30	41.59

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42151.D
Acq On : 14 Dec 2022 10:32 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1698,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 10:48:39 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42151.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.008) 27.92ug/L

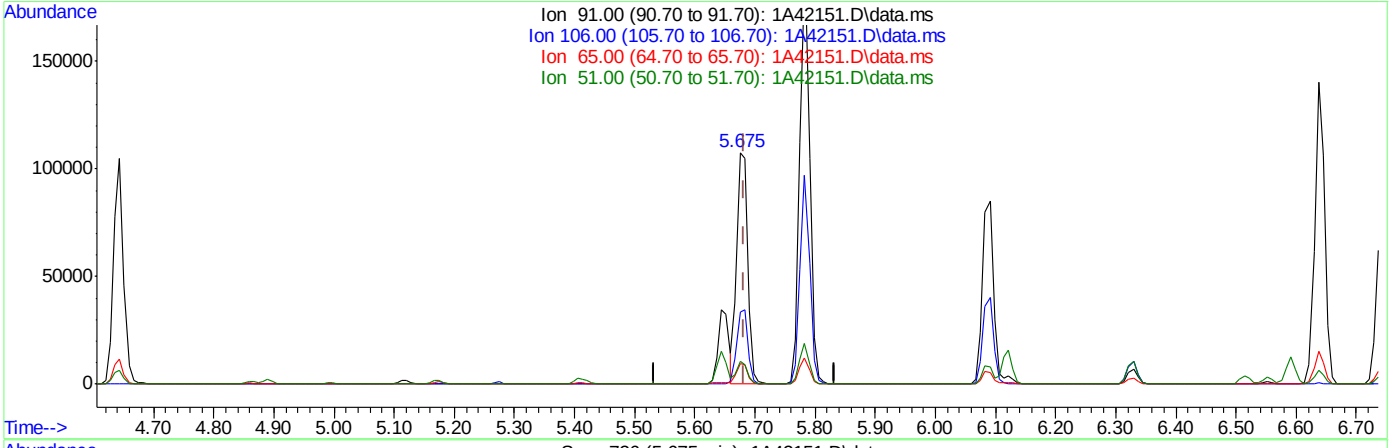
response 178285

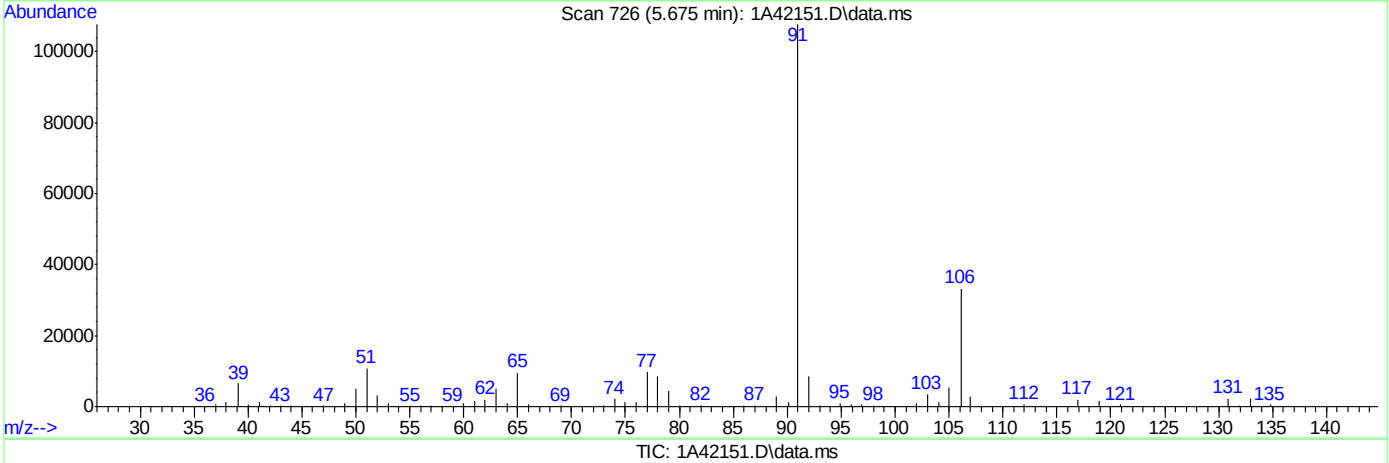
Ion	Exp%	Act%
91.00	100	100
106.00	32.70	30.94
65.00	8.50	8.88
51.00	9.00	10.02

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42151.D
Acq On : 14 Dec 2022 10:32 am
Operator : joannel
Sample : BS
Misc : MS52217,V1A1698,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 10:48:39 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42151.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.008) 21.06ug/L m

response 134457

Ion	Exp%	Act%
91.00	100	100
106.00	32.70	30.94
65.00	8.50	8.88
51.00	9.00	10.02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753617.d
Acq On : 15 Dec 2022 10:07 am
Operator : kylieg
Sample : BS Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:04:44 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.335	96	350963	50.00	ug/L	0.00
62) Chlorobenzene-d5	11.512	117	271250	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.877	152	140569	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.451	113	99184	52.95	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.90%			
49) 1,2-Dichloroethane-d4	8.031	65	118133	54.65	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.30%			
63) Toluene-d8	9.945	98	354053	46.29	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 92.58%			
86) 4-Bromofluorobenzene	12.725	174	115024	49.72	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.385	85	51674	34.04	ug/L	99
3) Chloromethane	2.702	50	59184	30.95	ug/L	93
4) Vinyl Chloride	2.855	62	51091	29.15	ug/L	99
5) 1,3-Butadiene	2.897	39	51291	36.29	ug/L	94
6) Bromomethane	3.385	94	25817	38.75	ug/L	97
7) Chloroethane	3.580	64	38304	43.49	ug/L	98
8) Trichlorofluoromethane	3.812	101	72098	35.06	ug/L	99
9) Ethyl Ether	4.294	59	29004	23.42	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.550	67	47275	28.19	ug/L	98
11) 1,1-Dichloroethene	4.556	61	64060	28.79	ug/L	96
12) Ethanol	4.519	45	20294	314.09	ug/L	82
13) Freon 113	4.617	101	36153	31.23	ug/L	95
14) Carbon Disulfide	4.604	76	102299	26.84	ug/L	97
15) Iodomethane	4.751	142	49212	50.45	ug/L	99
16) Acrolein	5.013	56	49516	90.20	ug/L	99
17) Allyl chloride	5.196	41	57580	27.52	ug/L	95
18) Methylene Chloride	5.330	49	59589	25.91	ug/L	96
19) Acetone	5.385	43	119396	105.99	ug/L	98
20) Methyl acetate	5.549	43	235197	113.59	ug/L	99
21) trans-1,2-Dichloroethene	5.555	61	56252	26.87	ug/L	98
22) Hexane	5.659	56	34103	43.78	ug/L	96
23) Methyl Tert Butyl Ether	5.683	73	96579	25.69	ug/L	85
24) Tert butyl alcohol	5.793	59	134341	203.42	ug/L	96
25) Acetonitrile	5.958	41	82534	182.89	ug/L	99
26) Di-isopropyl ether	6.147	45	120175	26.04	ug/L	96
27) Chloroprene	6.281	53	57417	30.40	ug/L	99
28) 1,1-Dichloroethane	6.293	63	72717	27.82	ug/L	97
29) Acrylonitrile	6.342	53	111224	110.38	ug/L	99
30) ETBE	6.574	59	106602	24.56	ug/L	96
31) Vinyl acetate	6.580	43	426371	138.79	ug/L	99
32) cis-1,2-Dichloroethene	6.945	96	35719	27.50	ug/L	97
33) 2,2-Dichloropropane	7.061	77	53982	25.57	ug/L	96
34) Bromochloromethane	7.177	128	16821	29.66	ug/L	95
35) Cyclohexane	7.201	56	68282	32.42	ug/L	95
36) Chloroform	7.250	83	65455	26.95	ug/L	99
37) Ethyl acetate	7.354	43	325445	119.78	ug/L	99
38) Tetrahydrofuran	7.439	42	28588	22.56	ug/L	95
40) Carbon Tetrachloride	7.427	117	53750	29.74	ug/L	99
41) 1,1,1-Trichloroethane	7.494	97	60450	27.98	ug/L	97
42) 2-Butanone	7.567	43	182074	107.23	ug/L	96
43) 1,1-Dichloropropene	7.634	75	49408	27.14	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753617.d
Acq On : 15 Dec 2022 10:07 am
Operator : kylieg
Sample : BS Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:04:44 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) tert-Butyl Formate	7.726	59	133921	95.36	ug/L	98
45) Propionitrile	7.884	54	106862	198.79	ug/L	94
46) Methacrylonitrile	7.909	41	373831	228.62	ug/L	98
47) Benzene	7.903	78	136202	25.90	ug/L	95
48) TAME	8.006	73	94017	26.78	ug/L	98
50) Isobutyl alcohol	8.079	42	61897	389.39	ug/L	97
51) 1,2-Dichloroethane	8.110	62	54174	26.71	ug/L	99
52) Tert Amyl Alcohol	8.189	59	111820	196.44	ug/L	97
53) Trichloroethene	8.531	95	37095	26.24	ug/L	93
54) Methylcyclohexane	8.537	83	52801	33.17	ug/L	93
55) Dibromomethane	8.976	93	22559	26.99	ug/L	97
56) 1,2-Dichloropropane	9.061	63	35069	24.59	ug/L	97
57) Bromodichloromethane	9.122	83	46204	27.42	ug/L	98
58) Methyl methacrylate	9.250	41	39370	25.65	ug/L	98
59) 1,4-Dioxane	9.317	88	13064	307.60	ug/L	98
60) 2-Chloroethyl vinyl ether	9.658	63	144656	133.00	ug/L	96
61) cis-1,3-Dichloropropene	9.756	75	51072	26.23	ug/L	95
64) Toluene	10.000	91	139328	23.41	ug/L	96
65) 2-Nitropropane	10.201	41	78815	129.42	ug/L	95
66) 4-Methyl-2-pentanone	10.335	43	365579	108.65	ug/L	97
67) trans-1,3-Dichloropropene	10.402	75	48107	25.79	ug/L	96
68) Tetrachloroethene	10.408	166	41523	25.77	ug/L	97
69) Ethyl methacrylate	10.524	69	39737	20.98	ug/L	99
70) 1,1,2-Trichloroethane	10.561	83	26912	23.59	ug/L	96
71) Dibromochloromethane	10.762	129	35005	24.45	ug/L	98
72) 1,3-Dichloropropane	10.841	76	48275	22.02	ug/L	97
73) 1,2-Dibromoethane	11.018	107	33031	22.90	ug/L	99
74) 3,3-dimethyl-1-butanol	11.121	57	569576	822.83	ug/L	100
75) 2-hexanone	11.164	43	295849	98.87	ug/L	97
76) 1-Chlorohexane	11.469	91	42561	24.30	ug/L	97
77) Ethylbenzene	11.530	91	156967	23.67	ug/L	99
78) Chlorobenzene	11.530	112	89146	23.92	ug/L	98
79) 1,1,1,2-Tetrachloroethane	11.579	131	33385	24.63	ug/L	99
80) m,p-Xylene	11.670	91	233667	47.77	ug/L	99
81) o-Xylene	12.109	91	113561	24.08	ug/L	100
82) Styrene	12.164	104	80828	22.83	ug/L	98
83) Bromoform	12.219	173	27973	25.75	ug/L	98
84) Isopropylbenzene	12.420	105	140900	24.47	ug/L	99
87) cis-1,4-Dichloro-2-butene	12.767	53	16652	20.72	ug/L	96
88) n-Propylbenzene	12.835	91	170372	22.80	ug/L	98
89) Bromobenzene	12.853	156	35154	21.70	ug/L	98
90) 1,1,2,2-Tetrachloroethane	12.896	83	54102	21.65	ug/L	98
91) 1,3,5-Trimethylbenzene	13.017	105	114065	22.75	ug/L	96
92) 2-Chlorotoluene	13.024	91	113167	22.92	ug/L	97
93) trans-1,4-Dichloro-2-B...	13.078	53	15617	20.23	ug/L	93
94) 1,2,3-Trichloropropane	13.054	110	15758	20.14	ug/L	94
95) Cyclohexanone	13.115	55	17258	64.55	ug/L	93
96) 4-Chlorotoluene	13.188	91	97744	22.50	ug/L	97
97) tert-Butylbenzene	13.359	91	63318	22.68	ug/L	97
98) 1,2,4-Trimethylbenzene	13.432	105	113615	23.72	ug/L	98
99) Pentachloroethane	13.408	167	21301	23.98	ug/L	94
100) sec-Butylbenzene	13.542	105	142766	24.66	ug/L	98
101) 4-Isopropyltoluene	13.676	119	119940	24.98	ug/L	99
102) 1,3-Dichlorobenzene	13.810	146	64329	23.25	ug/L	98
103) 1,2,3-Trimethylbenzene	13.889	105	119406	24.34	ug/L	98
104) 1,4-Dichlorobenzene	13.895	146	70624	22.98	ug/L	97
105) n-Butylbenzene	14.121	92	62186	22.71	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753617.d
Acq On : 15 Dec 2022 10:07 am
Operator : kylieg
Sample : BS Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:04:44 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

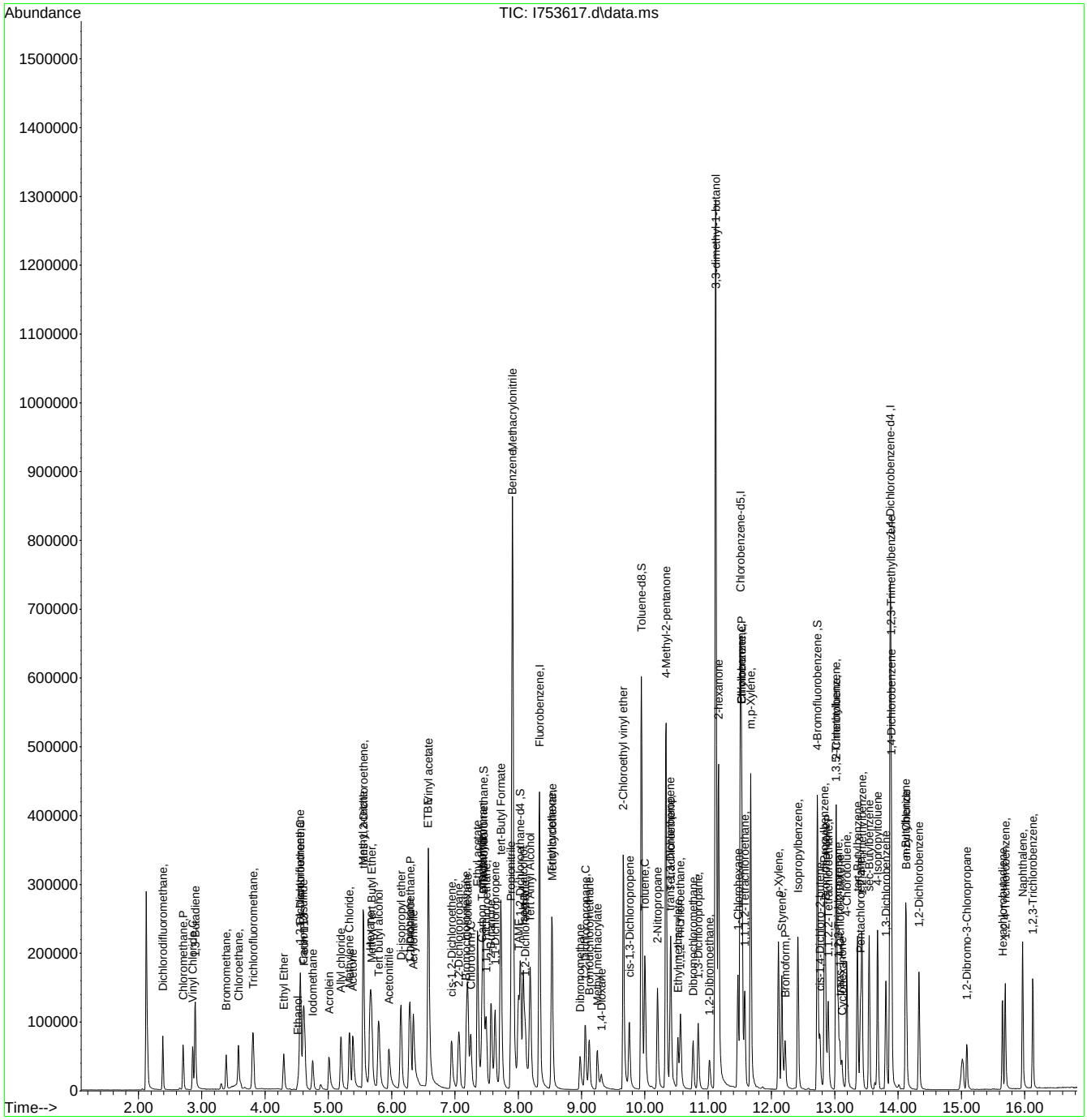
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) Benzyl Chloride	14.127	126	16286	20.04	ug/L #	86
107) 1,2-Dichlorobenzene	14.328	146	61771	22.96	ug/L	98
108) 1,2-Dibromo-3-Chloropr...	15.084	75	13926	19.73	ug/L	98
109) Hexachlorobutadiene	15.651	225	20324	25.87	ug/L	98
110) 1,2,4-Trichlorobenzene	15.694	180	40286	23.66	ug/L	95
111) Naphthalene	15.968	128	136033	23.05	ug/L	100
112) 1,2,3-Trichlorobenzene	16.127	180	40352	24.02	ug/L	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753617.d
Acq On : 15 Dec 2022 10:07 am
Operator : kylieg
Sample : BS Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:04:44 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira
12/14/22 01:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96264.D
Acq On : 12 Dec 2022 8:39 pm
Operator : courtnef
Sample : FC1074-1MS, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:04:42 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.715	96	849228	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.640	117	584924	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.329	152	263029	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.260	113	194350	54.88	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.76%			
49) 1,2-Dichloroethane-d4	3.548	65	281347	55.13	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 110.26%			
63) Toluene-d8	4.641	98	811449	47.28	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 94.56%			
86) 4-Bromofluorobenzene	6.493	174	208848	51.98	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.111	85	81986	27.29	ug/L	96
3) Chloromethane	1.236	50	86014	20.52	ug/L	99
4) 1,3-butadiene	1.310	39	101556	25.02	ug/L	98
5) Vinyl Chloride	1.294	62	79512	21.19	ug/L	98
6) Bromomethane	1.498	94	18358	43.40	ug/L	96
7) Chloroethane	1.571	64	35208	30.48	ug/L	96
8) Trichlorofluoromethane	1.665	101	112761	27.10	ug/L	99
9) Ethyl Ether	1.869	59	68638	20.22	ug/L	93
10) Ethanol	1.958	45	39449	336.95	ug/L	97
11) 1,2-Dichlorotrifluoroe...	1.969	67	96520	23.73	ug/L	98
12) 1,1-Dichloroethene	1.974	61	136260	28.04	ug/L	96
13) Freon 113	2.005	101	78716	28.23	ug/L	95
14) Carbon Disulfide	1.989	76	205791	21.98	ug/L	97
15) Iodomethane	2.052	142	25678	57.29	ug/L	96
16) Acrolein	2.146	56	103946	96.85	ug/L	98
17) Allyl chloride	2.241	41	119347	30.24	ug/L	97
18) Methylene Chloride	2.293	49	105640	21.52	ug/L	99
19) Acetone	2.309	43	240968	108.67	ug/L	98
20) Methyl acetate	2.392	43	556405	110.82	ug/L	95
21) trans-1,2-Dichloroethene	2.392	61	125742	27.00	ug/L	96
22) Hexane	2.460	56	64997	25.34	ug/L	98
23) Methyl Tert Butyl Ether	2.465	73	287414	26.15	ug/L	96
24) Tert Butyl Alcohol	2.502	59	285792	252.97	ug/L	97
25) Acetonitrile	2.544	41	212436m	294.66	ug/L	
26) Di-isopropyl ether	2.680	45	261758	23.01	ug/L	99
27) Chloroprene	2.722	53	398946	23.41	ug/L	97
28) 1,1-Dichloroethane	2.722	63	166010	27.67	ug/L	99
29) Acrylonitrile	2.722	52	253992	112.95	ug/L	97
30) ETBE	2.879	59	263956	23.80	ug/L	99
31) Vinyl acetate	2.852	43	1162418	135.32	ug/L	100
32) cis-1,2-Dichloroethene	3.015	96	91308	27.62	ug/L	97
33) 2,2-Dichloropropane	3.077	77	124686	25.07	ug/L	97
34) Bromochloromethane	3.119	128	35796	26.81	ug/L	98
35) Cyclohexane	3.156	56	143184	26.42	ug/L	96
36) Chloroform	3.161	83	164168	27.78	ug/L	98
37) Ethyl acetate	3.224	43	742257	121.45	ug/L	99
38) Tetrahydrofuran	3.255	42	51071	21.49	ug/L	93
40) Carbon Tetrachloride	3.260	117	125486m	35.16	ug/L	
41) 1,1,1-Trichloroethane	3.287	97	154380	31.36	ug/L	97
42) 2-Butanone	3.313	43	410769	113.94	ug/L	99
43) 1,1-Dichloropropene	3.360	75	123106	27.18	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96264.D
Acq On : 12 Dec 2022 8:39 pm
Operator : courtnef
Sample : FC1074-1MS, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:04:42 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl formate	3.402	59	171486	66.23	ug/L		94
45) Propionitrile	3.454	54	225620	230.47	ug/L		98
46) Methacrylonitrile	3.475	41	781433	222.33	ug/L		99
47) Benzene	3.491	78	355825	24.55	ug/L		96
48) TAME	3.564	73	271668	26.33	ug/L		97
50) Isobutyl alcohol	3.590	43	163880m	274.10	ug/L		
51) 1,2-Dichloroethane	3.585	62	128940	26.63	ug/L		95
52) Tert Amyl Alcohol	3.647	59	203455	225.38	ug/L		96
53) Trichloroethene	3.820	95	89354	26.14	ug/L		95
54) Methylcyclohexane	3.841	83	138798	28.52	ug/L		98
55) Dibromomethane	4.045	93	49546	25.61	ug/L		92
56) 1,2-Dichloropropane	4.102	63	81424	23.91	ug/L		96
57) Bromodichloromethane	4.139	83	110506	30.45	ug/L		98
58) Methyl methacrylate	4.233	41	91967	23.41	ug/L		90
59) 1,4-Dioxane	4.259	88	40056	531.08	ug/L		90
61) cis-1,3-Dichloropropene	4.516	75	124650	26.02	ug/L		95
64) Toluene	4.678	91	372051	24.10	ug/L		98
65) 2-Nitropropane	4.772	41	190282	121.58	ug/L		97
66) 4-Methyl-2-pentanone	4.887	43	724694	111.22	ug/L		99
67) trans-1,3-Dichloropropene	4.913	75	126932	28.26	ug/L		95
68) Tetrachloroethene	4.934	166	81848	27.13	ug/L		96
69) Ethyl methacrylate	5.028	69	110291	22.19	ug/L		88
70) 1,1,2-Trichloroethane	5.013	83	65068	24.57	ug/L		97
71) Dibromochloromethane	5.138	129	70104	28.56	ug/L		96
72) 1,3-Dichloropropane	5.190	76	136779	23.24	ug/L		98
73) 1,2-Dibromoethane	5.290	107	76558	25.60	ug/L		98
74) 3,3-dimethyl-1-butanol	5.426	57	1083217	1087.50	ug/L		98
75) 2-hexanone	5.426	43	767696	106.73	ug/L		99
76) 1-Chlorohexane	5.645	91	119033m	25.30	ug/L		
77) Ethylbenzene	5.677	91	397689	24.60	ug/L		98
78) Chlorobenzene	5.651	112	209618	24.08	ug/L		96
79) 1,1,1,2-Tetrachloroethane	5.692	131	75817	29.07	ug/L		96
80) m,p-Xylene	5.776	91	616338	49.27	ug/L		98
81) o-Xylene	6.074	91	297834	24.11	ug/L		99
82) Styrene	6.106	104	211649	24.42	ug/L		98
83) Bromoform	6.116	173	40182	31.62	ug/L		93
84) Isopropylbenzene	6.304	105	346034	25.33	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.524	53	31300	20.44	ug/L		90
88) n-Propylbenzene	6.602	91	424988	23.58	ug/L		99
89) Bromobenzene	6.566	156	76366	23.52	ug/L		98
90) 1,1,2,2-Tetrachloroethane	6.623	83	120559	23.81	ug/L		99
91) 1,3,5-Trimethylbenzene	6.754	105	277793	23.15	ug/L		99
92) 2-Chlorotoluene	6.707	91	251477	23.47	ug/L		99
93) trans-1,4-Dichloro-2-B...	6.754	53	38597	21.23	ug/L		98
94) 1,2,3-Trichloropropane	6.723	110	38879	21.84	ug/L		95
95) Cyclohexanone	6.749	55	35935	103.58	ug/L		91
96) 4-Chlorotoluene	6.833	91	264824	23.60	ug/L		100
97) tert-Butylbenzene	6.989	91	157940	23.25	ug/L		99
99) 1,2,4-Trimethylbenzene	7.042	105	258504	22.15	ug/L		98
100) Pentachloroethane	6.995	167	45834	32.38	ug/L	#	41
101) sec-Butylbenzene	7.125	105	323698	24.68	ug/L		99
102) 4-Isopropyltoluene	7.241	119	267897	24.44	ug/L		98
103) 1,3-Dichlorobenzene	7.272	146	149820	25.17	ug/L		99
104) 1,2,3-Trimethylbenzene	7.371	105	273552	23.65	ug/L		98
105) 1,4-Dichlorobenzene	7.340	146	150539	24.42	ug/L		99
106) n-Butylbenzene	7.554	92	121538	21.30	ug/L		96
107) Benzyl Chloride	7.518	126	28802	20.60	ug/L	#	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96264.D
Acq On : 12 Dec 2022 8:39 pm
Operator : courtnef
Sample : FC1074-1MS, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:04:42 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

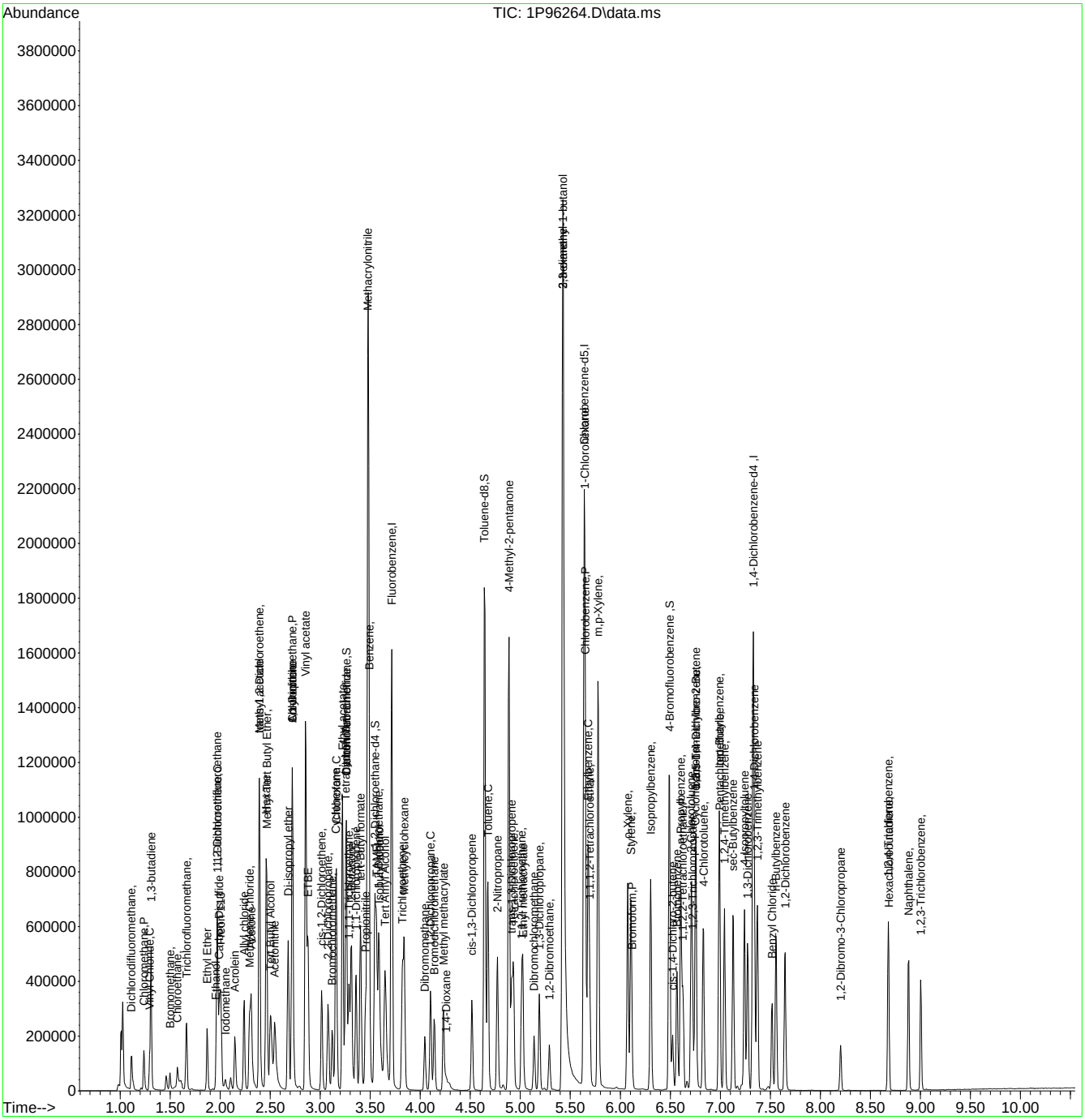
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dichlorobenzene	7.648	146	141016	25.26	ug/L	99
109) 1,2-Dibromo-3-Chloropr...	8.203	75	28678	25.41	ug/L	96
110) Hexachlorobutadiene	8.684	225	32484	31.59	ug/L	95
111) 1,2,4-Trichlorobenzene	8.679	180	68081	22.40	ug/L	99
112) Naphthalene	8.883	128	236215	17.64	ug/L	98
113) 1,2,3-Trichlorobenzene	9.003	180	70616	25.12	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96264.D
Acq On : 12 Dec 2022 8:39 pm
Operator : courtnef
Sample : FC1074-1MS, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:04:42 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



Manual Integration Approval Summary

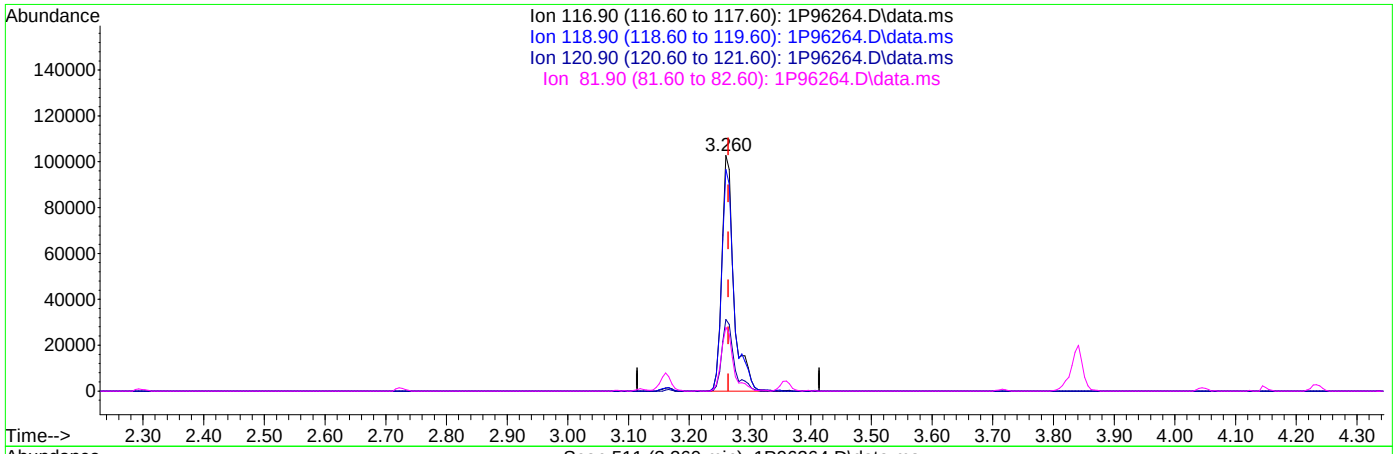
Sample Number: FC1074-1MS
Lab FileID: 1P96264.D
Injection Time: 12/12/22 20:39
Method: SW846 8260D
Analyst approved: 12/12/22 23:46 Jennifer Fereira
Supervisor approved: 12/14/22 01:34 Jennifer Fereira

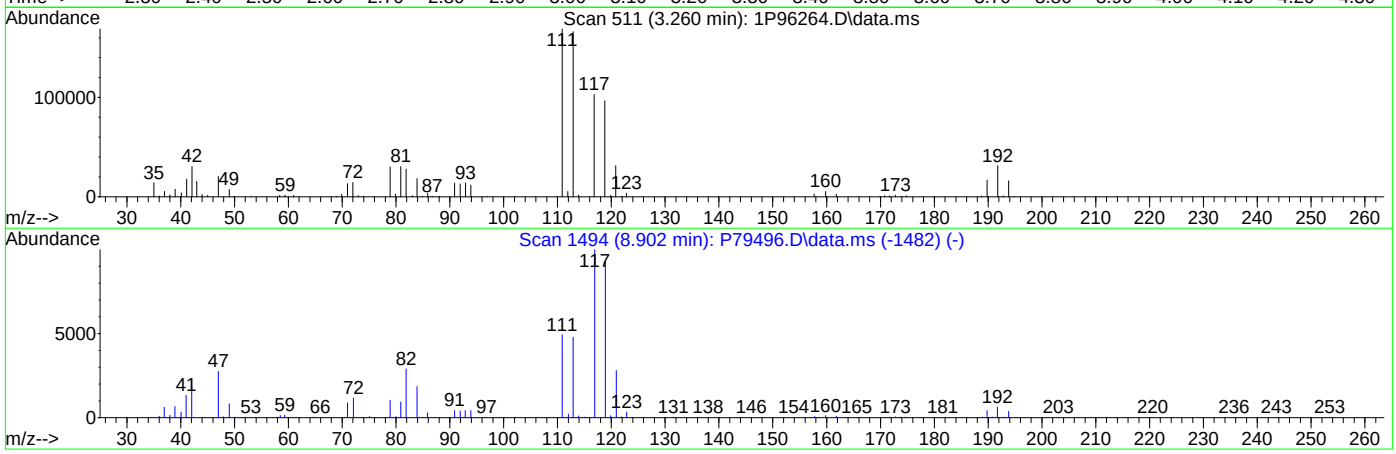
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.54	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96264.D
Acq On : 12 Dec 2022 8:39 pm
Operator : courtnef
Sample : FC1074-1MS, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:06:33 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96264.D\data.ms

(40) Carbon Tetrachloride ( )

3.260min (-0.004) 39.52ug/L

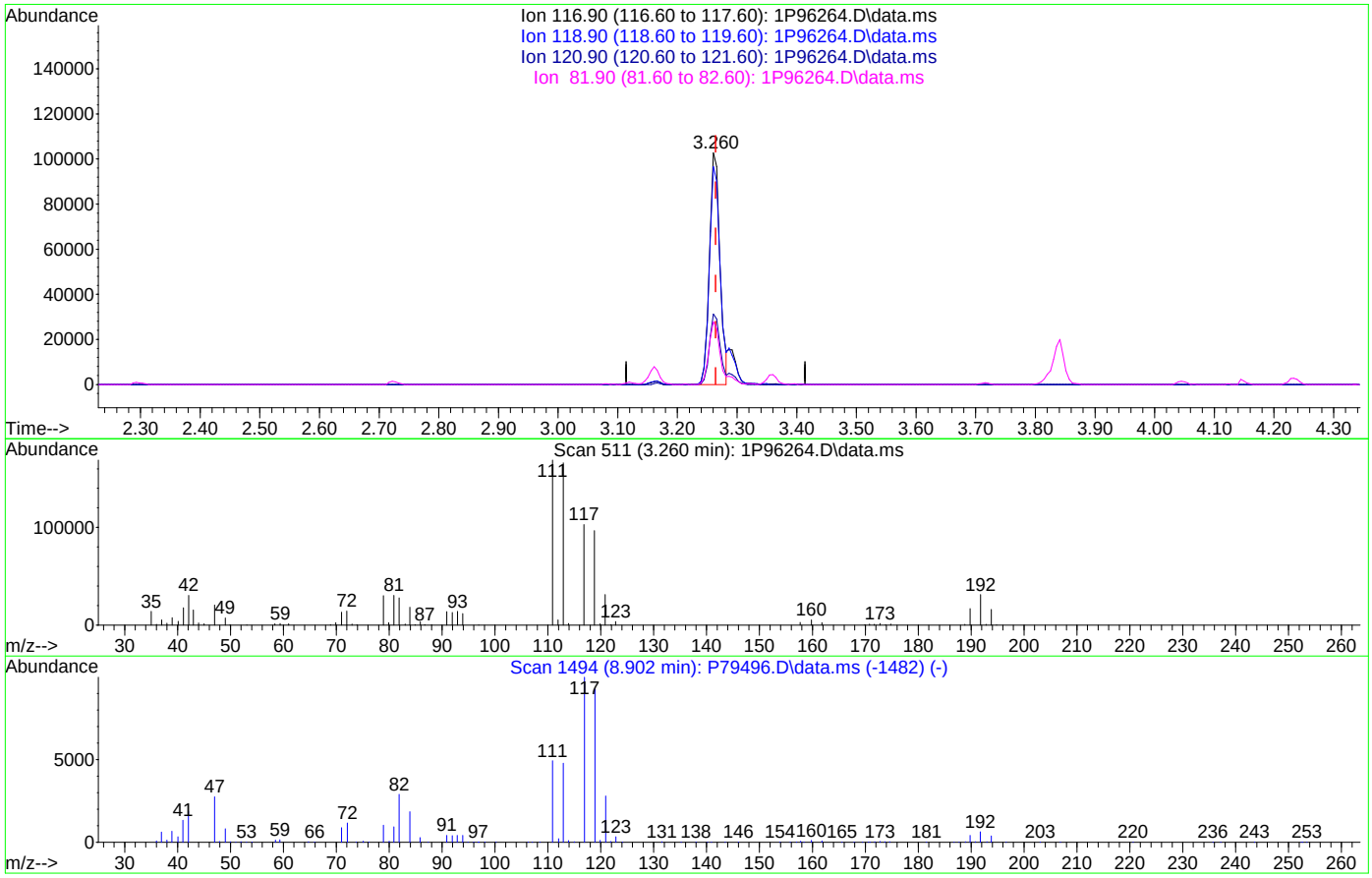
response 141037

Ion	Exp%	Act%
116.90	100	100
118.90	97.80	94.05
120.90	31.00	30.35
81.90	30.20	27.10

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96264.D
Acq On : 12 Dec 2022 8:39 pm
Operator : courtnef
Sample : FC1074-1MS, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:06:33 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



TIC: 1P96264.D\data.ms

(40) Carbon Tetrachloride ( )

3.260min (-0.004) 35.16ug/L m

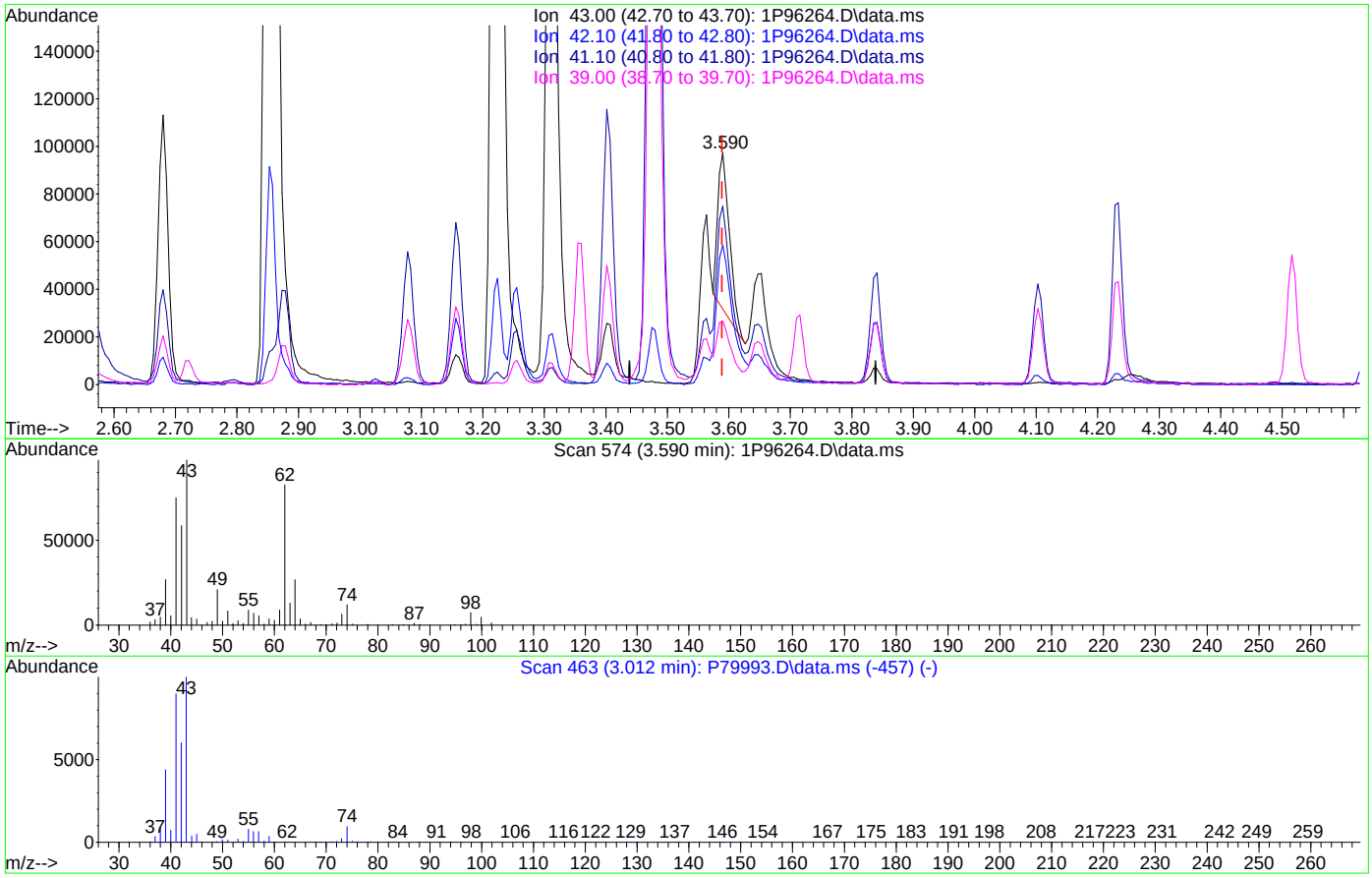
response 125486

Ion	Exp%	Act%
116.90	100	100
118.90	97.80	94.05
120.90	31.00	30.35
81.90	30.20	27.10

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96264.D
Acq On : 12 Dec 2022 8:39 pm
Operator : courtnef
Sample : FC1074-1MS, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:06:33 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



TIC: 1P96264.D\data.ms

(50) Isobutyl alcohol

3.590min (+0.001) 138.37ug/L

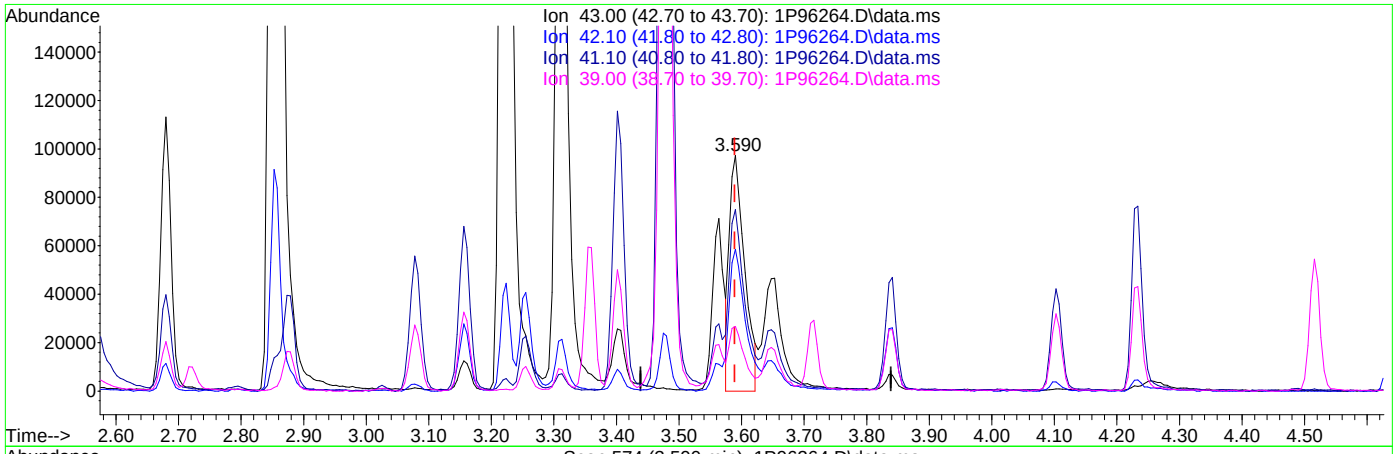
response 82730

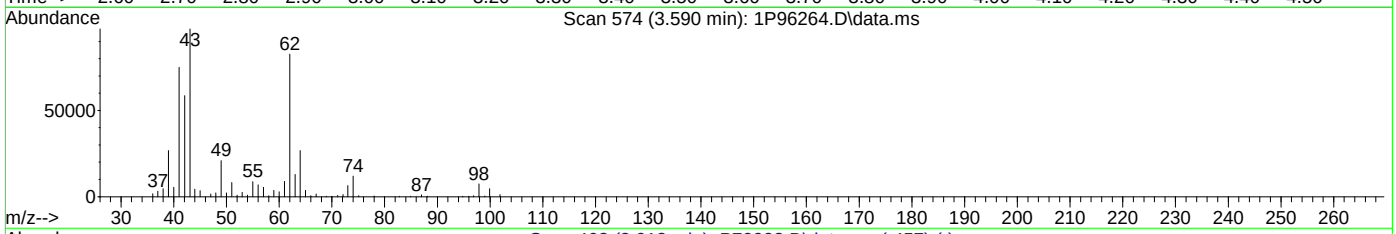
Ion	Exp%	Act%
43.00	100	100
42.10	59.60	61.04
41.10	71.40	77.29
39.00	26.20	26.36

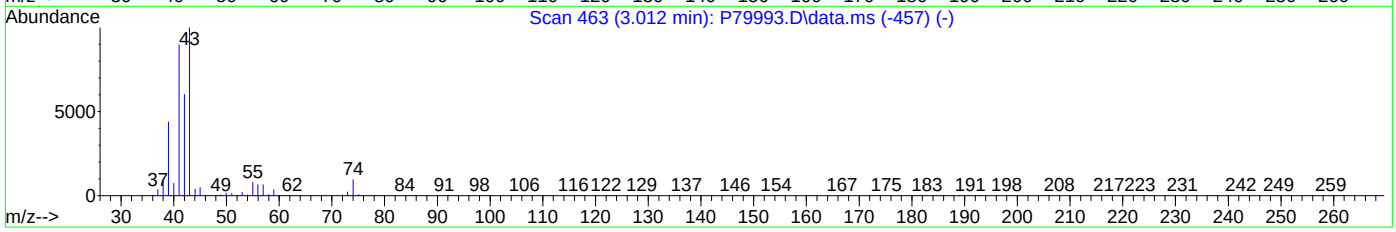
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96264.D
Acq On : 12 Dec 2022 8:39 pm
Operator : courtnef
Sample : FC1074-1MS, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:06:33 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration







TIC: 1P96264.D\data.ms

(50) Isobutyl alcohol

3.590min (+0.001) 274.10ug/L m

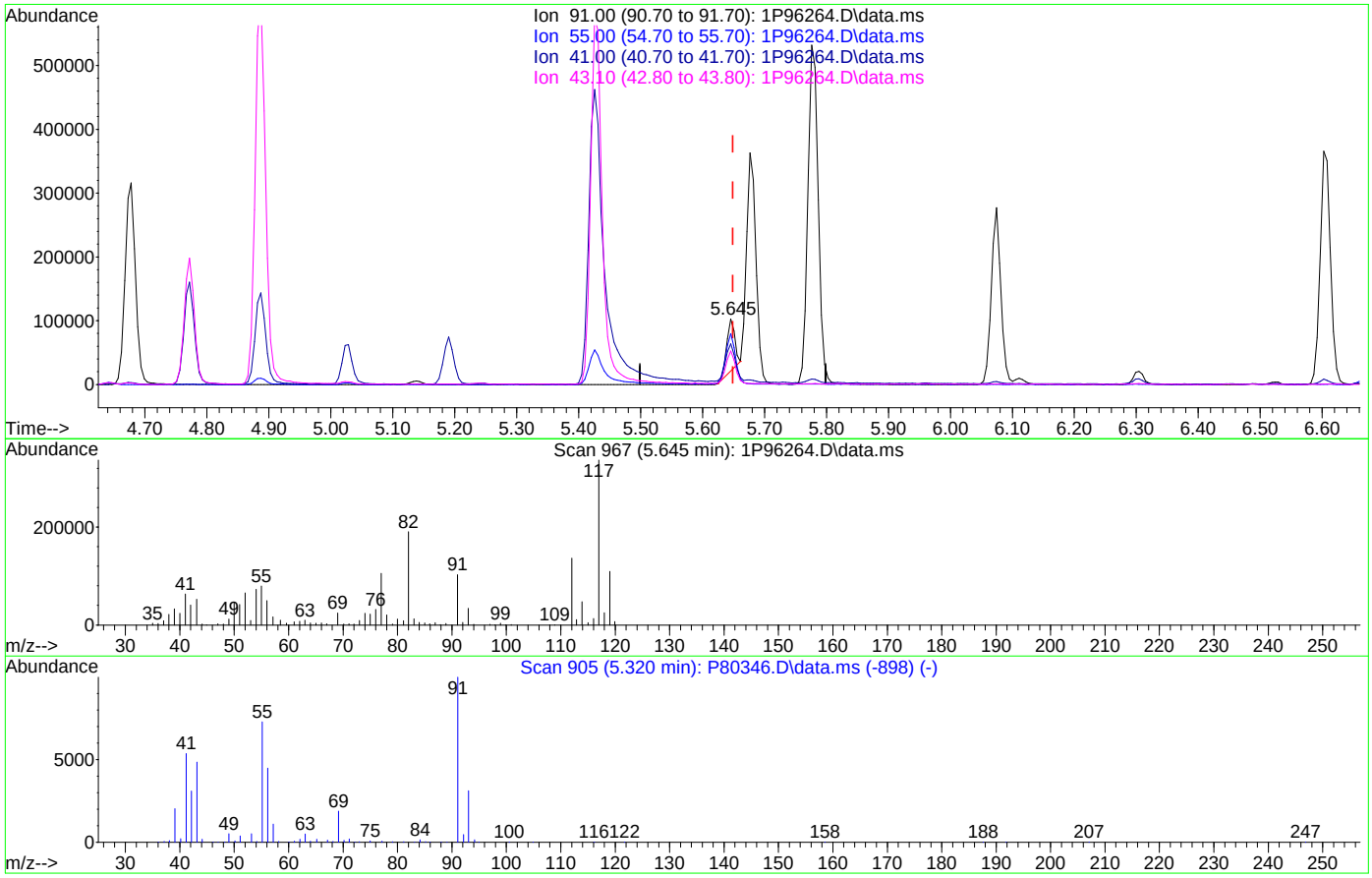
response 163880

Ion	Exp%	Act%
43.00	100	100
42.10	59.60	60.12
41.10	71.40	77.03
39.00	26.20	27.46

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96264.D
Acq On : 12 Dec 2022 8:39 pm
Operator : courtnef
Sample : FC1074-1MS, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:06:33 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



TIC: 1P96264.D\data.ms

(76) 1-Chlorohexane

5.645min (-0.004) 16.61ug/L

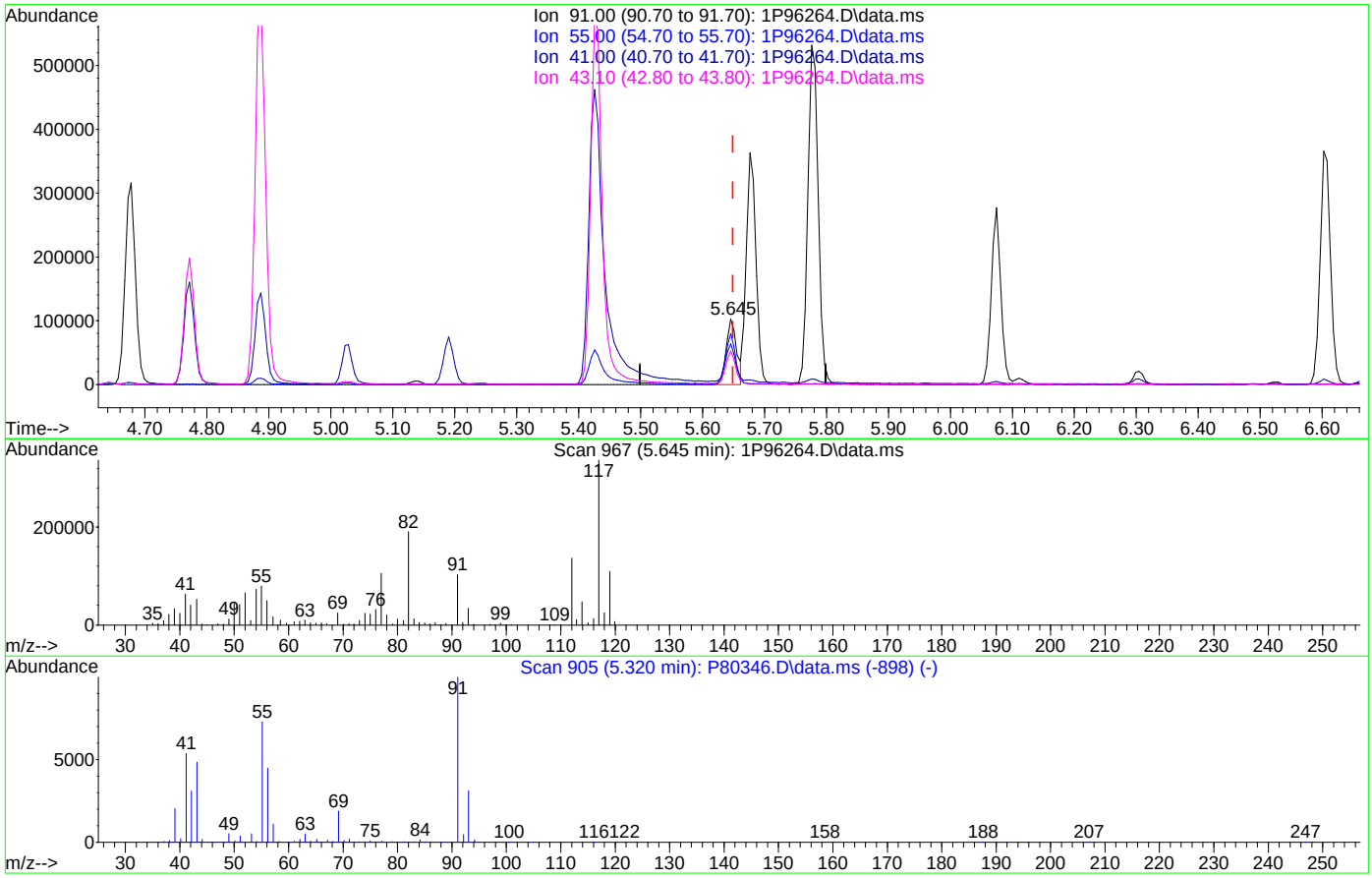
response 78090

Ion	Exp%	Act%
91.00	100	100
55.00	73.20	75.77
41.00	62.10	56.75
43.10	50.00	49.68

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96264.D
Acq On : 12 Dec 2022 8:39 pm
Operator : courtnef
Sample : FC1074-1MS, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:06:33 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



TIC: 1P96264.D\data.ms

(76) 1-Chlorohexane

5.645min (-0.004) 25.30ug/L m

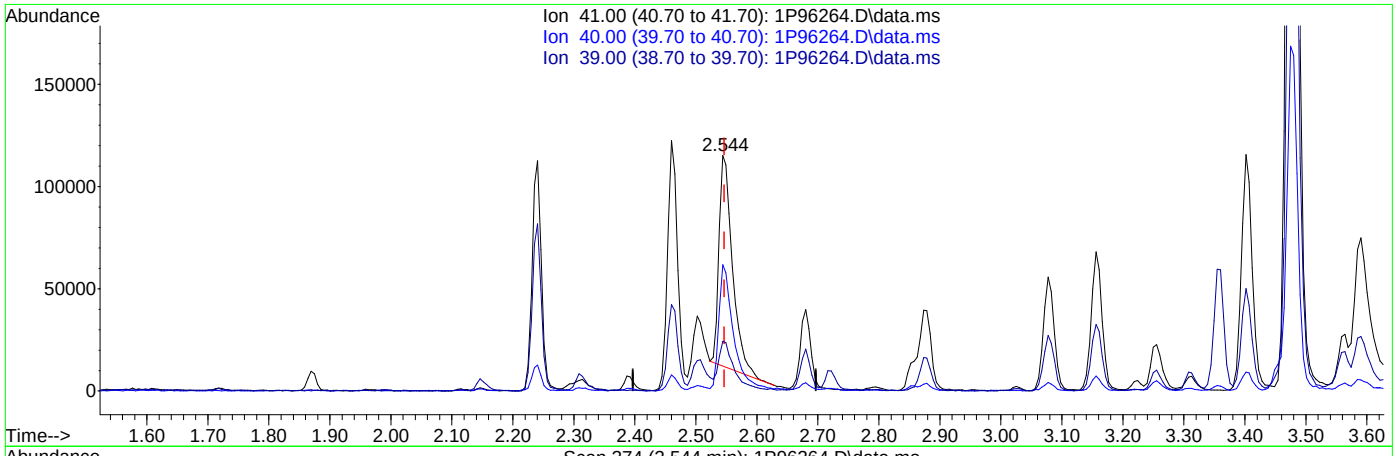
response 119033

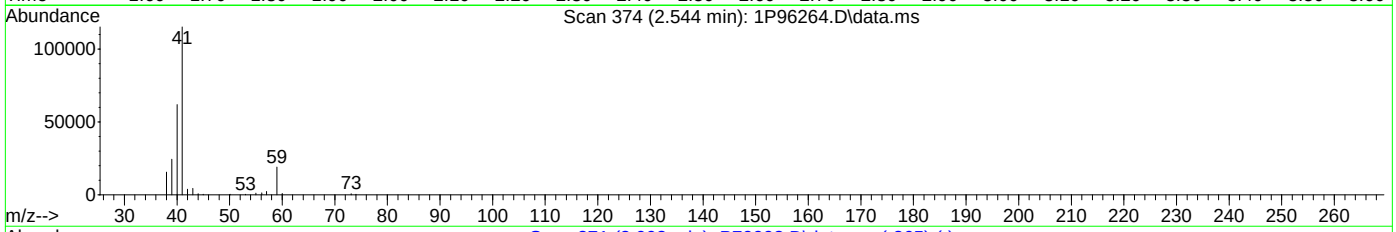
Ion	Exp%	Act%
91.00	100	100
55.00	73.20	77.64
41.00	62.10	61.92
43.10	50.00	51.12

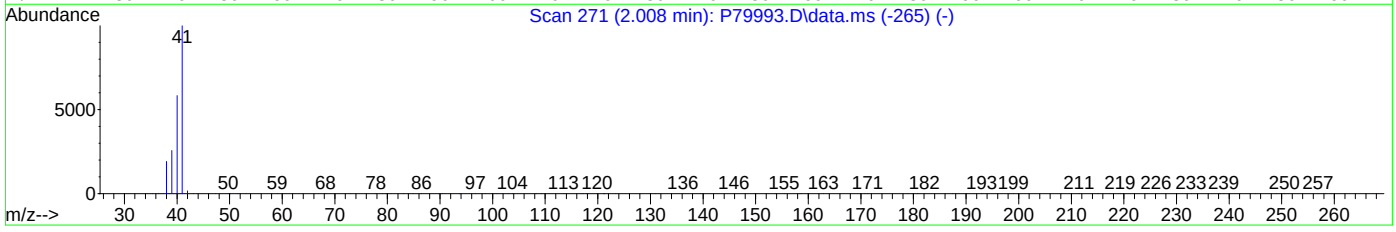
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96264.D
Acq On : 12 Dec 2022 8:39 pm
Operator : courtnef
Sample : FC1074-1MS, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:22:33 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration







TIC: 1P96264.D\data.ms

(25) Acetonitrile

2.544min (-0.003) 209.95ug/L

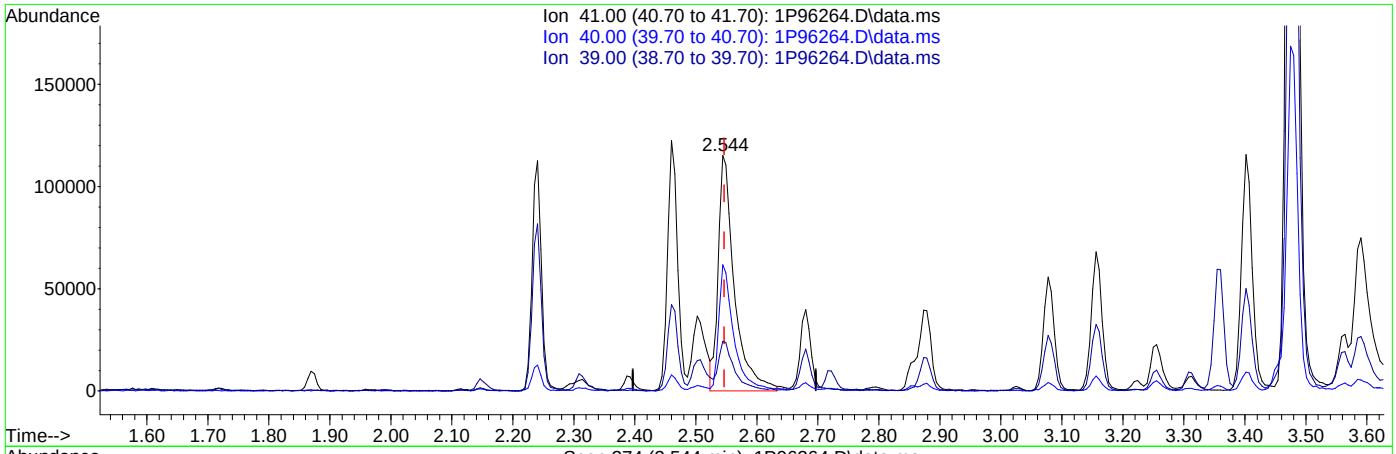
response 157175

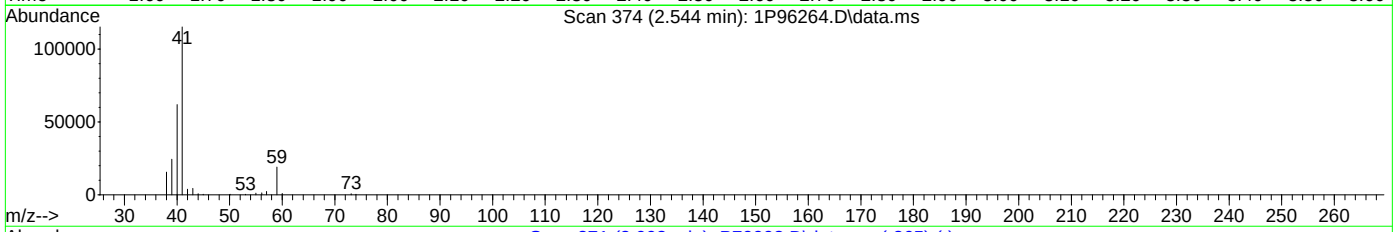
Ion	Exp%	Act%
41.00	100	100
40.00	51.60	54.02
39.00	20.40	20.87
0.00	0.00	0.00

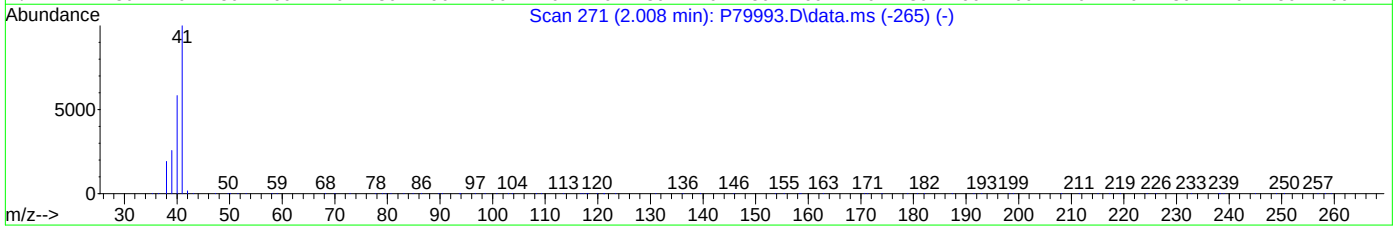
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96264.D
Acq On : 12 Dec 2022 8:39 pm
Operator : courtnef
Sample : FC1074-1MS, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:22:33 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration







TIC: 1P96264.D\data.ms

(25) Acetonitrile

2.544min (-0.003) 294.66ug/L m

response 212436

Ion	Exp%	Act%
41.00	100	100
40.00	51.60	53.62
39.00	20.40	21.06
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira
12/14/22 01:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96265.D
Acq On : 12 Dec 2022 8:55 pm
Operator : courtnef
Sample : FC1200-21MS, 10X Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:08:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.718	96	854150	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.638	117	638891	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.327	152	292386	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.263	113	189516	53.10	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.20%			
49) 1,2-Dichloroethane-d4	3.551	65	277394	54.02	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.04%			
63) Toluene-d8	4.644	98	862167	47.46	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 94.92%			
86) 4-Bromofluorobenzene	6.490	174	233897	52.19	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.38%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.124	85	91823	28.24	ug/L	97
3) Chloromethane	1.255	50	97153	26.58	ug/L	97
4) 1,3-butadiene	1.323	39	107300	28.16	ug/L	91
5) Vinyl Chloride	1.307	62	93563	23.47	ug/L	100
6) Bromomethane	1.511	94	19341	10.39	ug/L	96
7) Chloroethane	1.585	64	38954	33.53	ug/L	95
8) Trichlorofluoromethane	1.674	101	113161	25.25	ug/L	99
9) Ethyl Ether	1.883	59	66772	19.88	ug/L	99
10) Ethanol	1.977	45	44761	400.43	ug/L	99
11) 1,2-Dichlorotrifluoroe...	1.977	67	92165	23.91	ug/L	96
12) 1,1-Dichloroethene	1.982	61	129327	27.36	ug/L	99
13) Freon 113	2.019	101	76106	26.68	ug/L	95
14) Carbon Disulfide	2.003	76	206254	23.20	ug/L	97
15) Iodomethane	2.061	142	52091	24.50	ug/L	99
16) Acrolein	2.155	56	114699	110.10	ug/L	98
17) Allyl chloride	2.249	41	118073	27.38	ug/L	98
18) Methylene Chloride	2.301	49	111474	21.54	ug/L	97
19) Acetone	2.317	43	253539	108.50	ug/L	98
20) Methyl acetate	2.395	43	534980	107.87	ug/L	97
21) trans-1,2-Dichloroethene	2.400	61	120803	25.66	ug/L	99
22) Hexane	2.468	56	59972	23.29	ug/L	96
23) Methyl Tert Butyl Ether	2.474	73	272682	24.52	ug/L	98
24) Tert Butyl Alcohol	2.510	59	291638	251.12	ug/L	99
25) Acetonitrile	2.552	41	227751m	262.57	ug/L	
26) Di-isopropyl ether	2.688	45	254047	22.18	ug/L	98
27) Chloroprene	2.730	53	413094	24.38	ug/L	99
28) 1,1-Dichloroethane	2.730	63	163006	26.58	ug/L	99
29) Acrylonitrile	2.730	52	266548	119.55	ug/L	98
30) ETBE	2.882	59	251664	22.47	ug/L	98
31) Vinyl acetate	2.861	43	1164472	132.28	ug/L	100
32) cis-1,2-Dichloroethene	3.023	96	100932	29.63	ug/L	93
33) 2,2-Dichloropropane	3.086	77	122822	24.37	ug/L	99
34) Bromochloromethane	3.127	128	37609	26.99	ug/L	93
35) Cyclohexane	3.164	56	143221	25.92	ug/L	95
36) Chloroform	3.169	83	159091	26.40	ug/L	99
37) Ethyl acetate	3.227	43	748847	120.37	ug/L	99
38) Tetrahydrofuran	3.258	42	55000	22.53	ug/L	95
40) Carbon Tetrachloride	3.269	117	121716m	32.37	ug/L	
41) 1,1,1-Trichloroethane	3.295	97	149588	29.97	ug/L	97
42) 2-Butanone	3.316	43	437837	116.34	ug/L	95
43) 1,1-Dichloropropene	3.363	75	122546	26.65	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96265.D
Acq On : 12 Dec 2022 8:55 pm
Operator : courtnef
Sample : FC1200-21MS, 10X Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:08:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl formate	3.410	59	237673	90.59	ug/L		94
45) Propionitrile	3.462	54	245153	241.96	ug/L		99
46) Methacrylonitrile	3.483	41	799541	227.13	ug/L		98
47) Benzene	3.494	78	357018	24.39	ug/L		91
48) TAME	3.567	73	261792	24.72	ug/L		97
50) Isobutyl alcohol	3.593	43	195339m	305.24	ug/L		
51) 1,2-Dichloroethane	3.588	62	129516	26.02	ug/L		98
52) Tert Amyl Alcohol	3.651	59	230472	248.89	ug/L		98
53) Trichloroethene	3.823	95	91496	25.95	ug/L		99
54) Methylcyclohexane	3.844	83	138796	28.19	ug/L		97
55) Dibromomethane	4.048	93	52348	26.46	ug/L		92
56) 1,2-Dichloropropane	4.106	63	87778	24.89	ug/L		97
57) Bromodichloromethane	4.142	83	115104	30.16	ug/L		95
58) Methyl methacrylate	4.231	41	104370	25.09	ug/L		95
59) 1,4-Dioxane	4.257	88	48302	548.80	ug/L		95
61) cis-1,3-Dichloropropene	4.519	75	133713	25.64	ug/L		94
64) Toluene	4.676	91	393934	23.87	ug/L		100
65) 2-Nitropropane	4.775	41	204397	119.25	ug/L		99
66) 4-Methyl-2-pentanone	4.885	43	817801	115.54	ug/L		99
67) trans-1,3-Dichloropropene	4.916	75	136696	27.76	ug/L		99
68) Tetrachloroethene	4.937	166	85237	26.10	ug/L		99
69) Ethyl methacrylate	5.026	69	120734	22.10	ug/L		95
70) 1,1,2-Trichloroethane	5.016	83	70260	24.18	ug/L		95
71) Dibromochloromethane	5.141	129	76444	26.90	ug/L		99
72) 1,3-Dichloropropane	5.193	76	145452	22.88	ug/L		93
73) 1,2-Dibromoethane	5.293	107	82520	24.73	ug/L		99
74) 3,3-dimethyl-1-butanol	5.429	57	1143992	1066.27	ug/L		98
75) 2-hexanone	5.429	43	843505	111.51	ug/L		98
76) 1-Chlorohexane	5.648	91	119777m	23.06	ug/L		
77) Ethylbenzene	5.680	91	439769	24.64	ug/L		98
78) Chlorobenzene	5.654	112	227802	23.81	ug/L		97
79) 1,1,1,2-Tetrachloroethane	5.695	131	81747	28.09	ug/L		94
80) m,p-Xylene	5.779	91	681477	48.68	ug/L		100
81) o-Xylene	6.077	91	339169	24.56	ug/L		100
82) Styrene	6.109	104	244656	24.69	ug/L		98
83) Bromoform	6.114	173	45998	30.42	ug/L		98
84) Isopropylbenzene	6.307	105	387555	24.63	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.522	53	29090	16.48	ug/L		89
88) n-Propylbenzene	6.606	91	477581	23.39	ug/L		99
89) Bromobenzene	6.569	156	86244	23.51	ug/L		95
90) 1,1,2,2-Tetrachloroethane	6.626	83	134179	23.51	ug/L		99
91) 1,3,5-Trimethylbenzene	6.752	105	315664	23.24	ug/L		98
92) 2-Chlorotoluene	6.710	91	284339	23.24	ug/L		98
93) trans-1,4-Dichloro-2-B...	6.757	53	39375	18.96	ug/L		96
94) 1,2,3-Trichloropropane	6.721	110	42558	21.24	ug/L		94
95) Cyclohexanone	6.747	55	39893	100.29	ug/L		96
96) 4-Chlorotoluene	6.830	91	300529	23.59	ug/L		100
97) tert-Butylbenzene	6.987	91	180367	23.25	ug/L		97
99) 1,2,4-Trimethylbenzene	7.040	105	313205	23.98	ug/L		96
100) Pentachloroethane	6.993	167	50867	30.89	ug/L	#	61
101) sec-Butylbenzene	7.129	105	359634	24.11	ug/L		98
102) 4-Isopropyltoluene	7.244	119	304820	24.23	ug/L		100
103) 1,3-Dichlorobenzene	7.275	146	167818	25.05	ug/L		97
104) 1,2,3-Trimethylbenzene	7.369	105	324942	24.96	ug/L		98
105) 1,4-Dichlorobenzene	7.343	146	167943	23.90	ug/L		98
106) n-Butylbenzene	7.557	92	140297	21.60	ug/L		99
107) Benzyl Chloride	7.516	126	33351	20.46	ug/L	#	83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96265.D
Acq On : 12 Dec 2022 8:55 pm
Operator : courtnef
Sample : FC1200-21MS, 10X Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:08:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

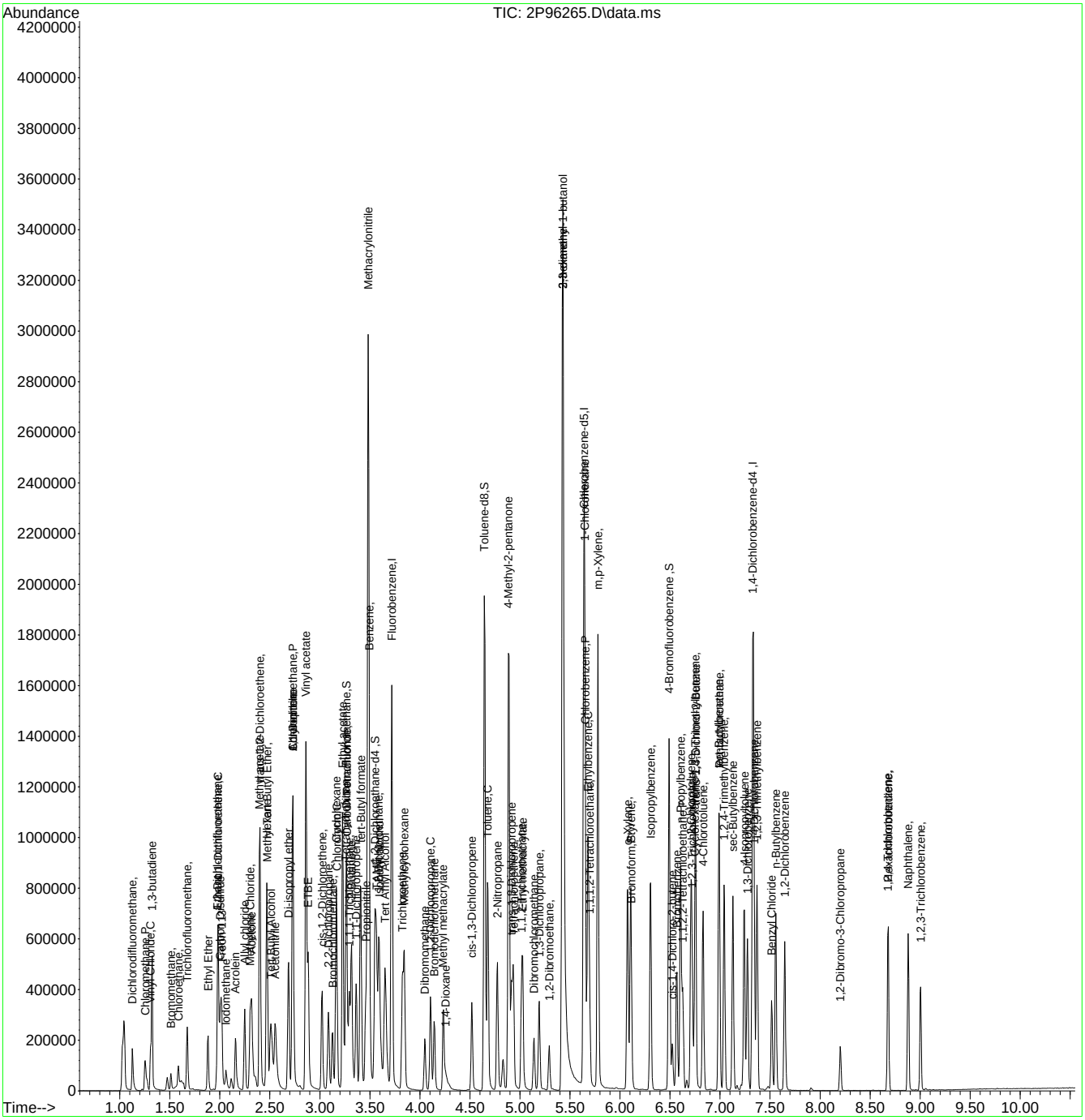
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dichlorobenzene	7.646	146	152385	24.05	ug/L	97
109) 1,2-Dibromo-3-Chloropr...	8.201	75	29303	23.27	ug/L	95
110) Hexachlorobutadiene	8.682	225	32444	28.89	ug/L	87
111) 1,2,4-Trichlorobenzene	8.677	180	75916	22.90	ug/L	97
112) Naphthalene	8.881	128	287513	20.93	ug/L	100
113) 1,2,3-Trichlorobenzene	9.006	180	77484	25.02	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96265.D
Acq On : 12 Dec 2022 8:55 pm
Operator : courtnef
Sample : FC1200-21MS, 10X Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:08:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



Manual Integration Approval Summary

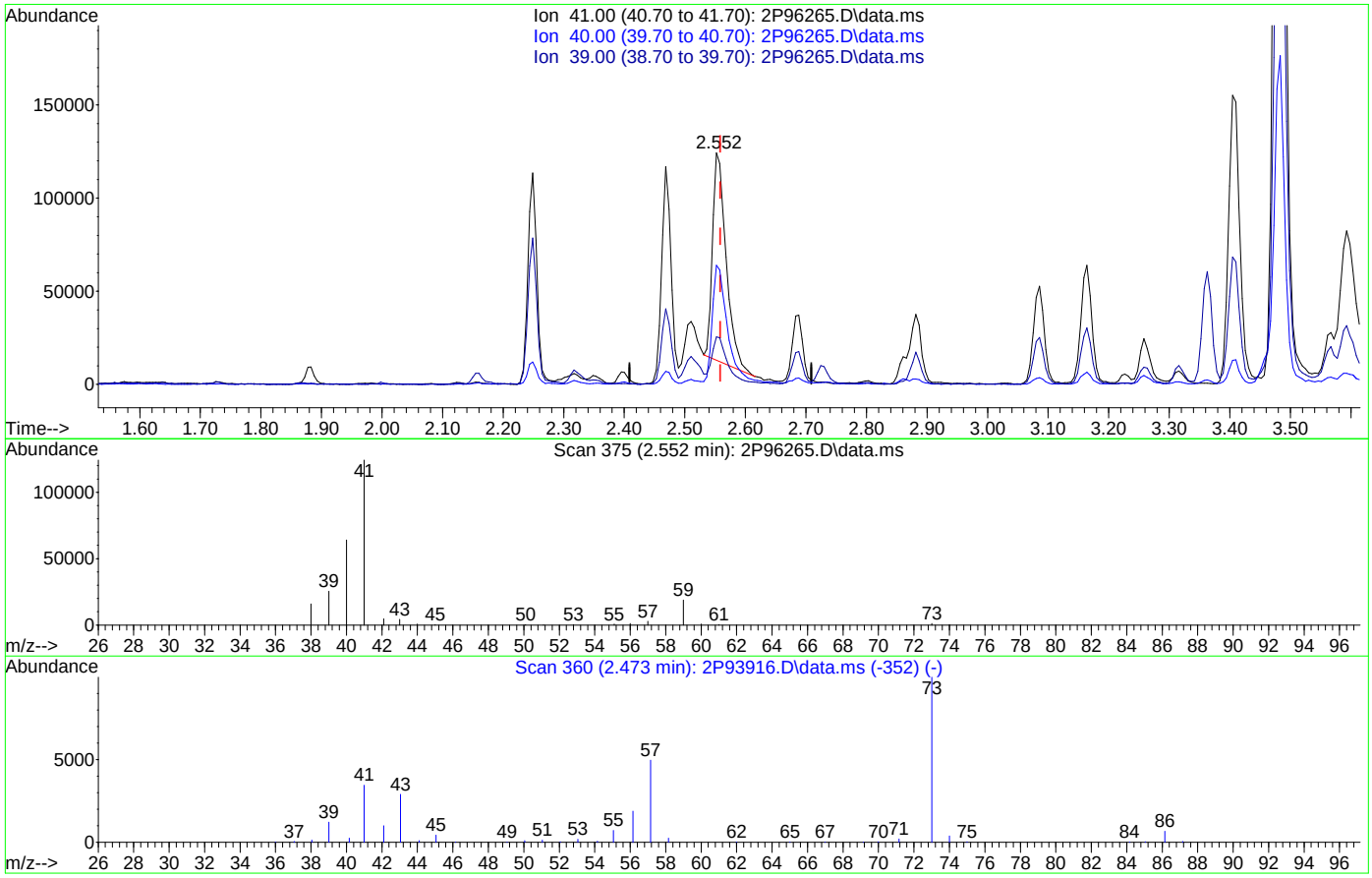
Sample Number: FC1200-21MS
Lab FileID: 2P96265.D
Injection Time: 12/12/22 20:55
Method: SW846 8260D
Analyst approved: 12/13/22 01:19 Jennifer Fereira
Supervisor approved: 12/14/22 01:20 Jennifer Fereira

Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.55	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96265.D
Acq On : 12 Dec 2022 8:55 pm
Operator : courtnef
Sample : FC1200-21MS, 10X Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:01:36 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



TIC: 2P96265.D\data.ms

(25) Acetonitrile

2.552min (-0.007) 202.64ug/L

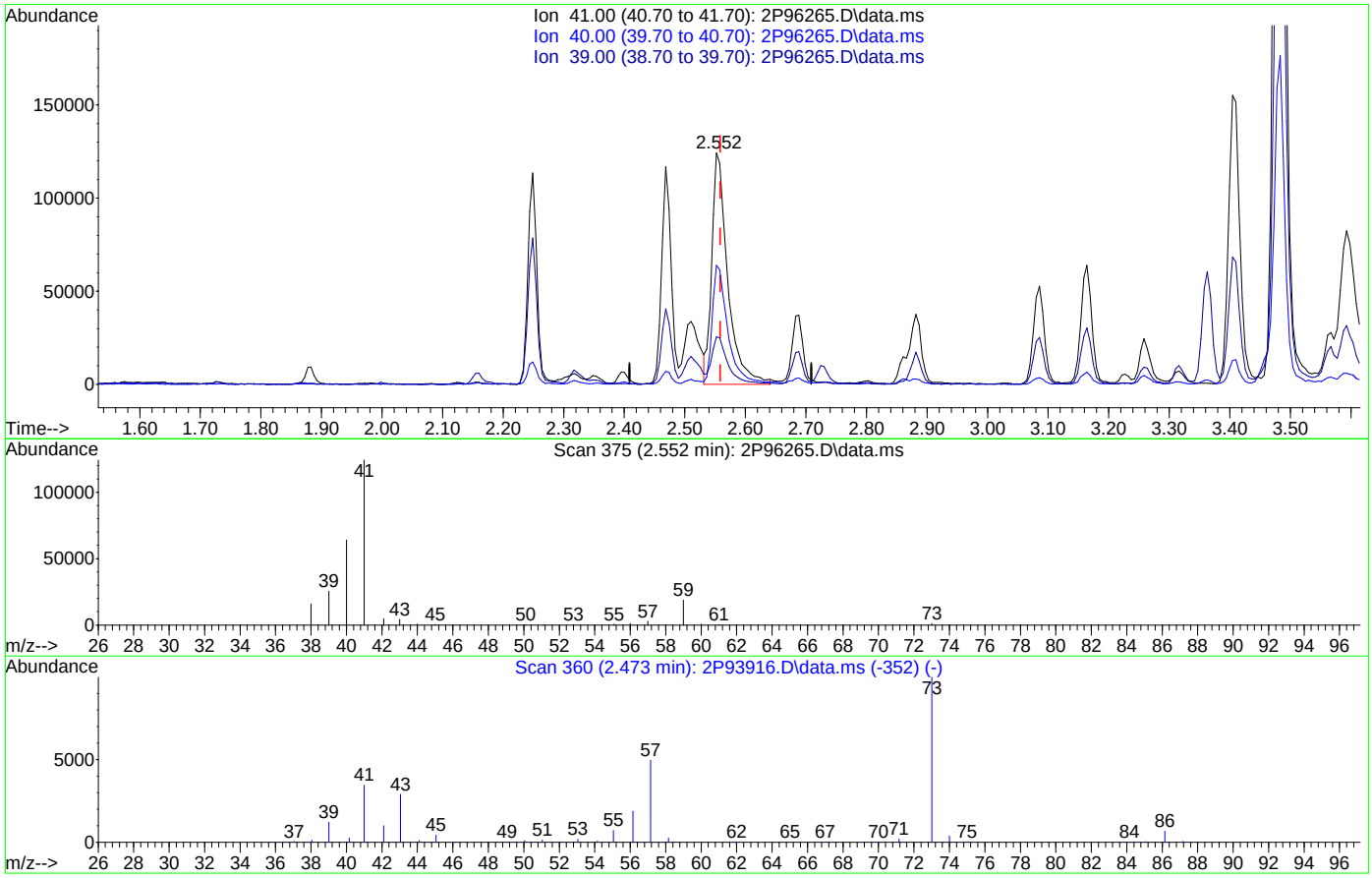
response 171946

Ion	Exp%	Act%
41.00	100	100
40.00	53.90	52.10
39.00	19.60	20.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96265.D
Acq On : 12 Dec 2022 8:55 pm
Operator : courtnef
Sample : FC1200-21MS, 10X Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:01:36 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



TIC: 2P96265.D\data.ms

(25) Acetonitrile

2.552min (-0.007) 262.57ug/L m

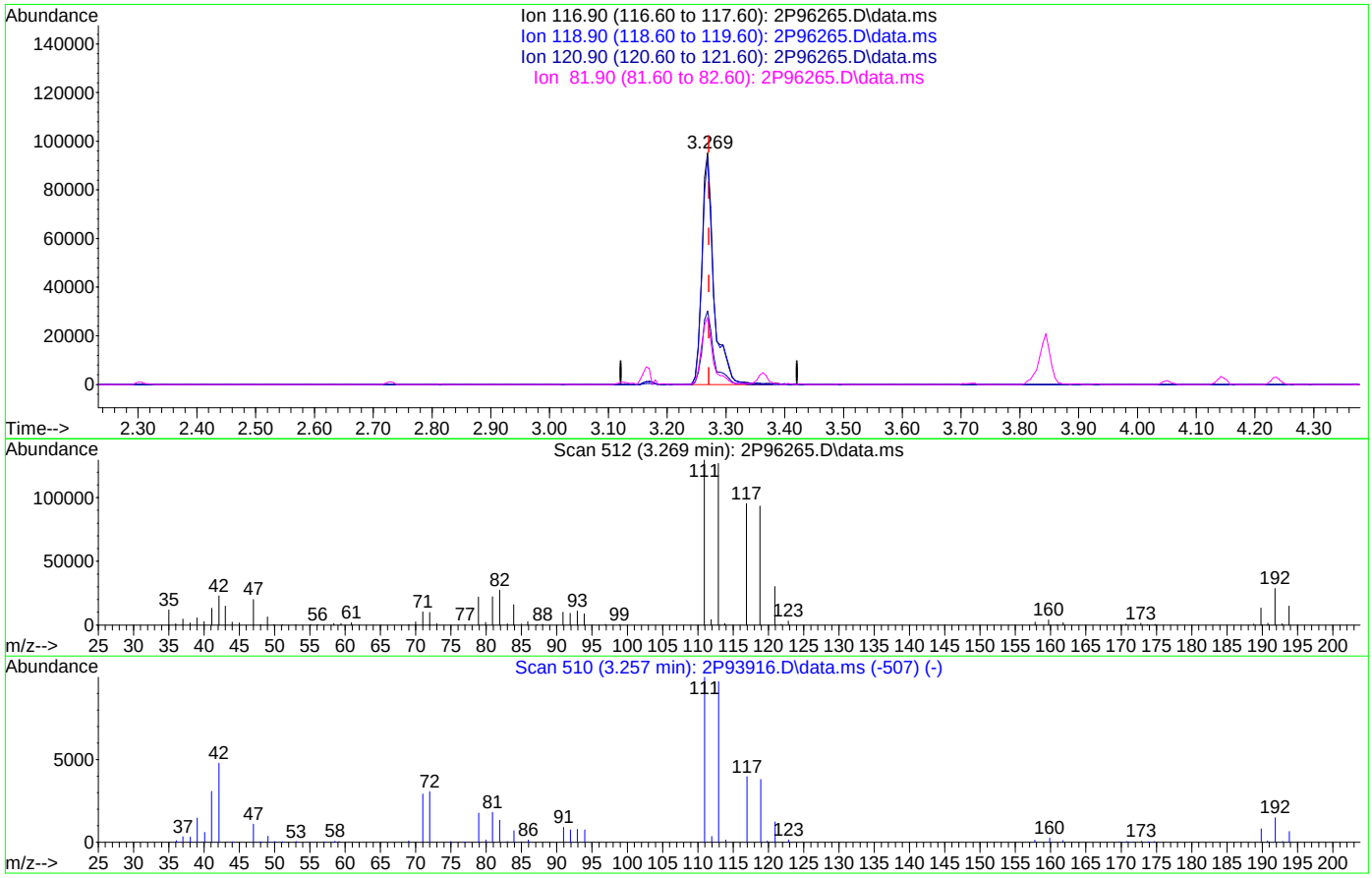
response 227751

Ion	Exp%	Act%
41.00	100	100
40.00	53.90	51.49
39.00	19.60	20.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96265.D
Acq On : 12 Dec 2022 8:55 pm
Operator : courtnef
Sample : FC1200-21MS, 10X Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:01:36 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



TIC: 2P96265.D\data.ms

(40) Carbon Tetrachloride ( )

3.269min (-0.002) 36.19ug/L

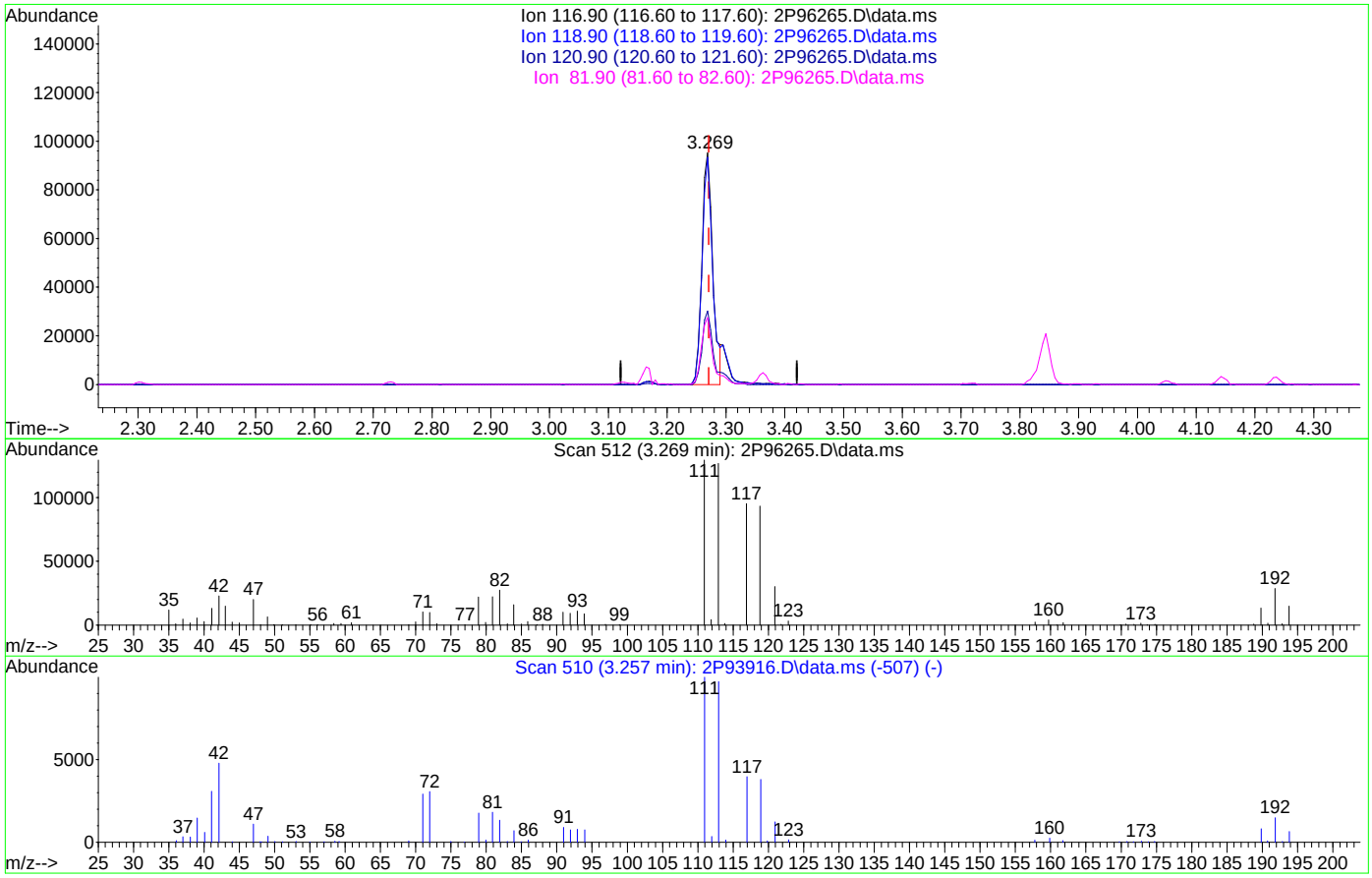
response 136055

Ion	Exp%	Act%
116.90	100	100
118.90	94.10	98.05
120.90	30.80	31.68
81.90	27.00	28.83

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96265.D
Acq On : 12 Dec 2022 8:55 pm
Operator : courtnef
Sample : FC1200-21MS, 10X Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:01:36 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



TIC: 2P96265.D\data.ms

(40) Carbon Tetrachloride ( )

3.269min (-0.002) 32.37ug/L m

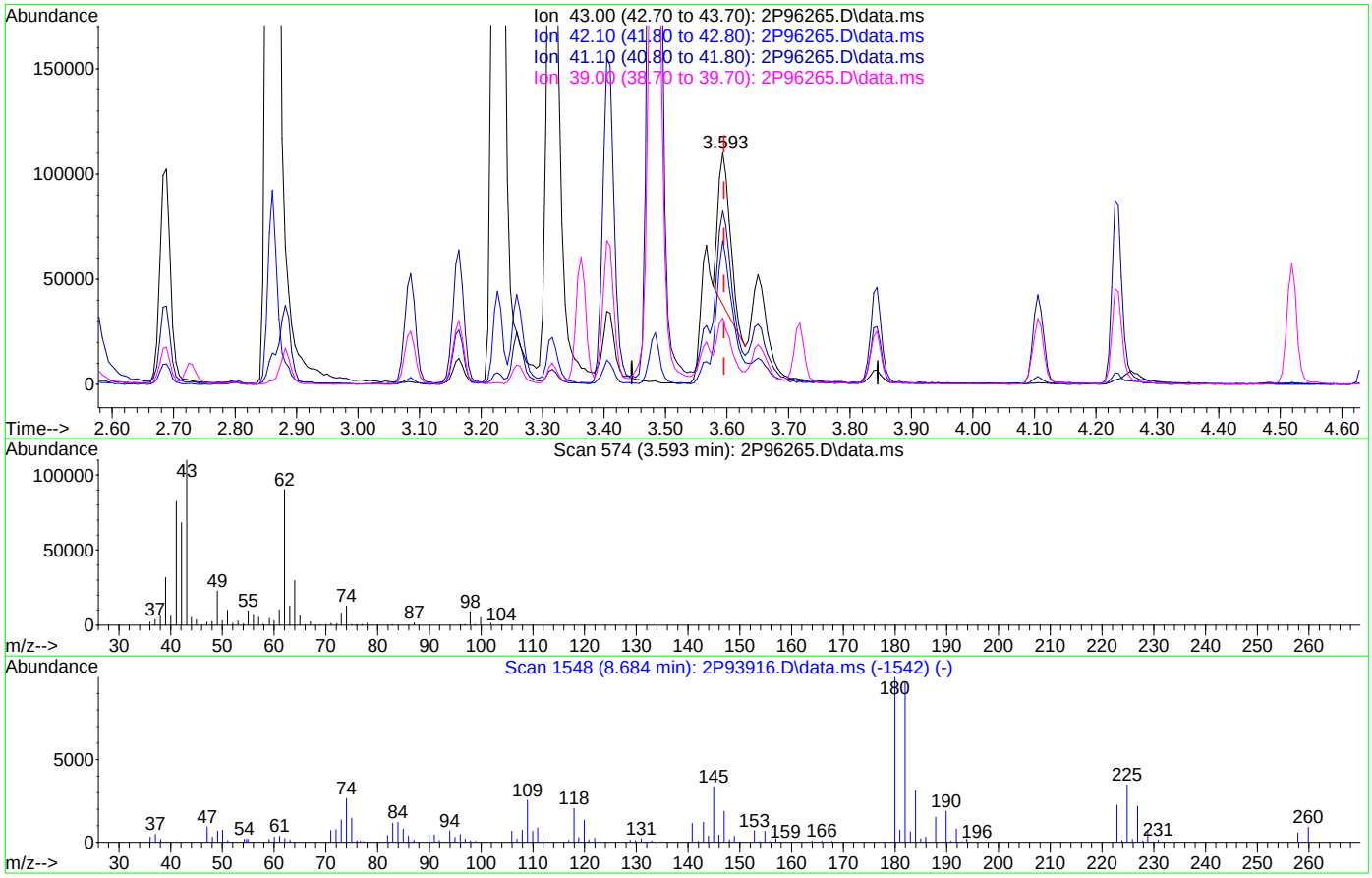
response 121716

Ion	Exp%	Act%
116.90	100	100
118.90	94.10	98.05
120.90	30.80	31.68
81.90	27.00	28.83

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96265.D
Acq On : 12 Dec 2022 8:55 pm
Operator : courtnef
Sample : FC1200-21MS, 10X Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:01:36 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



TIC: 2P96265.D\data.ms

(50) Isobutyl alcohol

3.593min (-0.002) 146.51ug/L

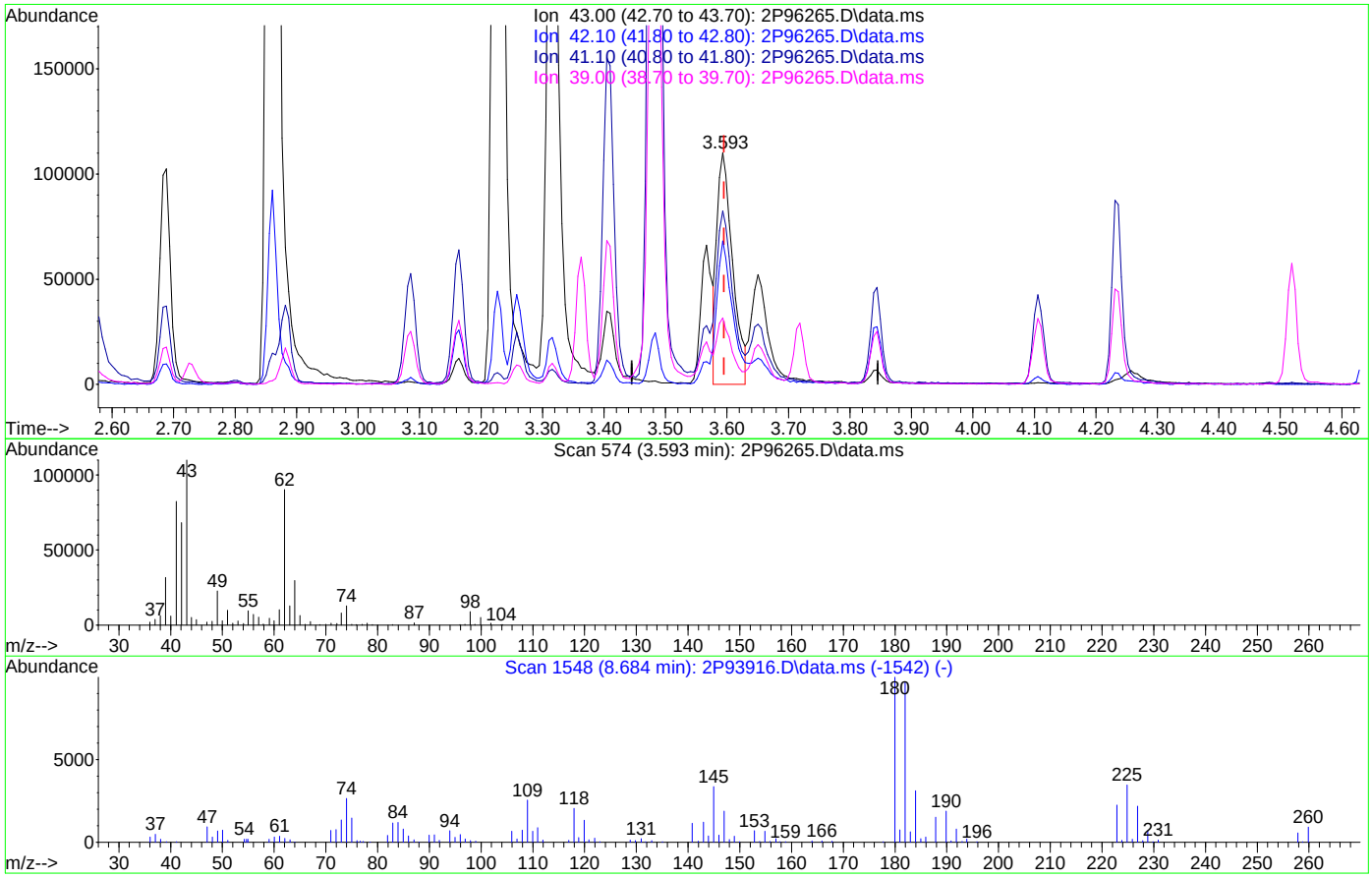
response 93756

Ion	Exp%	Act%
43.00	100	100
42.10	60.00	62.90
41.10	71.90	74.63
39.00	26.60	27.77

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96265.D
Acq On : 12 Dec 2022 8:55 pm
Operator : courtnef
Sample : FC1200-21MS, 10X Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:01:36 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



TIC: 2P96265.D\data.ms

(50) Isobutyl alcohol

3.593min (-0.002) 305.24ug/L m

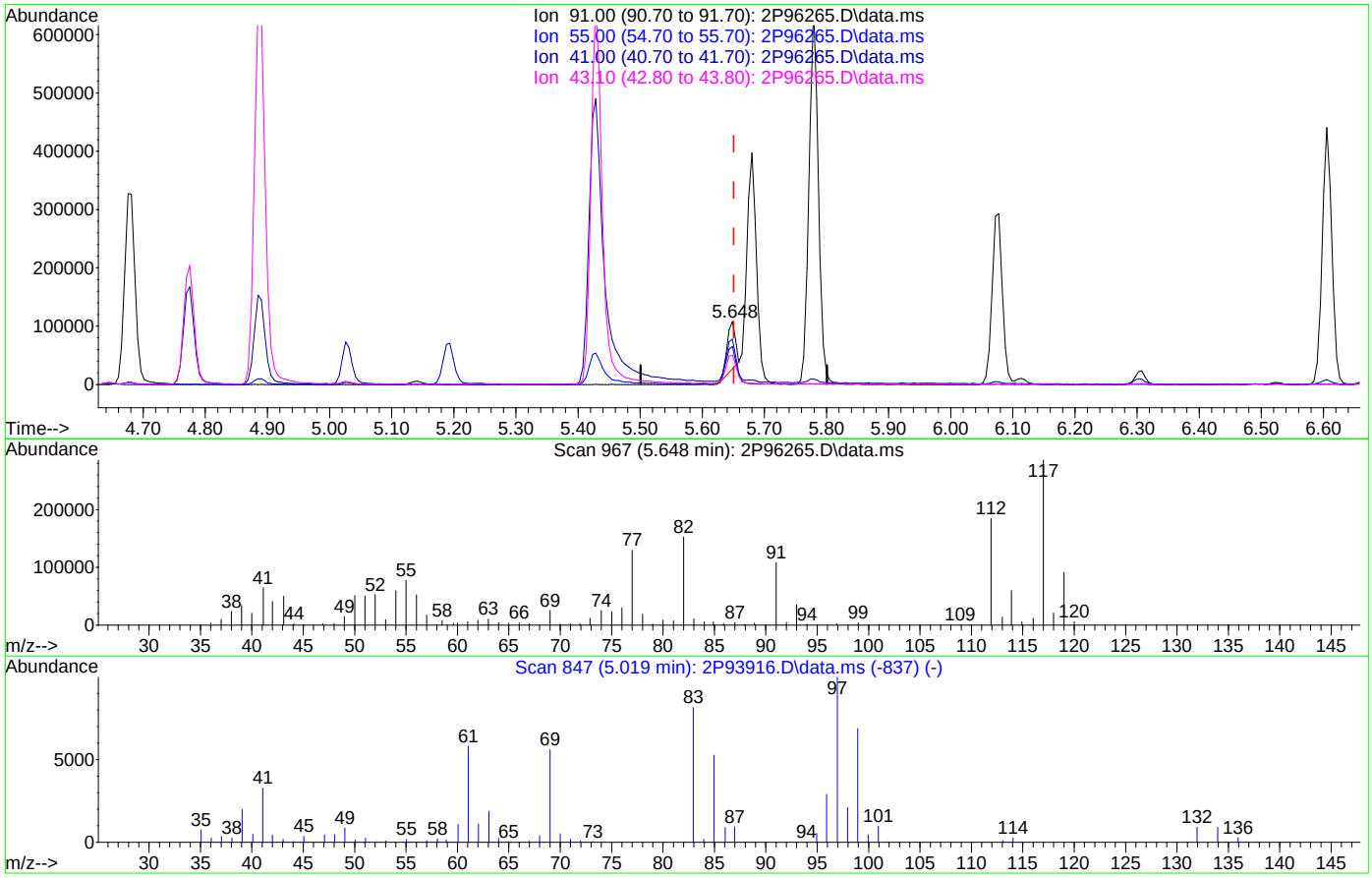
response 195339

Ion	Exp%	Act%
43.00	100	100
42.10	60.00	61.95
41.10	71.90	74.85
39.00	26.60	28.73

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96265.D
Acq On : 12 Dec 2022 8:55 pm
Operator : courtnef
Sample : FC1200-21MS, 10X Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:01:36 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



TIC: 2P96265.D\data.ms

(76) 1-Chlorohexane

5.648min (-0.002) 15.60ug/L

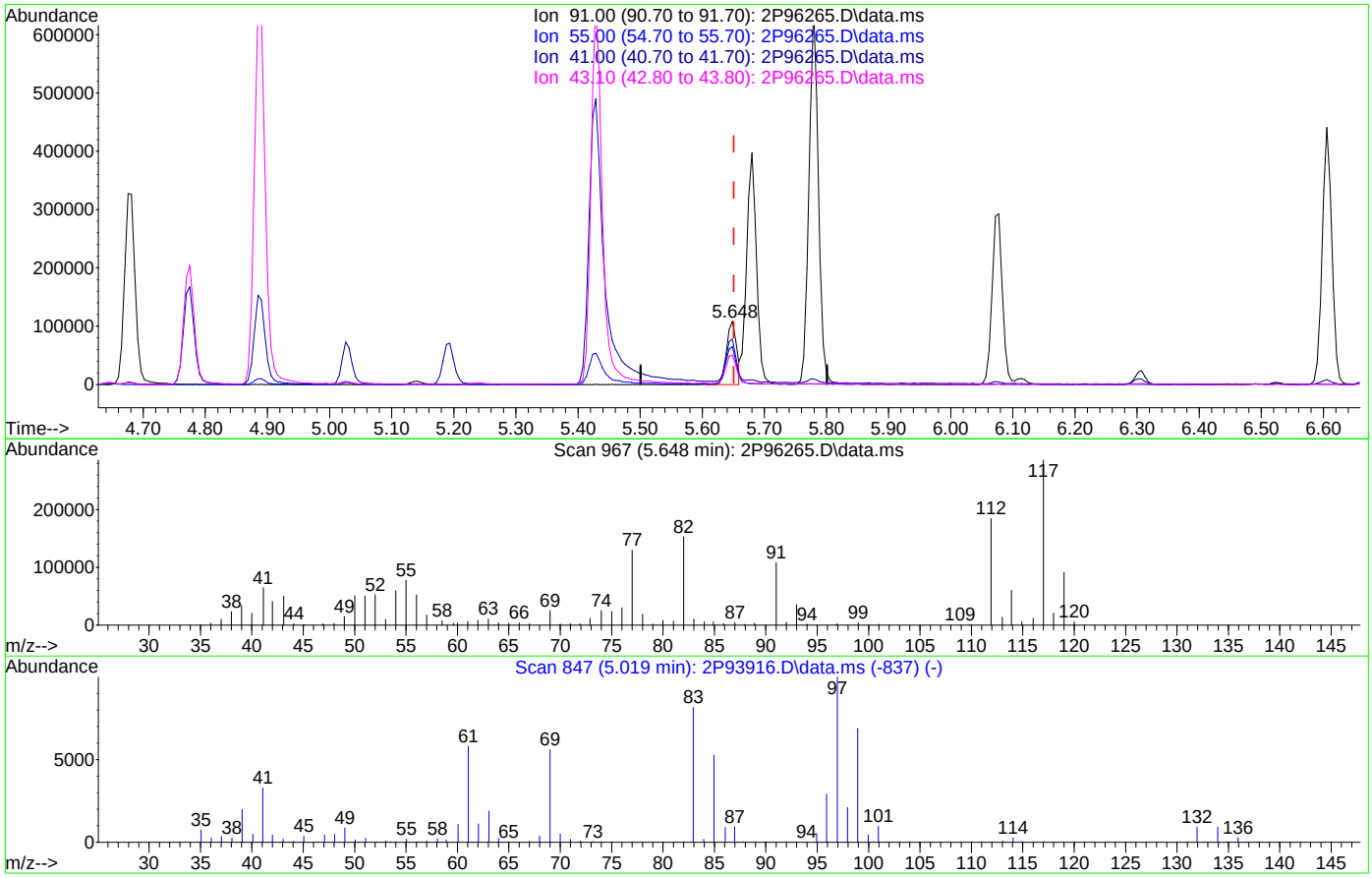
response 81046

Ion	Exp%	Act%
91.00	100	100
55.00	73.60	69.37
41.00	60.90	54.38
43.10	49.80	43.94

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96265.D
Acq On : 12 Dec 2022 8:55 pm
Operator : courtnef
Sample : FC1200-21MS, 10X Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:01:36 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



TIC: 2P96265.D\data.ms

(76) 1-Chlorohexane

5.648min (-0.002) 23.06ug/L m

response 119777

Ion	Exp%	Act%
91.00	100	100
55.00	73.60	71.84
41.00	60.90	59.95
43.10	49.80	46.38

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/14/22 01:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96266.D
Acq On : 12 Dec 2022 9:10 pm
Operator : courtnef
Sample : FC1074-1MSD, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:04:55 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.717	96	962823	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	638423	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.331	152	282159	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.262	113	216442	53.91	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.82%			
49) 1,2-Dichloroethane-d4	3.549	65	305357	52.77	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.54%			
63) Toluene-d8	4.643	98	918697	49.04	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.08%			
86) 4-Bromofluorobenzene	6.494	174	229084	53.15	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.117	85	79684	23.40	ug/L	99
3) Chloromethane	1.243	50	87095	18.36	ug/L	98
4) 1,3-butadiene	1.311	39	106067	23.04	ug/L	99
5) Vinyl Chloride	1.300	62	83203	19.56	ug/L	100
6) Bromomethane	1.504	94	24688	52.62	ug/L	98
7) Chloroethane	1.578	64	34970	26.42	ug/L	95
8) Trichlorofluoromethane	1.667	101	110384	22.93	ug/L	99
9) Ethyl Ether	1.876	59	72511	18.74	ug/L	98
10) Ethanol	1.959	45	40848	305.26	ug/L	94
11) 1,2-Dichlorotrifluoroe...	1.970	67	106976	23.20	ug/L	100
12) 1,1-Dichloroethene	1.975	61	149149	27.07	ug/L	98
13) Freon 113	2.012	101	83109	26.29	ug/L	95
14) Carbon Disulfide	1.996	76	231377	21.80	ug/L	96
15) Iodomethane	2.054	142	42394	83.42	ug/L	97
16) Acrolein	2.148	56	119600	98.29	ug/L	99
17) Allyl chloride	2.242	41	137530	30.73	ug/L	98
18) Methylene Chloride	2.294	49	116206	20.88	ug/L	99
19) Acetone	2.315	43	264362	104.99	ug/L	99
20) Methyl acetate	2.394	43	619696	108.86	ug/L	94
21) trans-1,2-Dichloroethene	2.399	61	136805	25.91	ug/L	95
22) Hexane	2.462	56	73096	25.13	ug/L #	88
23) Methyl Tert Butyl Ether	2.467	73	311631	25.00	ug/L	96
24) Tert Butyl Alcohol	2.509	59	323783	252.77	ug/L	100
25) Acetonitrile	2.550	41	242017m	296.31	ug/L	
26) Di-isopropyl ether	2.681	45	310804	24.10	ug/L	99
27) Chloroprene	2.723	53	465570	24.10	ug/L	98
28) 1,1-Dichloroethane	2.723	63	188953	27.78	ug/L	96
29) Acrylonitrile	2.723	52	297805	116.81	ug/L	95
30) ETBE	2.880	59	309576	24.62	ug/L	99
31) Vinyl acetate	2.854	43	1368828	140.55	ug/L	99
32) cis-1,2-Dichloroethene	3.016	96	104727	27.94	ug/L	99
33) 2,2-Dichloropropane	3.079	77	134835	23.91	ug/L	98
34) Bromochloromethane	3.126	128	40692	26.88	ug/L #	84
35) Cyclohexane	3.157	56	171973	27.99	ug/L	96
36) Chloroform	3.162	83	180650	26.96	ug/L	100
37) Ethyl acetate	3.225	43	861899	124.41	ug/L	99
38) Tetrahydrofuran	3.257	42	62518	23.25	ug/L	97
40) Carbon Tetrachloride	3.262	117	133576m	33.01	ug/L	
41) 1,1,1-Trichloroethane	3.293	97	164456	29.46	ug/L	95
42) 2-Butanone	3.314	43	491453	120.36	ug/L	99
43) 1,1-Dichloropropene	3.361	75	140340	27.33	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96266.D
Acq On : 12 Dec 2022 9:10 pm
Operator : courtnef
Sample : FC1074-1MSD, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:04:55 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl formate	3.403	59	196291	66.86	ug/L		97
45) Propionitrile	3.455	54	263817	237.70	ug/L		97
46) Methacrylonitrile	3.481	41	929791	233.33	ug/L		99
47) Benzene	3.492	78	408549	24.87	ug/L		95
48) TAME	3.565	73	306026	26.16	ug/L		96
50) Isobutyl alcohol	3.591	43	203046m	299.54	ug/L		
51) 1,2-Dichloroethane	3.586	62	140278	25.56	ug/L		98
52) Tert Amyl Alcohol	3.649	59	232038	226.71	ug/L		96
53) Trichloroethene	3.821	95	100432	25.92	ug/L		93
54) Methylcyclohexane	3.842	83	157645	28.57	ug/L		98
55) Dibromomethane	4.046	93	56017	25.54	ug/L		94
56) 1,2-Dichloropropane	4.104	63	95738	24.80	ug/L		98
57) Bromodichloromethane	4.140	83	123088	29.91	ug/L		98
58) Methyl methacrylate	4.235	41	112585	25.28	ug/L		93
59) 1,4-Dioxane	4.261	88	45625	533.67	ug/L		95
61) cis-1,3-Dichloropropene	4.517	75	141618	26.08	ug/L		94
64) Toluene	4.679	91	417791	24.80	ug/L		98
65) 2-Nitropropane	4.773	41	215336	125.82	ug/L		100
66) 4-Methyl-2-pentanone	4.888	43	820243	115.39	ug/L		99
67) trans-1,3-Dichloropropene	4.914	75	141604	28.88	ug/L		93
68) Tetrachloroethene	4.935	166	88709	26.94	ug/L		96
69) Ethyl methacrylate	5.030	69	123572	22.77	ug/L		87
70) 1,1,2-Trichloroethane	5.014	83	70580	24.42	ug/L		97
71) Dibromochloromethane	5.139	129	75892	28.34	ug/L		97
72) 1,3-Dichloropropane	5.192	76	149268	23.24	ug/L		96
73) 1,2-Dibromoethane	5.291	107	83012	25.44	ug/L		94
74) 3,3-dimethyl-1-butanol	5.427	57	1253226	1152.11	ug/L		97
75) 2-hexanone	5.427	43	842288	107.30	ug/L		98
76) 1-Chlorohexane	5.647	91	119775m	23.33	ug/L		
77) Ethylbenzene	5.678	91	439904	24.93	ug/L		99
78) Chlorobenzene	5.652	112	227207	23.91	ug/L		98
79) 1,1,1,2-Tetrachloroethane	5.694	131	82402	28.95	ug/L		96
80) m,p-Xylene	5.777	91	662159	48.50	ug/L		99
81) o-Xylene	6.076	91	330359	24.51	ug/L		98
82) Styrene	6.107	104	231377	24.46	ug/L		99
83) Bromoform	6.112	173	44746	32.19	ug/L		95
84) Isopropylbenzene	6.306	105	373785	25.06	ug/L		98
87) cis-1,4-Dichloro-2-butene	6.525	53	33775	20.56	ug/L	#	83
88) n-Propylbenzene	6.604	91	455308	23.55	ug/L		99
89) Bromobenzene	6.567	156	82432	23.67	ug/L		97
90) 1,1,2,2-Tetrachloroethane	6.625	83	129470	23.83	ug/L		99
91) 1,3,5-Trimethylbenzene	6.755	105	294897	22.91	ug/L		97
92) 2-Chlorotoluene	6.708	91	267595	23.28	ug/L		98
93) trans-1,4-Dichloro-2-B...	6.755	53	42092	21.59	ug/L		92
94) 1,2,3-Trichloropropane	6.724	110	41628	21.80	ug/L		94
95) Cyclohexanone	6.745	55	38351	103.04	ug/L		97
96) 4-Chlorotoluene	6.829	91	282713	23.48	ug/L		99
97) tert-Butylbenzene	6.991	91	166736	22.88	ug/L		94
99) 1,2,4-Trimethylbenzene	7.043	105	275366	21.99	ug/L		98
100) Pentachloroethane	6.991	167	47685	31.47	ug/L	#	66
101) sec-Butylbenzene	7.127	105	337153	23.96	ug/L		99
102) 4-Isopropyltoluene	7.242	119	286285	24.34	ug/L		97
103) 1,3-Dichlorobenzene	7.273	146	158070	24.76	ug/L		98
104) 1,2,3-Trimethylbenzene	7.367	105	289923	23.36	ug/L		99
105) 1,4-Dichlorobenzene	7.341	146	157702	23.85	ug/L		98
106) n-Butylbenzene	7.556	92	124907	20.41	ug/L		97
107) Benzyl Chloride	7.519	126	31208	20.79	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96266.D
Acq On : 12 Dec 2022 9:10 pm
Operator : courtnef
Sample : FC1074-1MSD, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:04:55 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

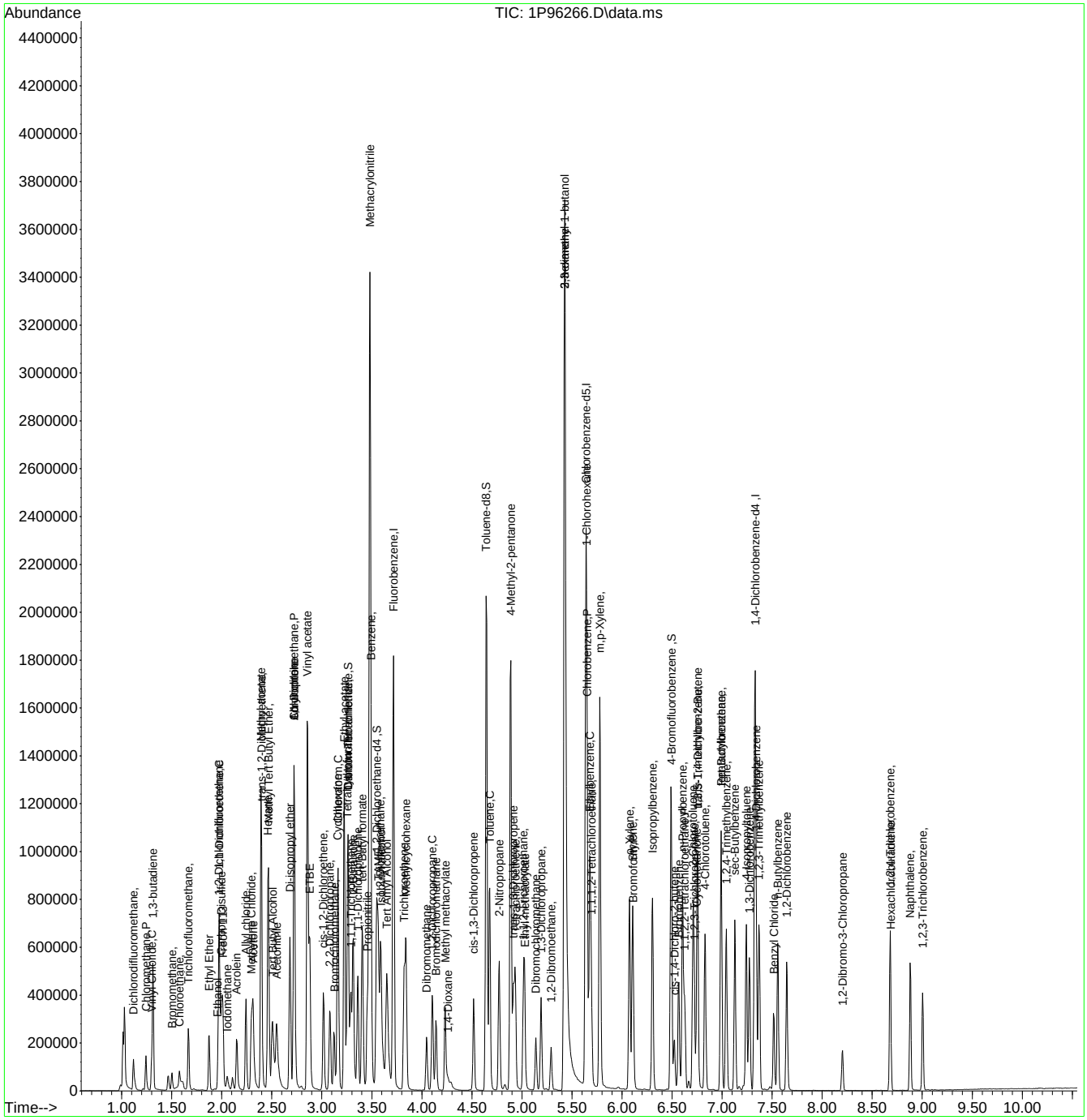
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dichlorobenzene	7.645	146	142759	23.84	ug/L	96
109) 1,2-Dibromo-3-Chloropr...	8.204	75	30037	24.81	ug/L	93
110) Hexachlorobutadiene	8.685	225	33589	30.45	ug/L	95
111) 1,2,4-Trichlorobenzene	8.680	180	72956	22.38	ug/L	98
112) Naphthalene	8.879	128	251397	17.50	ug/L	98
113) 1,2,3-Trichlorobenzene	9.004	180	74418	24.68	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96266.D
Acq On : 12 Dec 2022 9:10 pm
Operator : courtnef
Sample : FC1074-1MSD, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:04:55 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



Manual Integration Approval Summary

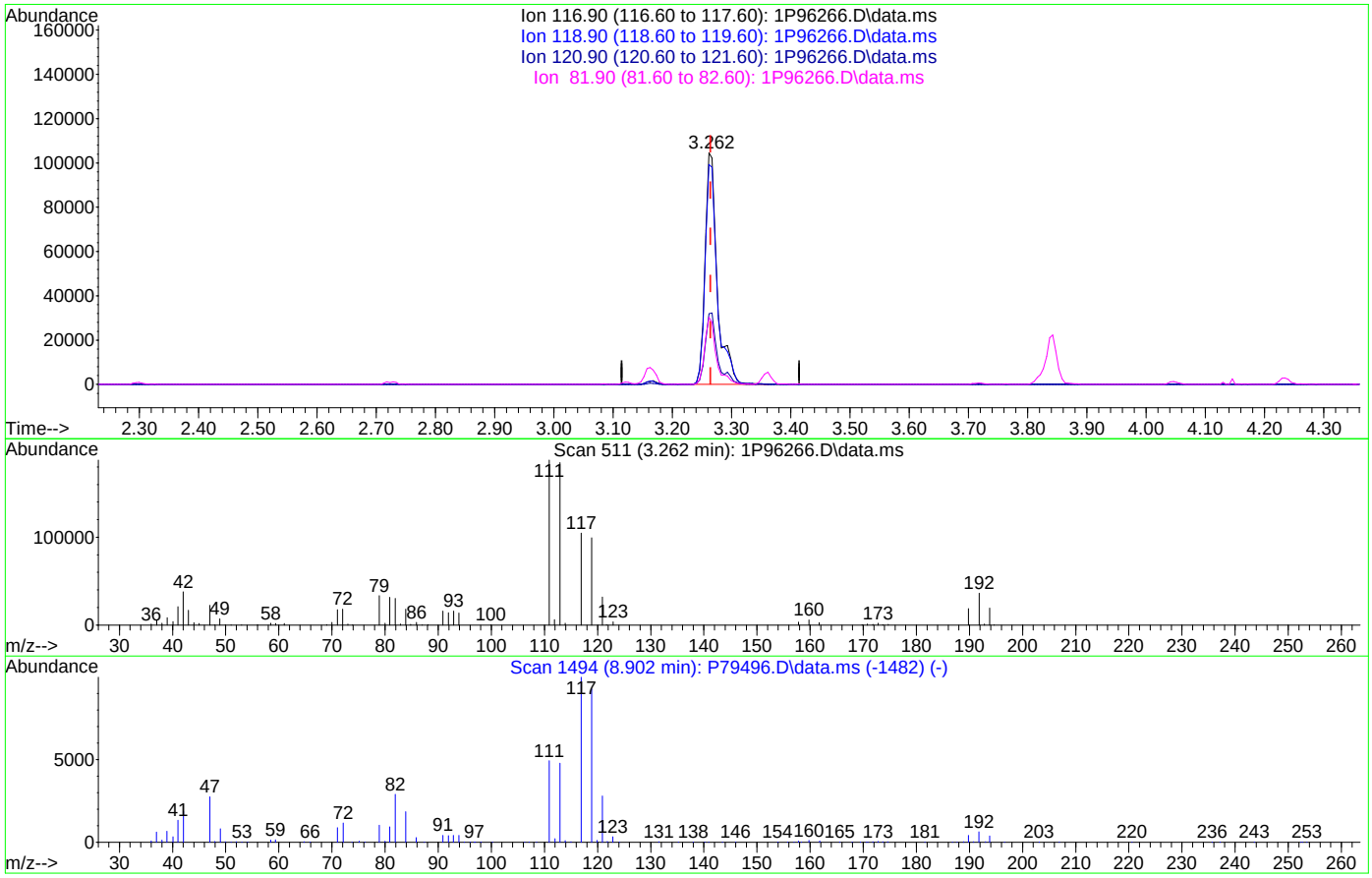
Sample Number: FC1074-1MSD
Lab FileID: 1P96266.D
Injection Time: 12/12/22 21:10
Method: SW846 8260D
Analyst approved: 12/12/22 23:46 Jennifer Fereira
Supervisor approved: 12/14/22 01:34 Jennifer Fereira

Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.55	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96266.D
Acq On : 12 Dec 2022 9:10 pm
Operator : courtnef
Sample : FC1074-1MSD, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:23:14 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



TIC: 1P96266.D\data.ms

(40) Carbon Tetrachloride ( )

3.262min (-0.003) 37.46ug/L

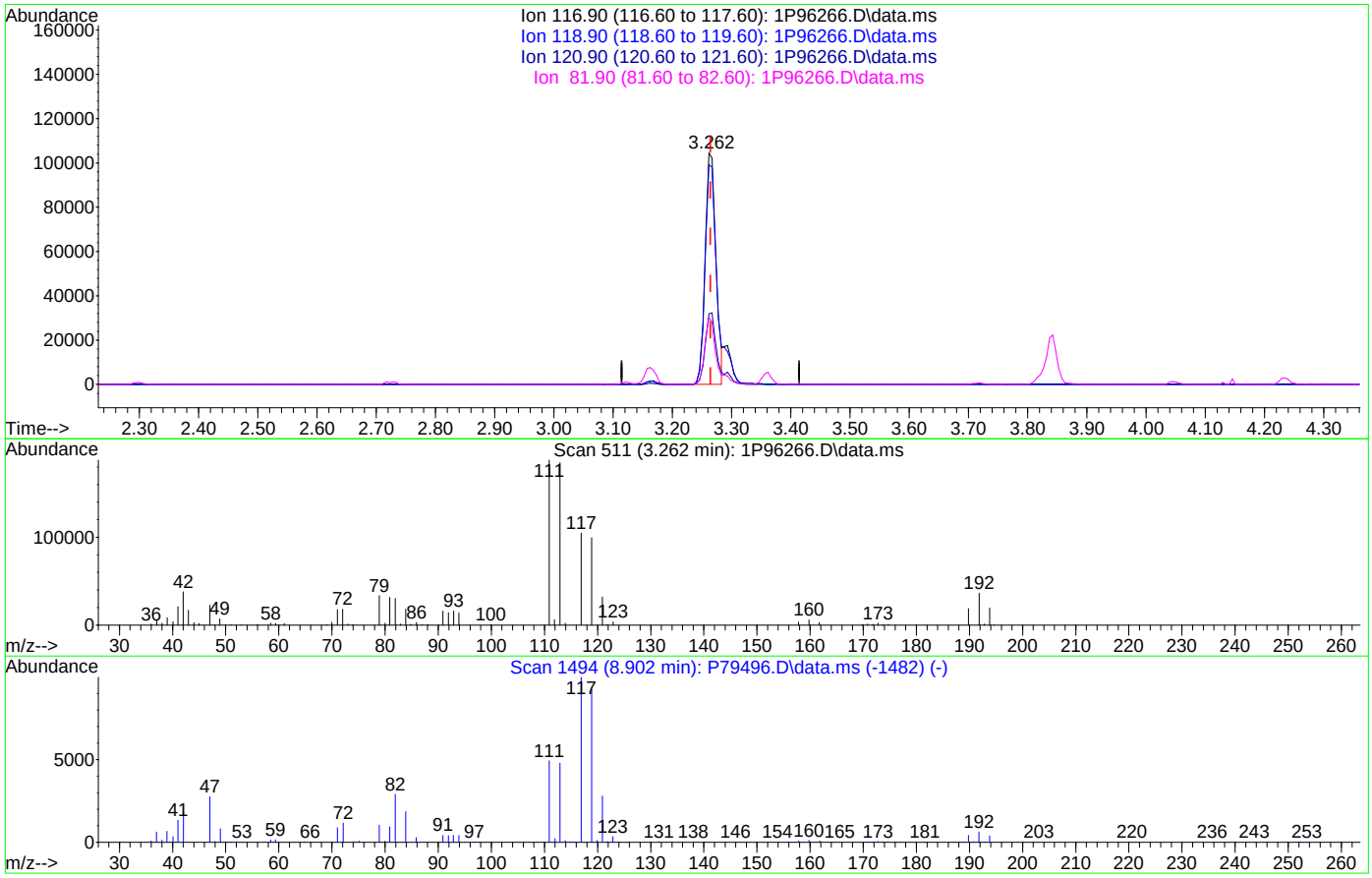
response 151566

Ion	Exp%	Act%
116.90	100	100
118.90	97.80	95.00
120.90	31.00	30.51
81.90	30.20	28.91

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96266.D
Acq On : 12 Dec 2022 9:10 pm
Operator : courtnef
Sample : FC1074-1MSD, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:23:14 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



TIC: 1P96266.D\data.ms

(40) Carbon Tetrachloride ( )

3.262min (-0.003) 33.01ug/L m

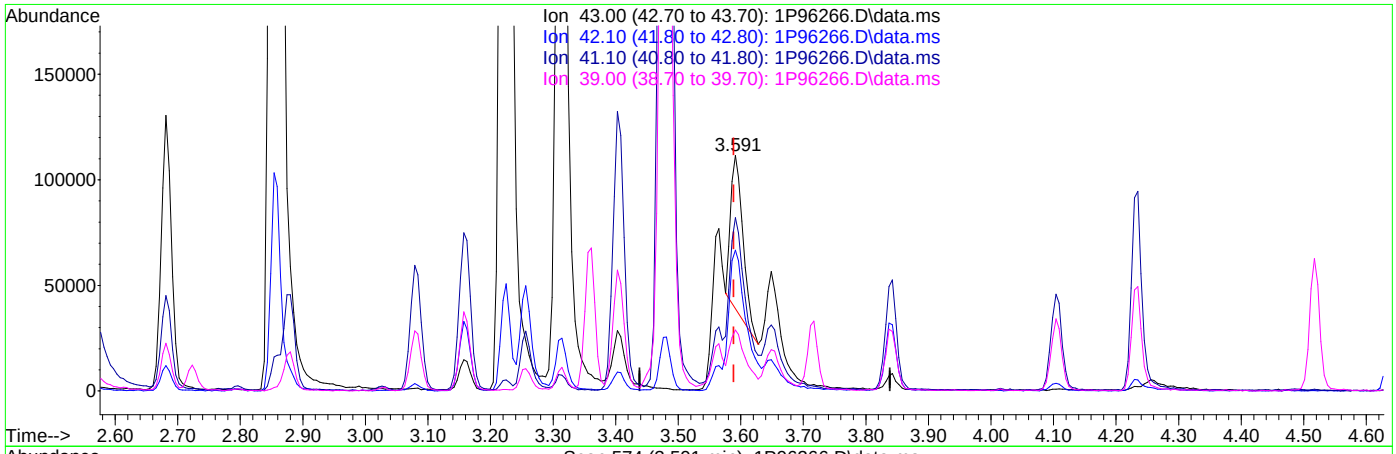
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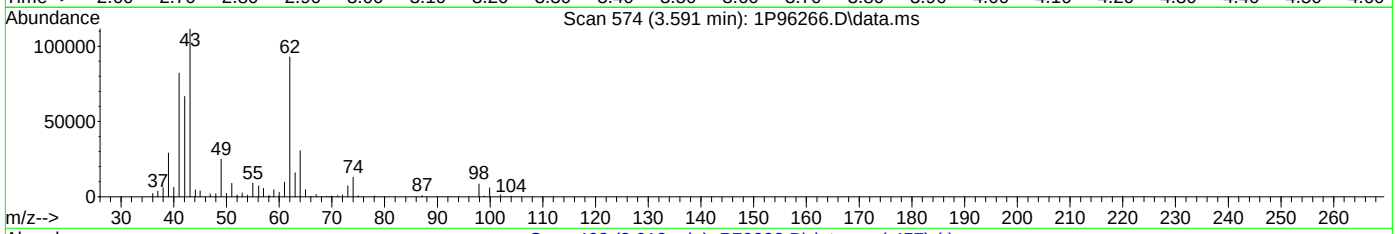
Ion	Exp%	Act%
116.90	100	100
118.90	97.80	95.00
120.90	31.00	30.51
81.90	30.20	28.91

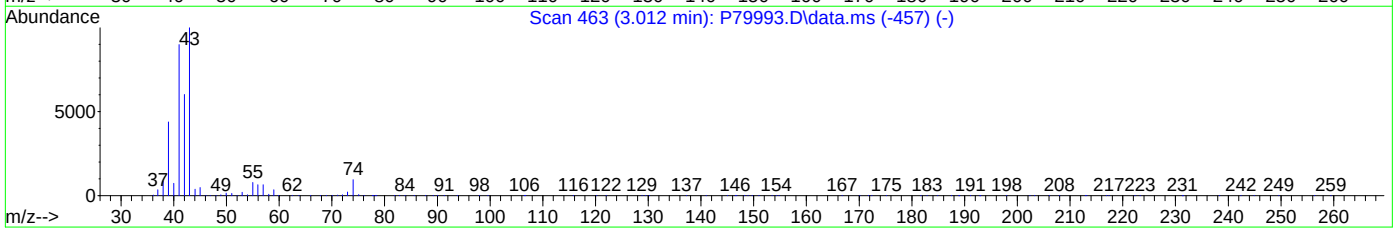
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96266.D
Acq On : 12 Dec 2022 9:10 pm
Operator : courtnef
Sample : FC1074-1MSD, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:23:14 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration







TIC: 1P96266.D\data.ms

(50) Isobutyl alcohol

3.591min (+0.003) 140.96ug/L

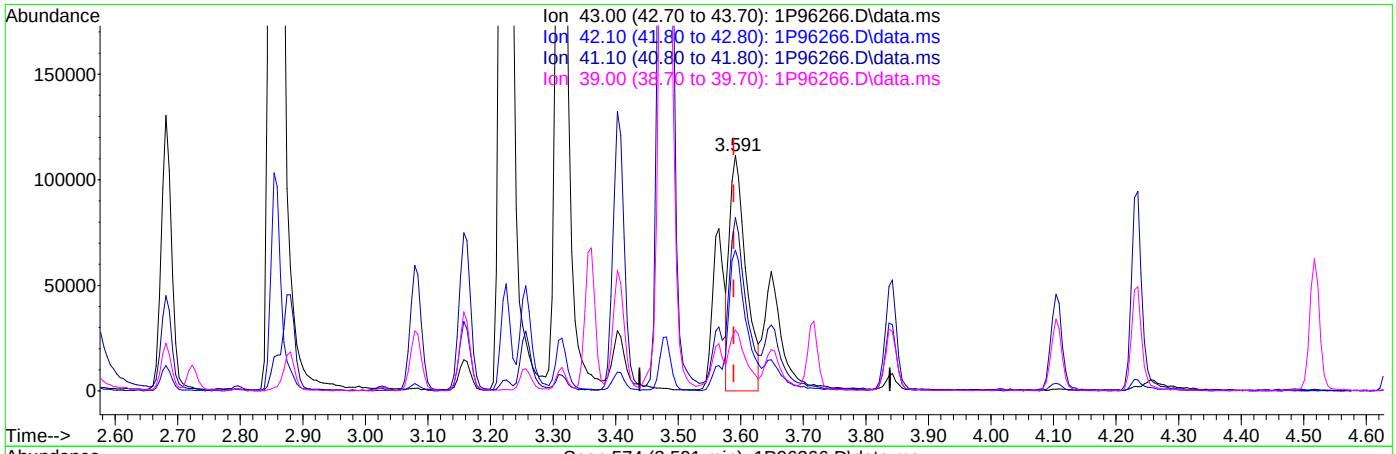
response 95551

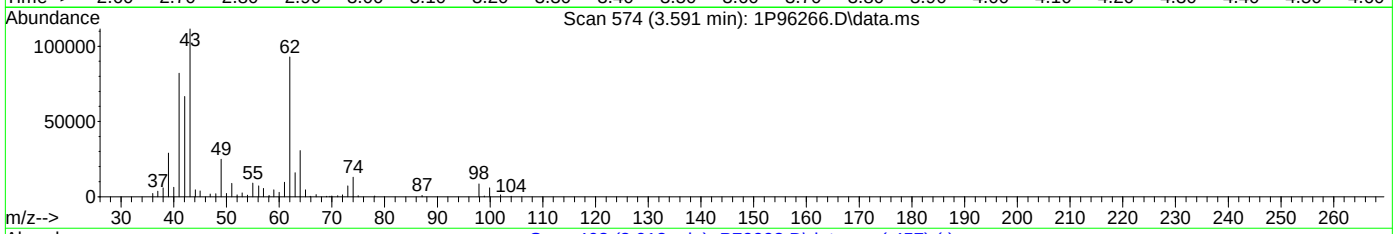
Ion	Exp%	Act%
43.00	100	100
42.10	59.60	60.14
41.10	71.40	72.93
39.00	26.20	25.99

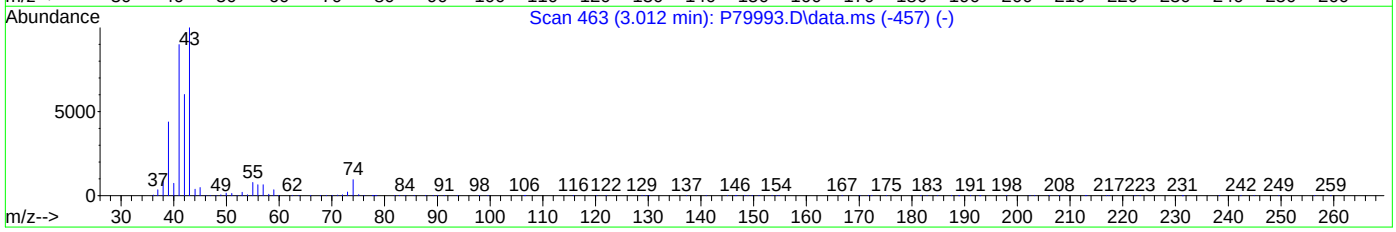
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96266.D
Acq On : 12 Dec 2022 9:10 pm
Operator : courtnef
Sample : FC1074-1MSD, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:23:14 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration







TIC: 1P96266.D\data.ms

(50) Isobutyl alcohol

3.591min (+0.003) 299.54ug/L m

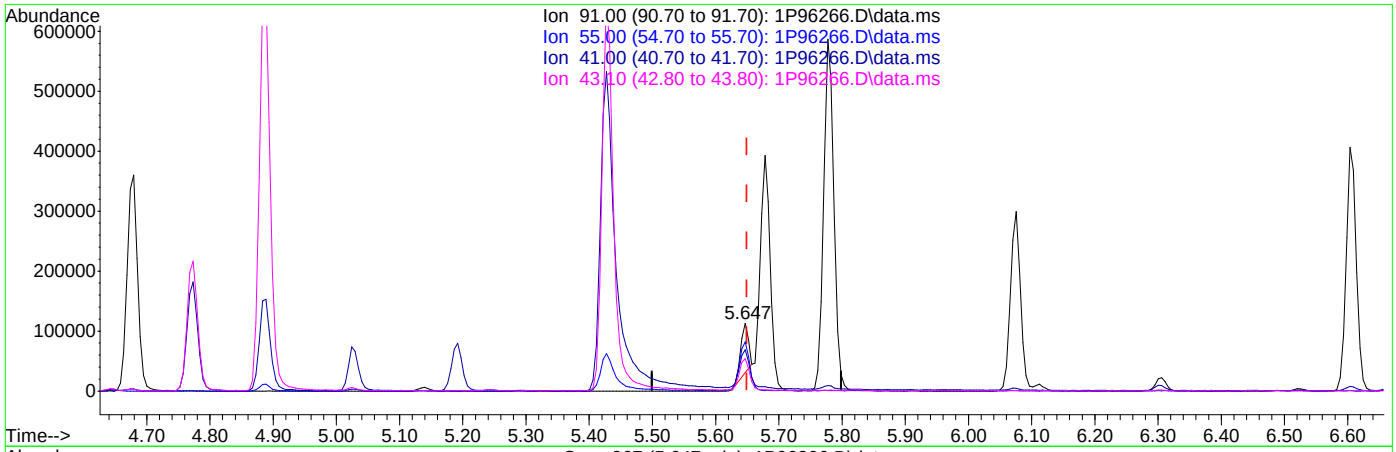
response 203046

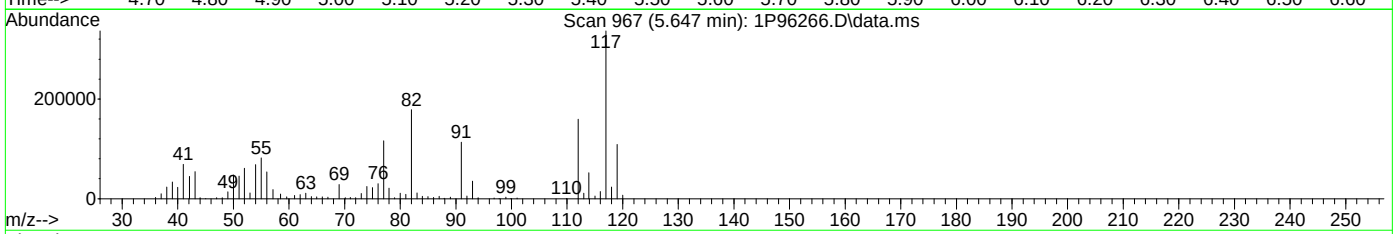
Ion	Exp%	Act%
43.00	100	100
42.10	59.60	59.72
41.10	71.40	73.62
39.00	26.20	25.88

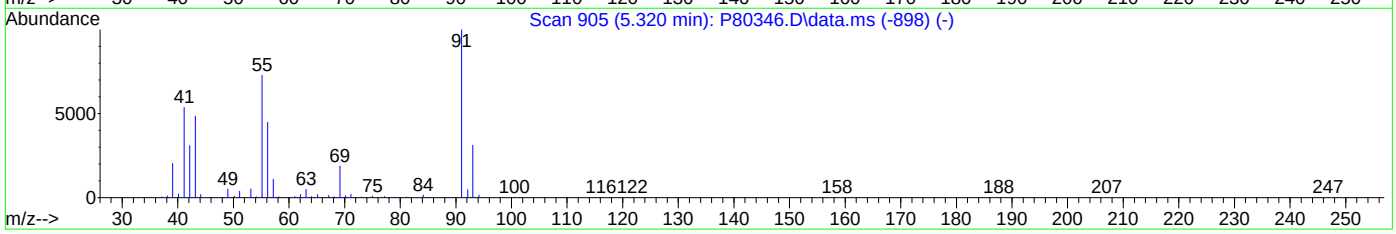
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96266.D
Acq On : 12 Dec 2022 9:10 pm
Operator : courtnef
Sample : FC1074-1MSD, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:23:14 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration







TIC: 1P96266.D\data.ms

(76) 1-Chlorohexane

5.647min (-0.002) 14.82ug/L

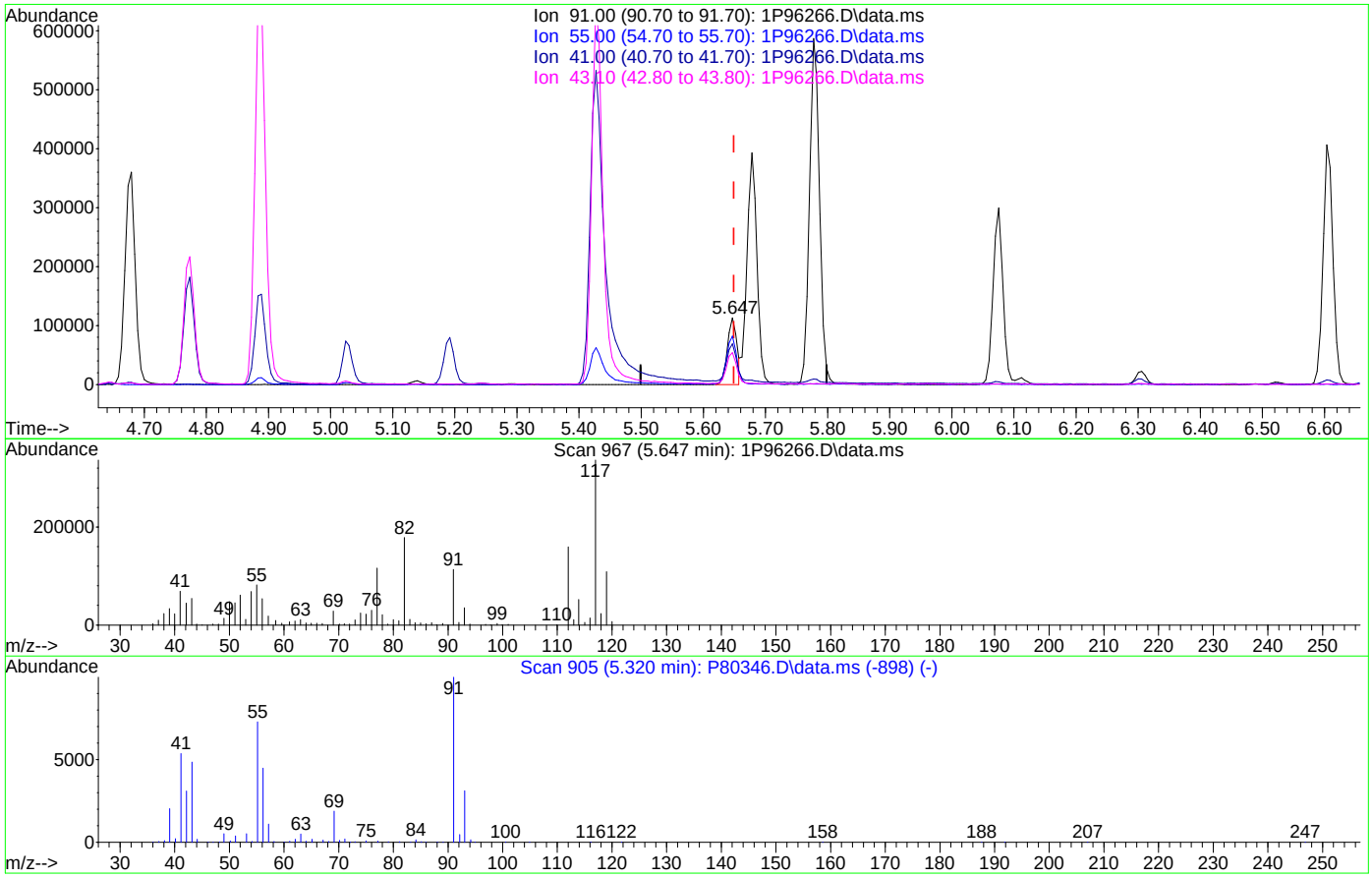
response 76009

Ion	Exp%	Act%
91.00	100	100
55.00	73.20	70.58
41.00	62.10	55.09
43.10	50.00	46.27

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96266.D
Acq On : 12 Dec 2022 9:10 pm
Operator : courtnef
Sample : FC1074-1MSD, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:23:14 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



TIC: 1P96266.D\data.ms

(76) 1-Chlorohexane

5.647min (-0.002) 23.33ug/L m

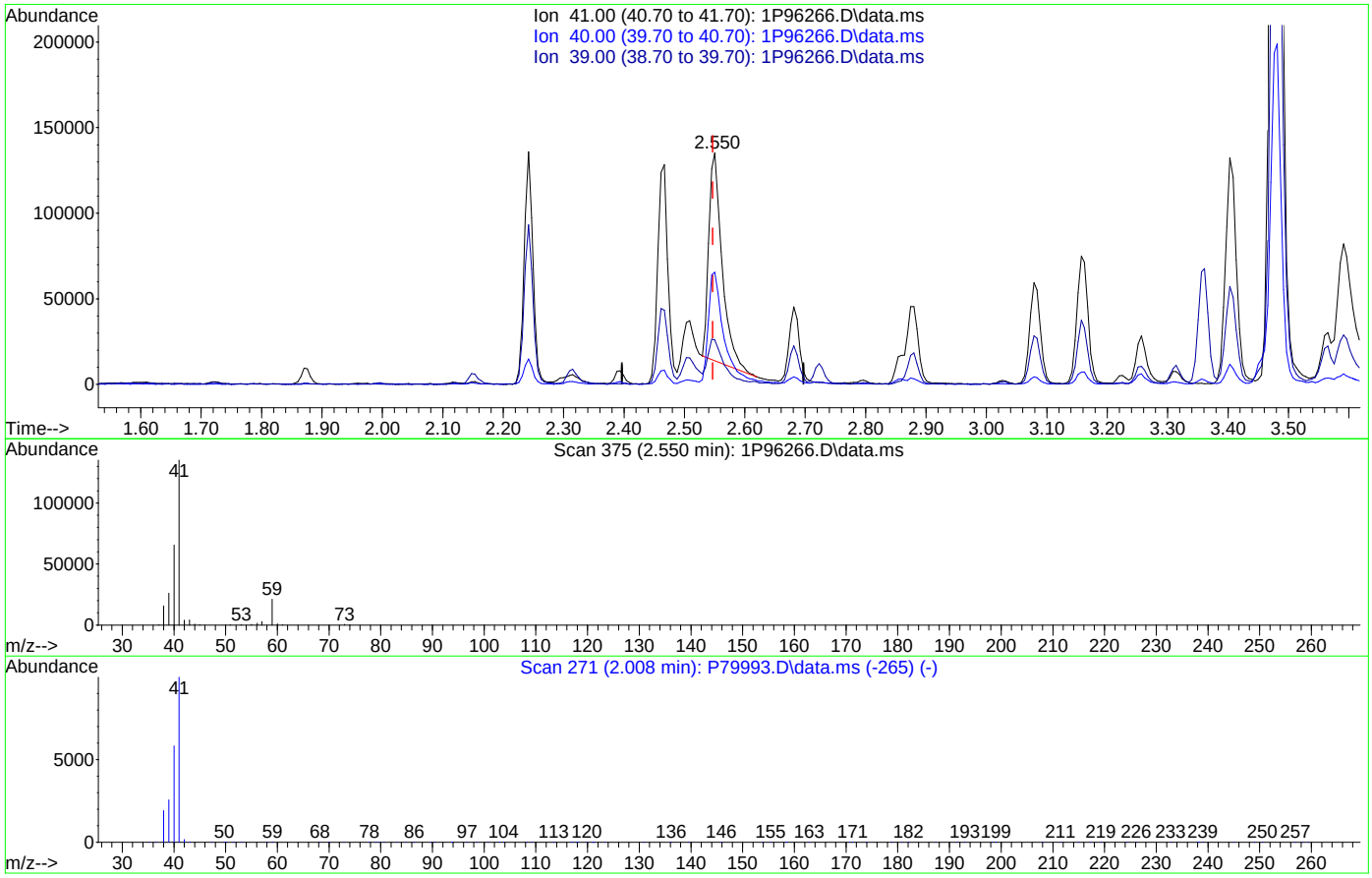
response 119775

Ion	Exp%	Act%
91.00	100	100
55.00	73.20	72.47
41.00	62.10	60.95
43.10	50.00	47.93

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96266.D
Acq On : 12 Dec 2022 9:10 pm
Operator : courtnef
Sample : FC1074-1MSD, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:23:48 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



TIC: 1P96266.D\data.ms

(25) Acetonitrile

2.550min (+0.003) 216.31ug/L

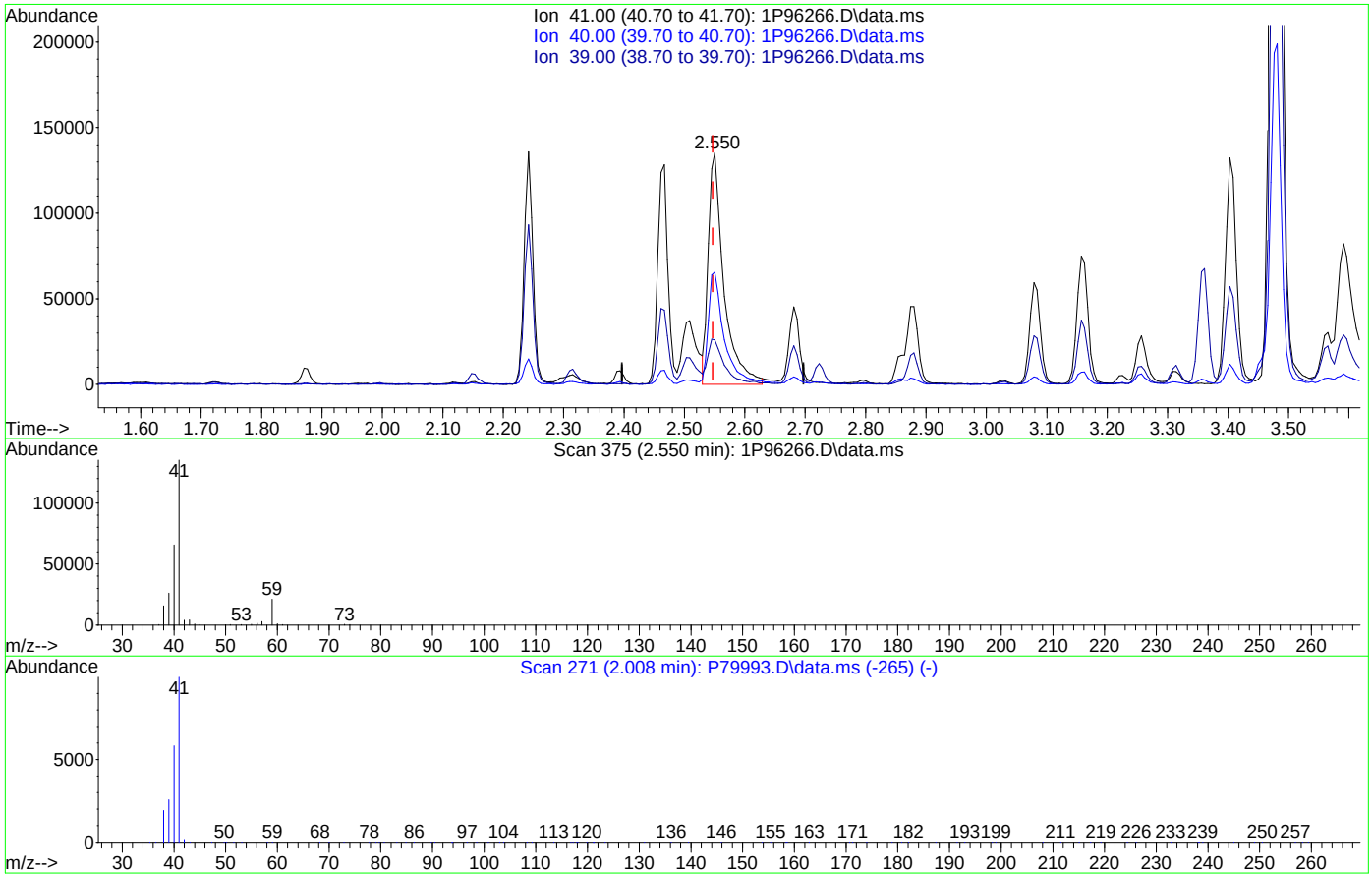
response 183088

Ion	Exp%	Act%
41.00	100	100
40.00	51.60	48.24
39.00	20.40	18.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96266.D
Acq On : 12 Dec 2022 9:10 pm
Operator : courtnef
Sample : FC1074-1MSD, 5X Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 21:23:48 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



TIC: 1P96266.D\data.ms

(25) Acetonitrile

2.550min (+0.003) 296.31ug/L m

response 242017

Ion	Exp%	Act%
41.00	100	100
40.00	51.60	48.50
39.00	20.40	19.26
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/14/22 01:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96267.D
Acq On : 12 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-21MSD, 10X
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 08:59:03 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.721	96	945493	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	659415	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	292805	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.266	113	205948	52.13	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.26%			
49) 1,2-Dichloroethane-d4	3.549	65	285885	50.29	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.58%			
63) Toluene-d8	4.647	98	923447	49.25	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.50%			
86) 4-Bromofluorobenzene	6.493	174	244520	54.48	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 108.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.127	85	91112	25.32	ug/L	99
3) Chloromethane	1.253	50	99400	24.57	ug/L	98
4) 1,3-butadiene	1.321	39	115132	27.29	ug/L	98
5) Vinyl Chloride	1.310	62	94667	21.46	ug/L	98
6) Bromomethane	1.509	94	21947	10.66	ug/L	98
7) Chloroethane	1.587	64	38803	30.06	ug/L	97
8) Trichlorofluoromethane	1.676	101	108814	21.93	ug/L	98
9) Ethyl Ether	1.880	59	73319	19.72	ug/L	97
10) Ethanol	1.969	45	48255	389.20	ug/L	96
11) 1,2-Dichlorotrifluoroe...	1.980	67	102511	24.02	ug/L	96
12) 1,1-Dichloroethene	1.985	61	139546	26.67	ug/L	98
13) Freon 113	2.016	101	81220	25.72	ug/L	96
14) Carbon Disulfide	2.006	76	232098	23.58	ug/L	96
15) Iodomethane	2.063	142	50878	21.74	ug/L	95
16) Acrolein	2.157	56	125004	108.40	ug/L	99
17) Allyl chloride	2.252	41	127402	26.69	ug/L	97
18) Methylene Chloride	2.304	49	118814	20.74	ug/L	97
19) Acetone	2.319	43	264901	102.21	ug/L	99
20) Methyl acetate	2.398	43	591147	107.68	ug/L	97
21) trans-1,2-Dichloroethene	2.403	61	131635	25.26	ug/L	97
22) Hexane	2.471	56	65087	22.85	ug/L	97
23) Methyl Tert Butyl Ether	2.471	73	294571	23.93	ug/L	94
24) Tert Butyl Alcohol	2.513	59	325913	253.52	ug/L	98
25) Acetonitrile	2.555	41	186604	198.94	ug/L	96
26) Di-isopropyl ether	2.686	45	276943	21.84	ug/L	99
27) Chloroprene	2.727	53	425498	22.68	ug/L	98
28) 1,1-Dichloroethane	2.733	63	174619	25.73	ug/L	97
29) Acrylonitrile	2.727	52	271110	109.85	ug/L	94
30) ETBE	2.884	59	275726	22.24	ug/L	96
31) Vinyl acetate	2.858	43	1180615	121.21	ug/L	100
32) cis-1,2-Dichloroethene	3.020	96	111698	29.63	ug/L	94
33) 2,2-Dichloropropane	3.083	77	131608	23.59	ug/L	98
34) Bromochloromethane	3.125	128	42803	27.75	ug/L	98
35) Cyclohexane	3.162	56	163681	26.76	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96267.D
Acq On : 12 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-21MSD, 10X
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 08:59:03 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Chloroform	3.167	83	175260	26.27	ug/L	99
37) Ethyl acetate	3.224	43	800659	116.27	ug/L	99
38) Tetrahydrofuran	3.261	42	65456	24.22	ug/L	96
40) Carbon Tetrachloride	3.266	117	127674m	30.68	ug/L	
41) 1,1,1-Trichloroethane	3.292	97	160979	29.13	ug/L	98
42) 2-Butanone	3.313	43	487571	117.04	ug/L	99
43) 1,1-Dichloropropene	3.360	75	137067	26.93	ug/L	91
44) tert-Butyl formate	3.407	59	266696	91.77	ug/L	97
45) Propionitrile	3.460	54	276318	246.37	ug/L	97
46) Methacrylonitrile	3.481	41	879035	225.58	ug/L	99
47) Benzene	3.496	78	405381	25.02	ug/L	83
48) TAME	3.564	73	296197	25.27	ug/L	98
50) Isobutyl alcohol	3.596	43	325384m	459.33	ug/L	
51) 1,2-Dichloroethane	3.590	62	139701	25.35	ug/L	97
52) Tert Amyl Alcohol	3.653	59	253108	246.93	ug/L	98
53) Trichloroethene	3.826	95	100863	25.84	ug/L	93
54) Methylcyclohexane	3.841	83	152687	28.01	ug/L	96
55) Dibromomethane	4.051	93	54383	24.84	ug/L	89
56) 1,2-Dichloropropane	4.108	63	96572	24.74	ug/L	96
57) Bromodichloromethane	4.145	83	123680	29.27	ug/L	99
58) Methyl methacrylate	4.234	41	106423	23.11	ug/L	98
59) 1,4-Dioxane	4.255	88	54101	555.30	ug/L	92
61) cis-1,3-Dichloropropene	4.521	75	145316	25.19	ug/L	93
64) Toluene	4.678	91	429130	25.19	ug/L	99
65) 2-Nitropropane	4.772	41	217616	122.80	ug/L	97
66) 4-Methyl-2-pentanone	4.887	43	850959	116.48	ug/L	99
67) trans-1,3-Dichloropropene	4.914	75	143285	28.19	ug/L	95
68) Tetrachloroethene	4.935	166	92728	27.51	ug/L	97
69) Ethyl methacrylate	5.029	69	126202	22.37	ug/L	90
70) 1,1,2-Trichloroethane	5.018	83	74668	24.90	ug/L	90
71) Dibromochloromethane	5.139	129	80427	27.39	ug/L	99
72) 1,3-Dichloropropane	5.191	76	156571	23.86	ug/L	95
73) 1,2-Dibromoethane	5.290	107	89075	25.87	ug/L	95
74) 3,3-dimethyl-1-butanol	5.426	57	1247118	1125.19	ug/L	98
75) 2-hexanone	5.431	43	877015	112.33	ug/L	95
76) 1-Chlorohexane	5.646	91	133394m	24.88	ug/L	
77) Ethylbenzene	5.677	91	457790	24.85	ug/L	98
78) Chlorobenzene	5.651	112	245552	24.86	ug/L	98
79) 1,1,1,2-Tetrachloroethane	5.693	131	86010	28.63	ug/L	92
80) m,p-Xylene	5.777	91	721222	49.92	ug/L	100
81) o-Xylene	6.075	91	363787	25.52	ug/L	98
82) Styrene	6.106	104	263371	25.75	ug/L	99
83) Bromoform	6.117	173	49338	31.48	ug/L	95
84) Isopropylbenzene	6.305	105	407591	25.09	ug/L	100
87) cis-1,4-Dichloro-2-butene	6.525	53	27934	15.81	ug/L	91
88) n-Propylbenzene	6.603	91	499710	24.44	ug/L	99
89) Bromobenzene	6.566	156	91791	24.99	ug/L	98
90) 1,1,2,2-Tetrachloroethane	6.629	83	142781	24.98	ug/L	99
91) 1,3,5-Trimethylbenzene	6.755	105	329865	24.25	ug/L	100
92) 2-Chlorotoluene	6.708	91	296914	24.23	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96267.D
Acq On : 12 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-21MSD, 10X
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 08:59:03 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

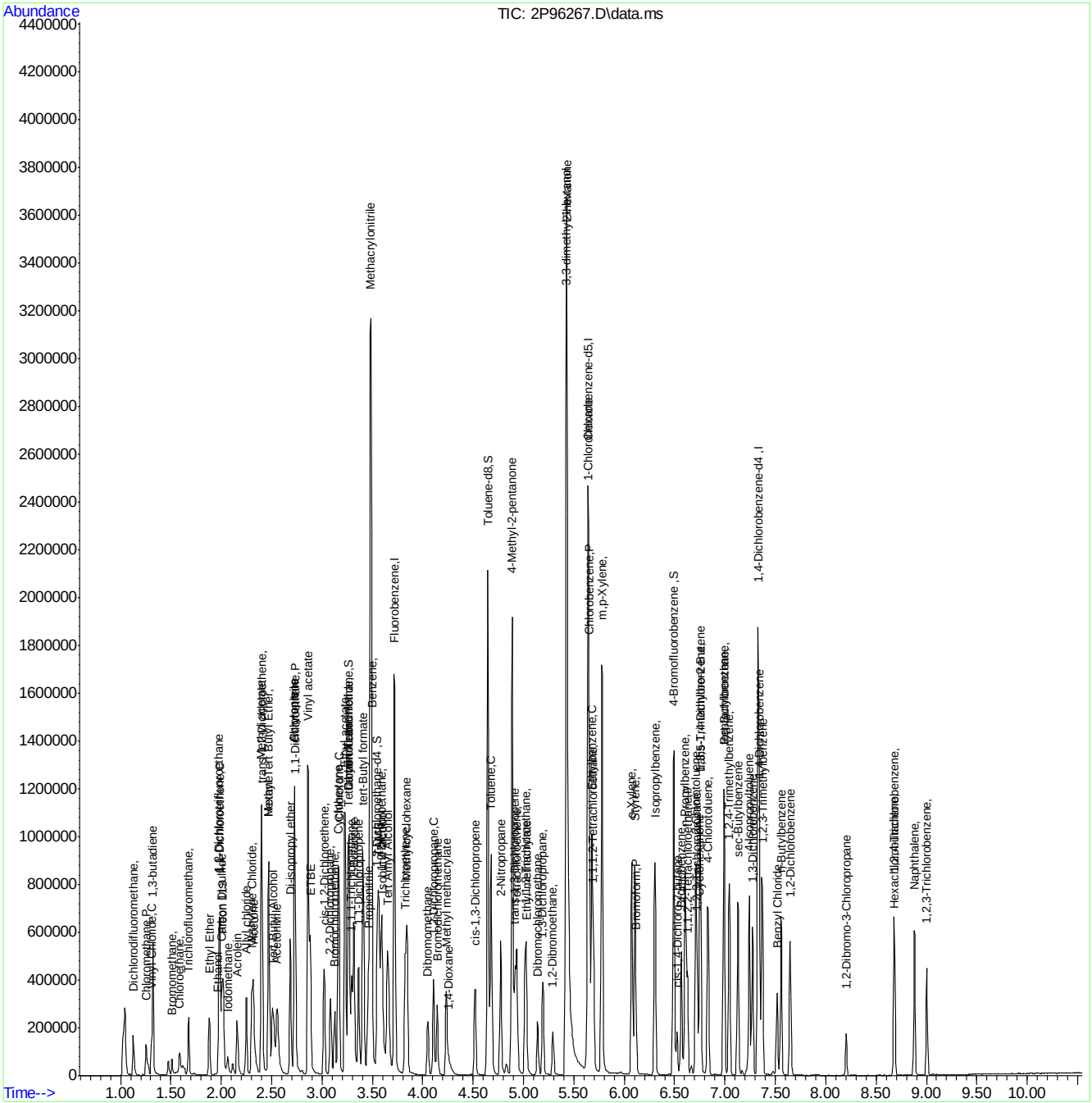
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	trans-1,4-Dichloro-2-B...	6.755	53	38809	18.66	ug/L		99
94)	1,2,3-Trichloropropane	6.723	110	45515	22.68	ug/L		90
95)	Cyclohexanone	6.744	55	41241	103.53	ug/L		92
96)	4-Chlorotoluene	6.828	91	317173	24.86	ug/L		99
97)	tert-Butylbenzene	6.990	91	190296	24.50	ug/L		100
99)	1,2,4-Trimethylbenzene	7.042	105	323513	24.73	ug/L		99
100)	Pentachloroethane	6.990	167	51751	31.35	ug/L	#	77
101)	sec-Butylbenzene	7.126	105	369779	24.76	ug/L		99
102)	4-Isopropyltoluene	7.241	119	313728	24.90	ug/L		98
103)	1,3-Dichlorobenzene	7.272	146	172405	25.69	ug/L		98
104)	1,2,3-Trimethylbenzene	7.372	105	334179	25.63	ug/L		97
105)	1,4-Dichlorobenzene	7.340	146	174114	24.74	ug/L		99
106)	n-Butylbenzene	7.555	92	139773	21.48	ug/L		99
107)	Benzyl Chloride	7.518	126	33547	20.54	ug/L	#	82
108)	1,2-Dichlorobenzene	7.649	146	157661	24.85	ug/L		96
109)	1,2-Dibromo-3-Chloropr...	8.203	75	31656	25.11	ug/L		86
110)	Hexachlorobutadiene	8.685	225	32318	28.73	ug/L		80
111)	1,2,4-Trichlorobenzene	8.679	180	79011	23.80	ug/L		95
112)	Naphthalene	8.883	128	301945	21.95	ug/L		100
113)	1,2,3-Trichlorobenzene	9.004	180	80229	25.87	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96267.D
Acq On : 12 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-21MSD, 10X
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 08:59:03 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: FC1200-21MSD
Lab FileID: 2P96267.D
Injection Time: 12/12/22 21:26

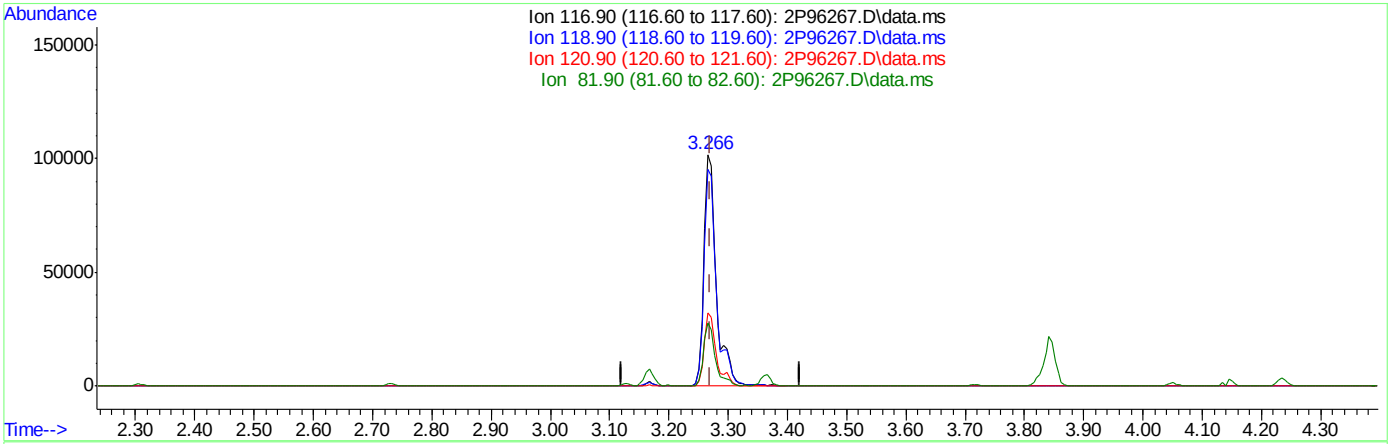
Method: SW846 8260D
Analyst approved: 12/13/22 08:58 Courtney Failla
Supervisor approved: 12/14/22 01:20 Jennifer Fereira

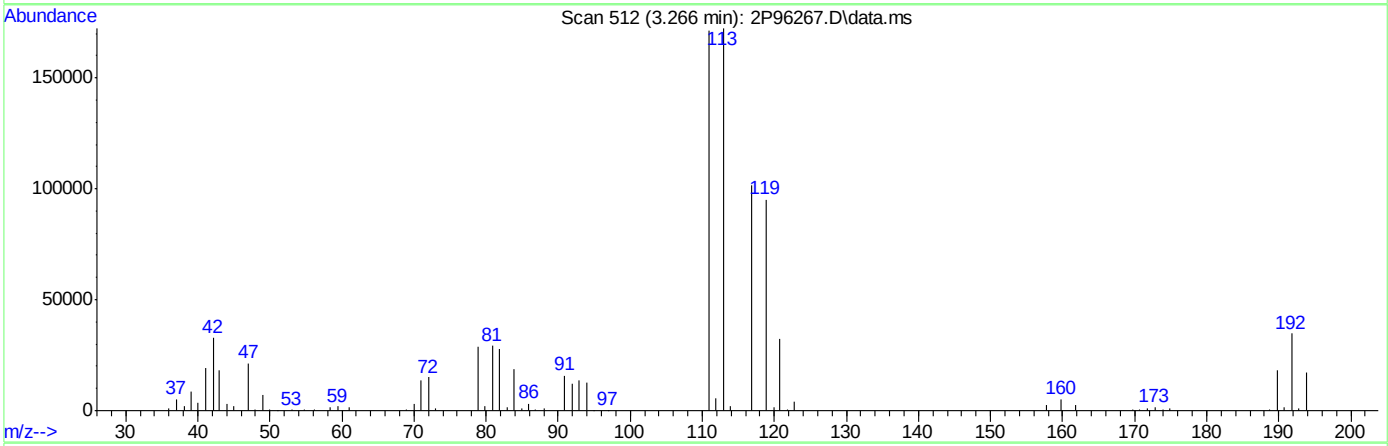
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.60	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96267.D
Acq On : 12 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-21MSD, 10X
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 08:19:40 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96267.D\data.ms

(40) Carbon Tetrachloride ( )

3.266min (-0.005) 35.35ug/L

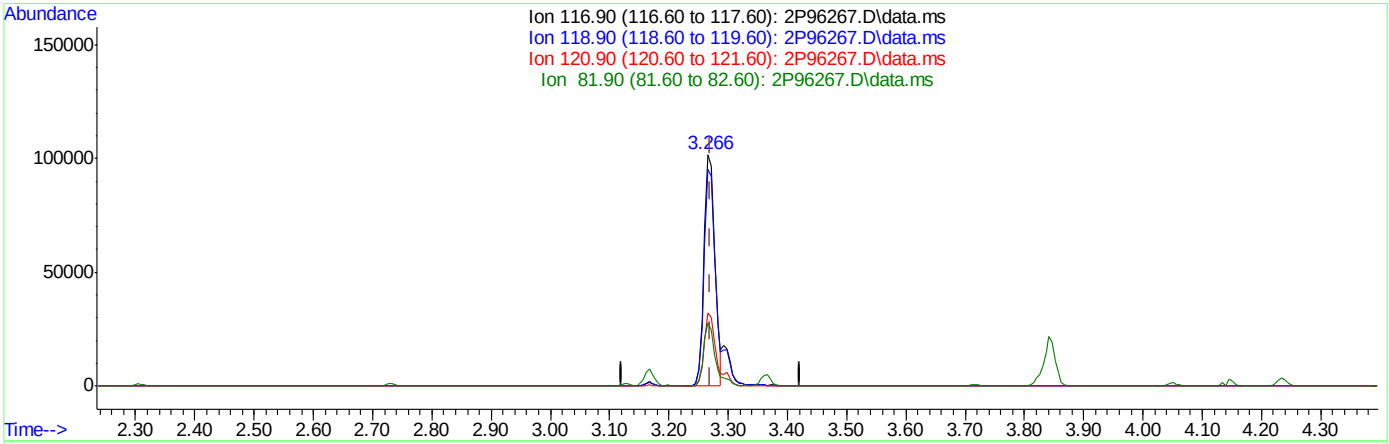
response 147143

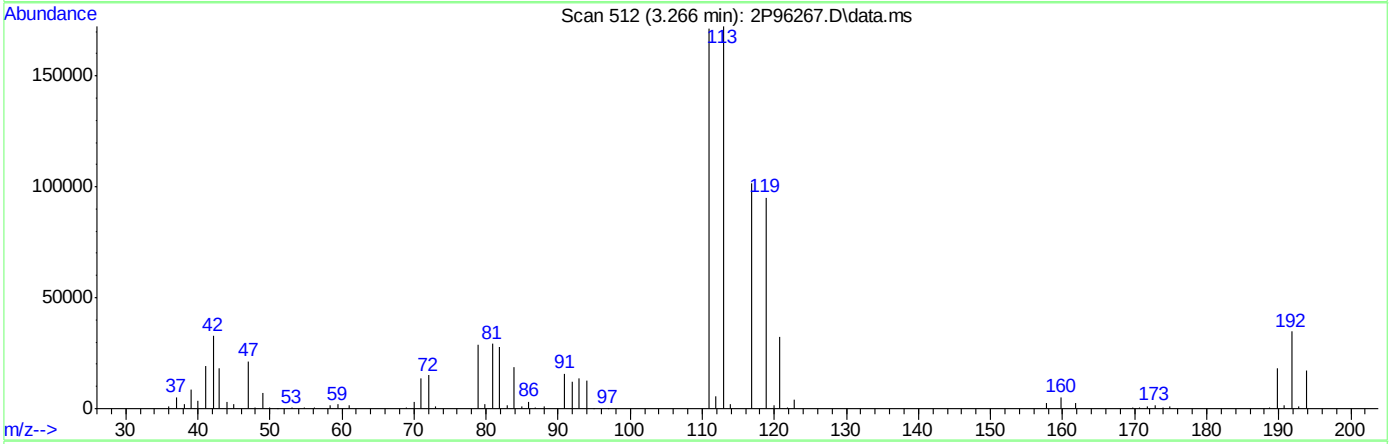
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	93.41
120.90	30.80	31.70
81.90	27.00	27.19

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96267.D
Acq On : 12 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-21MSD, 10X
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 08:19:40 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96267.D\data.ms

(40) Carbon Tetrachloride ( )

3.266min (-0.005) 30.68ug/L m

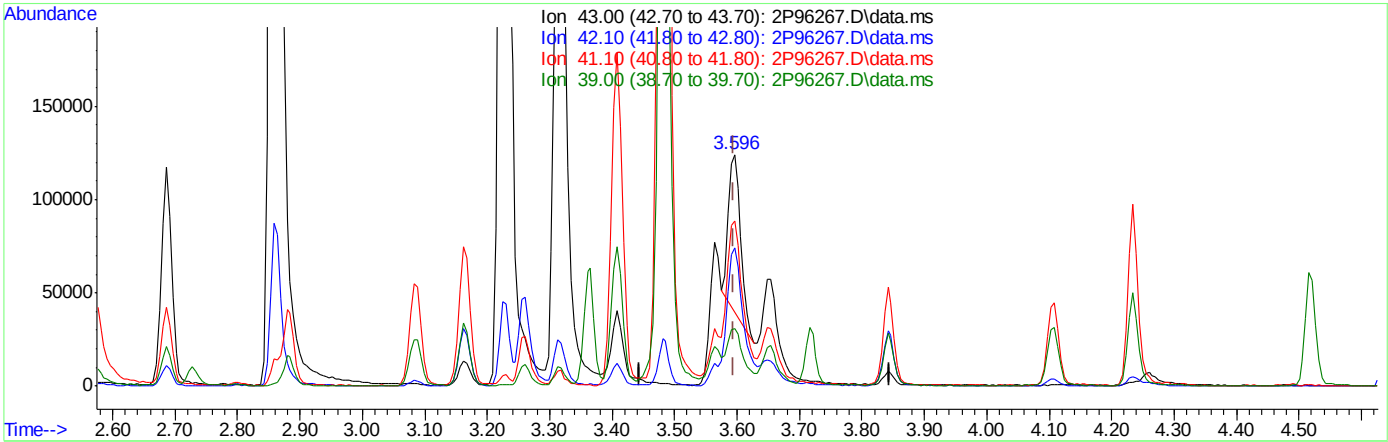
response 127674

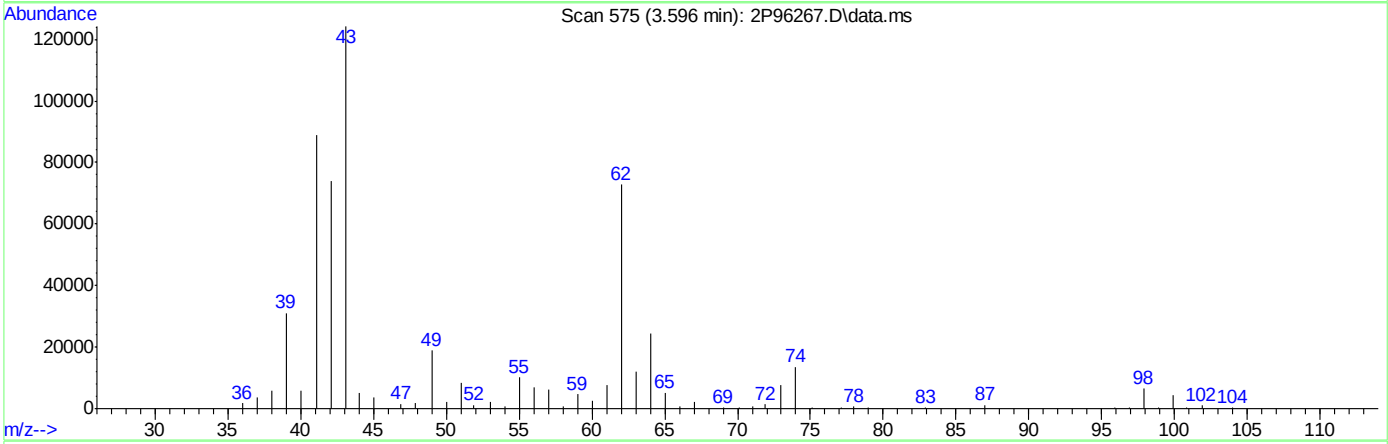
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	93.41
120.90	30.80	31.70
81.90	27.00	27.19

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96267.D
Acq On : 12 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-21MSD, 10X
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 08:19:40 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96267.D\data.ms

(50) Isobutyl alcohol

3.596min (+0.000) 157.24ug/L

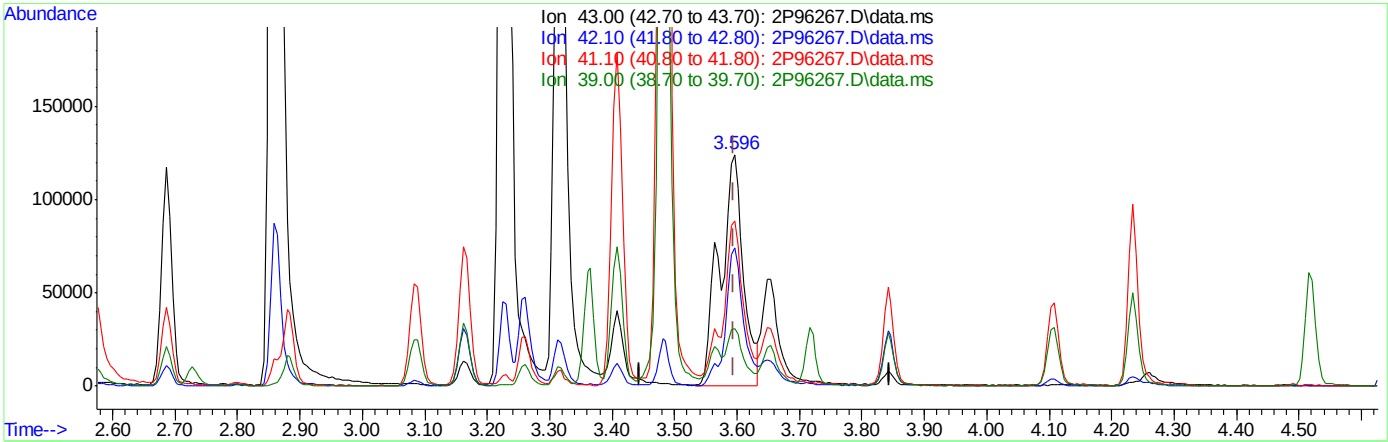
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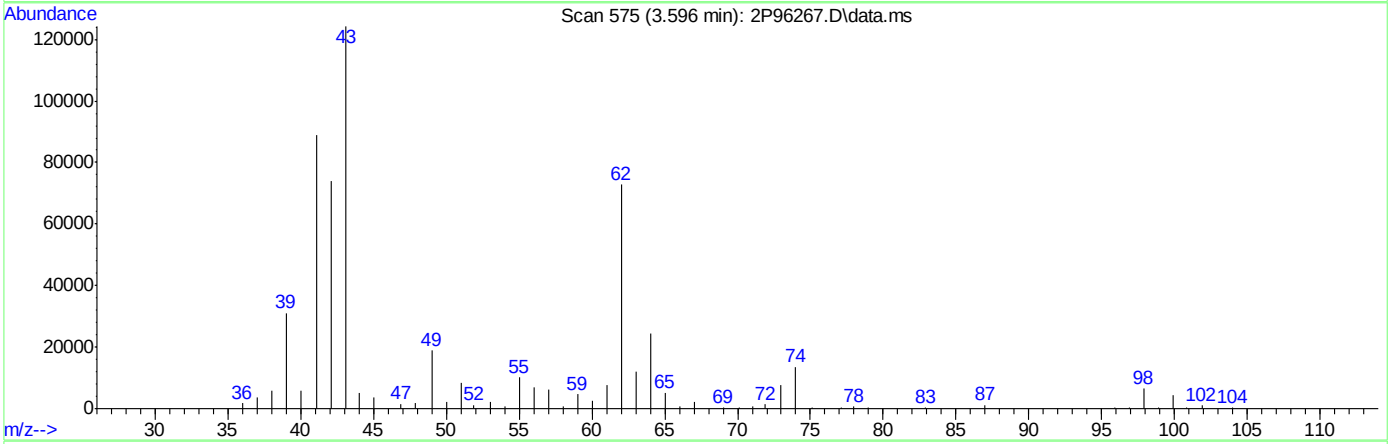
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	60.91
41.10	71.90	72.36
39.00	26.60	23.97

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96267.D
Acq On : 12 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-21MSD, 10X
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 08:19:40 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96267.D\data.ms

(50) Isobutyl alcohol

3.596min (+0.000) 459.33ug/L m

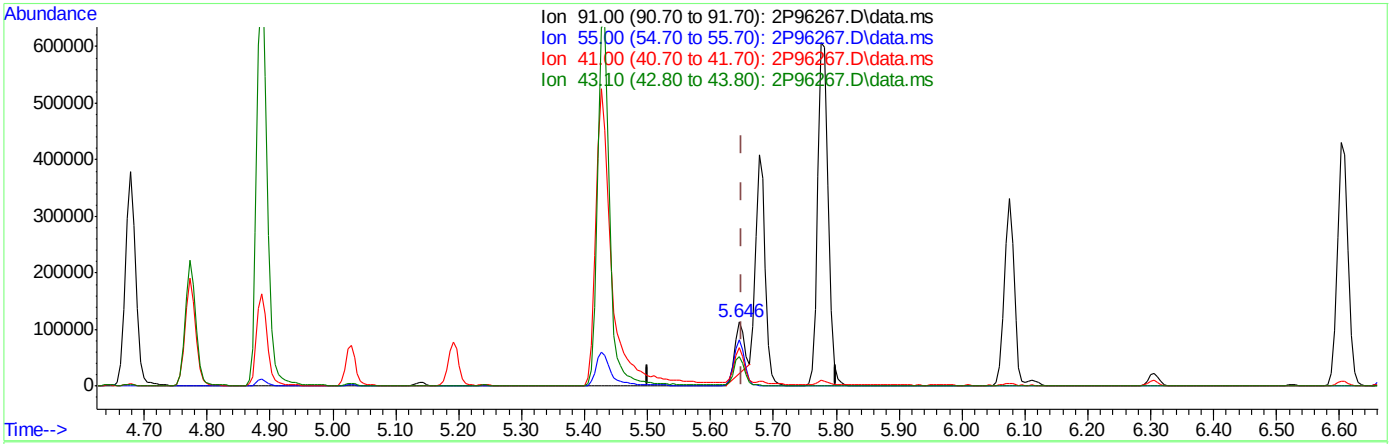
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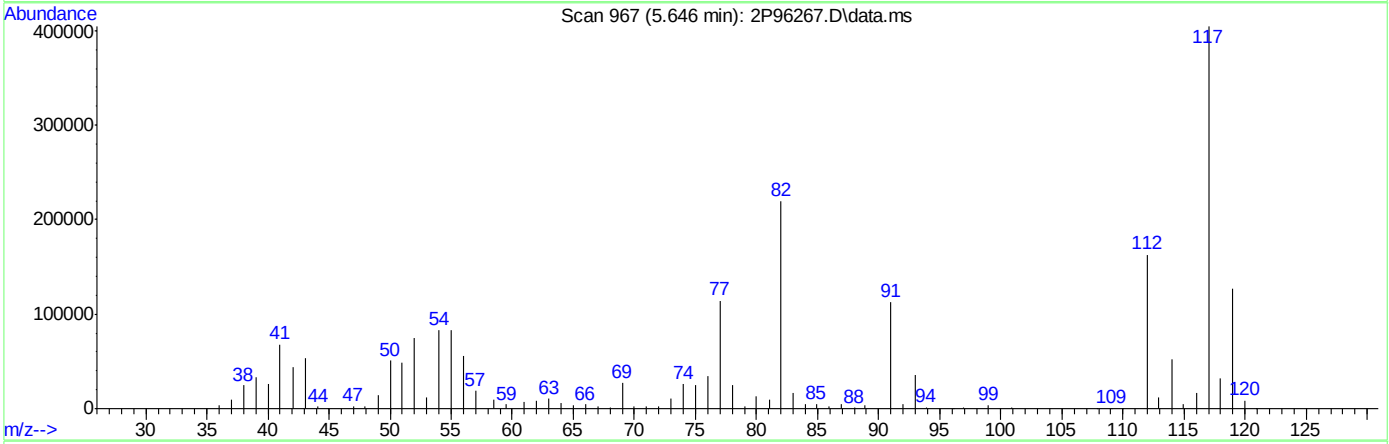
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	59.53
41.10	71.90	71.46
39.00	26.60	25.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96267.D
Acq On : 12 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-21MSD, 10X
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 08:19:40 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96267.D\data.ms

(76) 1-Chlorohexane

5.646min (-0.005) 16.71ug/L

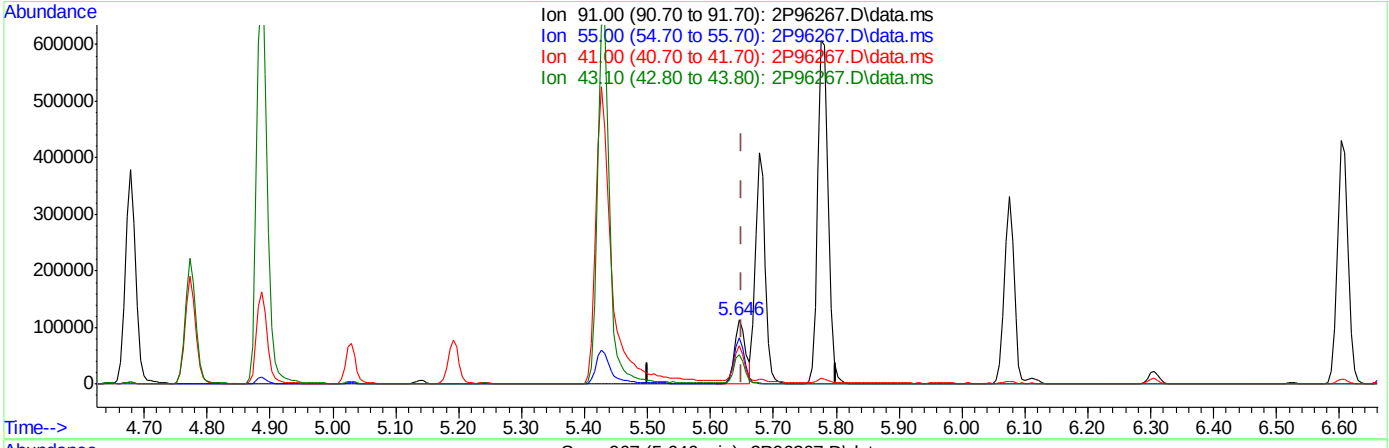
response 89583

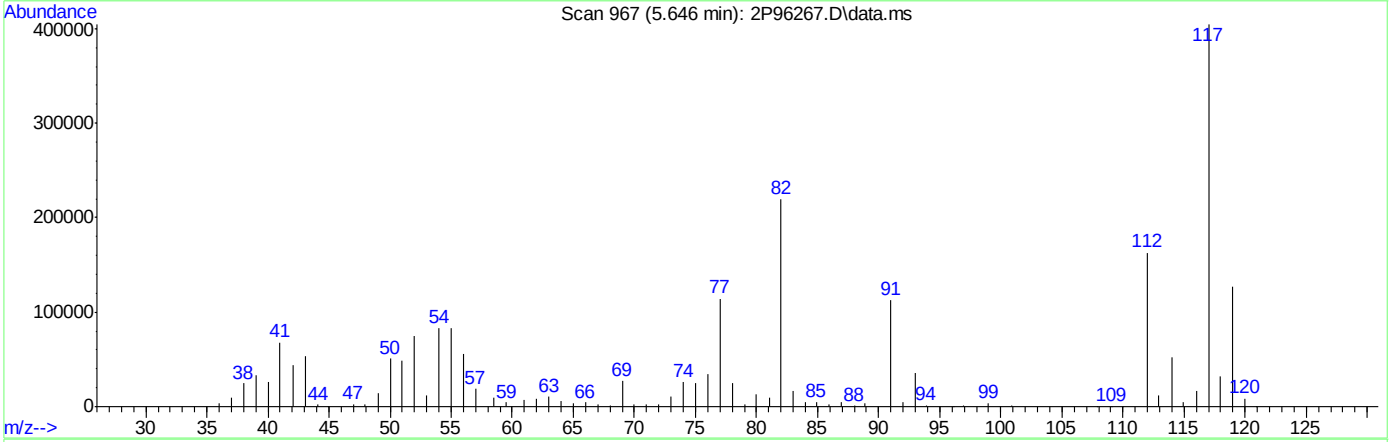
Ion	Exp%	Act%
91.00	100	100
55.00	73.60	71.29
41.00	60.90	55.38
43.10	49.80	45.30

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96267.D
Acq On : 12 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-21MSD, 10X
Misc : MS52988,V2P3657,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 08:19:40 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96267.D\data.ms

(76) 1-Chlorohexane

5.646min (-0.005) 24.88ug/L m

response 133394

Ion	Exp%	Act%
91.00	100	100
55.00	73.60	73.39
41.00	60.90	60.04
43.10	49.80	47.11

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/15/22 02:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42144.d
Acq On : 13 Dec 2022 6:59 pm
Operator : joannel
Sample : FC1200-25MS 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 13 23:28:36 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	212860	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	171962	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	93904	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	60565	44.34	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	88.68%		
49) 1,2-Dichloroethane-d4	3.474	65	67616	48.30	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery =	96.60%		
63) Toluene-d8	4.605	98	213845	49.44	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery =	98.88%		
86) 4-Bromofluorobenzene	6.514	174	78746	49.22	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	98.44%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.034	85	32023	21.44	ug/L	98
3) Chloromethane	1.157	50	26101	19.00	ug/L	97
4) 1,3-butadiene	1.219	39	30250	29.86	ug/L	97
5) Vinyl Chloride	1.203	62	30720	22.11	ug/L	99
6) Bromomethane	1.403	94	16256	17.45	ug/L	97
7) Chloroethane	1.480	64	9549	17.36	ug/L	94
8) Trichlorofluoromethane	1.573	101	52213	25.23	ug/L	99
9) Ethyl Ether	1.773	59	19505	19.65	ug/L	98
10) Ethanol	1.850	45	7842	392.42	ug/L	99
11) 1,2-Dichlorotrifluoroe...	1.873	67	32818	21.22	ug/L	98
12) 1,1-Dichloroethene	1.873	61	37325	20.39	ug/L	97
13) Freon 113	1.911	101	30388	23.60	ug/L	99
14) Carbon Disulfide	1.896	76	79584	21.87	ug/L	99
15) Iodomethane	1.957	142	28265	21.24	ug/L	99
16) Acrolein	2.050	56	24946	86.03	ug/L	98
17) Allyl chloride	2.142	41	33715	20.46	ug/L	96
18) Methylene Chloride	2.196	49	29456	17.81	ug/L	96
19) Acetone	2.211	43	41627	94.10	ug/L	100
20) Methyl acetate	2.296	43	107352	104.53	ug/L	98
21) trans-1,2-Dichloroethene	2.296	61	37604	20.72	ug/L	98
22) Hexane	2.365	56	24933	23.97	ug/L	97
23) Methyl Tert Butyl Ether	2.365	73	76869	20.36	ug/L	91
24) Acetonitrile	2.365	41	45194m	224.00	ug/L	
25) Tert Butyl Alcohol	2.396	59	48373	212.24	ug/L	99
26) Di-isopropyl ether	2.588	45	73315	20.98	ug/L	97
27) Chloroprene	2.627	53	95112	22.12	ug/L	98
28) 1,1-Dichloroethane	2.635	63	48704	21.21	ug/L	99
29) Acrylonitrile	2.627	52	55485	106.48	ug/L	98
30) ETBE	2.789	59	78841	20.96	ug/L	99
31) Vinyl acetate	2.765	43	286011	115.16	ug/L	99
32) cis-1,2-Dichloroethene	2.927	96	39430	27.24	ug/L	98
33) 2,2-Dichloropropane	2.996	77	39398	18.87	ug/L	99
34) Bromochloromethane	3.035	128	15488	22.70	ug/L	94
35) Cyclohexane	3.073	56	47720	23.45	ug/L	97
36) Chloroform	3.081	83	52220	20.81	ug/L	100
37) Ethyl acetate	3.143	43	147430	106.68	ug/L	100
38) Tetrahydrofuran	3.173	42	10157	21.21	ug/L	96
40) Carbon Tetrachloride	3.181	117	39803m	21.35	ug/L	
41) 1,1,1-Trichloroethane	3.212	97	45031	21.44	ug/L	99
42) 2-Butanone	3.235	43	72262	92.19	ug/L	99
43) 1,1-Dichloropropene	3.281	75	39038	21.54	ug/L	99
44) tert-Butyl formate	3.327	59	78253	70.01	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42144.d
Acq On : 13 Dec 2022 6:59 pm
Operator : joannel
Sample : FC1200-25MS 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 13 23:28:36 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	3.381	54	45793	201.44	ug/L		99
46)	Methacrylonitrile	3.404	41	173164	208.02	ug/L		99
47)	Benzene	3.412	78	112457	21.39	ug/L		76
48)	TAME	3.497	73	76953	21.24	ug/L		98
50)	1,2-Dichloroethane	3.512	62	38105	20.79	ug/L		100
51)	Isobutyl Alcohol	3.512	43	44961m	678.17	ug/L		
52)	Tert Amyl Alcohol	3.574	59	40230	216.23	ug/L		97
53)	Trichloroethene	3.758	95	32250	21.75	ug/L		99
54)	Methylcyclohexane	3.774	83	55972	25.53	ug/L		99
55)	Dibromomethane	3.989	93	18286	20.16	ug/L		96
56)	1,2-Dichloropropane	4.051	63	26887	20.25	ug/L		99
57)	Bromodichloromethane	4.089	83	36141	20.54	ug/L		98
58)	Methyl methacrylate	4.182	41	25816	21.25	ug/L		97
59)	1,4-Dioxane	4.205	88	9034	486.71	ug/L		98
60)	2-Chloroethyl vinyl ether	4.436	63	12188	13.54	ug/L		99
61)	cis-1,3-Dichloropropene	4.474	75	42379	19.96	ug/L		99
64)	Toluene	4.643	91	121139	20.97	ug/L		100
65)	2-Nitropropane	4.736	41	35449	92.41	ug/L		96
66)	4-Methyl-2-pentanone	4.859	43	150814	94.09	ug/L		99
67)	trans-1,3-Dichloropropene	4.890	75	39170	21.09	ug/L		99
68)	Tetrachloroethene	4.905	166	35465	22.34	ug/L		99
69)	Ethyl methacrylate	5.005	69	33126	19.13	ug/L		96
70)	1,1,2-Trichloroethane	4.990	83	21895	21.23	ug/L		97
71)	Dibromochloromethane	5.113	129	26889	19.57	ug/L		99
72)	1,3-Dichloropropane	5.174	76	41026	19.94	ug/L		99
73)	1,2-Dibromoethane	5.275	107	28442	21.16	ug/L		100
74)	3,3-Dimethyl-1-Butanol	5.405	57	215200	1045.36	ug/L		100
75)	2-hexanone	5.421	43	145431	96.63	ug/L		96
76)	1-Chlorohexane	5.644	91	43571m	23.15	ug/L		
77)	Ethylbenzene	5.675	91	133456m	21.68	ug/L		
78)	Chlorobenzene	5.644	112	80574	22.15	ug/L		99
79)	1,1,1,2-Tetrachloroethane	5.690	131	28238	21.77	ug/L		98
80)	m,p-Xylene	5.782	91	210682	43.48	ug/L		98
81)	o-Xylene	6.083	91	108835	21.74	ug/L		99
82)	Styrene	6.121	104	83566	21.64	ug/L		99
83)	Bromoform	6.121	173	17779	19.24	ug/L		98
84)	Isopropylbenzene	6.329	105	135064	22.89	ug/L		99
87)	cis-1,4-Dichloro-2-butene	6.552	53	8289	14.30	ug/L	#	91
88)	n-Propylbenzene	6.637	91	159812	21.86	ug/L		100
89)	Bromobenzene	6.591	156	33937	20.74	ug/L		97
90)	1,1,2,2-Tetrachloroethane	6.660	83	37662	20.80	ug/L		99
91)	1,3,5-Trimethylbenzene	6.791	105	113244	21.28	ug/L		98
92)	2-Chlorotoluene	6.745	91	90247	21.23	ug/L		99
93)	trans-1,4-Dichloro-2-B...	6.791	53	11667	18.37	ug/L		94
94)	1,2,3-Trichloropropane	6.752	110	10852	19.84	ug/L		89
95)	Cyclohexanone	6.768	55	6962	98.69	ug/L		98
96)	4-Chlorotoluene	6.868	91	93999	21.17	ug/L		98
97)	tert-Butylbenzene	7.037	91	64959	21.57	ug/L		98
98)	1,2,4-Trimethylbenzene	7.091	105	110575	21.73	ug/L		98
99)	Pentachloroethane	7.037	167	18007	21.29	ug/L	#	79
100)	sec-Butylbenzene	7.183	105	148369	23.72	ug/L		99
101)	4-Isopropyltoluene	7.299	119	130195	23.60	ug/L		99
102)	1,3-Dichlorobenzene	7.322	146	64873	22.01	ug/L		97
103)	1,2,3-Trimethylbenzene	7.430	105	112787	23.01	ug/L		98
104)	1,4-Dichlorobenzene	7.391	146	65296	21.59	ug/L		95
105)	n-Butylbenzene	7.630	92	60116	21.65	ug/L		98
106)	Benzyl Chloride	7.583	126	13074	18.52	ug/L		94
107)	1,2-Dichlorobenzene	7.714	146	59194	21.58	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42144.d
Acq On : 13 Dec 2022 6:59 pm
Operator : joannel
Sample : FC1200-25MS 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 13 23:28:36 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

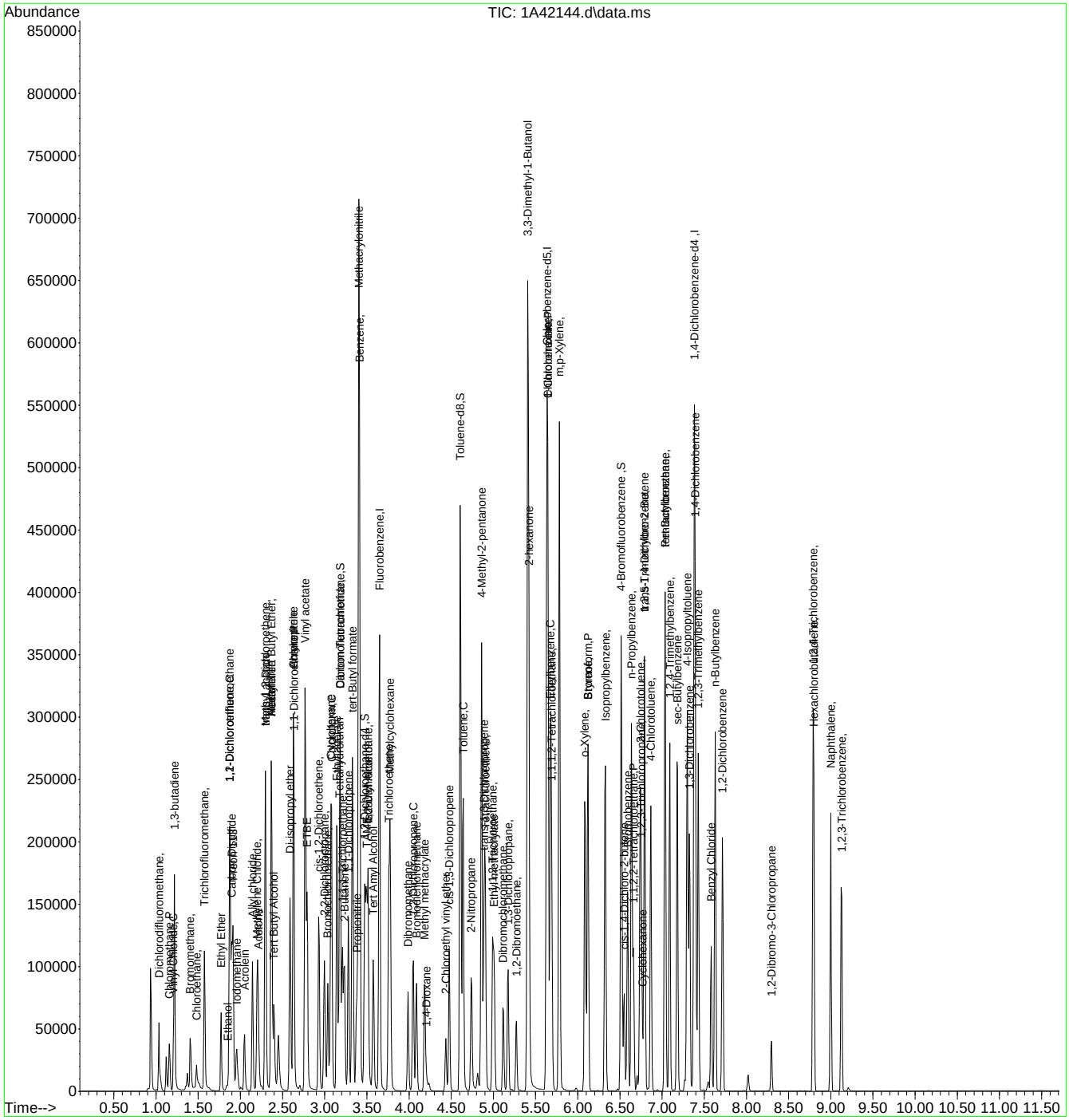
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	8.299	75	6675	18.94	ug/L	98
109) Hexachlorobutadiene	8.799	225	23108	22.70	ug/L	98
110) 1,2,4-Trichlorobenzene	8.792	180	40273	21.17	ug/L	99
111) Naphthalene	9.000	128	105688	20.24	ug/L	100
112) 1,2,3-Trichlorobenzene	9.130	180	37231	20.71	ug/L	97

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

Quantitation Report (QT Reviewed)

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Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: FC1200-25MS
Lab FileID: 1A42144.D
Injection Time: 12/13/22 18:59

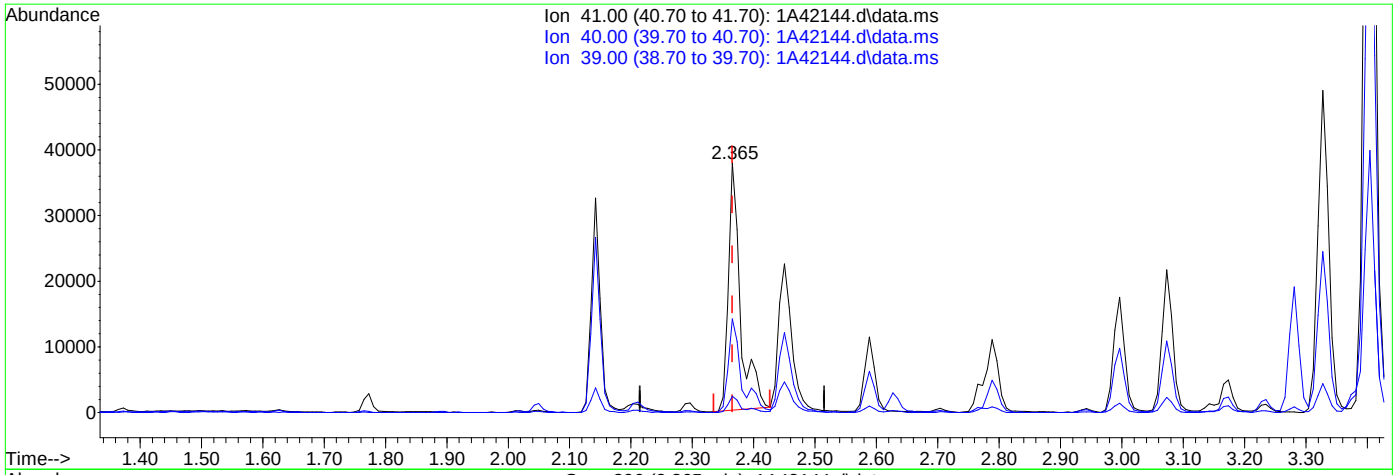
Method: SW846 8260D
Analyst approved: 12/13/22 23:37 Celine Celis
Supervisor approved: 12/15/22 02:21 Jennifer Fereira

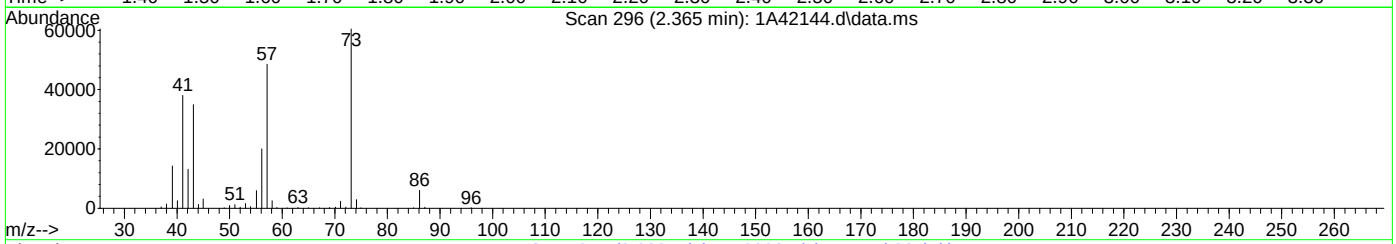
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.37	Overlapping peak
Carbon Tetrachloride	56-23-5		3.18	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Overlapping peak
1-Chlorohexane	544-10-5		5.64	Overlapping peak
Ethylbenzene	100-41-4		5.67	Overlapping peak

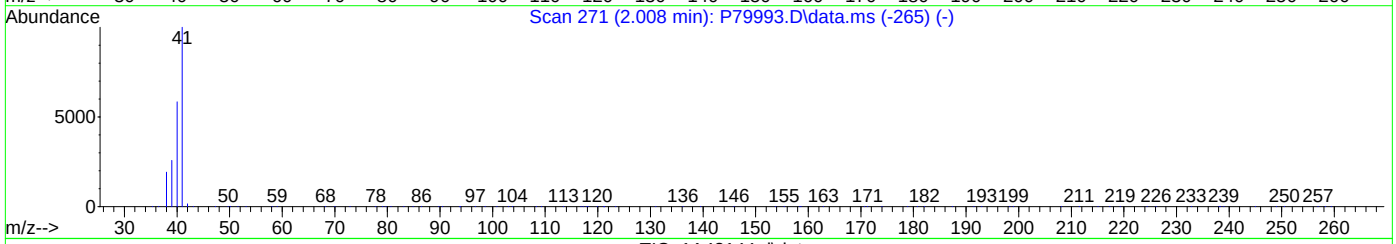
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42144.d
Acq On : 13 Dec 2022 6:59 pm
Operator : joannel
Sample : FC1200-25MS 10X
Misc : MS53004,V1A1697,,,,,10
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Quant Time: Dec 13 22:49:55 2022
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Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42144.d\data.ms

(24) Acetonitrile

2.365min (+0.000) 254.10ug/L

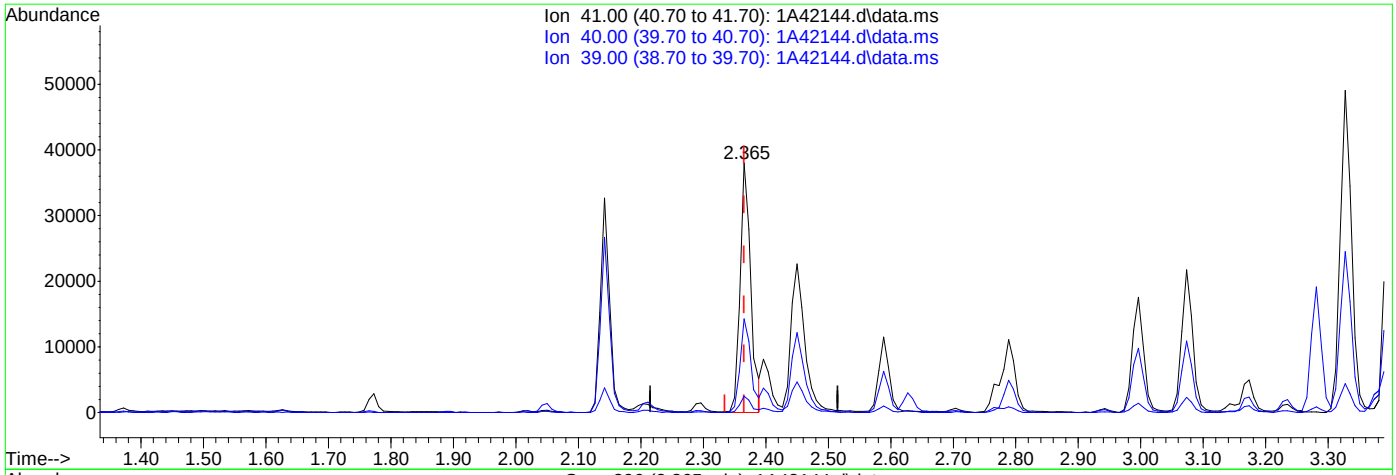
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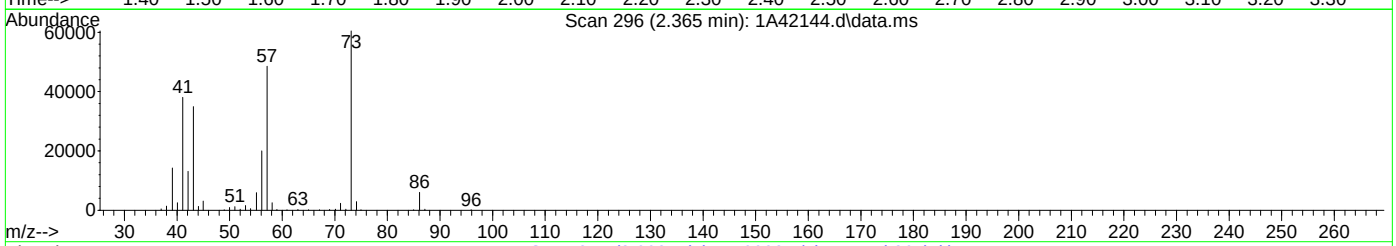
Ion	Exp%	Act%
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40.00	6.40	6.57
39.00	37.60	37.68
0.00	0.00	0.00

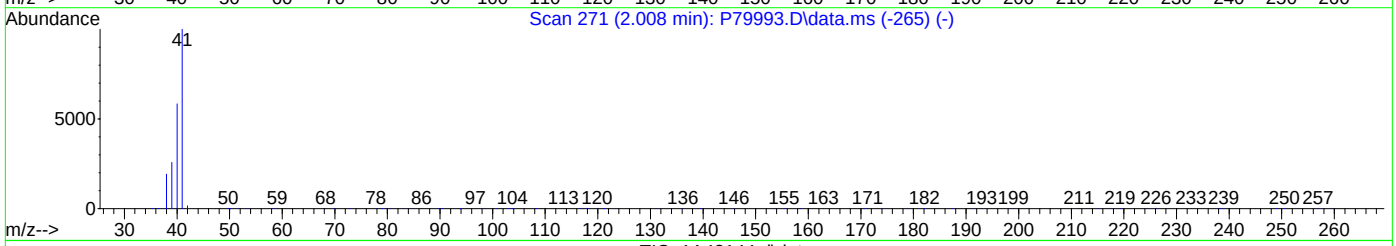
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42144.d
Acq On : 13 Dec 2022 6:59 pm
Operator : joannel
Sample : FC1200-25MS 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 13 22:49:55 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42144.d\data.ms

(24) Acetonitrile

2.365min (+0.000) 224.00ug/L m

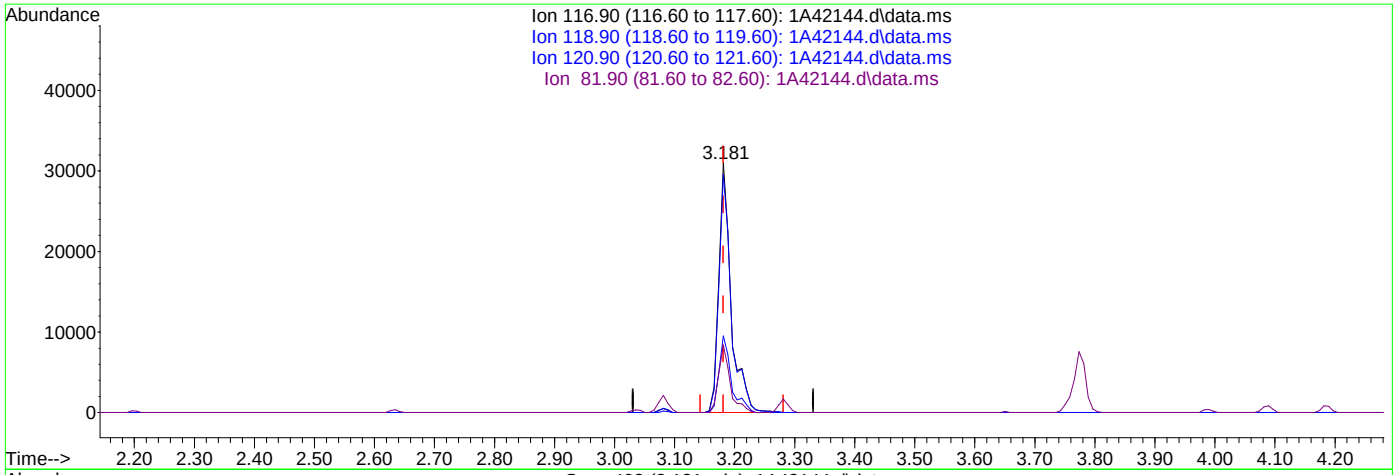
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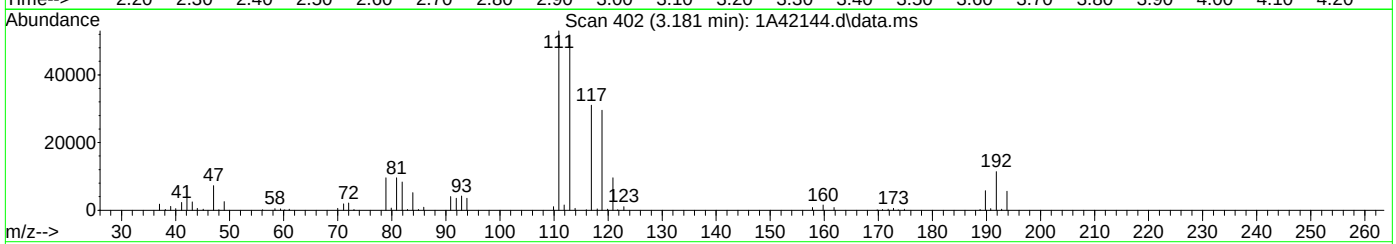
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.55
39.00	37.60	37.55
0.00	0.00	0.00

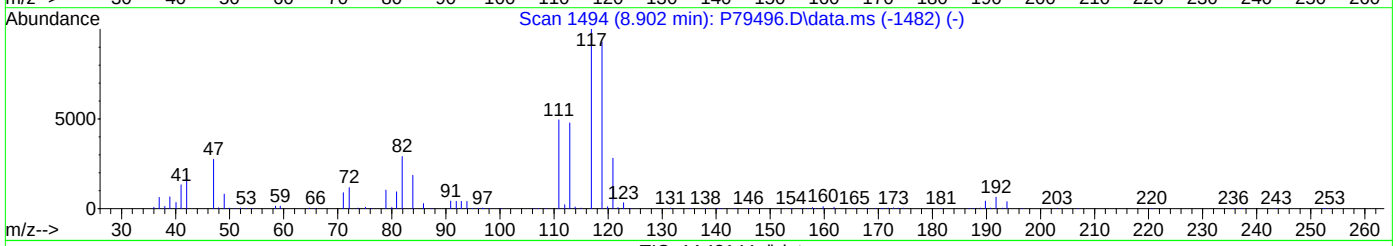
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
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Response via : Initial Calibration







TIC: 1A42144.d\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 23.94ug/L

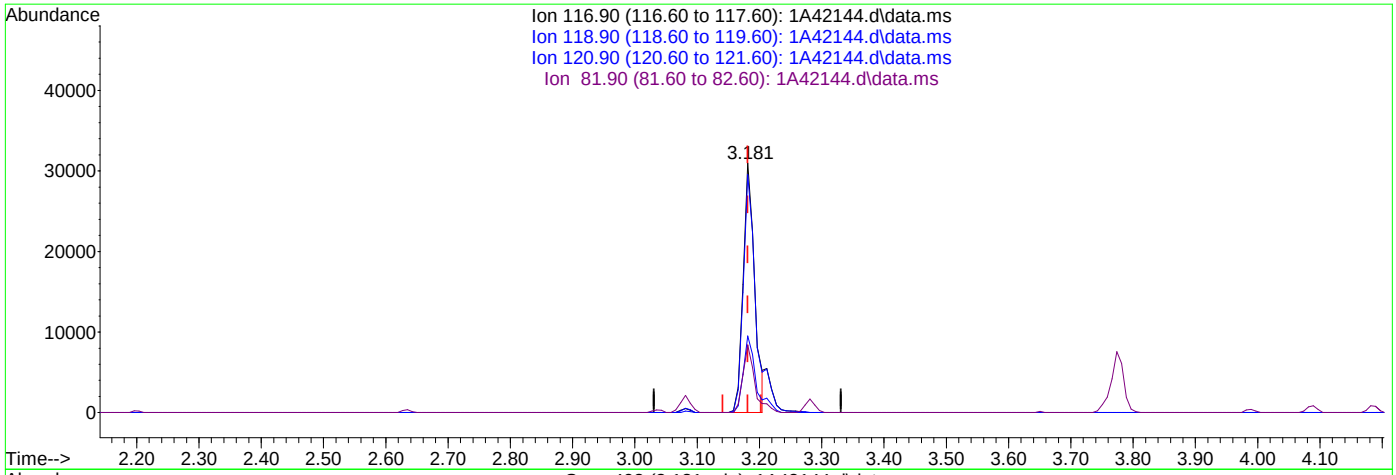
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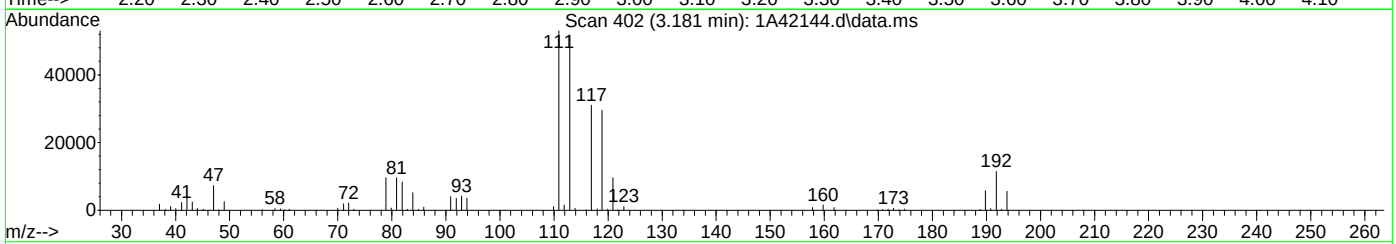
Ion	Exp%	Act%
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118.90	95.70	95.33
120.90	30.30	30.75
81.90	26.50	26.99

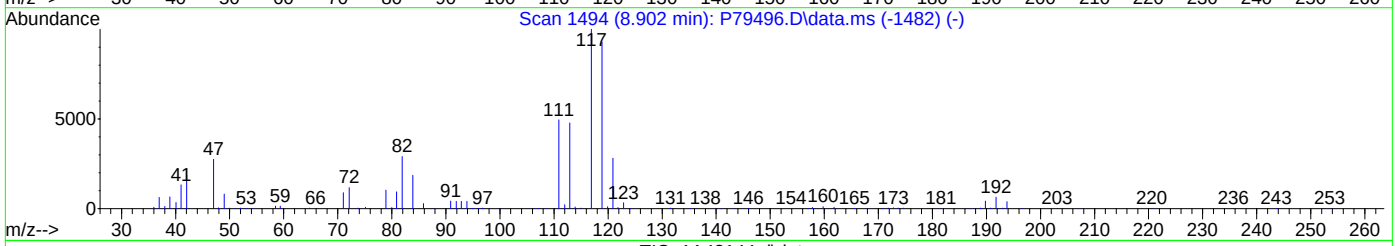
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42144.d
Acq On : 13 Dec 2022 6:59 pm
Operator : joannel
Sample : FC1200-25MS 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 13 22:49:55 2022
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Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42144.d\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 21.35ug/L m

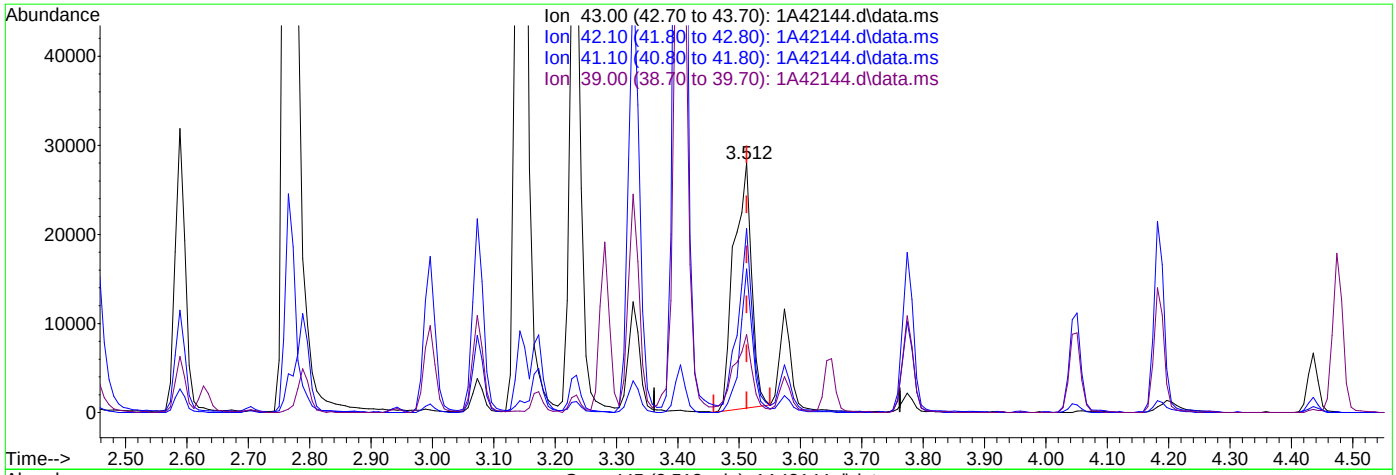
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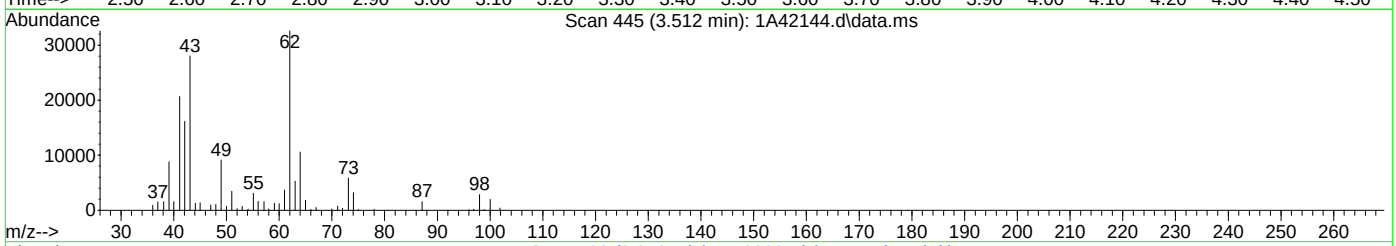
Ion	Exp%	Act%
116.90	100	100
118.90	95.70	95.33
120.90	30.30	30.75
81.90	26.50	26.99

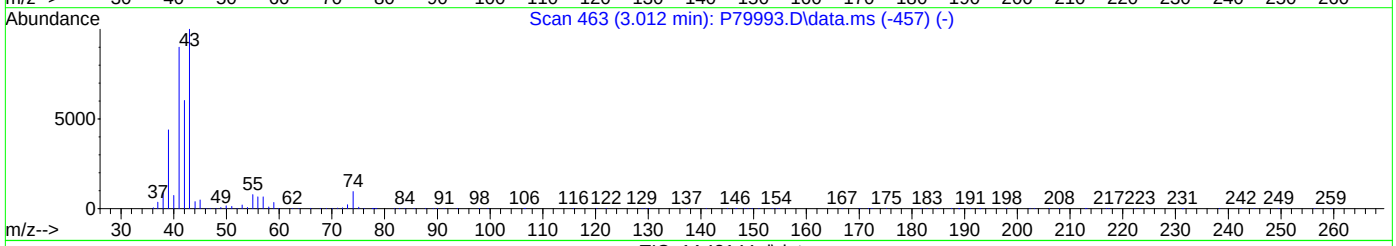
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42144.d
Acq On : 13 Dec 2022 6:59 pm
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Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42144.d\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 823.56ug/L

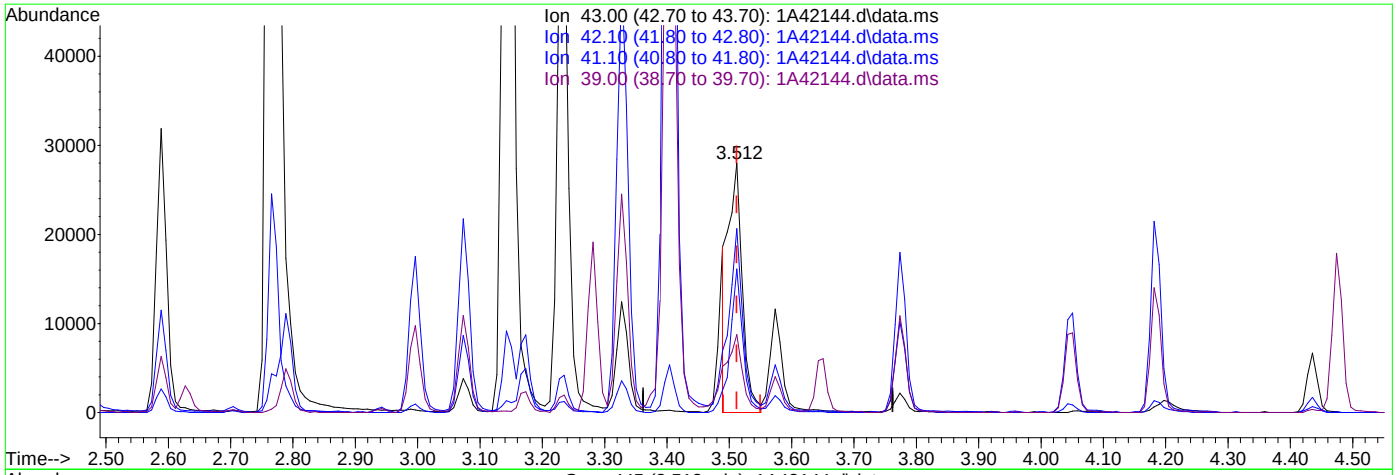
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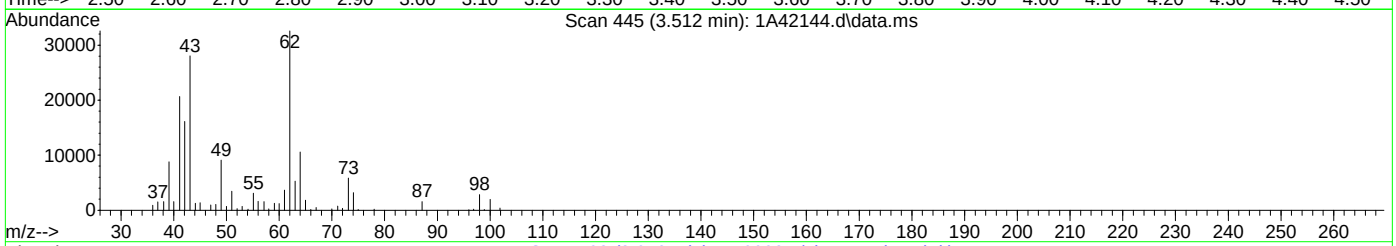
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	57.56
41.10	71.70	70.77
39.00	29.20	29.86

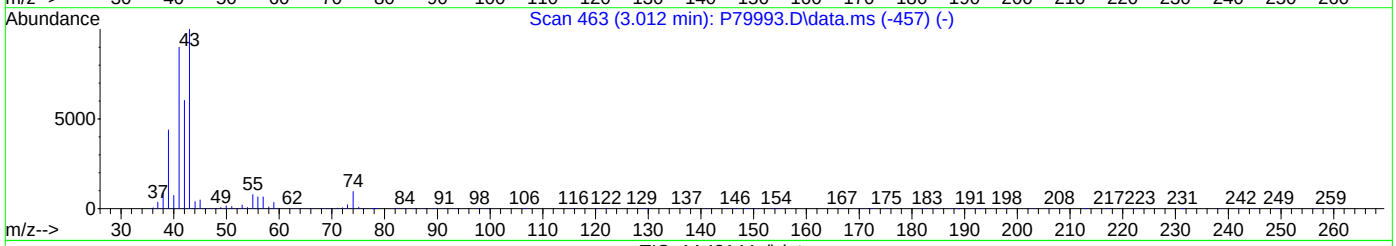
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42144.d
Acq On : 13 Dec 2022 6:59 pm
Operator : joannel
Sample : FC1200-25MS 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 13 22:49:55 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42144.d\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 678.17ug/L m

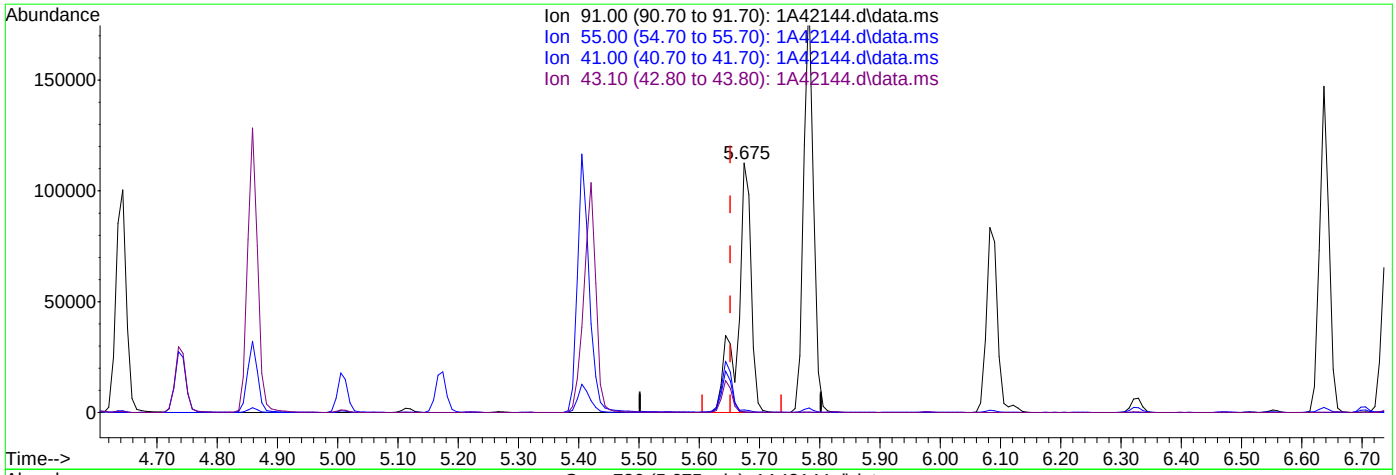
response 44961

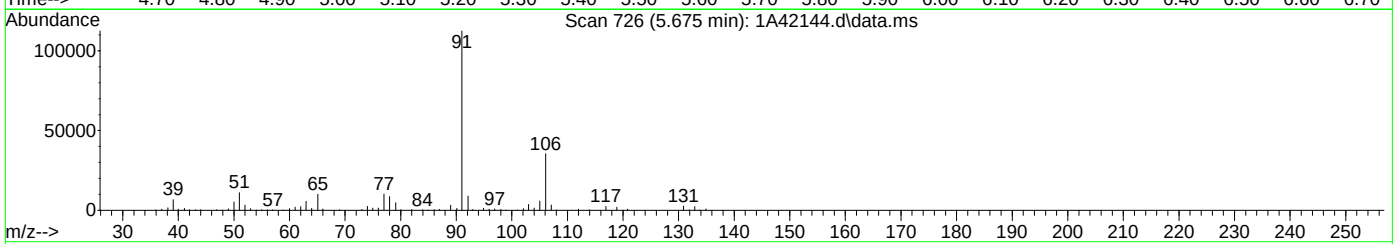
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	57.56
41.10	71.70	73.68
39.00	29.20	31.31

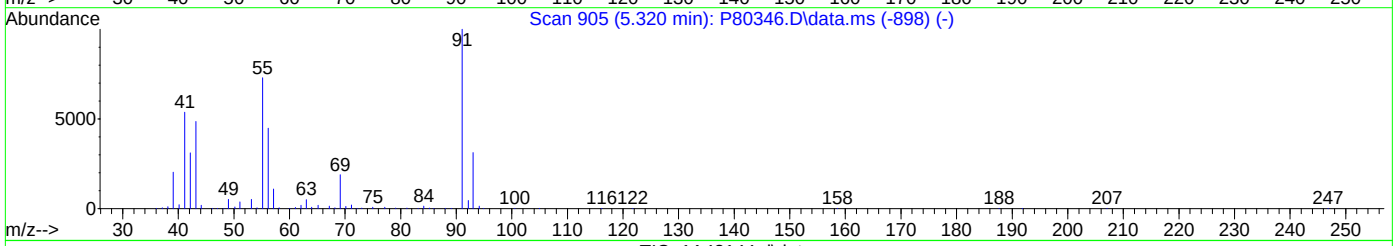
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42144.d
Acq On : 13 Dec 2022 6:59 pm
Operator : joannel
Sample : FC1200-25MS 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 13 22:49:55 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42144.d\data.ms

(76) 1-Chlorohexane

5.675min (+0.023) 94.06ug/L

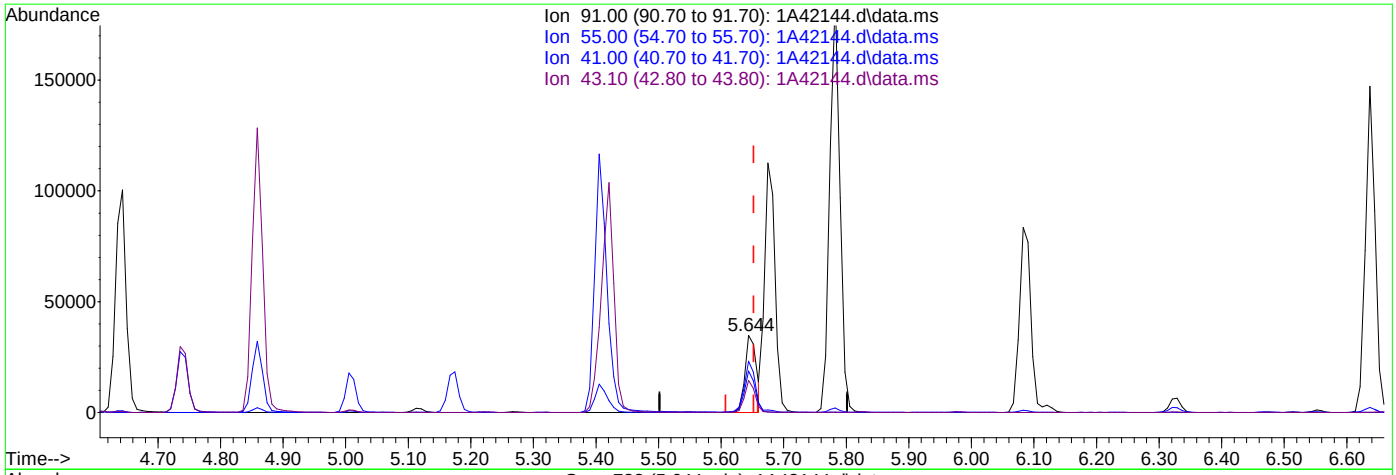
response 177014

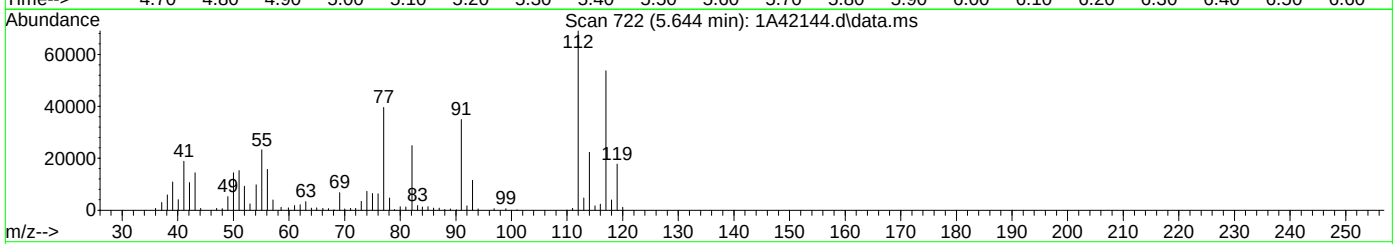
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	0.25#
41.00	48.10	0.89#
43.10	37.30	0.11#

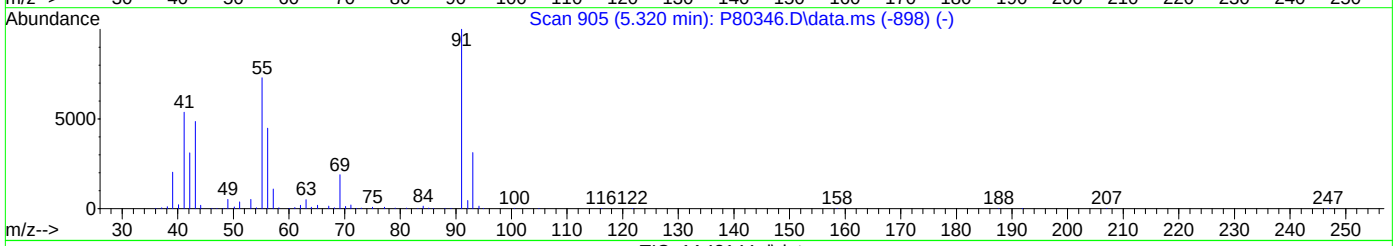
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42144.d
Acq On : 13 Dec 2022 6:59 pm
Operator : joannel
Sample : FC1200-25MS 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 13 22:49:55 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42144.d\data.ms

(76) 1-Chlorohexane

5.644min (-0.008) 23.15ug/L m

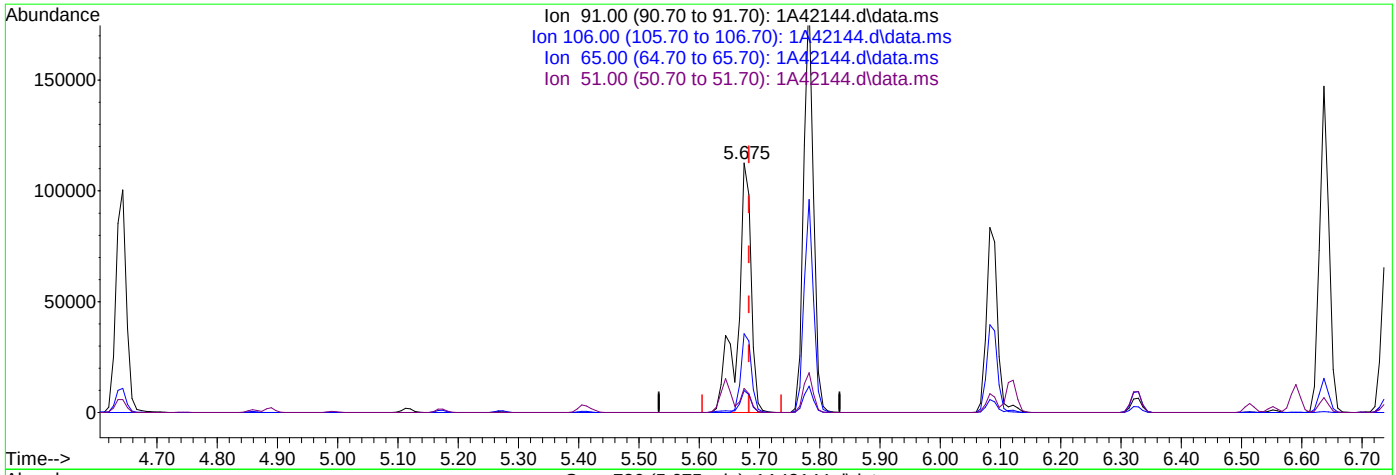
response 43571

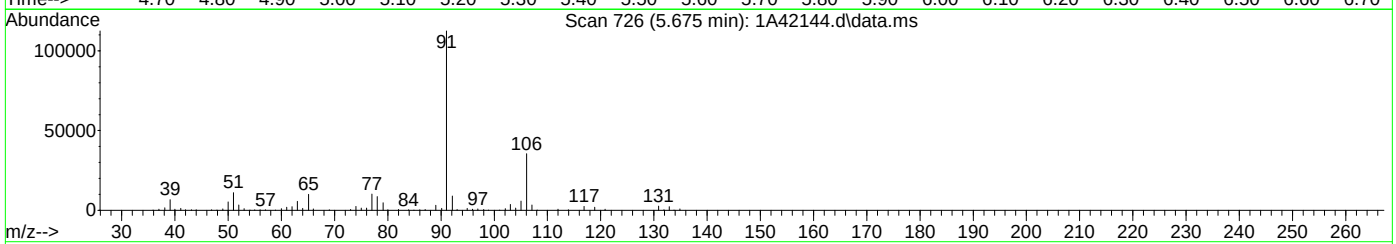
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	66.69
41.00	48.10	53.91
43.10	37.30	41.42

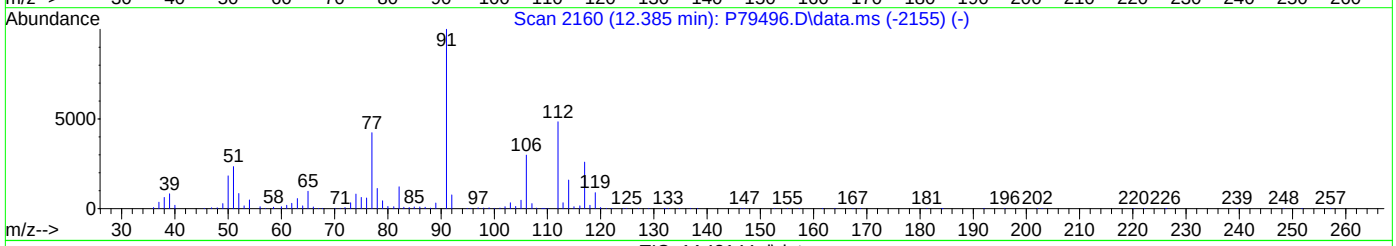
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42144.d
Acq On : 13 Dec 2022 6:59 pm
Operator : joannel
Sample : FC1200-25MS 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 13 22:49:55 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42144.d\data.ms

(77) Ethylbenzene (C)

5.675min (-0.008) 28.76ug/L

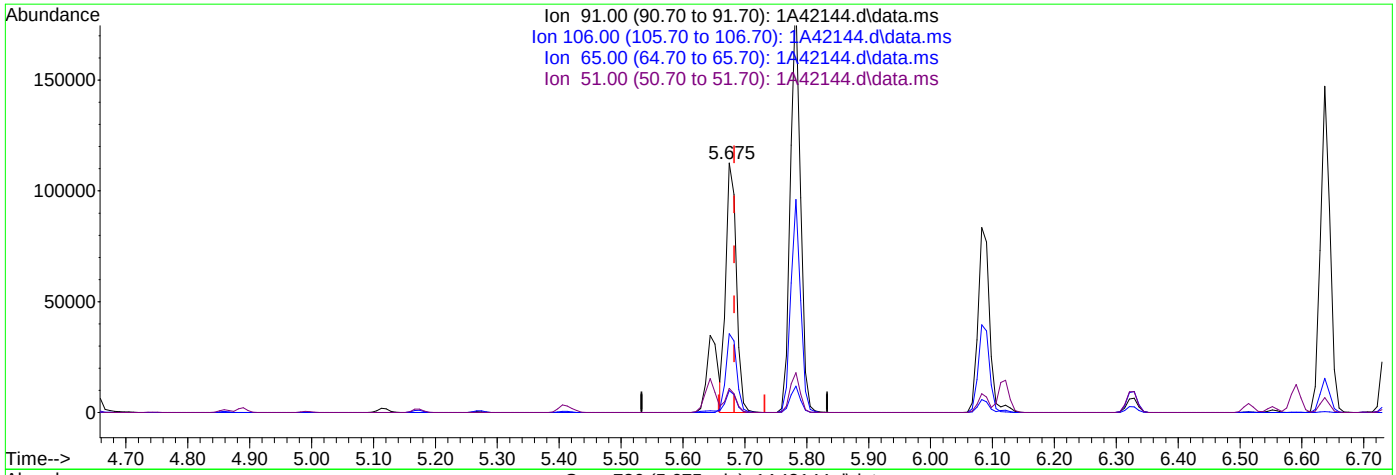
response 177014

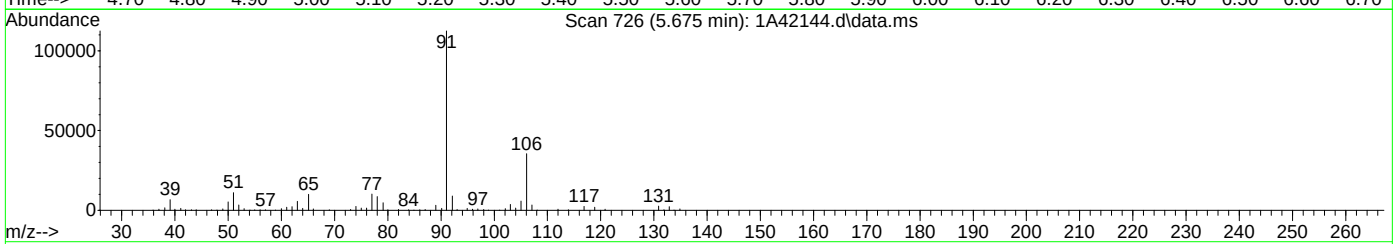
Ion	Exp%	Act%
91.00	100	100
106.00	32.70	31.55
65.00	8.50	8.78
51.00	9.00	9.74

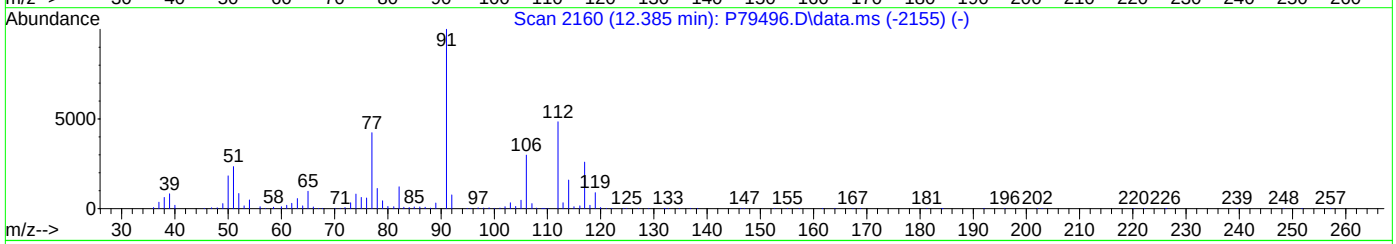
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42144.d
Acq On : 13 Dec 2022 6:59 pm
Operator : joannel
Sample : FC1200-25MS 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 13 22:49:55 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42144.d\data.ms

(77) Ethylbenzene (C)

5.675min (-0.008) 21.68ug/L m

response 133456

Ion	Exp%	Act%
91.00	100	100
106.00	32.70	31.55
65.00	8.50	8.78
51.00	9.00	9.74

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/15/22 02:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42145.d
Acq On : 13 Dec 2022 7:23 pm
Operator : joannel
Sample : FC1200-25MSD 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 13 23:33:05 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	216237	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	174159	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	94853	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	61317	44.19	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	88.38%		
49) 1,2-Dichloroethane-d4	3.474	65	69259	48.70	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery =	97.40%		
63) Toluene-d8	4.605	98	214897	49.06	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery =	98.12%		
86) 4-Bromofluorobenzene	6.514	174	78570	48.61	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	97.22%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.034	85	29687	19.56	ug/L	98
3) Chloromethane	1.157	50	23227	16.57	ug/L	97
4) 1,3-butadiene	1.219	39	30053	29.21	ug/L	99
5) Vinyl Chloride	1.211	62	27395	19.41	ug/L	99
6) Bromomethane	1.411	94	15263	16.06	ug/L	99
7) Chloroethane	1.480	64	8725	15.62	ug/L	96
8) Trichlorofluoromethane	1.573	101	46121	21.62	ug/L	99
9) Ethyl Ether	1.773	59	19446	19.29	ug/L	98
10) Ethanol	1.842	45	8094	398.70	ug/L	100
11) 1,2-Dichlorotrifluoroe...	1.873	67	31997	20.37	ug/L	99
12) 1,1-Dichloroethene	1.873	61	36469	19.61	ug/L	98
13) Freon 113	1.911	101	29009	22.18	ug/L	97
14) Carbon Disulfide	1.896	76	76320	20.65	ug/L	100
15) Iodomethane	1.957	142	31712	23.32	ug/L	98
16) Acrolein	2.050	56	25599	86.92	ug/L	97
17) Allyl chloride	2.142	41	34075	20.35	ug/L	96
18) Methylene Chloride	2.196	49	29253	17.40	ug/L	98
19) Acetone	2.211	43	42826	95.34	ug/L	99
20) Methyl acetate	2.296	43	104937	100.58	ug/L	99
21) trans-1,2-Dichloroethene	2.296	61	36322	19.70	ug/L	98
22) Hexane	2.365	56	24054	22.76	ug/L	92
23) Methyl Tert Butyl Ether	2.365	73	76256	19.88	ug/L	94
24) Acetonitrile	2.365	41	43403m	211.76	ug/L	
25) Tert Butyl Alcohol	2.396	59	47999	207.31	ug/L	98
26) Di-isopropyl ether	2.589	45	71635	20.18	ug/L	99
27) Chloroprene	2.627	53	95323	21.82	ug/L	98
28) 1,1-Dichloroethane	2.635	63	46674	20.01	ug/L	99
29) Acrylonitrile	2.627	52	56070	105.93	ug/L	97
30) ETBE	2.789	59	77314	20.23	ug/L	99
31) Vinyl acetate	2.766	43	285107	113.01	ug/L	99
32) cis-1,2-Dichloroethene	2.927	96	38245	26.00	ug/L	98
33) 2,2-Dichloropropane	2.997	77	38123	17.98	ug/L	99
34) Bromochloromethane	3.035	128	15323	22.11	ug/L	90
35) Cyclohexane	3.073	56	45543	22.03	ug/L	97
36) Chloroform	3.081	83	50411	19.78	ug/L	99
37) Ethyl acetate	3.143	43	146127	104.09	ug/L	100
38) Tetrahydrofuran	3.174	42	9835	20.21	ug/L	98
40) Carbon Tetrachloride	3.181	117	38519m	20.34	ug/L	
41) 1,1,1-Trichloroethane	3.212	97	44301	20.77	ug/L	98
42) 2-Butanone	3.235	43	74740	93.86	ug/L	97
43) 1,1-Dichloropropene	3.281	75	37755	20.51	ug/L	99
44) tert-Butyl formate	3.327	59	75492	66.49	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42145.d
Acq On : 13 Dec 2022 7:23 pm
Operator : joannel
Sample : FC1200-25MSD 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 13 23:33:05 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45)	Propionitrile	3.381	54	47216	204.46	ug/L	99
46)	Methacrylonitrile	3.404	41	176981	209.29	ug/L	99
47)	Benzene	3.412	78	107793	20.19	ug/L	73
48)	TAME	3.497	73	75730	20.57	ug/L	97
50)	1,2-Dichloroethane	3.512	62	37413	20.09	ug/L	100
51)	Isobutyl Alcohol	3.512	43	45549m	676.39	ug/L	
52)	Tert Amyl Alcohol	3.574	59	39281	207.83	ug/L	99
53)	Trichloroethene	3.758	95	30679	20.37	ug/L	99
54)	Methylcyclohexane	3.774	83	54168	24.33	ug/L	98
55)	Dibromomethane	3.989	93	18201	19.76	ug/L	97
56)	1,2-Dichloropropane	4.051	63	25411	18.84	ug/L	97
57)	Bromodichloromethane	4.089	83	35860	20.06	ug/L	100
58)	Methyl methacrylate	4.182	41	26974	21.86	ug/L	97
59)	1,4-Dioxane	4.205	88	8957	475.03	ug/L	91
60)	2-Chloroethyl vinyl ether	4.436	63	10472	11.45	ug/L	96
61)	cis-1,3-Dichloropropene	4.474	75	41455	19.22	ug/L	98
64)	Toluene	4.644	91	116945	19.99	ug/L	99
65)	2-Nitropropane	4.736	41	34757	89.46	ug/L	94
66)	4-Methyl-2-pentanone	4.859	43	154741	95.32	ug/L	100
67)	trans-1,3-Dichloropropene	4.890	75	38935	20.70	ug/L	98
68)	Tetrachloroethene	4.905	166	34206	21.27	ug/L	97
69)	Ethyl methacrylate	5.005	69	34290	19.55	ug/L	98
70)	1,1,2-Trichloroethane	4.990	83	21868	20.93	ug/L	99
71)	Dibromochloromethane	5.113	129	27387	19.68	ug/L	99
72)	1,3-Dichloropropane	5.175	76	40539	19.46	ug/L	99
73)	1,2-Dibromoethane	5.275	107	28015	20.58	ug/L	98
74)	3,3-Dimethyl-1-Butanol	5.405	57	204117	979.02	ug/L	99
75)	2-hexanone	5.421	43	146291	95.98	ug/L	95
76)	1-Chlorohexane	5.644	91	41520m	21.79	ug/L	
77)	Ethylbenzene	5.675	91	128373m	20.59	ug/L	
78)	Chlorobenzene	5.644	112	77965	21.16	ug/L	96
79)	1,1,1,2-Tetrachloroethane	5.690	131	28004	21.32	ug/L	97
80)	m,p-Xylene	5.783	91	201780	41.11	ug/L	99
81)	o-Xylene	6.083	91	104584	20.63	ug/L	100
82)	Styrene	6.121	104	81379	20.81	ug/L	99
83)	Bromoform	6.121	173	18534	19.80	ug/L	99
84)	Isopropylbenzene	6.329	105	128795	21.55	ug/L	99
87)	cis-1,4-Dichloro-2-butene	6.552	53	8944	15.28	ug/L	92
88)	n-Propylbenzene	6.637	91	153128	20.73	ug/L	99
89)	Bromobenzene	6.591	156	33172	20.07	ug/L	97
90)	1,1,2,2-Tetrachloroethane	6.660	83	36726	20.08	ug/L	99
91)	1,3,5-Trimethylbenzene	6.791	105	108447	20.17	ug/L	98
92)	2-Chlorotoluene	6.745	91	87225	20.32	ug/L	99
93)	trans-1,4-Dichloro-2-B...	6.791	53	11610	18.09	ug/L	95
94)	1,2,3-Trichloropropane	6.752	110	10596	19.18	ug/L	89
95)	Cyclohexanone	6.768	55	6779	95.10	ug/L	97
96)	4-Chlorotoluene	6.868	91	90191	20.11	ug/L	98
97)	tert-Butylbenzene	7.037	91	62538	20.56	ug/L	96
98)	1,2,4-Trimethylbenzene	7.091	105	107307	20.87	ug/L	100
99)	Pentachloroethane	7.037	167	18740	21.94	ug/L	94
100)	sec-Butylbenzene	7.176	105	143439	22.70	ug/L	97
101)	4-Isopropyltoluene	7.299	119	124995	22.43	ug/L	98
102)	1,3-Dichlorobenzene	7.322	146	63058	21.18	ug/L	97
103)	1,2,3-Trimethylbenzene	7.430	105	109788	22.18	ug/L	98
104)	1,4-Dichlorobenzene	7.391	146	63249	20.70	ug/L	94
105)	n-Butylbenzene	7.630	92	57661	20.56	ug/L	99
106)	Benzyl Chloride	7.584	126	12691	17.80	ug/L	99
107)	1,2-Dichlorobenzene	7.714	146	57844	20.87	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42145.d
Acq On : 13 Dec 2022 7:23 pm
Operator : joannel
Sample : FC1200-25MSD 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 13 23:33:05 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

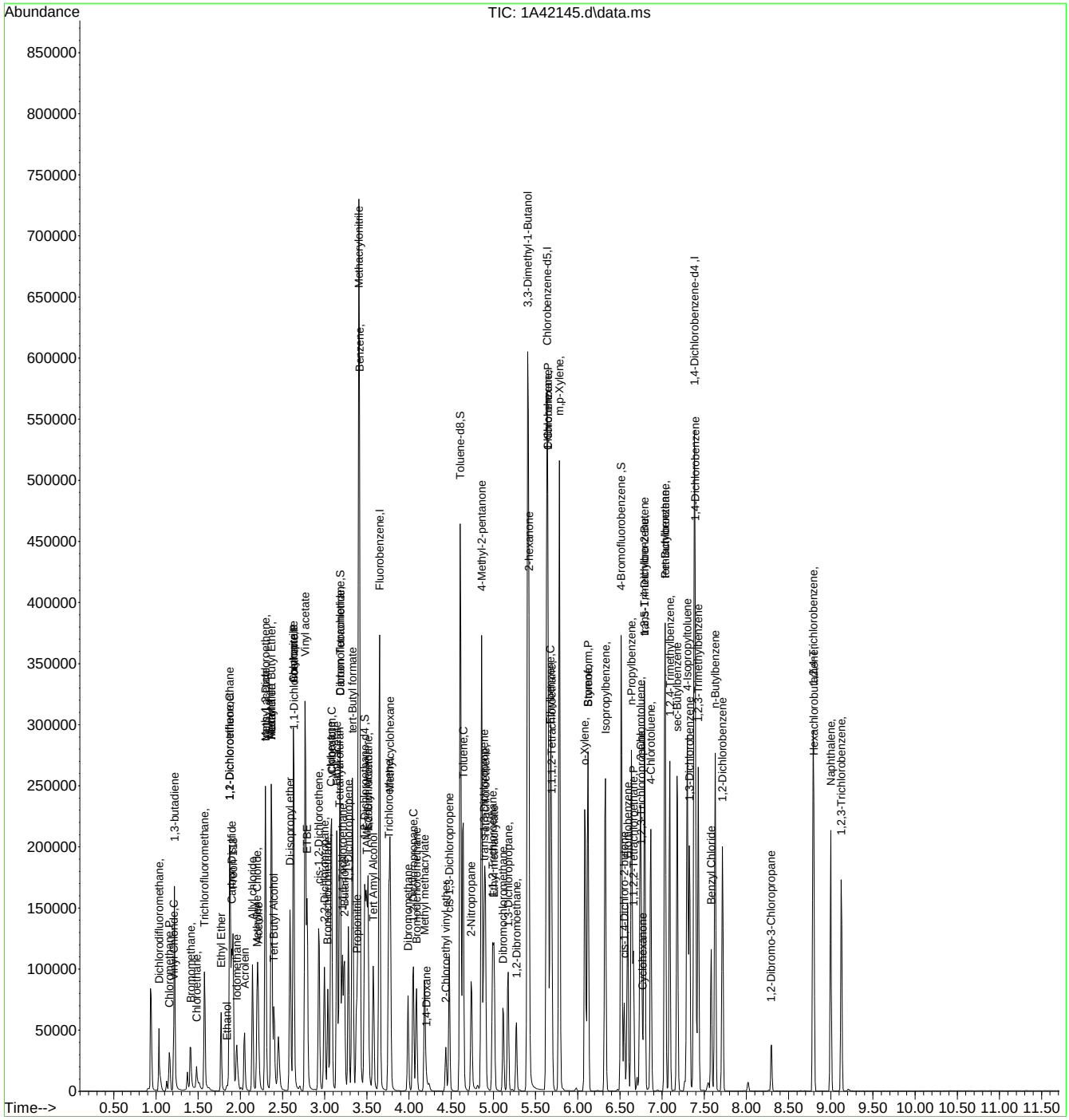
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	8.292	75	6616	18.59	ug/L	79
109) Hexachlorobutadiene	8.800	225	22715	22.09	ug/L	96
110) 1,2,4-Trichlorobenzene	8.792	180	39489	20.55	ug/L	98
111) Naphthalene	9.000	128	104166	19.75	ug/L	100
112) 1,2,3-Trichlorobenzene	9.123	180	36273	19.98	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42145.d
Acq On : 13 Dec 2022 7:23 pm
Operator : joannel
Sample : FC1200-25MSD 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 13 23:33:05 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



Manual Integration Approval Summary

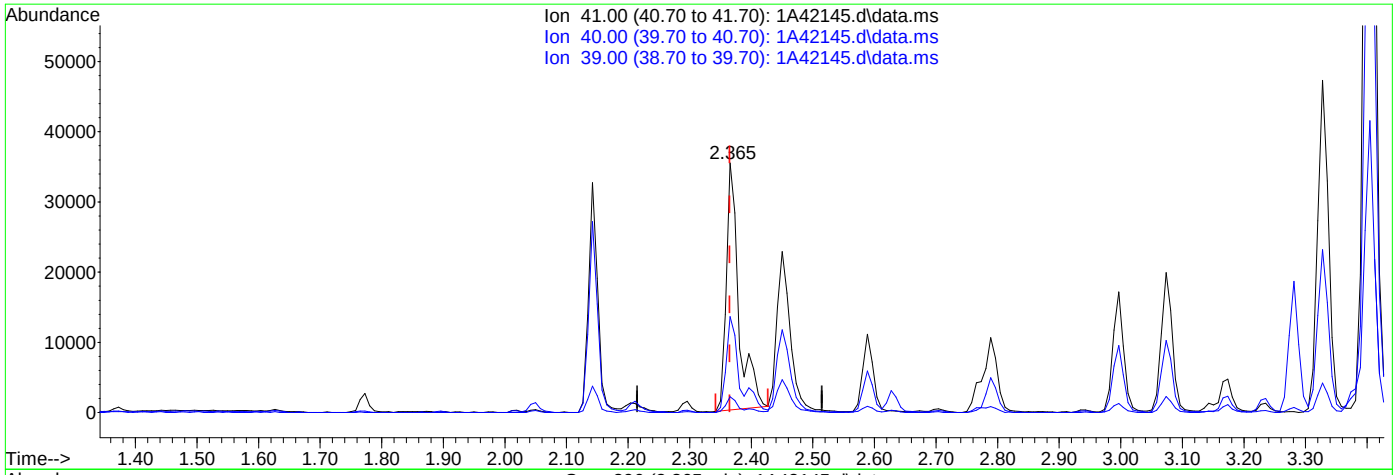
Sample Number: FC1200-25MSD
Lab FileID: 1A42145.D
Injection Time: 12/13/22 19:23
Method: SW846 8260D
Analyst approved: 12/13/22 23:37 Celine Celis
Supervisor approved: 12/15/22 02:21 Jennifer Fereira

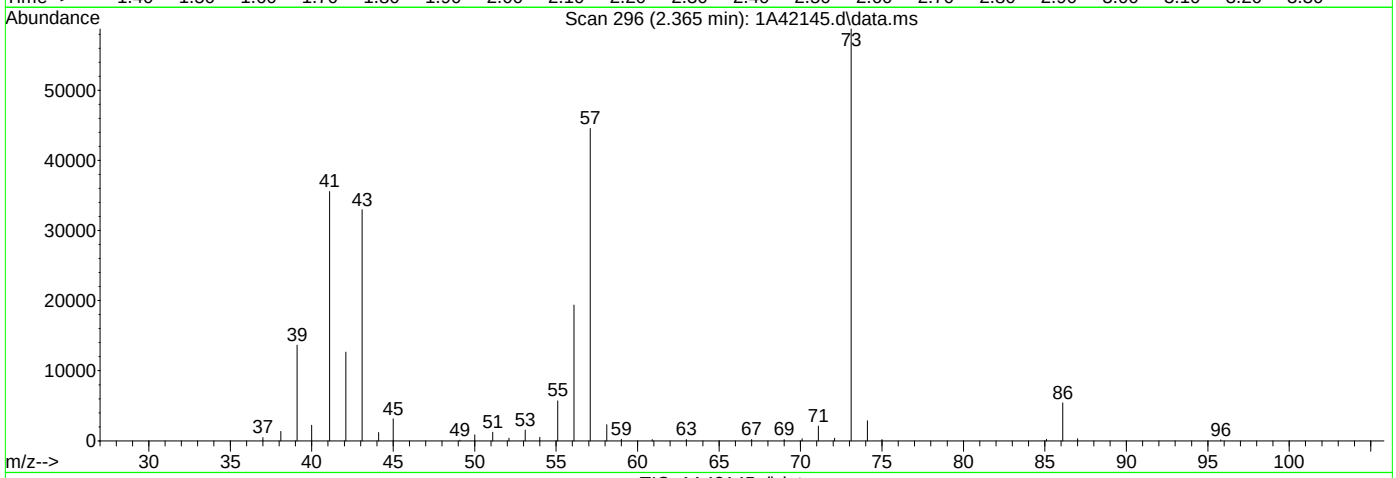
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.37	Overlapping peak
Carbon Tetrachloride	56-23-5		3.18	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Overlapping peak
1-Chlorohexane	544-10-5		5.64	Overlapping peak
Ethylbenzene	100-41-4		5.67	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42145.d
Acq On : 13 Dec 2022 7:23 pm
Operator : joannel
Sample : FC1200-25MSD 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 13 22:49:58 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42145.d\data.ms

(24) Acetonitrile

2.365min (+0.000) 242.04ug/L

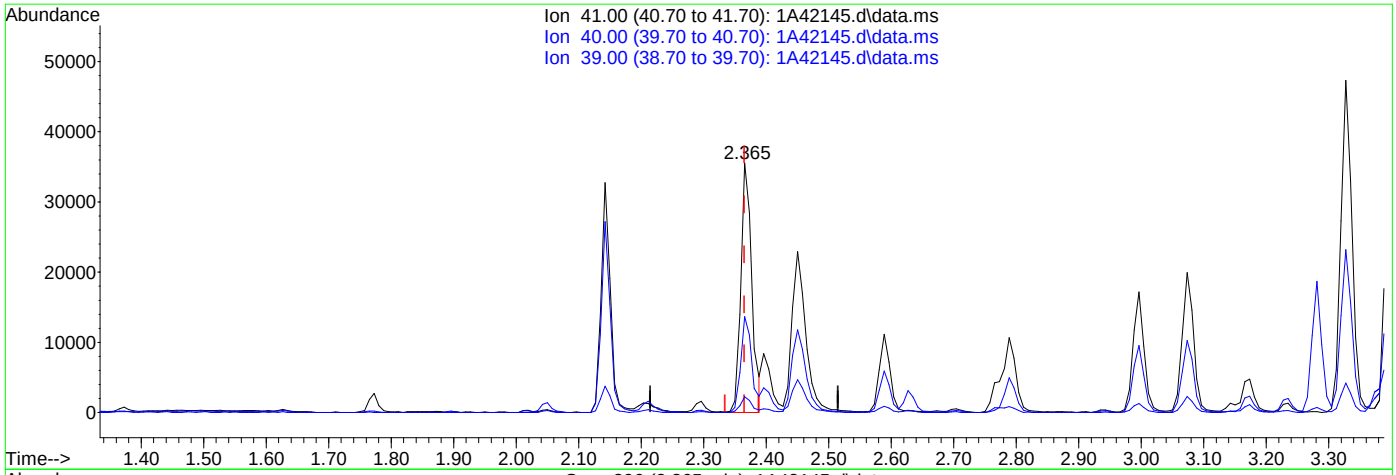
response 49610

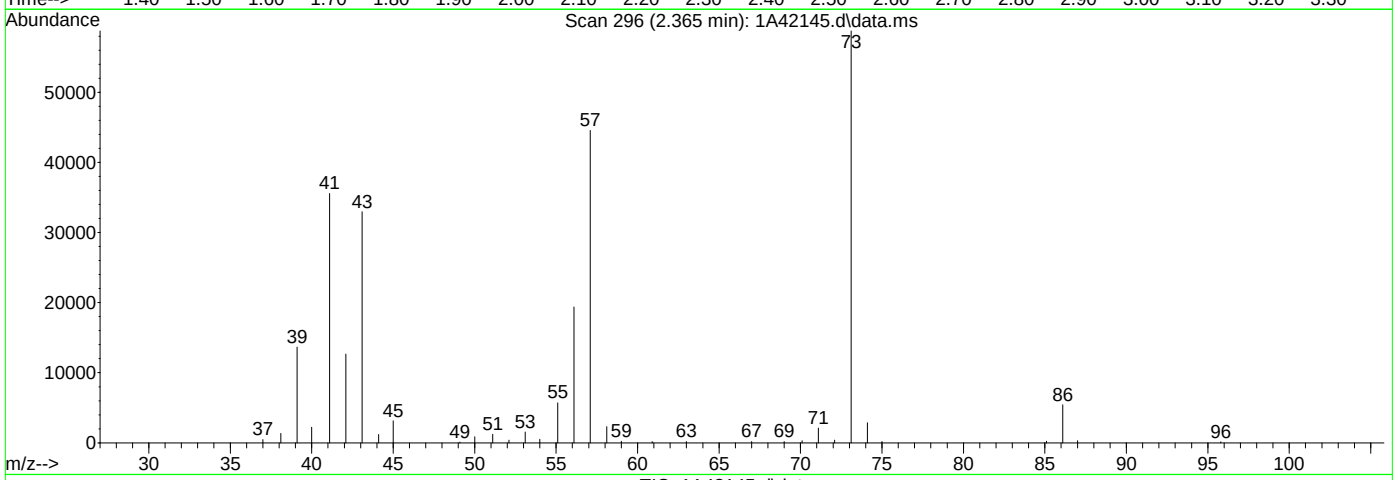
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.31
39.00	37.60	38.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42145.d
Acq On : 13 Dec 2022 7:23 pm
Operator : joannel
Sample : FC1200-25MSD 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 13 22:49:58 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42145.d\data.ms

(24) Acetonitrile

2.365min (+0.000) 211.76ug/L m

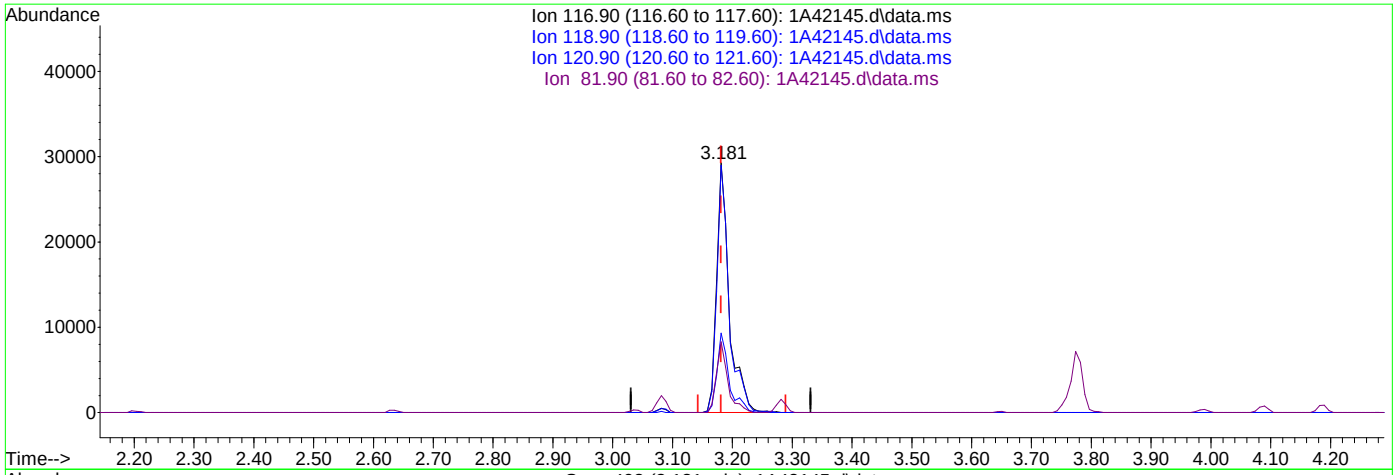
response 43403

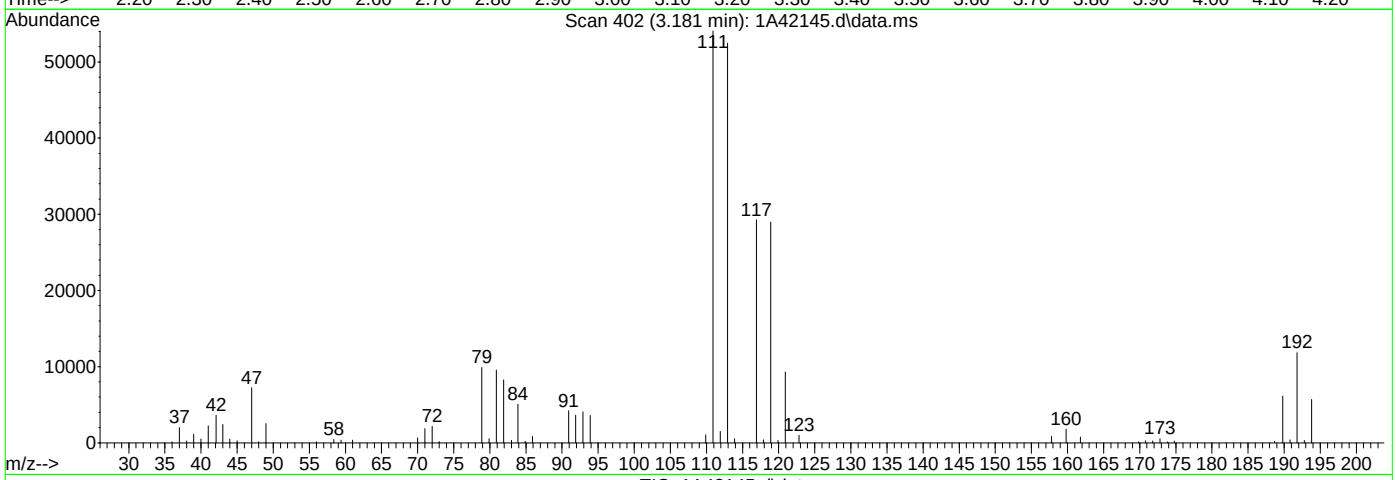
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.28
39.00	37.60	38.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42145.d
Acq On : 13 Dec 2022 7:23 pm
Operator : joannel
Sample : FC1200-25MSD 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 13 22:49:58 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42145.d\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 22.89ug/L

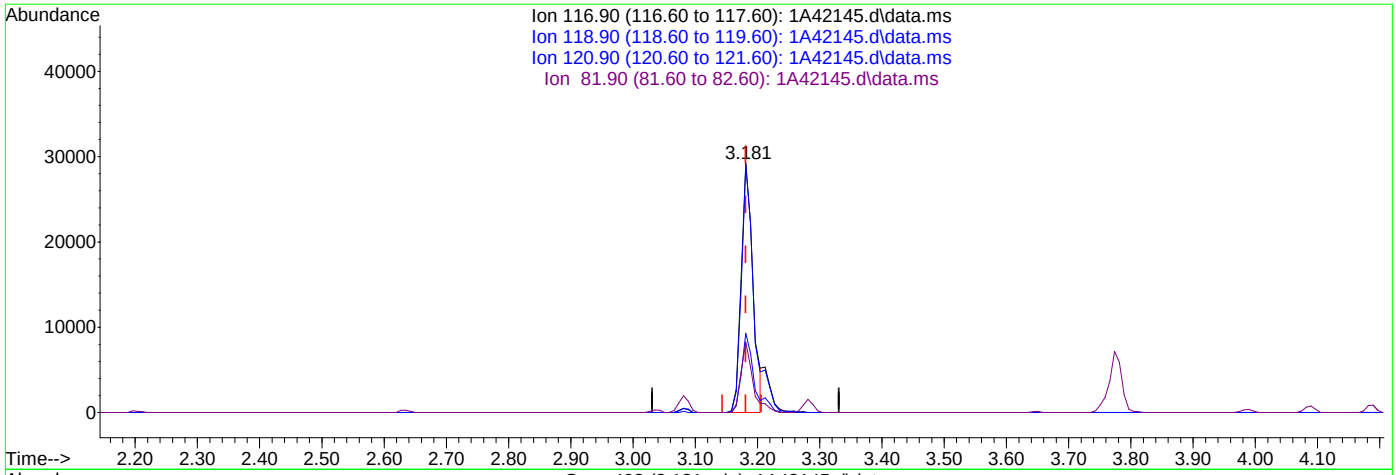
response 43347

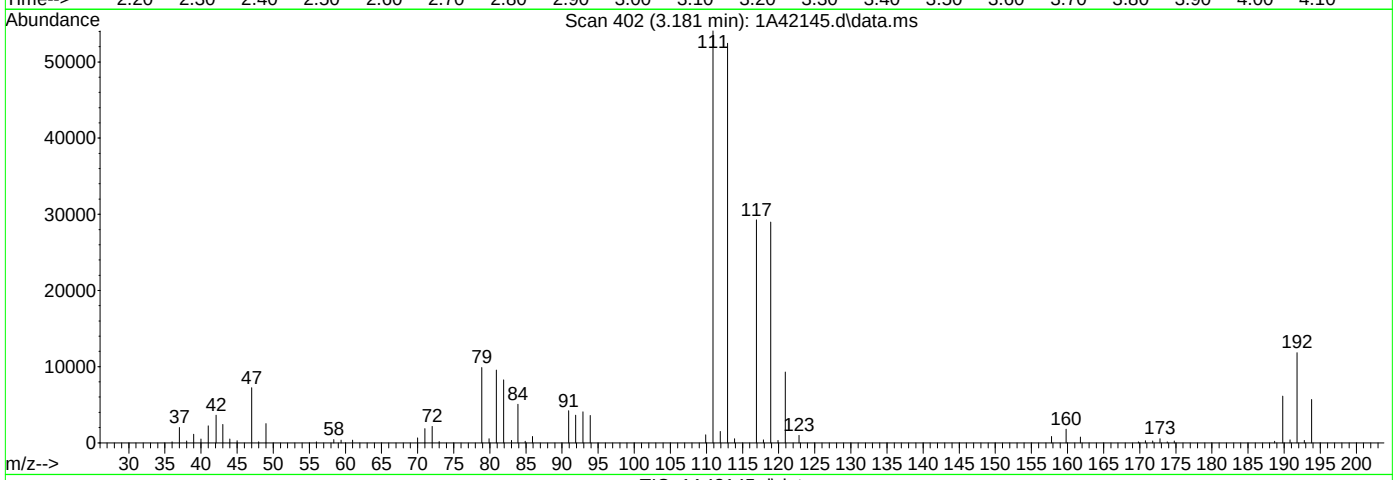
Ion	Exp%	Act%
116.90	100	100
118.90	95.70	99.04
120.90	30.30	31.77
81.90	26.50	28.28

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42145.d
Acq On : 13 Dec 2022 7:23 pm
Operator : joannel
Sample : FC1200-25MSD 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 13 22:49:58 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42145.d\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 20.34ug/L m

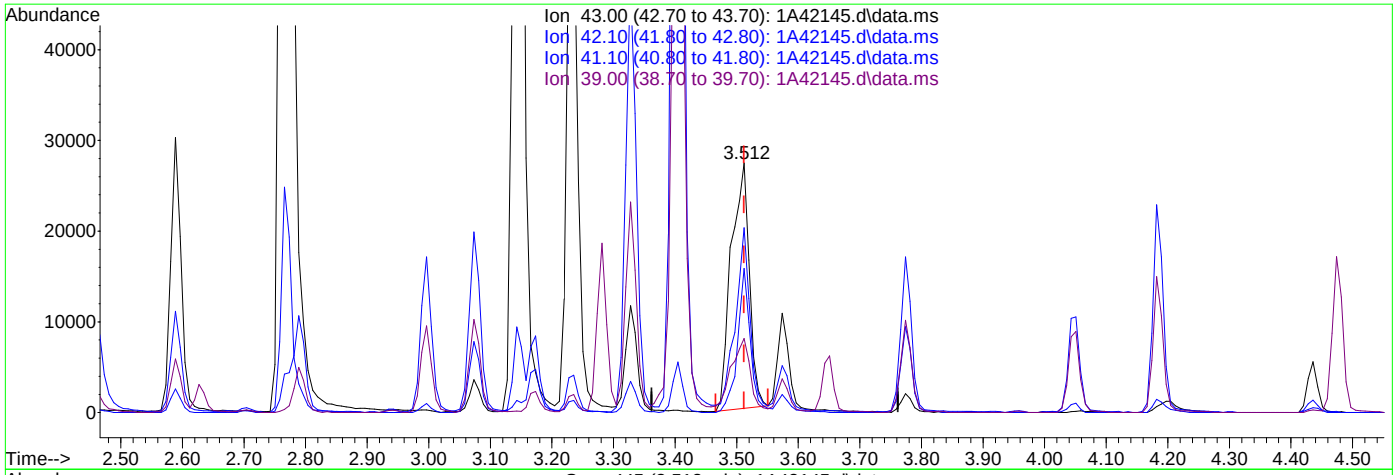
response 38519

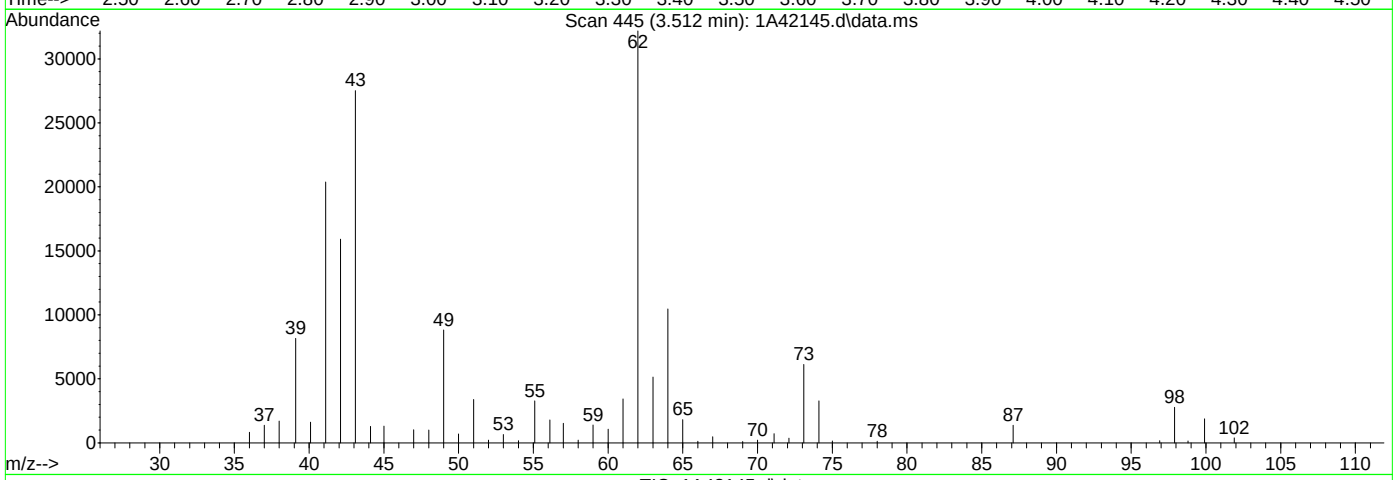
Ion	Exp%	Act%
116.90	100	100
118.90	95.70	99.04
120.90	30.30	31.77
81.90	26.50	28.28

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42145.d
Acq On : 13 Dec 2022 7:23 pm
Operator : joannel
Sample : FC1200-25MSD 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 13 22:49:58 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42145.d\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 820.27ug/L

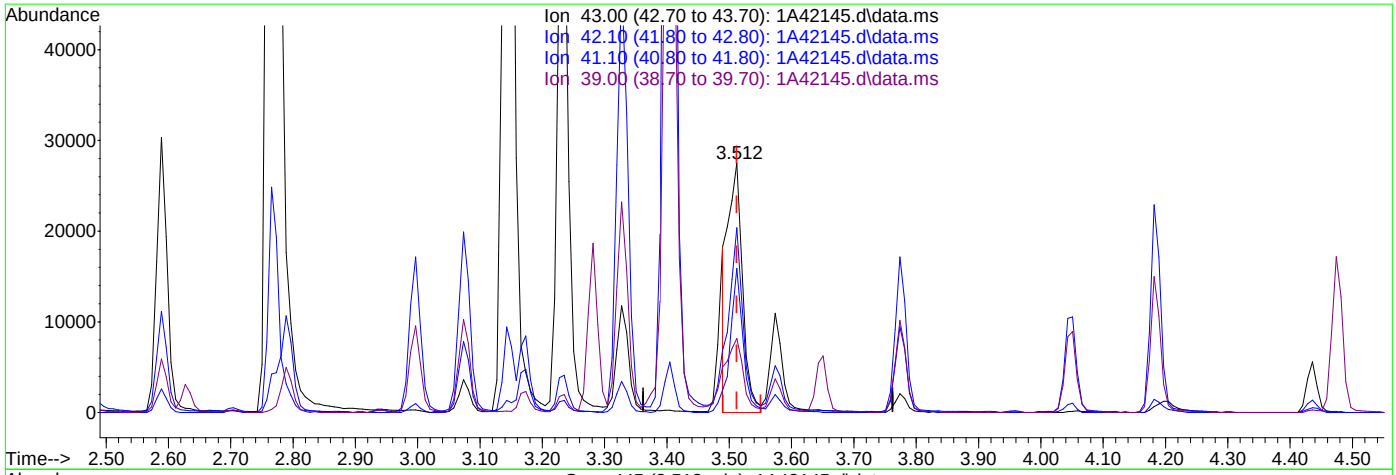
response 55814

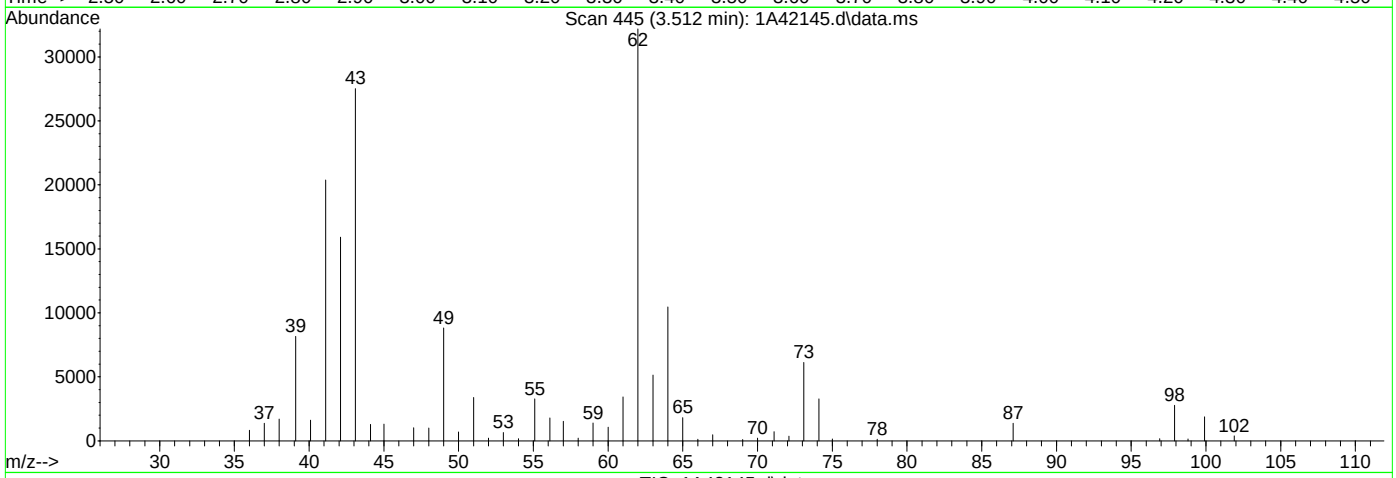
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	58.08
41.10	71.70	71.69
39.00	29.20	28.33

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42145.d
Acq On : 13 Dec 2022 7:23 pm
Operator : joannel
Sample : FC1200-25MSD 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 13 22:49:58 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42145.d\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 676.39ug/L m

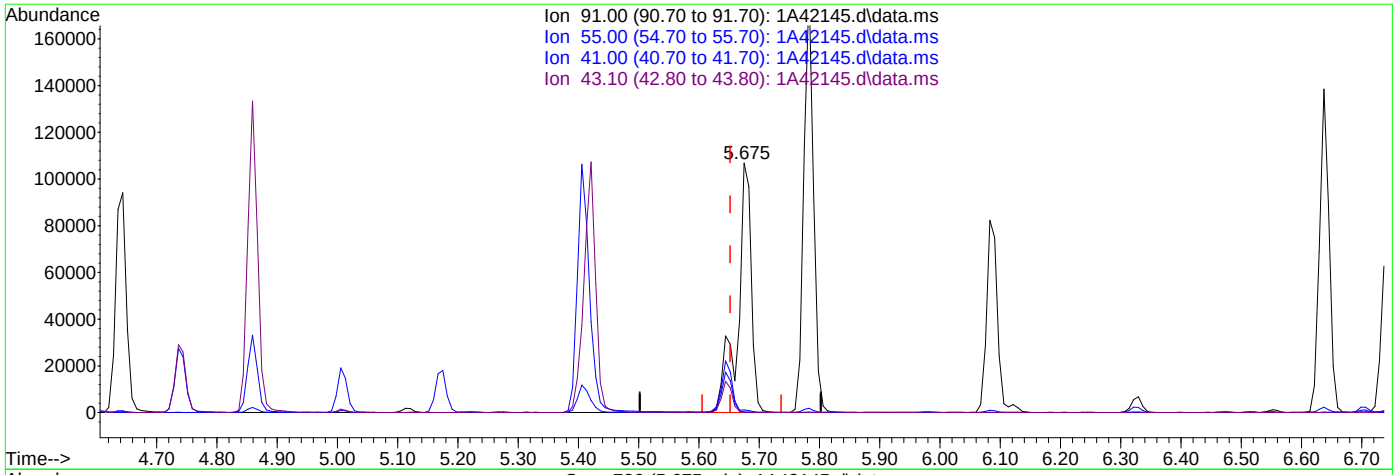
response 45549

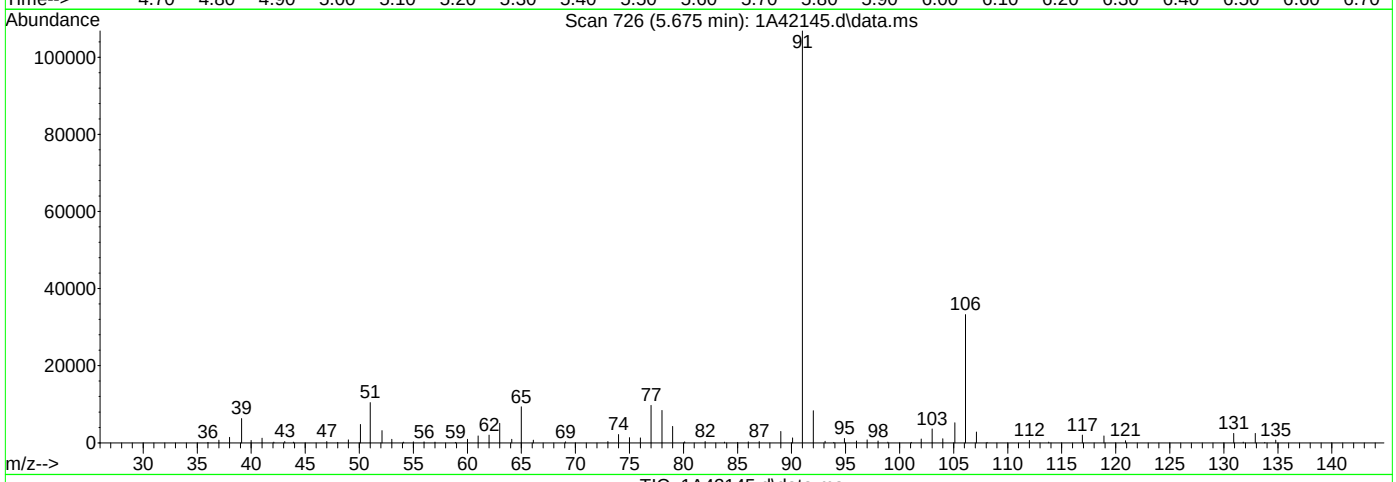
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	57.78
41.10	71.70	74.07
39.00	29.20	29.64

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42145.d
Acq On : 13 Dec 2022 7:23 pm
Operator : joannel
Sample : FC1200-25MSD 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 13 22:49:58 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42145.d\data.ms

(76) 1-Chlorohexane

5.675min (+0.023) 89.14ug/L

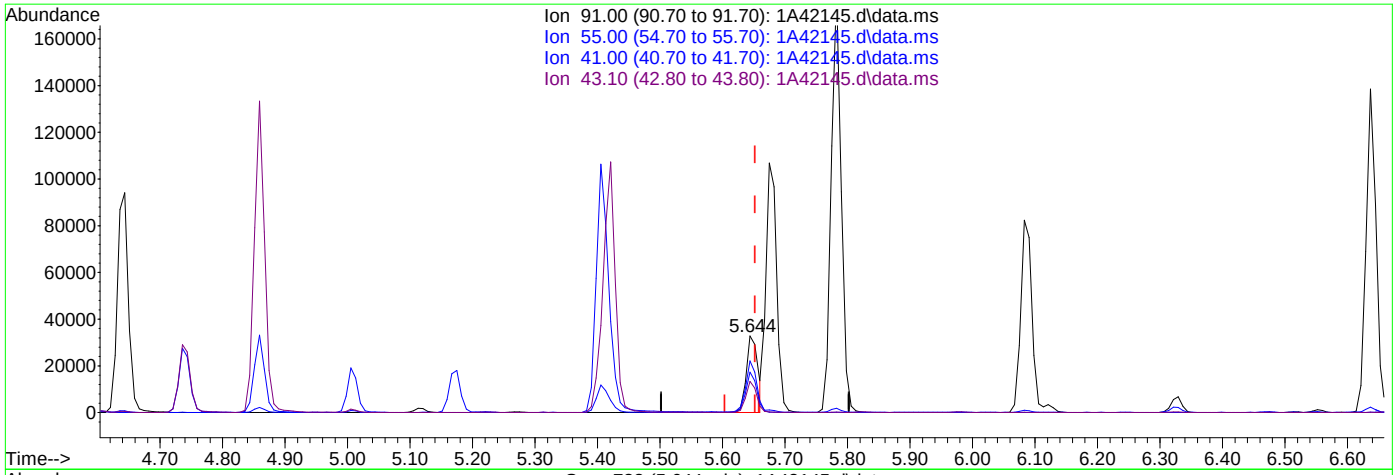
response 169894

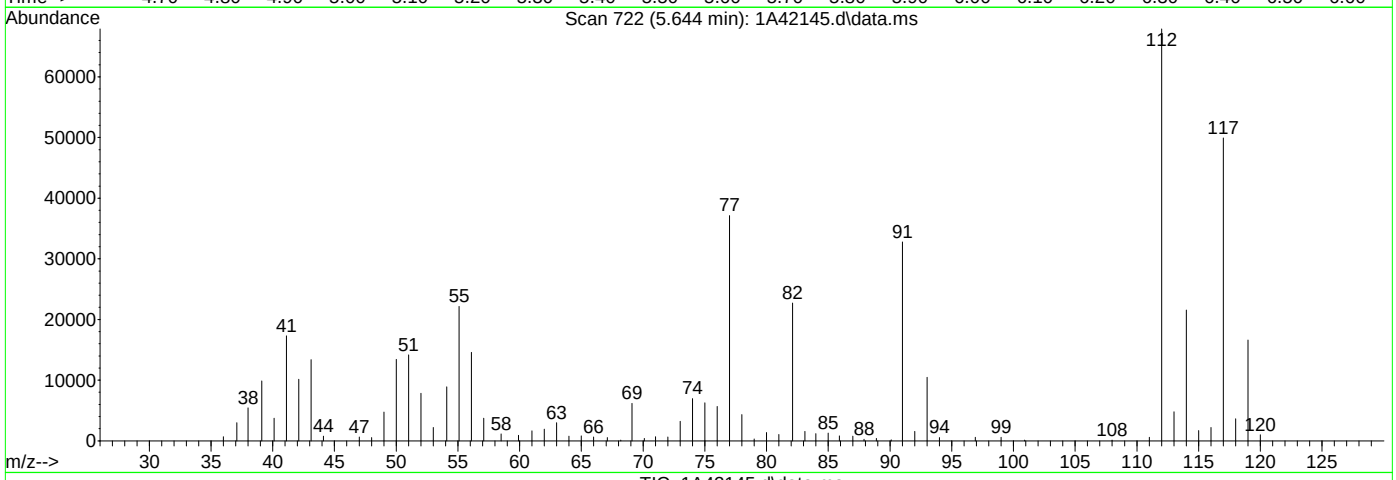
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	0.22#
41.00	48.10	0.97#
43.10	37.30	0.29#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42145.d
Acq On : 13 Dec 2022 7:23 pm
Operator : joannel
Sample : FC1200-25MSD 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 13 22:49:58 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42145.d\data.ms

(76) 1-Chlorohexane

5.644min (-0.008) 21.79ug/L m

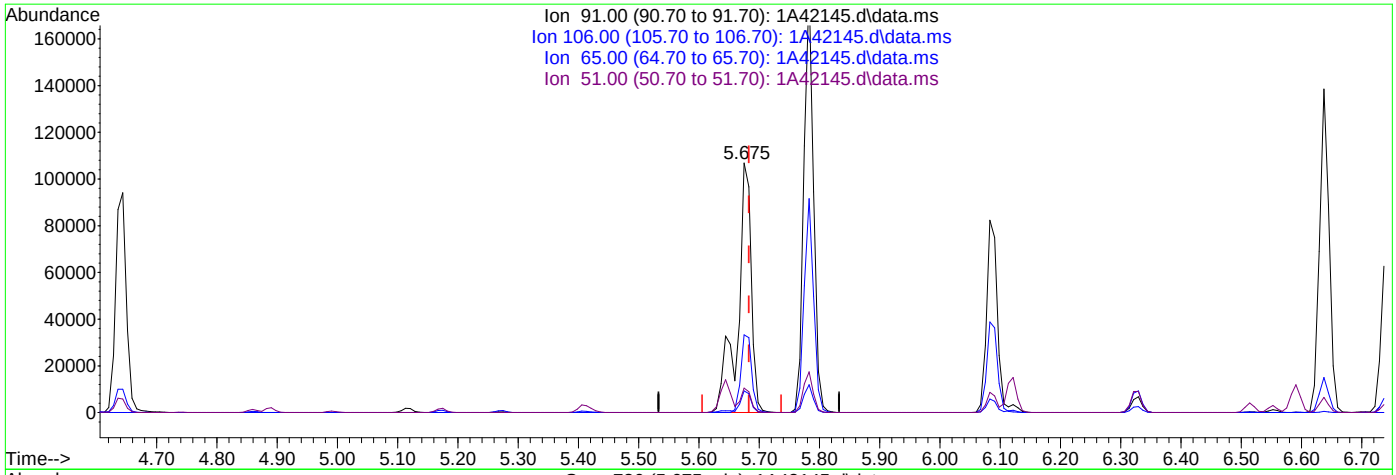
response 41520

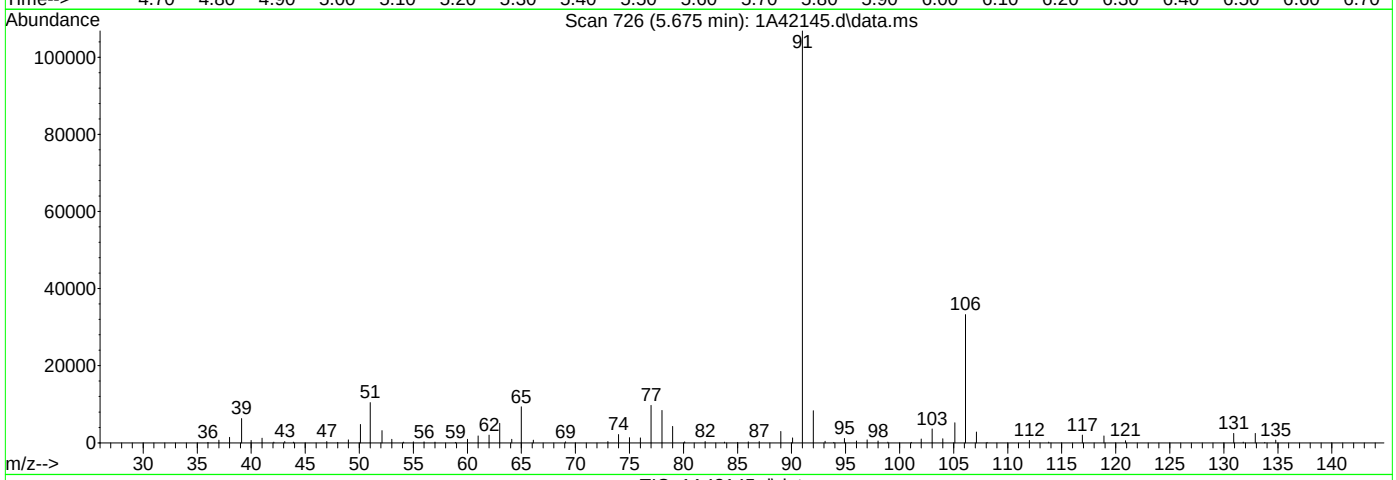
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	67.61
41.00	48.10	52.84
43.10	37.30	40.86

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42145.d
Acq On : 13 Dec 2022 7:23 pm
Operator : joannel
Sample : FC1200-25MSD 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 13 22:49:58 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42145.d\data.ms

(77) Ethylbenzene (C)

5.675min (-0.008) 27.25ug/L

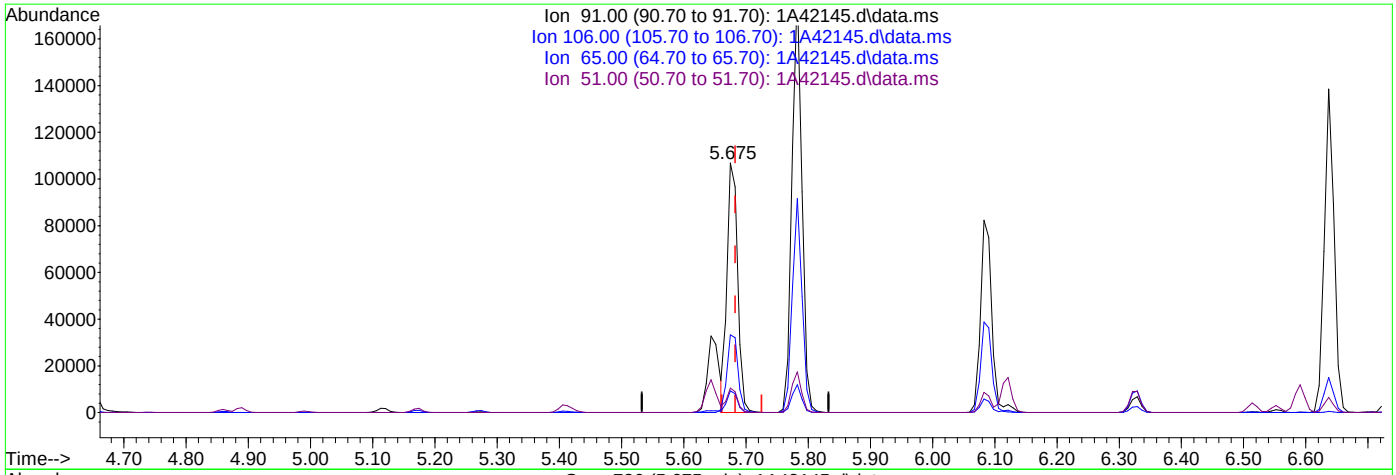
response 169894

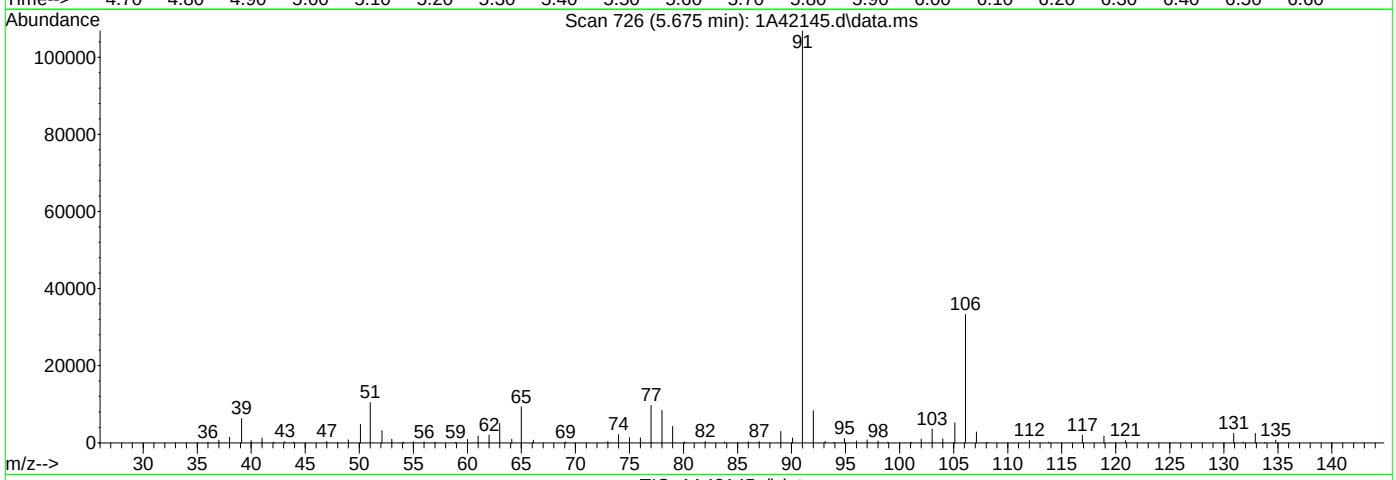
Ion	Exp%	Act%
91.00	100	100
106.00	32.70	31.14
65.00	8.50	8.74
51.00	9.00	9.79

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42145.d
Acq On : 13 Dec 2022 7:23 pm
Operator : joannel
Sample : FC1200-25MSD 10X
Misc : MS53004,V1A1697,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 13 22:49:58 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42145.d\data.ms

(77) Ethylbenzene (C)

5.675min (-0.008) 20.59ug/L m

response 128373

Ion	Exp%	Act%
91.00	100	100
106.00	32.70	31.14
65.00	8.50	8.74
51.00	9.00	9.79

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/14/22 01:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59
Data File : 2P96313.D
Acq On : 13 Dec 2022 8:54 pm
Operator : courtnef
Sample : FC1200-5MS, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Dec 13 21:31:20 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.718	96	750937	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.638	117	549569	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.327	152	253272	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.263	113	174948	55.75	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	111.50%		
49) 1,2-Dichloroethane-d4	3.551	65	255221	56.53	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery =	113.06%		
63) Toluene-d8	4.644	98	734269	46.99	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery =	93.98%		
86) 4-Bromofluorobenzene	6.490	174	205715	52.99	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	105.98%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.129	85	199242	69.70	ug/L	100
3) Chloromethane	1.255	50	159579	49.66	ug/L	100
4) 1,3-butadiene	1.323	39	81551	24.34	ug/L	100
5) Vinyl Chloride	1.307	62	153468	43.79	ug/L	98
6) Bromomethane	1.511	94	35172	21.50	ug/L	91
7) Chloroethane	1.584	64	76707	78.76	ug/L	96
8) Trichlorofluoromethane	1.673	101	216159	54.85	ug/L	99
9) Ethyl Ether	1.883	59	57964	19.63	ug/L	99
10) Ethanol	1.977	45	39043	397.04	ug/L	93
11) 1,2-Dichlorotrifluoroe...	1.982	67	84764	25.01	ug/L	92
12) 1,1-Dichloroethene	1.982	61	107674	25.91	ug/L	98
13) Freon 113	2.019	101	67740	27.01	ug/L	93
14) Carbon Disulfide	2.003	76	196424	25.13	ug/L	96
15) Iodomethane	2.060	142	52861	28.07	ug/L	98
16) Acrolein	2.160	56	101853	111.21	ug/L	97
17) Allyl chloride	2.249	41	104030	27.44	ug/L	94
18) Methylene Chloride	2.306	49	87469	19.23	ug/L	92
19) Acetone	2.322	43	217457	105.76	ug/L	96
20) Methyl acetate	2.400	43	465893	106.86	ug/L	94
21) trans-1,2-Dichloroethene	2.406	61	102088	24.66	ug/L	93
22) Hexane	2.468	56	54058	23.85	ug/L #	90
23) Methyl Tert Butyl Ether	2.474	73	244065	24.97	ug/L	96
24) Tert Butyl Alcohol	2.510	59	267225	261.73	ug/L	98
25) Acetonitrile	2.557	41	141569	190.62	ug/L	96
26) Di-isopropyl ether	2.688	45	225518	22.39	ug/L	96
27) Chloroprene	2.730	53	591634	39.71	ug/L	93
28) 1,1-Dichloroethane	2.730	63	134122	24.88	ug/L	99
29) Acrylonitrile	2.730	52	424308	216.46	ug/L	89
30) ETBE	2.882	59	234227	23.79	ug/L	97
31) Vinyl acetate	2.861	43	1910823	245.89	ug/L	98
32) cis-1,2-Dichloroethene	3.023	96	133918	44.72	ug/L	96
33) 2,2-Dichloropropane	3.086	77	105493	23.81	ug/L	97
34) Bromochloromethane	3.127	128	34140	27.87	ug/L	87
35) Cyclohexane	3.164	56	121207	24.95	ug/L	96
36) Chloroform	3.169	83	139282	26.29	ug/L	95
37) Ethyl acetate	3.227	43	1222175	223.45	ug/L	98
38) Tetrahydrofuran	3.258	42	47445	22.11	ug/L	96
40) Carbon Tetrachloride	3.269	117	106924m	32.35	ug/L	
41) 1,1,1-Trichloroethane	3.295	97	127821	29.13	ug/L	95
42) 2-Butanone	3.316	43	367025	110.93	ug/L	96
43) 1,1-Dichloropropene	3.363	75	102819	25.44	ug/L	94
44) tert-Butyl formate	3.410	59	207237	89.88	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96313.D
Acq On : 13 Dec 2022 8:54 pm
Operator : courtnef
Sample : FC1200-5MS, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Dec 13 21:31:20 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
45) Propionitrile	3.462	54	205148	230.31 ug/L	98
46) Methacrylonitrile	3.483	41	665892	215.16 ug/L	97
47) Benzene	3.493	78	289266	22.48 ug/L	97
48) TAME	3.567	73	226009	24.28 ug/L	97
50) Isobutyl alcohol	3.593	43	226931m	403.35 ug/L	
51) 1,2-Dichloroethane	3.588	62	114111	26.07 ug/L	95
52) Tert Amyl Alcohol	3.656	59	190405	233.88 ug/L	95
53) Trichloroethene	3.823	95	237462	76.60 ug/L	98
54) Methylcyclohexane	3.844	83	120052	27.73 ug/L	95
55) Dibromomethane	4.048	93	43753	25.16 ug/L	94
56) 1,2-Dichloropropane	4.105	63	68412	22.07 ug/L	97
57) Bromodichloromethane	4.142	83	100733	30.02 ug/L	100
58) Methyl methacrylate	4.236	41	86826	23.74 ug/L	96
59) 1,4-Dioxane	4.262	88	39134	505.75 ug/L	94
61) cis-1,3-Dichloropropene	4.519	75	108751	23.79 ug/L	95
64) Toluene	4.681	91	316436	22.29 ug/L	96
65) 2-Nitropropane	4.775	41	178940	121.25 ug/L	95
66) 4-Methyl-2-pentanone	4.890	43	613485	100.76 ug/L	97
67) trans-1,3-Dichloropropene	4.916	75	113248	26.74 ug/L	86
68) Tetrachloroethene	4.937	166	73031	25.99 ug/L	98
69) Ethyl methacrylate	5.026	69	102387	21.80 ug/L	94
70) 1,1,2-Trichloroethane	5.015	83	56665	22.67 ug/L	94
71) Dibromochloromethane	5.141	129	67179	27.45 ug/L	98
72) 1,3-Dichloropropane	5.193	76	117471	21.48 ug/L	92
73) 1,2-Dibromoethane	5.293	107	67310	23.45 ug/L	100
74) 3,3-dimethyl-1-butanol	5.429	57	876684	951.61 ug/L	96
75) 2-hexanone	5.429	43	625154	96.07 ug/L	99
76) 1-Chlorohexane	5.648	91	97363m	21.79 ug/L	
77) Ethylbenzene	5.680	91	363143	23.65 ug/L	98
78) Chlorobenzene	5.654	112	189016	22.96 ug/L	99
79) 1,1,1,2-Tetrachloroethane	5.695	131	71997	28.76 ug/L	92
80) m,p-Xylene	5.779	91	566549	47.05 ug/L	100
81) o-Xylene	6.072	91	284687	23.97 ug/L	94
82) Styrene	6.109	104	201482	23.63 ug/L	95
83) Bromoform	6.114	173	42227	32.24 ug/L	96
84) Isopropylbenzene	6.302	105	325072	24.01 ug/L	99
87) cis-1,4-Dichloro-2-butene	6.522	53	25911	16.95 ug/L	90
88) n-Propylbenzene	6.605	91	396165	22.40 ug/L	98
89) Bromobenzene	6.569	156	72516	22.82 ug/L	91
90) 1,1,2,2-Tetrachloroethane	6.626	83	105711	21.38 ug/L	96
91) 1,3,5-Trimethylbenzene	6.752	105	271494	23.08 ug/L	97
92) 2-Chlorotoluene	6.710	91	242471	22.87 ug/L	98
93) trans-1,4-Dichloro-2-B...	6.752	53	35678	19.83 ug/L	94
94) 1,2,3-Trichloropropane	6.720	110	37146	21.40 ug/L	90
95) Cyclohexanone	6.747	55	60519	175.63 ug/L	97
96) 4-Chlorotoluene	6.830	91	253296	22.95 ug/L	100
97) tert-Butylbenzene	6.992	91	157764	23.48 ug/L	98
99) 1,2,4-Trimethylbenzene	7.040	105	265719	23.48 ug/L	97
100) Pentachloroethane	6.992	167	44989	31.50 ug/L #	61
101) sec-Butylbenzene	7.128	105	304072	23.54 ug/L	97
102) 4-Isopropyltoluene	7.243	119	264804	24.30 ug/L	97
103) 1,3-Dichlorobenzene	7.275	146	142369	24.53 ug/L	96
104) 1,2,3-Trimethylbenzene	7.369	105	276472	24.52 ug/L	99
105) 1,4-Dichlorobenzene	7.338	146	138643	22.77 ug/L	92
106) n-Butylbenzene	7.557	92	113745	20.21 ug/L	99
107) Benzyl Chloride	7.515	126	31316	22.04 ug/L #	87
108) 1,2-Dichlorobenzene	7.646	146	130602	23.80 ug/L	98
109) 1,2-Dibromo-3-Chloropr...	8.201	75	26319	24.13 ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96313.D
Acq On : 13 Dec 2022 8:54 pm
Operator : courtnef
Sample : FC1200-5MS, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Dec 13 21:31:20 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

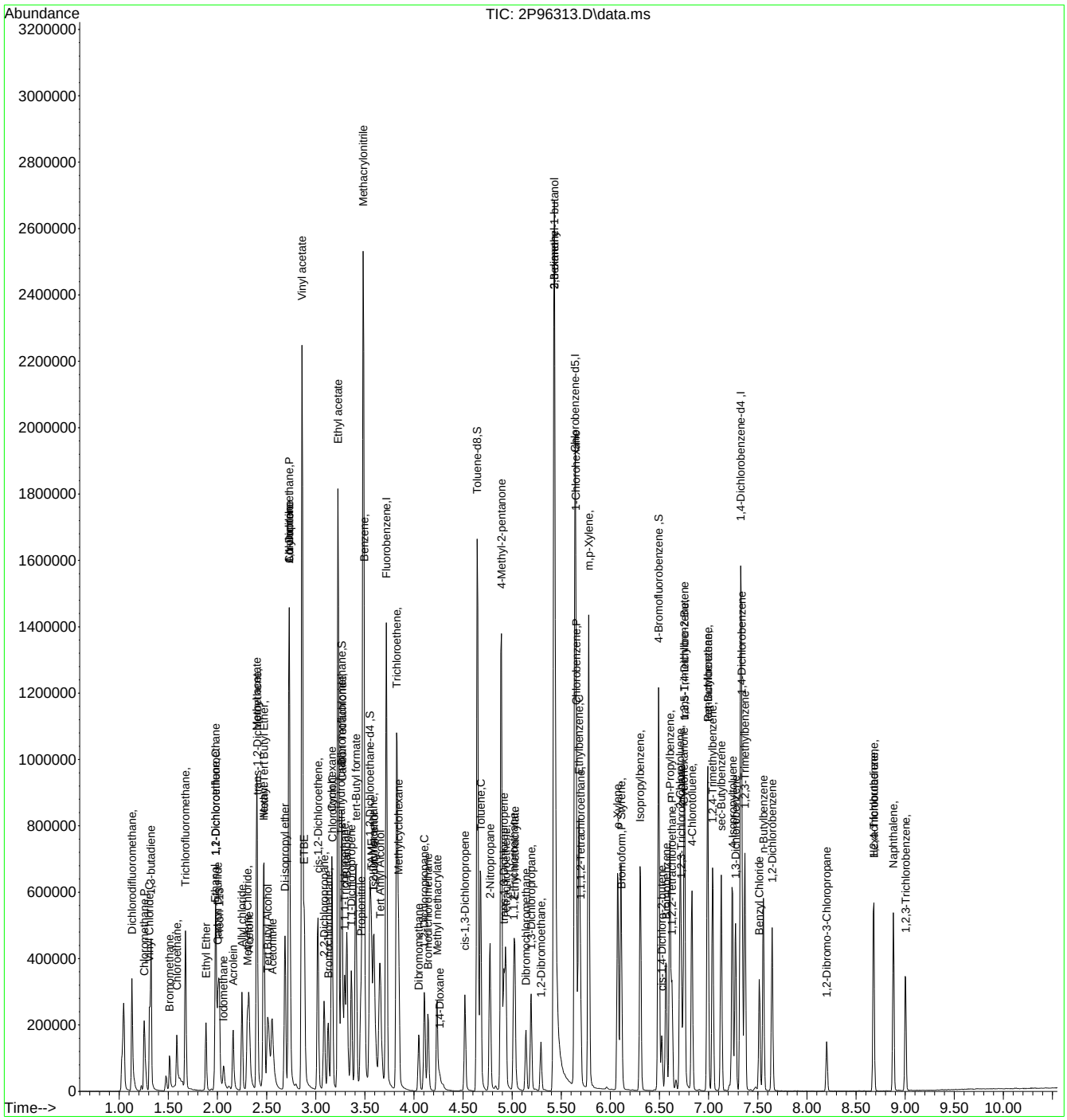
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) Hexachlorobutadiene	8.682	225	28973	29.78	ug/L	89
111) 1,2,4-Trichlorobenzene	8.682	180	66015	22.99	ug/L	96
112) Naphthalene	8.881	128	242795	20.41	ug/L	99
113) 1,2,3-Trichlorobenzene	9.006	180	65983	24.60	ug/L	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96313.D
Acq On : 13 Dec 2022 8:54 pm
Operator : courtnef
Sample : FC1200-5MS, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Dec 13 21:31:20 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: FC1200-5MS
Lab FileID: 2P96313.D
Injection Time: 12/13/22 20:54

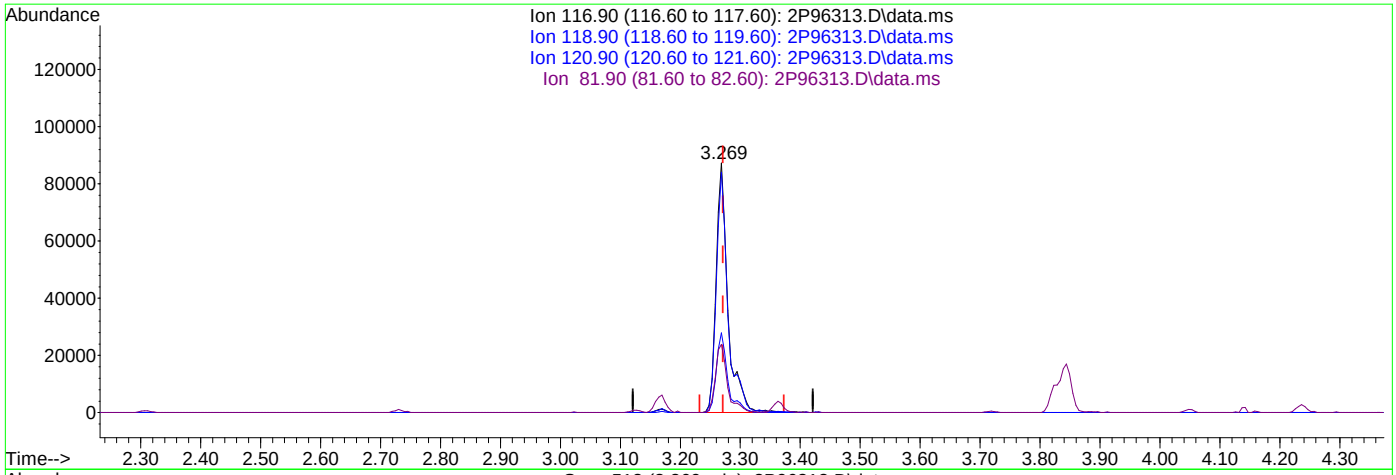
Method: SW846 8260D
Analyst approved: 12/13/22 22:41 Celine Celis
Supervisor approved: 12/14/22 01:26 Jennifer Fereira

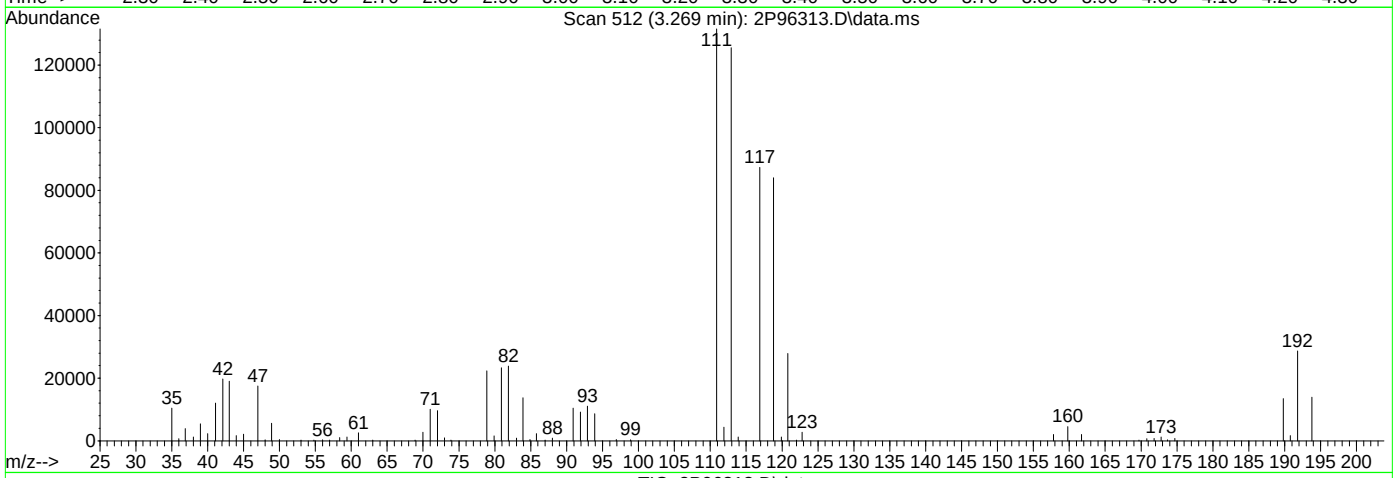
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P1658-59\
Data File : 2P96313.D
Acq On : 13 Dec 2022 8:54 pm
Operator : courtnef
Sample : FC1200-5MS, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Dec 13 21:23:49 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96313.D\data.ms

(40) Carbon Tetrachloride ( )

3.269min (-0.003) 36.40ug/L

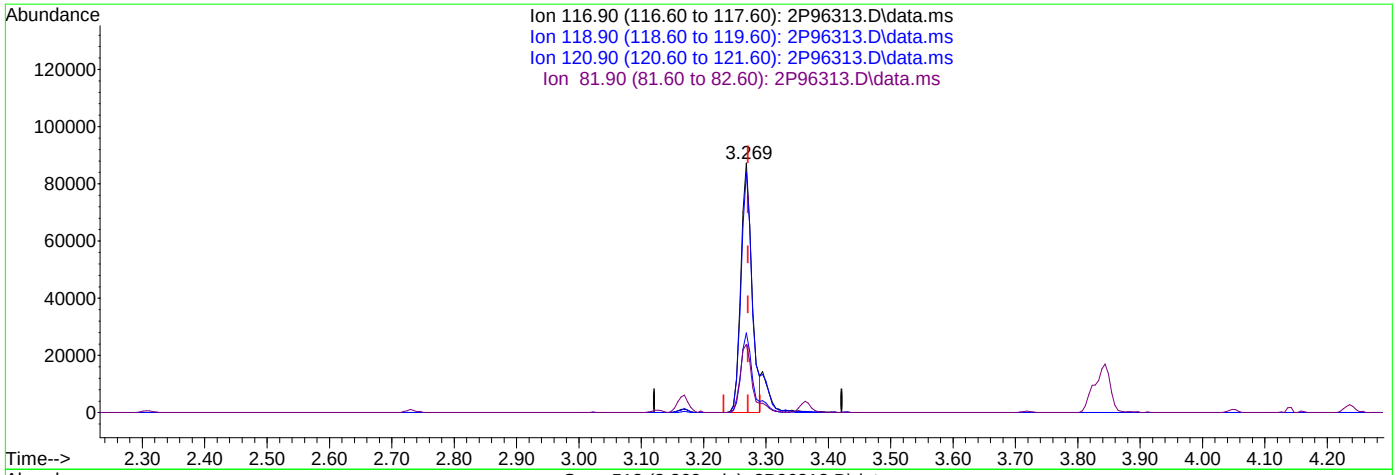
response 120317

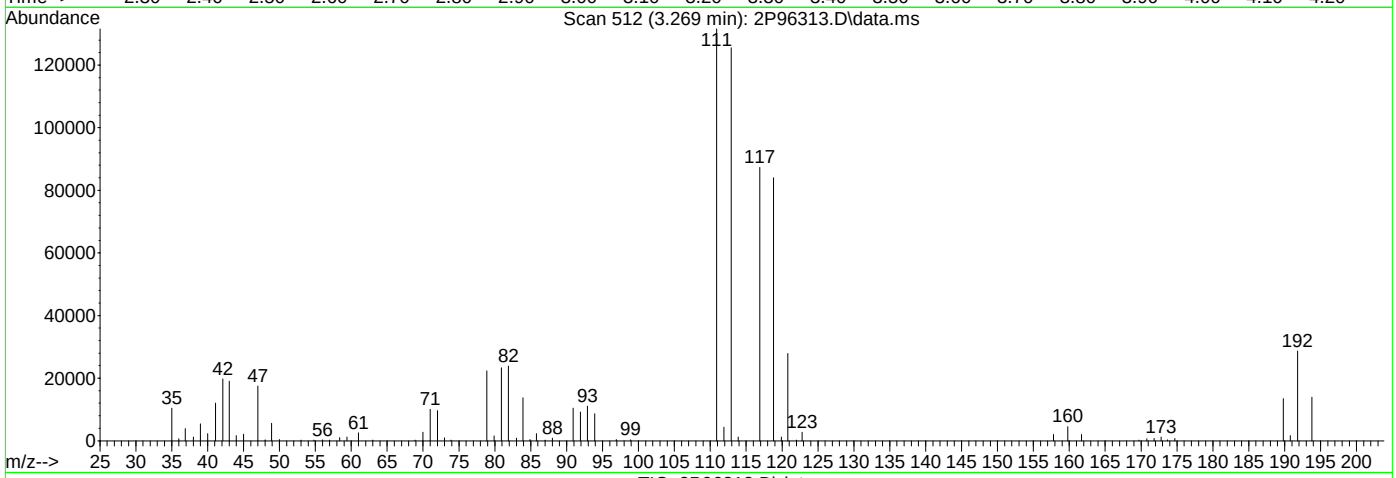
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	96.25
120.90	30.80	31.97
81.90	27.00	27.33

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P1658-59\
Data File : 2P96313.D
Acq On : 13 Dec 2022 8:54 pm
Operator : courtnef
Sample : FC1200-5MS, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Dec 13 21:23:49 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96313.D\data.ms

(40) Carbon Tetrachloride ( )

3.269min (-0.003) 32.35ug/L m

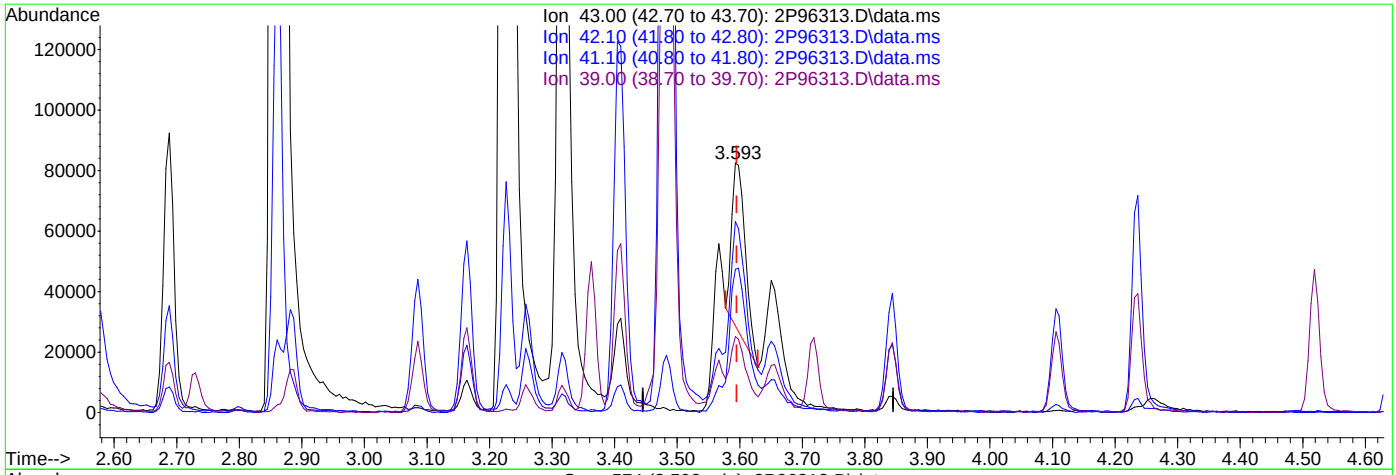
response 106924

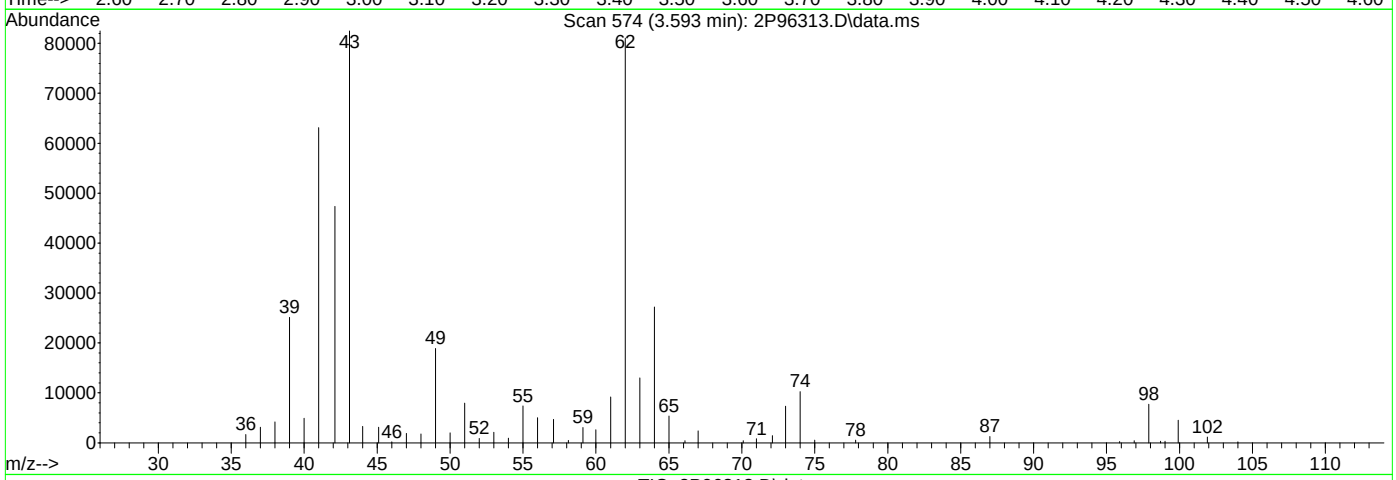
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	96.25
120.90	30.80	31.97
81.90	27.00	27.33

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P1658-59\
Data File : 2P96313.D
Acq On : 13 Dec 2022 8:54 pm
Operator : courtnef
Sample : FC1200-5MS, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Dec 13 21:23:49 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96313.D\data.ms

(50) Isobutyl alcohol

3.593min (-0.003) 142.07ug/L

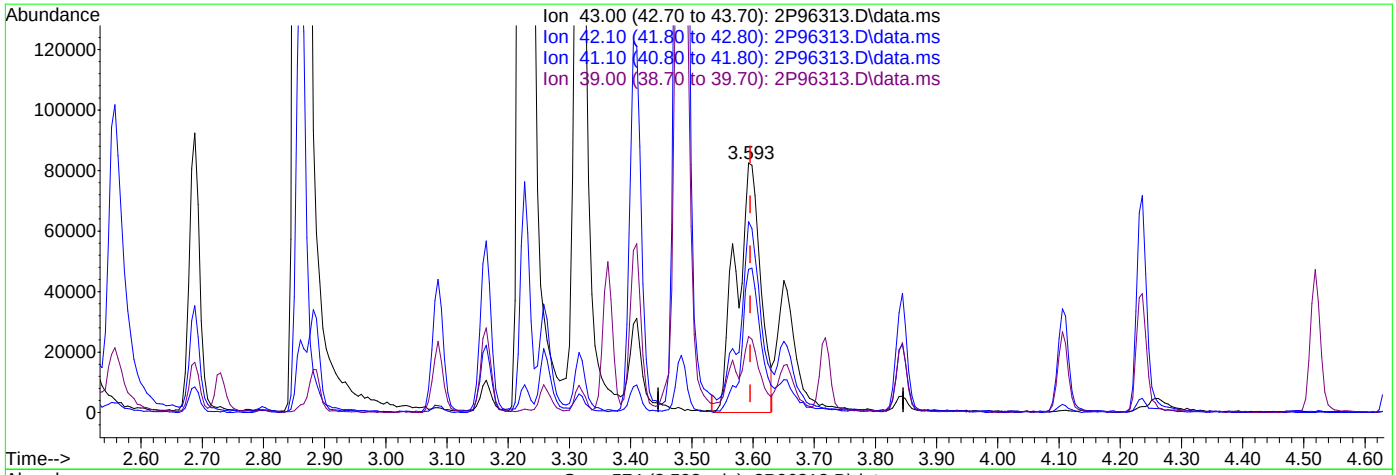
response 79932

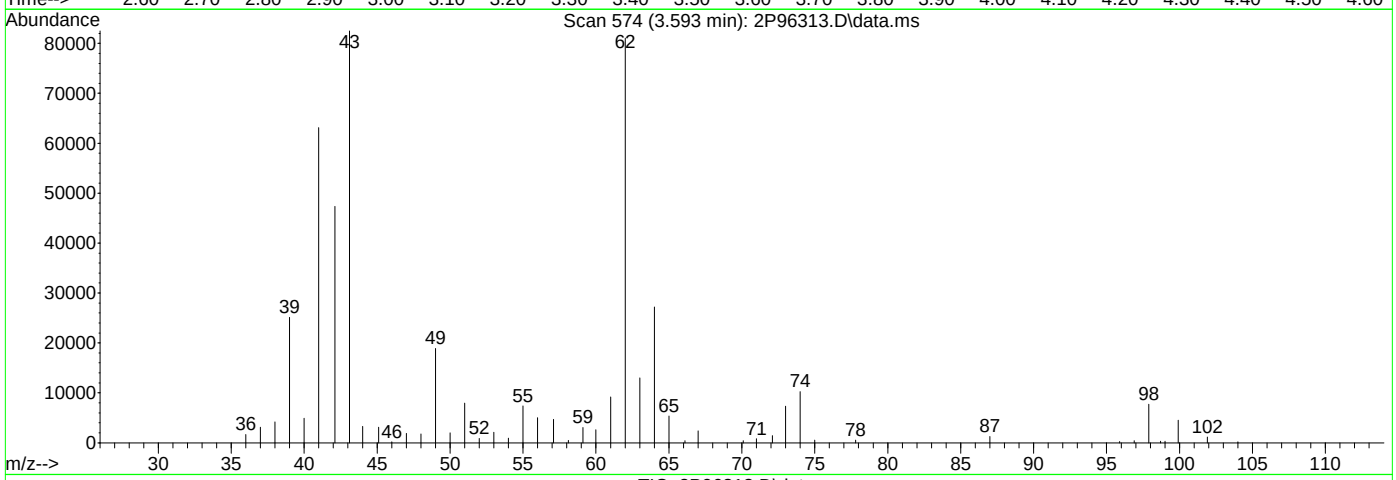
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	56.78
41.10	71.90	72.79
39.00	26.60	29.46

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P1658-59\
Data File : 2P96313.D
Acq On : 13 Dec 2022 8:54 pm
Operator : courtnef
Sample : FC1200-5MS, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Dec 13 21:23:49 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96313.D\data.ms

(50) Isobutyl alcohol

3.593min (-0.003) 403.35ug/L m

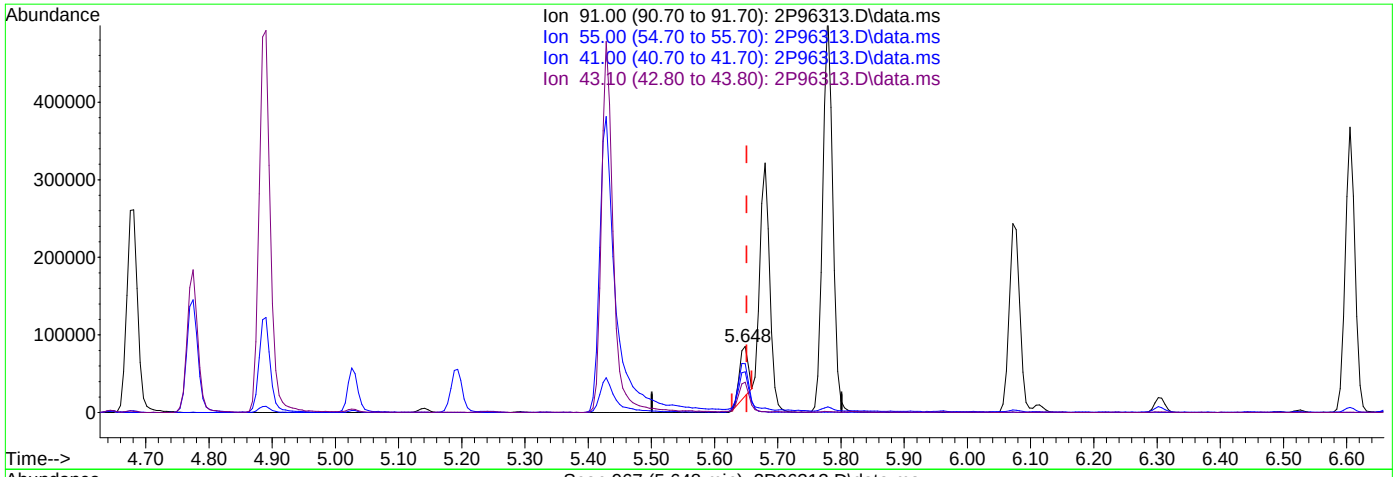
response 226931

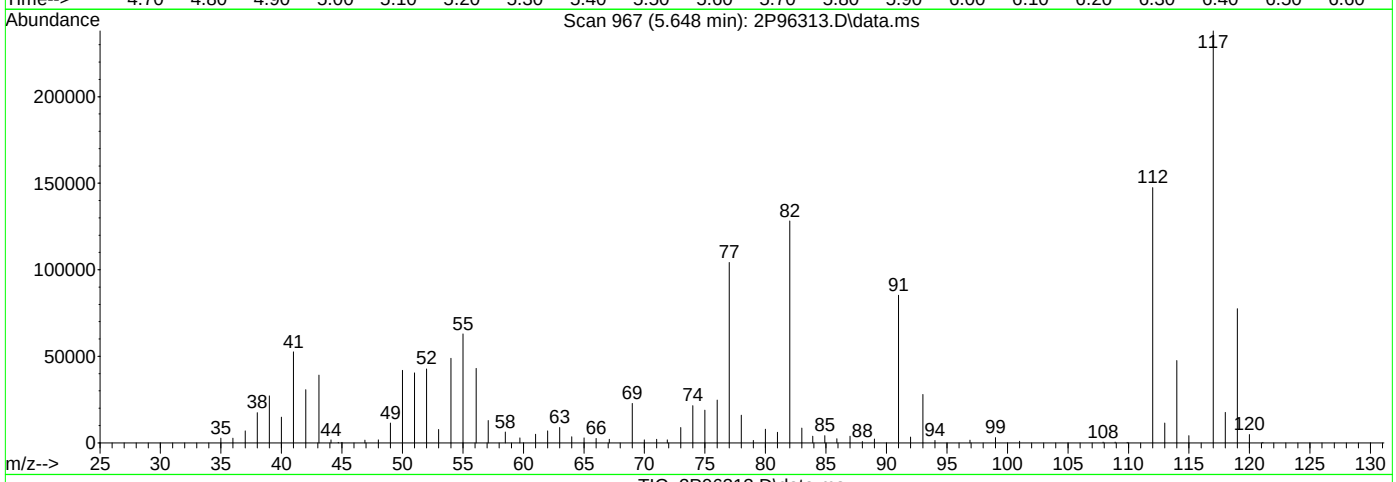
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	57.37
41.10	71.90	76.53
39.00	26.60	30.43

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P1658-59\
Data File : 2P96313.D
Acq On : 13 Dec 2022 8:54 pm
Operator : courtnef
Sample : FC1200-5MS, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Dec 13 21:23:49 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96313.D\data.ms

(76) 1-Chlorohexane

5.648min (-0.003) 14.75ug/L

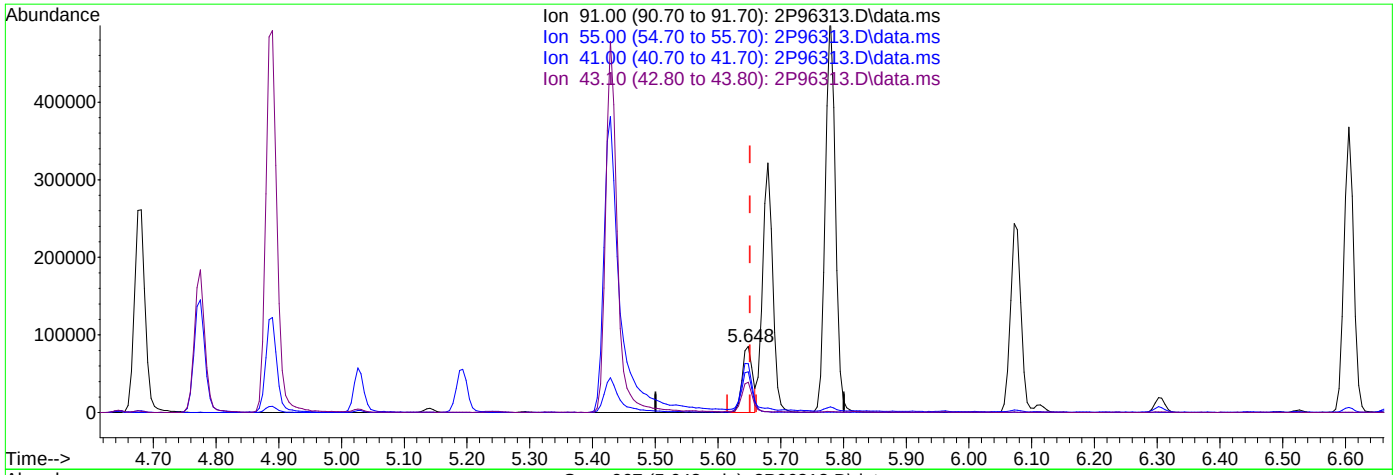
response 65921

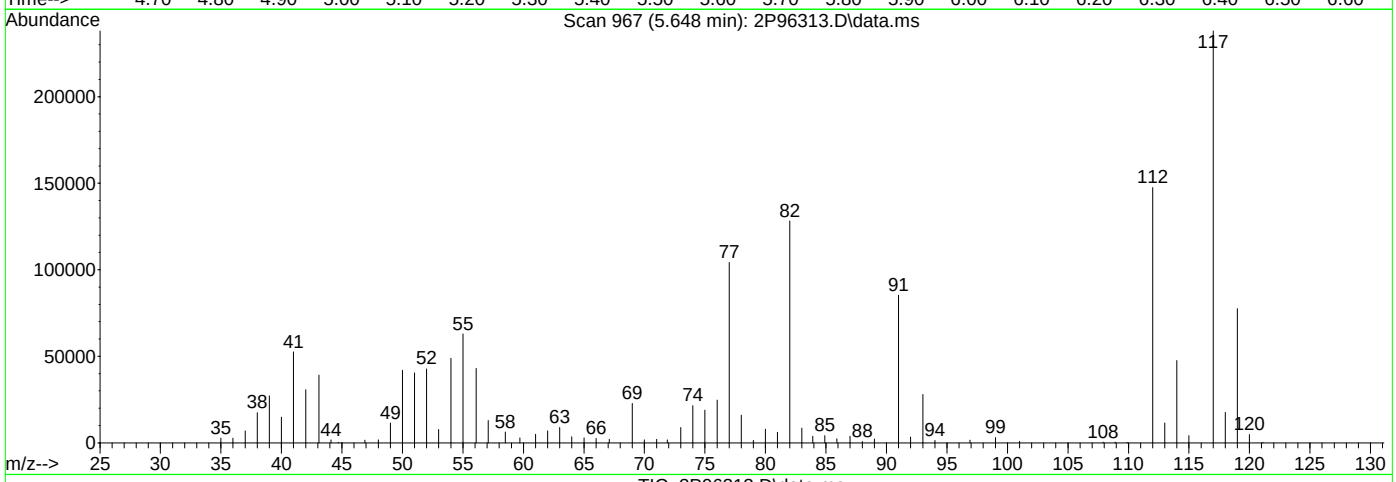
Ion	Exp%	Act%
91.00	100	100
55.00	73.60	70.00
41.00	60.90	55.81
43.10	49.80	44.13

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P1658-59\
Data File : 2P96313.D
Acq On : 13 Dec 2022 8:54 pm
Operator : courtnef
Sample : FC1200-5MS, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Dec 13 21:23:49 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96313.D\data.ms

(76) 1-Chlorohexane

5.648min (-0.003) 21.79ug/L m

response 97363

Ion	Exp%	Act%
91.00	100	100
55.00	73.60	73.72
41.00	60.90	61.61
43.10	49.80	45.81

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/14/22 01:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59
Data File : 2P96315.D
Acq On : 13 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-5MSD, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 22:37:19 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.716	96	783755	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.640	117	564696	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	260411	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.261	113	184101	56.21	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	112.42%		
49) 1,2-Dichloroethane-d4	3.548	65	259264	55.02	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery =	110.04%		
63) Toluene-d8	4.647	98	772945	48.14	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery =	96.28%		
86) 4-Bromofluorobenzene	6.493	174	219151	54.91	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	109.82%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.122	85	104416	35.00	ug/L	99
3) Chloromethane	1.247	50	83497	24.89	ug/L	97
4) 1,3-butadiene	1.320	39	79517	22.74	ug/L	90
5) Vinyl Chloride	1.305	62	77991	21.32	ug/L	95
6) Bromomethane	1.509	94	23226	13.60	ug/L	88
7) Chloroethane	1.582	64	39516	37.20	ug/L	96
8) Trichlorofluoromethane	1.671	101	112691	27.40	ug/L	98
9) Ethyl Ether	1.880	59	63798	20.70	ug/L	99
10) Ethanol	1.969	45	42330	413.67	ug/L	92
11) 1,2-Dichlorotrifluoroe...	1.974	67	88883	25.13	ug/L	95
12) 1,1-Dichloroethene	1.979	61	114154	26.32	ug/L	98
13) Freon 113	2.016	101	73131	27.94	ug/L	90
14) Carbon Disulfide	2.000	76	205388	25.18	ug/L	95
15) Iodomethane	2.058	142	43535	22.41	ug/L	100
16) Acrolein	2.152	56	107379	112.34	ug/L	96
17) Allyl chloride	2.246	41	105038	26.55	ug/L	92
18) Methylene Chloride	2.298	49	90745	19.11	ug/L	97
19) Acetone	2.314	43	226296	105.44	ug/L	99
20) Methyl acetate	2.393	43	477719	104.98	ug/L	96
21) trans-1,2-Dichloroethene	2.398	61	106243	24.59	ug/L	99
22) Hexane	2.466	56	54886	23.23	ug/L	95
23) Methyl Tert Butyl Ether	2.471	73	254718	24.96	ug/L	93
24) Tert Butyl Alcohol	2.508	59	286894	269.23	ug/L	98
25) Acetonitrile	2.555	41	146699	189.35	ug/L	98
26) Di-isopropyl ether	2.685	45	235228	22.38	ug/L	97
27) Chloroprene	2.727	53	365679	23.52	ug/L	99
28) 1,1-Dichloroethane	2.727	63	142330	25.30	ug/L	99
29) Acrylonitrile	2.727	52	230257	112.55	ug/L	99
30) ETBE	2.879	59	241513	23.50	ug/L	96
31) Vinyl acetate	2.858	43	995228	123.25	ug/L	99
32) cis-1,2-Dichloroethene	3.020	96	139980	44.79	ug/L	94
33) 2,2-Dichloropropane	3.083	77	108228	23.41	ug/L	99
34) Bromochloromethane	3.125	128	37763	29.54	ug/L #	86
35) Cyclohexane	3.161	56	130965	25.83	ug/L	99
36) Chloroform	3.167	83	146502	26.49	ug/L	97
37) Ethyl acetate	3.224	43	624675	109.43	ug/L	98
38) Tetrahydrofuran	3.256	42	49017	21.88	ug/L	97
40) Carbon Tetrachloride	3.266	117	110622m	32.06	ug/L	
41) 1,1,1-Trichloroethane	3.292	97	137841	30.09	ug/L	96
42) 2-Butanone	3.313	43	369089	106.88	ug/L	98
43) 1,1-Dichloropropene	3.360	75	107445	25.47	ug/L	93
44) tert-Butyl formate	3.407	59	213622	88.82	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96315.D
Acq On : 13 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-5MSD, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 22:37:19 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	3.459	54	213190	229.31	ug/L		99
46) Methacrylonitrile	3.480	41	673126	208.39	ug/L		96
47) Benzene	3.491	78	301843	22.48	ug/L		98
48) TAME	3.564	73	235632	24.25	ug/L		96
50) Isobutyl alcohol	3.590	43	242212m	412.48	ug/L		
51) 1,2-Dichloroethane	3.585	62	117779	25.78	ug/L		96
52) Tert Amyl Alcohol	3.648	59	203469	239.47	ug/L		96
53) Trichloroethene	3.820	95	243854	75.37	ug/L		99
54) Methylcyclohexane	3.841	83	125961	27.88	ug/L		93
55) Dibromomethane	4.045	93	45865	25.27	ug/L		97
56) 1,2-Dichloropropane	4.103	63	70235	21.71	ug/L		97
57) Bromodichloromethane	4.145	83	99494	28.41	ug/L		96
58) Methyl methacrylate	4.234	41	86811	22.74	ug/L		96
59) 1,4-Dioxane	4.254	88	41887	518.66	ug/L		97
61) cis-1,3-Dichloropropene	4.516	75	116105	24.31	ug/L		94
64) Toluene	4.678	91	332936	22.82	ug/L		98
65) 2-Nitropropane	4.772	41	187772	123.68	ug/L		99
66) 4-Methyl-2-pentanone	4.887	43	639155	102.16	ug/L		97
67) trans-1,3-Dichloropropene	4.913	75	117776	27.06	ug/L		96
68) Tetrachloroethene	4.934	166	76496	26.50	ug/L		97
69) Ethyl methacrylate	5.029	69	108055	22.37	ug/L		89
70) 1,1,2-Trichloroethane	5.018	83	58770	22.88	ug/L		91
71) Dibromochloromethane	5.138	129	73046	28.95	ug/L		96
72) 1,3-Dichloropropane	5.191	76	122701	21.84	ug/L		93
73) 1,2-Dibromoethane	5.290	107	71695	24.31	ug/L		97
74) 3,3-dimethyl-1-butanol	5.426	57	942206	994.67	ug/L		95
75) 2-hexanone	5.426	43	660316	98.76	ug/L		97
76) 1-Chlorohexane	5.646	91	105325m	22.94	ug/L		
77) Ethylbenzene	5.677	91	372587	23.62	ug/L		98
78) Chlorobenzene	5.651	112	197277	23.33	ug/L		98
79) 1,1,1,2-Tetrachloroethane	5.693	131	74707	29.04	ug/L		92
80) m,p-Xylene	5.776	91	590972	47.76	ug/L		98
81) o-Xylene	6.075	91	296612	24.30	ug/L		97
82) Styrene	6.106	104	211502	24.14	ug/L		96
83) Bromoform	6.116	173	44721	33.11	ug/L		96
84) Isopropylbenzene	6.305	105	338408	24.33	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.524	53	25709	16.36	ug/L		89
88) n-Propylbenzene	6.603	91	401506	22.08	ug/L		98
89) Bromobenzene	6.566	156	75403	23.08	ug/L		95
90) 1,1,2,2-Tetrachloroethane	6.624	83	110917	21.82	ug/L		95
91) 1,3,5-Trimethylbenzene	6.754	105	274311	22.68	ug/L		99
92) 2-Chlorotoluene	6.707	91	245815	22.55	ug/L		98
93) trans-1,4-Dichloro-2-B...	6.754	53	34664	18.74	ug/L		95
94) 1,2,3-Trichloropropane	6.723	110	38214	21.41	ug/L		88
95) Cyclohexanone	6.744	55	30423	85.87	ug/L		92
96) 4-Chlorotoluene	6.828	91	259692	22.88	ug/L		100
97) tert-Butylbenzene	6.990	91	159110	23.03	ug/L		95
99) 1,2,4-Trimethylbenzene	7.042	105	274173	23.57	ug/L		96
100) Pentachloroethane	6.990	167	46394	31.58	ug/L	#	70
101) sec-Butylbenzene	7.126	105	311218	23.43	ug/L		98
102) 4-Isopropyltoluene	7.241	119	269289	24.03	ug/L		99
103) 1,3-Dichlorobenzene	7.272	146	141140	23.65	ug/L		99
104) 1,2,3-Trimethylbenzene	7.366	105	292696	25.24	ug/L		99
105) 1,4-Dichlorobenzene	7.340	146	146209	23.36	ug/L		98
106) n-Butylbenzene	7.555	92	117061	20.23	ug/L		98
107) Benzyl Chloride	7.518	126	32005	21.92	ug/L	#	92
108) 1,2-Dichlorobenzene	7.649	146	136398	24.17	ug/L		93
109) 1,2-Dibromo-3-Chloropr...	8.198	75	26498	23.63	ug/L		87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96315.D
Acq On : 13 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-5MSD, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 22:37:19 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

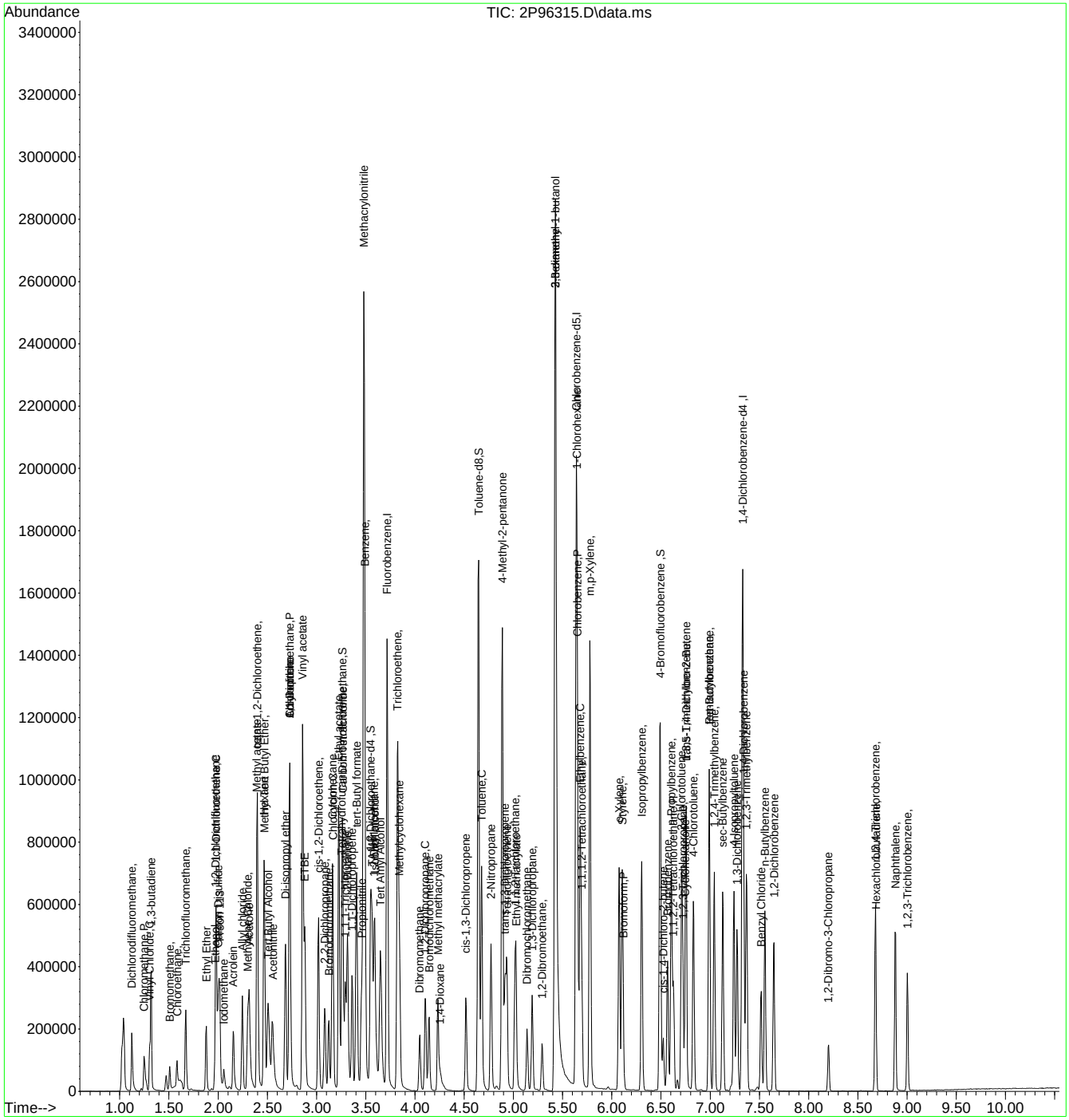
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) Hexachlorobutadiene	8.684	225	29356	29.35	ug/L	82
111) 1,2,4-Trichlorobenzene	8.679	180	70089	23.74	ug/L	97
112) Naphthalene	8.883	128	252646	20.65	ug/L	98
113) 1,2,3-Trichlorobenzene	9.003	180	67555	24.49	ug/L	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96315.D
Acq On : 13 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-5MSD, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 22:37:19 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



Manual Integration Approval Summary

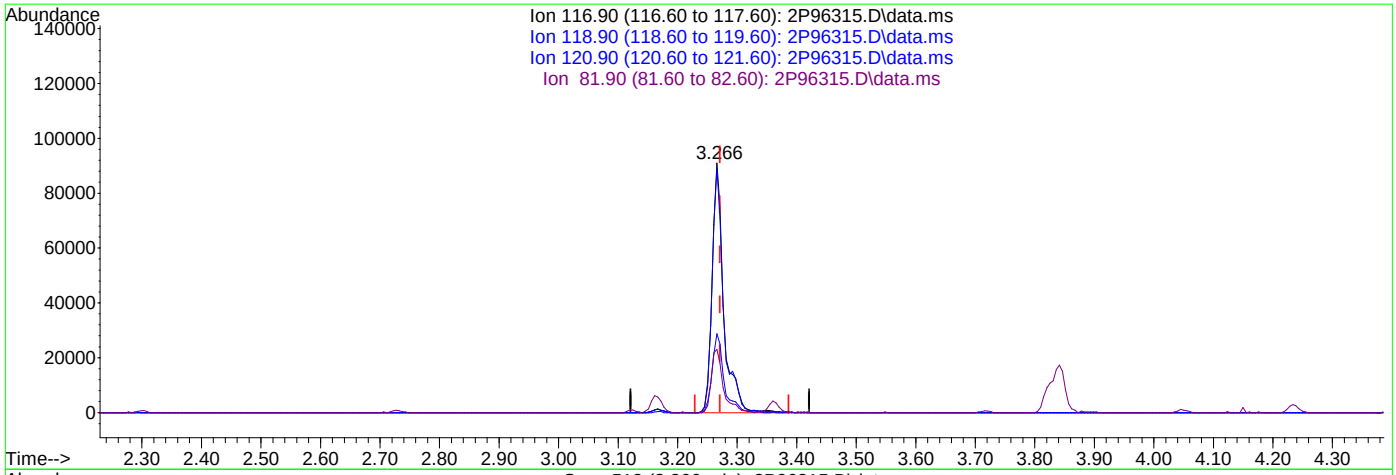
Sample Number: FC1200-5MSD
Lab FileID: 2P96315.D
Injection Time: 12/13/22 21:26
Method: SW846 8260D
Analyst approved: 12/13/22 22:41 Celine Celis
Supervisor approved: 12/14/22 01:26 Jennifer Fereira

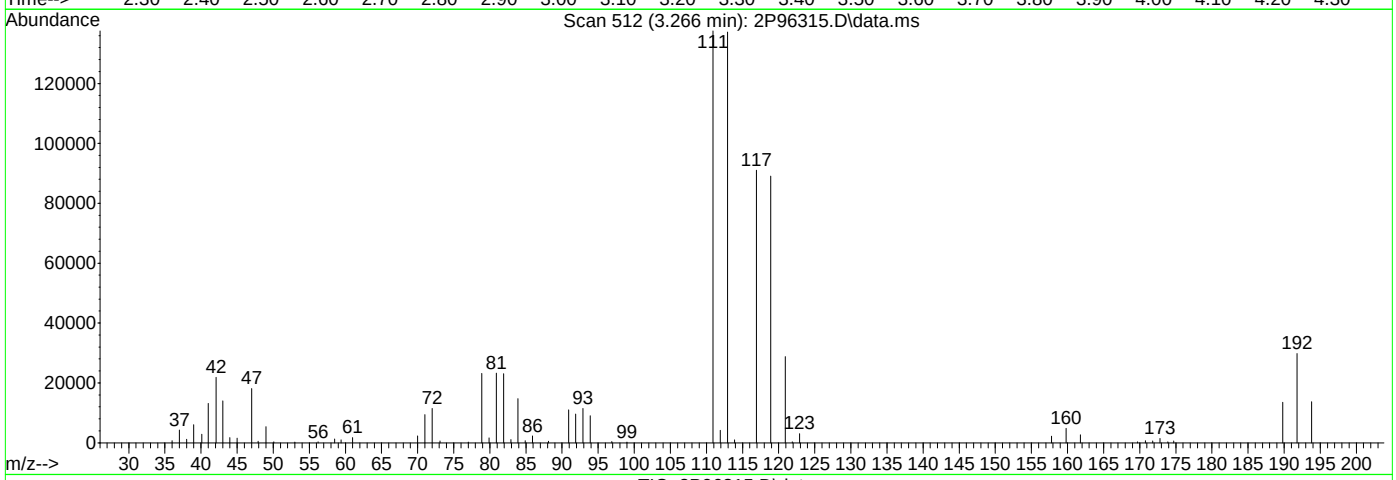
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96315.D
Acq On : 13 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-5MSD, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 22:36:05 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96315.D\data.ms

(40) Carbon Tetrachloride ( )

3.266min (-0.005) 36.33ug/L

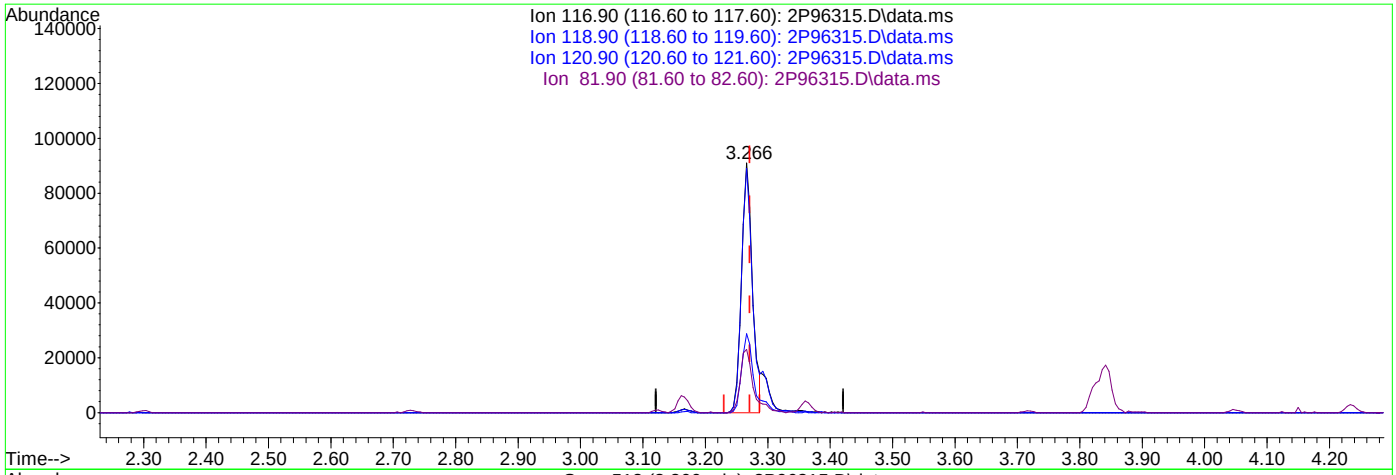
response 125346

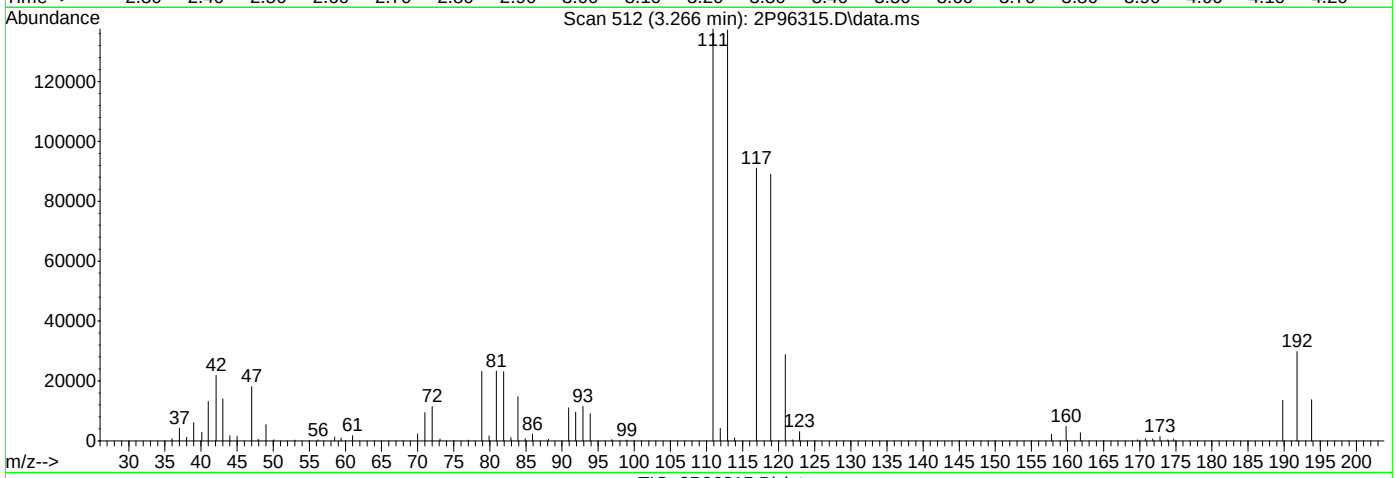
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	97.87
120.90	30.80	31.58
81.90	27.00	25.34

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96315.D
Acq On : 13 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-5MSD, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 22:36:05 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96315.D\data.ms

(40) Carbon Tetrachloride ( )

3.266min (-0.005) 32.06ug/L m

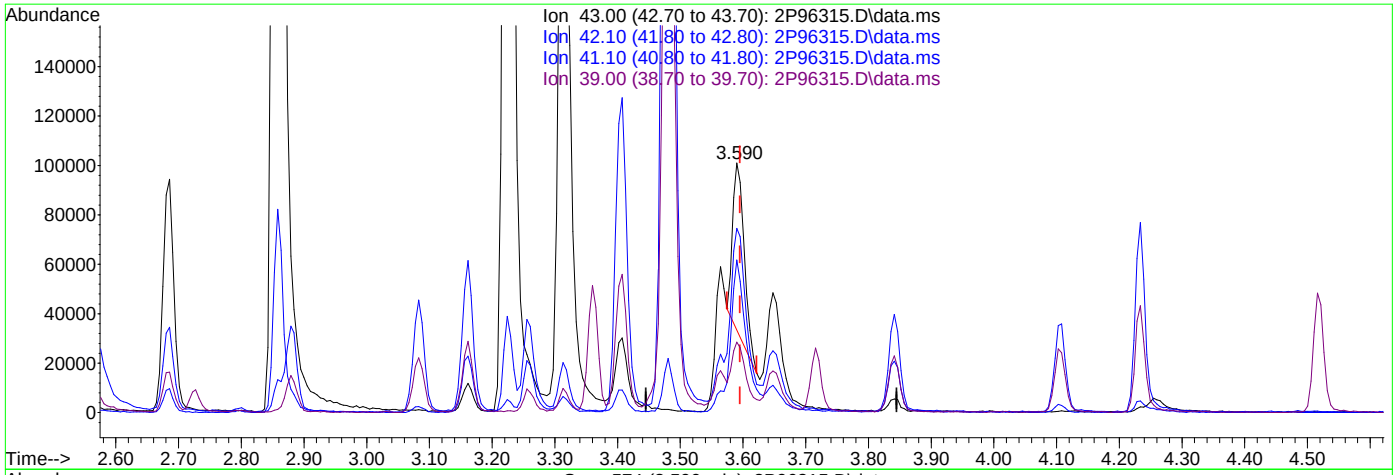
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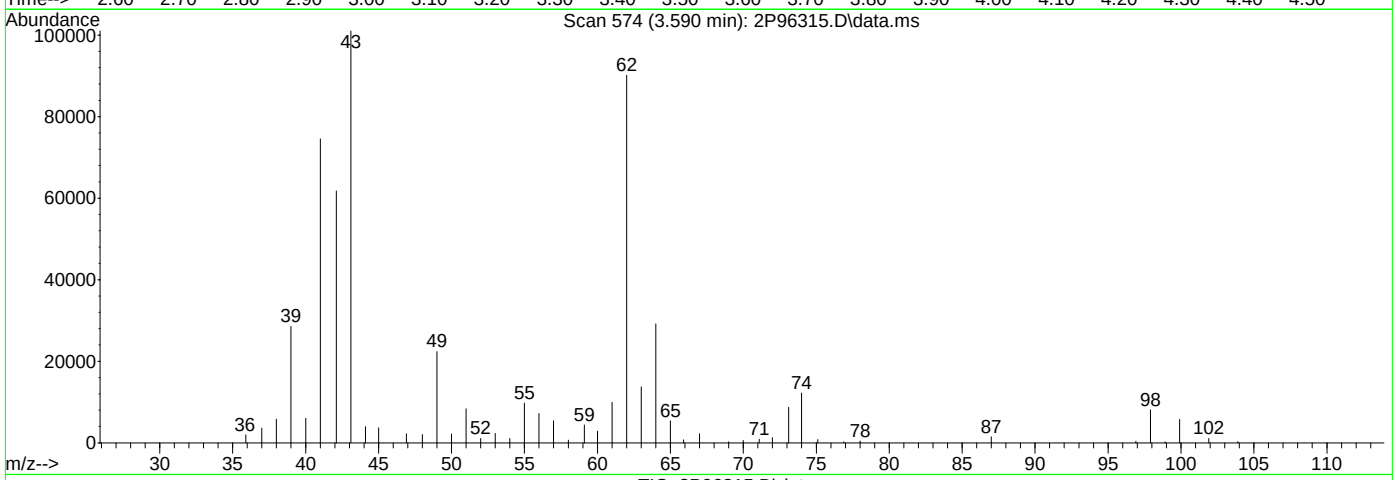
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	97.87
120.90	30.80	31.58
81.90	27.00	25.34

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96315.D
Acq On : 13 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-5MSD, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 22:36:05 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96315.D\data.ms

(50) Isobutyl alcohol

3.590min (-0.005) 142.99ug/L

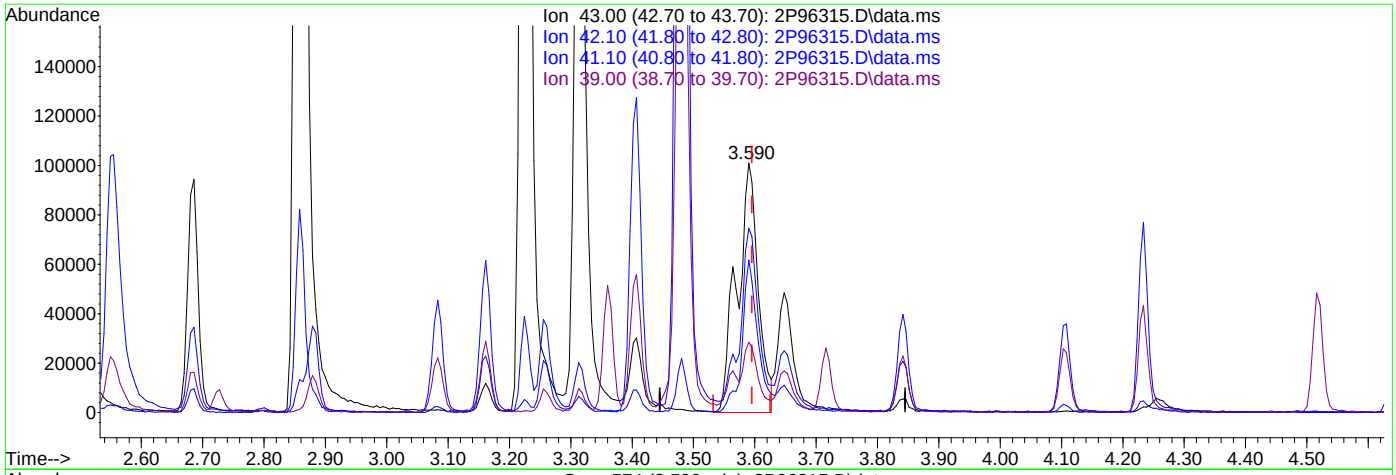
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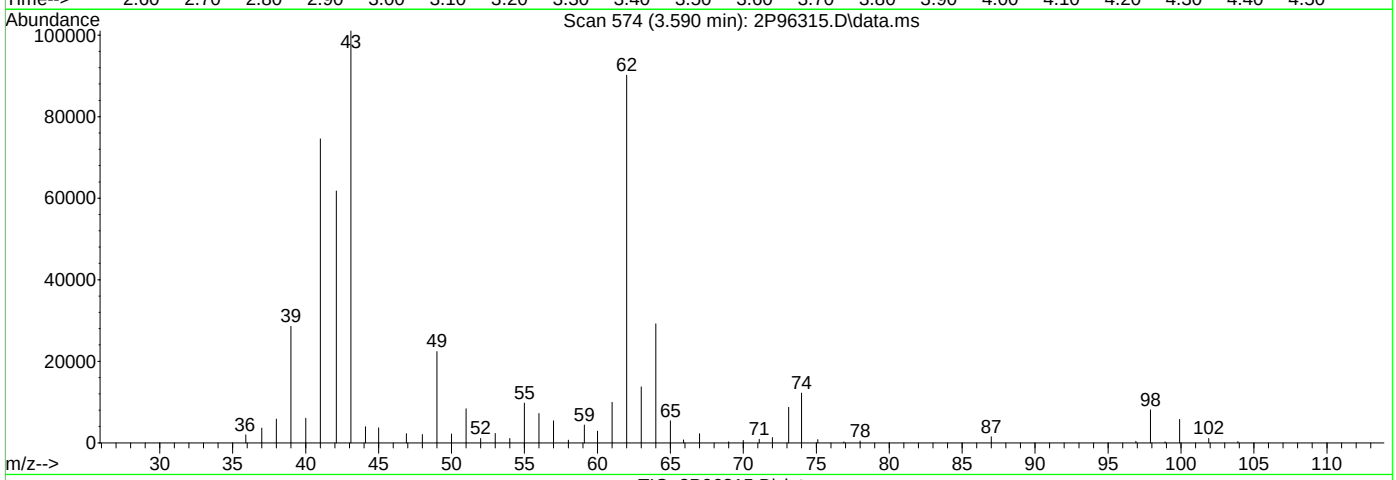
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	61.56
41.10	71.90	74.18
39.00	26.60	27.41

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96315.D
Acq On : 13 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-5MSD, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 22:36:05 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96315.D\data.ms

(50) Isobutyl alcohol

3.590min (-0.005) 412.48ug/L m

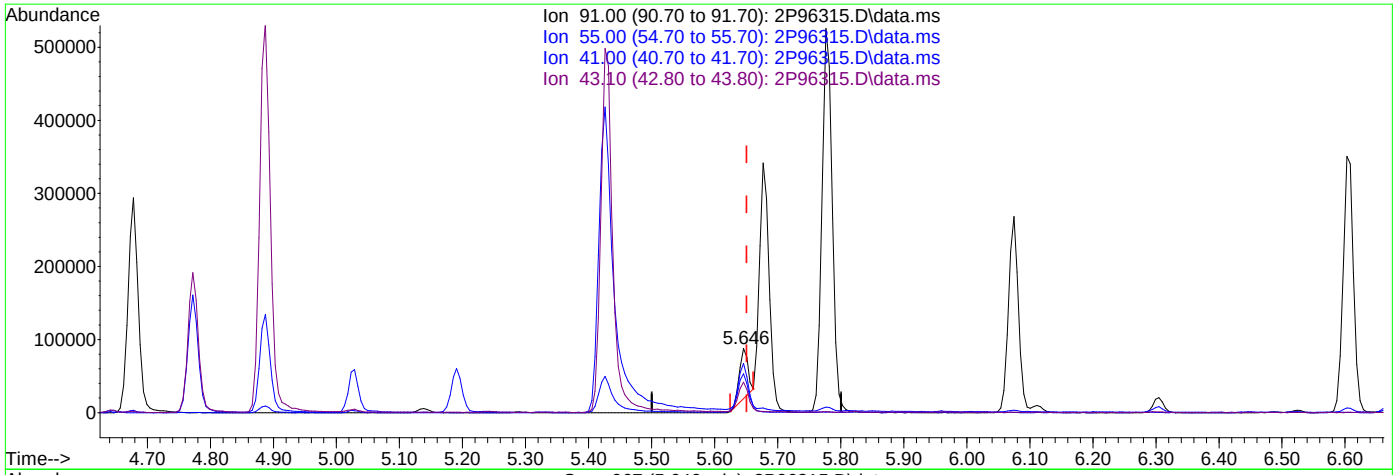
response 242212

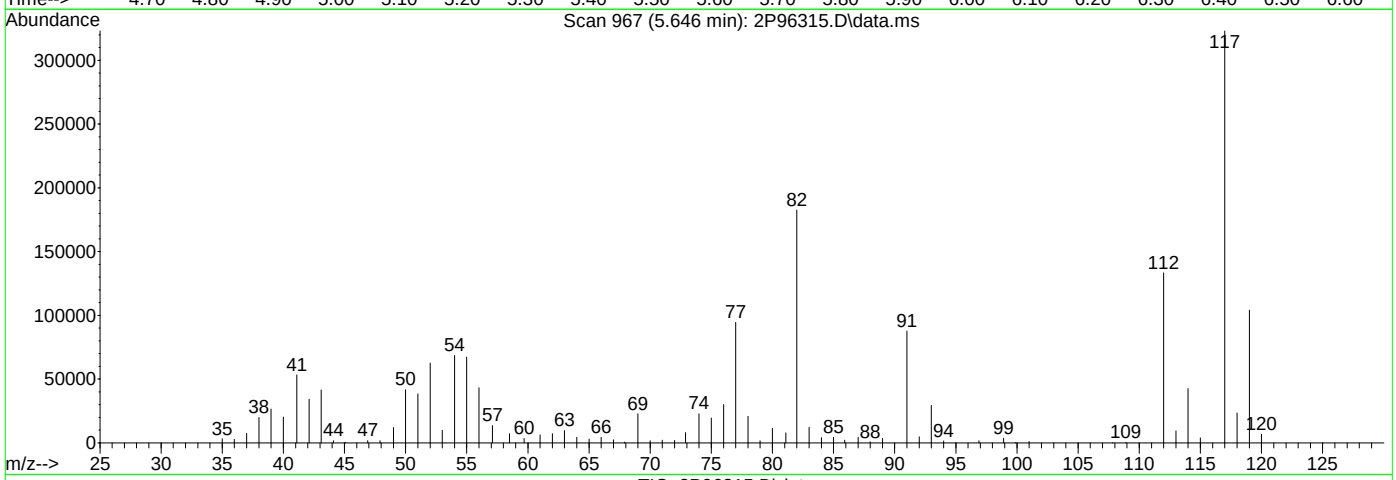
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	61.15
41.10	71.90	73.80
39.00	26.60	28.28

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96315.D
Acq On : 13 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-5MSD, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 22:36:05 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96315.D\data.ms

(76) 1-Chlorohexane

5.646min (-0.005) 14.84ug/L

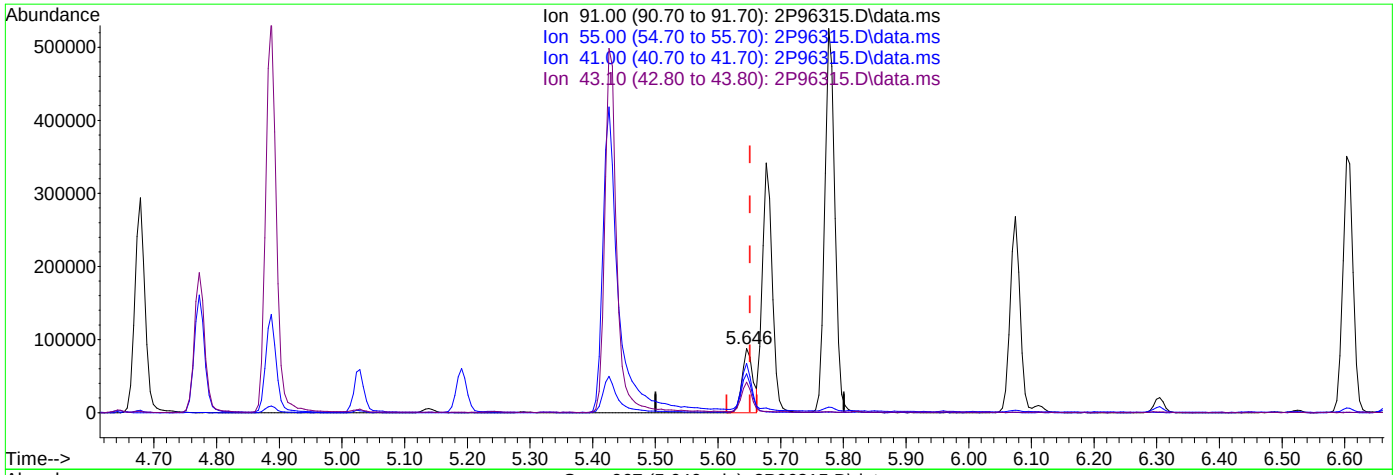
response 68154

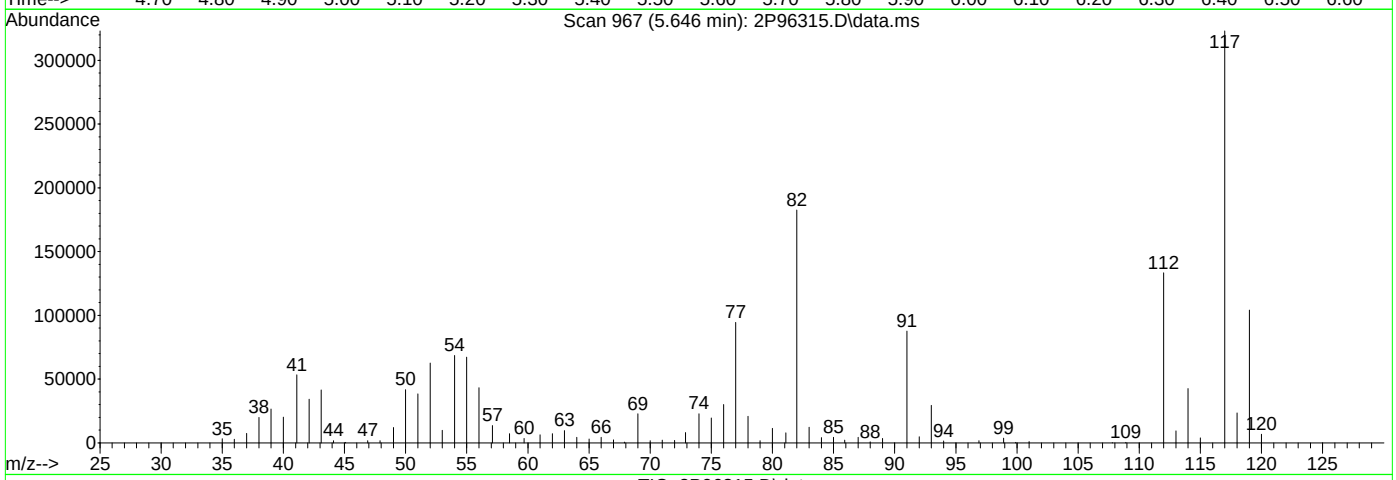
Ion	Exp%	Act%
91.00	100	100
55.00	73.60	75.35
41.00	60.90	55.68
43.10	49.80	45.63

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96315.D
Acq On : 13 Dec 2022 9:26 pm
Operator : courtnef
Sample : FC1200-5MSD, 10X
Misc : MS52987,V2P3658,,,,,10
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Dec 13 22:36:05 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96315.D\data.ms

(76) 1-Chlorohexane

5.646min (-0.005) 22.94ug/L m

response 105325

Ion	Exp%	Act%
91.00	100	100
55.00	73.60	76.74
41.00	60.90	60.88
43.10	49.80	47.45

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira
12/16/22 02:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42163.d
Acq On : 14 Dec 2022 3:17 pm
Operator : joannel
Sample : FC1102-12MS 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:52:41 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	236862	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	177386	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.384	152	90836	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	65256	42.94	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 85.88%			
49) 1,2-Dichloroethane-d4	3.474	65	74933	48.10	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.20%			
63) Toluene-d8	4.605	98	228226	51.16	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.32%			
86) 4-Bromofluorobenzene	6.514	174	79198	51.17	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.034	85	32051	19.28	ug/L	99
3) Chloromethane	1.157	50	24955	16.24	ug/L	99
4) 1,3-butadiene	1.219	39	29480	26.16	ug/L	100
5) Vinyl Chloride	1.211	62	29787	19.27	ug/L	98
6) Bromomethane	1.411	94	14280	13.62	ug/L	99
7) Chloroethane	1.480	64	13510	22.08	ug/L	97
8) Trichlorofluoromethane	1.581	101	49747	21.26	ug/L	99
9) Ethyl Ether	1.773	59	19963	18.08	ug/L	98
10) Ethanol	1.842	45	6899	310.25	ug/L	93
11) 1,2-Dichlorotrifluoroe...	1.873	67	33085	19.23	ug/L	97
12) 1,1-Dichloroethene	1.881	61	42139	20.69	ug/L	90
13) Freon 113	1.911	101	30753	21.46	ug/L	99
14) Carbon Disulfide	1.896	76	78820	19.47	ug/L	100
15) Iodomethane	1.958	142	22825	15.65	ug/L	100
16) Acrolein	2.050	56	27736	85.96	ug/L	96
17) Allyl chloride	2.142	41	33591	18.32	ug/L	98
18) Methylene Chloride	2.196	49	30936	16.78	ug/L	98
19) Acetone	2.212	43	48960	99.63	ug/L	100
20) Methyl acetate	2.296	43	104509	91.45	ug/L	97
21) trans-1,2-Dichloroethene	2.296	61	39539	19.58	ug/L	97
22) Hexane	2.366	56	24868m	21.49	ug/L	
23) Methyl Tert Butyl Ether	2.366	73	81843	19.48	ug/L	95
24) Acetonitrile	2.366	41	47887m	213.29	ug/L	
25) Tert Butyl Alcohol	2.396	59	46358	182.79	ug/L	100
26) Di-isopropyl ether	2.589	45	73125	18.80	ug/L	98
27) Chloroprene	2.627	53	92818	19.40	ug/L	98
28) 1,1-Dichloroethane	2.635	63	51334	20.09	ug/L	97
29) Acrylonitrile	2.627	52	54557	94.09	ug/L	97
30) ETBE	2.789	59	78850	18.84	ug/L	99
31) Vinyl acetate	2.766	43	276705	100.13	ug/L	99
32) cis-1,2-Dichloroethene	2.935	96	32210	19.99	ug/L	92
33) 2,2-Dichloropropane	2.997	77	44064	18.97	ug/L	99
34) Bromochloromethane	3.035	128	16035	21.12	ug/L	95
35) Cyclohexane	3.074	56	51151	22.59	ug/L	99
36) Chloroform	3.081	83	55203	19.77	ug/L	98
37) Ethyl acetate	3.143	43	146287	95.13	ug/L	99
38) Tetrahydrofuran	3.174	42	9805	18.39	ug/L	92
40) Carbon Tetrachloride	3.181	117	42711m	20.59	ug/L	
41) 1,1,1-Trichloroethane	3.212	97	48380	20.70	ug/L	98
42) 2-Butanone	3.235	43	78504	90.00	ug/L	96
43) 1,1-Dichloropropene	3.281	75	41577	20.62	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42163.d
Acq On : 14 Dec 2022 3:17 pm
Operator : joannel
Sample : FC1102-12MS 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:52:41 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	tert-Butyl formate	3.328	59	78871	63.41	ug/L		96
45)	Propionitrile	3.381	54	45011	177.94	ug/L		95
46)	Methacrylonitrile	3.405	41	176588	190.64	ug/L		99
47)	Benzene	3.420	78	120160	20.54	ug/L		97
48)	TAME	3.497	73	82948	20.57	ug/L		99
50)	1,2-Dichloroethane	3.512	62	39591	19.41	ug/L		99
51)	Isobutyl Alcohol	3.512	43	56107m	756.25	ug/L		
52)	Tert Amyl Alcohol	3.574	59	36509	176.34	ug/L		97
53)	Trichloroethene	3.759	95	33624	20.38	ug/L		97
54)	Methylcyclohexane	3.774	83	64601	26.48	ug/L		99
55)	Dibromomethane	3.989	93	19242	19.07	ug/L		96
56)	1,2-Dichloropropane	4.051	63	28001	18.95	ug/L		98
57)	Bromodichloromethane	4.090	83	39031	19.94	ug/L		99
58)	Methyl methacrylate	4.182	41	32933	24.38	ug/L		98
59)	1,4-Dioxane	4.205	88	7483	362.30	ug/L		89
60)	2-Chloroethyl vinyl ether	4.436	63	3802	3.80	ug/L		99
61)	cis-1,3-Dichloropropene	4.474	75	44876	18.99	ug/L		97
64)	Toluene	4.644	91	138619	23.26	ug/L		99
65)	2-Nitropropane	4.736	41	36062	91.13	ug/L		92
66)	4-Methyl-2-pentanone	4.859	43	165207	99.92	ug/L		99
67)	trans-1,3-Dichloropropene	4.890	75	42385	22.13	ug/L		98
68)	Tetrachloroethene	4.905	166	38111	23.27	ug/L		97
69)	Ethyl methacrylate	5.005	69	34679	19.41	ug/L		98
70)	1,1,2-Trichloroethane	4.990	83	22830	21.46	ug/L		99
71)	Dibromochloromethane	5.121	129	28768	20.30	ug/L		99
72)	1,3-Dichloropropane	5.175	76	43149	20.33	ug/L		99
73)	1,2-Dibromoethane	5.275	107	30191	21.78	ug/L		100
74)	3,3-Dimethyl-1-Butanol	5.406	57	211014	993.69	ug/L		98
75)	2-hexanone	5.421	43	154059	99.24	ug/L		93
76)	1-Chlorohexane	5.644	91	47738m	24.59	ug/L		
77)	Ethylbenzene	5.675	91	396136m	62.38	ug/L		
78)	Chlorobenzene	5.644	112	83770	22.33	ug/L		97
79)	1,1,1,2-Tetrachloroethane	5.690	131	29562	22.10	ug/L		100
80)	m,p-Xylene	5.783	91	271378	54.29	ug/L		100
81)	o-Xylene	6.083	91	135869	26.31	ug/L		99
82)	Styrene	6.121	104	87430	21.95	ug/L		99
83)	Bromoform	6.121	173	19224	20.17	ug/L		98
84)	Isopropylbenzene	6.329	105	247870	40.72	ug/L		99
87)	cis-1,4-Dichloro-2-butene	6.552	53	8789	15.67	ug/L	#	88
88)	n-Propylbenzene	6.637	91	498867	70.53	ug/L		99
89)	Bromobenzene	6.591	156	35293	22.29	ug/L		97
90)	1,1,2,2-Tetrachloroethane	6.660	83	37998	21.70	ug/L		98
91)	1,3,5-Trimethylbenzene	6.791	105	177596	34.49	ug/L		98
92)	2-Chlorotoluene	6.745	91	103977	25.29	ug/L		99
93)	trans-1,4-Dichloro-2-B...	6.791	53	12451	20.26	ug/L		91
94)	1,2,3-Trichloropropane	6.752	110	10941	20.68	ug/L		91
95)	Cyclohexanone	6.768	55	6677	97.84	ug/L		98
96)	4-Chlorotoluene	6.868	91	96740	22.52	ug/L		99
97)	tert-Butylbenzene	7.037	91	66133	22.70	ug/L		97
98)	1,2,4-Trimethylbenzene	7.091	105	401261	81.50	ug/L		99
99)	Pentachloroethane	7.037	167	19157	23.41	ug/L	#	87
100)	sec-Butylbenzene	7.183	105	182023	30.09	ug/L		95
101)	4-Isopropyltoluene	7.299	119	156538	29.34	ug/L		99
102)	1,3-Dichlorobenzene	7.322	146	66736	23.40	ug/L		97
103)	1,2,3-Trimethylbenzene	7.430	105	140885	29.72	ug/L		99
104)	1,4-Dichlorobenzene	7.399	146	66447	22.71	ug/L		98
105)	n-Butylbenzene	7.630	92	76760	28.58	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42163.d
Acq On : 14 Dec 2022 3:17 pm
Operator : joannel
Sample : FC1102-12MS 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:52:41 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

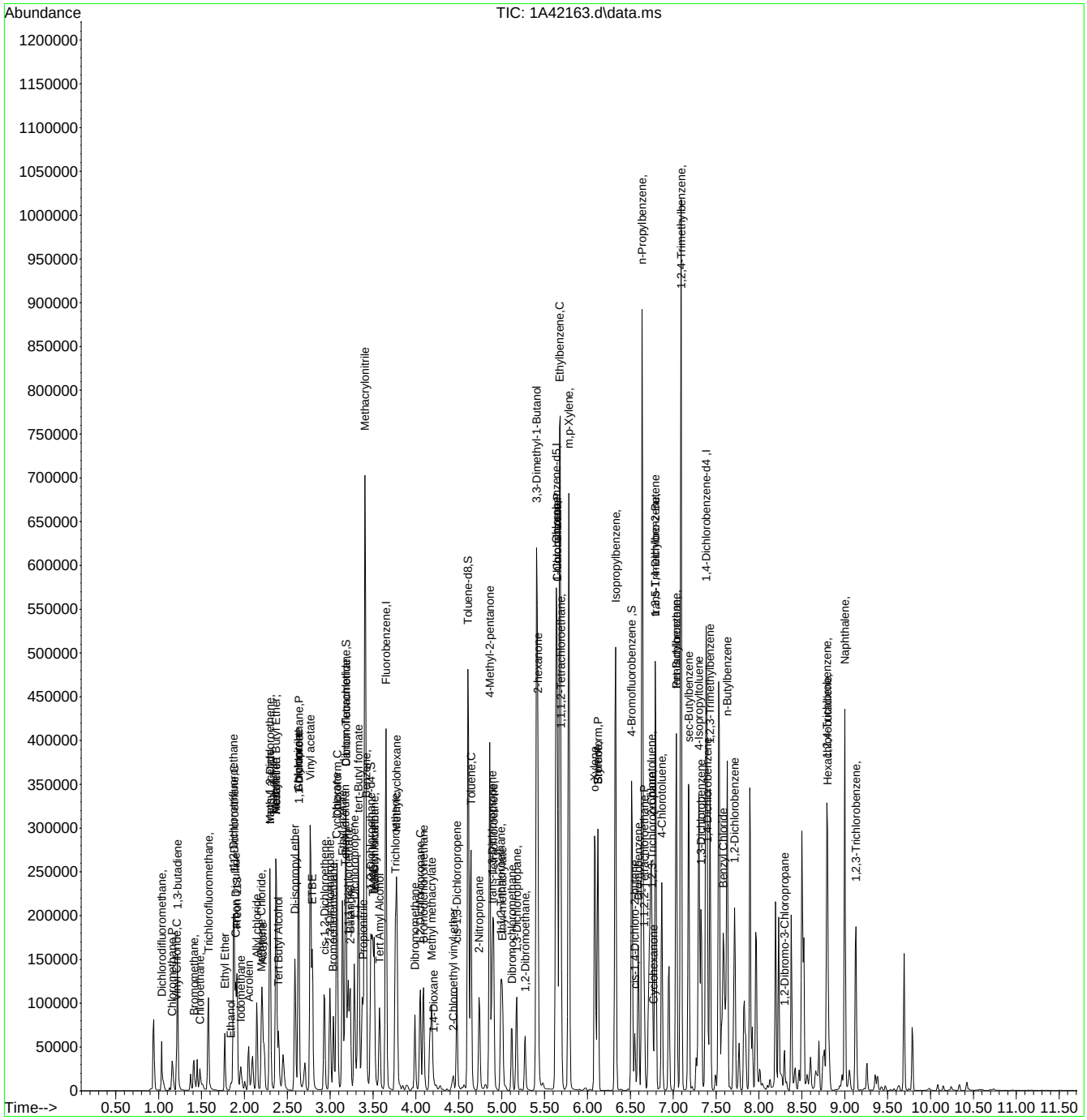
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) Benzyl Chloride	7.584	126	12618	18.48	ug/L	95
107) 1,2-Dichlorobenzene	7.715	146	60814	22.91	ug/L	98
108) 1,2-Dibromo-3-Chloropr...	8.299	75	6856	20.11	ug/L	97
109) Hexachlorobutadiene	8.800	225	24122	24.50	ug/L	98
110) 1,2,4-Trichlorobenzene	8.792	180	41957	22.80	ug/L	98
111) Naphthalene	9.000	128	202886	40.16	ug/L	100
112) 1,2,3-Trichlorobenzene	9.131	180	39418	22.67	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42163.d
Acq On : 14 Dec 2022 3:17 pm
Operator : joannel
Sample : FC1102-12MS 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:52:41 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



Manual Integration Approval Summary

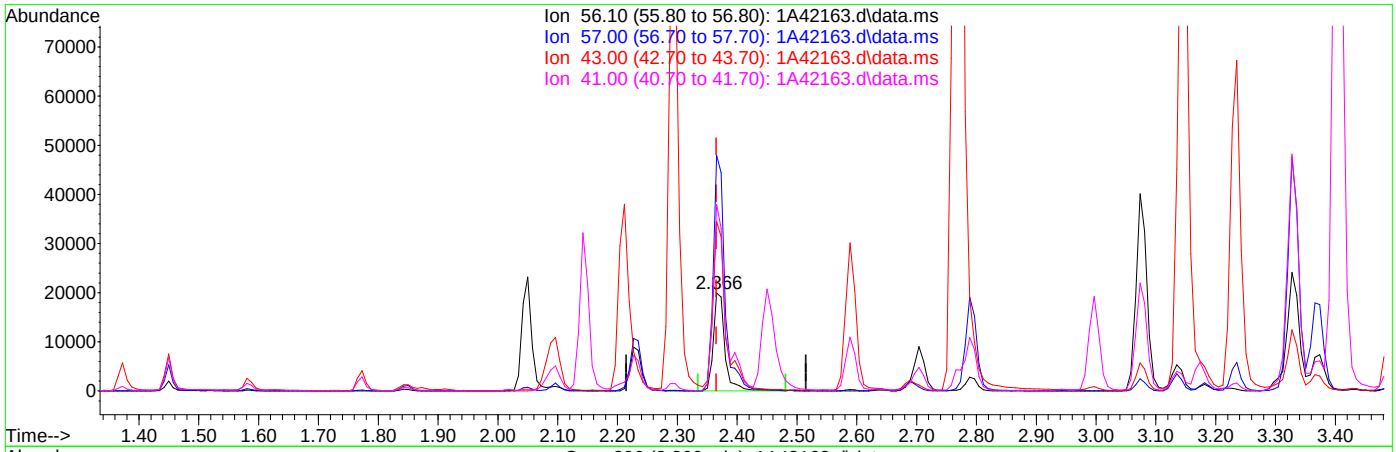
Sample Number: FC1102-12MS
Lab FileID: 1A42163.D
Injection Time: 12/14/22 15:17
Method: SW846 8260D
Analyst approved: 12/15/22 13:04 Jo-Ann Lugo De Jesus
Supervisor approved: 12/16/22 02:57 Jennifer Fereira

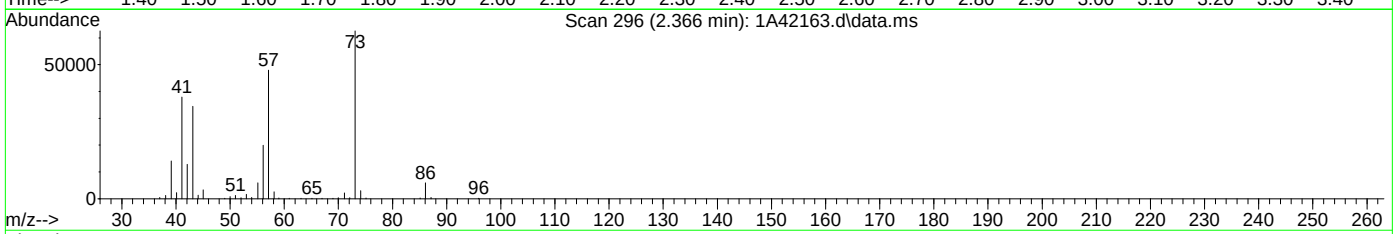
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		2.37	Overlapping peak
Acetonitrile	75-05-8		2.37	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.18	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration
Ethylbenzene	100-41-4		5.67	Poor instrument integration

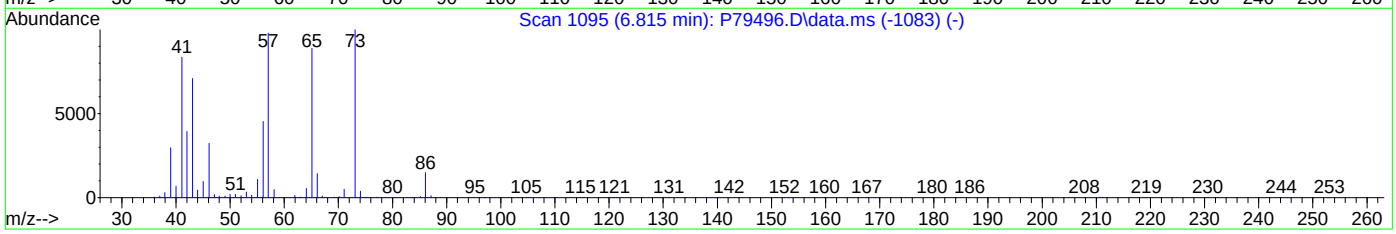
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42163.d
Acq On : 14 Dec 2022 3:17 pm
Operator : joannel
Sample : FC1102-12MS 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42163.d\data.ms

(22) Hexane

2.366min (+0.001) 23.22ug/L

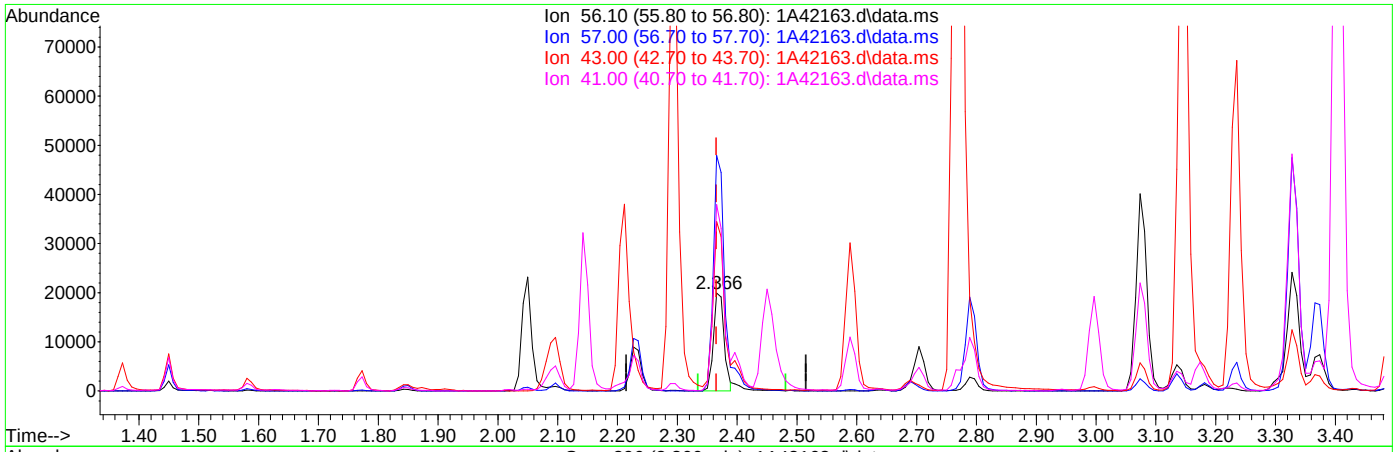
response 26878

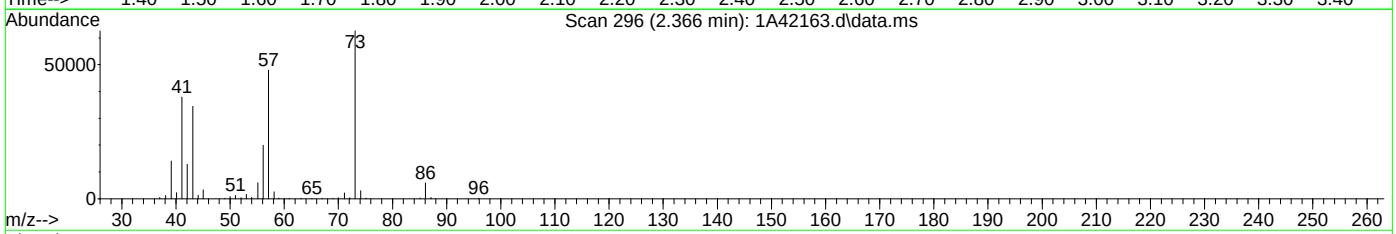
Ion	Exp%	Act%
56.10	100	100
57.00	243.90	240.41
43.00	181.70	171.88
41.00	193.40	190.21

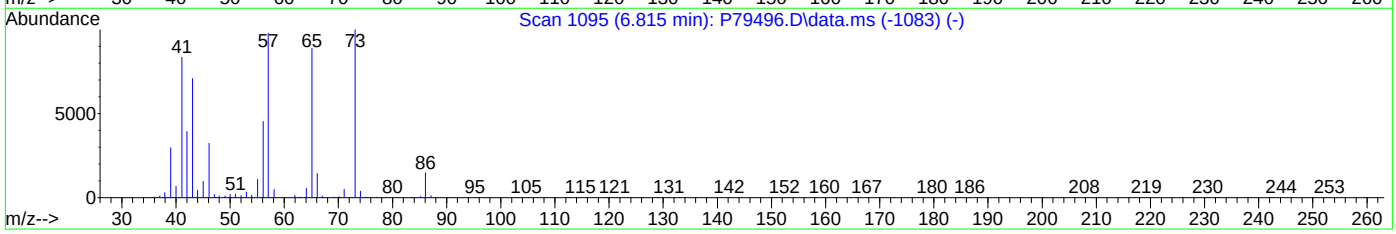
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42163.d
Acq On : 14 Dec 2022 3:17 pm
Operator : joannel
Sample : FC1102-12MS 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42163.d\data.ms

(22) Hexane

2.366min (+0.001) 21.49ug/L m

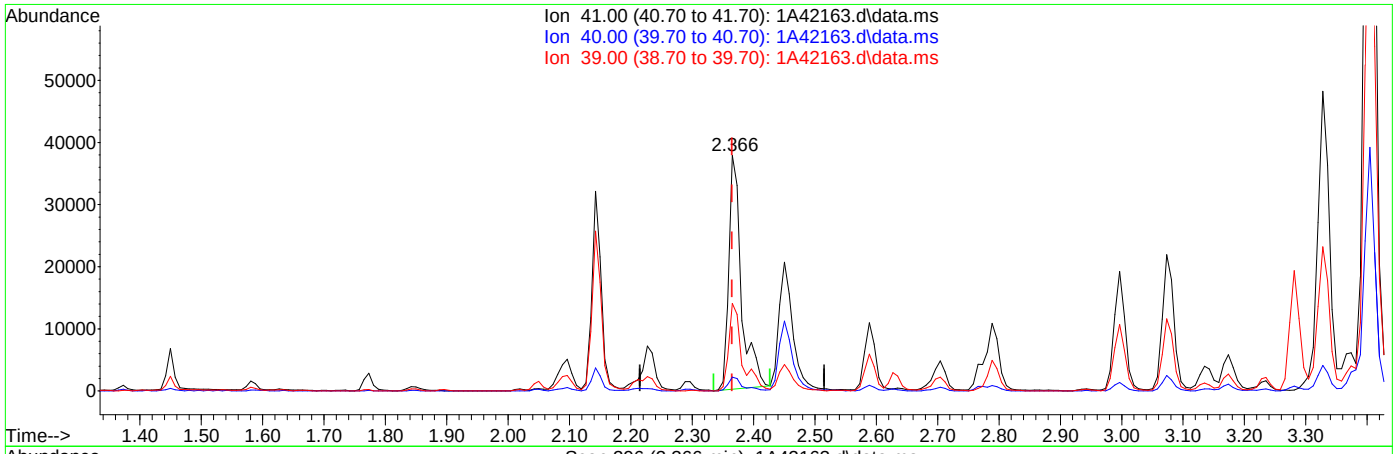
response 24868

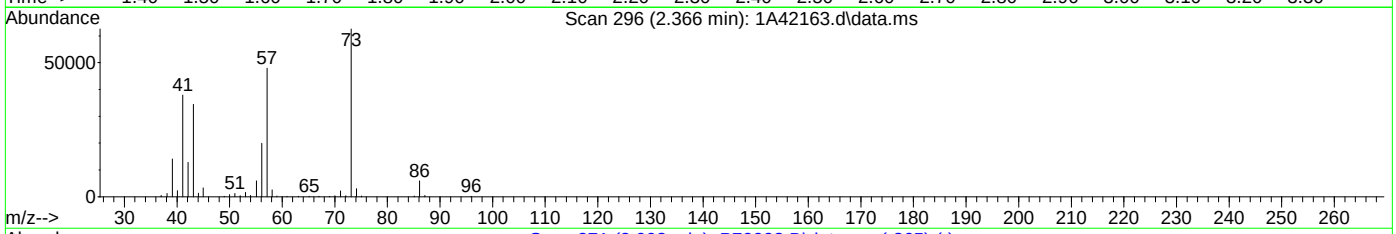
Ion	Exp%	Act%
56.10	100	100
57.00	243.90	240.41
43.00	181.70	172.99
41.00	193.40	190.21

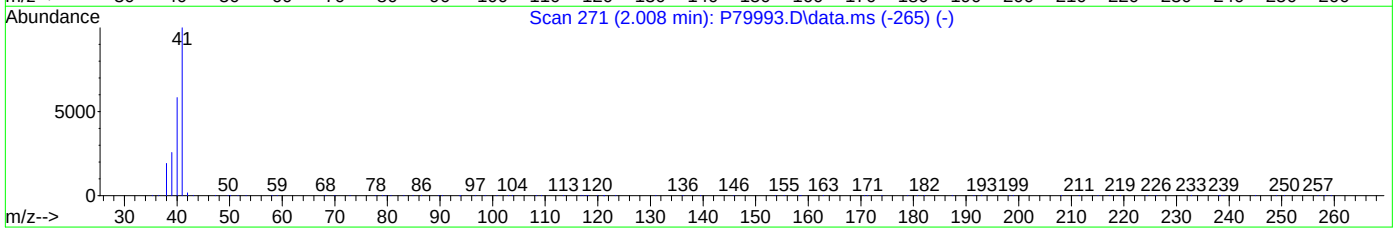
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42163.d
Acq On : 14 Dec 2022 3:17 pm
Operator : joannel
Sample : FC1102-12MS 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42163.d\data.ms

(24) Acetonitrile

2.366min (+0.001) 238.63ug/L

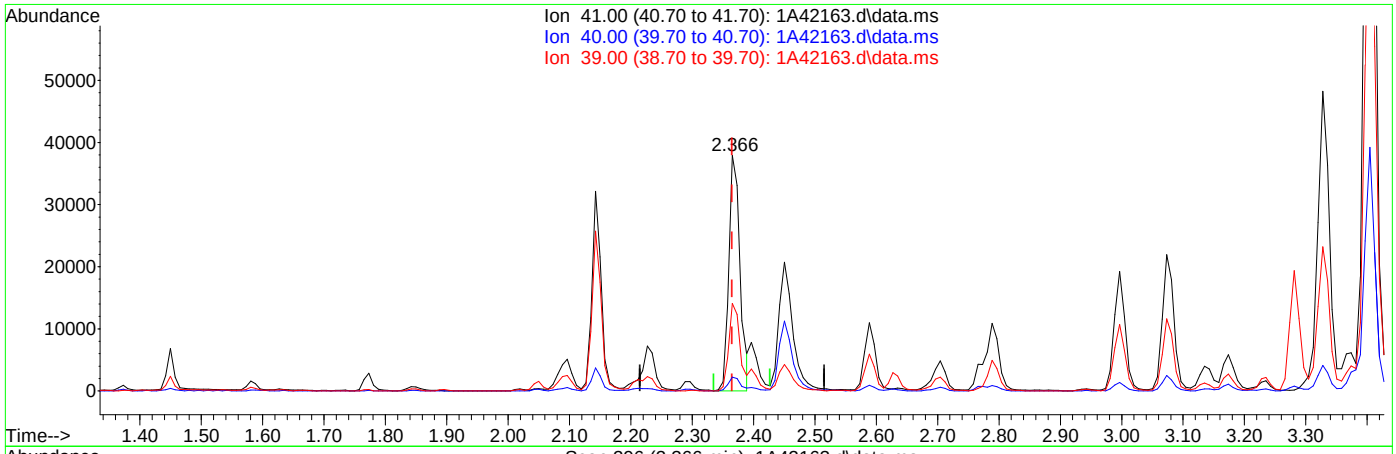
response 53576

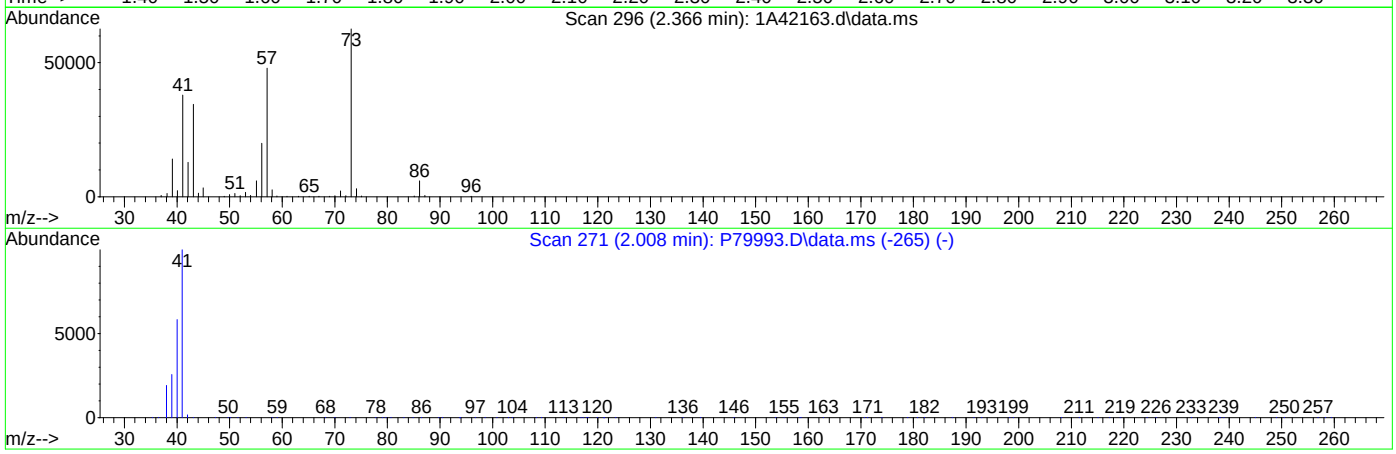
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	5.91
39.00	37.60	37.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42163.d
Acq On : 14 Dec 2022 3:17 pm
Operator : joannel
Sample : FC1102-12MS 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42163.d\data.ms

(24) Acetonitrile

2.366min (+0.001) 213.29ug/L m

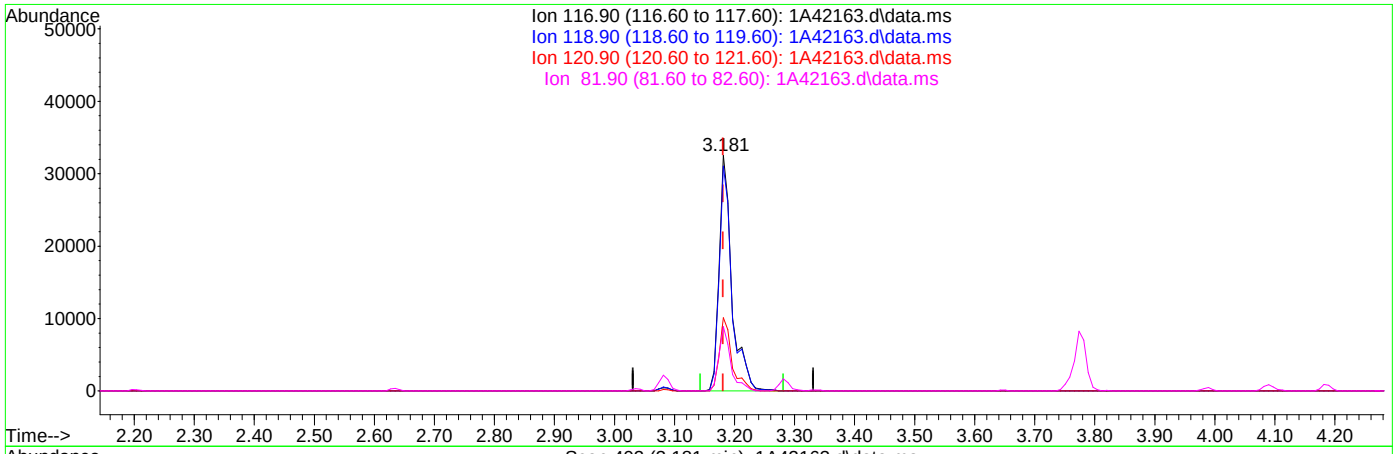
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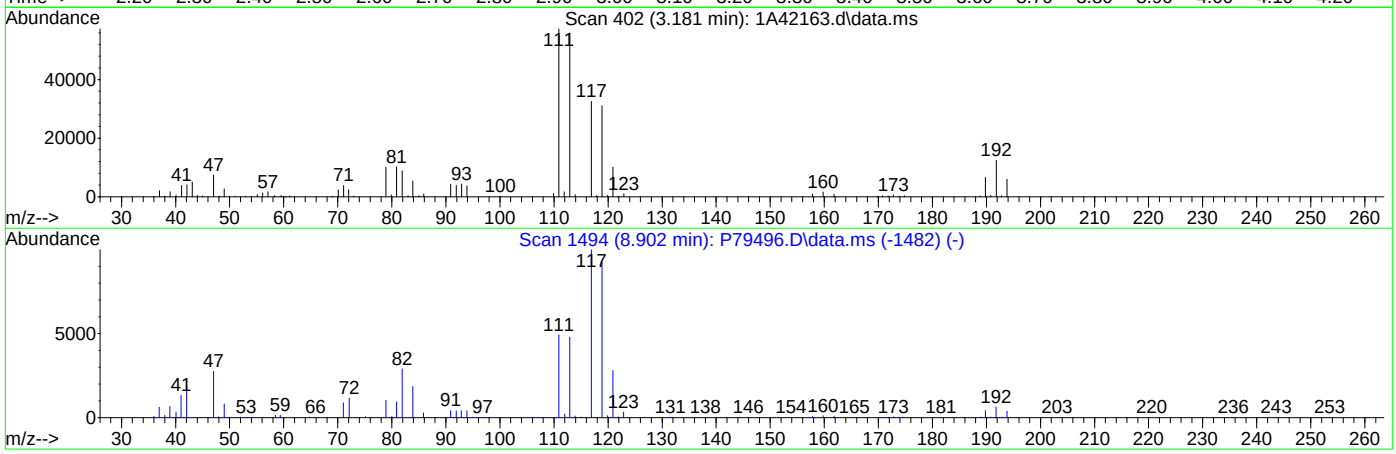
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	5.91
39.00	37.60	37.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42163.d
Acq On : 14 Dec 2022 3:17 pm
Operator : joannel
Sample : FC1102-12MS 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42163.d\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 23.23ug/L

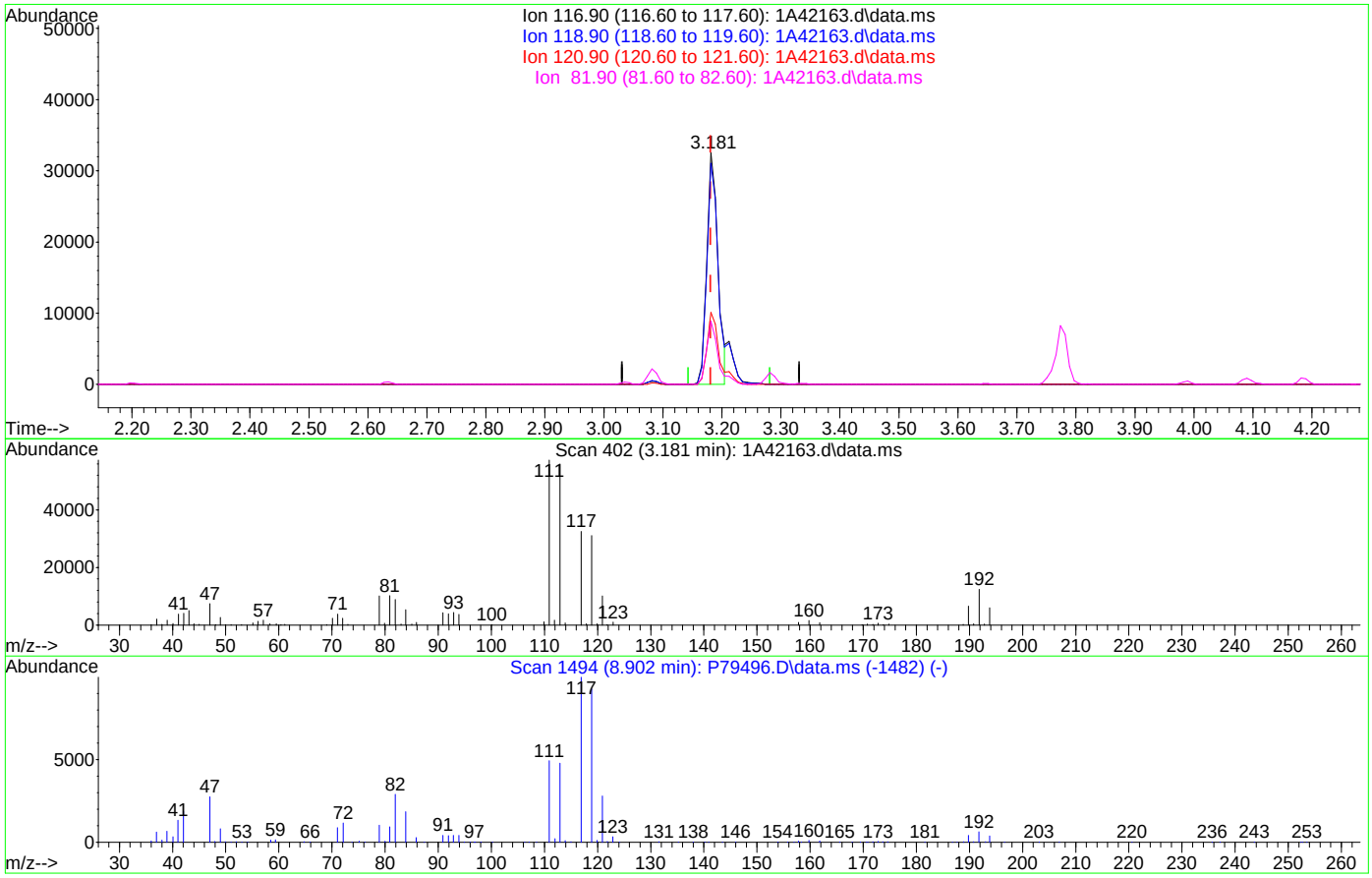
response 48188

Ion	Exp%	Act%
116.90	100	100
118.90	95.70	95.50
120.90	30.30	31.07
81.90	26.50	27.26

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42163.d
Acq On : 14 Dec 2022 3:17 pm
Operator : joannel
Sample : FC1102-12MS 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



TIC: 1A42163.d\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 20.59ug/L m

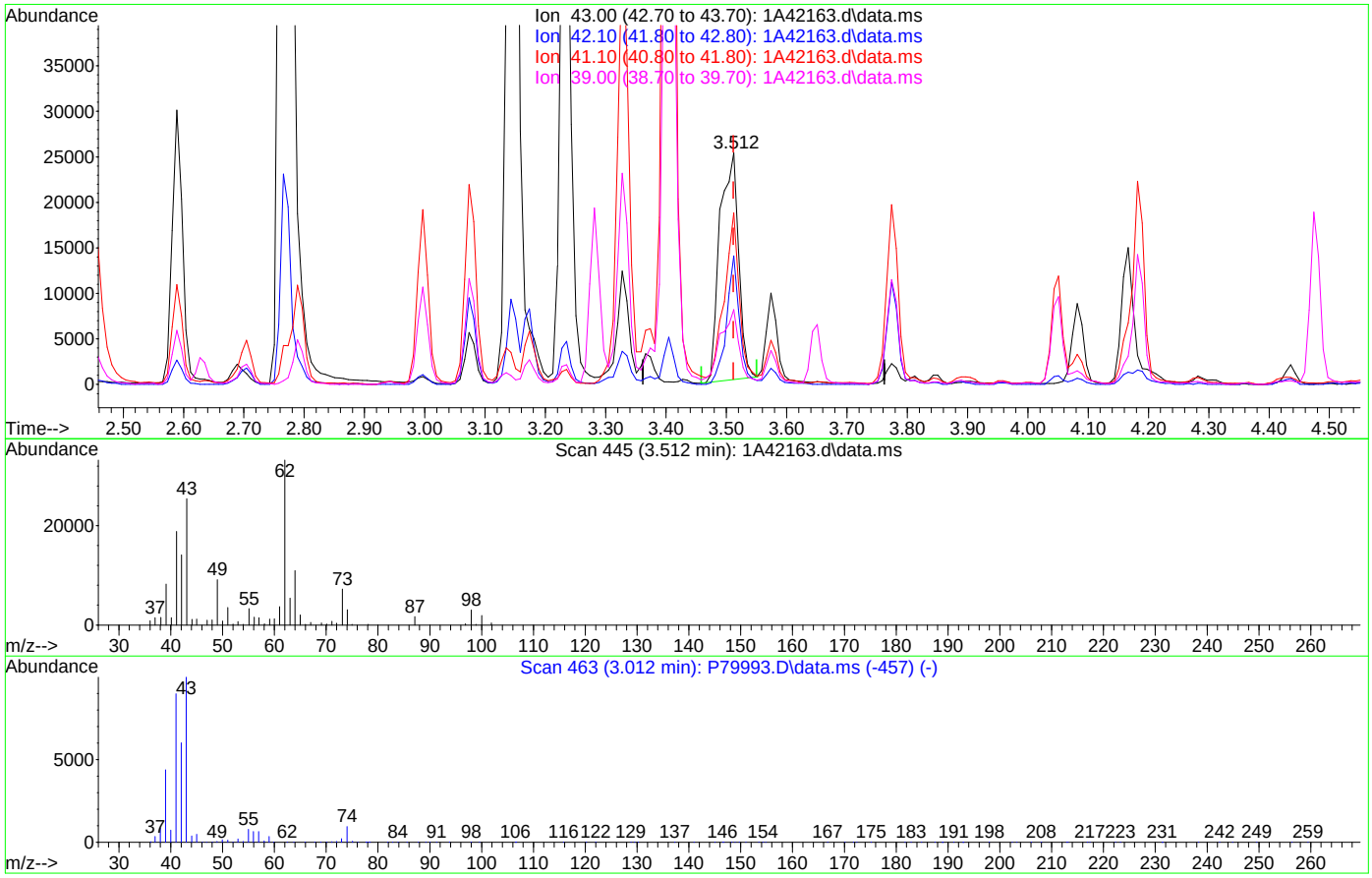
response 42711

Ion	Exp%	Act%
116.90	100	100
118.90	95.70	95.50
120.90	30.30	31.07
81.90	26.50	27.26

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42163.d
Acq On : 14 Dec 2022 3:17 pm
Operator : joannel
Sample : FC1102-12MS 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



TIC: 1A42163.d\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 722.73ug/L

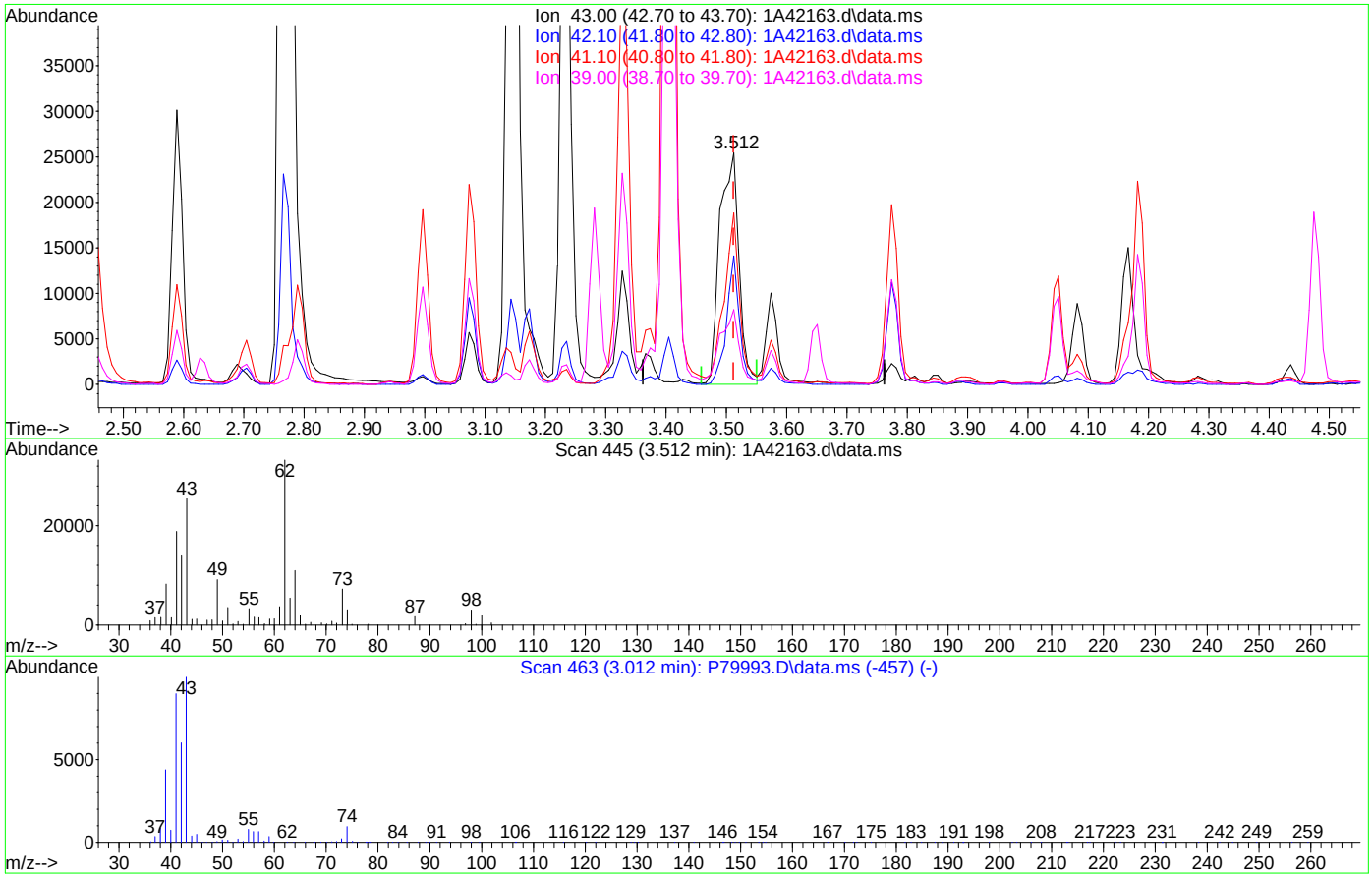
response 53491

Ion	Exp%	Act%
43.00	100	100
42.10	57.20	55.73
41.10	71.70	70.79
39.00	29.20	30.70

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42163.d
Acq On : 14 Dec 2022 3:17 pm
Operator : joannel
Sample : FC1102-12MS 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



TIC: 1A42163.d\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 756.25ug/L m

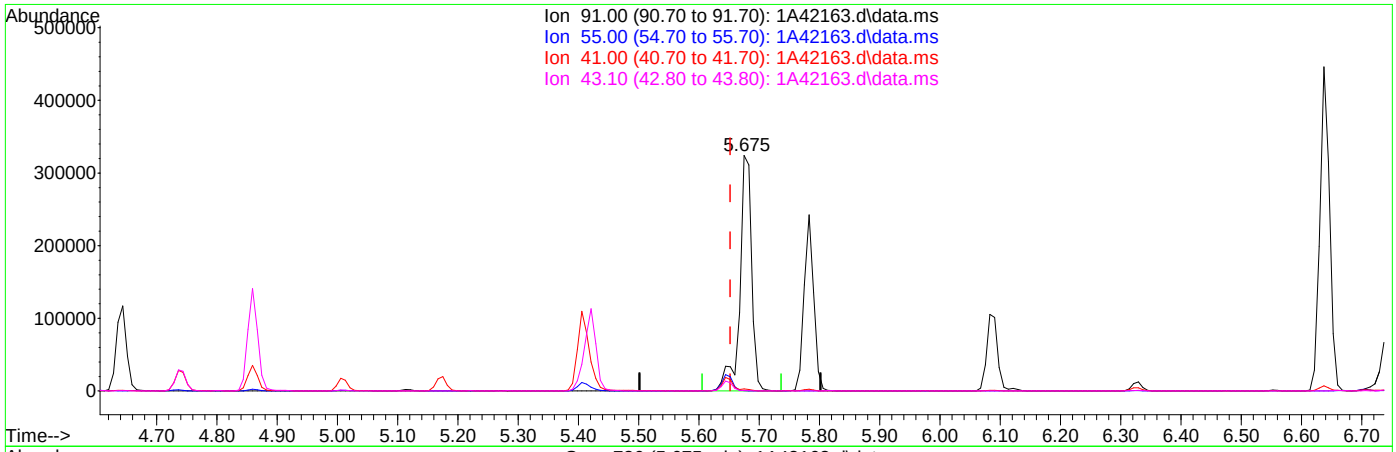
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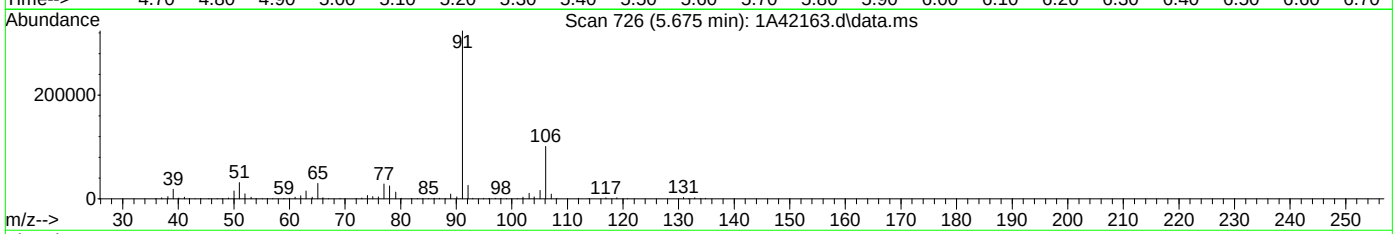
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	55.45
41.10	71.70	74.00
39.00	29.20	32.34

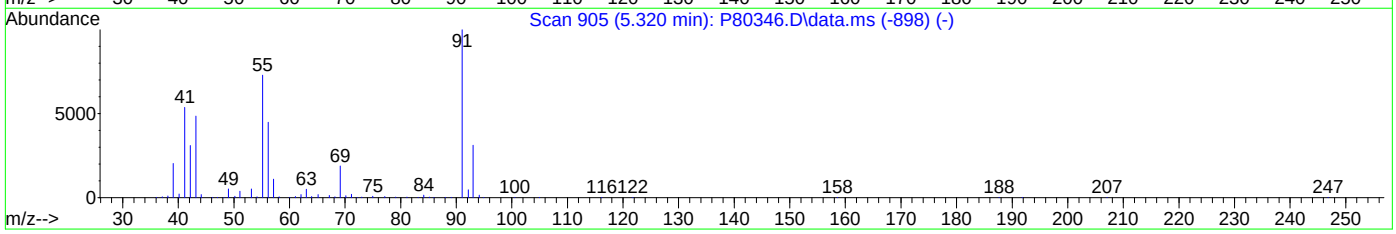
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42163.d
Acq On : 14 Dec 2022 3:17 pm
Operator : joannel
Sample : FC1102-12MS 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42163.d\data.ms

(76) 1-Chlorohexane

5.675min (+0.023) 228.71ug/L

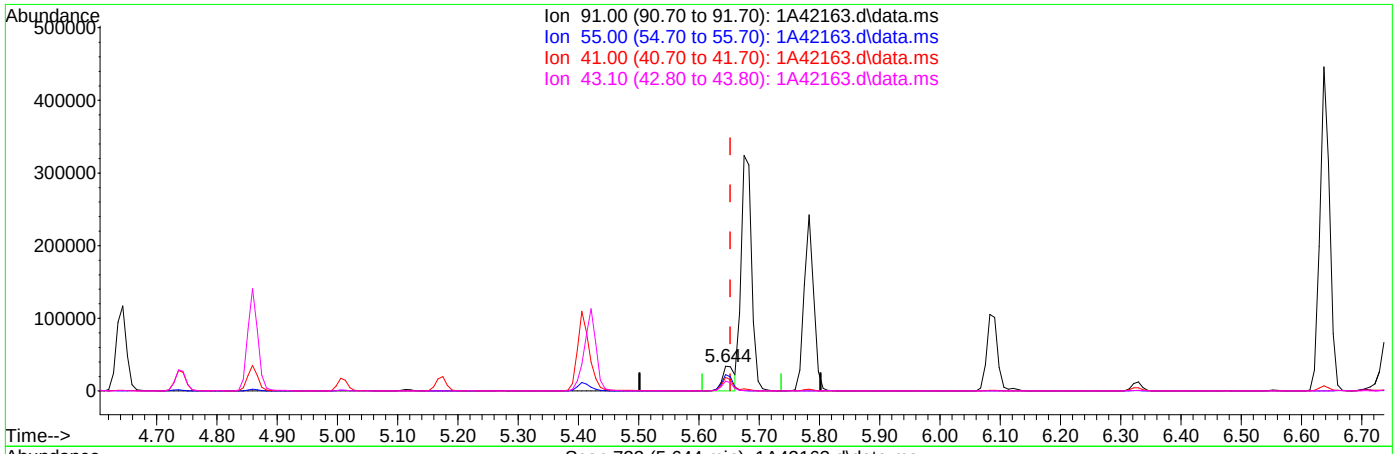
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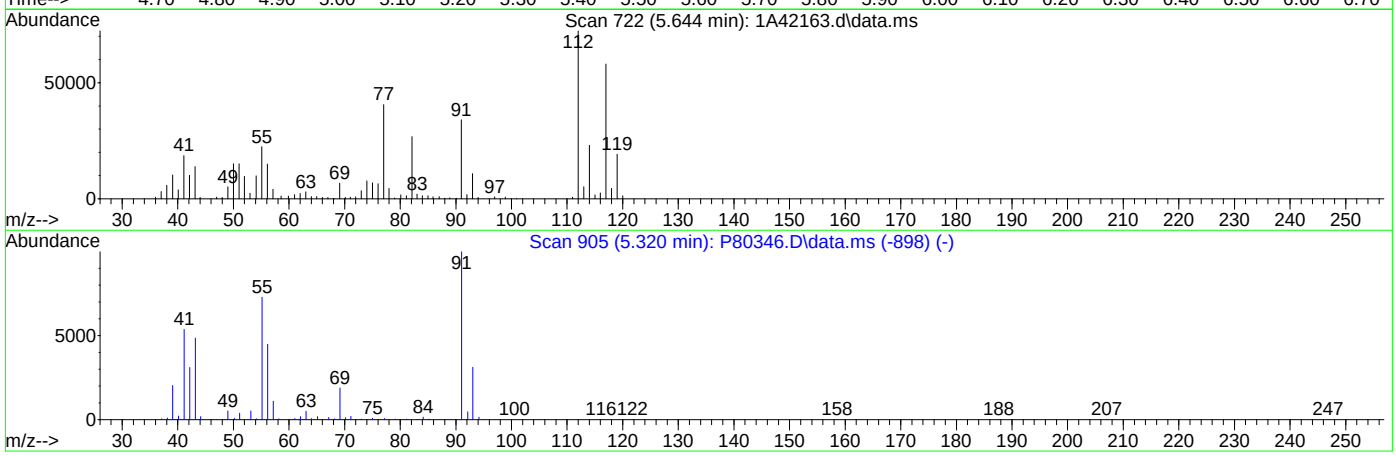
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	0.11#
41.00	48.10	0.81#
43.10	37.30	0.11#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42163.d
Acq On : 14 Dec 2022 3:17 pm
Operator : joannel
Sample : FC1102-12MS 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42163.d\data.ms

(76) 1-Chlorohexane

5.644min (-0.008) 24.59ug/L m

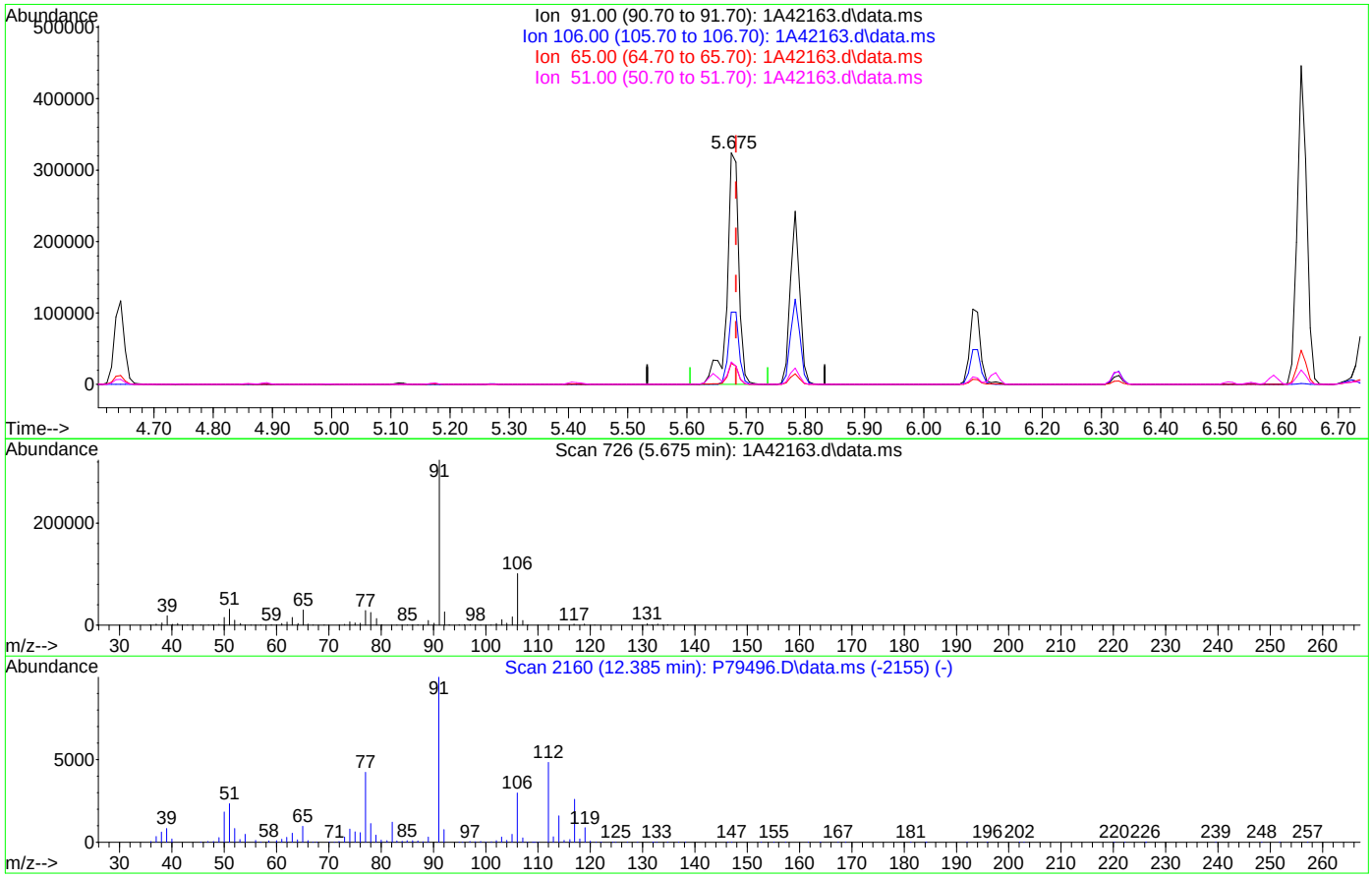
response 47738

Ion	Exp%	Act%
91.00	100	100
55.00	61.70	66.00
41.00	48.10	54.42
43.10	37.30	40.56

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42163.d
Acq On : 14 Dec 2022 3:17 pm
Operator : joannel
Sample : FC1102-12MS 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



TIC: 1A42163.d\data.ms

(77) Ethylbenzene (C)

5.675min (-0.008) 69.92ug/L

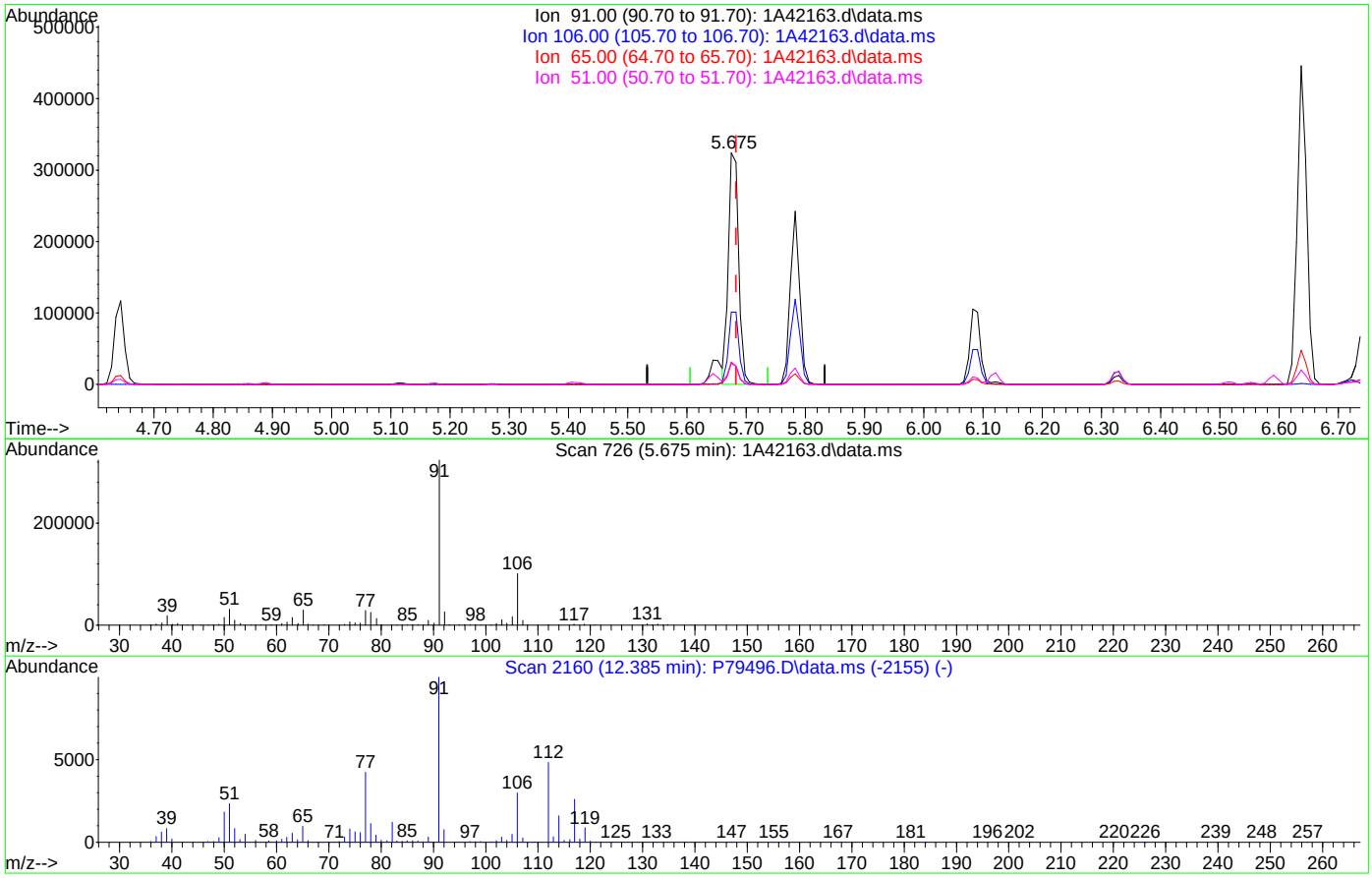
response 443982

Ion	Exp%	Act%
91.00	100	100
106.00	32.70	31.18
65.00	8.50	9.10
51.00	9.00	9.66

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42163.d
Acq On : 14 Dec 2022 3:17 pm
Operator : joannel
Sample : FC1102-12MS 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



TIC: 1A42163.d\data.ms

(77) Ethylbenzene (C)

5.675min (-0.008) 62.38ug/L m

response 396136

Ion	Exp%	Act%
91.00	100	100
106.00	32.70	31.18
65.00	8.50	9.10
51.00	9.00	9.66

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira
12/16/22 02:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42164.d
Acq On : 14 Dec 2022 3:41 pm
Operator : joannel
Sample : FC1102-12MSD 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:53:38 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	237090	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	177521	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	91545	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	66422	43.66	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 87.32%			
49) 1,2-Dichloroethane-d4	3.474	65	75581	48.47	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.94%			
63) Toluene-d8	4.605	98	227991	51.06	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.12%			
86) 4-Bromofluorobenzene	6.521	174	79292	50.83	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.66%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.034	85	34195	20.55	ug/L	98
3) Chloromethane	1.157	50	26185	17.05	ug/L	98
4) 1,3-butadiene	1.219	39	29624	26.26	ug/L	98
5) Vinyl Chloride	1.211	62	31599	20.42	ug/L	100
6) Bromomethane	1.411	94	14892	14.21	ug/L	96
7) Chloroethane	1.480	64	13274	21.67	ug/L	96
8) Trichlorofluoromethane	1.580	101	52638	22.59	ug/L	100
9) Ethyl Ether	1.773	59	20099	18.18	ug/L	98
10) Ethanol	1.842	45	7823	351.46	ug/L	97
11) 1,2-Dichlorotrifluoroe...	1.873	67	33181	19.27	ug/L	98
12) 1,1-Dichloroethene	1.881	61	42668	20.93	ug/L	92
13) Freon 113	1.911	101	31108	21.69	ug/L	98
14) Carbon Disulfide	1.896	76	78920	19.47	ug/L	99
15) Iodomethane	1.958	142	27331	18.57	ug/L	99
16) Acrolein	2.050	56	27393	84.80	ug/L	97
17) Allyl chloride	2.142	41	33051	18.01	ug/L	98
18) Methylene Chloride	2.204	49	31364	17.00	ug/L	90
19) Acetone	2.212	43	47116	95.67	ug/L	99
20) Methyl acetate	2.296	43	110167	96.31	ug/L	98
21) trans-1,2-Dichloroethene	2.304	61	39791	19.68	ug/L	88
22) Hexane	2.373	56	24326m	21.00	ug/L	
23) Methyl Tert Butyl Ether	2.365	73	83101	19.76	ug/L	97
24) Acetonitrile	2.365	41	47241m	210.21	ug/L	
25) Tert Butyl Alcohol	2.396	59	51439	202.62	ug/L	98
26) Di-isopropyl ether	2.589	45	74606	19.17	ug/L	98
27) Chloroprene	2.627	53	95736	19.99	ug/L	99
28) 1,1-Dichloroethane	2.635	63	51779	20.24	ug/L	98
29) Acrylonitrile	2.627	52	57610	99.26	ug/L	99
30) ETBE	2.789	59	79946	19.08	ug/L	99
31) Vinyl acetate	2.766	43	293835	106.22	ug/L	99
32) cis-1,2-Dichloroethene	2.935	96	32498	20.15	ug/L	92
33) 2,2-Dichloropropane	2.997	77	44064	18.95	ug/L	99
34) Bromochloromethane	3.035	128	16202	21.32	ug/L	95
35) Cyclohexane	3.074	56	50475	22.27	ug/L	98
36) Chloroform	3.081	83	56015	20.04	ug/L	97
37) Ethyl acetate	3.143	43	157189	102.12	ug/L	99
38) Tetrahydrofuran	3.174	42	10492	19.66	ug/L	93
40) Carbon Tetrachloride	3.181	117	43438m	20.92	ug/L	
41) 1,1,1-Trichloroethane	3.212	97	49173	21.02	ug/L	99
42) 2-Butanone	3.235	43	76311	87.40	ug/L	96
43) 1,1-Dichloropropene	3.281	75	42184	20.90	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42164.d
Acq On : 14 Dec 2022 3:41 pm
Operator : joannel
Sample : FC1102-12MSD 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:53:38 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	tert-Butyl formate	3.327	59	75248	60.44	ug/L		96
45)	Propionitrile	3.381	54	46639	184.20	ug/L		96
46)	Methacrylonitrile	3.404	41	177691	191.65	ug/L		99
47)	Benzene	3.420	78	121165	20.70	ug/L		97
48)	TAME	3.497	73	84751	21.00	ug/L		99
50)	1,2-Dichloroethane	3.512	62	40568	19.87	ug/L		99
51)	Isobutyl Alcohol	3.512	43	59481m	798.52	ug/L		
52)	Tert Amyl Alcohol	3.574	59	40767	196.72	ug/L		98
53)	Trichloroethene	3.758	95	34032	20.61	ug/L		98
54)	Methylcyclohexane	3.774	83	63293	25.92	ug/L		99
55)	Dibromomethane	3.989	93	19869	19.67	ug/L		97
56)	1,2-Dichloropropane	4.051	63	27725	18.75	ug/L		98
57)	Bromodichloromethane	4.089	83	39633	20.22	ug/L		99
58)	Methyl methacrylate	4.182	41	32855	24.29	ug/L		97
59)	1,4-Dioxane	4.205	88	8413	406.93	ug/L		98
60)	2-Chloroethyl vinyl ether	4.436	63	1047	1.04	ug/L		94
61)	cis-1,3-Dichloropropene	4.474	75	45627	19.29	ug/L		99
64)	Toluene	4.644	91	135972	22.80	ug/L		98
65)	2-Nitropropane	4.736	41	38561	97.37	ug/L		94
66)	4-Methyl-2-pentanone	4.859	43	158997	96.09	ug/L		99
67)	trans-1,3-Dichloropropene	4.890	75	43181	22.53	ug/L		98
68)	Tetrachloroethene	4.905	166	38310	23.37	ug/L		98
69)	Ethyl methacrylate	5.005	69	34666	19.39	ug/L		98
70)	1,1,2-Trichloroethane	4.990	83	23214	21.80	ug/L		98
71)	Dibromochloromethane	5.121	129	29616	20.88	ug/L		100
72)	1,3-Dichloropropane	5.175	76	44094	20.76	ug/L		99
73)	1,2-Dibromoethane	5.275	107	31277	22.54	ug/L		97
74)	3,3-Dimethyl-1-Butanol	5.406	57	217107	1021.60	ug/L		99
75)	2-hexanone	5.421	43	149318	96.11	ug/L		94
76)	1-Chlorohexane	5.644	91	48576m	25.00	ug/L		
77)	Ethylbenzene	5.675	91	384409m	60.49	ug/L		
78)	Chlorobenzene	5.644	112	84749	22.57	ug/L		98
79)	1,1,1,2-Tetrachloroethane	5.690	131	30240	22.59	ug/L		98
80)	m,p-Xylene	5.783	91	269594	53.89	ug/L		99
81)	o-Xylene	6.083	91	135597	26.23	ug/L		100
82)	Styrene	6.121	104	88569	22.22	ug/L		99
83)	Bromoform	6.121	173	20132	21.10	ug/L		97
84)	Isopropylbenzene	6.329	105	243923	40.04	ug/L		99
87)	cis-1,4-Dichloro-2-butene	6.552	53	8930	15.80	ug/L	#	89
88)	n-Propylbenzene	6.637	91	484995	68.04	ug/L		100
89)	Bromobenzene	6.591	156	35631	22.33	ug/L		98
90)	1,1,2,2-Tetrachloroethane	6.660	83	39609	22.44	ug/L		99
91)	1,3,5-Trimethylbenzene	6.791	105	177069	34.12	ug/L		99
92)	2-Chlorotoluene	6.745	91	104211	25.15	ug/L		99
93)	trans-1,4-Dichloro-2-B...	6.791	53	12830	20.72	ug/L		89
94)	1,2,3-Trichloropropane	6.760	110	11290	21.18	ug/L		98
95)	Cyclohexanone	6.768	55	8173	119.06	ug/L		98
96)	4-Chlorotoluene	6.868	91	97677	22.56	ug/L		98
97)	tert-Butylbenzene	7.037	91	67287	22.92	ug/L		97
98)	1,2,4-Trimethylbenzene	7.091	105	390744	78.75	ug/L		100
99)	Pentachloroethane	7.037	167	19044	23.10	ug/L	#	90
100)	sec-Butylbenzene	7.183	105	180231	29.56	ug/L		95
101)	4-Isopropyltoluene	7.299	119	156606	29.12	ug/L		99
102)	1,3-Dichlorobenzene	7.322	146	67488	23.49	ug/L		97
103)	1,2,3-Trimethylbenzene	7.430	105	142722	29.87	ug/L		99
104)	1,4-Dichlorobenzene	7.399	146	67808	23.00	ug/L		98
105)	n-Butylbenzene	7.630	92	76911	28.41	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42164.d
Acq On : 14 Dec 2022 3:41 pm
Operator : joannel
Sample : FC1102-12MSD 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:53:38 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

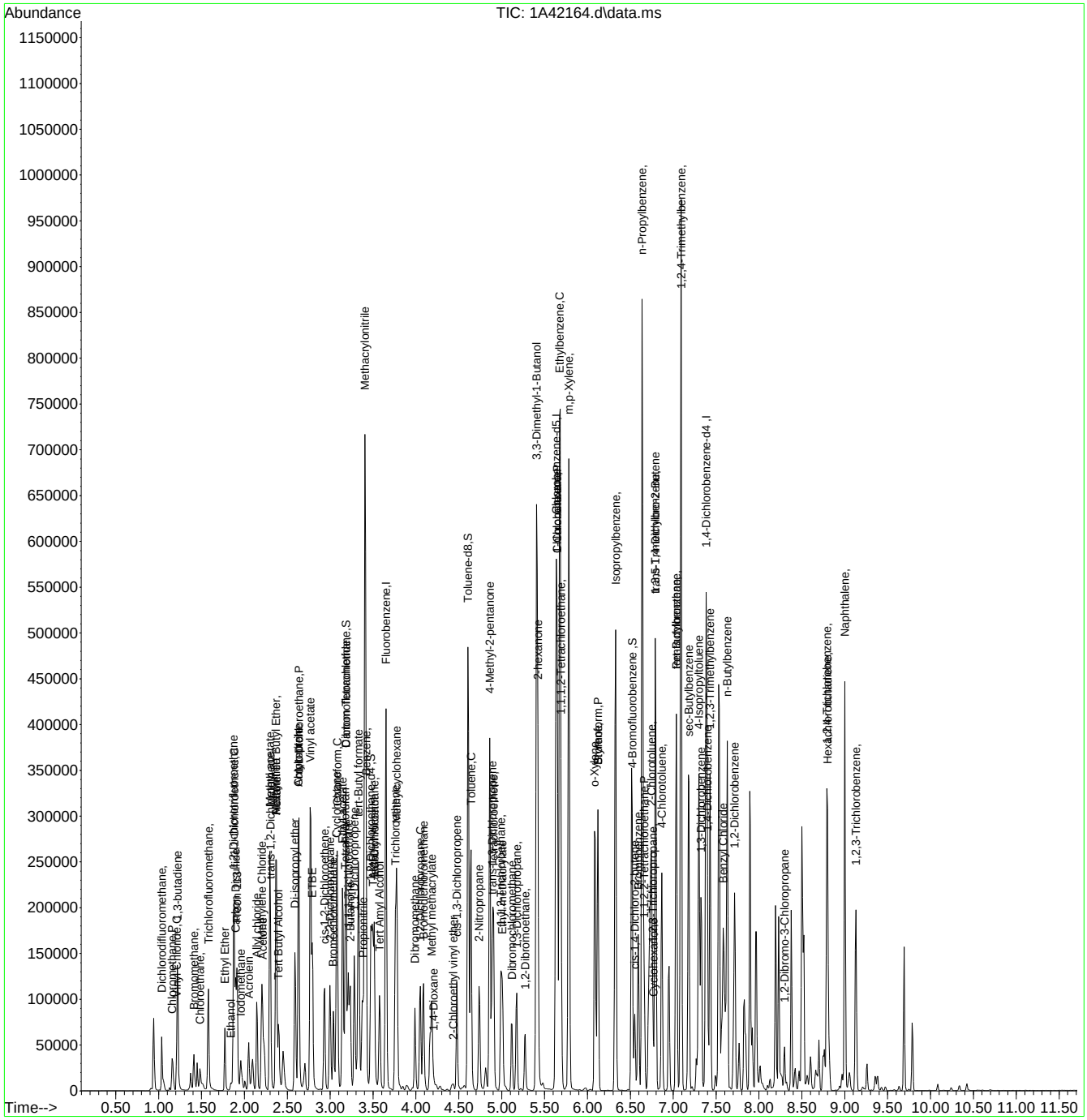
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) Benzyl Chloride	7.584	126	13009	18.90	ug/L #	90
107) 1,2-Dichlorobenzene	7.714	146	62307	23.30	ug/L	98
108) 1,2-Dibromo-3-Chloropr...	8.299	75	7010	20.40	ug/L	98
109) Hexachlorobutadiene	8.800	225	24423	24.61	ug/L	99
110) 1,2,4-Trichlorobenzene	8.792	180	43504	23.46	ug/L	98
111) Naphthalene	9.000	128	207572	40.77	ug/L	100
112) 1,2,3-Trichlorobenzene	9.131	180	40687	23.22	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42164.d
Acq On : 14 Dec 2022 3:41 pm
Operator : joannel
Sample : FC1102-12MSD 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:53:38 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



Manual Integration Approval Summary

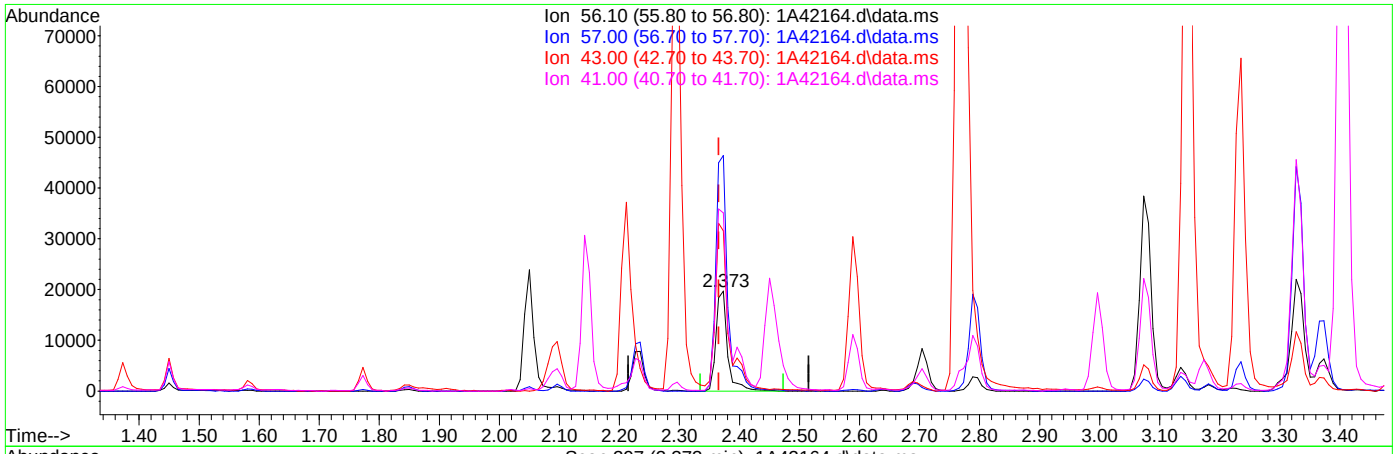
Sample Number: FC1102-12MSD
Lab FileID: 1A42164.D
Injection Time: 12/14/22 15:41
Method: SW846 8260D
Analyst approved: 12/15/22 13:04 Jo-Ann Lugo De Jesus
Supervisor approved: 12/16/22 02:57 Jennifer Fereira

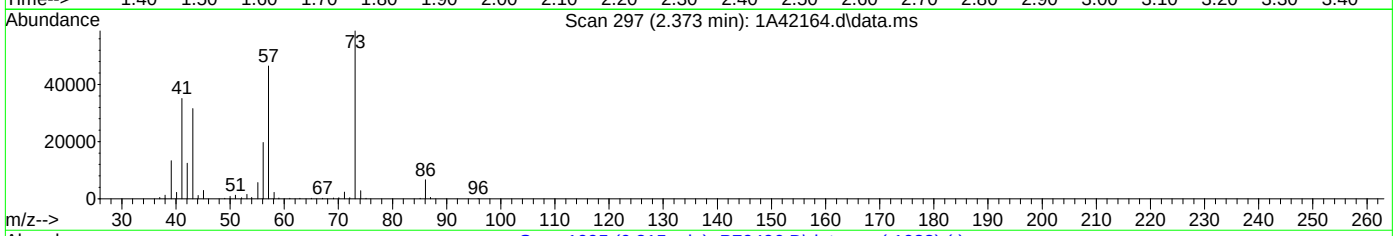
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		2.37	Overlapping peak
Acetonitrile	75-05-8		2.37	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.18	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration
Ethylbenzene	100-41-4		5.67	Poor instrument integration

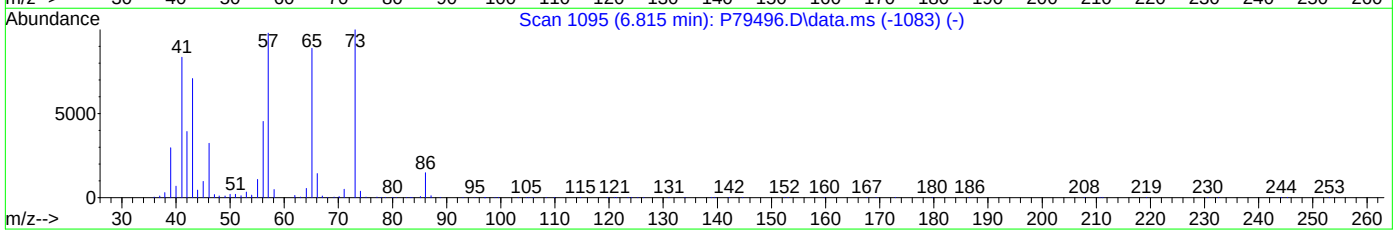
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42164.d
Acq On : 14 Dec 2022 3:41 pm
Operator : joannel
Sample : FC1102-12MSD 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:56 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42164.d\data.ms

(22) Hexane

2.373min (+0.008) 22.84ug/L

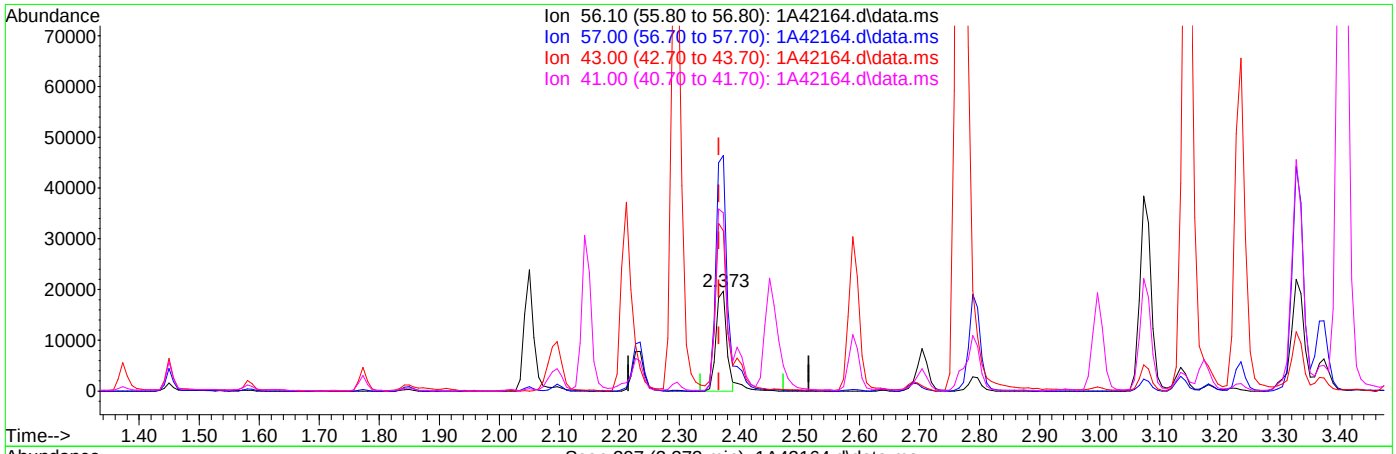
response 26466

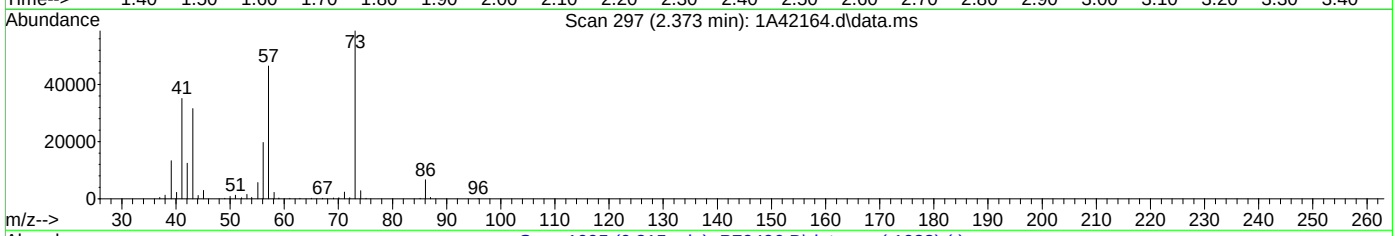
Ion	Exp%	Act%
56.10	100	100
57.00	243.90	235.55
43.00	181.70	158.72#
41.00	193.40	177.51

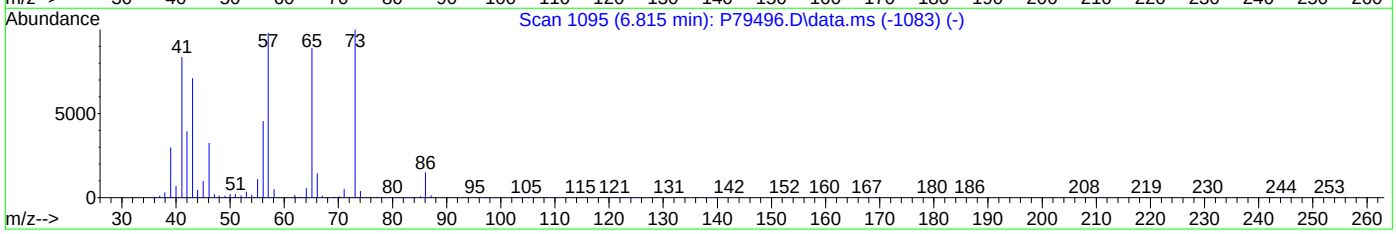
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42164.d
Acq On : 14 Dec 2022 3:41 pm
Operator : joannel
Sample : FC1102-12MSD 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:56 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42164.d\data.ms

(22) Hexane

2.373min (+0.008) 21.00ug/L m

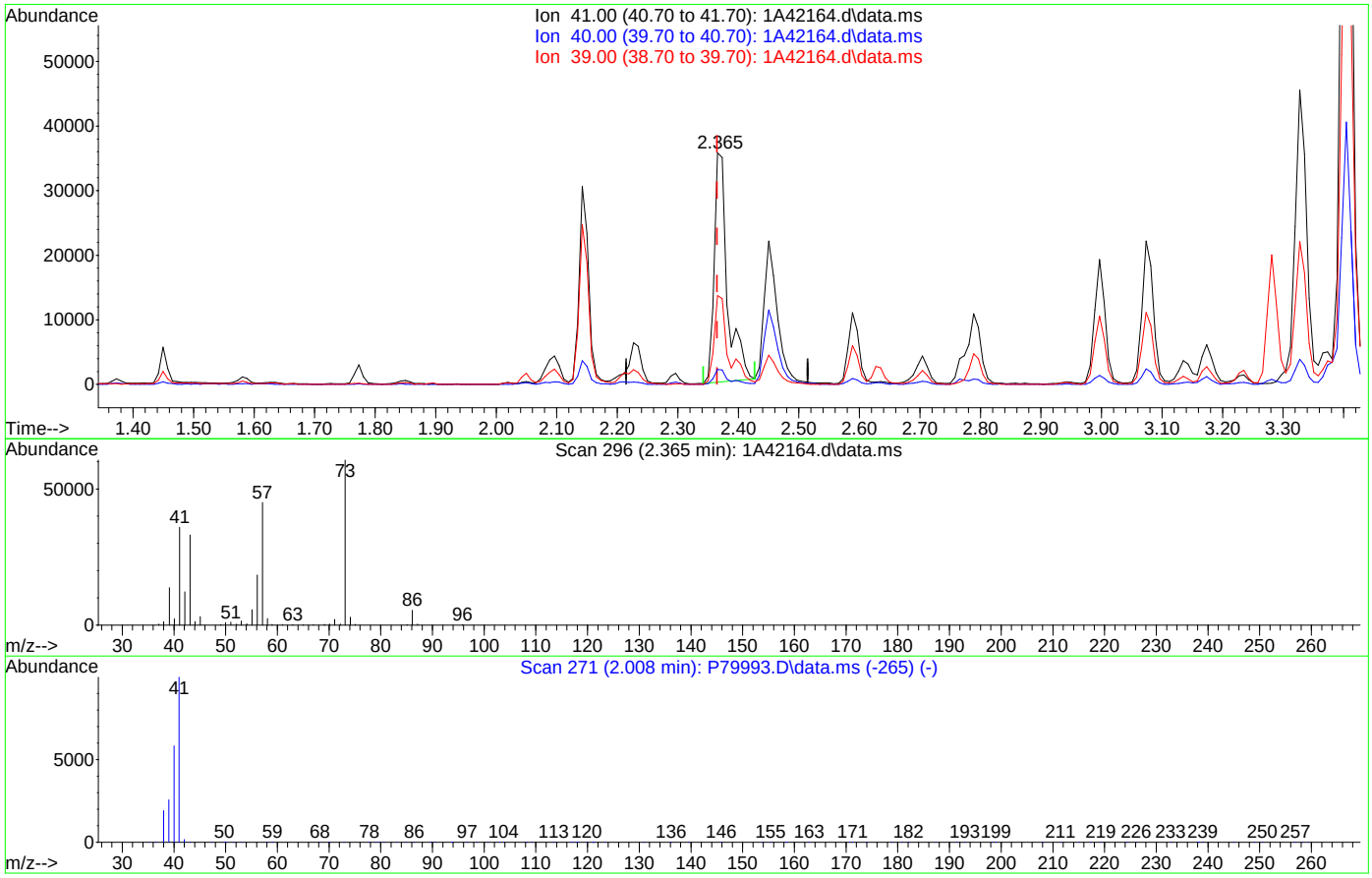
response 24326

Ion	Exp%	Act%
56.10	100	100
57.00	243.90	235.55
43.00	181.70	160.15#
41.00	193.40	178.17

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42164.d
Acq On : 14 Dec 2022 3:41 pm
Operator : joannel
Sample : FC1102-12MSD 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:56 2022
Quant Title : SW-846 Method 5035A/8260B
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Response via : Initial Calibration



TIC: 1A42164.d\data.ms

(24) Acetonitrile

2.365min (+0.000) 240.40ug/L

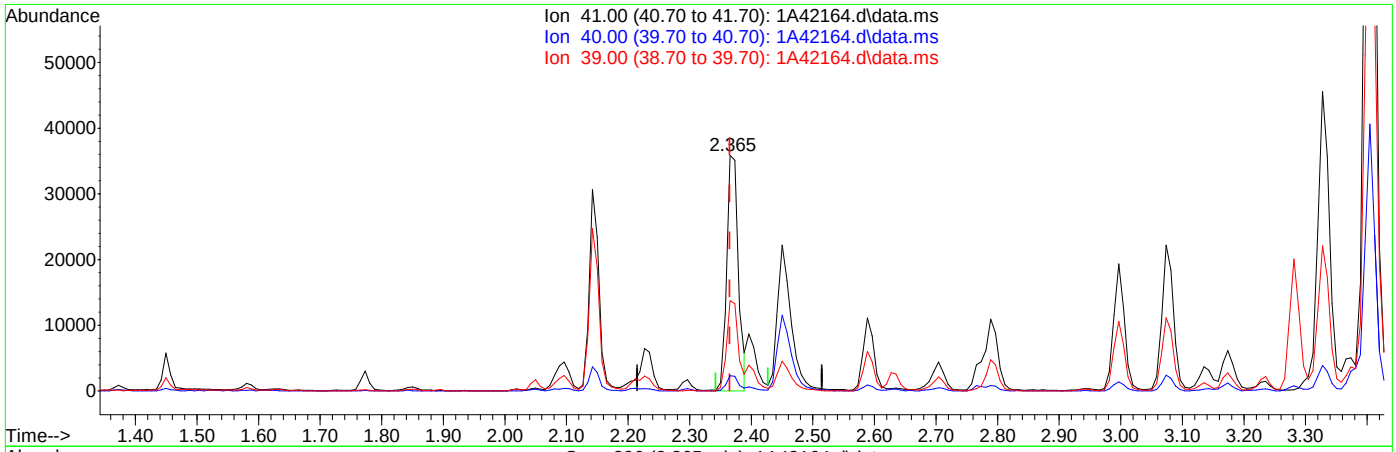
response 54026

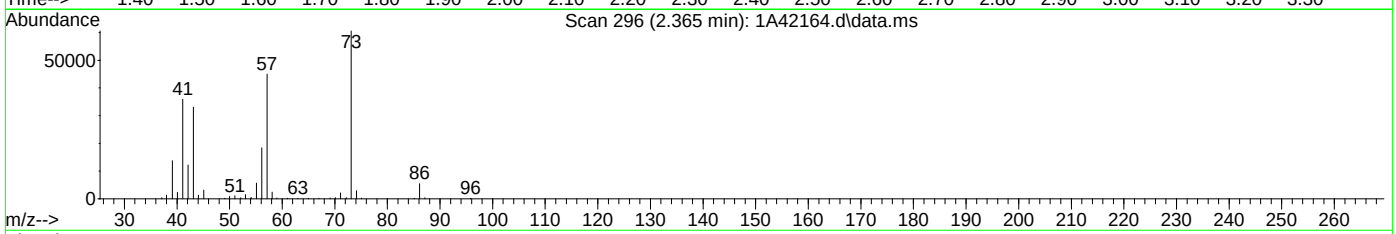
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.48
39.00	37.60	38.48
0.00	0.00	0.00

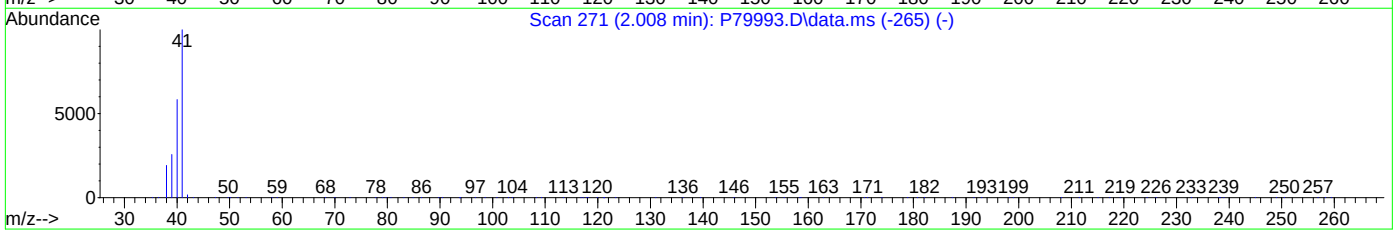
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42164.d
Acq On : 14 Dec 2022 3:41 pm
Operator : joannel
Sample : FC1102-12MSD 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:56 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42164.d\data.ms

(24) Acetonitrile

2.365min (+0.000) 210.21ug/L m

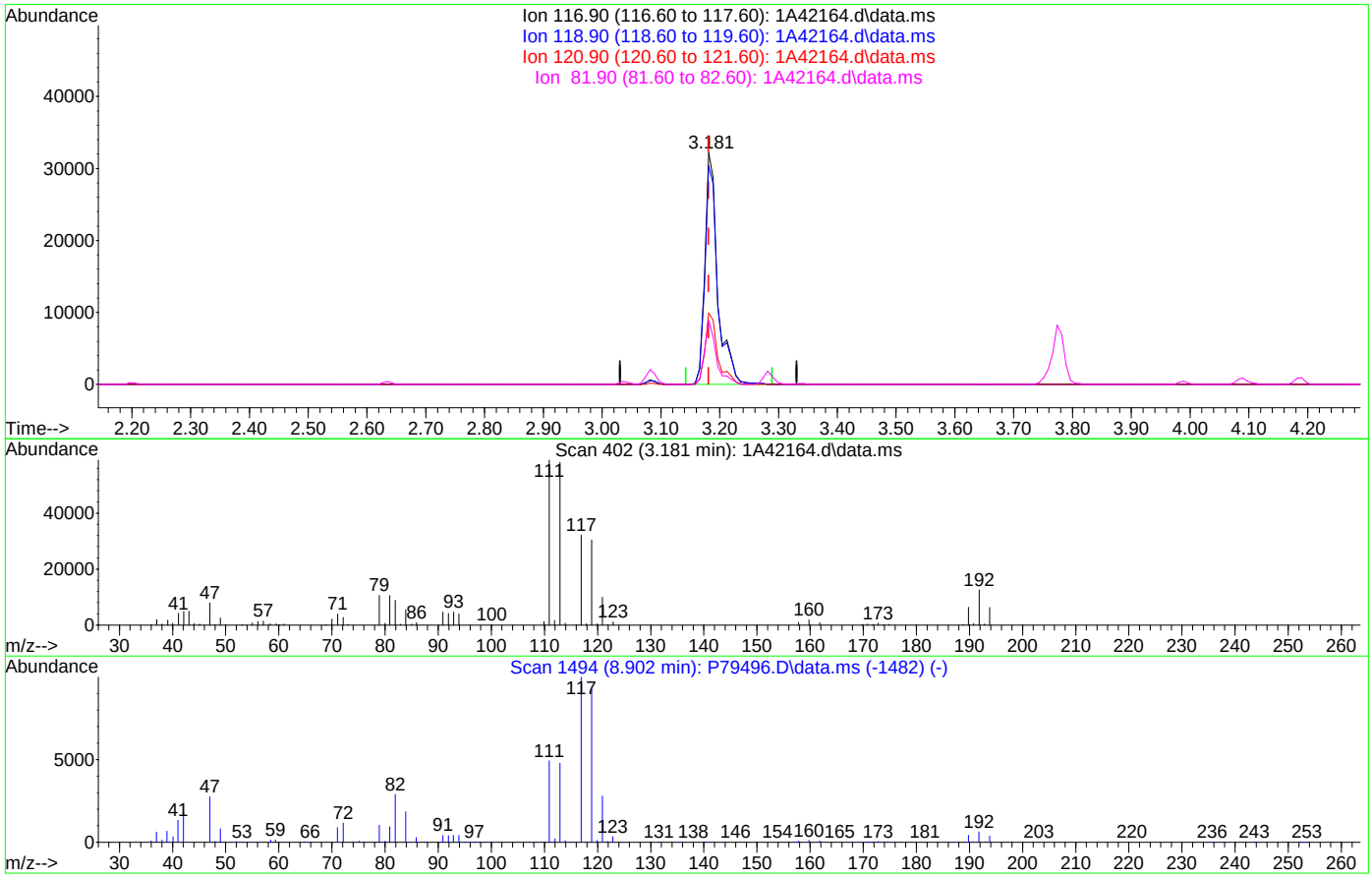
response 47241

Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.45
39.00	37.60	38.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42164.d
Acq On : 14 Dec 2022 3:41 pm
Operator : joannel
Sample : FC1102-12MSD 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:56 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



TIC: 1A42164.d\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 23.72ug/L

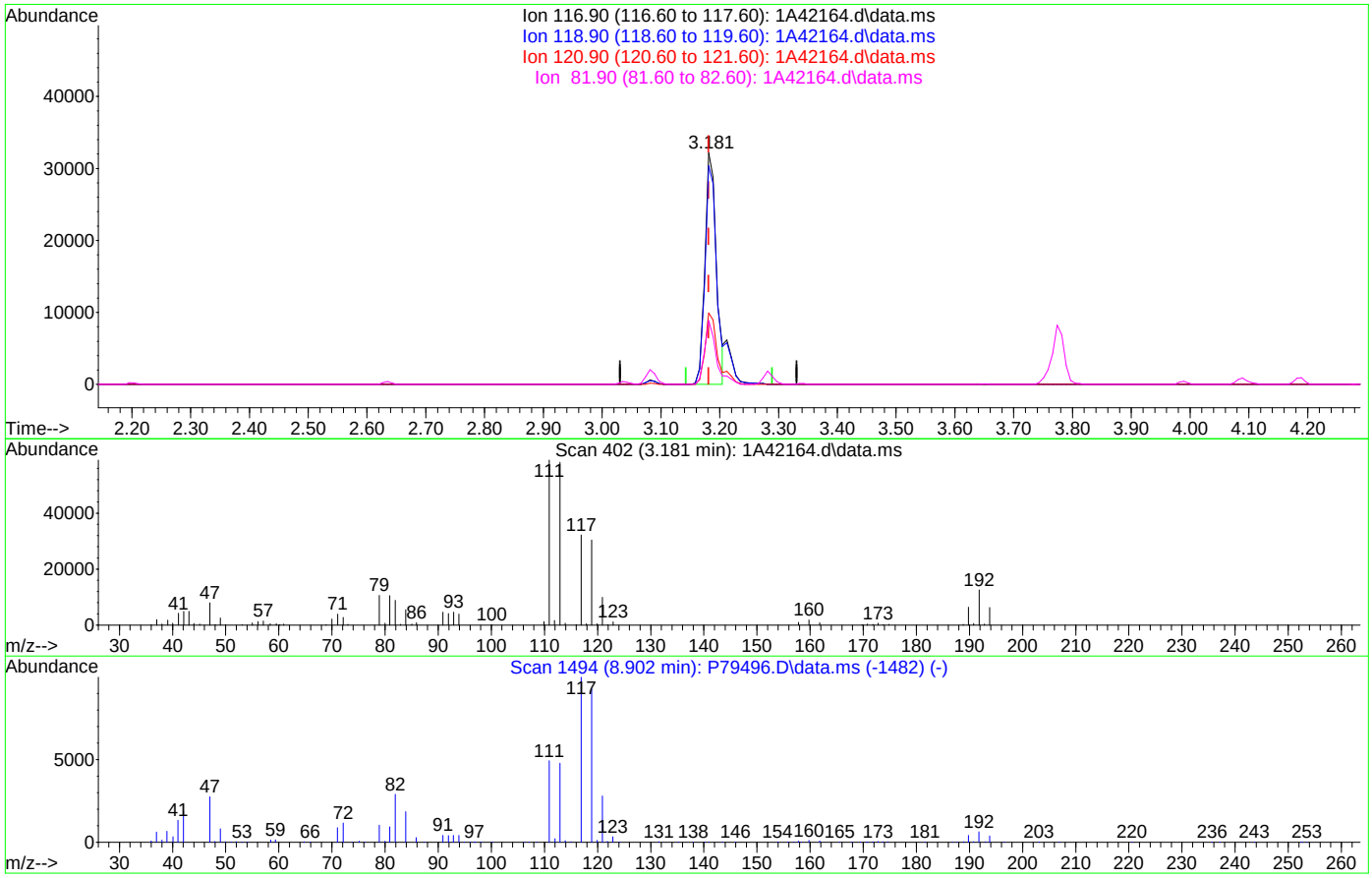
response 49254

Ion	Exp%	Act%
116.90	100	100
118.90	95.70	94.41
120.90	30.30	30.83
81.90	26.50	27.53

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42164.d
Acq On : 14 Dec 2022 3:41 pm
Operator : joannel
Sample : FC1102-12MSD 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:56 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



TIC: 1A42164.d\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 20.92ug/L m

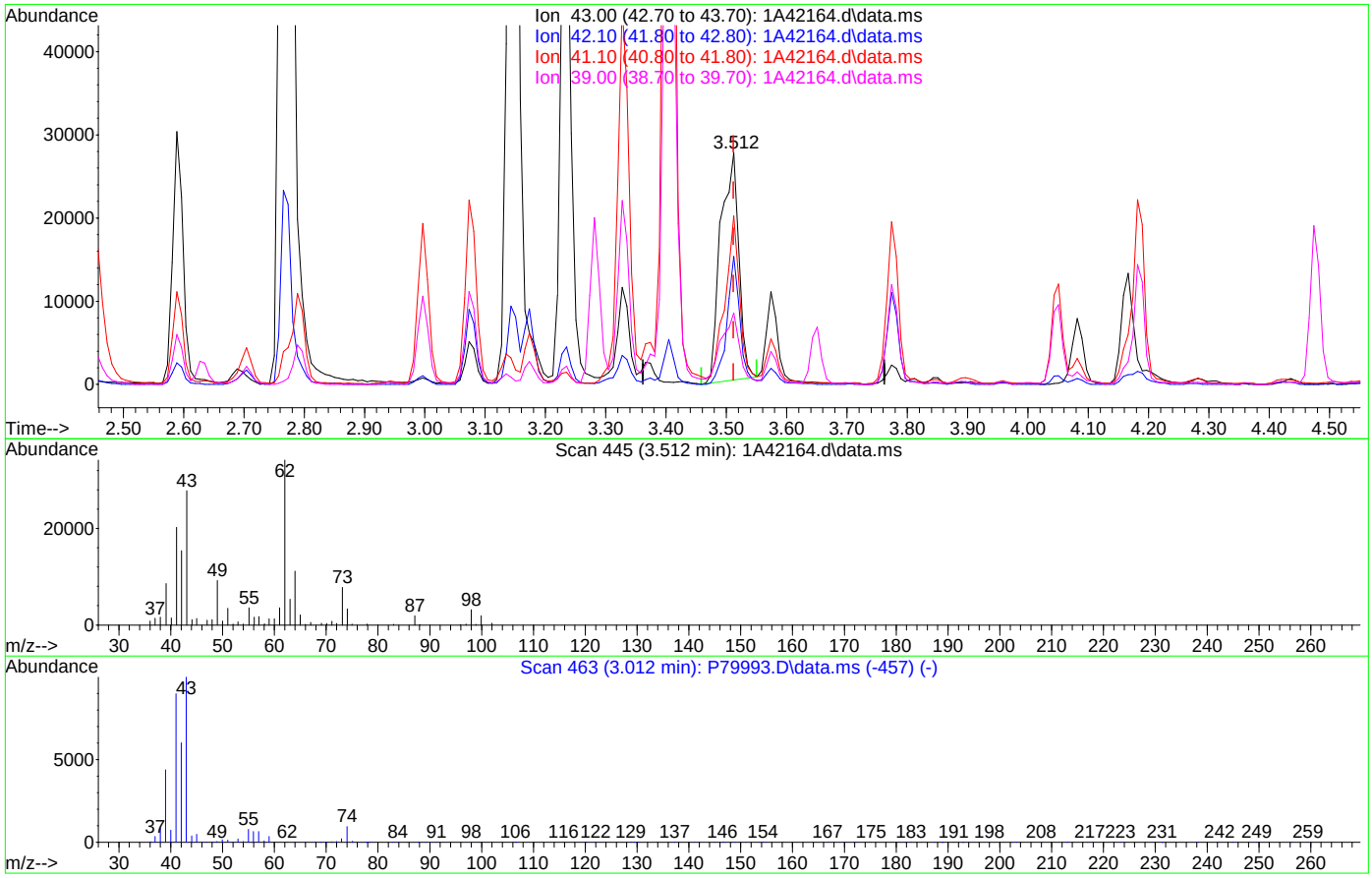
response 43438

Ion	Exp%	Act%
116.90	100	100
118.90	95.70	94.41
120.90	30.30	30.83
81.90	26.50	27.53

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42164.d
Acq On : 14 Dec 2022 3:41 pm
Operator : joannel
Sample : FC1102-12MSD 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:56 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



TIC: 1A42164.d\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 766.43ug/L

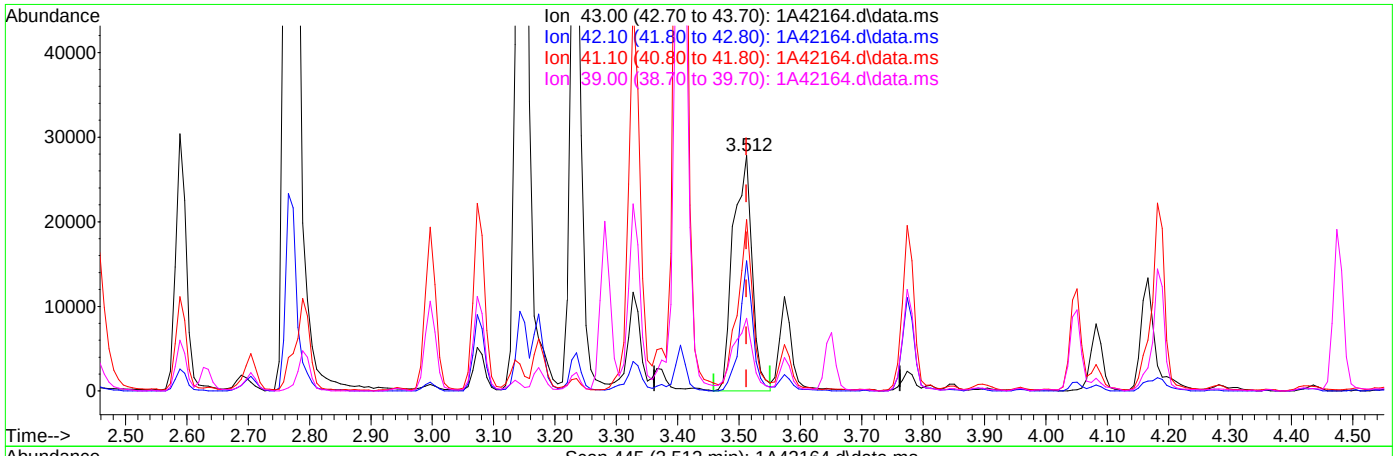
response 56959

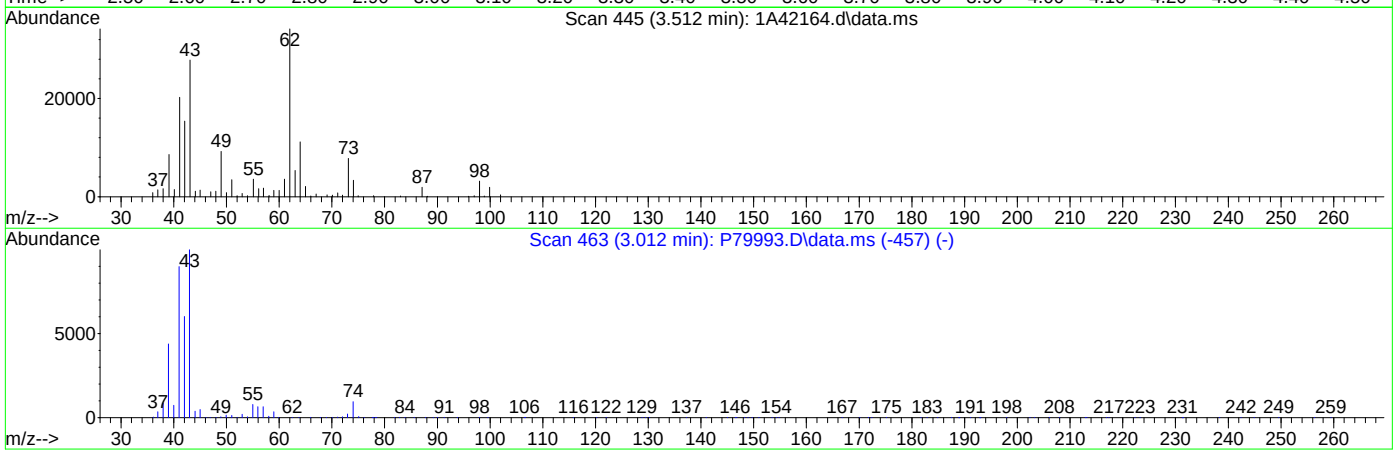
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	55.23
41.10	71.70	69.30
39.00	29.20	29.40

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42164.d
Acq On : 14 Dec 2022 3:41 pm
Operator : joannel
Sample : FC1102-12MSD 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:56 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42164.d\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 798.52ug/L m

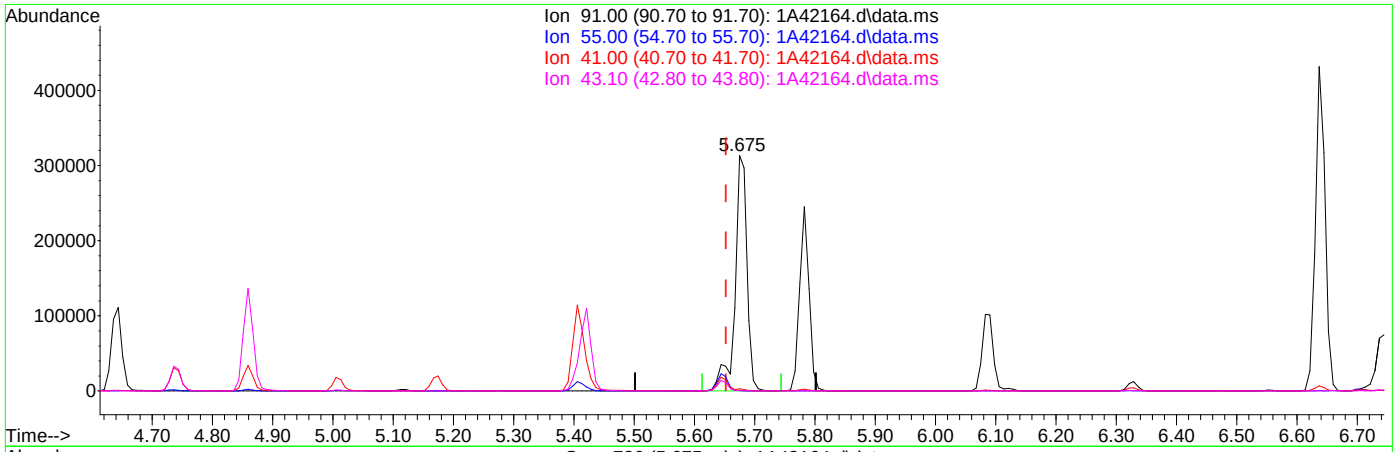
response 59481

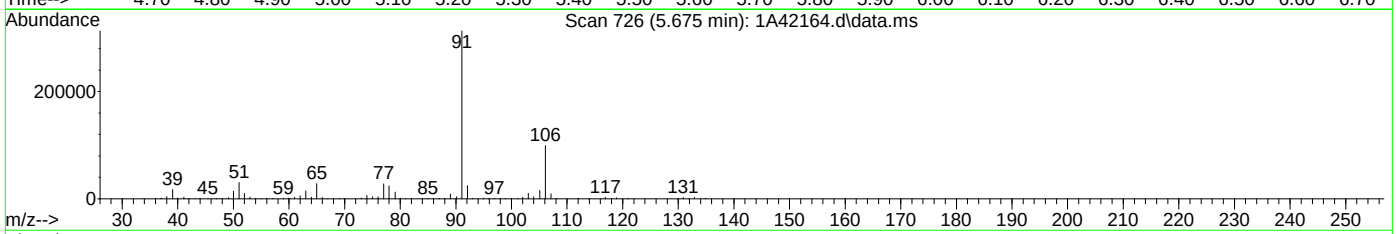
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	55.23
41.10	71.70	72.70
39.00	29.20	30.91

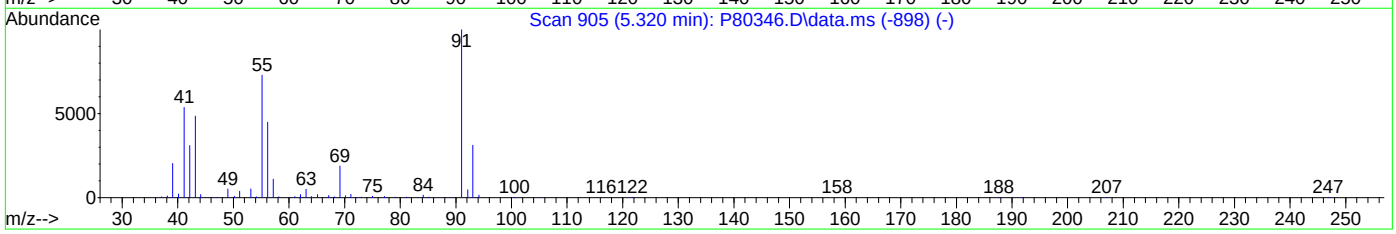
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42164.d
Acq On : 14 Dec 2022 3:41 pm
Operator : joannel
Sample : FC1102-12MSD 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:56 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42164.d\data.ms

(76) 1-Chlorohexane

5.675min (+0.023) 222.88ug/L

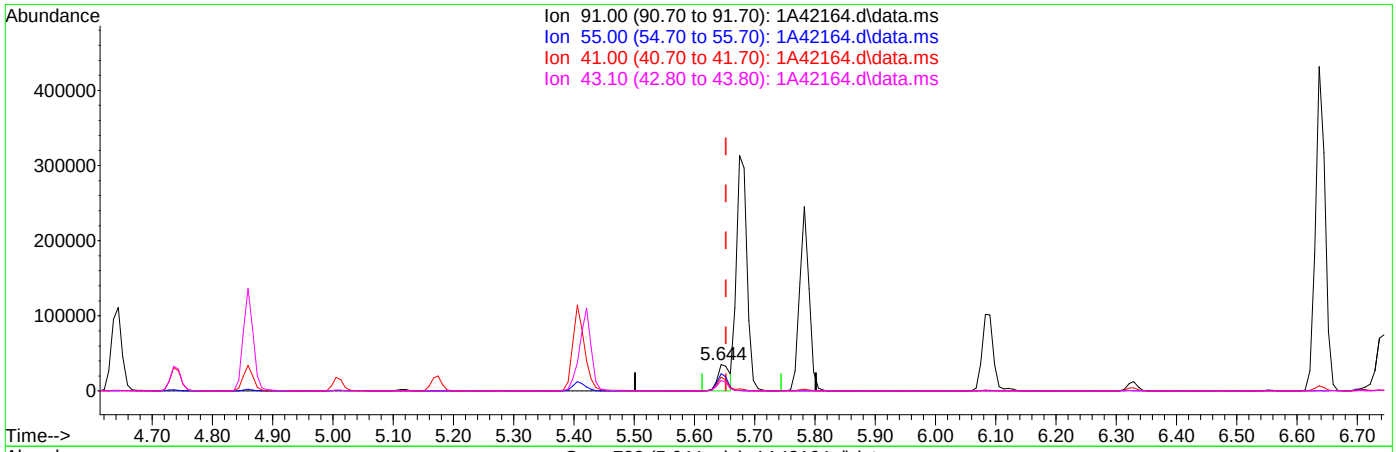
response 432980

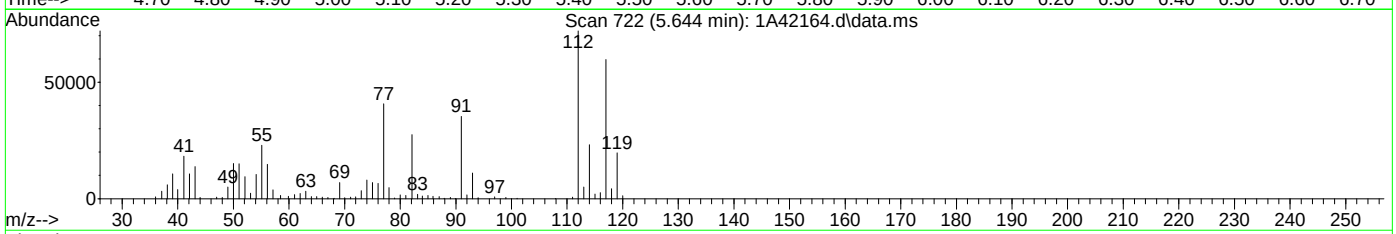
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	0.07#
41.00	48.10	0.82#
43.10	37.30	0.12#

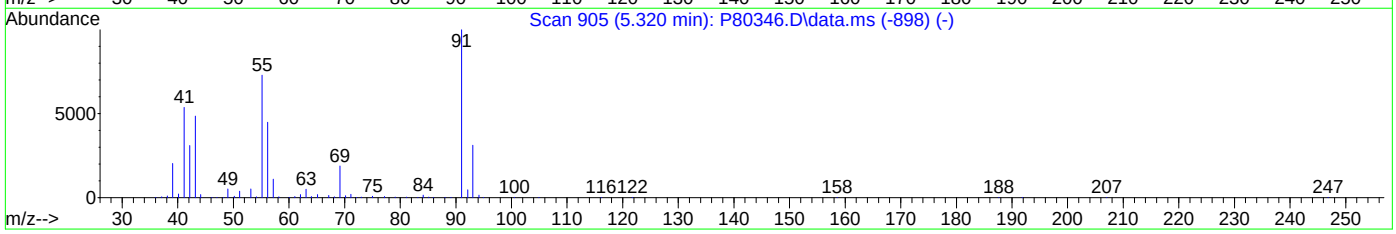
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42164.d
Acq On : 14 Dec 2022 3:41 pm
Operator : joannel
Sample : FC1102-12MSD 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:56 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42164.d\data.ms

(76) 1-Chlorohexane

5.644min (-0.008) 25.00ug/L m

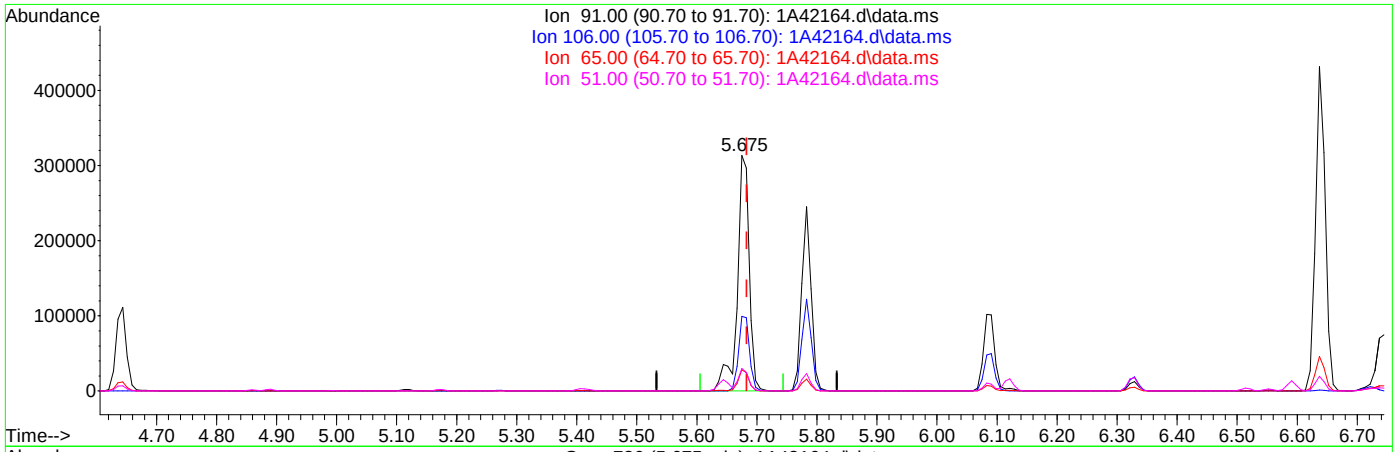
response 48576

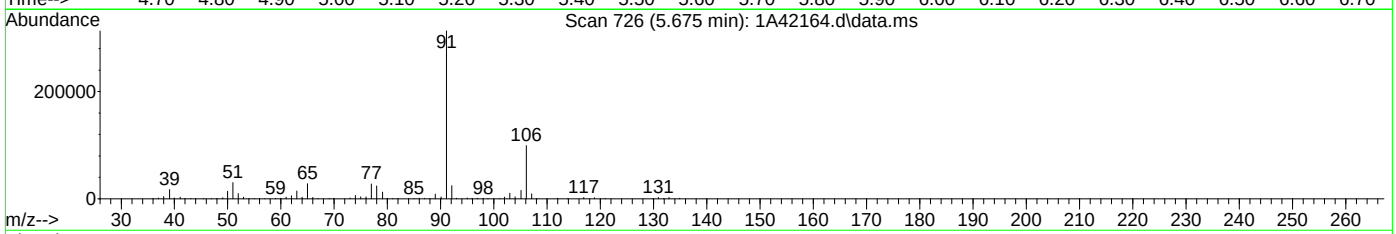
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	64.95
41.00	48.10	51.70
43.10	37.30	39.05

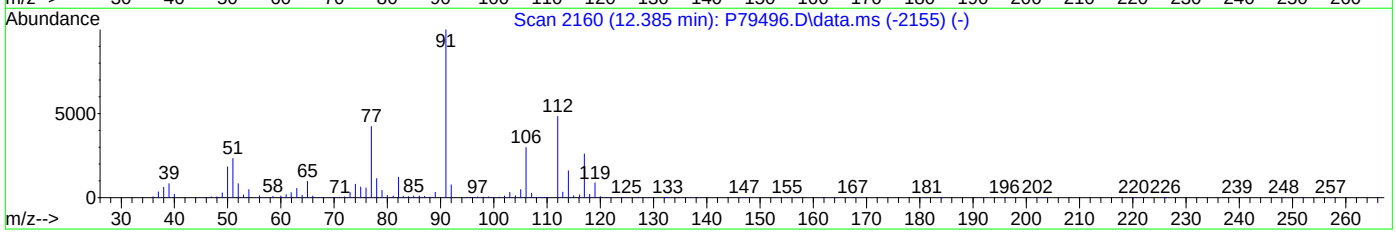
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42164.d
Acq On : 14 Dec 2022 3:41 pm
Operator : joannel
Sample : FC1102-12MSD 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:56 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42164.d\data.ms

(77) Ethylbenzene (C)

5.675min (-0.008) 68.20ug/L

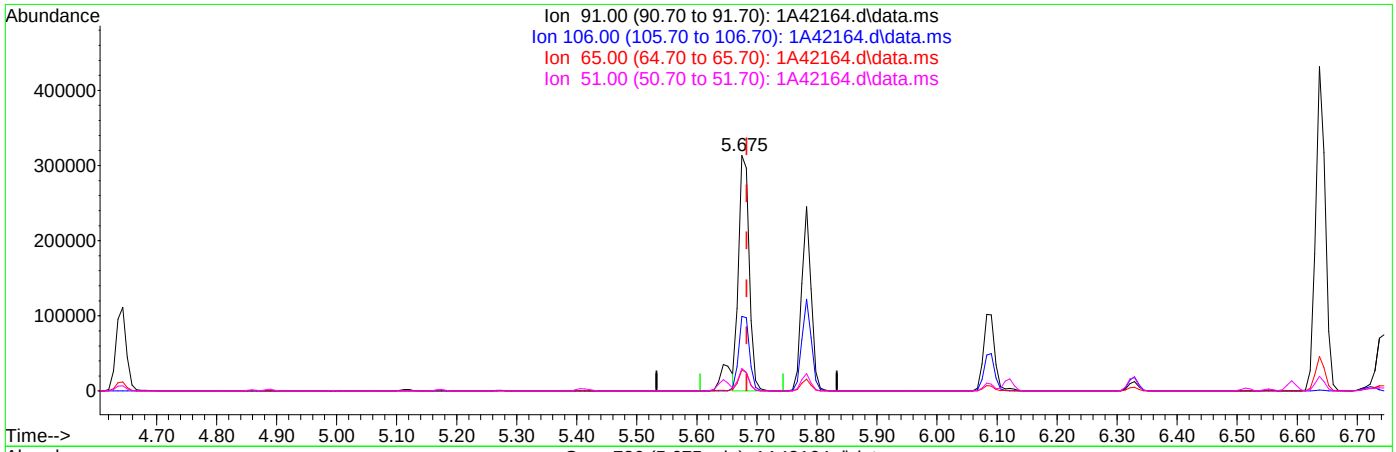
response 433385

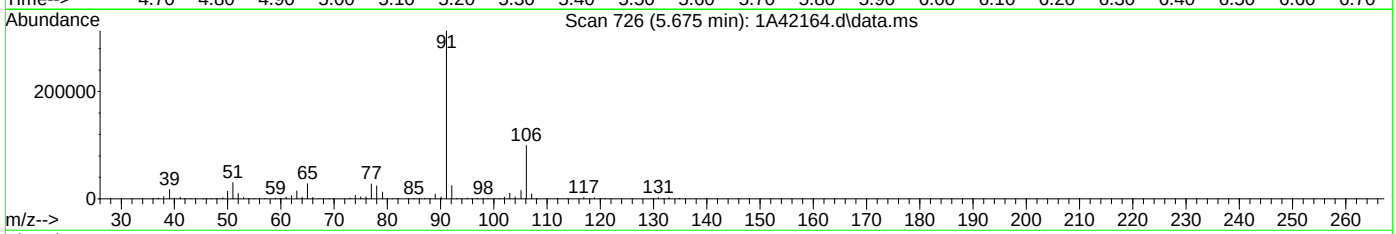
Ion	Exp%	Act%
91.00	100	100
106.00	32.70	31.66
65.00	8.50	8.95
51.00	9.00	9.53

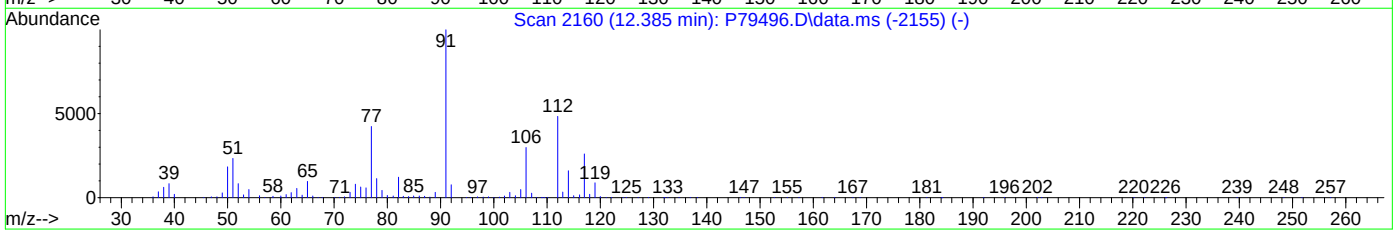
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42164.d
Acq On : 14 Dec 2022 3:41 pm
Operator : joannel
Sample : FC1102-12MSD 5X Inst : MSVOA17
Misc : MS52976,V1A1698,,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:36:56 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42164.d\data.ms

(77) Ethylbenzene (C)

5.675min (-0.008) 60.49ug/L m

response 384409

Ion	Exp%	Act%
91.00	100	100
106.00	32.70	31.66
65.00	8.50	8.95
51.00	9.00	9.53

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira
12/16/22 03:17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753636.d
Acq On : 15 Dec 2022 5:36 pm
Operator : kylieg
Sample : FC1239-2MS 20X Inst : MSVOA16
Misc : MS53010,VI2788,,,,,20
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:16:25 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.335	96	373146	50.00	ug/L	0.00
62) Chlorobenzene-d5	11.512	117	288994	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.877	152	151955	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.451	113	105283	52.86	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.72%			
49) 1,2-Dichloroethane-d4	8.037	65	123636	53.79	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.58%			
63) Toluene-d8	9.945	98	381042	46.76	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 93.52%			
86) 4-Bromofluorobenzene	12.725	174	121408	48.55	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.385	85	44946	27.69	ug/L	97
3) Chloromethane	2.702	50	51177	25.02	ug/L	95
4) Vinyl Chloride	2.855	62	45947	24.66	ug/L	97
5) 1,3-Butadiene	2.891	39	54687	36.39	ug/L	93
6) Bromomethane	3.385	94	12803	18.27	ug/L	94
7) Chloroethane	3.580	64	36993	39.19	ug/L	94
8) Trichlorofluoromethane	3.806	101	68623	31.38	ug/L	99
9) Ethyl Ether	4.300	59	27270	20.71	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.556	67	43317	24.29	ug/L	95
11) 1,1-Dichloroethene	4.556	61	68073	28.77	ug/L	98
12) Ethanol	4.531	45	19599	285.30	ug/L	92
13) Freon 113	4.623	101	35379	28.74	ug/L	95
14) Carbon Disulfide	4.604	76	98011	24.19	ug/L	96
15) Iodomethane	4.751	142	31334	29.80	ug/L	96
16) Acrolein	5.013	56	43614	74.74	ug/L	95
17) Allyl chloride	5.196	41	52420	23.56	ug/L	95
18) Methylene Chloride	5.336	49	56934	23.16	ug/L	98
19) Acetone	5.391	43	108317	90.44	ug/L	97
20) Methyl acetate	5.549	43	221278	100.51	ug/L	98
21) trans-1,2-Dichloroethene	5.556	61	52282	23.49	ug/L	97
22) Hexane	5.659	56	30234	36.51	ug/L	94
23) Methyl Tert Butyl Ether	5.684	73	88231	22.07	ug/L	87
24) Tert butyl alcohol	5.799	59	125304	178.45	ug/L	95
25) Acetonitrile	5.958	41	80048	166.84	ug/L	97
26) Di-isopropyl ether	6.147	45	111421	22.70	ug/L	94
27) Chloroprene	6.281	53	53727	26.75	ug/L	97
28) 1,1-Dichloroethane	6.293	63	69038	24.84	ug/L	98
29) Acrylonitrile	6.342	53	112594	105.23	ug/L	96
30) ETBE	6.574	59	100547	21.79	ug/L	96
31) Vinyl acetate	6.580	43	441237	135.27	ug/L	99
32) cis-1,2-Dichloroethene	6.945	96	32985	23.89	ug/L	99
33) 2,2-Dichloropropane	7.061	77	47358	21.10	ug/L	98
34) Bromochloromethane	7.183	128	15292	25.36	ug/L	93
35) Cyclohexane	7.202	56	63299	28.27	ug/L	96
36) Chloroform	7.250	83	59757	23.14	ug/L	97
37) Ethyl acetate	7.354	43	324755	112.53	ug/L	98
38) Tetrahydrofuran	7.439	42	27410	20.33	ug/L	98
40) Carbon Tetrachloride	7.427	117	49970	26.01	ug/L	99
41) 1,1,1-Trichloroethane	7.494	97	63534	27.66	ug/L	98
42) 2-Butanone	7.573	43	169530	94.22	ug/L	94
43) 1,1-Dichloropropene	7.634	75	45266	23.39	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753636.d
Acq On : 15 Dec 2022 5:36 pm
Operator : kylieg
Sample : FC1239-2MS 20X Inst : MSVOA16
Misc : MS53010,VI2788,,,,,20
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:16:25 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl Formate	7.726	59	126444	84.74	ug/L		92
45) Propionitrile	7.884	54	106690	186.67	ug/L		97
46) Methacrylonitrile	7.909	41	373261	214.70	ug/L		98
47) Benzene	7.903	78	130370	23.31	ug/L		95
48) TAME	8.006	73	88986	23.84	ug/L		95
50) Isobutyl alcohol	8.079	42	61000	360.94	ug/L		97
51) 1,2-Dichloroethane	8.116	62	52668	24.43	ug/L		100
52) Tert Amyl Alcohol	8.189	59	107458	177.56	ug/L		97
53) Trichloroethene	8.531	95	87760	58.39	ug/L		98
54) Methylcyclohexane	8.531	83	49391	29.18	ug/L		93
55) Dibromomethane	8.982	93	21617	24.33	ug/L		98
56) 1,2-Dichloropropane	9.061	63	33676	22.21	ug/L		96
57) Bromodichloromethane	9.122	83	43494	24.28	ug/L		96
58) Methyl methacrylate	9.244	41	37221	22.97	ug/L		94
59) 1,4-Dioxane	9.311	88	12857	284.45	ug/L		95
60) 2-Chloroethyl vinyl ether	9.658	63	129163	111.69	ug/L		96
61) cis-1,3-Dichloropropene	9.756	75	46481	22.45	ug/L		93
64) Toluene	10.000	91	131258	20.70	ug/L		96
65) 2-Nitropropane	10.201	41	76872	119.55	ug/L		91
66) 4-Methyl-2-pentanone	10.335	43	352693	98.38	ug/L		97
67) trans-1,3-Dichloropropene	10.402	75	43460	21.87	ug/L	#	76
68) Tetrachloroethene	10.408	166	134958	78.61	ug/L		98
69) Ethyl methacrylate	10.524	69	36195	18.04	ug/L		91
70) 1,1,2-Trichloroethane	10.567	83	25738	21.18	ug/L		98
71) Dibromochloromethane	10.762	129	31832	20.87	ug/L		94
72) 1,3-Dichloropropane	10.841	76	45494	19.48	ug/L		97
73) 1,2-Dibromoethane	11.018	107	30418	19.79	ug/L		95
74) 3,3-dimethyl-1-butanol	11.121	57	549699m	745.36	ug/L		
75) 2-hexanone	11.164	43	290161	91.04	ug/L		98
76) 1-Chlorohexane	11.469	91	38618	20.70	ug/L		94
77) Ethylbenzene	11.530	91	148367	21.00	ug/L		99
78) Chlorobenzene	11.530	112	84155	21.19	ug/L		98
79) 1,1,1,2-Tetrachloroethane	11.579	131	32443	22.47	ug/L		98
80) m,p-Xylene	11.670	91	218782	41.98	ug/L		99
81) o-Xylene	12.109	91	103823	20.66	ug/L		99
82) Styrene	12.164	104	73827	19.64	ug/L		97
83) Bromoform	12.219	173	23891	20.86	ug/L		97
84) Isopropylbenzene	12.420	105	129232	21.07	ug/L		99
87) cis-1,4-Dichloro-2-butene	12.768	53	11527	13.46	ug/L		97
88) n-Propylbenzene	12.841	91	158321	19.60	ug/L		99
89) Bromobenzene	12.853	156	32806	18.74	ug/L		92
90) 1,1,2,2-Tetrachloroethane	12.896	83	52397	19.39	ug/L		98
91) 1,3,5-Trimethylbenzene	13.024	105	104427	19.26	ug/L		99
92) 2-Chlorotoluene	13.024	91	104916	19.65	ug/L		95
93) trans-1,4-Dichloro-2-B...	13.085	53	10426	12.49	ug/L		85
94) 1,2,3-Trichloropropane	13.054	110	14906	17.63	ug/L		91
95) Cyclohexanone	13.115	55	16467	56.91	ug/L		95
96) 4-Chlorotoluene	13.188	91	89382	19.04	ug/L		98
97) tert-Butylbenzene	13.359	91	59037	19.57	ug/L		97
98) 1,2,4-Trimethylbenzene	13.432	105	103266	19.94	ug/L		98
99) Pentachloroethane	13.408	167	20762	21.62	ug/L		94
100) sec-Butylbenzene	13.542	105	129395	20.68	ug/L		99
101) 4-Isopropyltoluene	13.676	119	108923	20.99	ug/L		98
102) 1,3-Dichlorobenzene	13.810	146	60298	20.16	ug/L		98
103) 1,2,3-Trimethylbenzene	13.889	105	112852	21.28	ug/L		98
104) 1,4-Dichlorobenzene	13.895	146	64232	19.33	ug/L		99
105) n-Butylbenzene	14.121	92	54857	18.53	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753636.d
Acq On : 15 Dec 2022 5:36 pm
Operator : kylieg
Sample : FC1239-2MS 20X Inst : MSVOA16
Misc : MS53010,VI2788,,,,,20
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:16:25 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
106) Benzyl Chloride	14.133	126	12851	14.79	ug/L	#	79
107) 1,2-Dichlorobenzene	14.334	146	57695	19.83	ug/L		96
108) 1,2-Dibromo-3-Chloropr...	15.084	75	12232	16.03	ug/L		95
109) Hexachlorobutadiene	15.651	225	17248	20.31	ug/L		98
110) 1,2,4-Trichlorobenzene	15.694	180	35335	19.20	ug/L		97
111) Naphthalene	15.968	128	115953	18.18	ug/L		97
112) 1,2,3-Trichlorobenzene	16.133	180	36832	20.28	ug/L		99

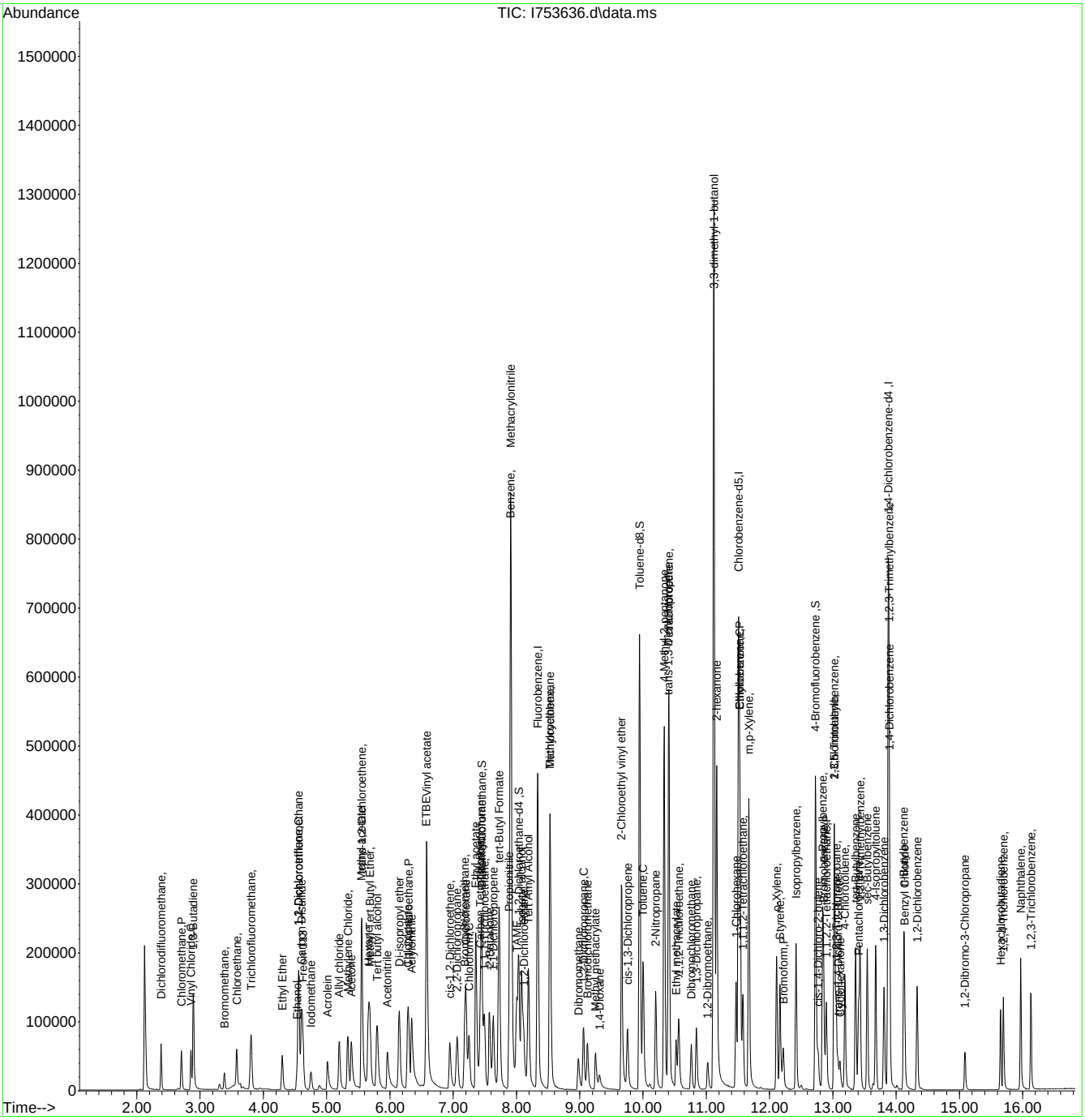
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.11
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753636.d
Acq On : 15 Dec 2022 5:36 pm
Operator : kylieg
Sample : FC1239-2MS 20X Inst : MSVOA16
Misc : MS53010,VI2788,,,,,20
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:16:25 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration



Manual Integration Approval Summary

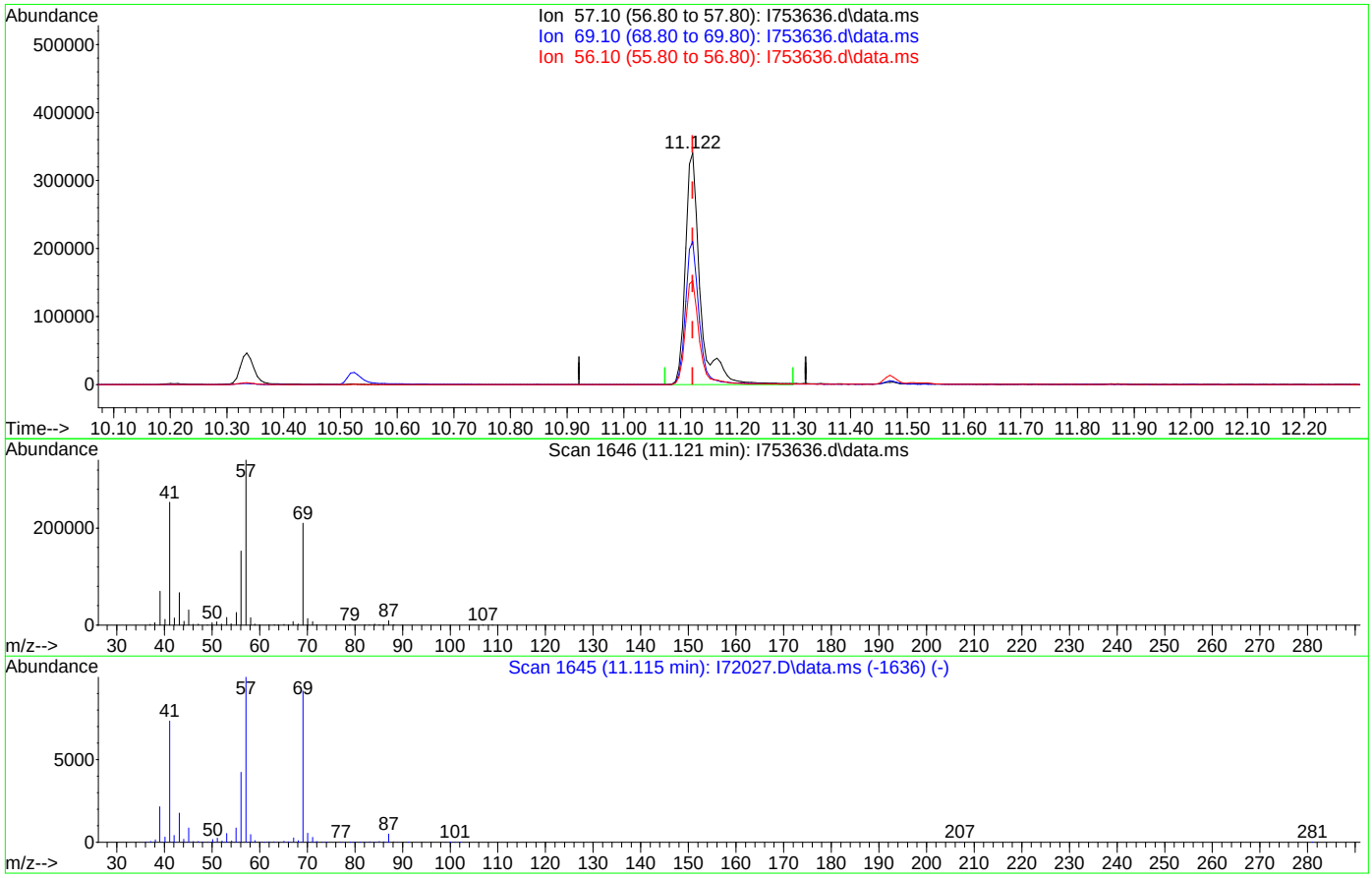
Sample Number: FC1239-2MS
Lab FileID: I753636.D
Injection Time: 12/15/22 17:36
Method: SW846 8260D
Analyst approved: 12/16/22 03:11 Jennifer Fereira
Supervisor approved: 12/16/22 03:17 Jennifer Fereira

Parameter	CAS	Sig#	R.T. (min.)	Reason
3,3-Dimethyl-1-Butanol	624-95-3		11.12	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753636.d
Acq On : 15 Dec 2022 5:36 pm
Operator : kylieg
Sample : FC1239-2MS 20X Inst : MSVOA16
Misc : MS53010,VI2788,,,,,20
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:06:06 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration



TIC: I753636.d\data.ms

(74) 3,3-dimethyl-1-butanol

11.121min (+0.000) 842.95ug/L

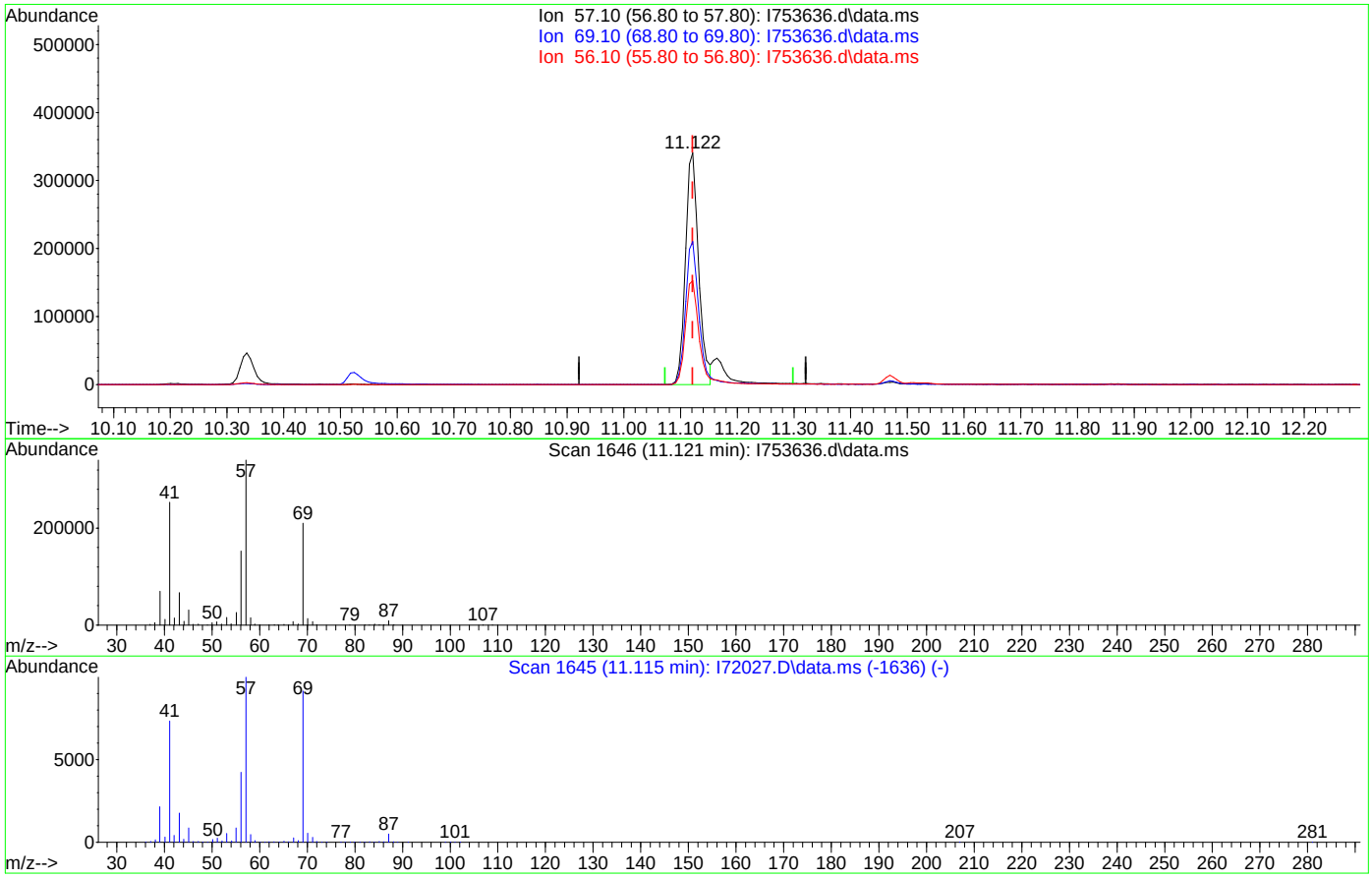
response 621671

Ion	Exp%	Act%
57.10	100	100
69.10	62.70	61.63
56.10	44.30	44.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753636.d
Acq On : 15 Dec 2022 5:36 pm
Operator : kylieg
Sample : FC1239-2MS 20X Inst : MSVOA16
Misc : MS53010,VI2788,,,,,20
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:06:06 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration



TIC: I753636.d\data.ms

(74) 3,3-dimethyl-1-butanol

11.121min (+0.000) 745.36ug/L m

response 549699

Ion	Exp%	Act%
57.10	100	100
69.10	62.70	61.63
56.10	44.30	44.82
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira
12/16/22 03:17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753637.d
Acq On : 15 Dec 2022 5:59 pm
Operator : kylieg
Sample : FC1239-2MSD 20X Inst : MSVOA16
Misc : MS53010,VI2788,,,,,20
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:16:41 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.335	96	374326	50.00	ug/L	0.00
62) Chlorobenzene-d5	11.512	117	292648	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.877	152	151069	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.445	113	106549	53.33	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.66%			
49) 1,2-Dichloroethane-d4	8.037	65	124019	53.79	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.58%			
63) Toluene-d8	9.945	98	381871	46.27	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 92.54%			
86) 4-Bromofluorobenzene	12.725	174	122453	49.25	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.50%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.385	85	46363	28.49	ug/L	98
3) Chloromethane	2.702	50	53223	25.96	ug/L	98
4) Vinyl Chloride	2.855	62	46569	24.91	ug/L	98
5) 1,3-Butadiene	2.891	39	55939	37.10	ug/L	99
6) Bromomethane	3.385	94	15735	22.33	ug/L	97
7) Chloroethane	3.580	64	36359	38.33	ug/L	99
8) Trichlorofluoromethane	3.806	101	66860	30.48	ug/L	97
9) Ethyl Ether	4.300	59	27318	20.68	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.550	67	46456	25.97	ug/L	98
11) 1,1-Dichloroethene	4.562	61	72223	30.43	ug/L	96
12) Ethanol	4.525	45	22747	330.08	ug/L	93
13) Freon 113	4.623	101	36938	29.91	ug/L	98
14) Carbon Disulfide	4.604	76	101517	24.97	ug/L	98
15) Iodomethane	4.751	142	40204	38.33	ug/L	98
16) Acrolein	5.013	56	45388	77.53	ug/L	94
17) Allyl chloride	5.196	41	55643	24.93	ug/L	91
18) Methylene Chloride	5.330	49	58544	23.77	ug/L	98
19) Acetone	5.391	43	110338	91.83	ug/L	94
20) Methyl acetate	5.549	43	234987	106.40	ug/L	98
21) trans-1,2-Dichloroethene	5.555	61	54623	24.46	ug/L	98
22) Hexane	5.659	56	31645	38.09	ug/L	92
23) Methyl Tert Butyl Ether	5.683	73	93923	23.42	ug/L	89
24) Tert butyl alcohol	5.799	59	136005	193.08	ug/L	97
25) Acetonitrile	5.958	41	85463	177.56	ug/L	99
26) Di-isopropyl ether	6.147	45	117864	23.94	ug/L	96
27) Chloroprene	6.281	53	55782	27.69	ug/L	97
28) 1,1-Dichloroethane	6.293	63	71806	25.76	ug/L	97
29) Acrylonitrile	6.342	53	114969	107.06	ug/L	100
30) ETBE	6.574	59	105972	22.89	ug/L	97
31) Vinyl acetate	6.580	43	462699	141.09	ug/L	98
32) cis-1,2-Dichloroethene	6.945	96	34635	25.00	ug/L	93
33) 2,2-Dichloropropane	7.061	77	49847	22.14	ug/L	99
34) Bromochloromethane	7.183	128	16499	27.27	ug/L	95
35) Cyclohexane	7.201	56	66841	29.76	ug/L	97
36) Chloroform	7.250	83	63683	24.59	ug/L	97
37) Ethyl acetate	7.354	43	347956	120.07	ug/L	99
38) Tetrahydrofuran	7.439	42	27889	20.62	ug/L	97
40) Carbon Tetrachloride	7.427	117	52647	27.31	ug/L	95
41) 1,1,1-Trichloroethane	7.494	97	64438	27.96	ug/L	99
42) 2-Butanone	7.573	43	171477	94.98	ug/L	97
43) 1,1-Dichloropropene	7.634	75	47319	24.37	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753637.d
Acq On : 15 Dec 2022 5:59 pm
Operator : kylieg
Sample : FC1239-2MSD 20X Inst : MSVOA16
Misc : MS53010,VI2788,,,,,20
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:16:41 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl Formate	7.726	59	129466	86.48	ug/L		95
45) Propionitrile	7.884	54	113132	197.31	ug/L		96
46) Methacrylonitrile	7.909	41	390920	224.15	ug/L		99
47) Benzene	7.903	78	134983	24.06	ug/L		99
48) TAME	8.006	73	96324	25.72	ug/L		97
50) Isobutyl alcohol	8.079	42	64879	382.68	ug/L		95
51) 1,2-Dichloroethane	8.116	62	54622	25.25	ug/L		100
52) Tert Amyl Alcohol	8.189	59	113975	187.73	ug/L		98
53) Trichloroethene	8.530	95	88371	58.61	ug/L		96
54) Methylcyclohexane	8.537	83	52158	30.72	ug/L		95
55) Dibromomethane	8.976	93	22024	24.71	ug/L		96
56) 1,2-Dichloropropane	9.061	63	35229	23.16	ug/L		95
57) Bromodichloromethane	9.116	83	46046	25.62	ug/L		92
58) Methyl methacrylate	9.250	41	38507	23.65	ug/L		95
59) 1,4-Dioxane	9.311	88	14151	312.46	ug/L		97
60) 2-Chloroethyl vinyl ether	9.658	63	133070	114.71	ug/L		97
61) cis-1,3-Dichloropropene	9.756	75	48536	23.37	ug/L		95
64) Toluene	10.000	91	138162	21.51	ug/L		99
65) 2-Nitropropane	10.201	41	80776	123.59	ug/L		91
66) 4-Methyl-2-pentanone	10.335	43	354615	97.68	ug/L		96
67) trans-1,3-Dichloropropene	10.402	75	46823	23.27	ug/L	#	79
68) Tetrachloroethene	10.408	166	137303	78.98	ug/L		98
69) Ethyl methacrylate	10.524	69	39123	19.21	ug/L		98
70) 1,1,2-Trichloroethane	10.561	83	27014	21.95	ug/L		98
71) Dibromochloromethane	10.762	129	33904	21.95	ug/L		98
72) 1,3-Dichloropropane	10.841	76	48011	20.30	ug/L		94
73) 1,2-Dibromoethane	11.018	107	32243	20.72	ug/L		97
74) 3,3-dimethyl-1-butanol	11.121	57	579443m	775.88	ug/L		
75) 2-hexanone	11.164	43	290094	89.88	ug/L		97
76) 1-Chlorohexane	11.469	91	41015	21.71	ug/L		95
77) Ethylbenzene	11.530	91	155138	21.68	ug/L		98
78) Chlorobenzene	11.530	112	89348	22.22	ug/L		97
79) 1,1,1,2-Tetrachloroethane	11.579	131	33559	22.95	ug/L		96
80) m,p-Xylene	11.670	91	226922	43.00	ug/L		100
81) o-Xylene	12.109	91	108937	21.41	ug/L		100
82) Styrene	12.164	104	77290	20.29	ug/L		95
83) Bromoform	12.219	173	25978	22.33	ug/L		97
84) Isopropylbenzene	12.420	105	135909	21.88	ug/L		99
87) cis-1,4-Dichloro-2-butene	12.767	53	13081	15.30	ug/L		95
88) n-Propylbenzene	12.841	91	165758	20.64	ug/L		99
89) Bromobenzene	12.853	156	34370	19.74	ug/L		90
90) 1,1,2,2-Tetrachloroethane	12.895	83	54517	20.30	ug/L		98
91) 1,3,5-Trimethylbenzene	13.024	105	109746	20.36	ug/L		97
92) 2-Chlorotoluene	13.024	91	109219	20.58	ug/L		99
93) trans-1,4-Dichloro-2-B...	13.078	53	12880	15.52	ug/L		95
94) 1,2,3-Trichloropropane	13.054	110	16016	19.05	ug/L		94
95) Cyclohexanone	13.115	55	18779	65.36	ug/L		96
96) 4-Chlorotoluene	13.188	91	93661	20.06	ug/L		97
97) tert-Butylbenzene	13.359	91	61317	20.44	ug/L		97
98) 1,2,4-Trimethylbenzene	13.432	105	108821	21.14	ug/L		98
99) Pentachloroethane	13.408	167	21446	22.46	ug/L		91
100) sec-Butylbenzene	13.542	105	134529	21.62	ug/L		98
101) 4-Isopropyltoluene	13.676	119	114310	22.15	ug/L		99
102) 1,3-Dichlorobenzene	13.810	146	62707	21.09	ug/L		98
103) 1,2,3-Trimethylbenzene	13.889	105	118024	22.39	ug/L		99
104) 1,4-Dichlorobenzene	13.895	146	66990	20.28	ug/L		99
105) n-Butylbenzene	14.121	92	57183	19.43	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753637.d
Acq On : 15 Dec 2022 5:59 pm
Operator : kylieg
Sample : FC1239-2MSD 20X Inst : MSVOA16
Misc : MS53010,VI2788,,,,,20
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:16:41 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

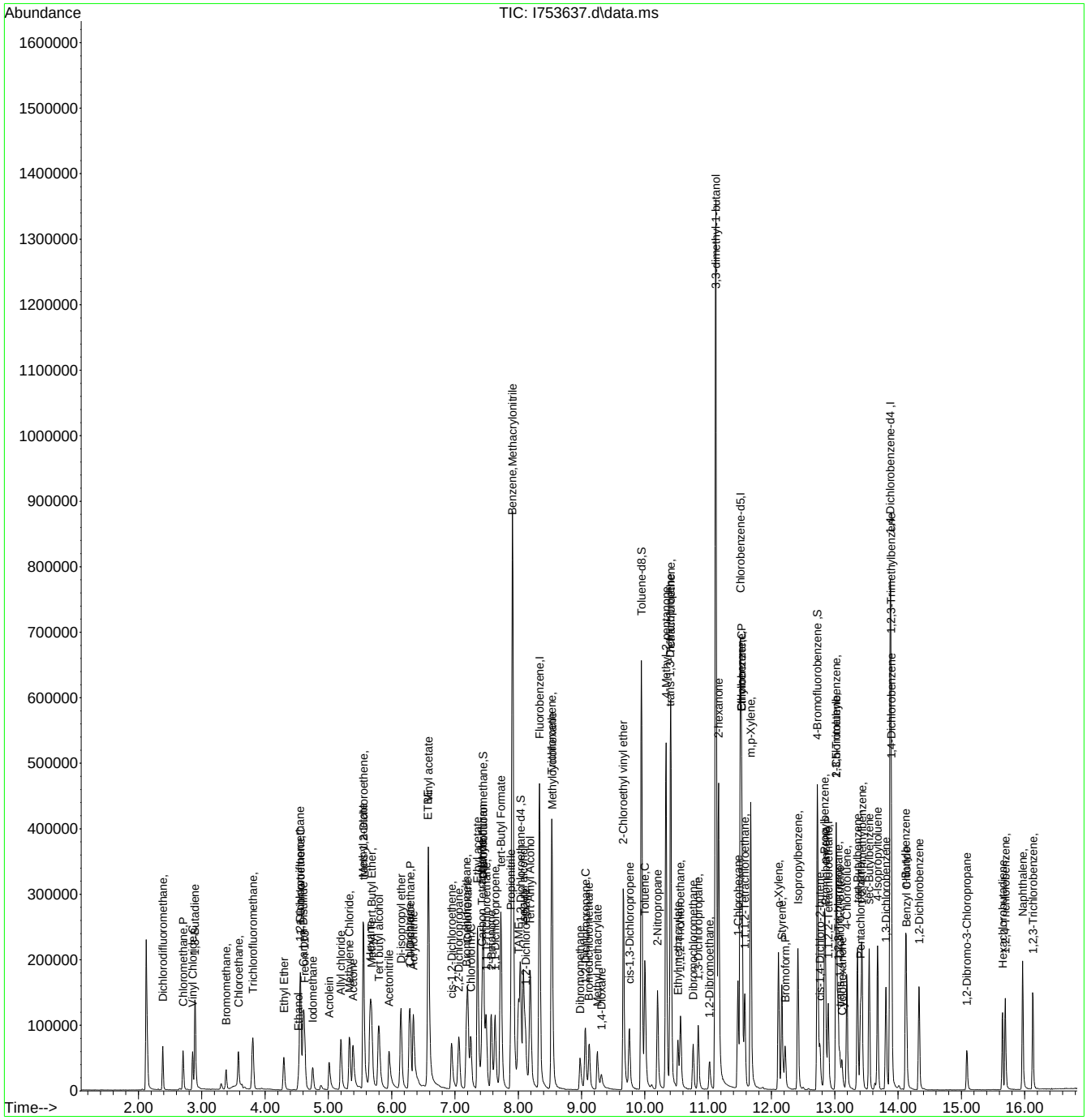
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) Benzyl Chloride	14.133	126	13850	15.99	ug/L #	69
107) 1,2-Dichlorobenzene	14.334	146	60892	21.06	ug/L	95
108) 1,2-Dibromo-3-Chloropr...	15.084	75	12955	17.08	ug/L	93
109) Hexachlorobutadiene	15.651	225	18420	21.82	ug/L	96
110) 1,2,4-Trichlorobenzene	15.694	180	37339	20.40	ug/L	94
111) Naphthalene	15.968	128	123806	19.52	ug/L	99
112) 1,2,3-Trichlorobenzene	16.133	180	38437	21.29	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753637.d
Acq On : 15 Dec 2022 5:59 pm
Operator : kylieg
Sample : FC1239-2MSD 20X Inst : MSVOA16
Misc : MS53010,VI2788,,,,,20
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:16:41 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration



Manual Integration Approval Summary

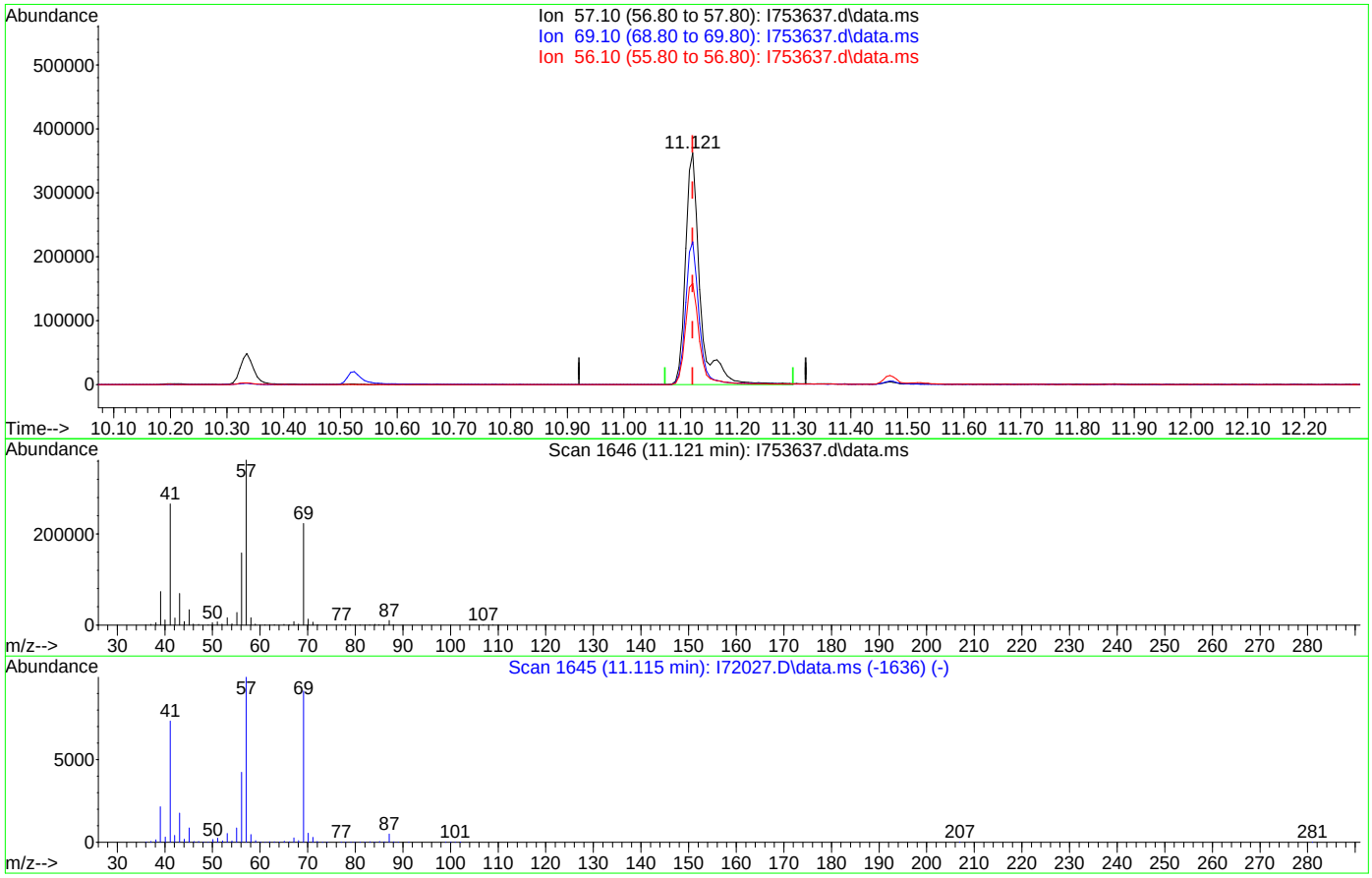
Sample Number: FC1239-2MSD
Lab FileID: I753637.D
Injection Time: 12/15/22 17:59
Method: SW846 8260D
Analyst approved: 12/16/22 03:11 Jennifer Fereira
Supervisor approved: 12/16/22 03:17 Jennifer Fereira

Parameter	CAS	Sig#	R.T. (min.)	Reason
3,3-Dimethyl-1-Butanol	624-95-3		11.12	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753637.d
Acq On : 15 Dec 2022 5:59 pm
Operator : kylieg
Sample : FC1239-2MSD 20X Inst : MSVOA16
Misc : MS53010,VI2788,,,,,20
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:06:10 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration



TIC: I753637.d\data.ms

(74) 3,3-dimethyl-1-butanol

11.121min (+0.000) 873.34ug/L

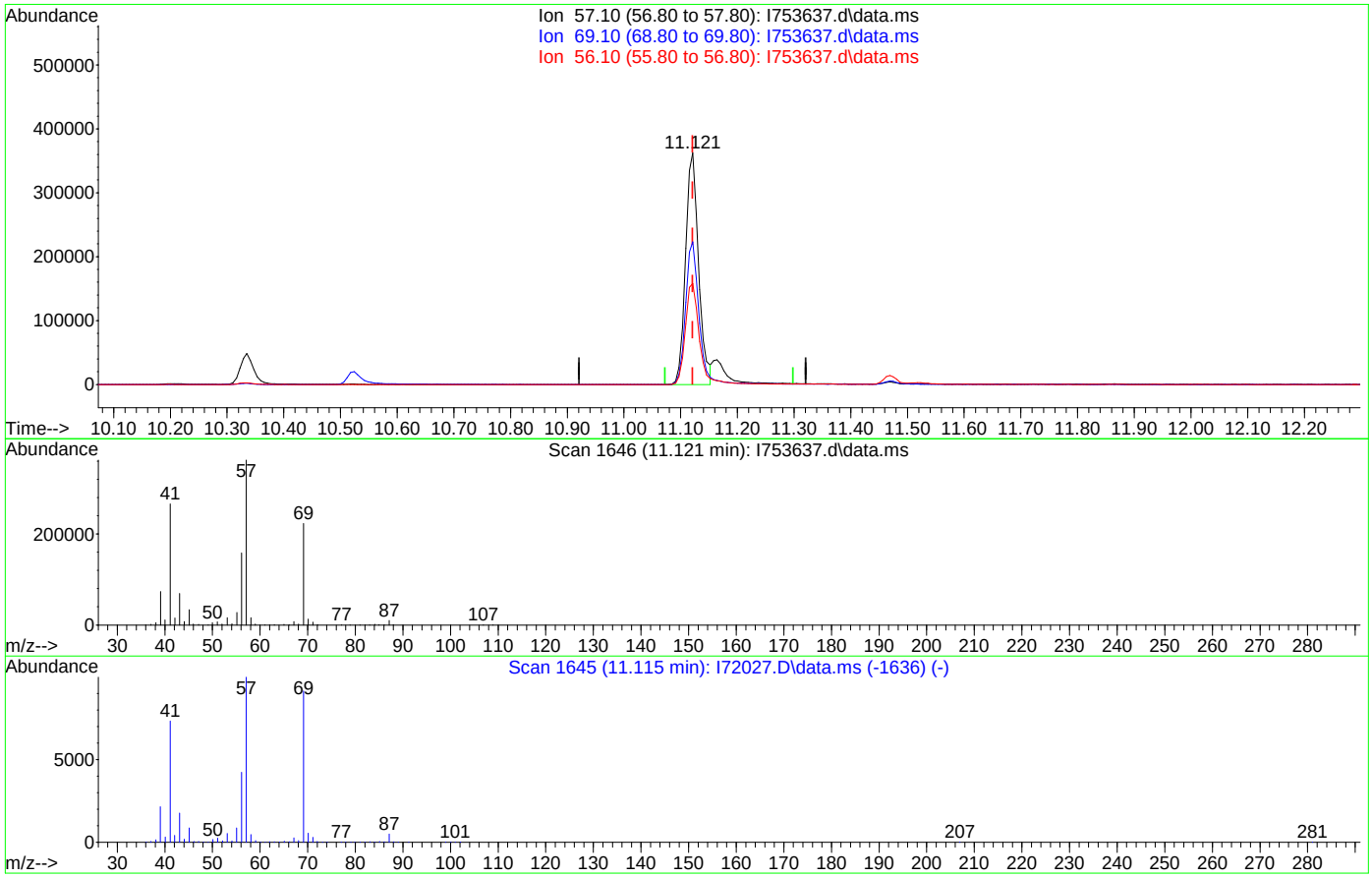
response 652231

Ion	Exp%	Act%
57.10	100	100
69.10	62.70	61.53
56.10	44.30	43.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753637.d
Acq On : 15 Dec 2022 5:59 pm
Operator : kylieg
Sample : FC1239-2MSD 20X Inst : MSVOA16
Misc : MS53010,VI2788,,,,,20
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:06:10 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration



TIC: I753637.d\data.ms

(74) 3,3-dimethyl-1-butanol

11.121min (+0.000) 775.88ug/L m

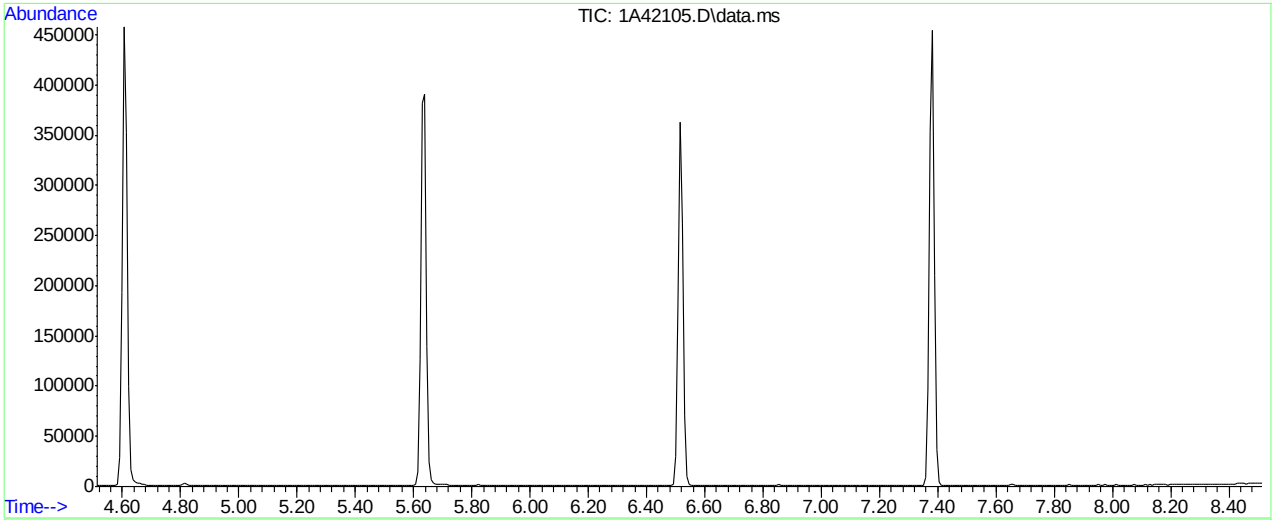
response 579443

Ion	Exp%	Act%
57.10	100	100
69.10	62.70	61.53
56.10	44.30	43.64
0.00	0.00	0.00

Methods: SW-846 8260B

Data File : C:\msdchem\1\DATA\12-12-2022\1A42105.D Vial: 3
Acq On : 12 Dec 2022 9:44 am Operator: joannel
Sample : bfb Inst : MSVOA17
Misc : MS52217,V1A1696,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V1A_12-12-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B



AutoFind: Scans 834, 835, 836; Background Corrected with Scan 829

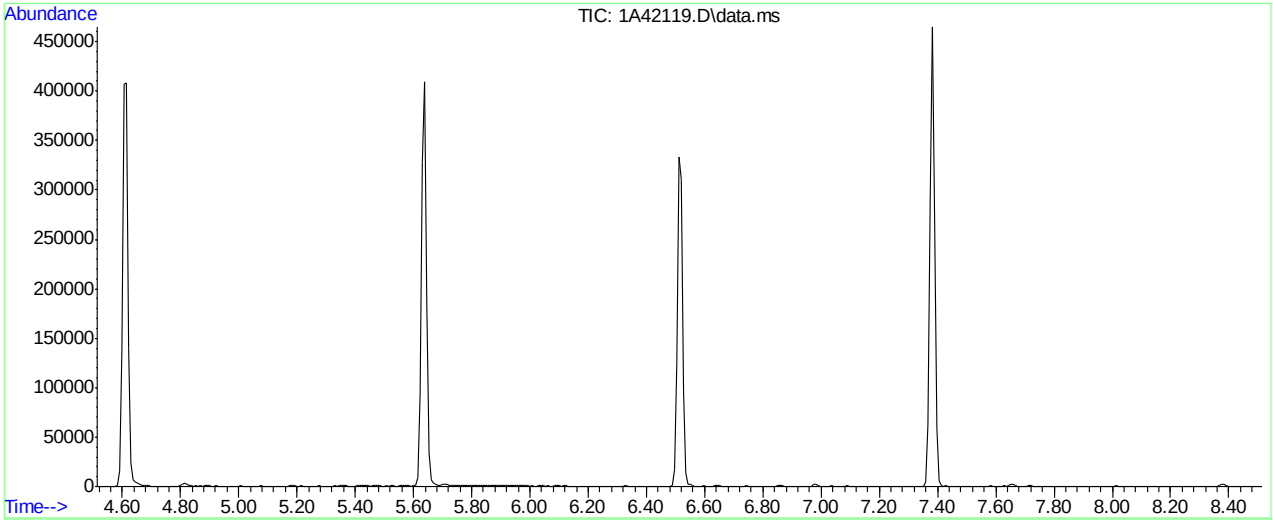
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.8	9811	PASS
75	95	30	60	49.0	26979	PASS
95	95	100	100	100.0	55021	PASS
96	95	5	9	6.6	3640	PASS
173	174	0.00	2	0.6	295	PASS
174	95	50	100	86.2	47427	PASS
175	174	5	9	7.2	3398	PASS
176	174	95	101	97.4	46184	PASS
177	176	5	9	6.5	3012	PASS

1A42105.D V1A_12-12-2022.M Tue Dec 13 09:39:22 2022

Methods: SW-846 8260B

Data File : C:\msdchem\1\DATA\12-13-2022\1A42119.D Vial: 1
Acq On : 13 Dec 2022 9:03 am Operator: joannel
Sample : BFB Inst : MSVOA17
Misc : MS52217,V1A1697,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V1A_12-12-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B



AutoFind: Scans 834, 835, 836; Background Corrected with Scan 829

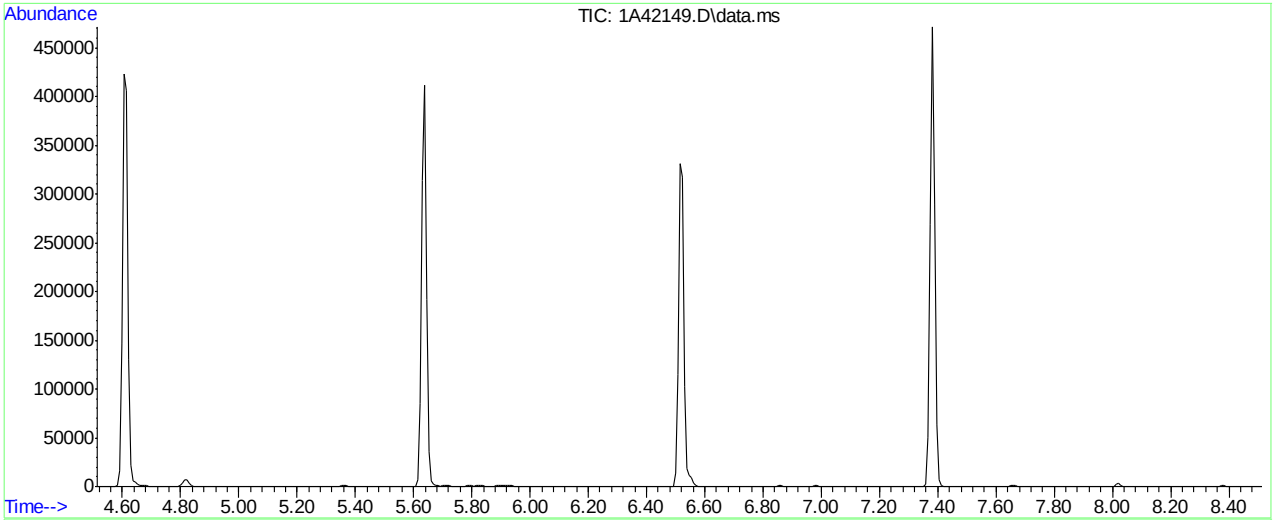
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.1	9496	PASS
75	95	30	60	49.0	25784	PASS
95	95	100	100	100.0	52581	PASS
96	95	5	9	6.6	3447	PASS
173	174	0.00	2	0.7	301	PASS
174	95	50	100	85.7	45077	PASS
175	174	5	9	6.9	3129	PASS
176	174	95	101	97.9	44131	PASS
177	176	5	9	6.7	2961	PASS

1A42119.D V1A_12-12-2022.M Tue Dec 13 09:44:29 2022

Methods: SW-846 8260B

Data File : C:\msdchem\1\DATA\12-14-2022\1A42149.D Vial: 1
Acq On : 14 Dec 2022 9:45 am Operator: joannel
Sample : BFB Inst : MSVOA17
Misc : MS52217,V1A1698,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V1A_12-12-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B



AutoFind: Scans 834, 835, 836; Background Corrected with Scan 829

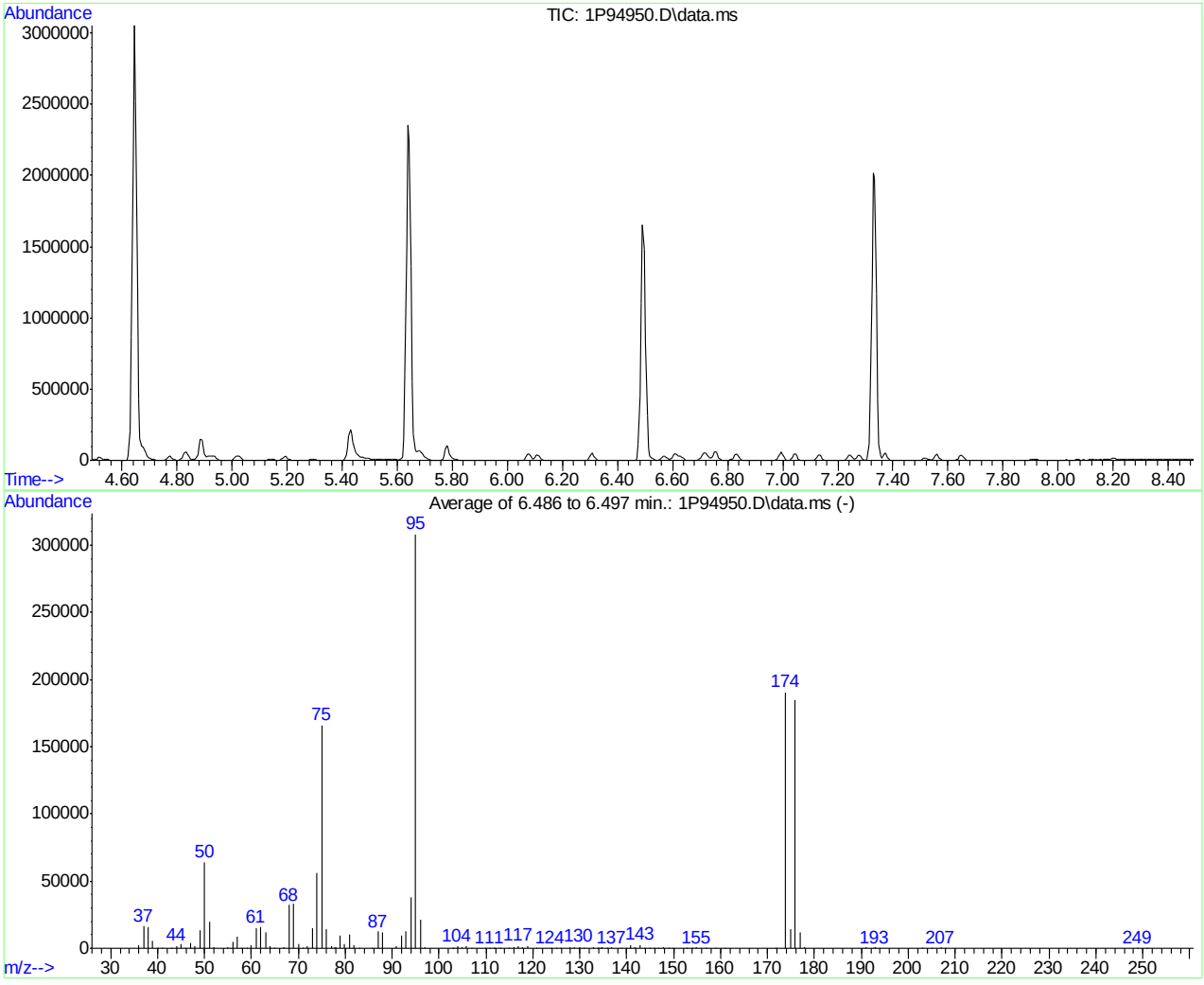
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.4	9470	PASS
75	95	30	60	49.4	25424	PASS
95	95	100	100	100.0	51485	PASS
96	95	5	9	6.5	3344	PASS
173	174	0.00	2	0.7	311	PASS
174	95	50	100	87.4	45015	PASS
175	174	5	9	7.2	3223	PASS
176	174	95	101	97.6	43922	PASS
177	176	5	9	6.6	2908	PASS

1A42149.D V1A_12-12-2022.M Wed Dec 14 10:51:24 2022

Methods: SW-846 8260B

```
Data File : C:\msdchem\1\DATA\2022-11-04\1P94950.D       Vial: 2
Acq On    :  4 Nov 2022  10:24 am                     Operator: courtnef
Sample    : BFB                                      Inst    : MSVOA13
Misc      : MS52500,V1P3621,,,,,                     Multiplr: 1.00
MS Integration Params: big.p

Method    : C:\msdchem\1\MET...V1P_2022-10-31.M (RTE Integrator)
Title     : SW-846 Method 5035A/8260B
```



AutoFind: Scans 1127, 1128, 1129; Background Corrected with Scan 1120

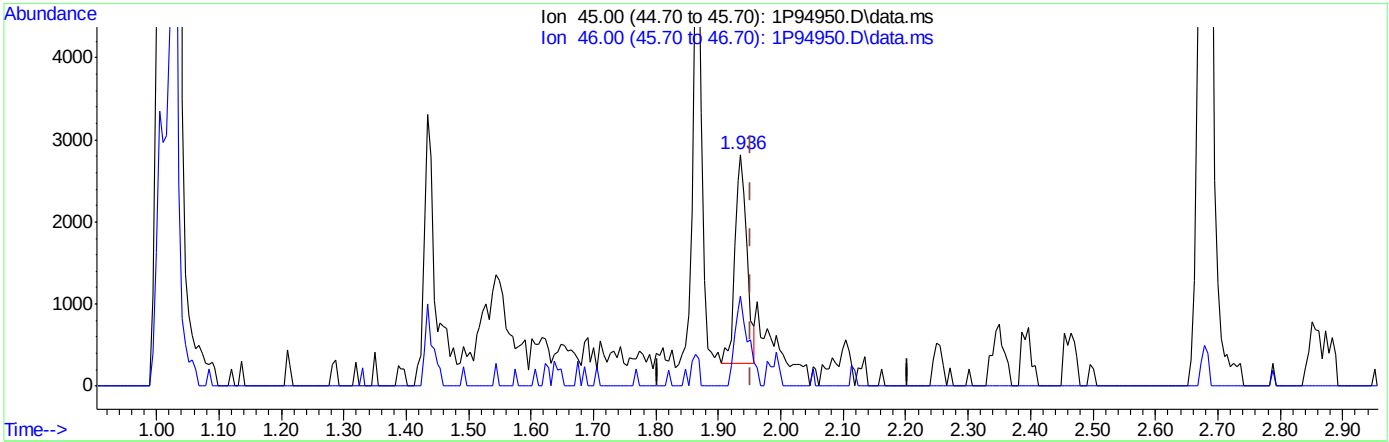
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	64154	PASS
75	95	30	60	53.8	165824	PASS
95	95	100	100	100.0	308138	PASS
96	95	5	9	6.9	21365	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	61.8	190554	PASS
175	174	5	9	7.3	13968	PASS
176	174	95	101	96.9	184618	PASS
177	176	5	9	6.5	11968	PASS

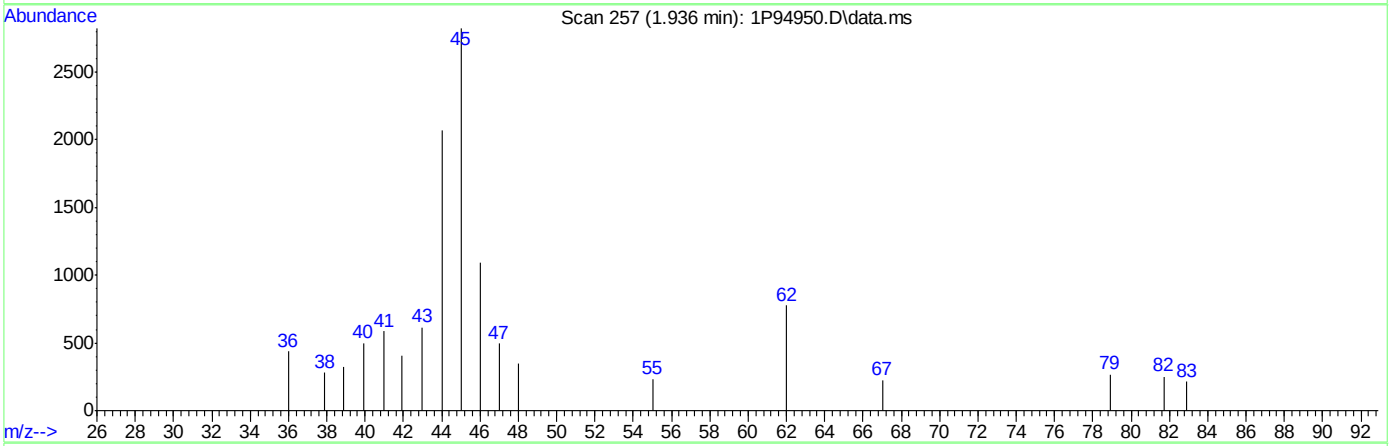
1P94950.D V1P_2022-10-31.M Fri Nov 04 10:42:48 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(10) Ethanol

1.936min (-0.017) 26.20ug/L

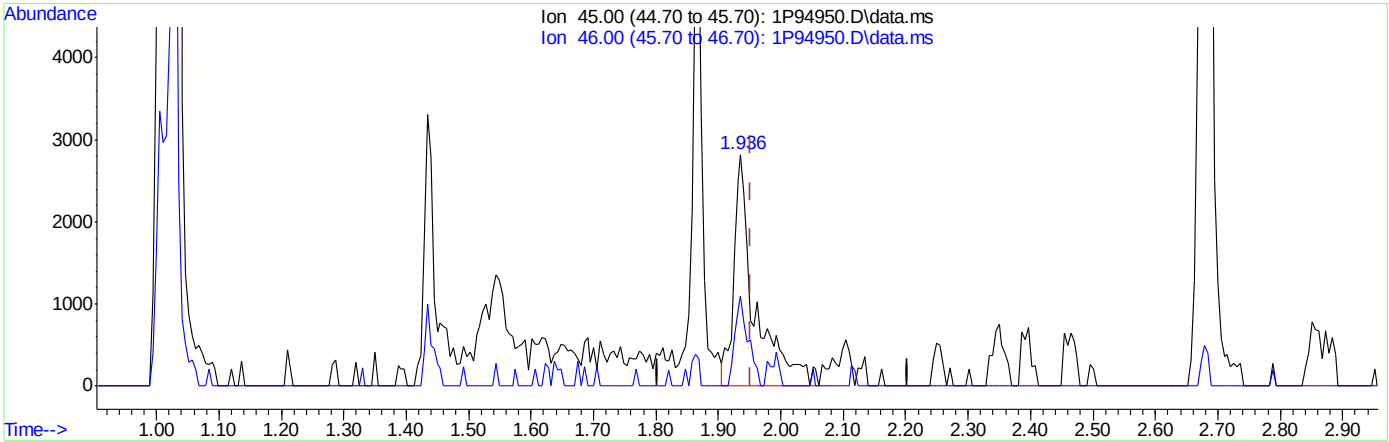
response 3550

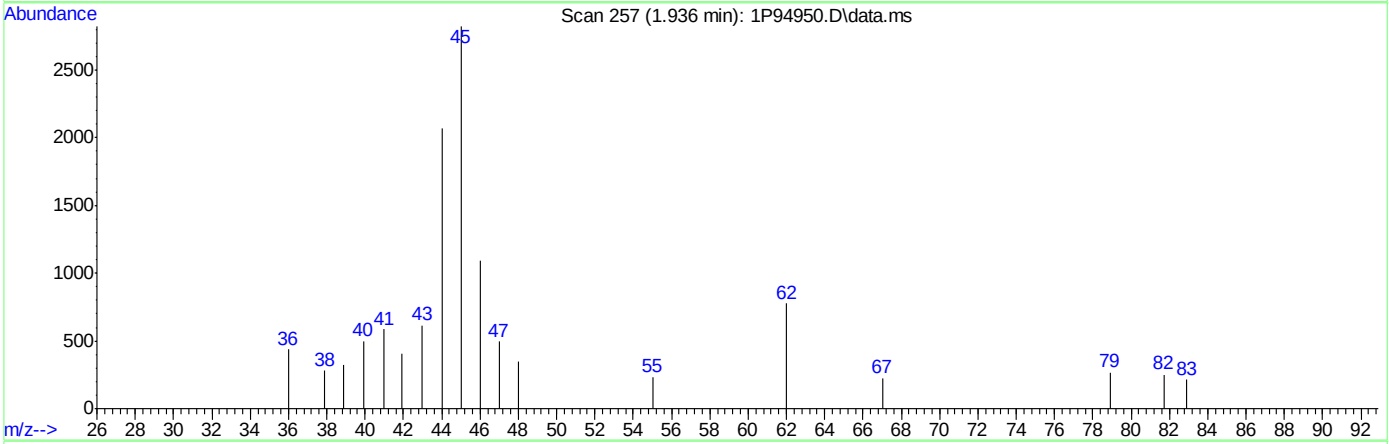
Ion	Exp%	Act%
45.00	100	100
46.00	42.10	42.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(10) Ethanol

1.936min (-0.017) 50.67ug/L m

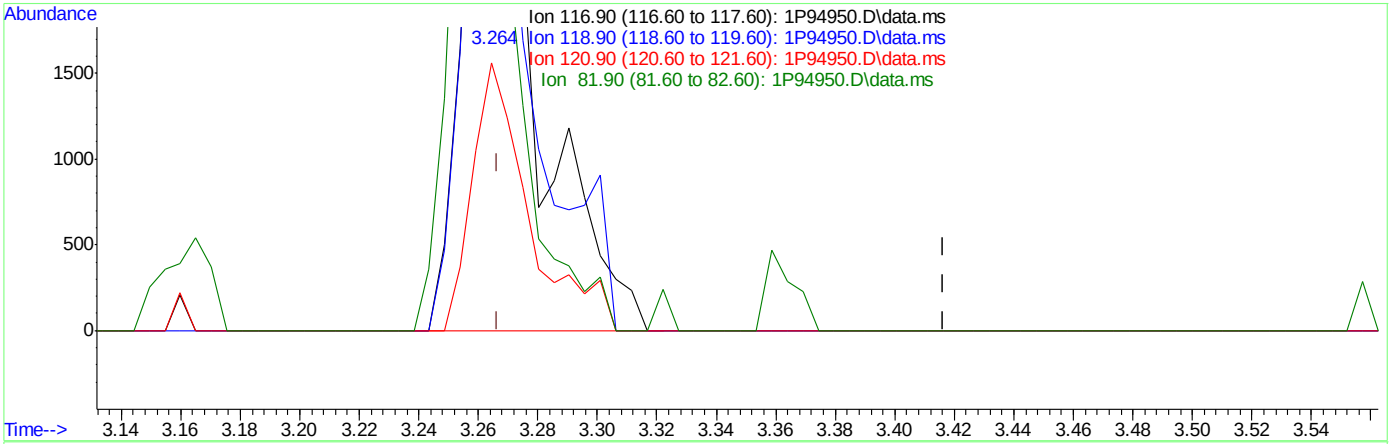
response 6820

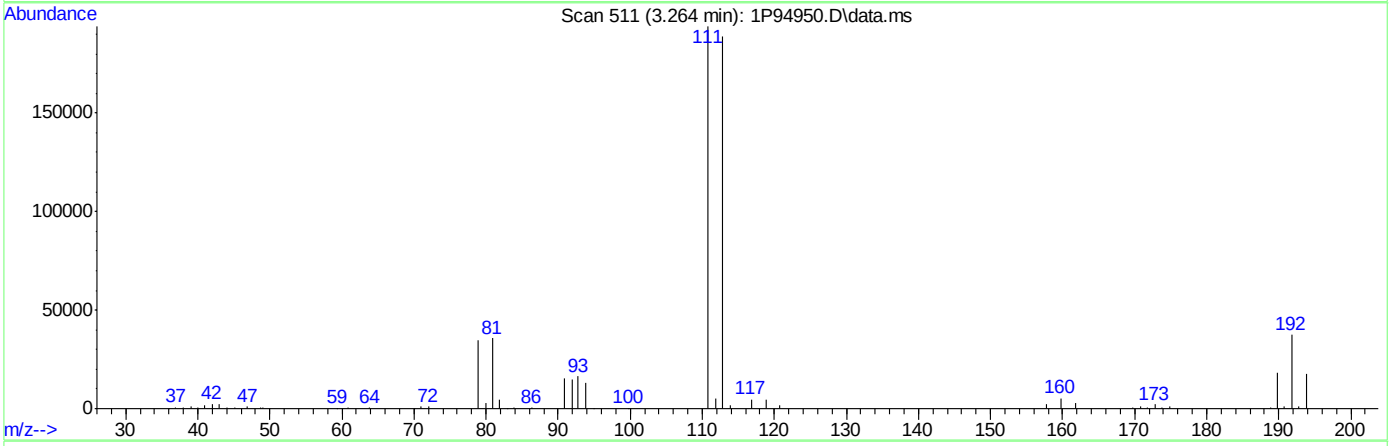
Ion	Exp%	Act%
45.00	100	100
46.00	42.10	38.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(40) Carbon Tetrachloride ( )

3.264min (-0.002) 1.15ug/L

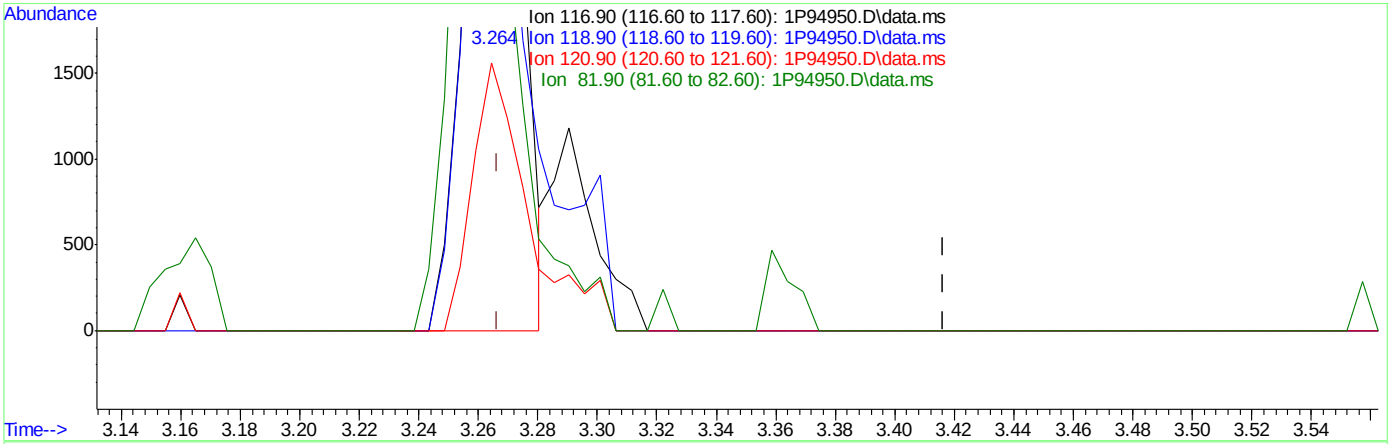
response 6643

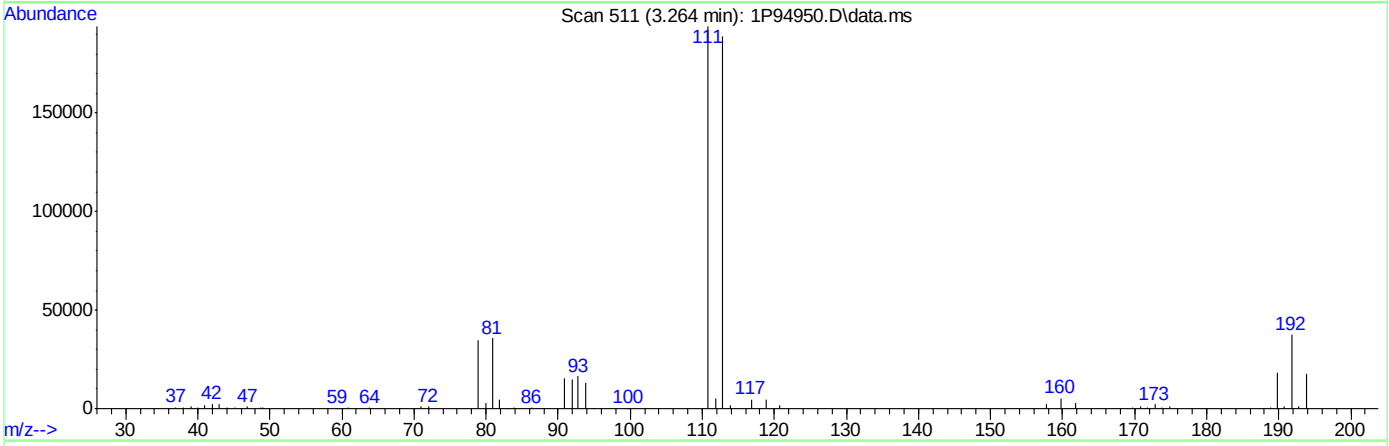
Ion	Exp%	Act%
116.90	100	100
118.90	98.90	95.26
120.90	30.30	33.86
81.90	27.70	93.94#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(40) Carbon Tetrachloride ( )

3.264min (-0.002) 0.94ug/L m

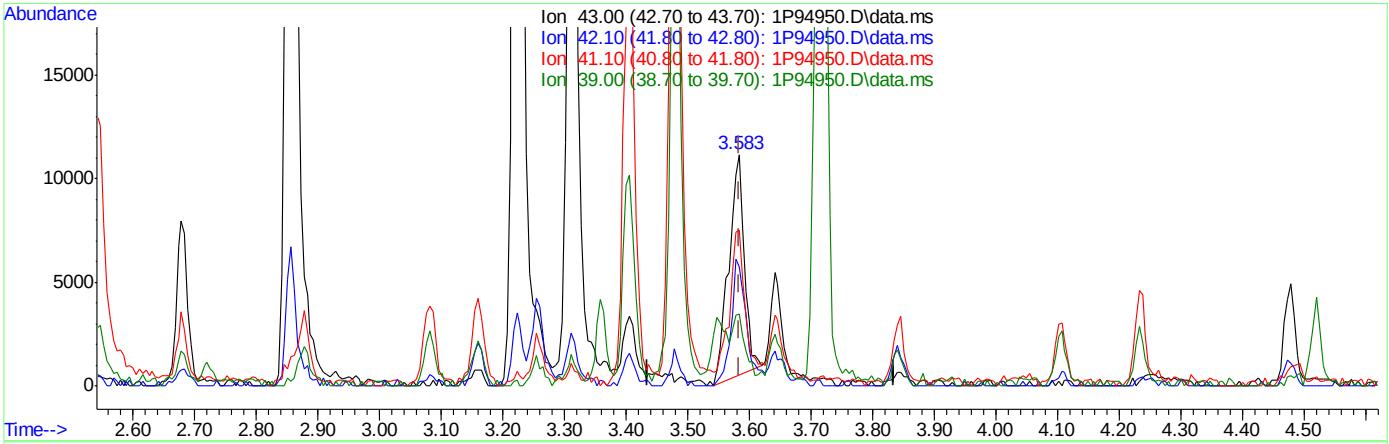
response 5448

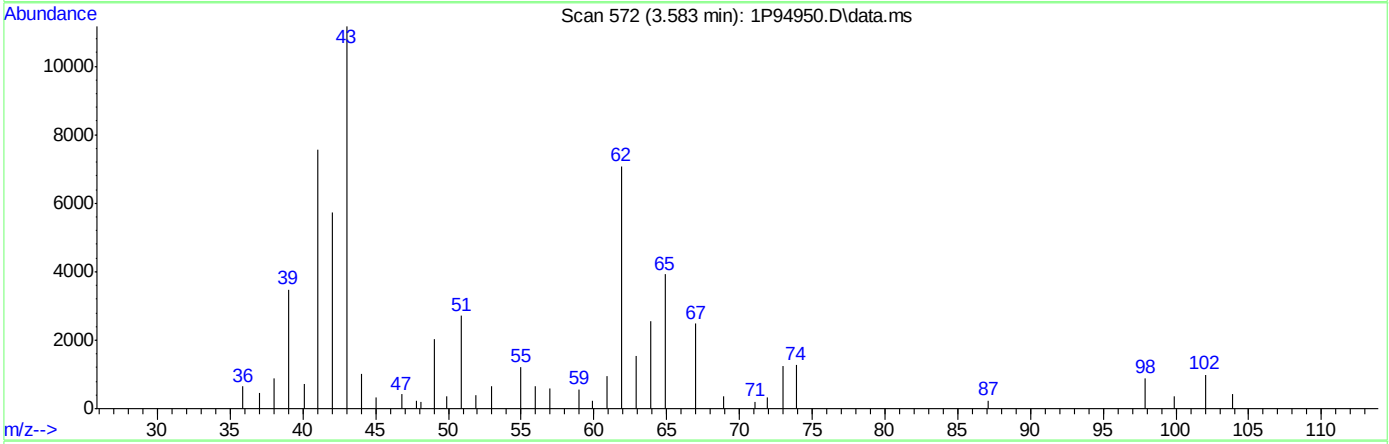
Ion	Exp%	Act%
116.90	100	100
118.90	98.90	95.26
120.90	30.30	33.86
81.90	27.70	93.94#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(50) Isobutyl alcohol

3.583min (-0.002) 27.20ug/L

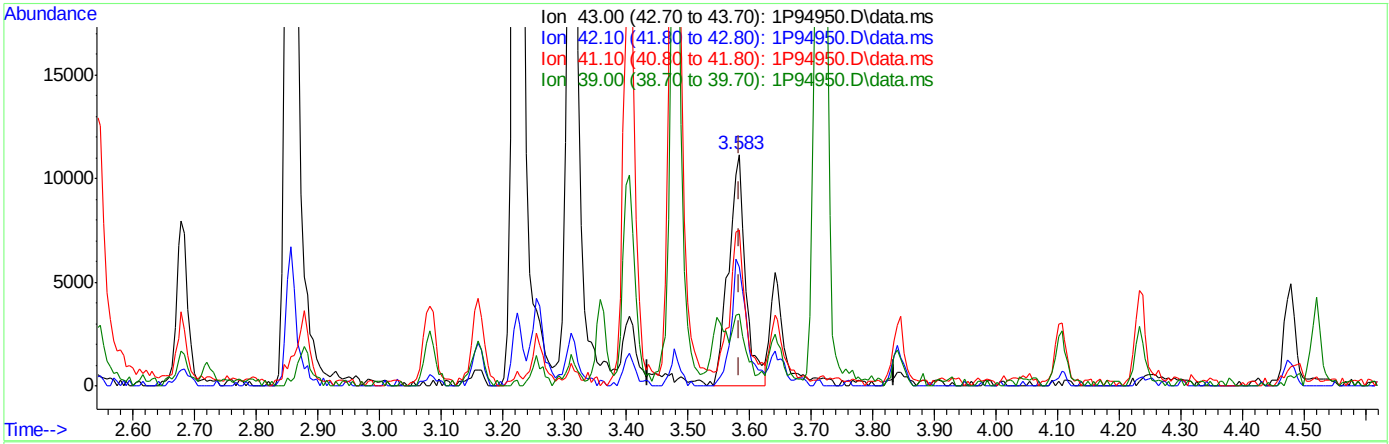
response 18709

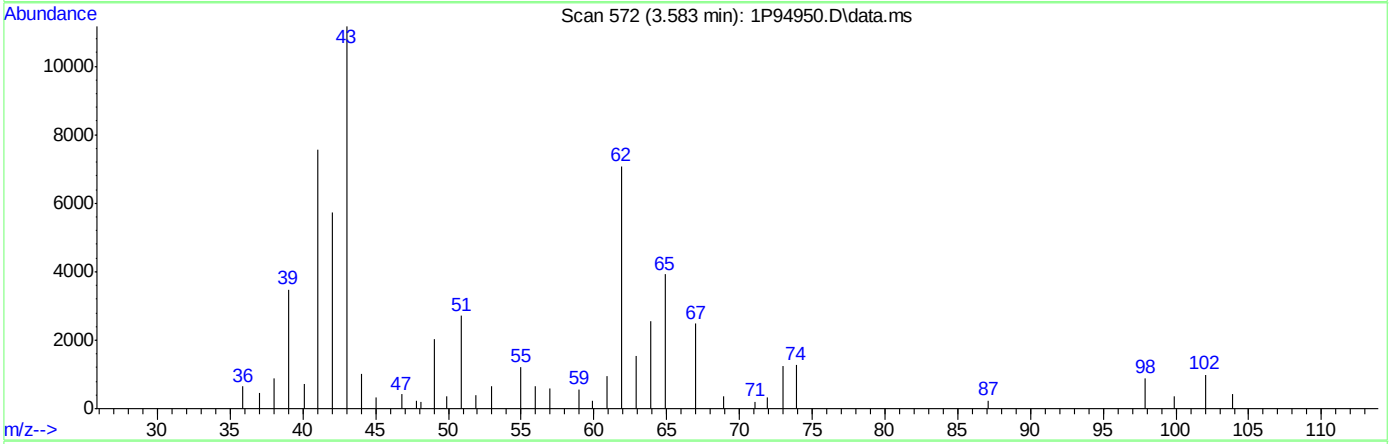
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	51.31
41.10	71.00	61.74
39.00	28.30	24.56

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(50) Isobutyl alcohol

3.583min (-0.002) 31.06ug/L m

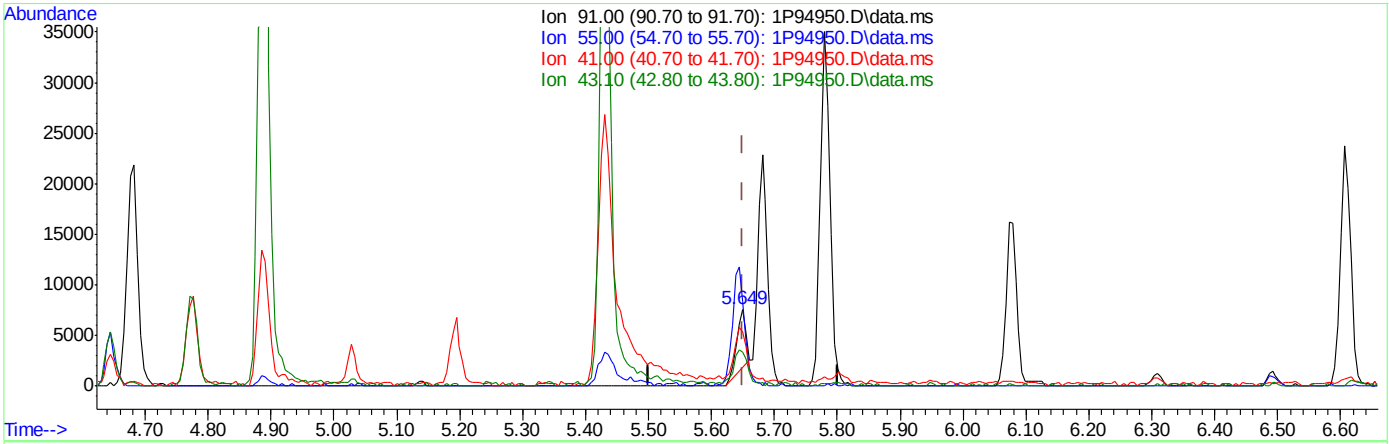
response 21364

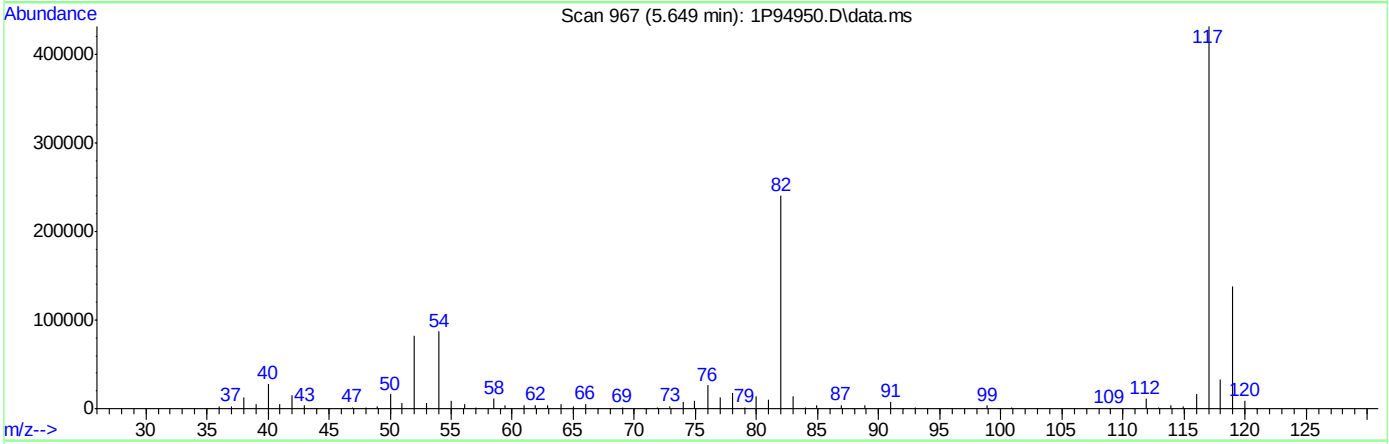
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	51.31
41.10	71.00	67.64
39.00	28.30	31.13

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(76) 1-Chlorohexane

5.649min (-0.002) 0.93ug/L

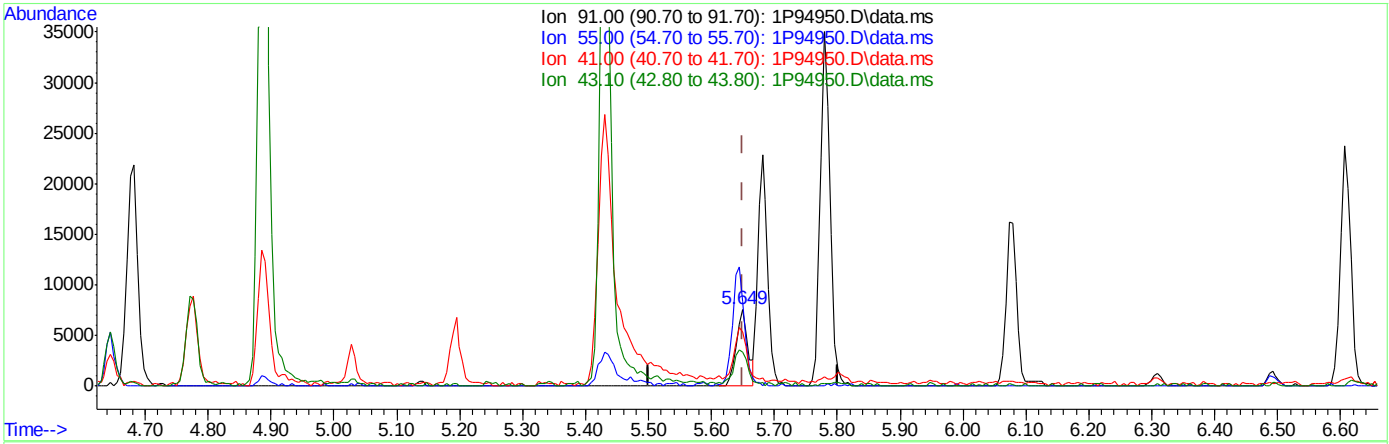
response 5929

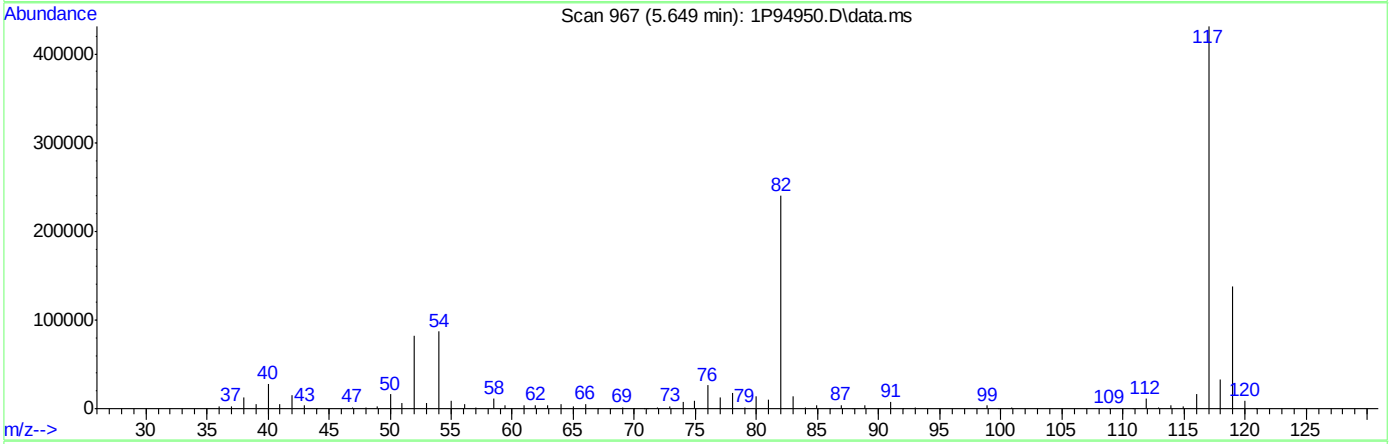
Ion	Exp%	Act%
91.00	100	100
55.00	65.90	98.22#
41.00	54.50	58.96
43.10	42.60	36.51

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(76) 1-Chlorohexane

5.649min (-0.002) 1.51ug/L m

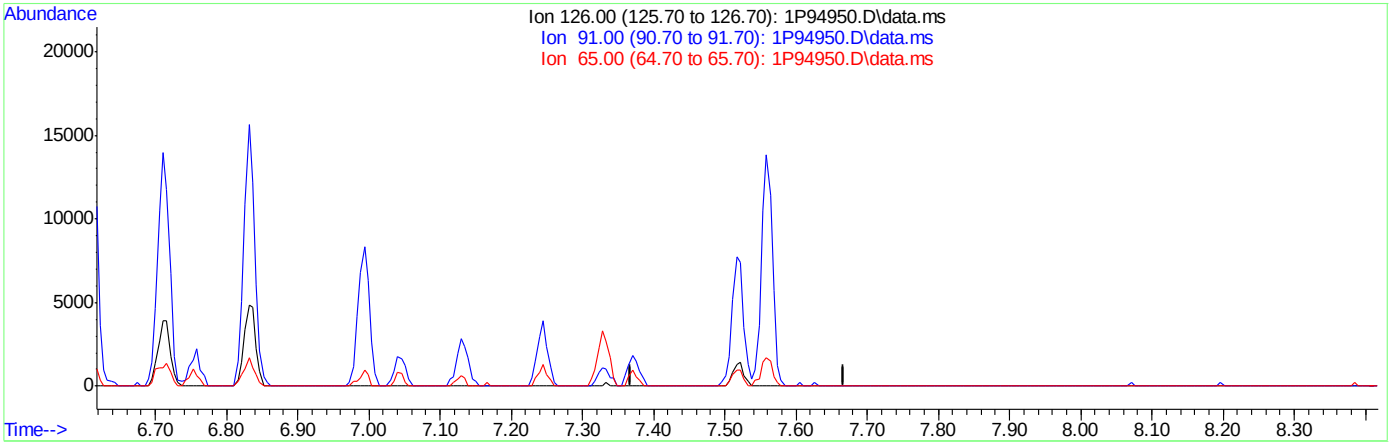
response 9582

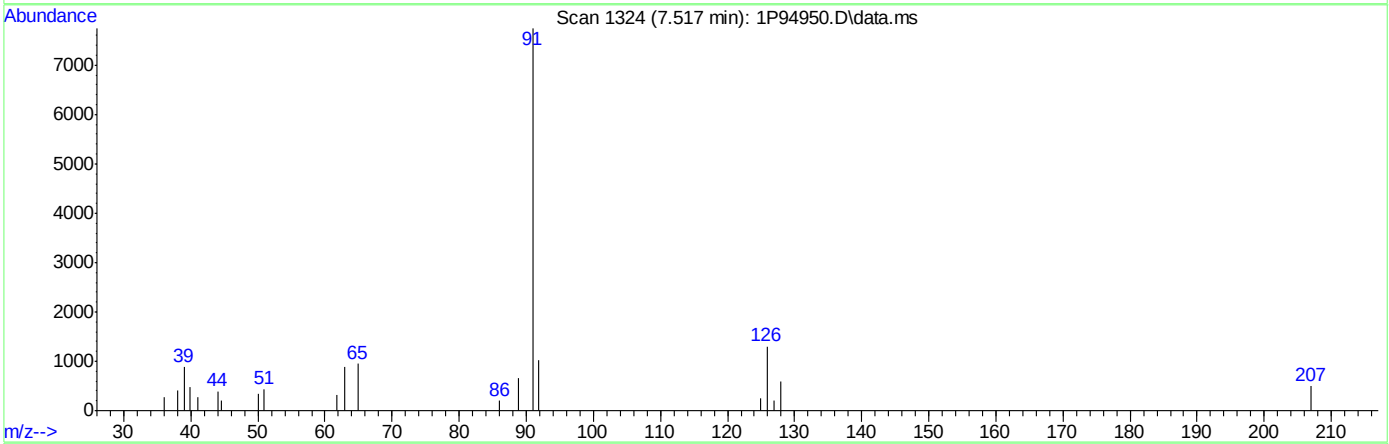
Ion	Exp%	Act%
91.00	100	100
55.00	65.90	109.37#
41.00	54.50	70.46
43.10	42.60	44.72

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(107) Benzyl Chloride

7.518min (-7.518) 0.00ug/L

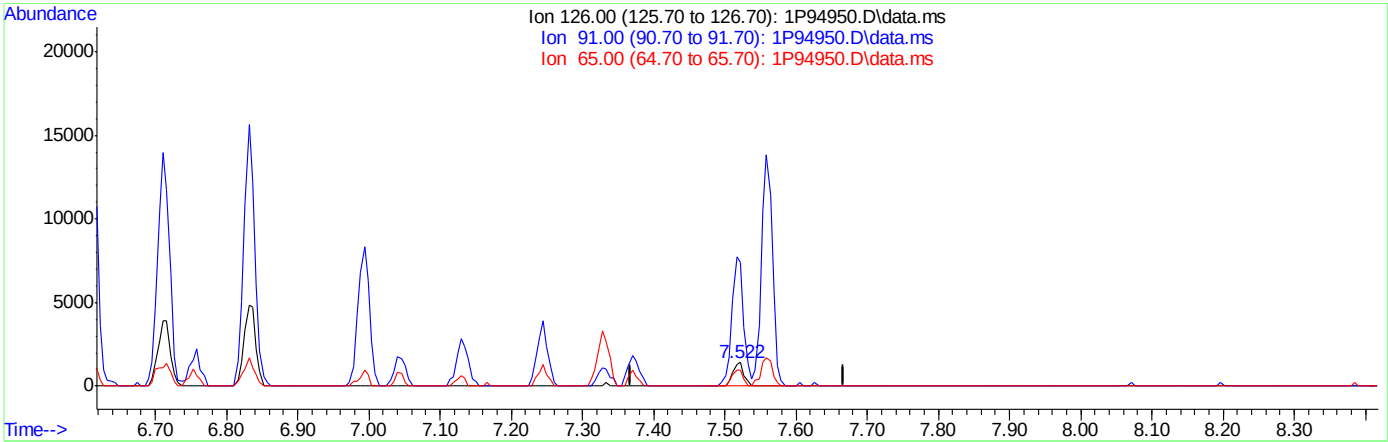
response 0

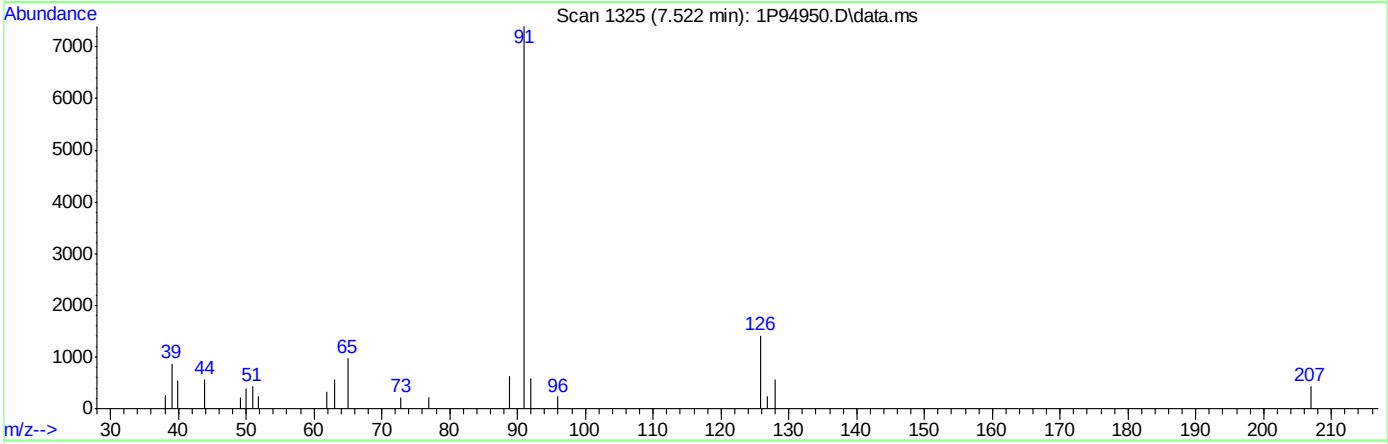
Ion	Exp%	Act%
126.00	100	0.00
91.00	528.70	0.00#
65.00	64.00	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(107) Benzyl Chloride

7.522min (+0.004) 0.91ug/L m

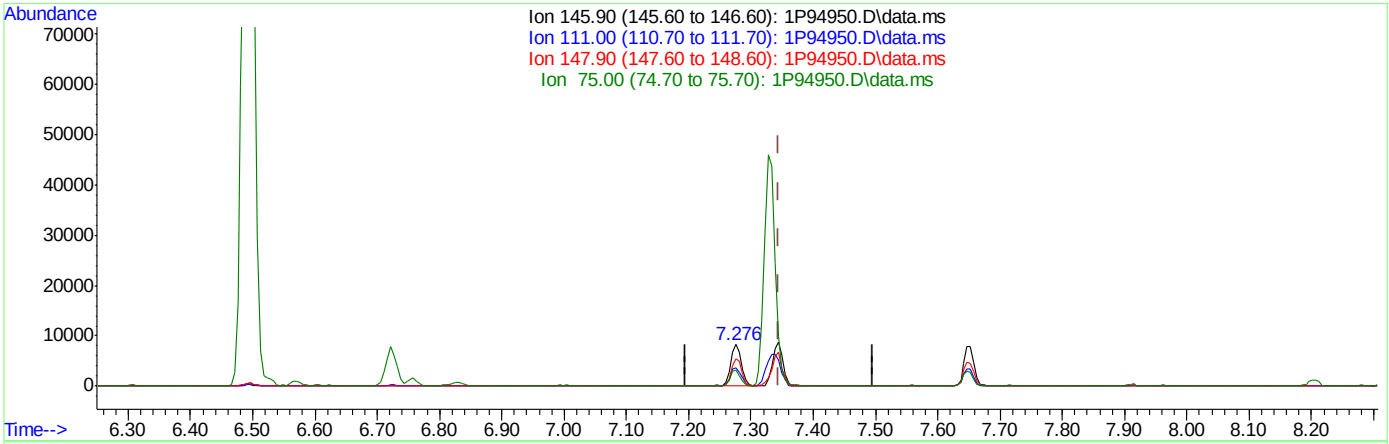
response 1486

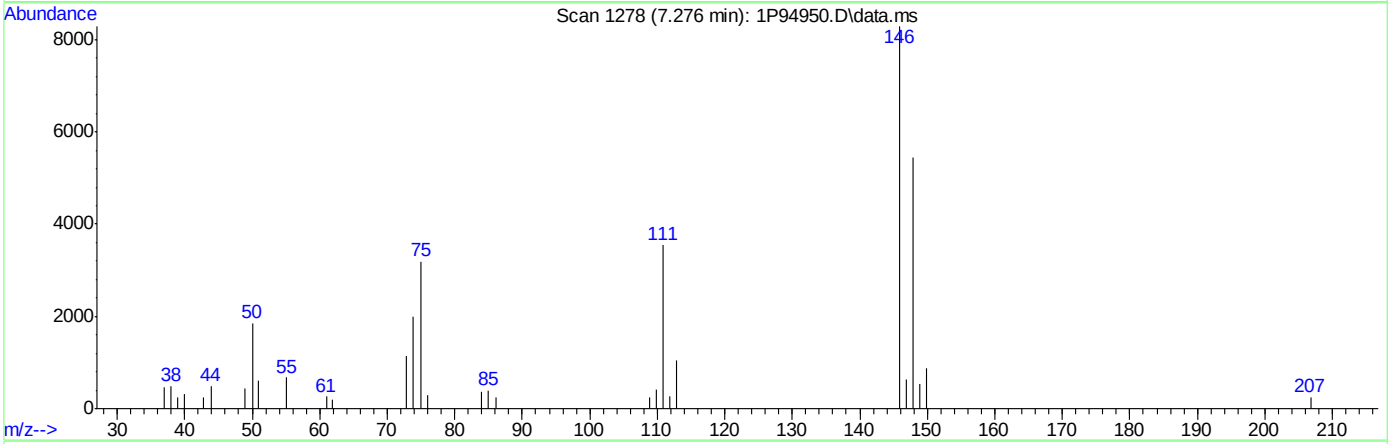
Ion	Exp%	Act%
126.00	100	100
91.00	528.70	521.21
65.00	64.00	69.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:45:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(105) 1,4-Dichlorobenzene

7.276min (-0.070) 1.18ug/L

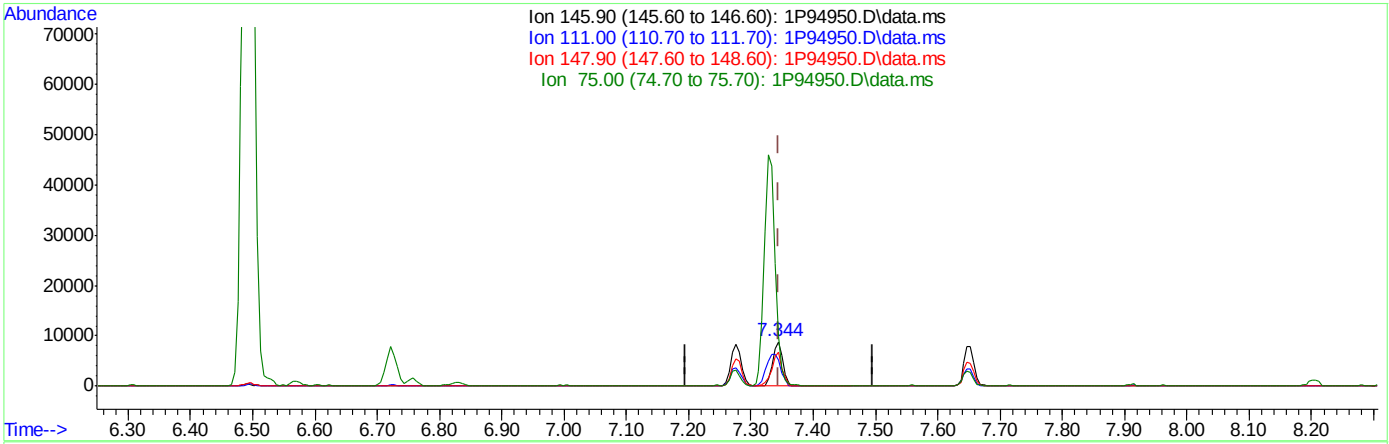
response 9348

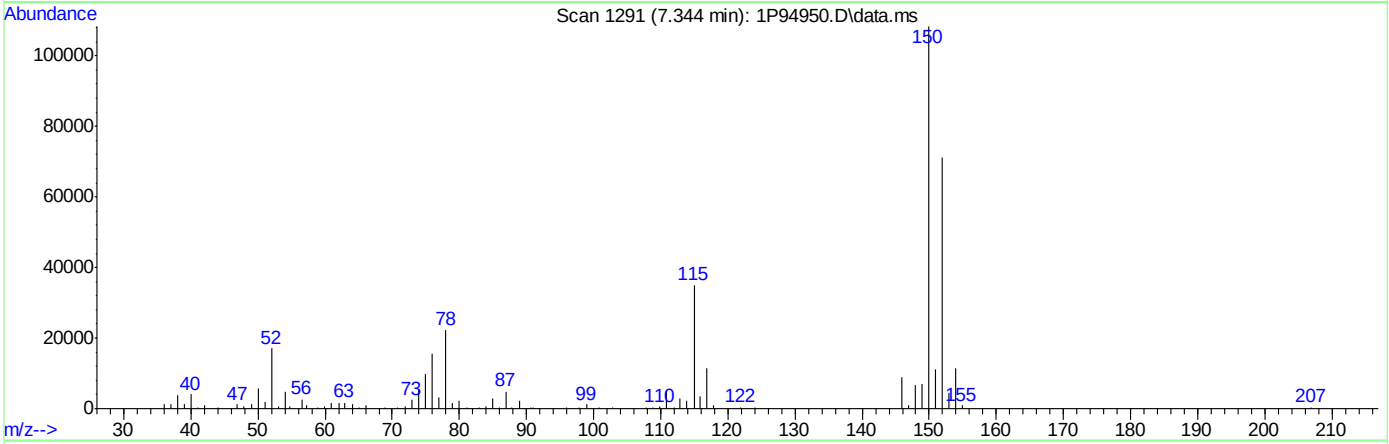
Ion	Exp%	Act%
145.90	100	100
111.00	40.70	42.71
147.90	64.30	65.61
75.00	34.80	38.46

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:45:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(105) 1,4-Dichlorobenzene

7.344min (-0.002) 1.22ug/L m

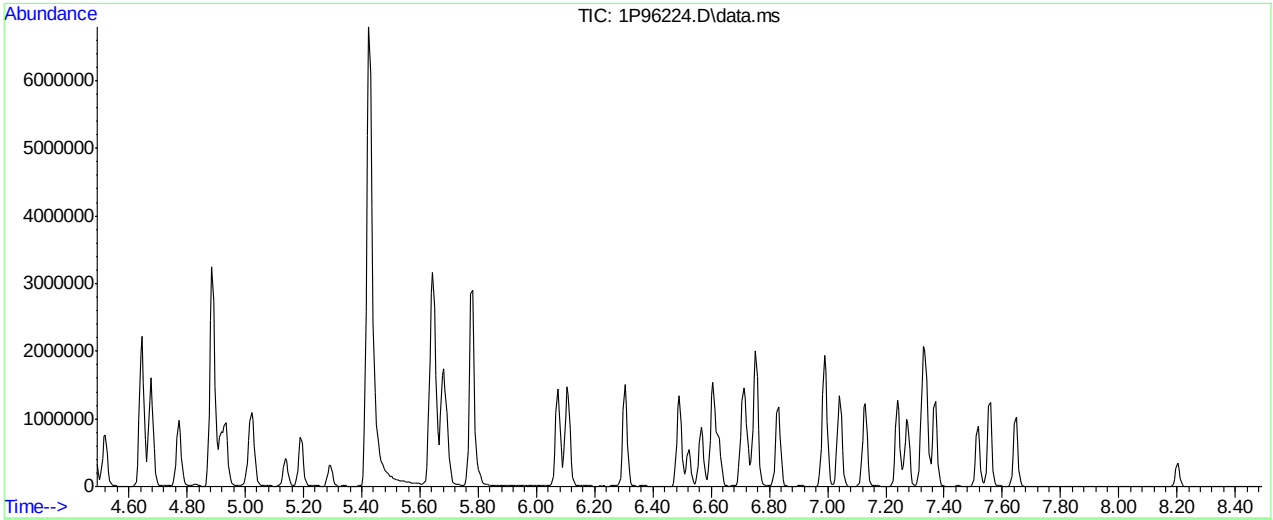
response 9702

Ion	Exp%	Act%
145.90	100	100
111.00	40.70	57.82
147.90	64.30	76.99
75.00	34.80	112.34#

Methods: SW-846 8260B

```
Data File : C:\msdchem\1\DATA\2022-12-12\1P96224.D       Vial: 2
Acq On    : 12 Dec 2022  10:02 am                    Operator: courtnef
Sample    : BFB                                      Inst    : MSVOA13
Misc      : MS52806,V1P3644,,,,,                     Multiplr: 1.00
MS Integration Params: big.p

Method    : C:\msdchem\1\MET...V1P_2022-11-04.M (RTE Integrator)
Title     : SW-846 Method 5035A/8260B
```



AutoFind: Scans 1127, 1128, 1129; Background Corrected with Scan 1120

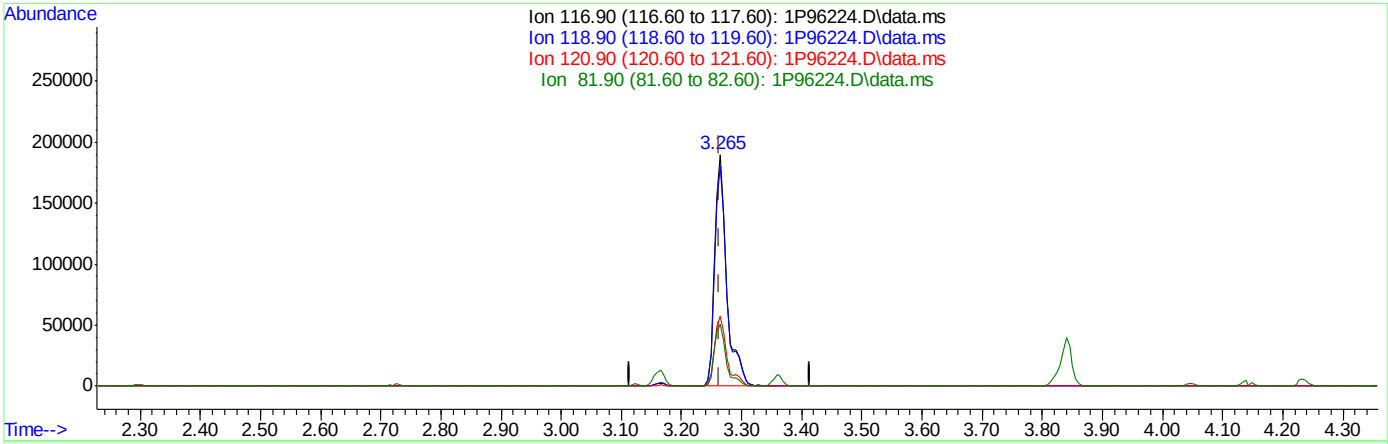
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	43397	PASS
75	95	30	60	50.9	125416	PASS
95	95	100	100	100.0	246250	PASS
96	95	5	9	6.6	16134	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	73.4	180650	PASS
175	174	5	9	7.8	14143	PASS
176	174	95	101	97.0	175317	PASS
177	176	5	9	6.4	11258	PASS

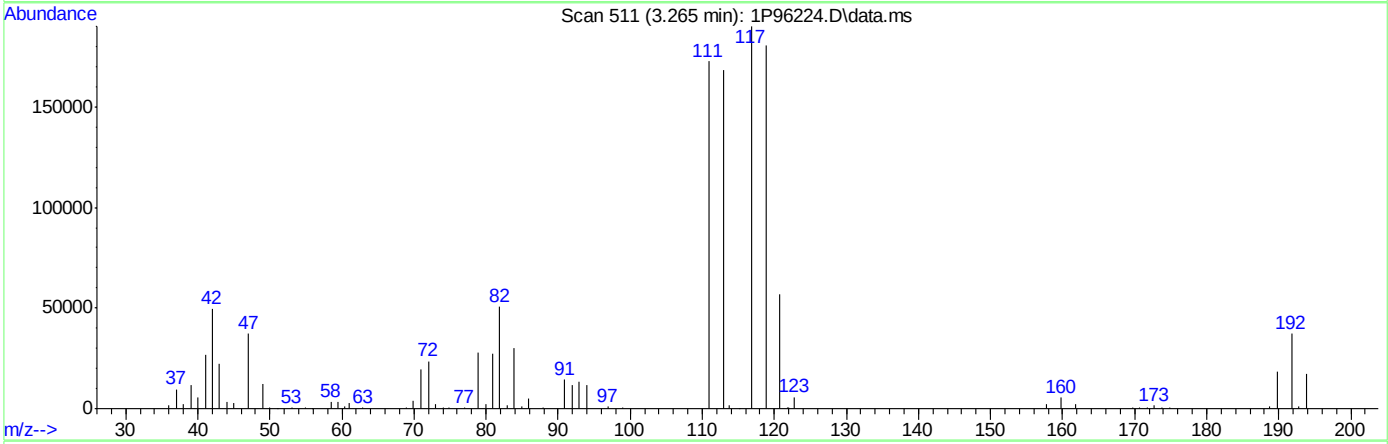
1P96224.D V1P_2022-11-04.M Mon Dec 12 10:41:07 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:15:10 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96224.D\data.ms

(40) Carbon Tetrachloride ( )

3.265min (+0.000) 60.73ug/L

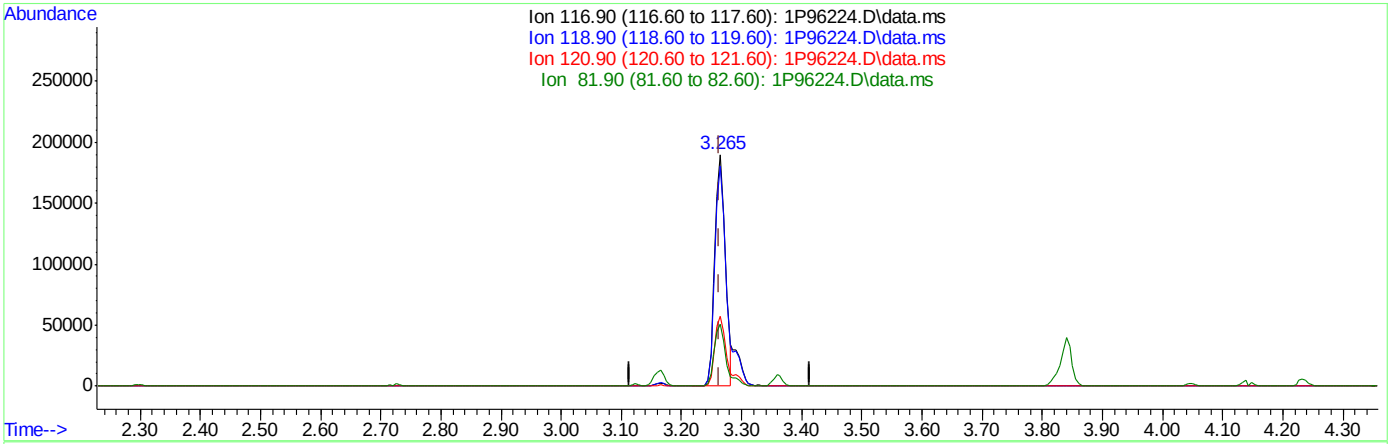
response 258133

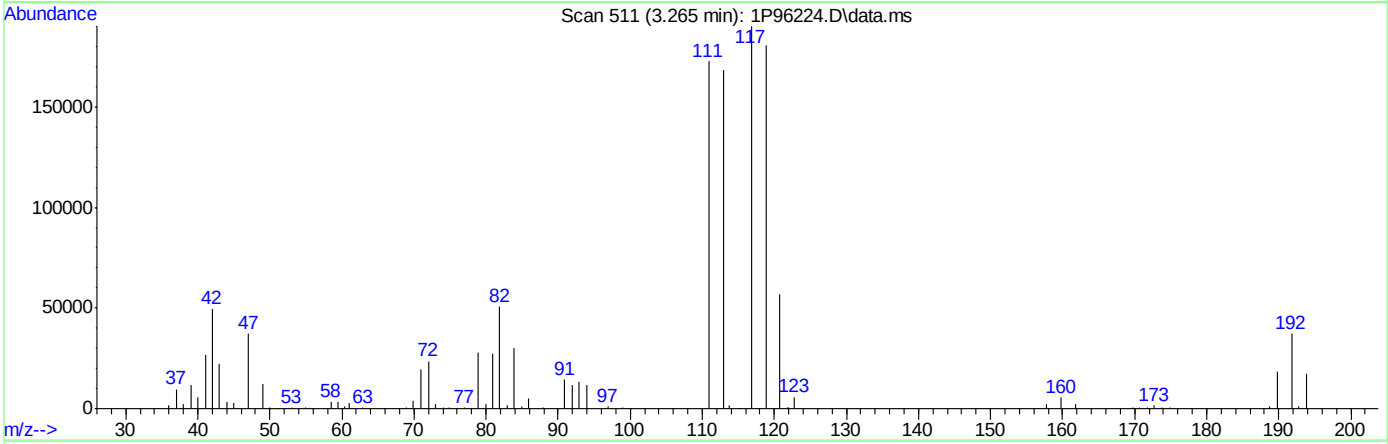
Ion	Exp%	Act%
116.90	100	100
118.90	97.80	95.08
120.90	31.00	30.00
81.90	30.20	26.67

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:15:10 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96224.D\data.ms

(40) Carbon Tetrachloride ( )

3.265min (+0.000) 52.64ug/L m

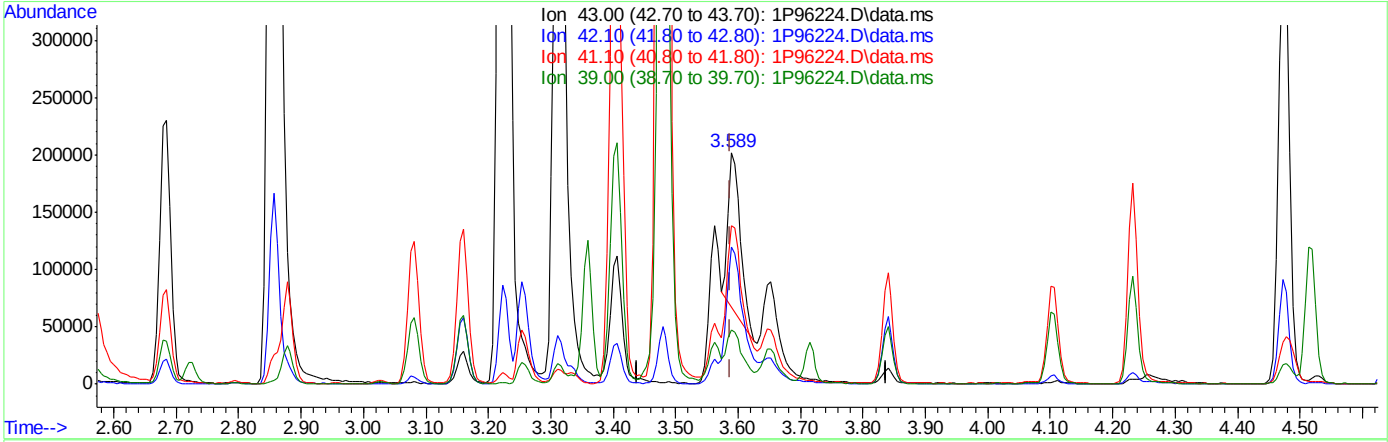
response 223745

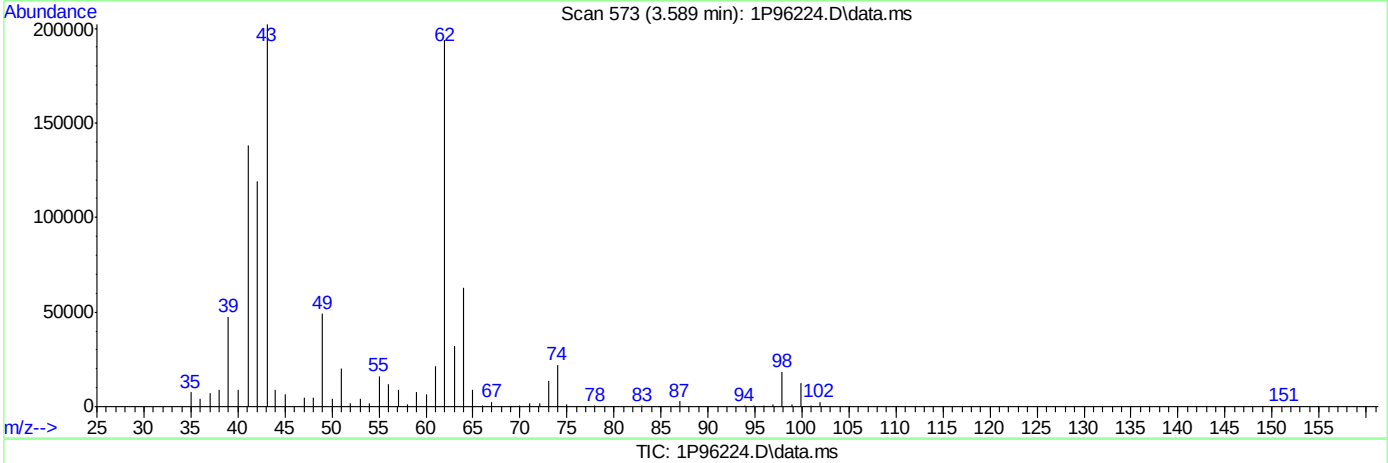
Ion	Exp%	Act%
116.90	100	100
118.90	97.80	95.08
120.90	31.00	30.00
81.90	30.20	26.67

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:15:10 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96224.D\data.ms

(50) Isobutyl alcohol

3.589min (+0.000) 255.93ug/L

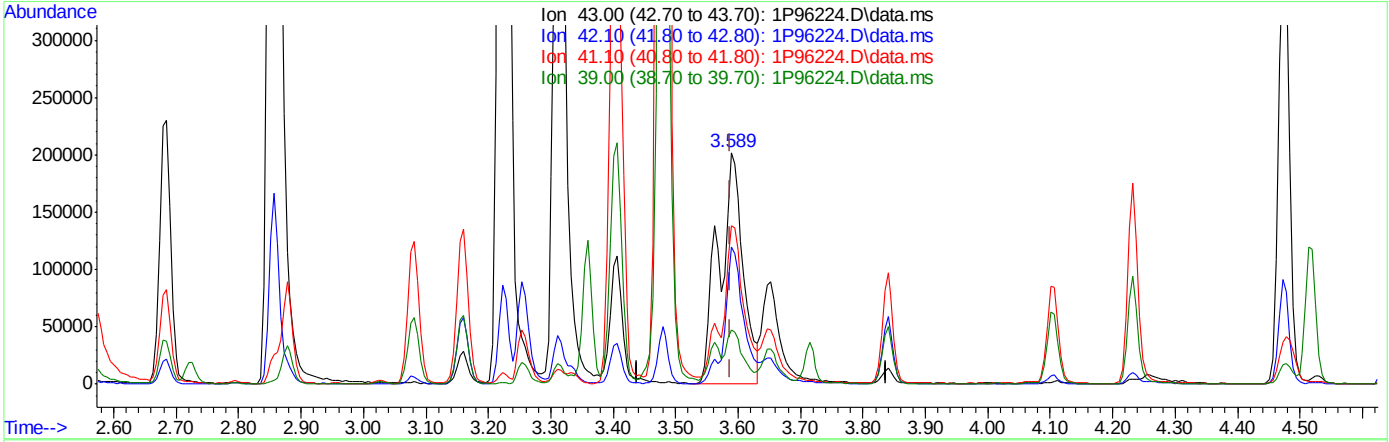
response 182245

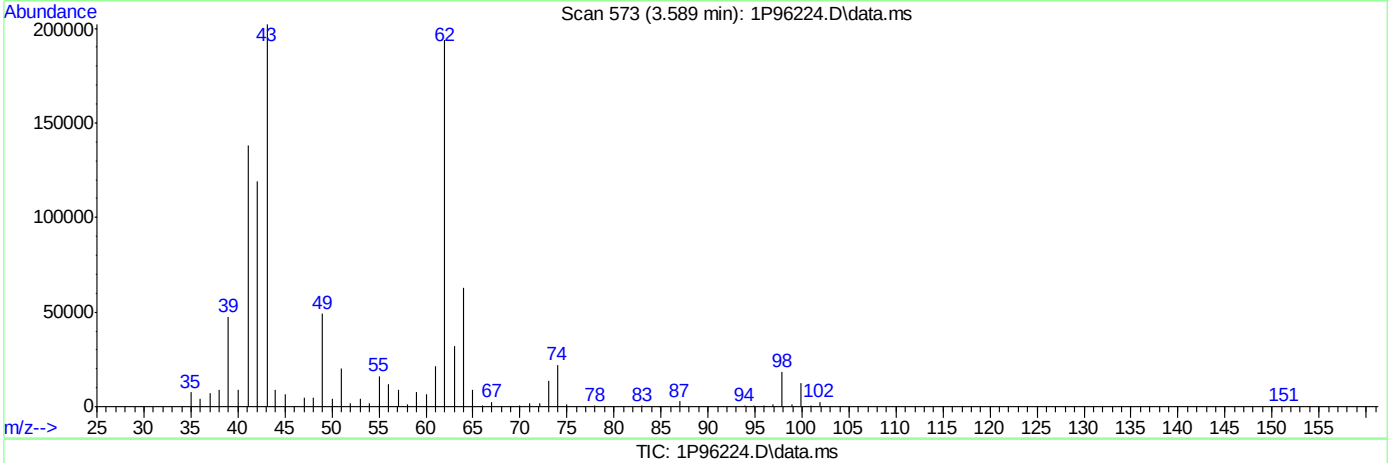
Ion	Exp%	Act%
43.00	100	100
42.10	59.60	59.66
41.10	71.40	64.94
39.00	26.20	22.48

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:15:10 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96224.D\data.ms

(50) Isobutyl alcohol

3.589min (+0.000) 760.39ug/L m

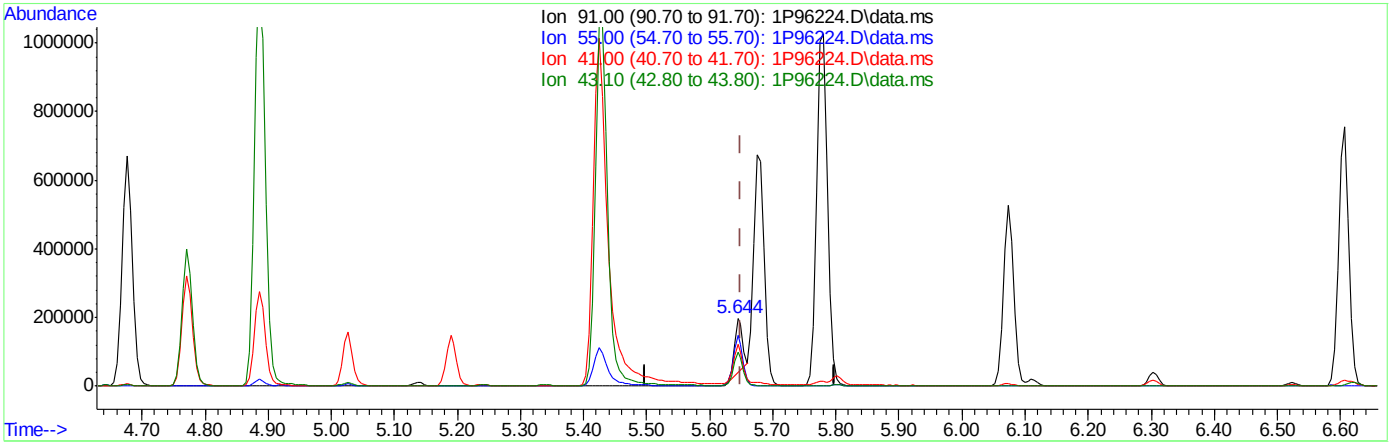
response 541477

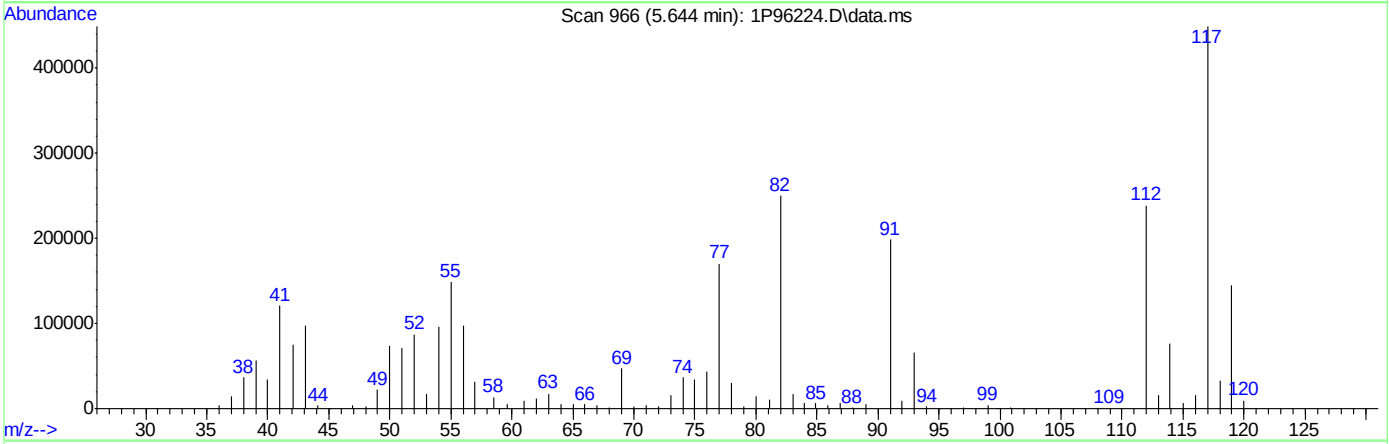
Ion	Exp%	Act%
43.00	100	100
42.10	59.60	59.00
41.10	71.40	68.24
39.00	26.20	23.42

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:15:10 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96224.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.005) 29.22ug/L

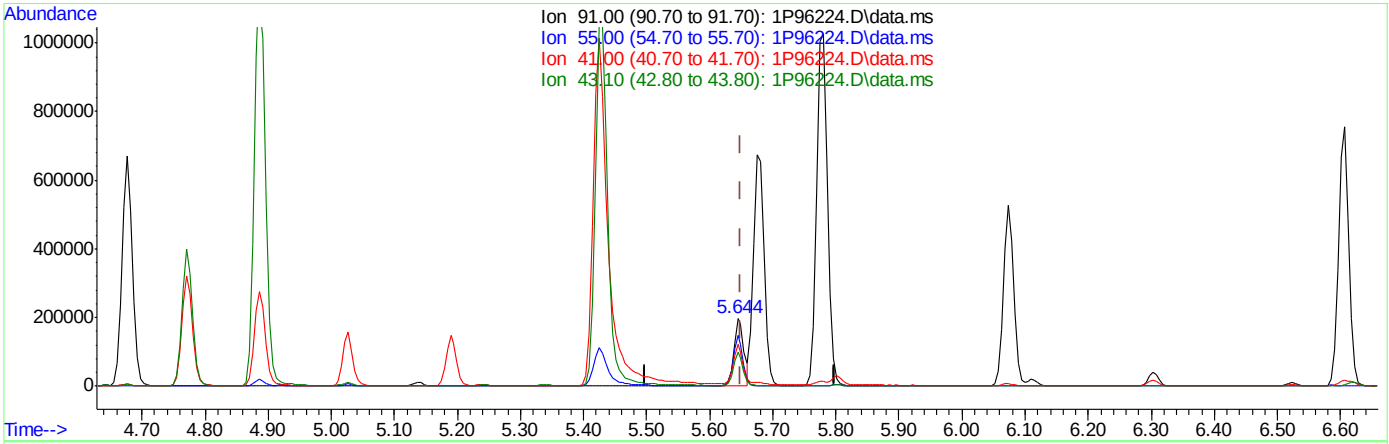
response 154870

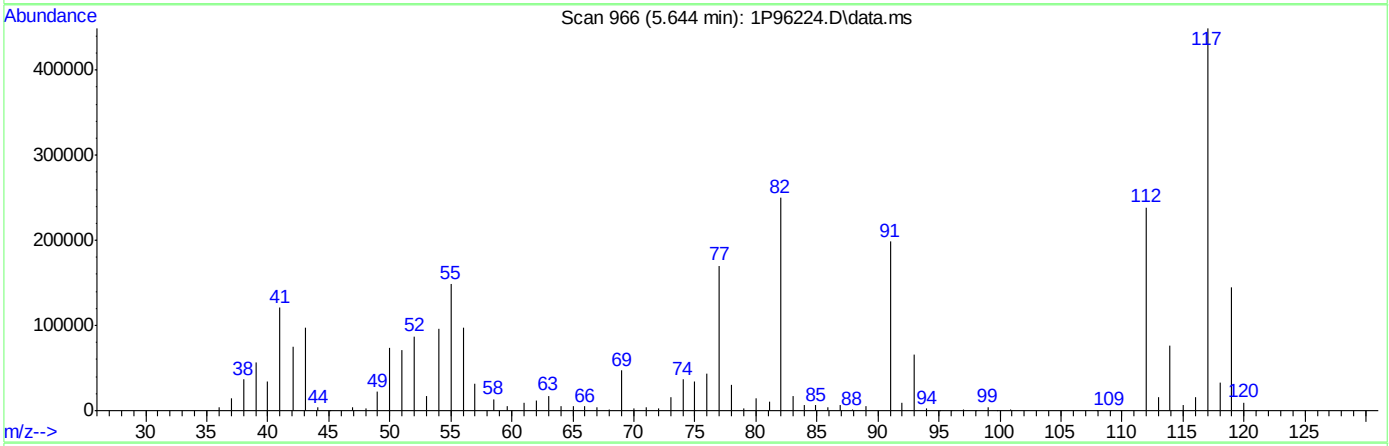
Ion	Exp%	Act%
91.00	100	100
55.00	73.20	72.14
41.00	62.10	56.25
43.10	50.00	47.26

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:15:10 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96224.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.005) 42.77ug/L m

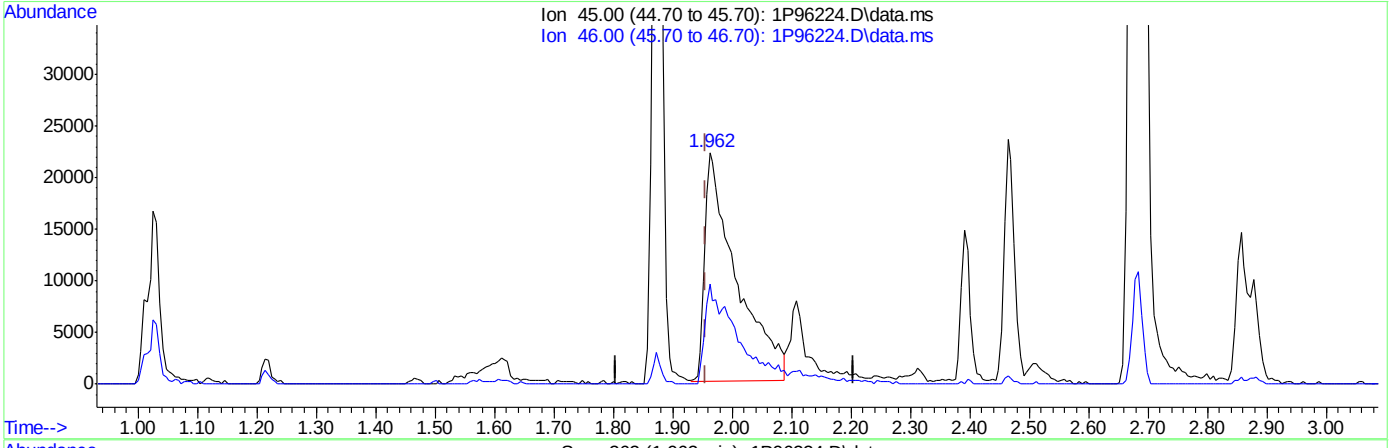
response 227073

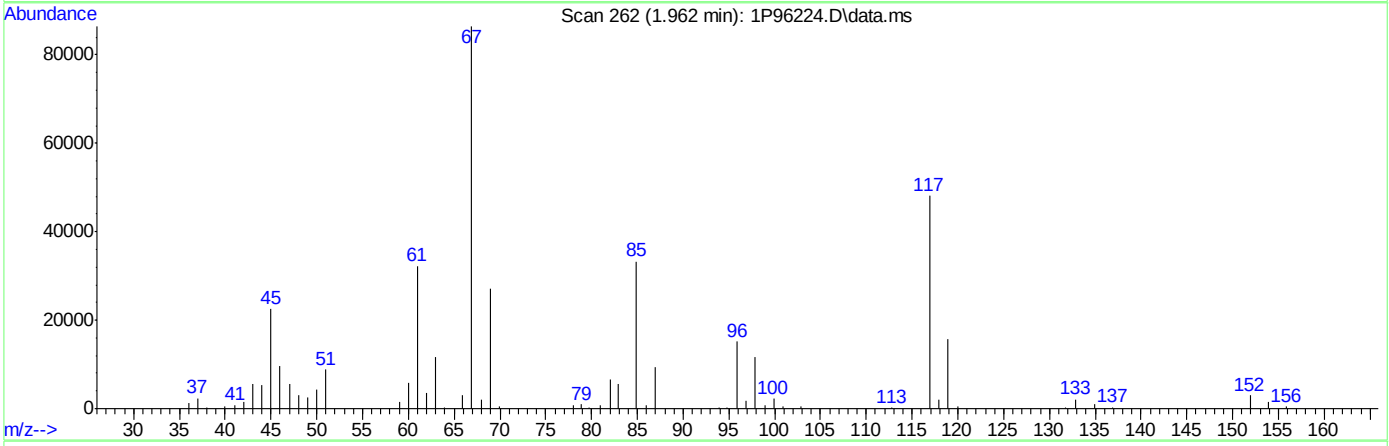
Ion	Exp%	Act%
91.00	100	100
55.00	73.20	74.89
41.00	62.10	60.69
43.10	50.00	49.40

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:15:51 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96224.D\data.ms

(10) Ethanol

1.962min (+0.006) 638.06ug/L

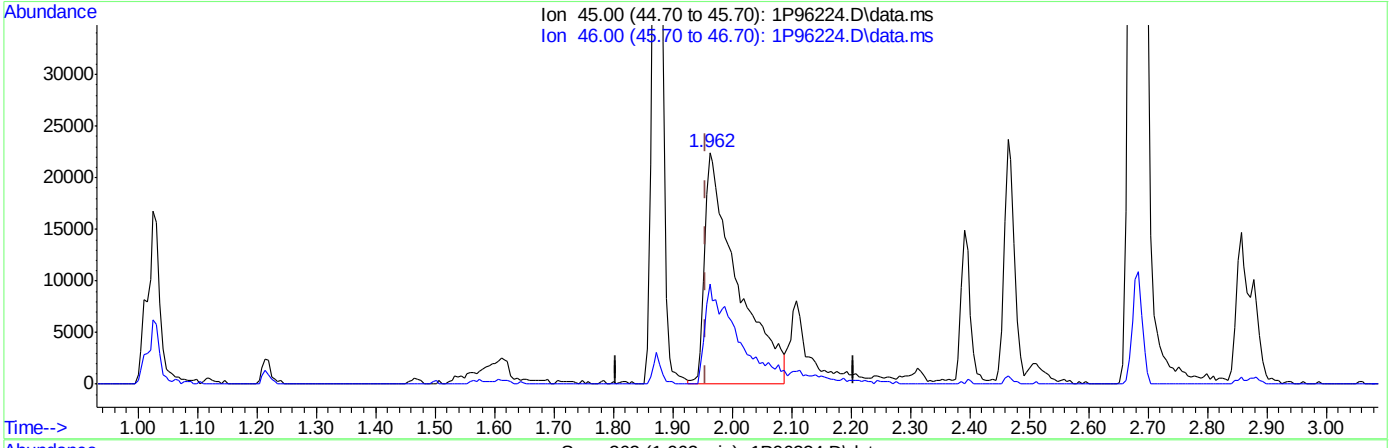
response 82118

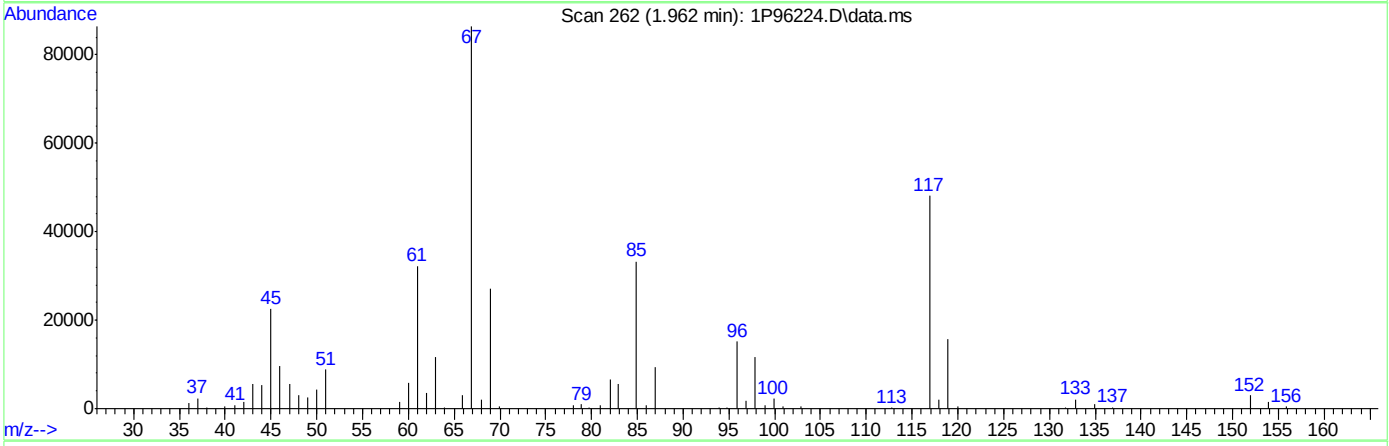
Ion	Exp%	Act%
45.00	100	100
46.00	44.30	44.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:15:51 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96224.D\data.ms

(10) Ethanol

1.962min (+0.006) 666.84ug/L m

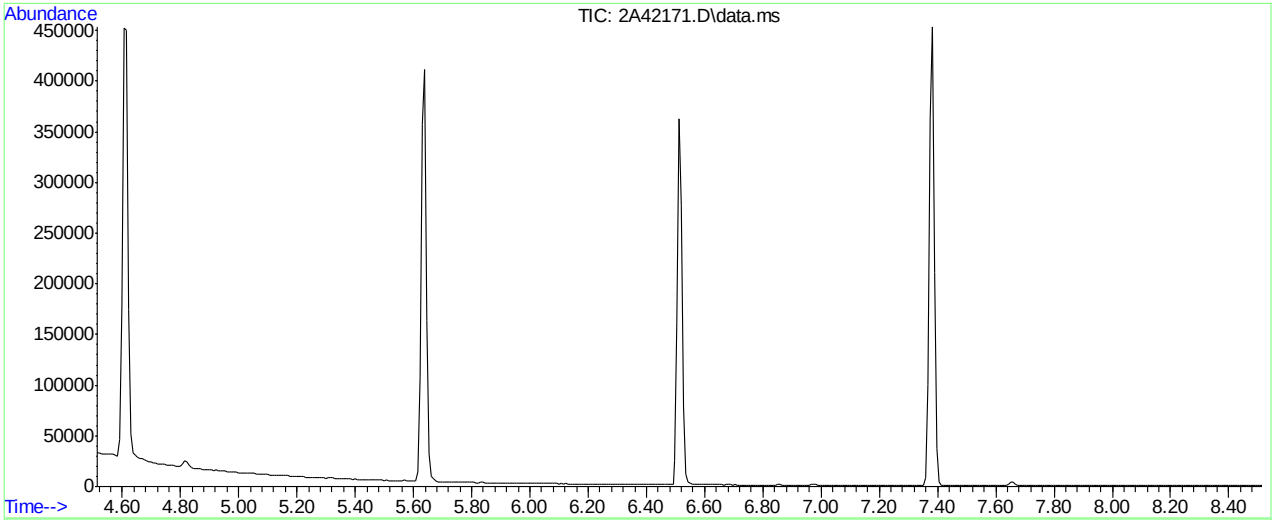
response 85137

Ion	Exp%	Act%
45.00	100	100
46.00	44.30	43.35
0.00	0.00	0.00
0.00	0.00	0.00

Methods: SW-846 8260B

Data File : C:\msdchem\1\DATA\12-16-2022\2A42171.D Vial: 51
Acq On : 16 Dec 2022 8:55 am Operator: joannel
Sample : BFB Inst : MSVOA17
Misc : MS53004,V2A1677,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V2A_12-16-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B



AutoFind: Scans 834, 835, 836; Background Corrected with Scan 829

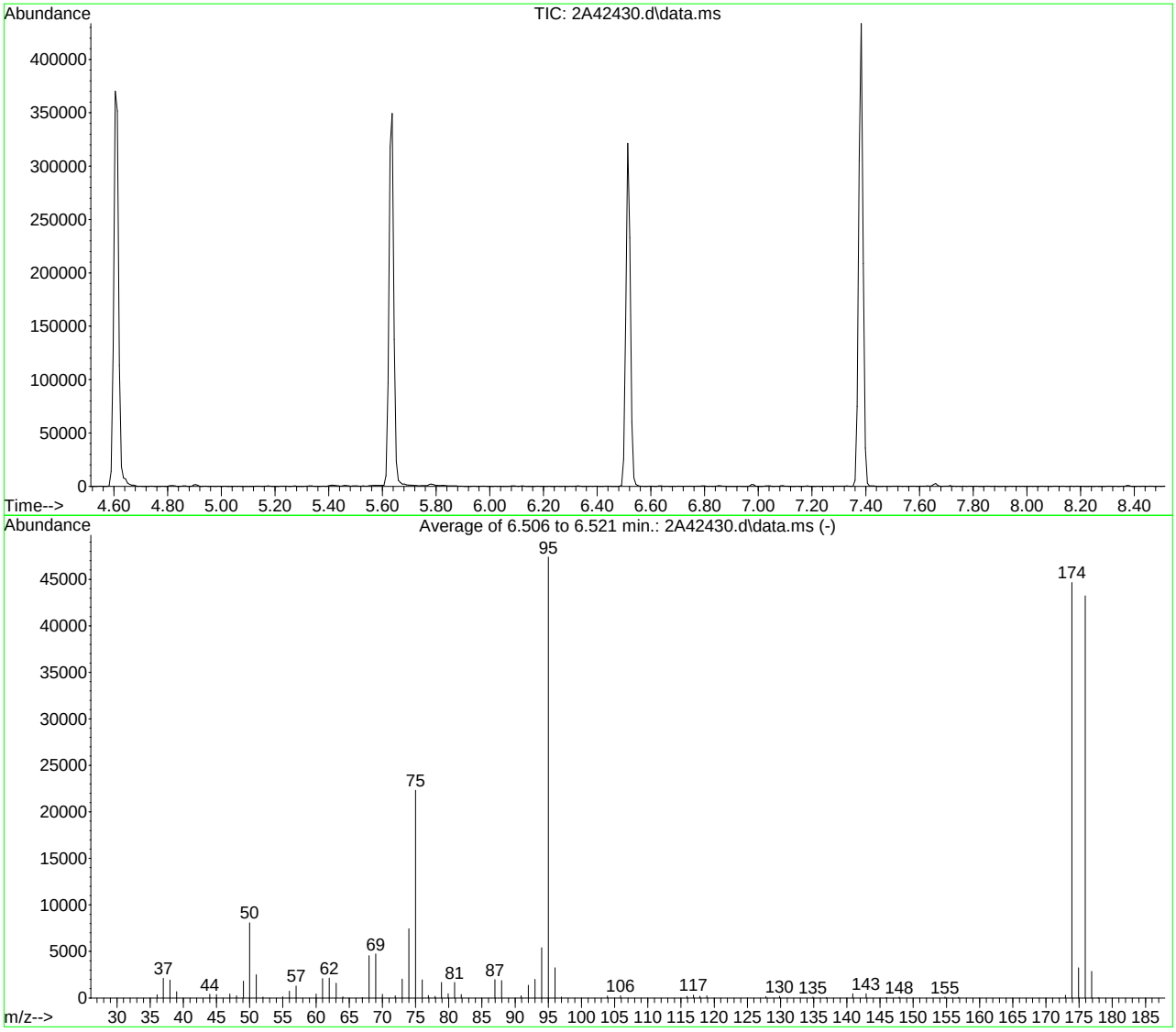
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.8	9531	PASS
75	95	30	60	48.7	26064	PASS
95	95	100	100	100.0	53549	PASS
96	95	5	9	6.5	3467	PASS
173	174	0.00	2	0.7	335	PASS
174	95	50	100	89.4	47877	PASS
175	174	5	9	7.2	3469	PASS
176	174	95	101	98.2	47005	PASS
177	176	5	9	6.4	3012	PASS

2A42171.D V2A_12-16-2022.M Mon Dec 19 09:15:47 2022

Methods: SW-846 8260B

```
Data File : C:\msdchem\1\data\ce...022\V2A1682\2A42430.d Vial: 51
Acq On    : 27 Dec 2022  12:11 pm                    Operator: joannel
Sample    : BFB                                      Inst    : MSVOA17
Misc      : MS53055,V2A1682,,,,,                     Multiplr: 1.00
MS Integration Params: big.p

Method    : C:\msdchem\1\met...V2A_12-16-2022.M (RTE Integrator)
Title     : SW-846 Method 5035A/8260B
```



AutoFind: Scans 834, 835, 836; Background Corrected with Scan 829

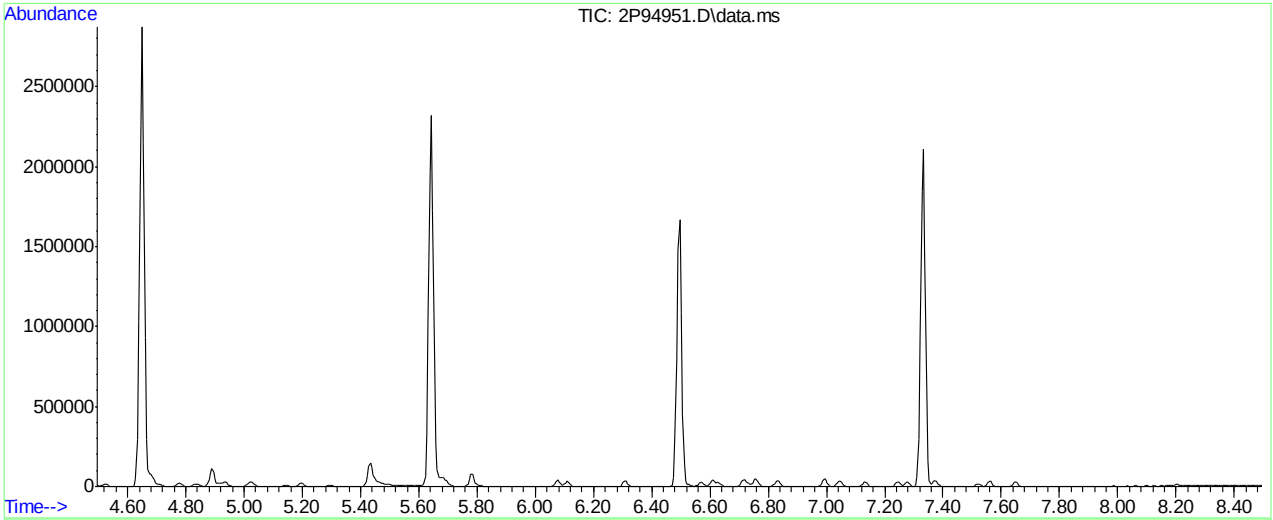
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.1	8090	PASS
75	95	30	60	47.1	22323	PASS
95	95	100	100	100.0	47384	PASS
96	95	5	9	6.8	3232	PASS
173	174	0.00	2	0.7	304	PASS
174	95	50	100	94.3	44672	PASS
175	174	5	9	7.3	3250	PASS
176	174	95	101	96.7	43216	PASS
177	176	5	9	6.6	2860	PASS

2A42430.d V2A_12-16-2022.M Tue Dec 27 22:54:32 2022

Methods: SW-846 8260B

Data File : C:\msdchem\1\DATA\2022-11-04\2P94951.D Vial: 52
Acq On : 4 Nov 2022 10:40 am Operator: courtnef
Sample : BFB Inst : MSVOA13
Misc : MS52512,V2P3622,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V2P_2022-11-04.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B



AutoFind: Scans 1128, 1129, 1130; Background Corrected with Scan 1121

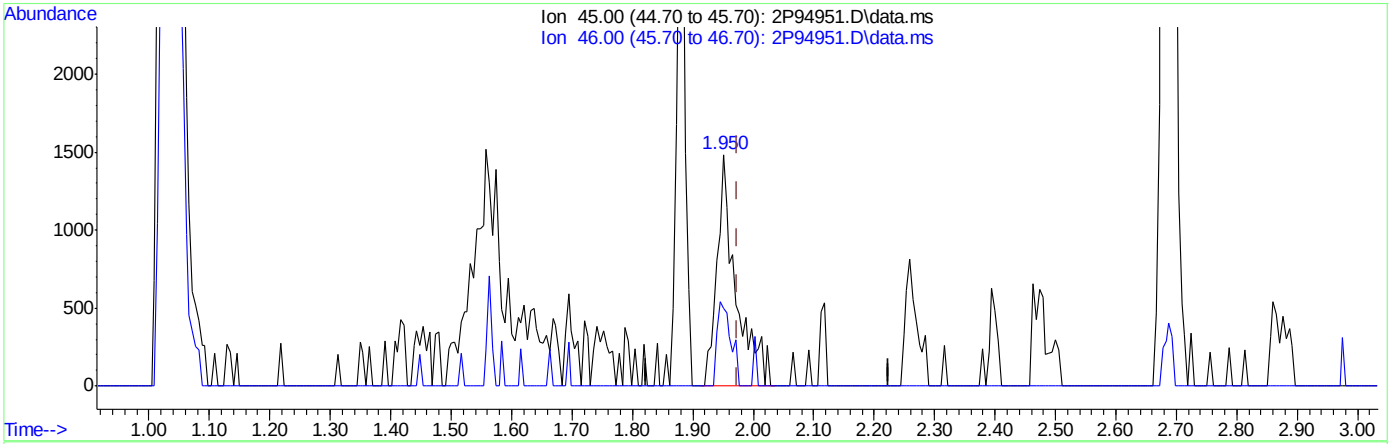
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.2	62589	PASS
75	95	30	60	52.2	161461	PASS
95	95	100	100	100.0	309482	PASS
96	95	5	9	6.5	20030	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.7	200341	PASS
175	174	5	9	7.0	14034	PASS
176	174	95	101	97.6	195562	PASS
177	176	5	9	6.4	12509	PASS

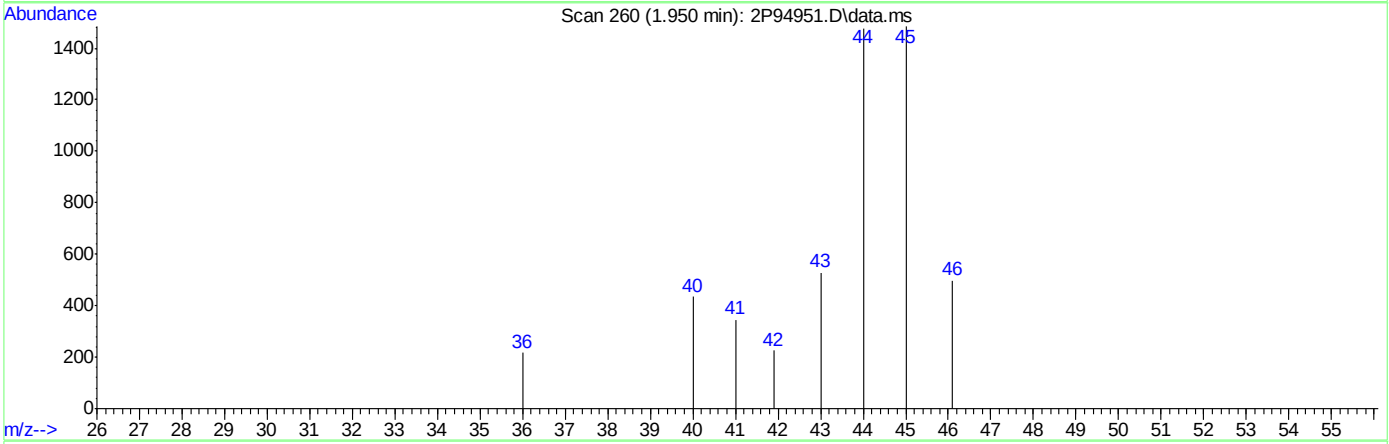
2P94951.D V2P_2022-11-04.M Fri Nov 04 11:14:07 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(10) Ethanol

1.950min (-0.024) 22.80ug/L

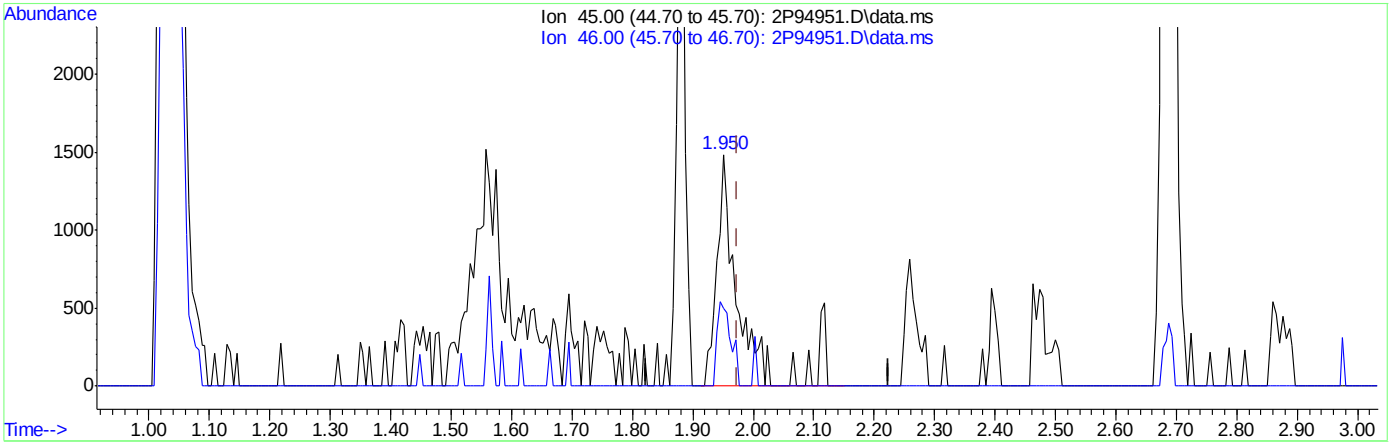
response 3246

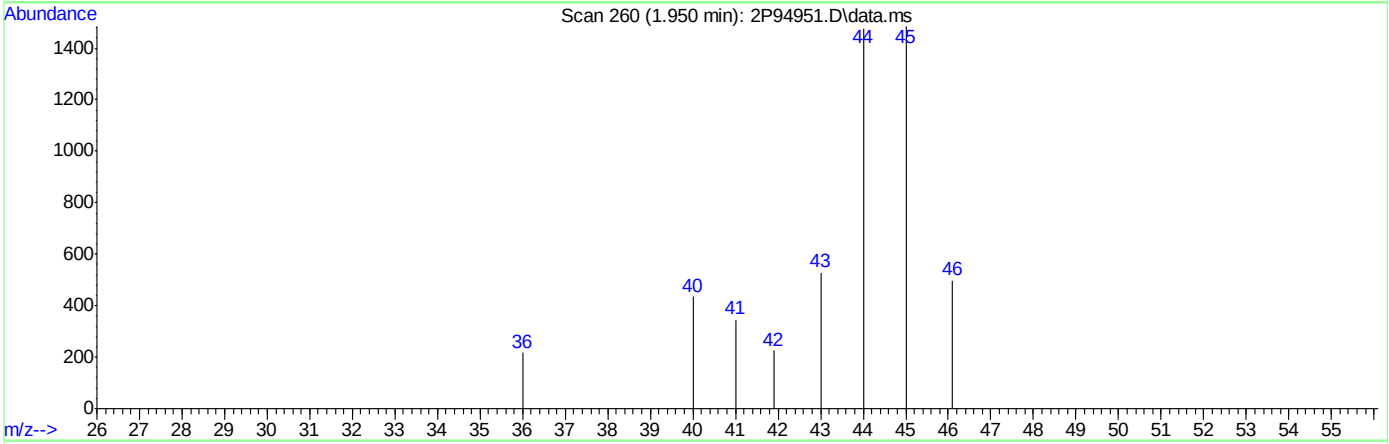
Ion	Exp%	Act%
45.00	100	100
46.00	42.50	33.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(10) Ethanol

1.950min (-0.024) 26.02ug/L m

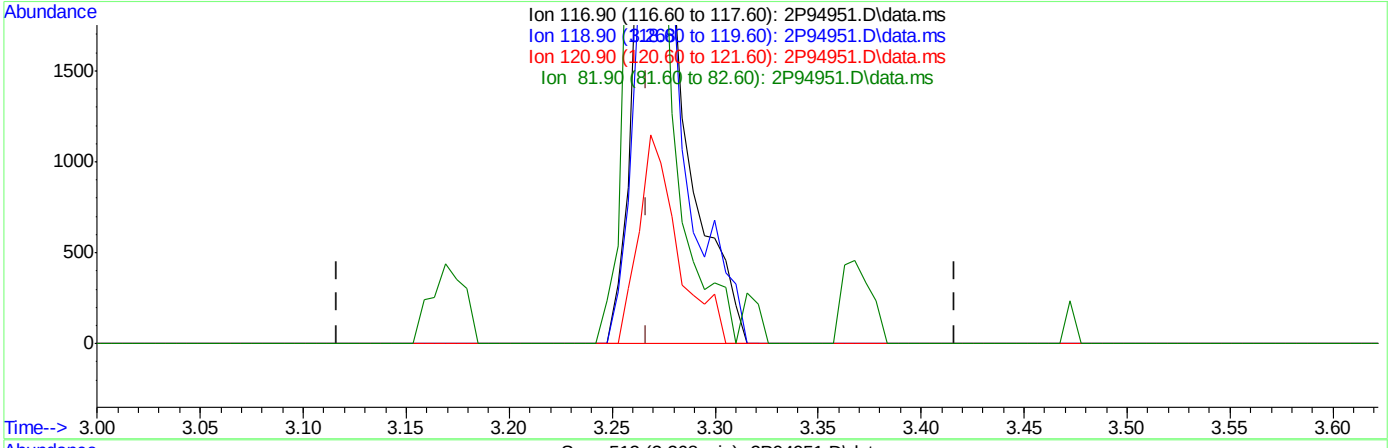
response 3703

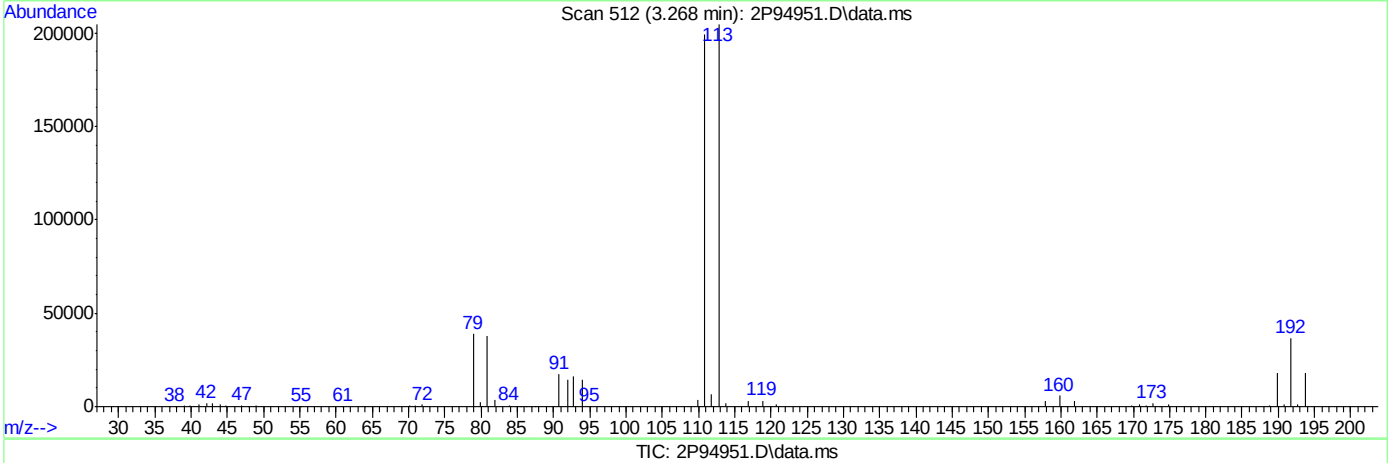
Ion	Exp%	Act%
45.00	100	100
46.00	42.50	33.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(40) Carbon Tetrachloride ( )

3.268min (+0.002) 0.85ug/L

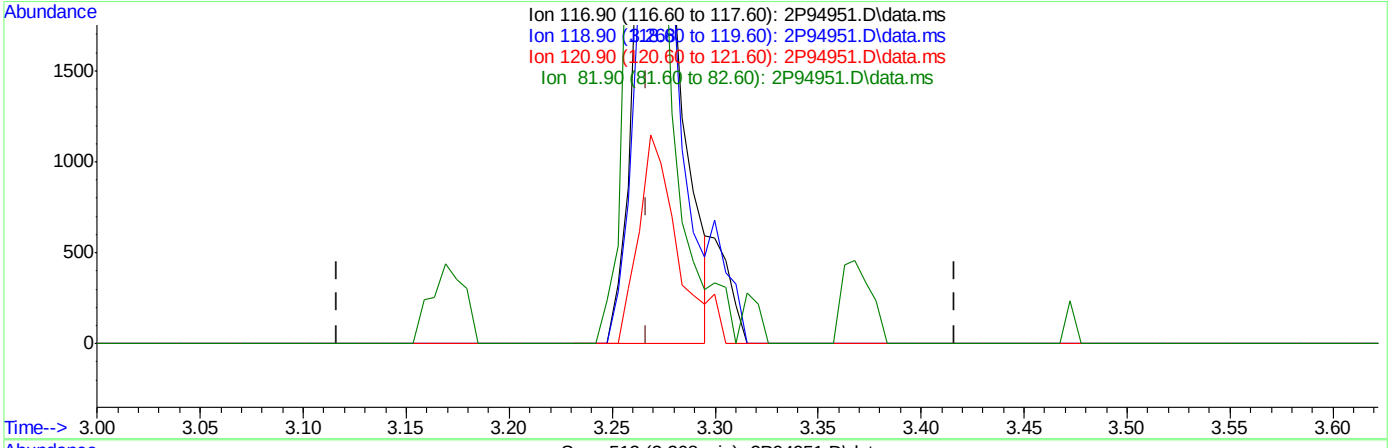
response 4794

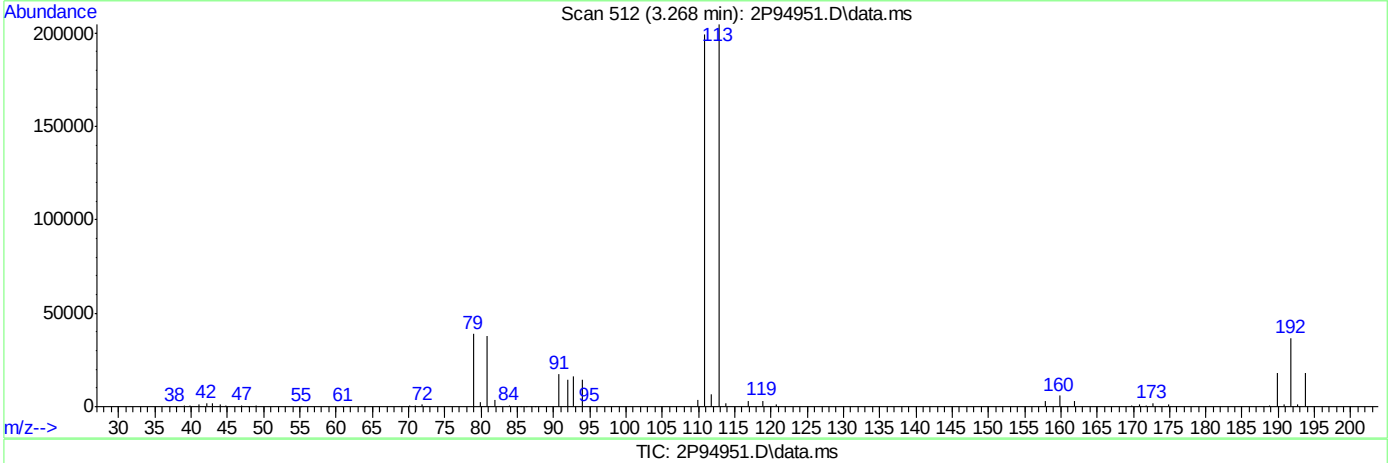
Ion	Exp%	Act%
116.90	100	100
118.90	95.80	110.95
120.90	29.50	38.90
81.90	30.20	117.34#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(40) Carbon Tetrachloride ( )

3.268min (+0.002) 0.78ug/L m

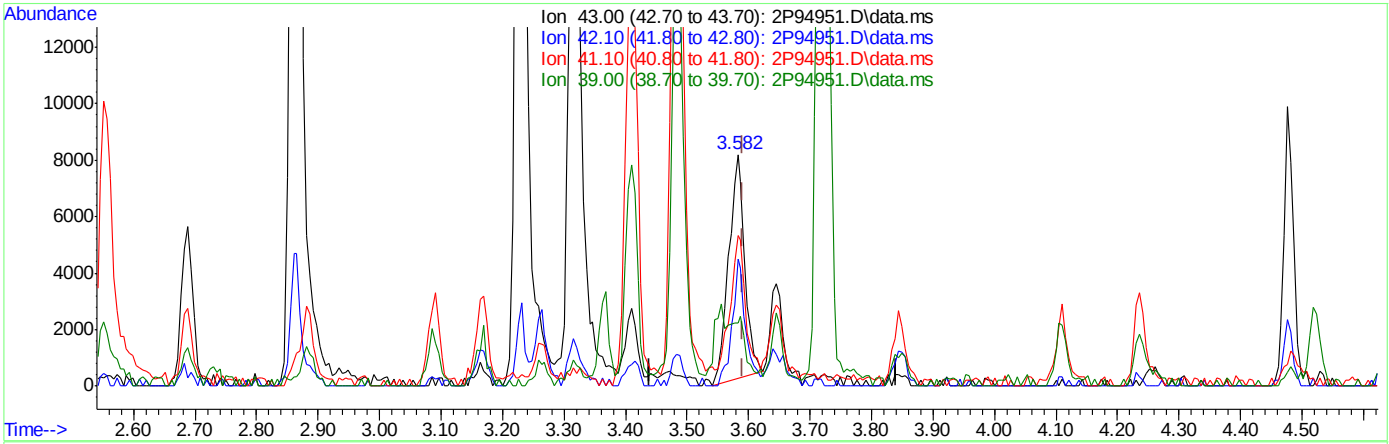
response 4402

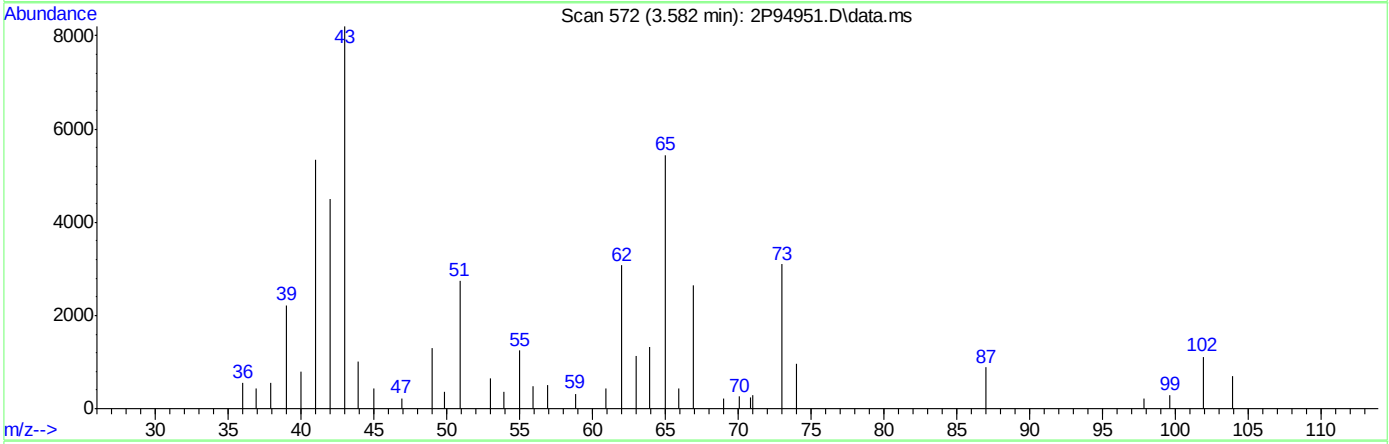
Ion	Exp%	Act%
116.90	100	100
118.90	95.80	110.95
120.90	29.50	38.90
81.90	30.20	117.34#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(50) Isobutyl alcohol

3.582min (-0.009) 19.51ug/L

response 14526

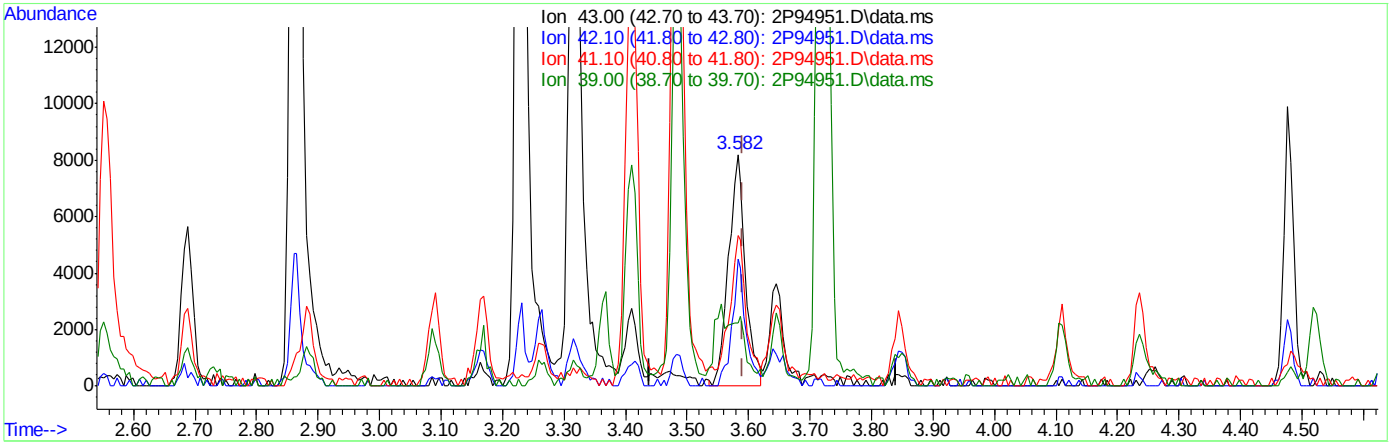
Ion	Exp%	Act%
43.00	100	100
42.10	61.30	54.88
41.10	73.00	56.69
39.00	27.40	23.11

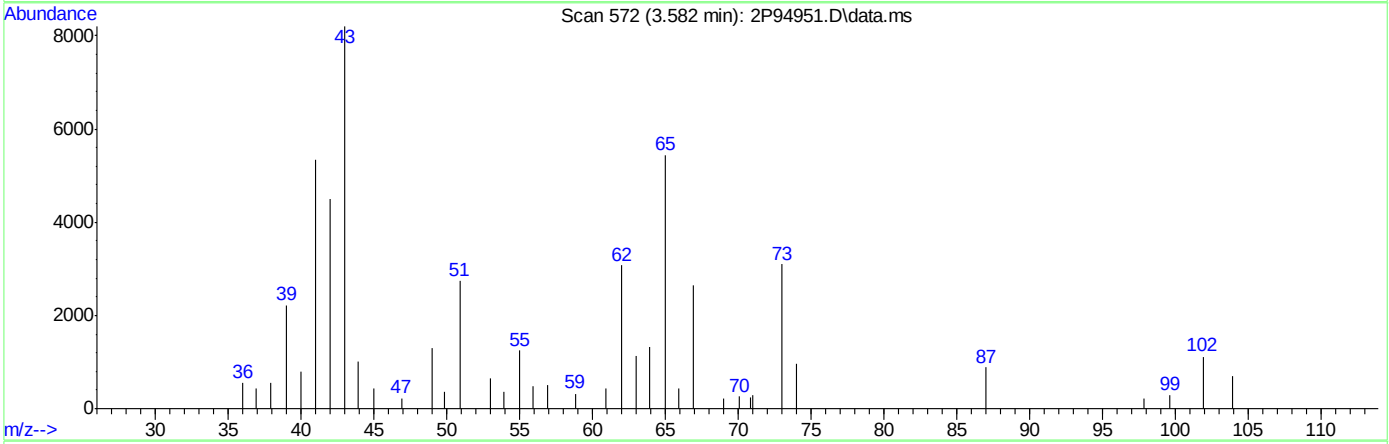
2P94951.D edits: Isobutyl alcohol

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(50) Isobutyl alcohol

3.582min (-0.009) 21.12ug/L m

response 15718

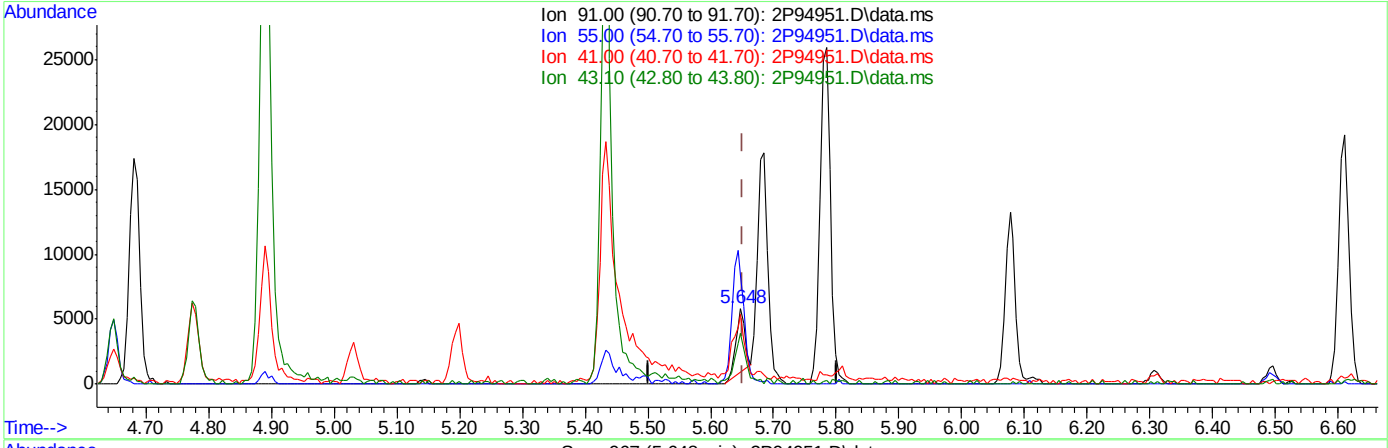
Ion	Exp%	Act%
43.00	100	100
42.10	61.30	54.88
41.10	73.00	65.16
39.00	27.40	27.05

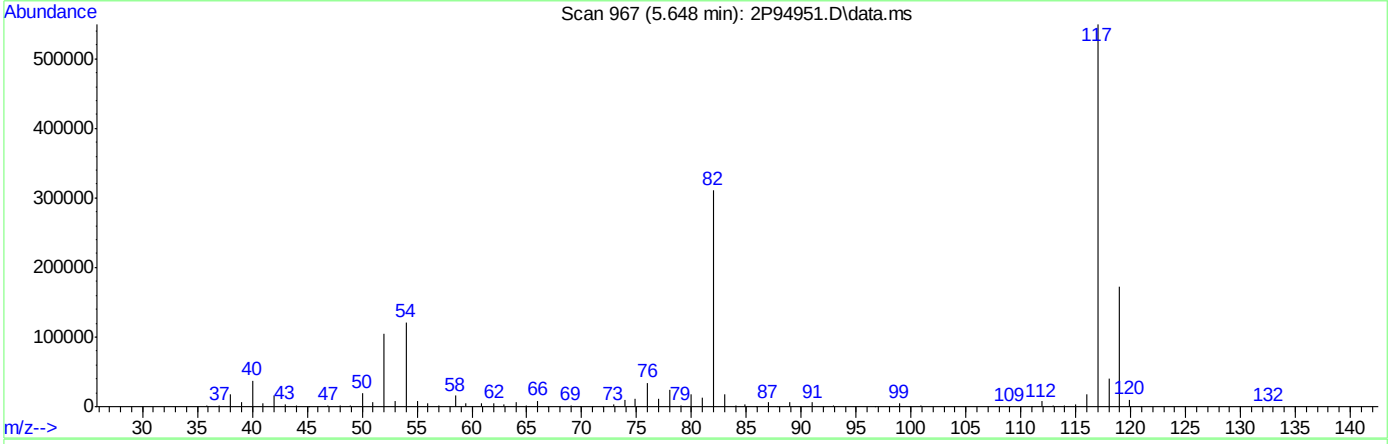
2P94951.D edits: Isobutyl alcohol

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(76) 1-Chlorohexane

5.648min (-0.003) 0.82ug/L

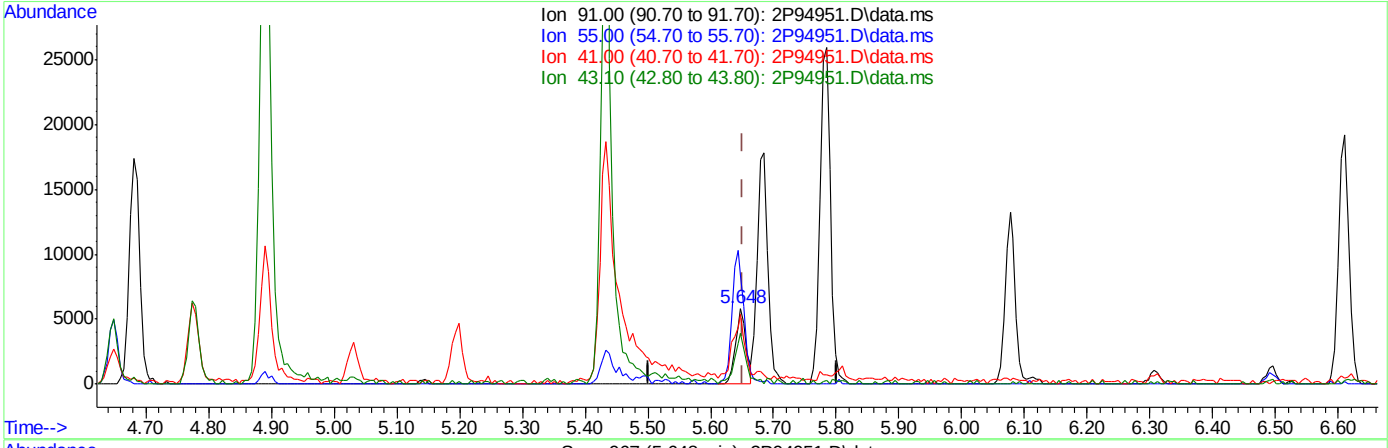
response 5253

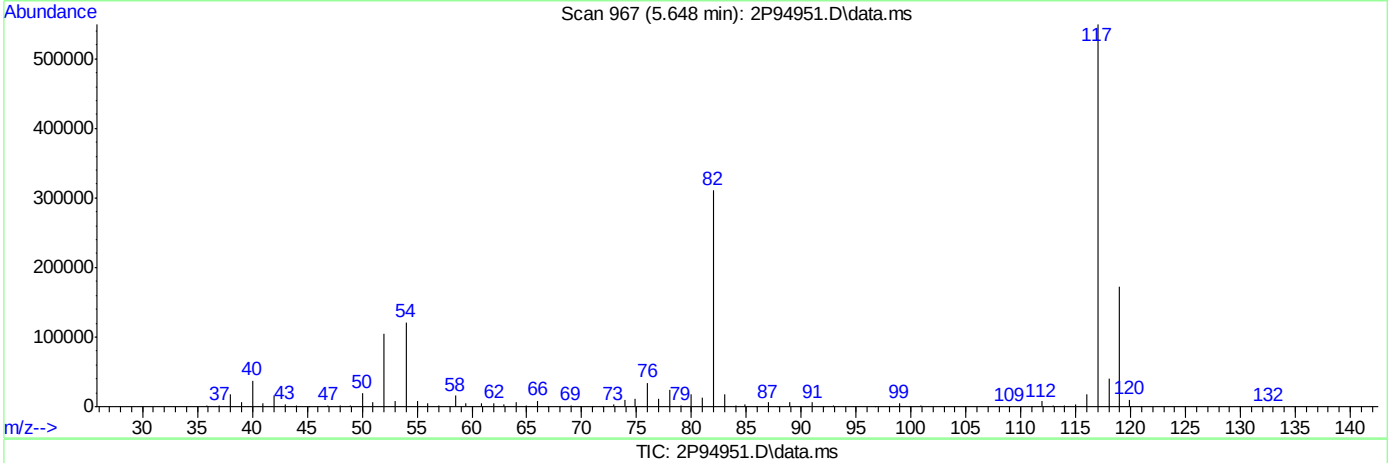
Ion	Exp%	Act%
91.00	100	100
55.00	65.20	135.59#
41.00	51.70	79.36#
43.10	43.60	62.82

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(76) 1-Chlorohexane

5.648min (-0.003) 1.13ug/L m

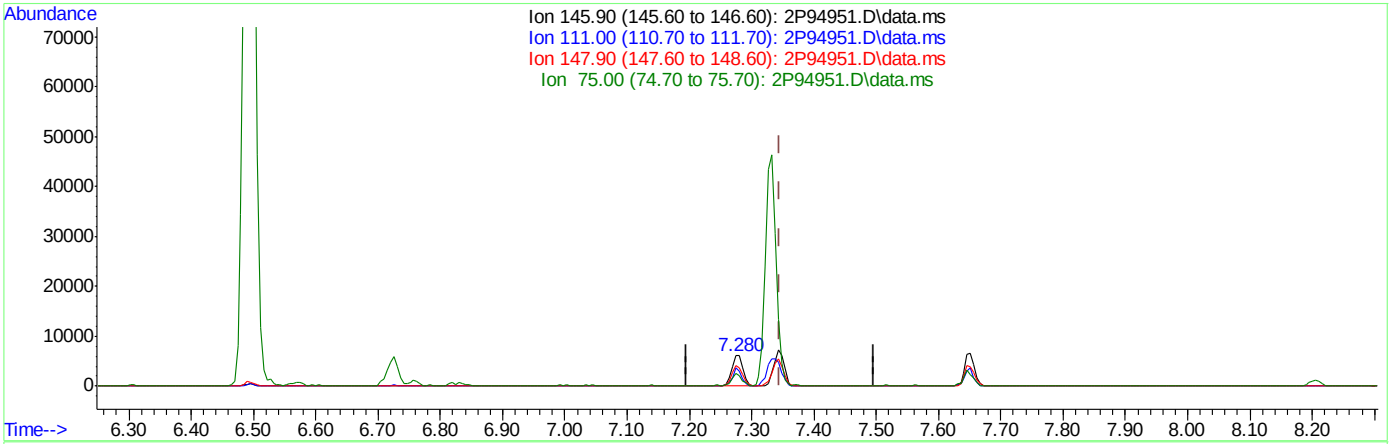
response 7183

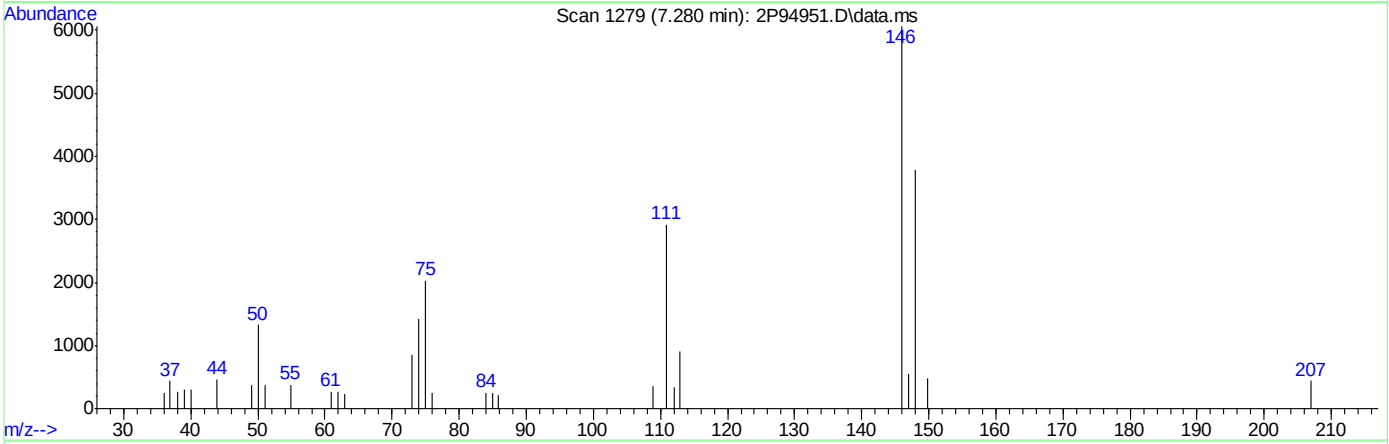
Ion	Exp%	Act%
91.00	100	100
55.00	65.20	143.01#
41.00	51.70	92.54#
43.10	43.60	67.29#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(105) 1,4-Dichlorobenzene

7.280min (-0.066) 0.89ug/L

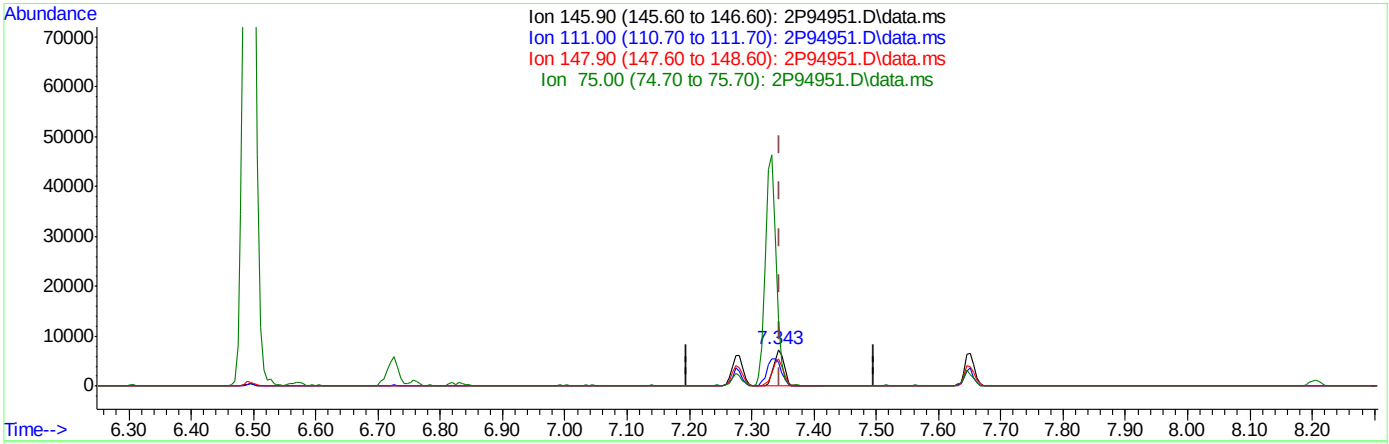
response 7432

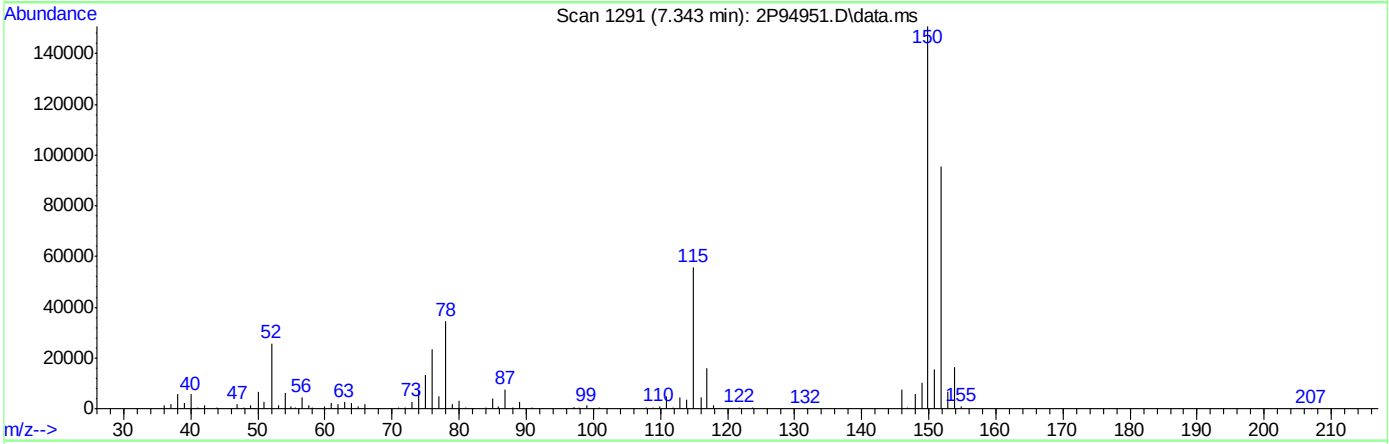
Ion	Exp%	Act%
145.90	100	100
111.00	38.90	48.14
147.90	63.50	62.48
75.00	33.30	33.54

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(105) 1,4-Dichlorobenzene

7.343min (-0.003) 0.98ug/L m

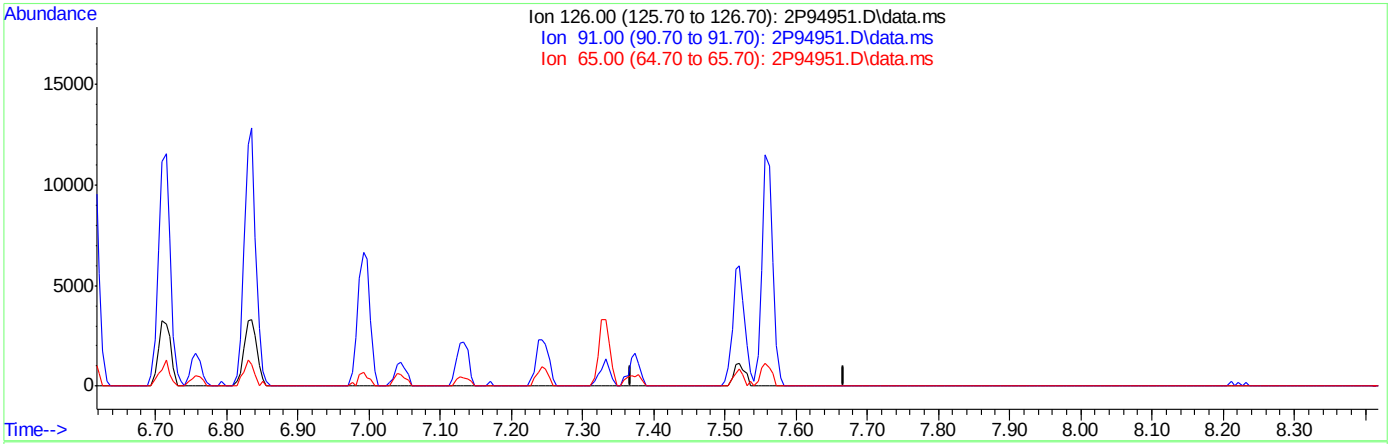
response 8153

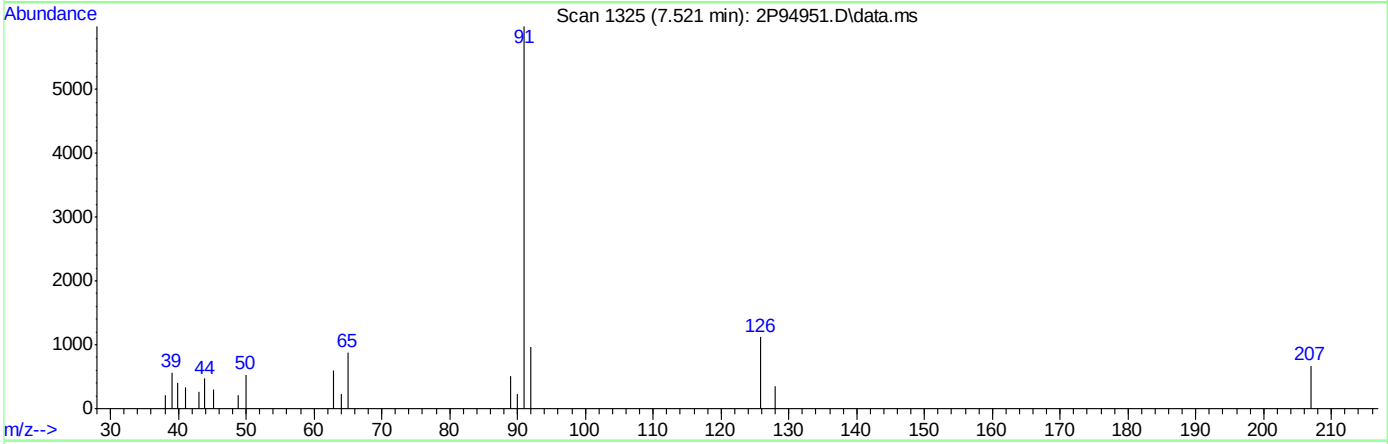
Ion	Exp%	Act%
145.90	100	100
111.00	38.90	64.61
147.90	63.50	76.06
75.00	33.30	183.64#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(107) Benzyl Chloride

7.518min (-7.518) 0.00ug/L

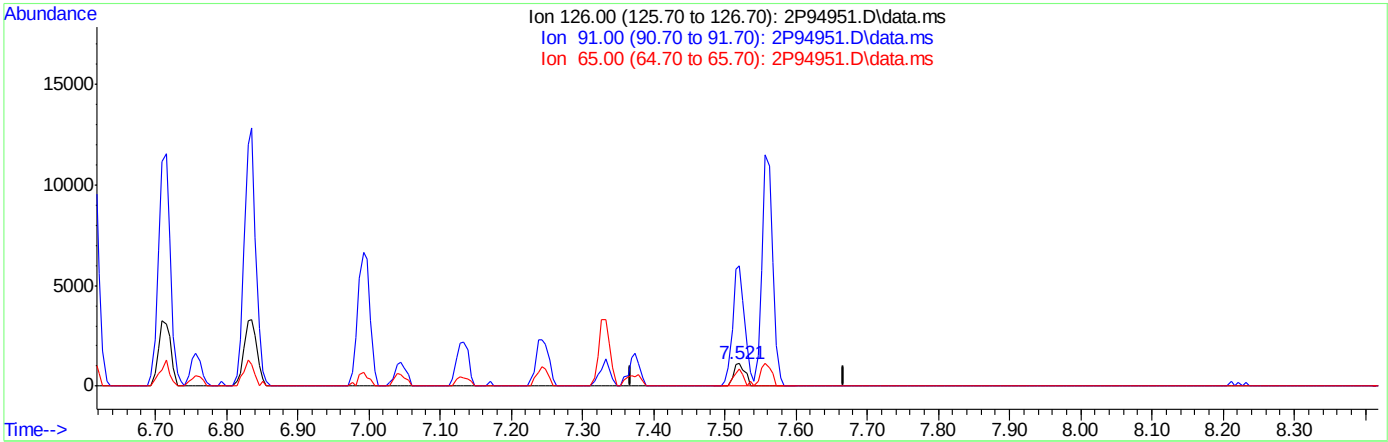
response 0

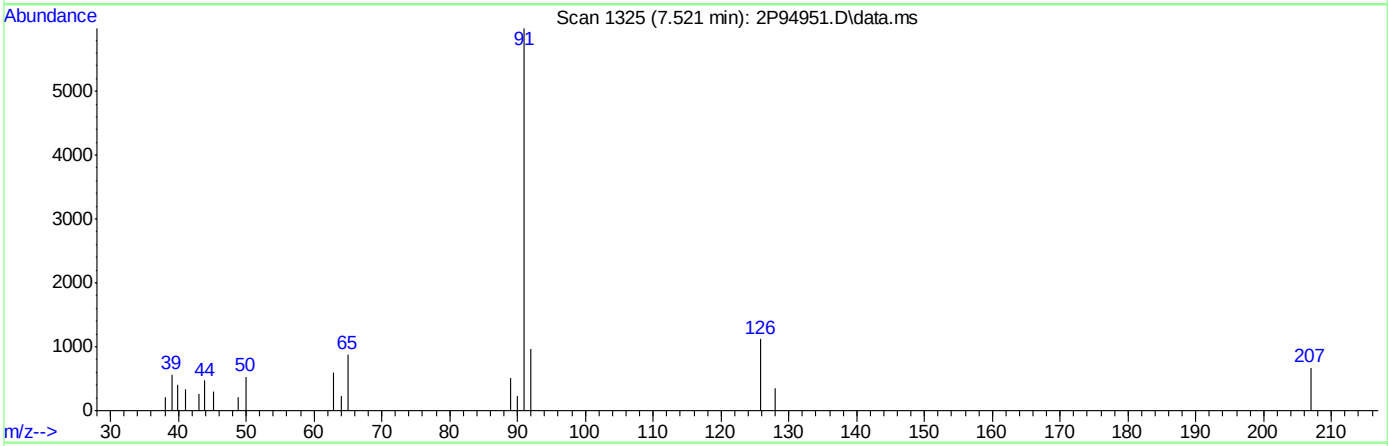
Ion	Exp%	Act%
126.00	100	0.00
91.00	515.60	0.00#
65.00	64.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(107) Benzyl Chloride

7.521min (+0.003) 0.75ug/L m

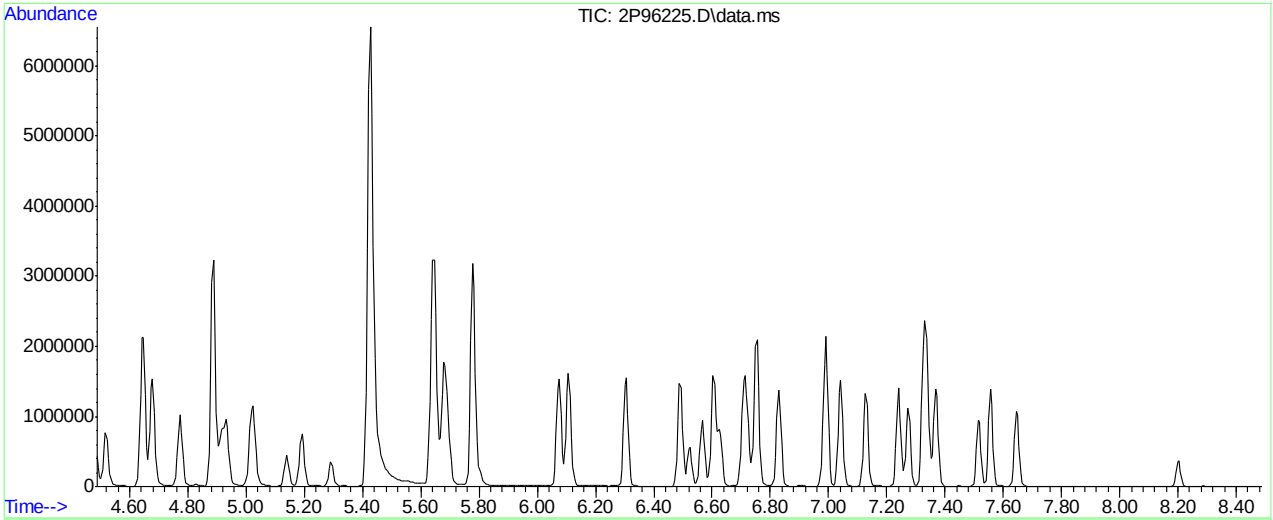
response 1275

Ion	Exp%	Act%
126.00	100	100
91.00	515.60	534.76
65.00	64.10	78.64
0.00	0.00	0.00

Methods: SW-846 8260B

Data File : C:\msdchem\1\DATA\2022-12-12\2P96225.D Vial: 52
Acq On : 12 Dec 2022 10:18 am Operator: courtnef
Sample : BFB Inst : MSVOA13
Misc : MS52806,V2P3657,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V2P_2022-11-04.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B



AutoFind: Scans 1127, 1128, 1129; Background Corrected with Scan 1120

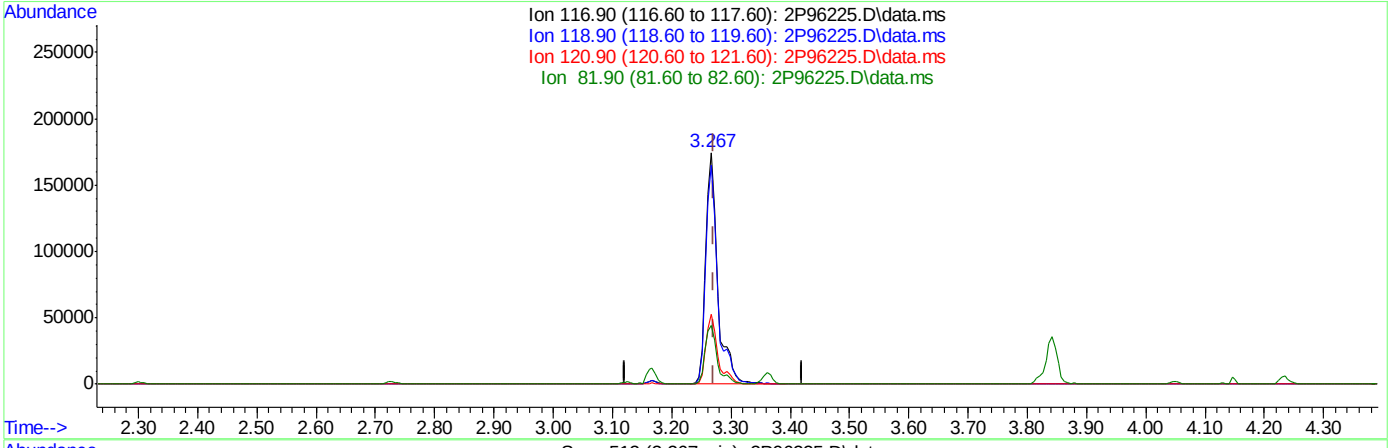
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	52885	PASS
75	95	30	60	51.2	144322	PASS
95	95	100	100	100.0	282090	PASS
96	95	5	9	6.7	18800	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	67.0	189090	PASS
175	174	5	9	7.9	14875	PASS
176	174	95	101	96.6	182701	PASS
177	176	5	9	6.7	12323	PASS

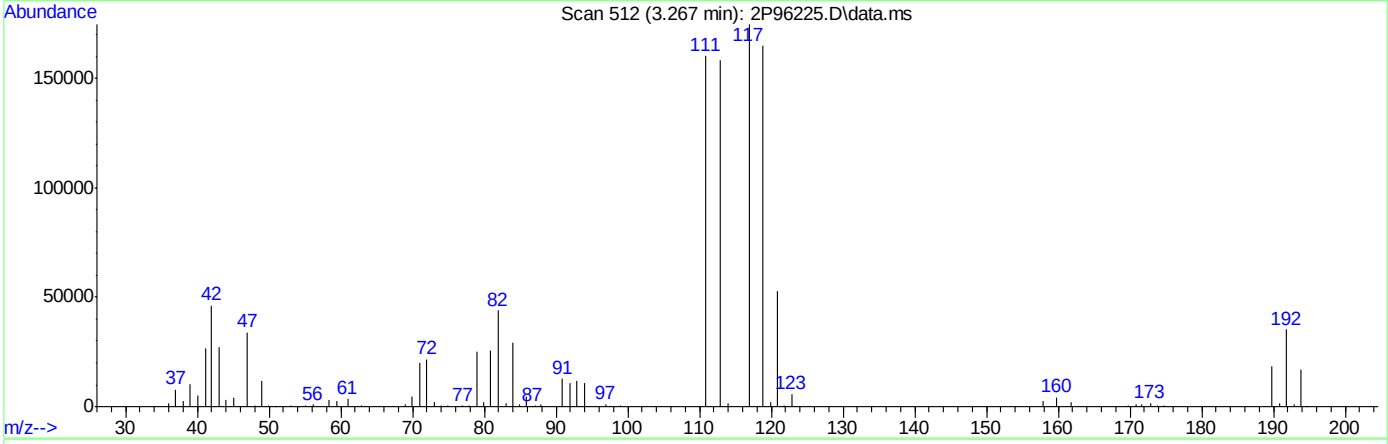
2P96225.D V2P_2022-11-04.M Mon Dec 12 10:39:32 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96225.D
Acq On : 12 Dec 2022 10:18 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3657,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 12 10:37:57 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96225.D\data.ms

(40) Carbon Tetrachloride ( )

3.267min (-0.005) 54.17ug/L

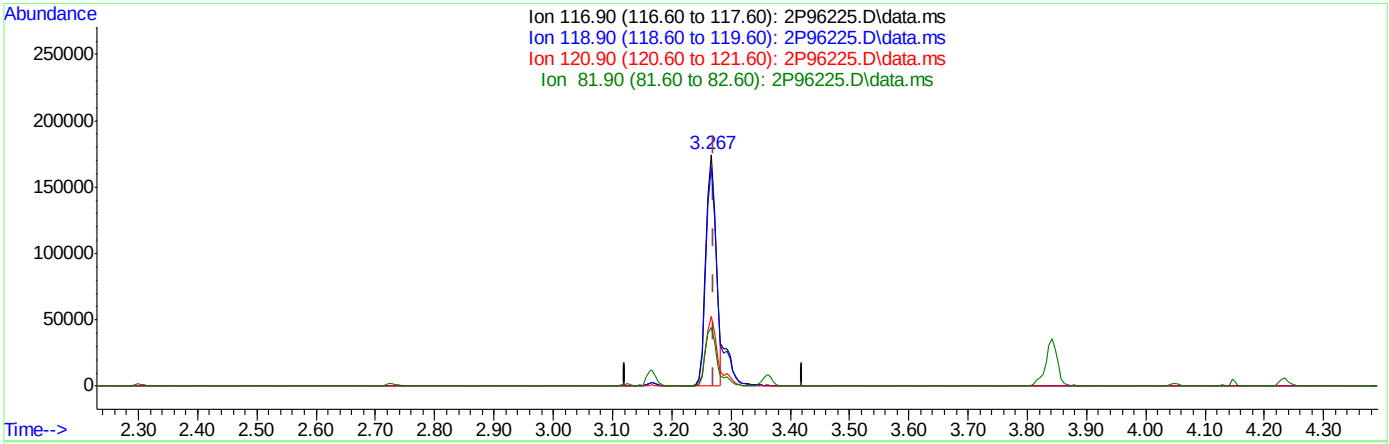
response 242753

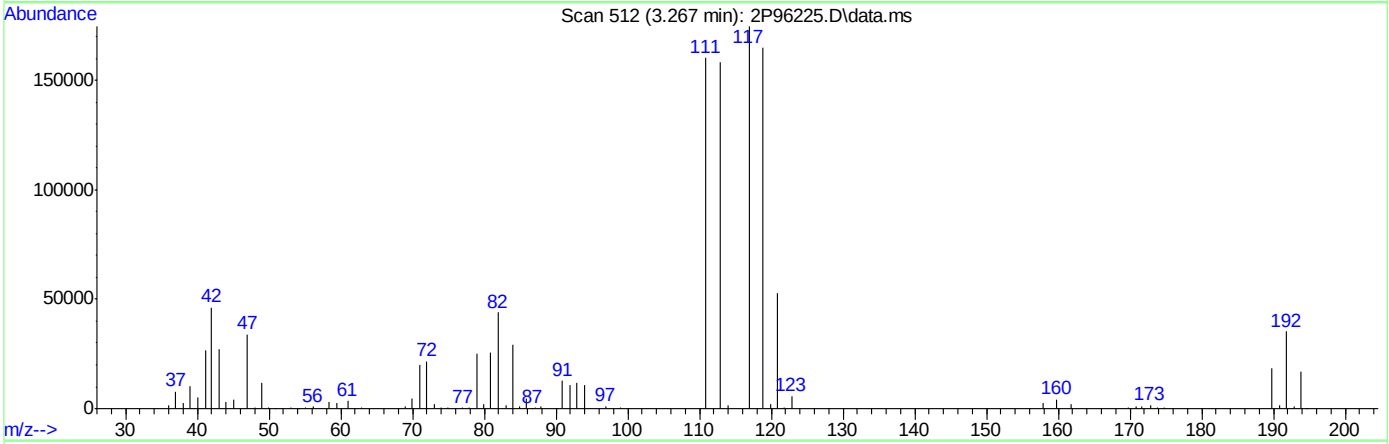
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	94.39
120.90	30.80	30.07
81.90	27.00	25.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96225.D
Acq On : 12 Dec 2022 10:18 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3657,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 12 10:37:57 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96225.D\data.ms

(40) Carbon Tetrachloride ( )

3.267min (-0.005) 46.08ug/L m

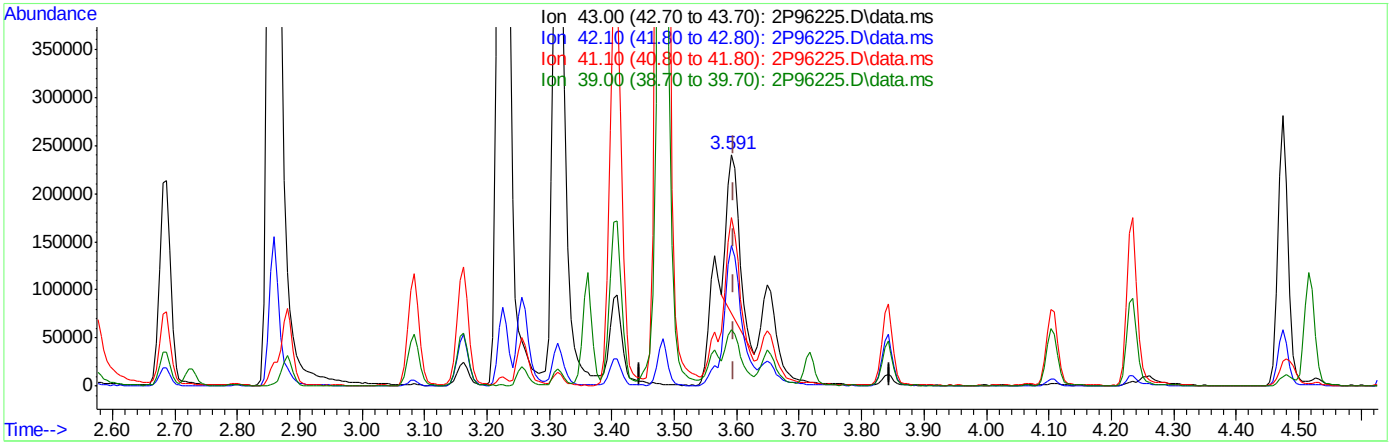
response 206530

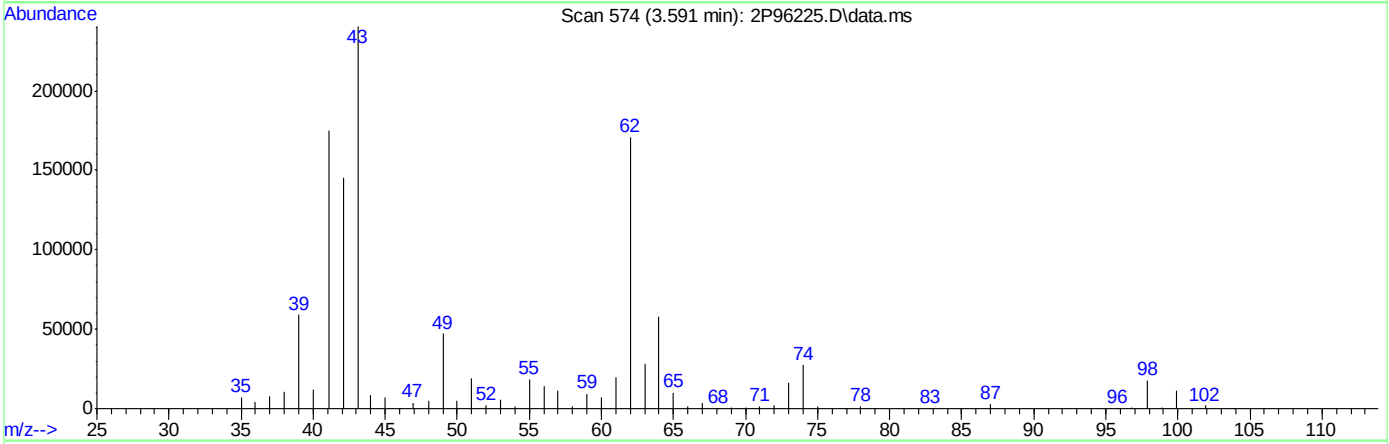
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	94.39
120.90	30.80	30.07
81.90	27.00	25.19

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96225.D
Acq On : 12 Dec 2022 10:18 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3657,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 12 10:37:57 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96225.D\data.ms

(50) Isobutyl alcohol

3.591min (-0.005) 289.25ug/L

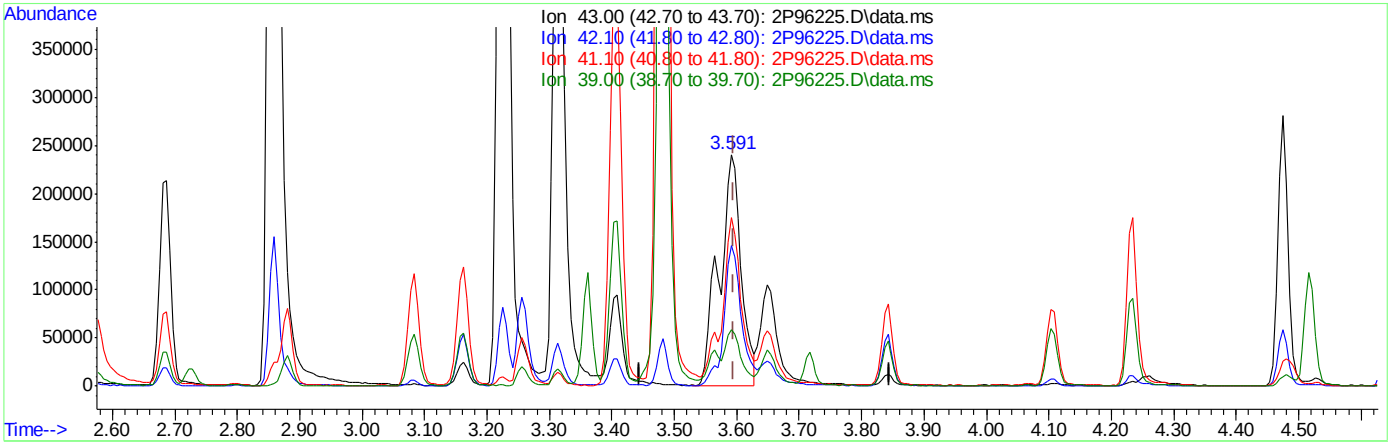
response 220634

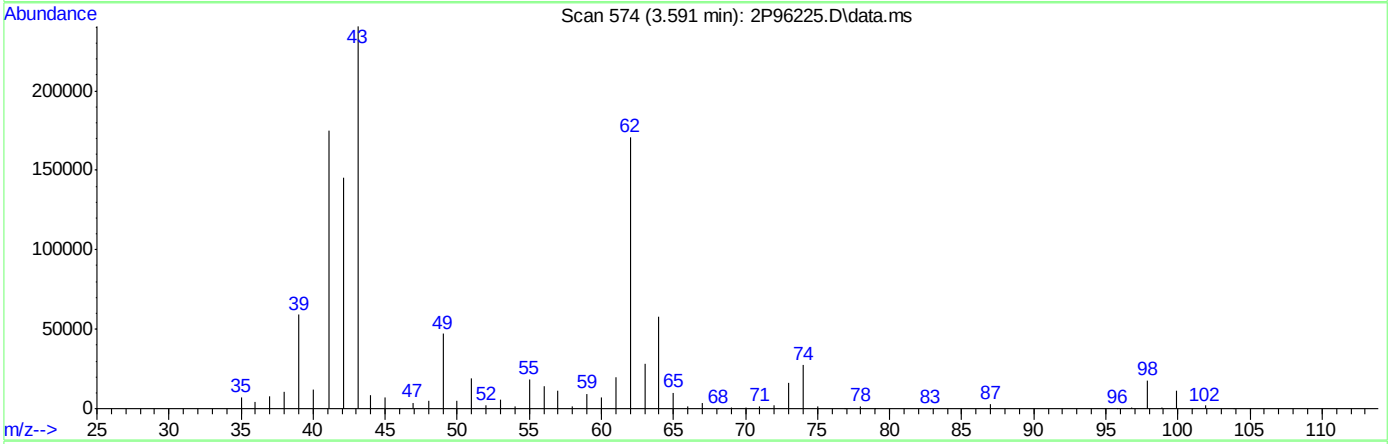
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	60.26
41.10	71.90	71.98
39.00	26.60	23.78

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96225.D
Acq On : 12 Dec 2022 10:18 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3657,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 12 10:37:57 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96225.D\data.ms

(50) Isobutyl alcohol

3.591min (-0.005) 768.65ug/L m

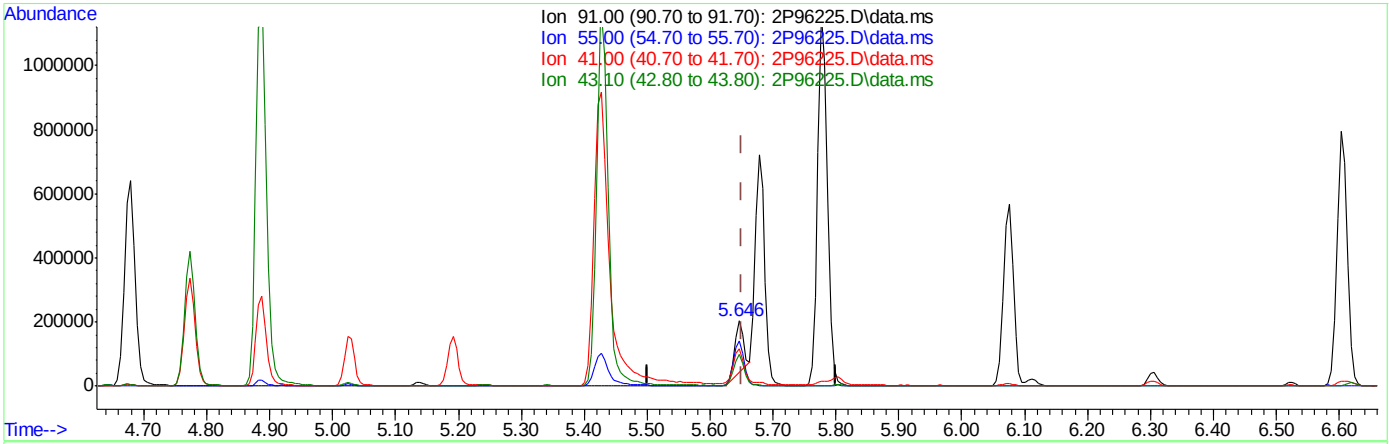
response 586318

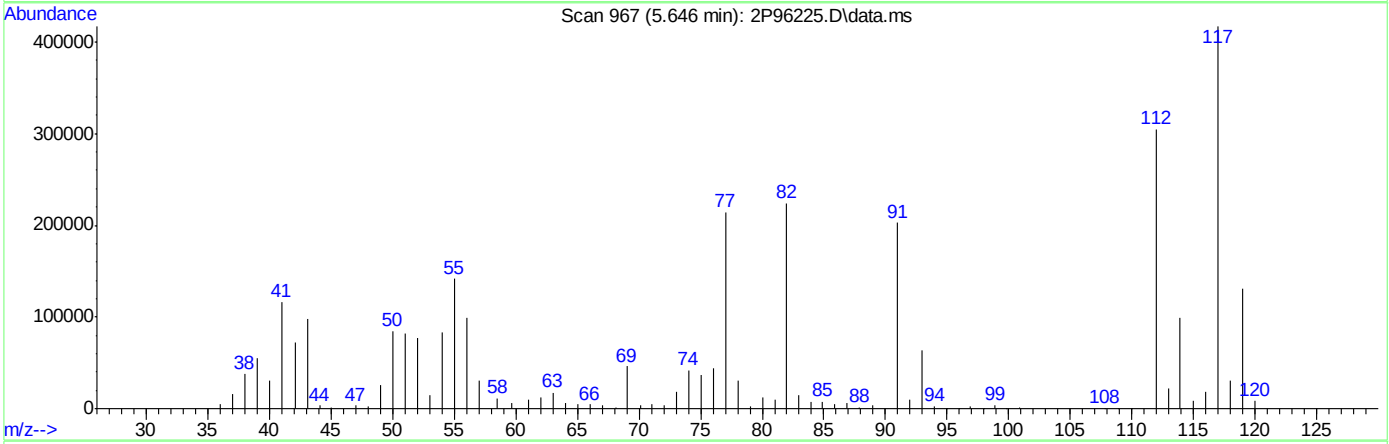
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	60.53
41.10	71.90	72.69
39.00	26.60	24.53

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96225.D
Acq On : 12 Dec 2022 10:18 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3657,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 12 10:37:57 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96225.D\data.ms

(76) 1-Chlorohexane

5.646min (-0.005) 26.35ug/L

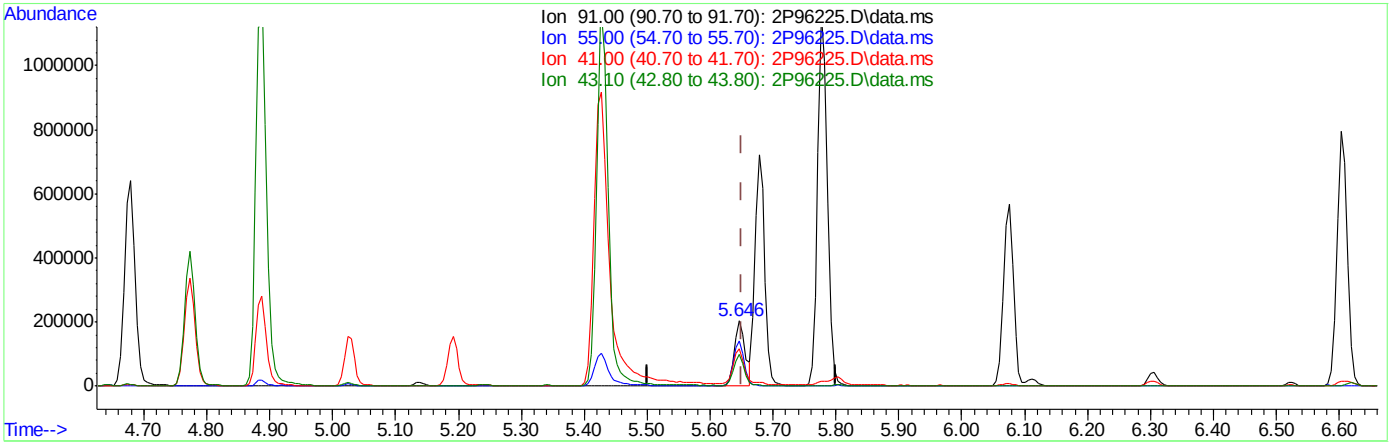
response 154483

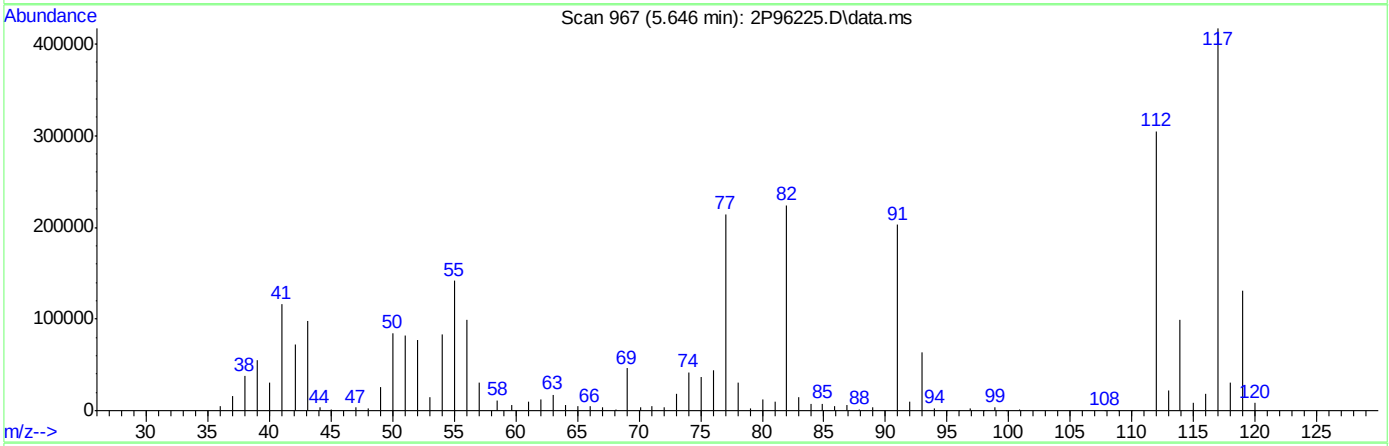
Ion	Exp%	Act%
91.00	100	100
55.00	73.60	67.73
41.00	60.90	53.15
43.10	49.80	46.93

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96225.D
Acq On : 12 Dec 2022 10:18 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3657,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 12 10:37:57 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96225.D\data.ms

(76) 1-Chlorohexane

5.646min (-0.005) 40.90ug/L m

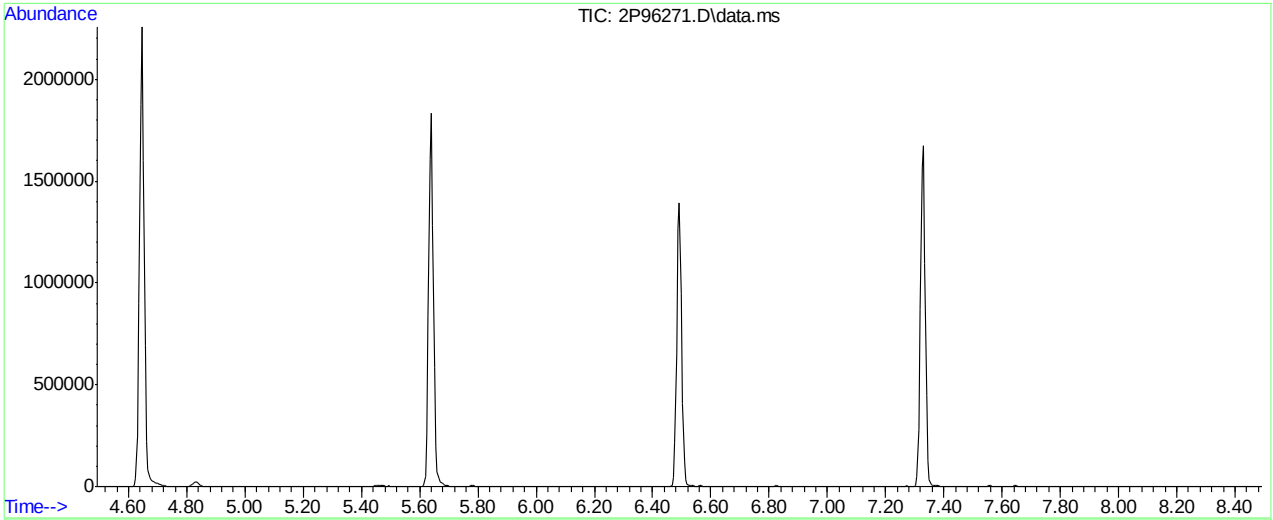
response 239801

Ion	Exp%	Act%
91.00	100	100
55.00	73.60	69.96
41.00	60.90	57.54
43.10	49.80	48.57

Methods: SW-846 8260B

```
Data File : C:\msdchem\1\DATA\2022-12-13\2P96271.D       Vial: 51
Acq On    : 13 Dec 2022   9:45 am                    Operator: courtnef
Sample    : BFB                                     Inst    : MSVOA13
Misc      : MS52806,V2P3658,,,,,                    Multiplr: 1.00
MS Integration Params: big.p

Method    : C:\msdchem\1\MET...V2P_2022-11-04.M (RTE Integrator)
Title     : SW-846 Method 5035A/8260B
```



AutoFind: Scans 1128, 1129, 1130; Background Corrected with Scan 1121

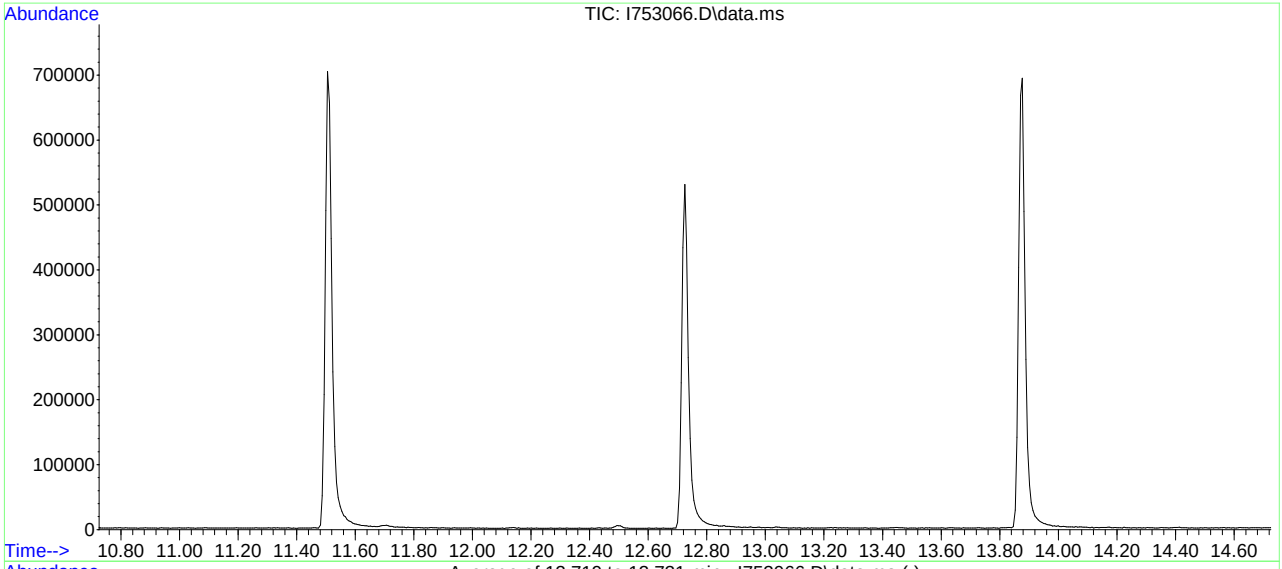
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	44997	PASS
75	95	30	60	49.6	131093	PASS
95	95	100	100	100.0	264256	PASS
96	95	5	9	6.5	17302	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	71.4	188800	PASS
175	174	5	9	7.9	14829	PASS
176	174	95	101	98.4	185770	PASS
177	176	5	9	6.7	12377	PASS

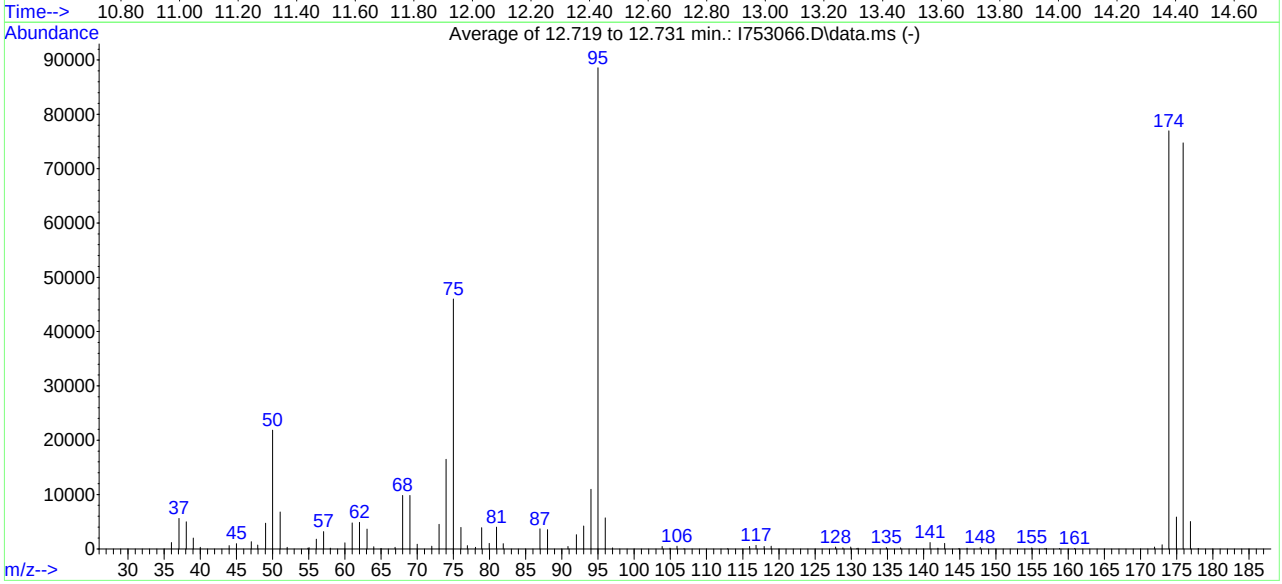
2P96271.D V2P_2022-11-04.M Tue Dec 13 10:29:44 2022

Methods: SW-846 8260B

```
Data File : C:\msdchem\1\data\2022-11-30\I753066.D       Vial: 1
Acq On    : 30 Nov 2022  10:12 am                    Operator: kylieg
Sample    : BFB                                      Inst    : MSVOA16
Misc      : MS52729,VI2765,,,,,                      Multiplr: 1.00
MS Integration Params: tiny.p

Method    : C:\msdchem\1\met...2-11-30-APP9-I.m (RTE Integrator)
Title     : SW-846 Method 5035A/8260B
```





AutoFind: Scans 1908, 1909, 1910; Background Corrected with Scan 1901

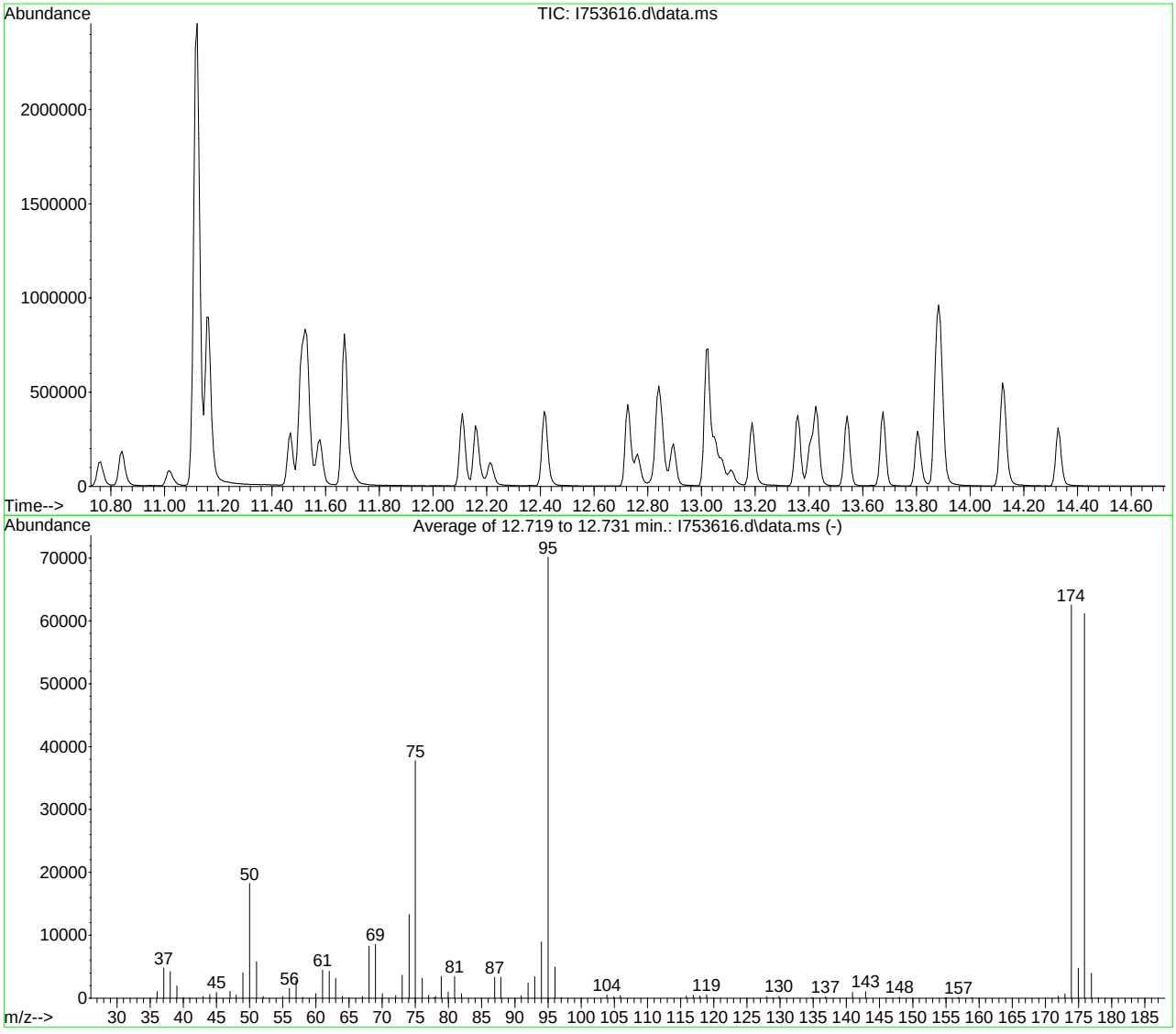
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.7	21861	PASS
75	95	30	60	51.9	45997	PASS
95	95	100	100	100.0	88557	PASS
96	95	5	9	6.4	5702	PASS
173	174	0.00	2	1.0	756	PASS
174	95	50	100	86.9	76973	PASS
175	174	5	9	7.6	5871	PASS
176	174	95	101	97.1	74744	PASS
177	176	5	9	6.7	5025	PASS

I753066.D 2022-11-30-APP9-I.m Wed Nov 30 14:43:49 2022

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\jo...2022\vi2788\I753616.d Vial: 2
Acq On : 15 Dec 2022 9:44 am Operator: kylieg
Sample : BFB Inst : MSVOA16
Misc : MS52729,VI2788,,,,, Multiplr: 1.00
MS Integration Params: tiny.p

Method : C:\msdchem\1\met...2-11-30-APP9-I.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B



AutoFind: Scans 1908, 1909, 1910; Background Corrected with Scan 1902

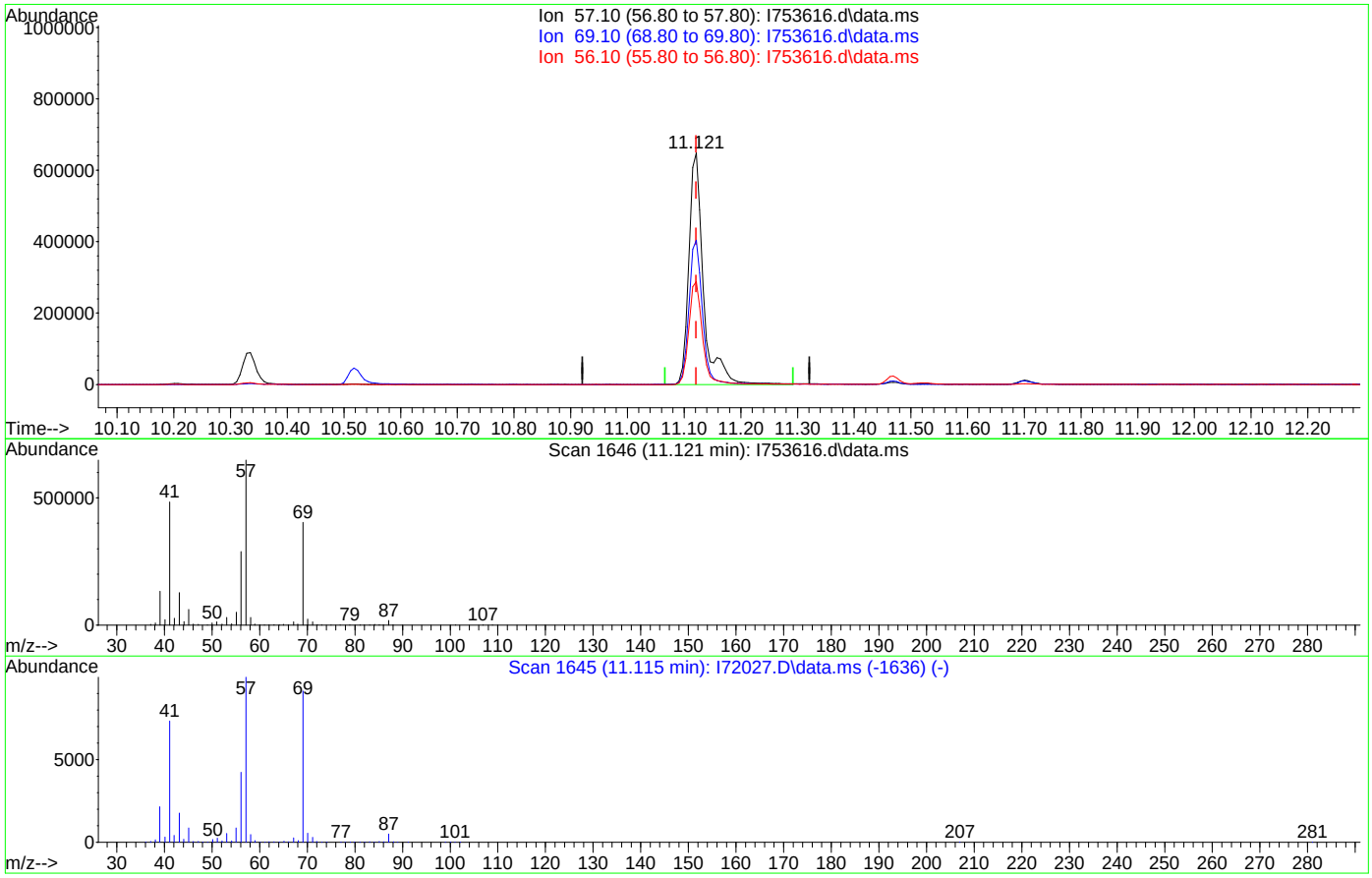
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.0	18250	PASS
75	95	30	60	53.9	37779	PASS
95	95	100	100	100.0	70139	PASS
96	95	5	9	7.1	4946	PASS
173	174	0.00	2	1.1	680	PASS
174	95	50	100	89.2	62568	PASS
175	174	5	9	7.6	4765	PASS
176	174	95	101	97.7	61141	PASS
177	176	5	9	6.4	3934	PASS

I753616.d 2022-11-30-APP9-I.m Fri Dec 16 00:06:50 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753616.d
Acq On : 15 Dec 2022 9:44 am
Operator : kylieg
Sample : cc2765-5 Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:04:40 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration



TIC: I753616.d\data.ms

(74) 3,3-dimethyl-1-butanol

11.121min (+0.000) 1644.98ug/L

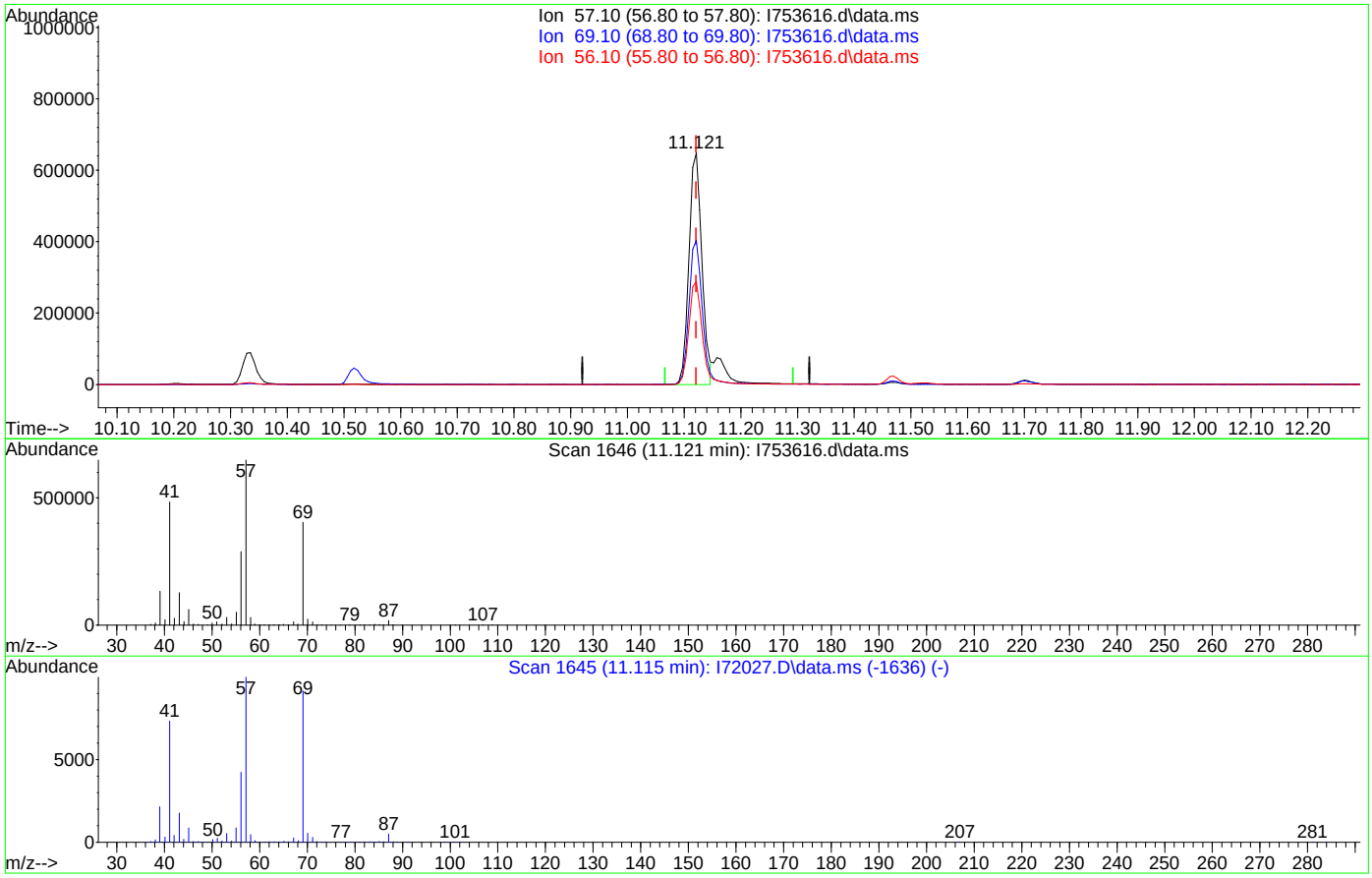
response 1166065

Ion	Exp%	Act%
57.10	100	100
69.10	62.70	62.21
56.10	44.30	44.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753616.d
Acq On : 15 Dec 2022 9:44 am
Operator : kylieg
Sample : cc2765-5 Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:04:40 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration



TIC: I753616.d\data.ms

(74) 3,3-dimethyl-1-butanol

11.121min (+0.000) 1448.01ug/L m

response 1026436

Ion	Exp%	Act%
57.10	100	100
69.10	62.70	62.26
56.10	44.30	44.46
0.00	0.00	0.00

671 of 1489
SGS
FC1200
I753616.D edits: 3,3-dimethyl-1-butanol
7.5.12.2
7

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 12/13/22 12:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1696,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:46:41 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	203026	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	167060	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	89299	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	66642	58.71	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 117.42%			
49) 1,2-Dichloroethane-d4	3.474	65	67694	56.00	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 112.00%			
63) Toluene-d8	4.605	98	208042	55.98	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 111.96%			
86) 4-Bromofluorobenzene	6.521	174	74767	55.59	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 111.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.034	85	1436	1.66	ug/L	83
3) Chloromethane	1.157	50	1746	1.62	ug/L	98
4) 1,3-butadiene	1.219	39	917m	0.59	ug/L	
5) Vinyl Chloride	1.203	62	1462	1.07	ug/L	96
6) Bromomethane	1.403	94	1265	0.68	ug/L	90
7) Chloroethane	1.488	64	973m	0.55	ug/L	
8) Trichlorofluoromethane	1.580	101	1934	0.44	ug/L	94
9) Ethyl Ether	1.773	59	903m	1.02	ug/L	
11) 1,2-Dichlorotrifluoroe...	1.873	67	1535	1.40	ug/L	90
12) 1,1-Dichloroethene	1.873	61	1646	1.14	ug/L	96
13) Freon 113	1.911	101	1095	1.24	ug/L	97
14) Carbon Disulfide	1.896	76	3808	1.47	ug/L	83
15) Iodomethane	1.958	142	721m	0.57	ug/L	
16) Acrolein	2.042	56	1386m	4.64	ug/L	
17) Allyl chloride	2.142	41	1767	1.59	ug/L	92
18) Methylene Chloride	2.196	49	3464	2.68	ug/L	82
19) Acetone	2.212	43	3272	6.15	ug/L	93
20) Methyl acetate	2.296	43	4775	3.45	ug/L	83
21) trans-1,2-Dichloroethene	2.296	61	1723	1.28	ug/L	97
22) Hexane	2.365	56	1074m	1.39	ug/L	
23) Methyl Tert Butyl Ether	2.365	73	3484	1.36	ug/L	73
24) Acetonitrile	2.365	41	1884m	9.76	ug/L	
25) Tert Butyl Alcohol	2.396	59	1976	7.66	ug/L	75
26) Di-isopropyl ether	2.589	45	3245	0.95	ug/L	91
27) Chloroprene	2.627	53	4193	0.83	ug/L	96
28) 1,1-Dichloroethane	2.635	63	2256	1.18	ug/L	94
29) Acrylonitrile	2.627	52	2486	3.73	ug/L	90
30) ETBE	2.789	59	3325	1.03	ug/L	98
31) Vinyl acetate	2.766	43	12542	5.38	ug/L	97
32) cis-1,2-Dichloroethene	2.935	96	1515	1.42	ug/L	92
33) 2,2-Dichloropropane	2.997	77	2030	1.62	ug/L	93
34) Bromochloromethane	3.035	128	635m	1.28	ug/L	
35) Cyclohexane	3.074	56	1948	1.13	ug/L	90
36) Chloroform	3.081	83	2503	1.34	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1696,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:46:41 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Ethyl acetate	3.143	43	6185	3.34	ug/L		92
38) Tetrahydrofuran	3.174	42	631m	0.97	ug/L		
40) Carbon Tetrachloride	3.181	117	1761m	1.46	ug/L		
41) 1,1,1-Trichloroethane	3.212	97	1998	1.37	ug/L		98
42) 2-Butanone	3.235	43	3960	3.84	ug/L		84
43) 1,1-Dichloropropene	3.281	75	1630	1.19	ug/L		89
44) tert-Butyl formate	3.327	59	4442	7.96	ug/L		92
45) Propionitrile	3.381	54	2279	6.53	ug/L		92
46) Methacrylonitrile	3.404	41	7516	5.78	ug/L		98
47) Benzene	3.412	78	5083	1.00	ug/L		94
48) TAME	3.497	73	3258	1.08	ug/L		93
50) 1,2-Dichloroethane	3.512	62	1851	1.10	ug/L		95
51) Isobutyl Alcohol	3.512	43	1175m	9.84	ug/L		
52) Tert Amyl Alcohol	3.574	59	1643	6.90	ug/L		92
53) Trichloroethene	3.758	95	1454	1.10	ug/L		93
54) Methylcyclohexane	3.774	83	1967	1.06	ug/L		87
55) Dibromomethane	3.989	93	910m	1.12	ug/L		
56) 1,2-Dichloropropane	4.051	63	1305	1.10	ug/L		82
57) Bromodichloromethane	4.089	83	1692	1.18	ug/L	#	87
58) Methyl methacrylate	4.189	41	1014	0.78	ug/L		86
59) 1,4-Dioxane	4.205	88	318m	13.09	ug/L		
60) 2-Chloroethyl vinyl ether	4.436	63	4089	4.72	ug/L		92
61) cis-1,3-Dichloropropene	4.474	75	1961	1.24	ug/L		86
64) Toluene	4.644	91	6063	1.22	ug/L		96
65) 2-Nitropropane	4.736	41	1666	3.98	ug/L		95
66) 4-Methyl-2-pentanone	4.859	43	8662	4.15	ug/L		90
67) trans-1,3-Dichloropropene	4.890	75	1781	1.29	ug/L		85
68) Tetrachloroethene	4.905	166	1481	1.06	ug/L		91
69) Ethyl methacrylate	5.013	69	1692	1.42	ug/L	#	67
70) 1,1,2-Trichloroethane	4.990	83	925m	1.04	ug/L		
71) Dibromochloromethane	5.121	129	1239	1.01	ug/L		94
72) 1,3-Dichloropropane	5.175	76	1893	1.14	ug/L		90
73) 1,2-Dibromoethane	5.275	107	1262	1.06	ug/L		85
74) 3,3-Dimethyl-1-Butanol	5.406	57	10033	43.05	ug/L		89
75) 2-hexanone	5.421	43	8383	4.08	ug/L	#	71
76) 1-Chlorohexane	5.652	91	2132m	1.25	ug/L		
77) Ethylbenzene	5.675	91	6225m	1.11	ug/L		
78) Chlorobenzene	5.644	112	3447	0.96	ug/L		78
79) 1,1,1,2-Tetrachloroethane	5.690	131	1112	0.90	ug/L		86
80) m,p-Xylene	5.783	91	9749	2.23	ug/L		95
81) o-Xylene	6.090	91	5243	1.28	ug/L		97
82) Styrene	6.121	104	3615	1.05	ug/L		93
83) Bromoform	6.121	173	858m	1.07	ug/L		
84) Isopropylbenzene	6.329	105	5740	1.07	ug/L		97
88) n-Propylbenzene	6.637	91	7029	1.06	ug/L		99
89) Bromobenzene	6.591	156	1461	0.96	ug/L	#	81
90) 1,1,2,2-Tetrachloroethane	6.660	83	1726	0.91	ug/L		99
91) 1,3,5-Trimethylbenzene	6.791	105	5040	1.04	ug/L		96
92) 2-Chlorotoluene	6.745	91	4242	1.20	ug/L		95
94) 1,2,3-Trichloropropane	6.760	110	505m	0.79	ug/L		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1696,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:46:41 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

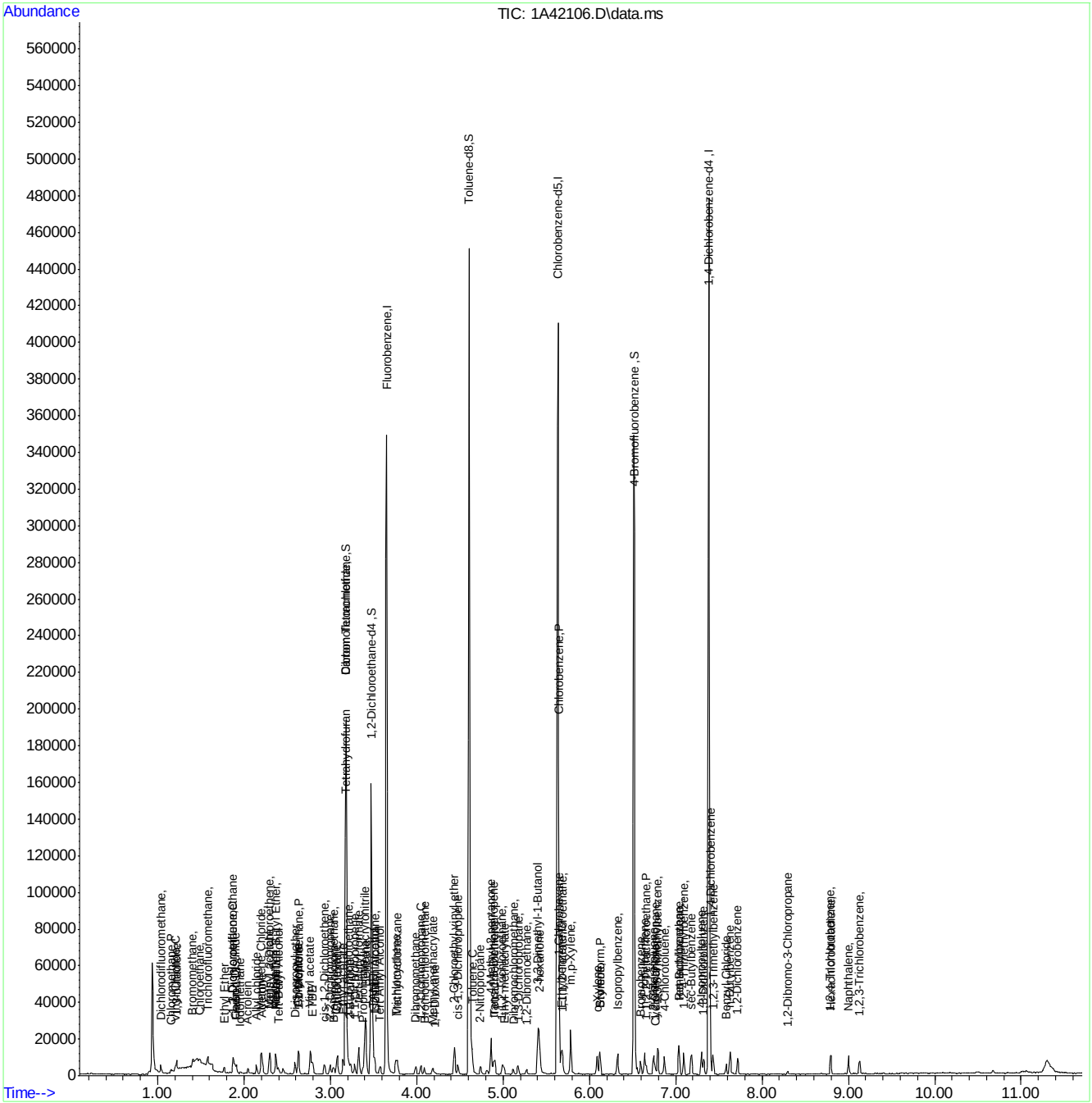
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) Cyclohexanone	6.768	55	670m	6.36	ug/L	
96) 4-Chlorotoluene	6.868	91	4470	1.18	ug/L	94
97) tert-Butylbenzene	7.037	91	3149	1.24	ug/L	87
98) 1,2,4-Trimethylbenzene	7.091	105	4668	0.99	ug/L	96
99) Pentachloroethane	7.037	167	647m	1.03	ug/L	
100) sec-Butylbenzene	7.183	105	5927	0.99	ug/L	97
101) 4-Isopropyltoluene	7.299	119	5129	0.95	ug/L	97
102) 1,3-Dichlorobenzene	7.322	146	2895	0.98	ug/L	94
103) 1,2,3-Trimethylbenzene	7.430	105	4533	1.01	ug/L	95
104) 1,4-Dichlorobenzene	7.399	146	3061	1.00	ug/L	89
105) n-Butylbenzene	7.630	92	2536	1.01	ug/L	92
106) Benzyl Chloride	7.584	126	595m	1.38	ug/L	
107) 1,2-Dichlorobenzene	7.714	146	2706	1.03	ug/L	96
108) 1,2-Dibromo-3-Chloropr...	8.299	75	303m	1.17	ug/L	
109) Hexachlorobutadiene	8.800	225	874m	1.41	ug/L	
110) 1,2,4-Trichlorobenzene	8.792	180	1712	1.18	ug/L	90
111) Naphthalene	9.000	128	5014	0.96	ug/L	97
112) 1,2,3-Trichlorobenzene	9.131	180	1675	1.40	ug/L	91

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1696,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:46:41 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
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Manual Integration Approval Summary

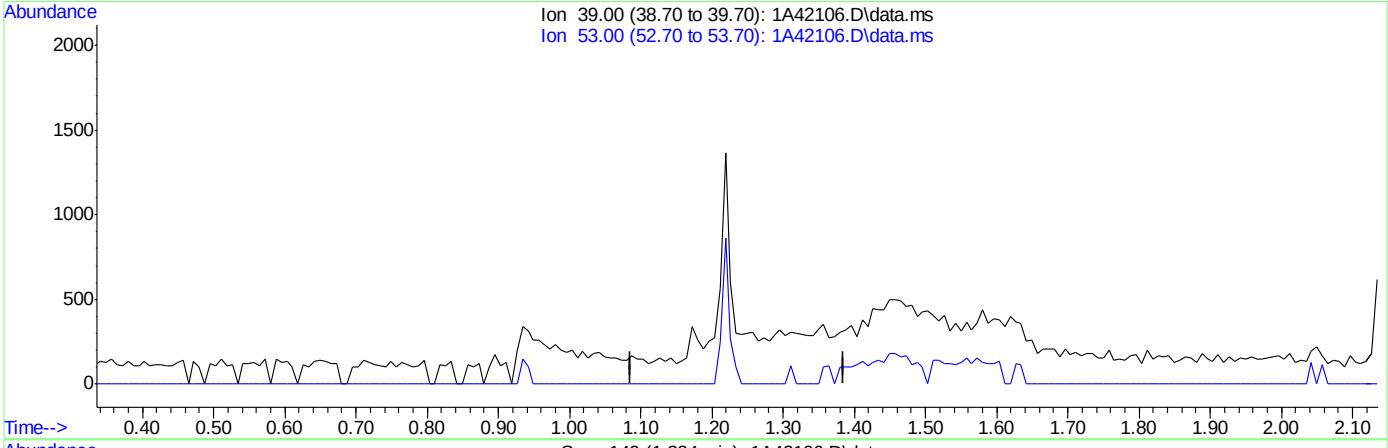
Sample Number: V1A1696-IC1696 **Method:** SW846 8260D
Lab FileID: 1A42106.D **Analyst approved:** 12/13/22 09:47 Jo-Ann Lugo De Jesus
Injection Time: 12/12/22 10:35 **Supervisor approved:** 12/13/22 12:21 Neil Christiana

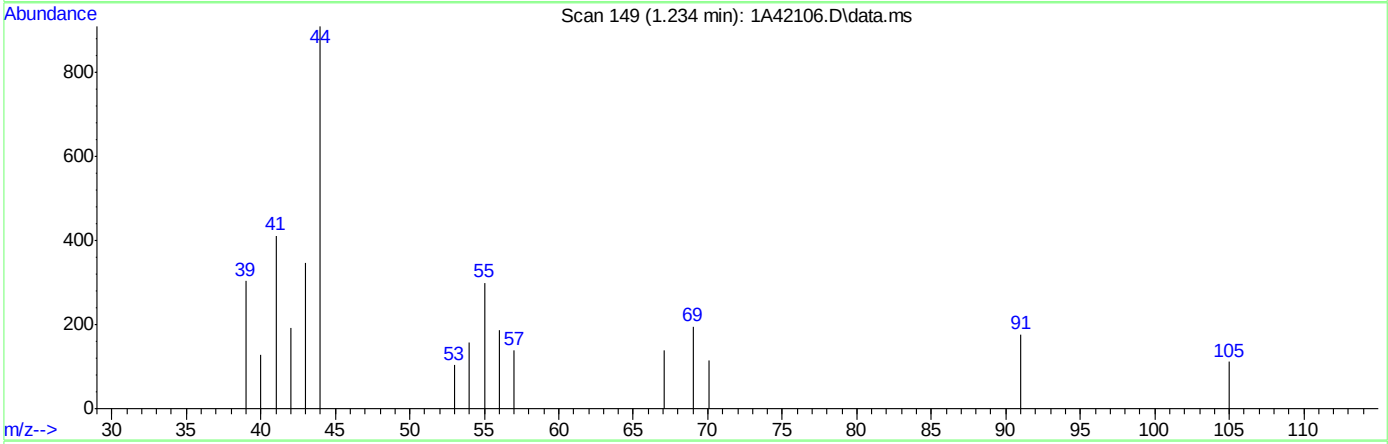
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,3-Butadiene	106-99-0		1.22	Missed peak
Chloroethane	75-00-3		1.49	Missed peak
Ethyl Ether	60-29-7		1.77	Missed peak
Methyl Iodide	74-88-4		1.96	Missed peak
Acrolein	107-02-8		2.04	Missed peak
Hexane	110-54-3		2.37	Overlapping peak
Acetonitrile	75-05-8		2.37	Poor instrument integration
Bromochloromethane	74-97-5		3.04	Missed peak
Tetrahydrofuran	109-99-9		3.17	Missed peak
Carbon Tetrachloride	56-23-5		3.18	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
Methylene Bromide	74-95-3		3.99	Missed peak
1,4-Dioxane	123-91-1		4.20	Missed peak
1,1,2-Trichloroethane	79-00-5		4.99	Missed peak
1-Chlorohexane	544-10-5		5.65	Poor instrument integration
Ethylbenzene	100-41-4		5.67	Poor instrument integration
Bromoform	75-25-2		6.12	Missed peak
1,2,3-Trichloropropane	96-18-4		6.76	Missed peak
Cyclohexanone	108-94-1		6.77	Missed peak
Pentachloroethane	76-01-7		7.04	Missed peak
Benzyl Chloride	100-44-7		7.58	Missed peak
1,2-Dibromo-3-chloropropane	96-12-8		8.30	Missed peak
Hexachlorobutadiene	87-68-3		8.80	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(4) 1,3-butadiene

1.236min (-1.236) 0.00ug/L

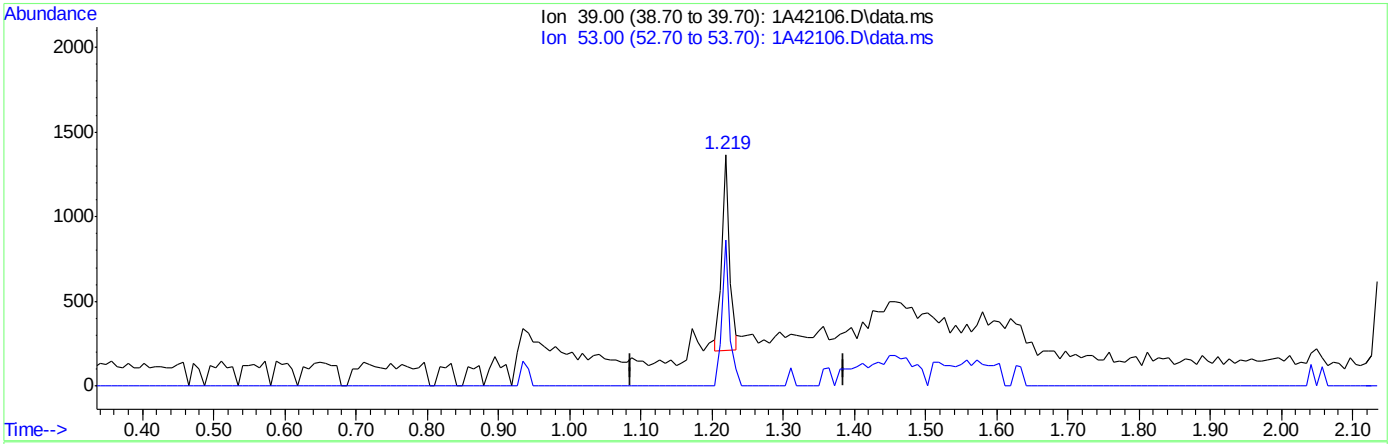
response 0

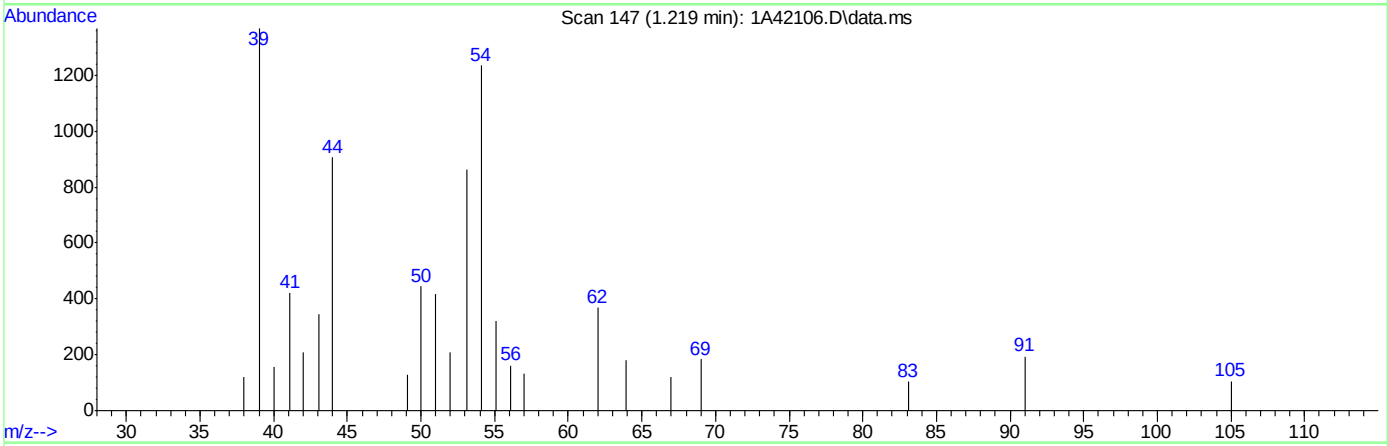
Ion	Exp%	Act%
39.00	100	0.00
53.00	61.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(4) 1,3-butadiene

1.219min (-0.017) 0.59ug/L m

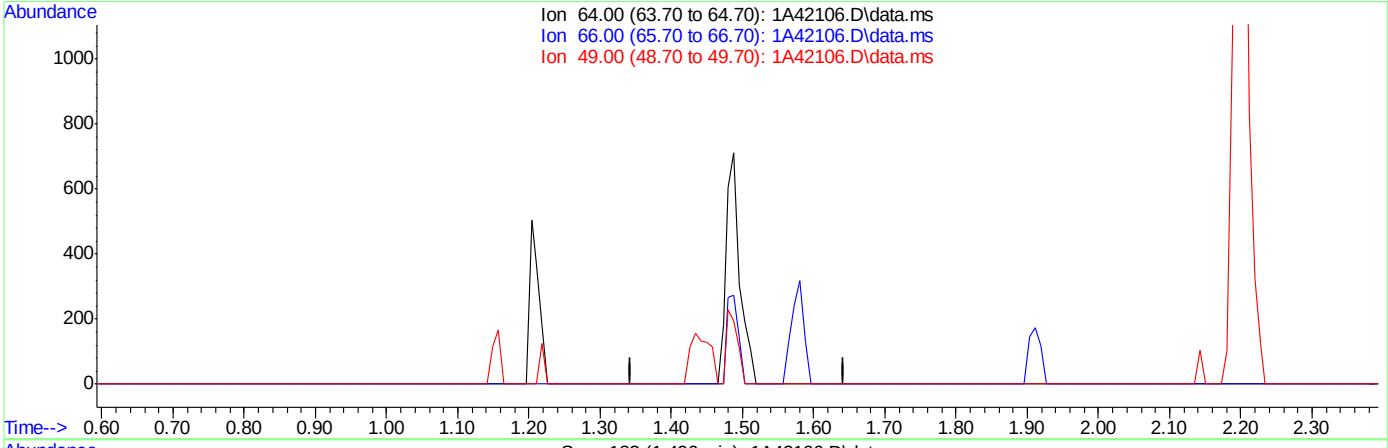
response 917

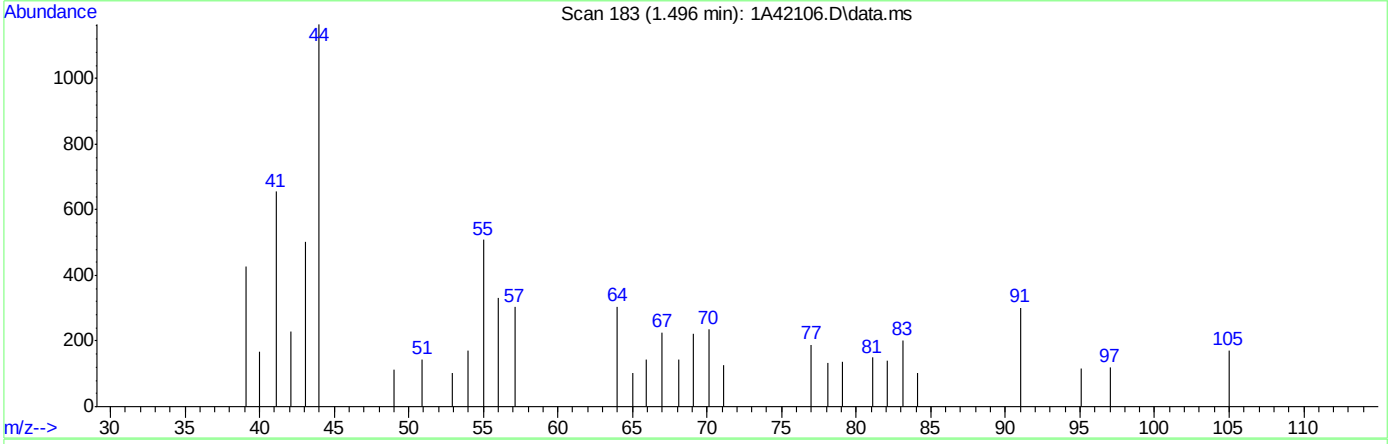
Ion	Exp%	Act%
39.00	100	100
53.00	61.00	63.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(7) Chloroethane ( )

1.493min (-1.493) 0.00ug/L

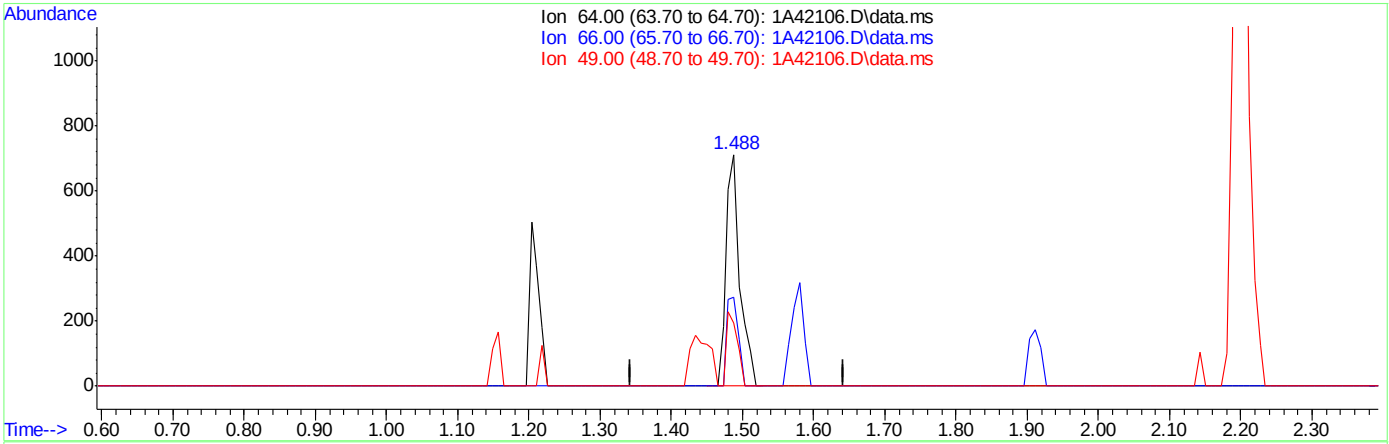
response 0

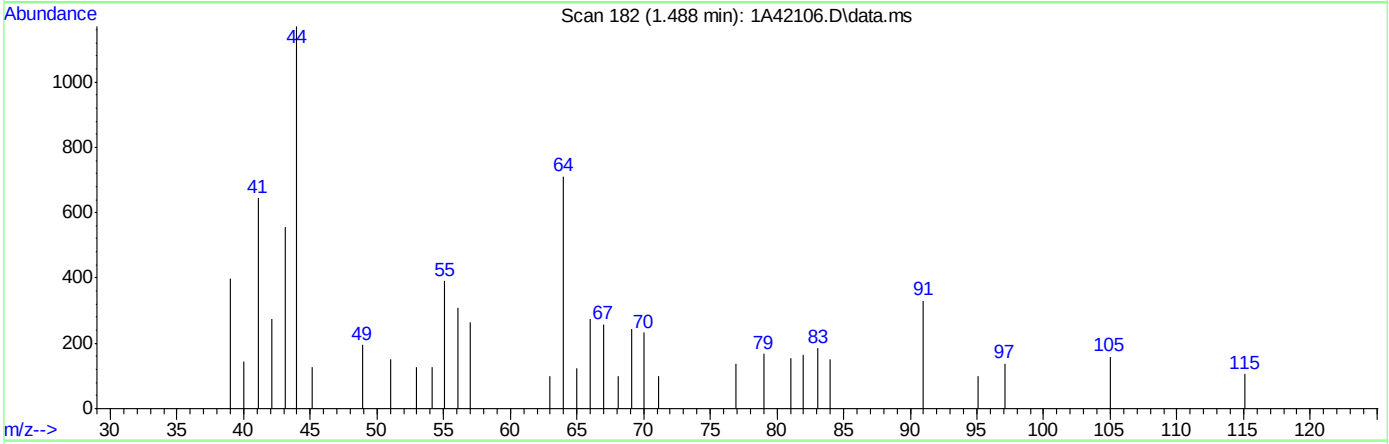
Ion	Exp%	Act%
64.00	100	0.00
66.00	29.70	0.00
49.00	29.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(7) Chloroethane ( )

1.488min (-0.005) 0.55ug/L m

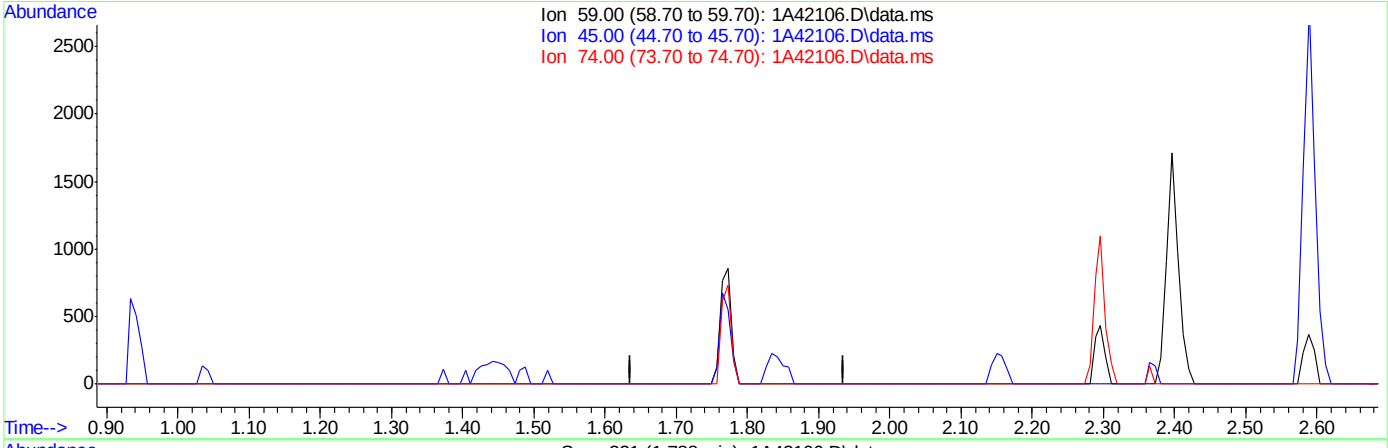
response 973

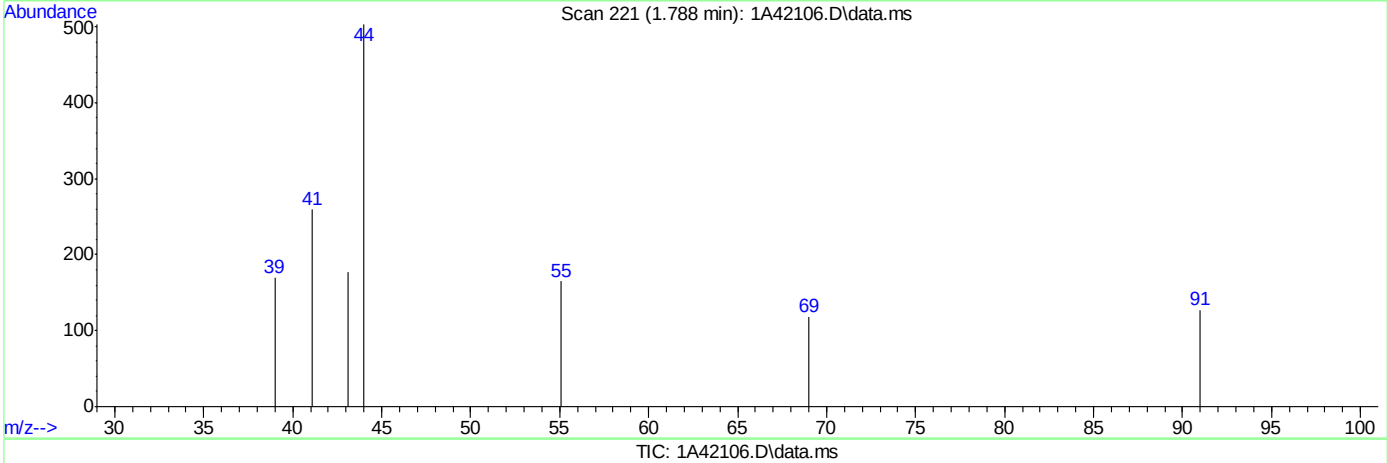
Ion	Exp%	Act%
64.00	100	100
66.00	29.70	38.48
49.00	29.90	27.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(9) Ethyl Ether

1.786min (-1.786) 0.00ug/L

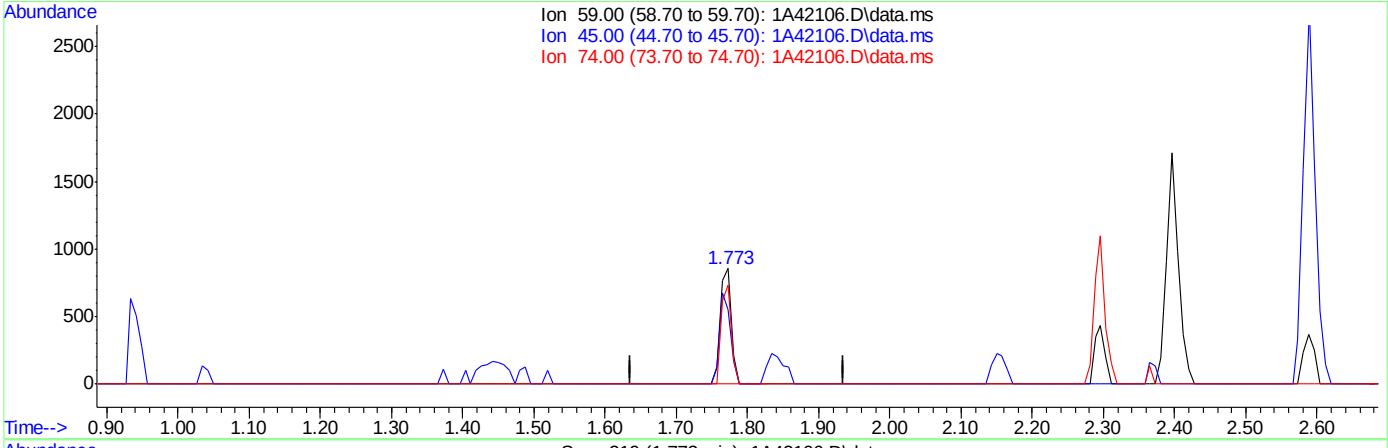
response 0

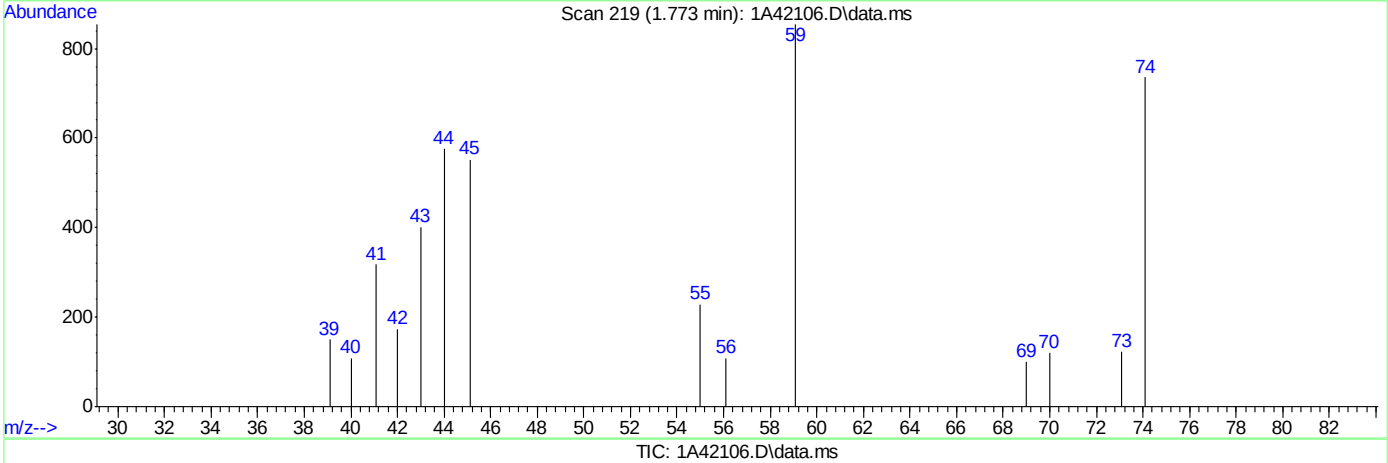
Ion	Exp%	Act%
59.00	100	0.00
45.00	76.50	0.00#
74.00	60.70	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(9) Ethyl Ether

1.773min (-0.013) 1.02ug/L m

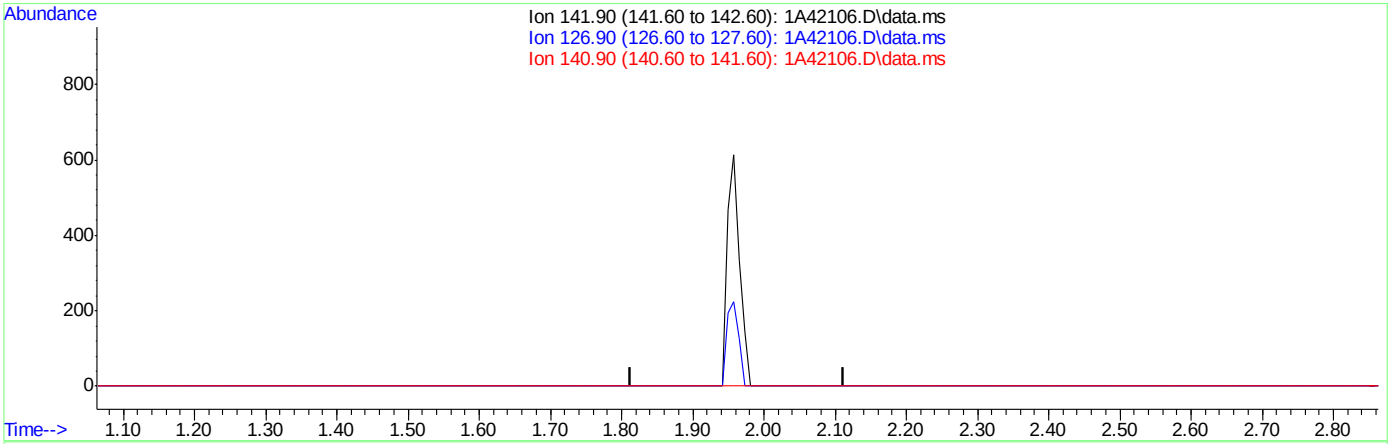
response 903

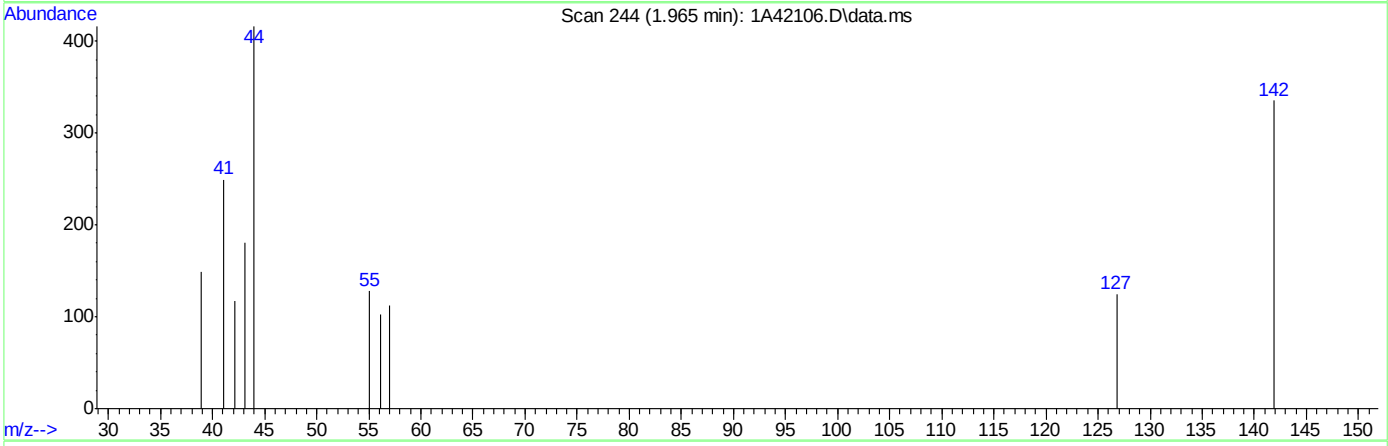
Ion	Exp%	Act%
59.00	100	100
45.00	76.50	64.64
74.00	60.70	86.18#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(15) Iodomethane

1.963min (-1.963) 0.00ug/L

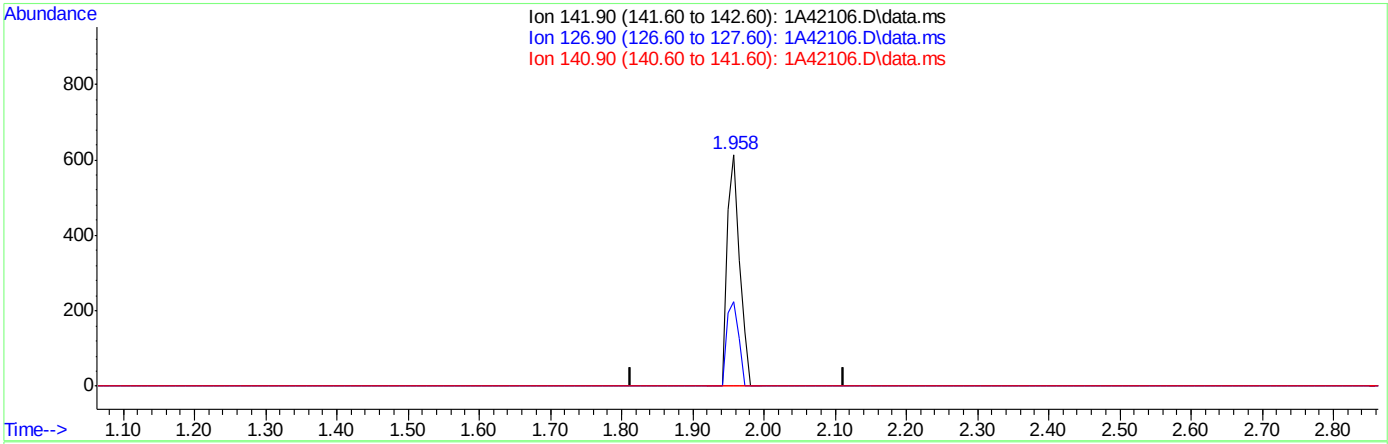
response 0

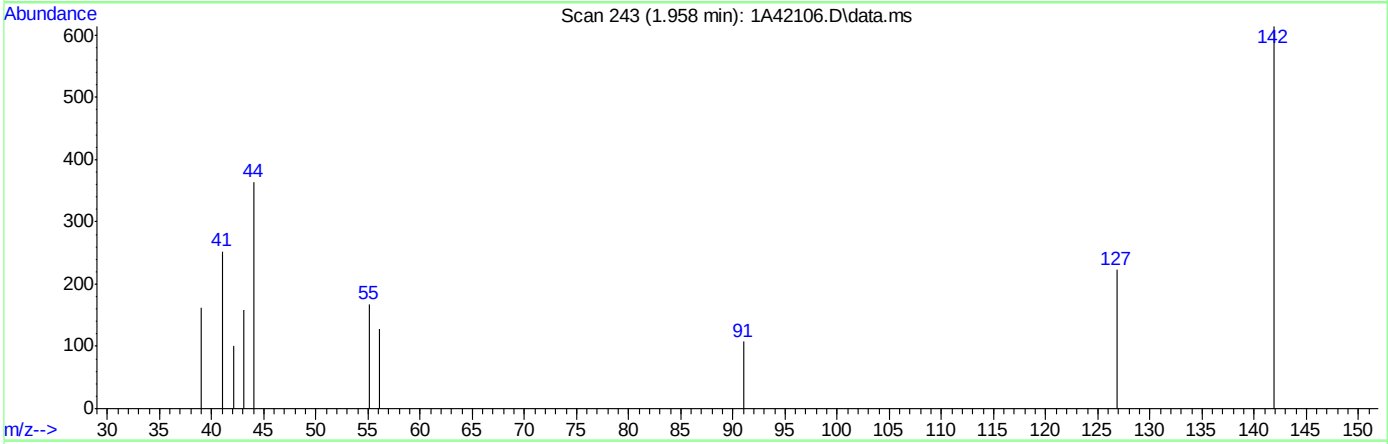
Ion	Exp%	Act%
141.90	100	0.00
126.90	42.30	0.00#
140.90	15.30	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(15) Iodomethane

1.958min (-0.005) 0.57ug/L m

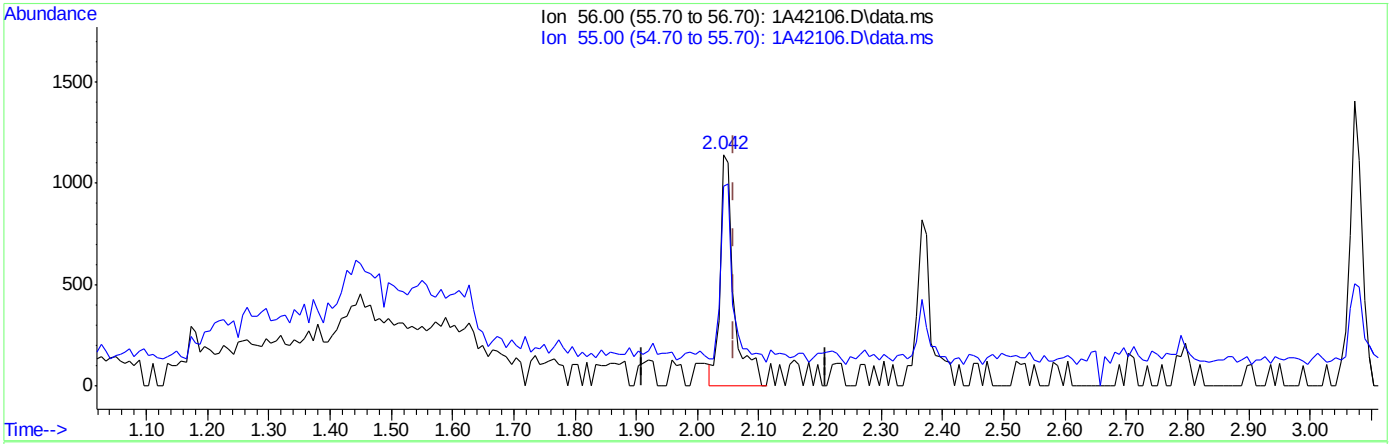
response 721

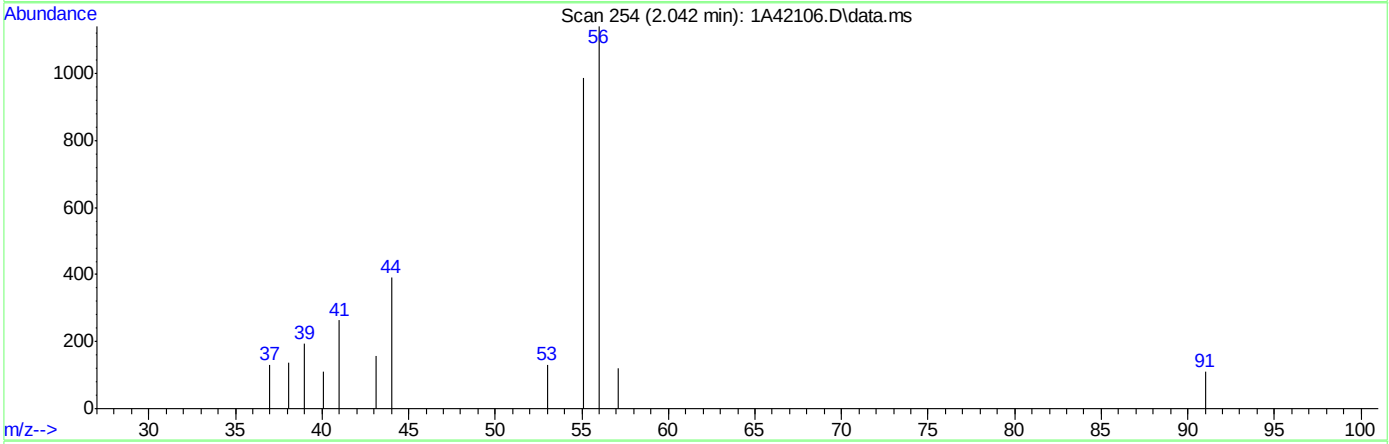
Ion	Exp%	Act%
141.90	100	100
126.90	42.30	36.32
140.90	15.30	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(16) Acrolein

2.042min (-0.017) 5.99ug/L

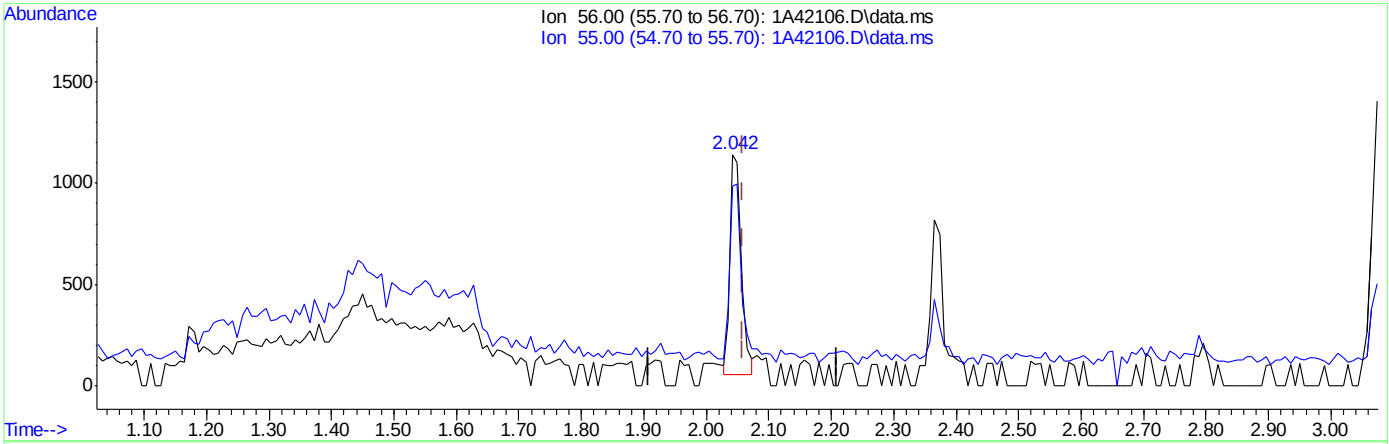
response 1791

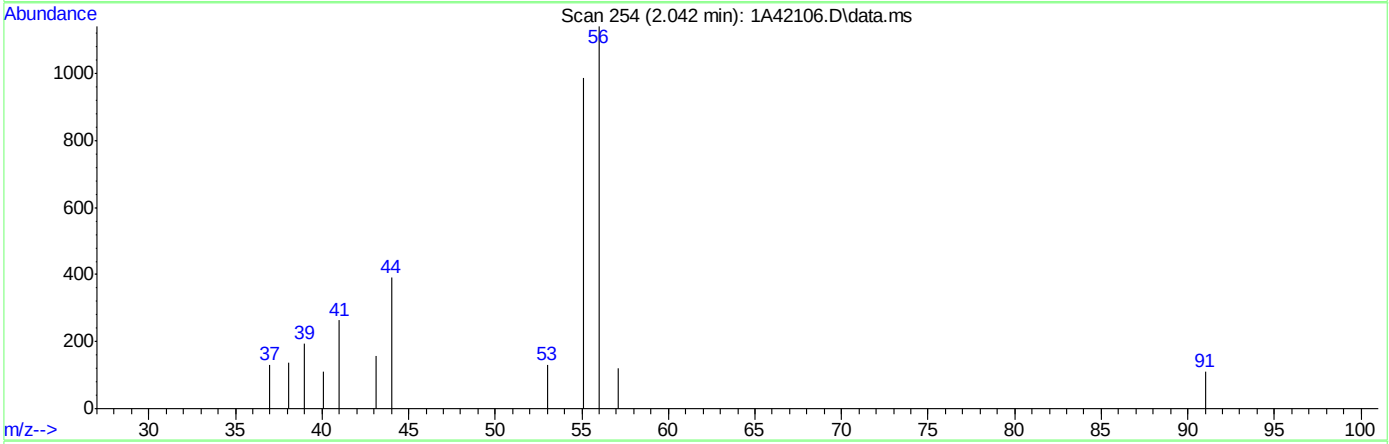
Ion	Exp%	Act%
56.00	100	100
55.00	73.20	69.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(16) Acrolein

2.042min (-0.017) 4.64ug/L m

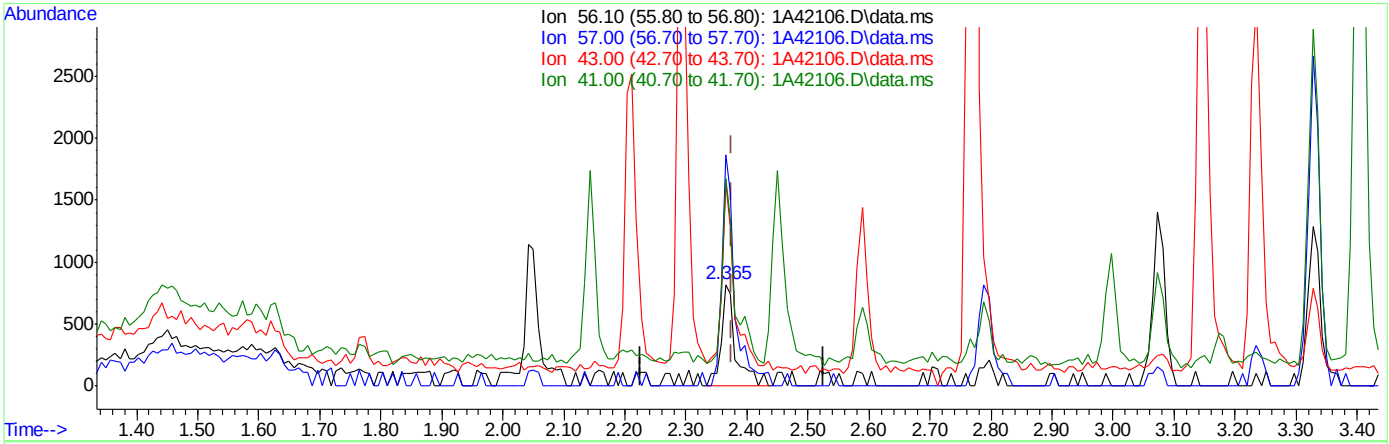
response 1386

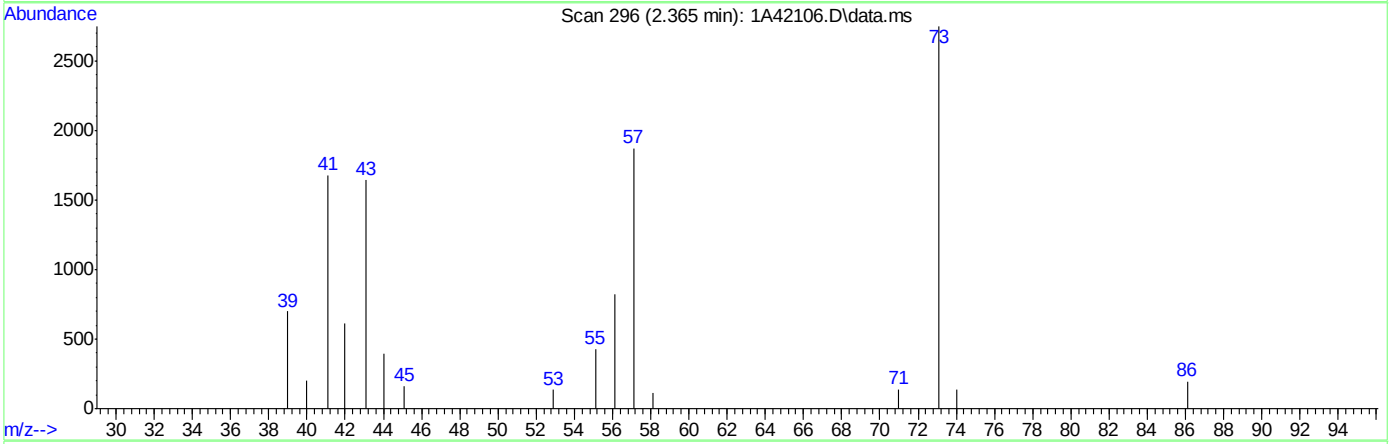
Ion	Exp%	Act%
56.00	100	100
55.00	73.20	89.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(22) Hexane

2.365min (-0.011) 1.77ug/L

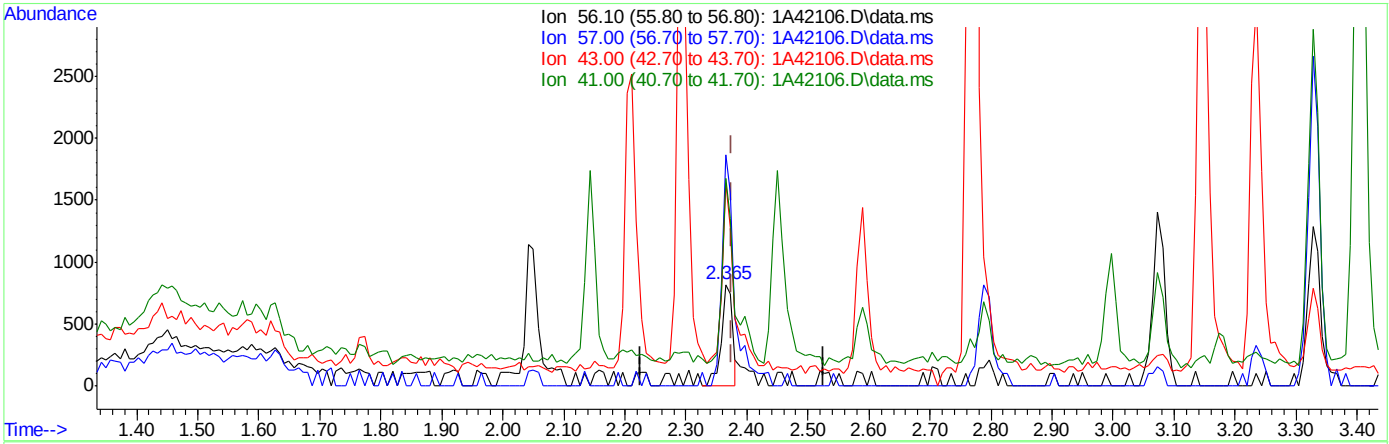
response 1373

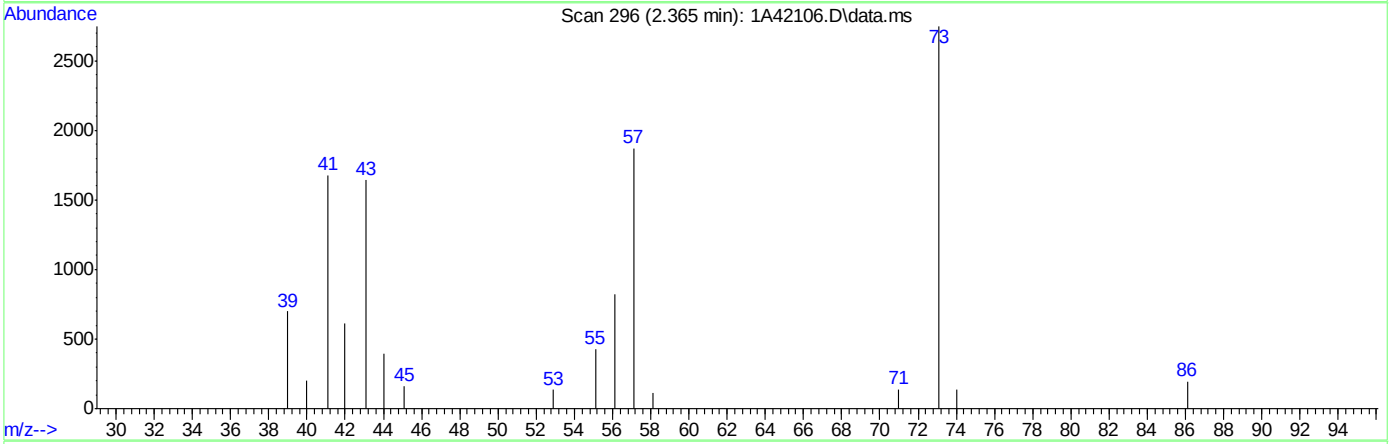
Ion	Exp%	Act%
56.10	100	100
57.00	257.60	228.21#
43.00	191.30	178.51
41.00	225.50	181.93#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(22) Hexane

2.365min (-0.011) 1.39ug/L m

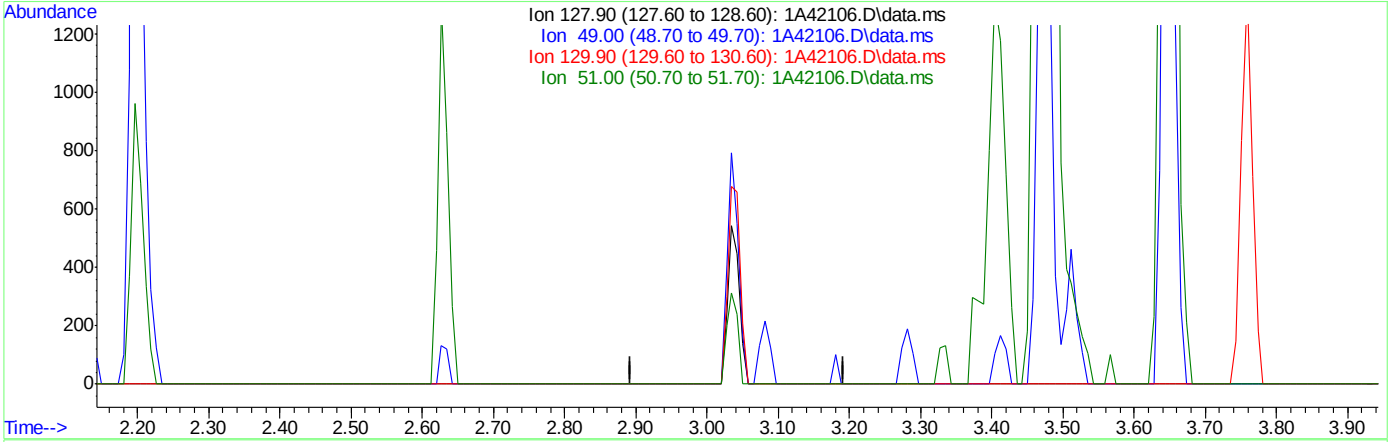
response 1074

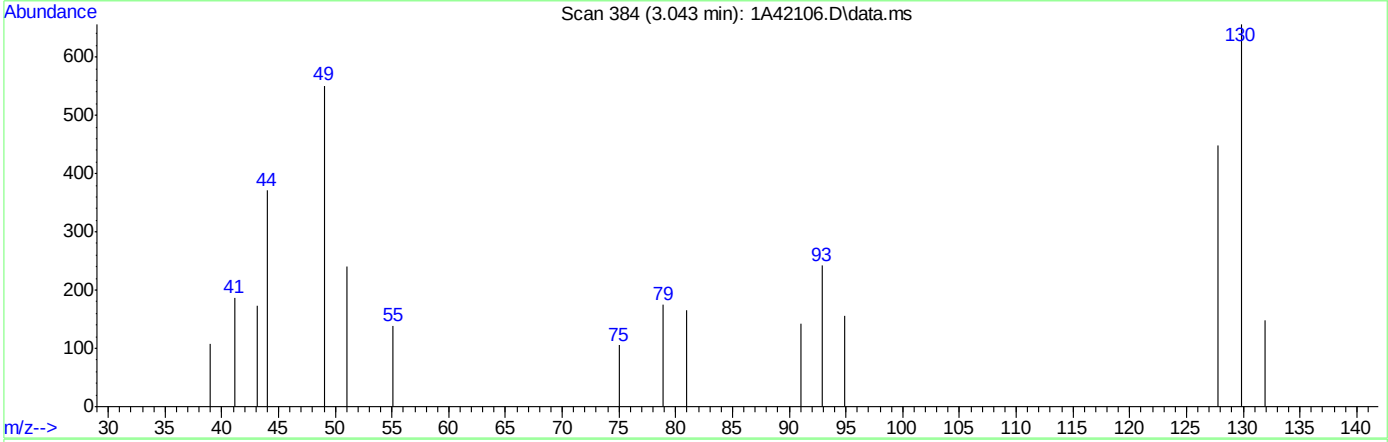
Ion	Exp%	Act%
56.10	100	100
57.00	257.60	228.21#
43.00	191.30	200.49
41.00	225.50	204.88#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(34) Bromochloromethane ( )

3.043min (-3.043) 0.00ug/L

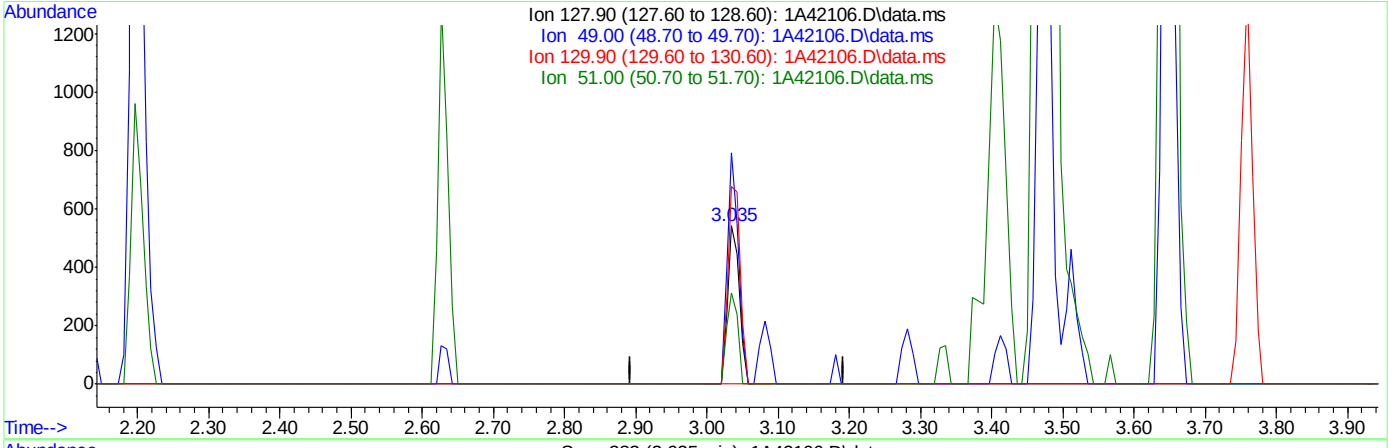
response 0

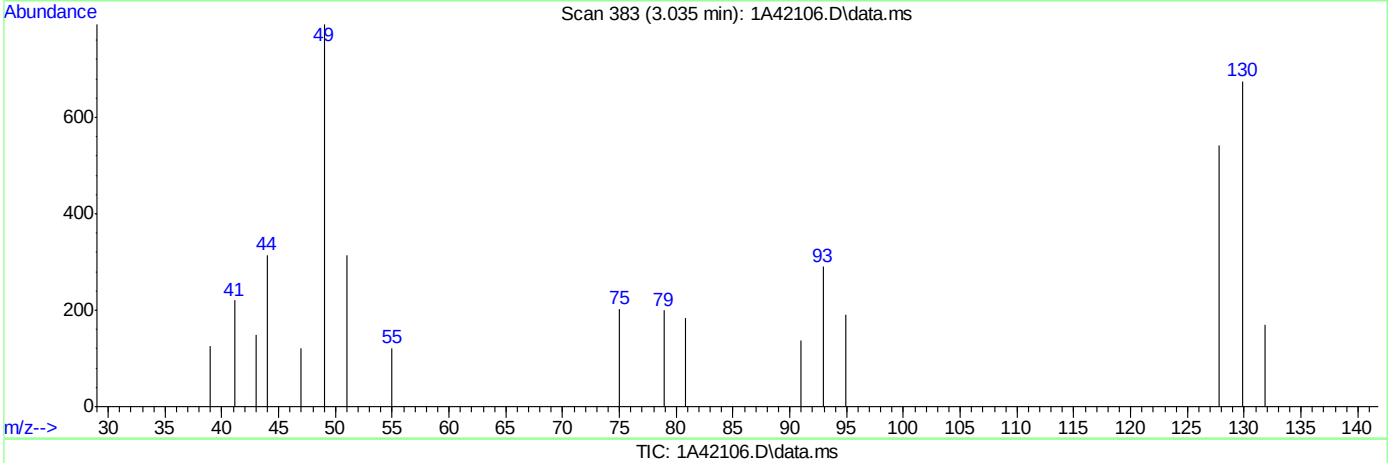
Ion	Exp%	Act%
127.90	100	0.00
49.00	171.80	0.00#
129.90	141.60	0.00#
51.00	50.60	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(34) Bromochloromethane ( )

3.035min (-0.008) 1.28ug/L m

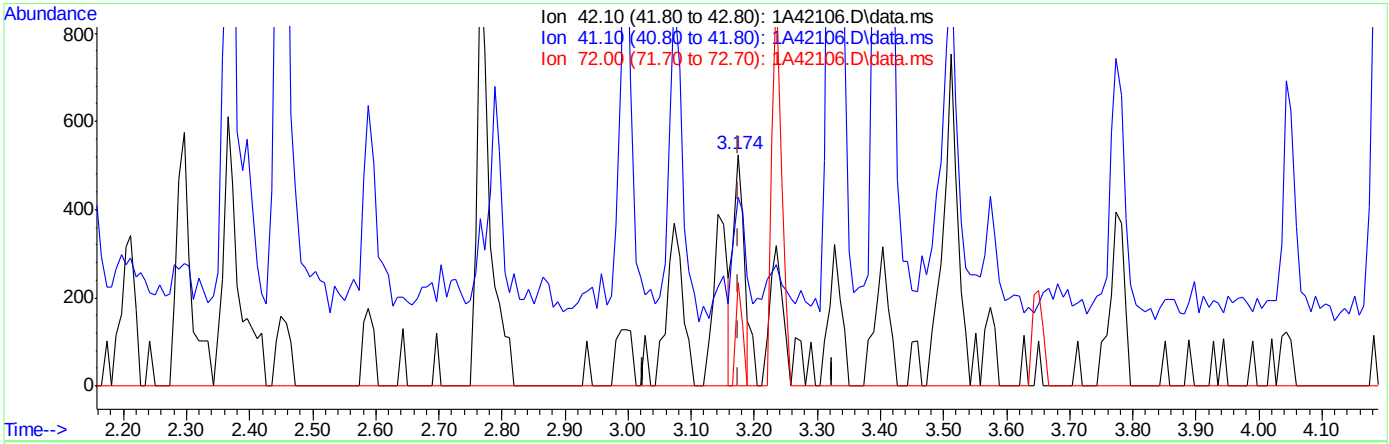
response 635

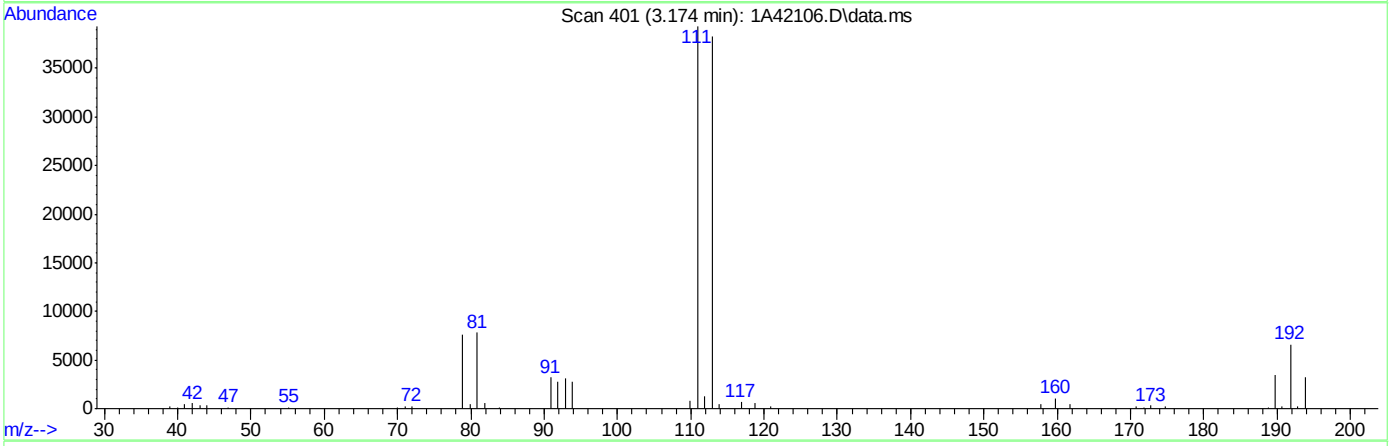
Ion	Exp%	Act%
127.90	100	100
49.00	171.80	146.58
129.90	141.60	124.77
51.00	50.60	57.86

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(38) Tetrahydrofuran

3.174min (-0.001) 0.97ug/L m

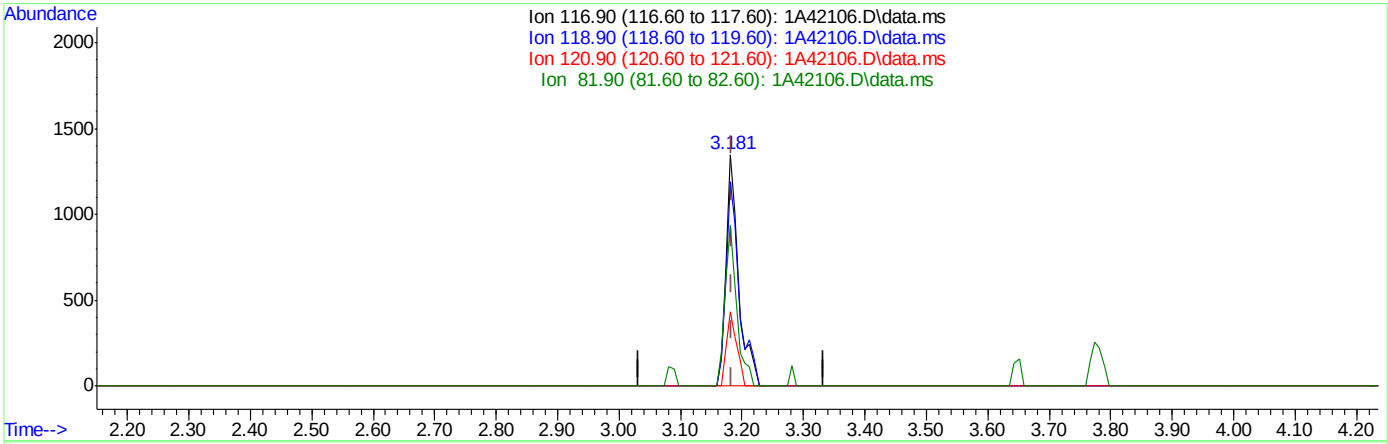
response 631

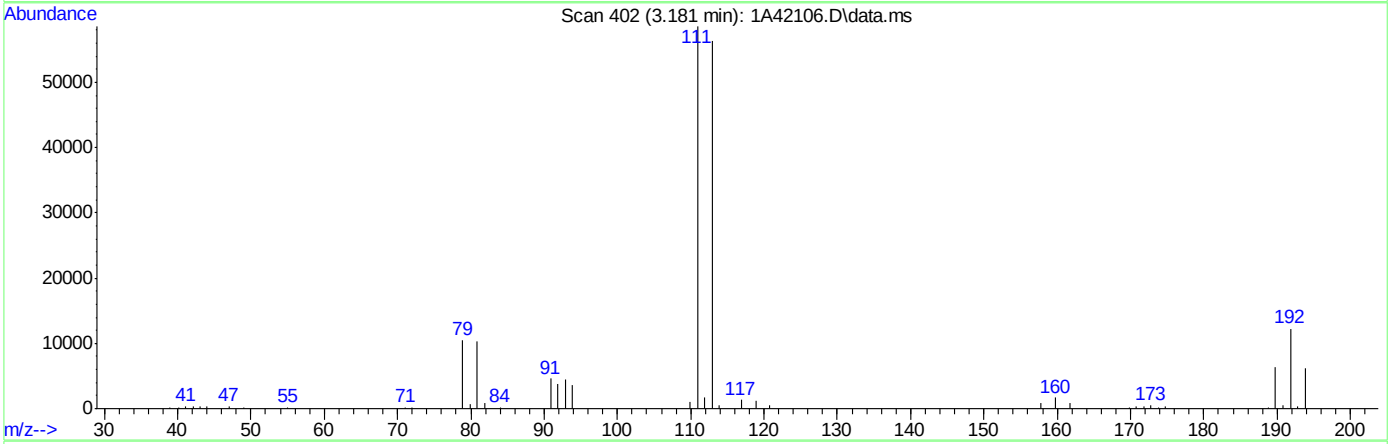
Ion	Exp%	Act%
42.10	100	100
41.10	59.00	81.52#
72.00	36.90	44.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (-0.002) 1.60ug/L

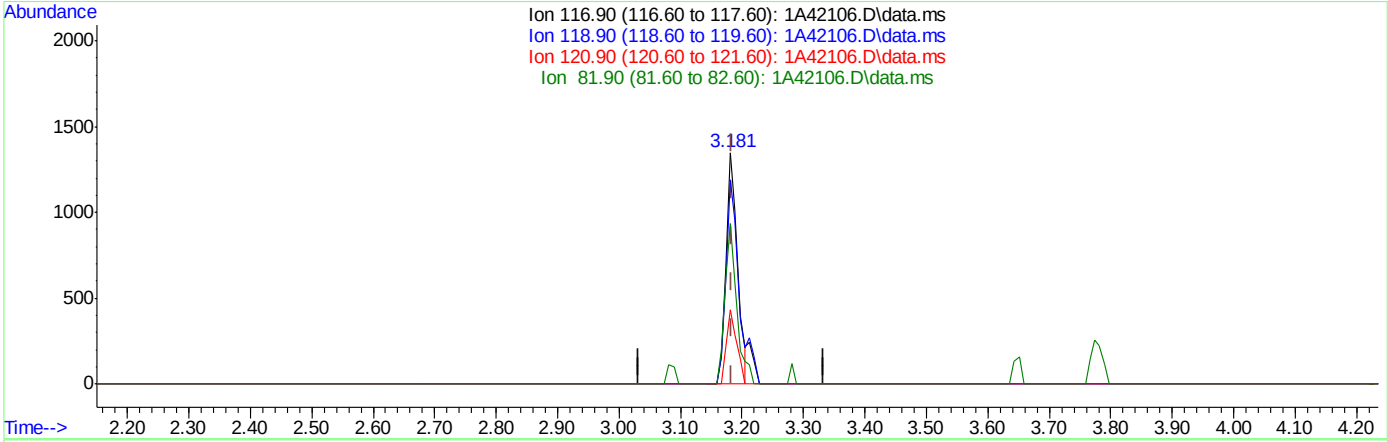
response 1938

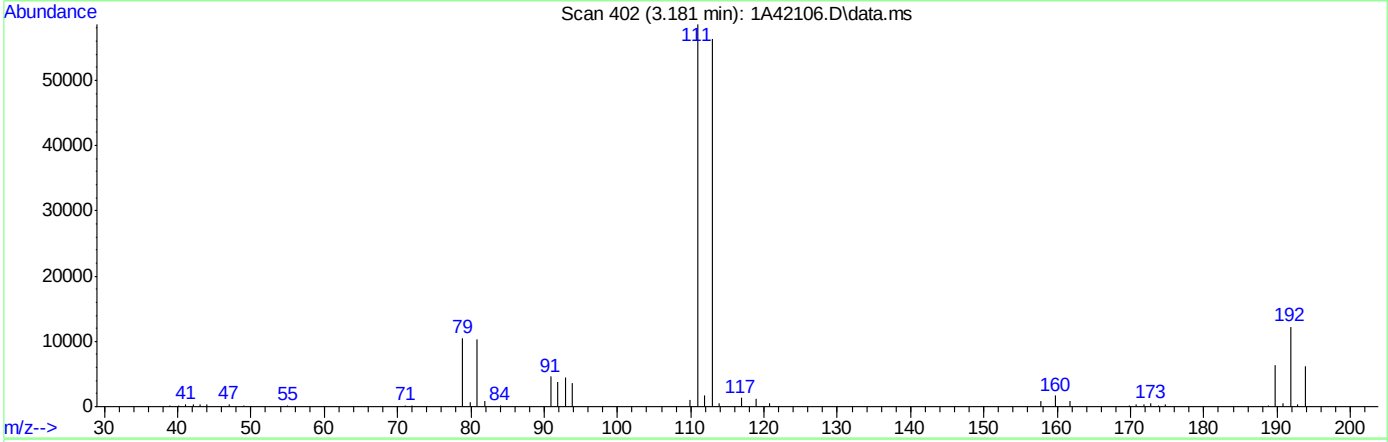
Ion	Exp%	Act%
116.90	100	100
118.90	88.40	88.07
120.90	29.50	32.32
81.90	25.50	69.61#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (-0.002) 1.46ug/L m

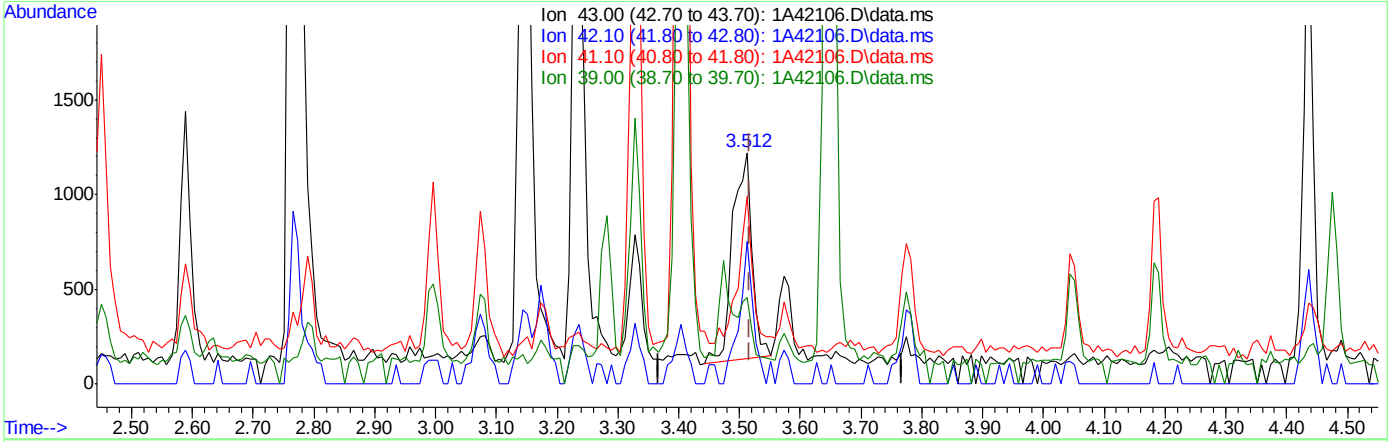
response 1761

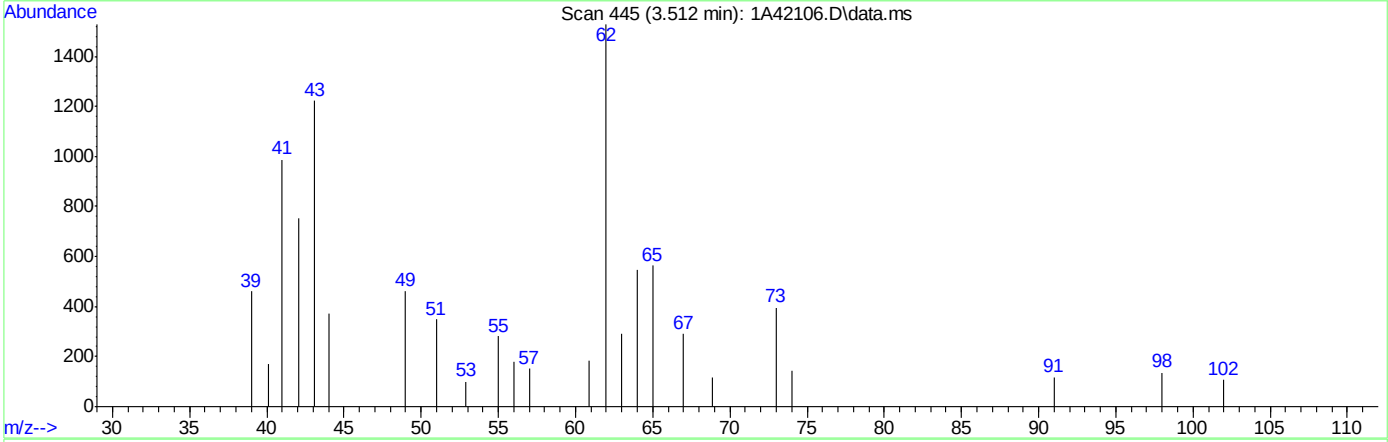
Ion	Exp%	Act%
116.90	100	100
118.90	88.40	88.07
120.90	29.50	32.32
81.90	25.50	69.61#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.005) 20.15ug/L

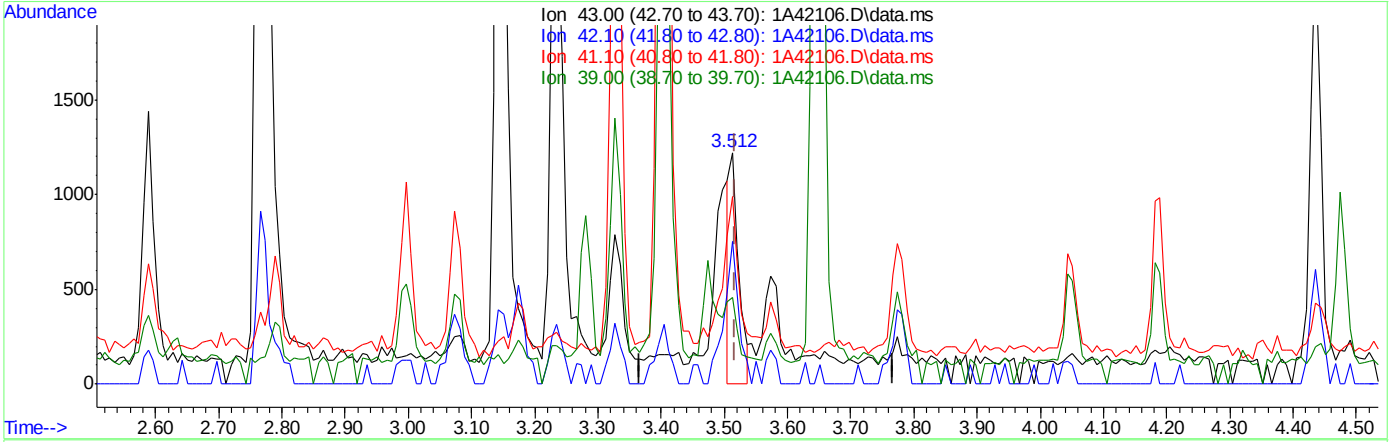
response 2405

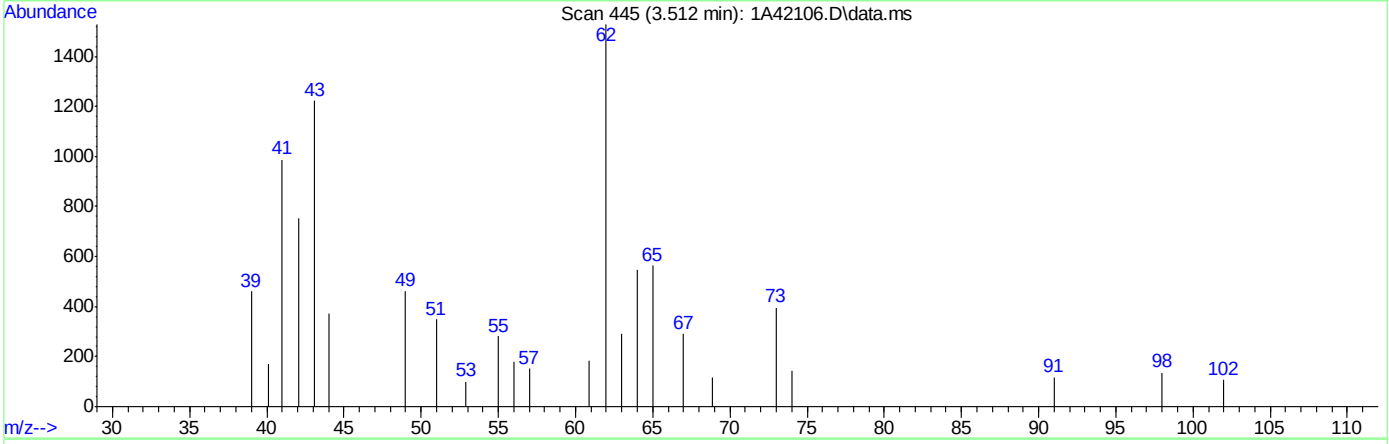
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	67.47
41.10	70.50	65.95
39.00	29.30	29.30

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.005) 9.84ug/L m

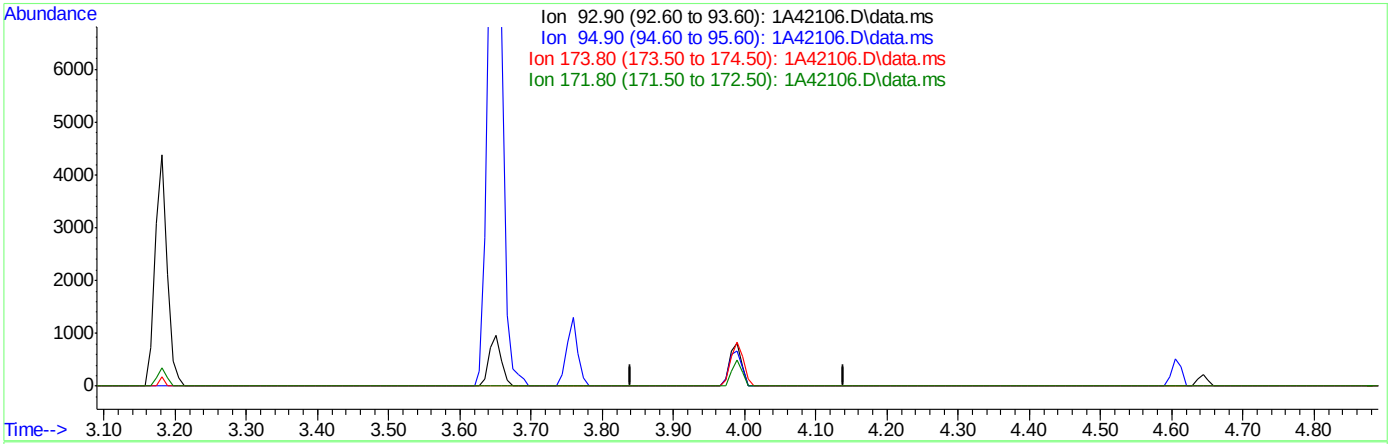
response 1175

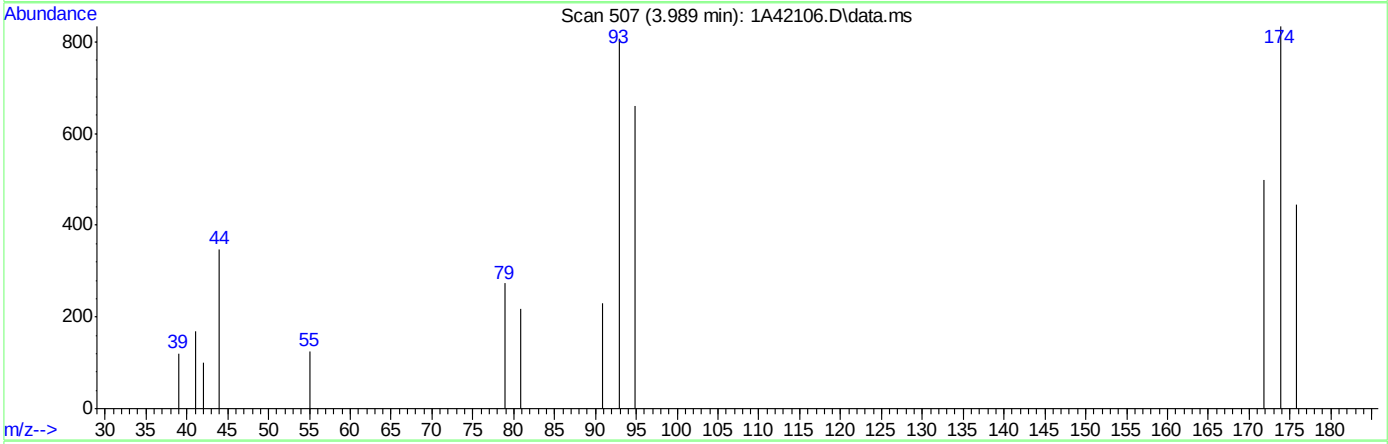
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	61.62
41.10	70.50	80.77
39.00	29.30	37.64

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(55) Dibromomethane

3.990min (-3.990) 0.00ug/L

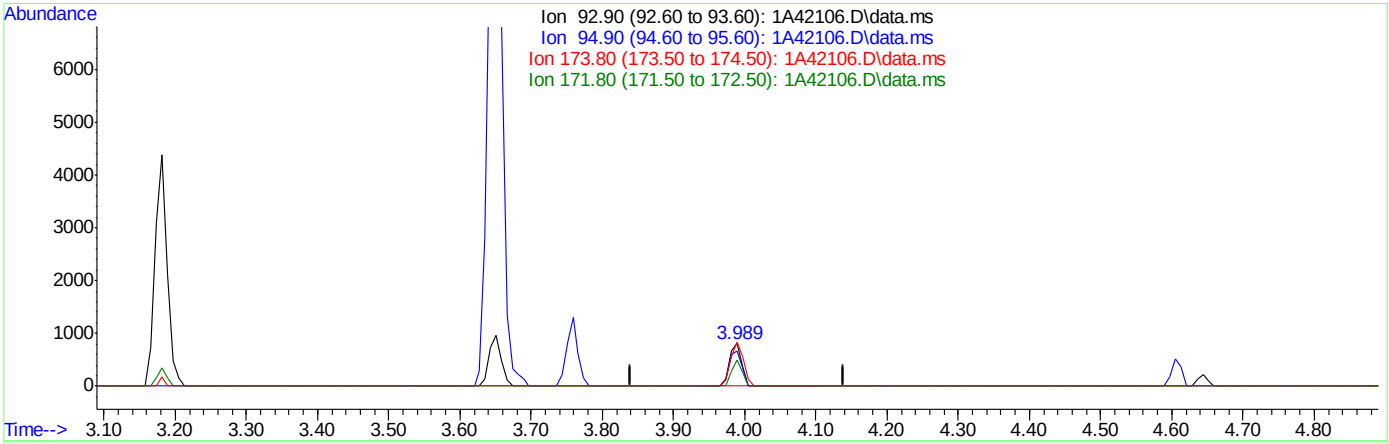
response 0

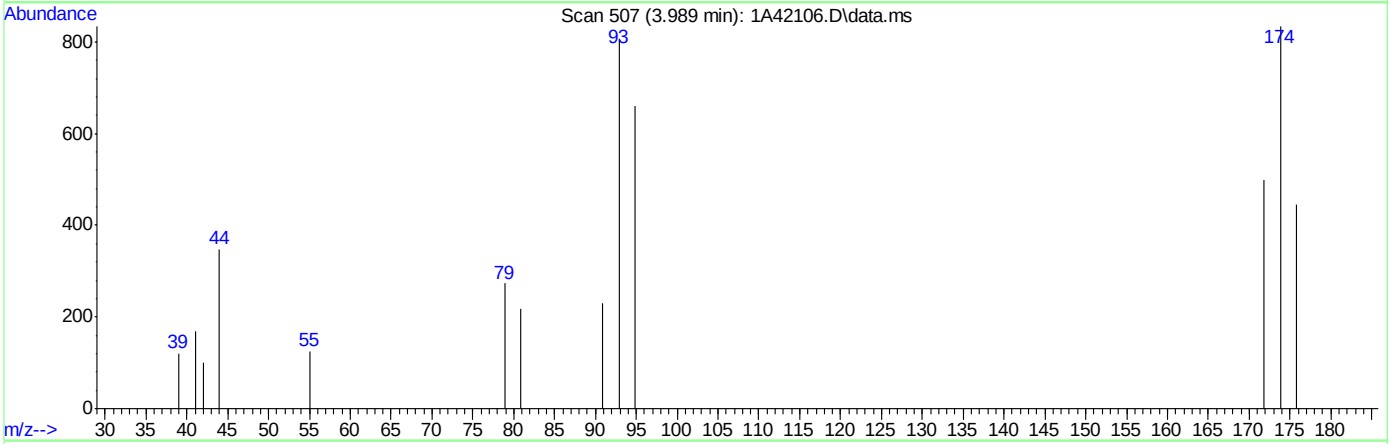
Ion	Exp%	Act%
92.90	100	0.00
94.90	81.60	0.00#
173.80	105.50	0.00#
171.80	56.60	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(55) Dibromomethane

3.989min (-0.001) 1.12ug/L m

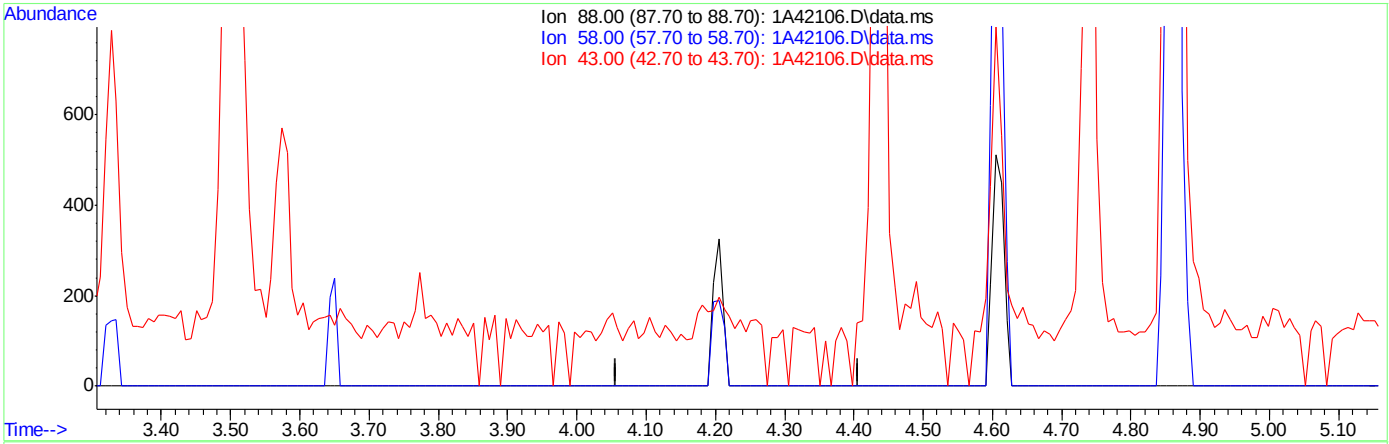
response 910

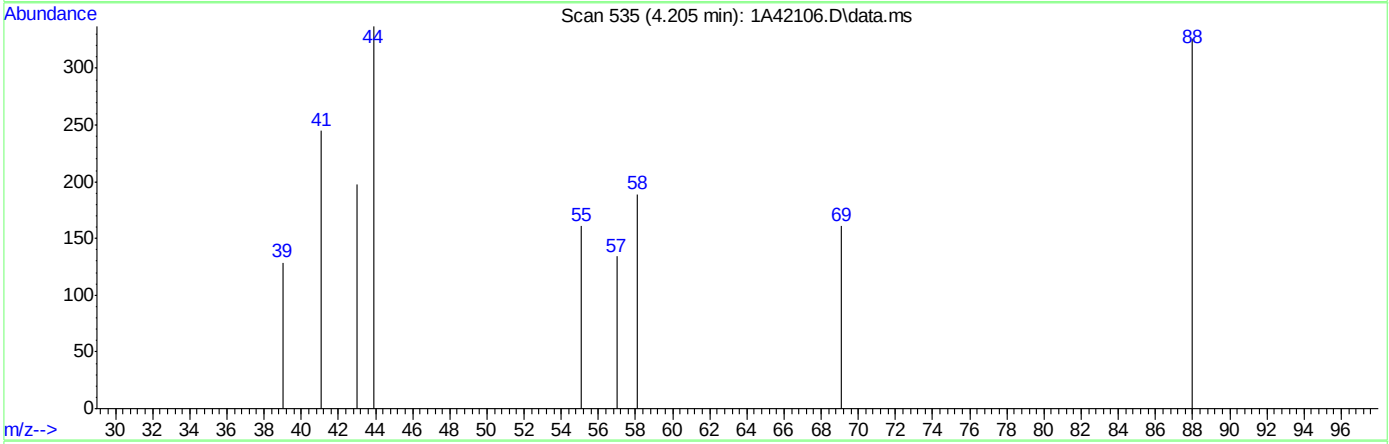
Ion	Exp%	Act%
92.90	100	100
94.90	81.60	81.78
173.80	105.50	103.35
171.80	56.60	61.71

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(59) 1,4-Dioxane

4.207min (-4.207) 0.00ug/L

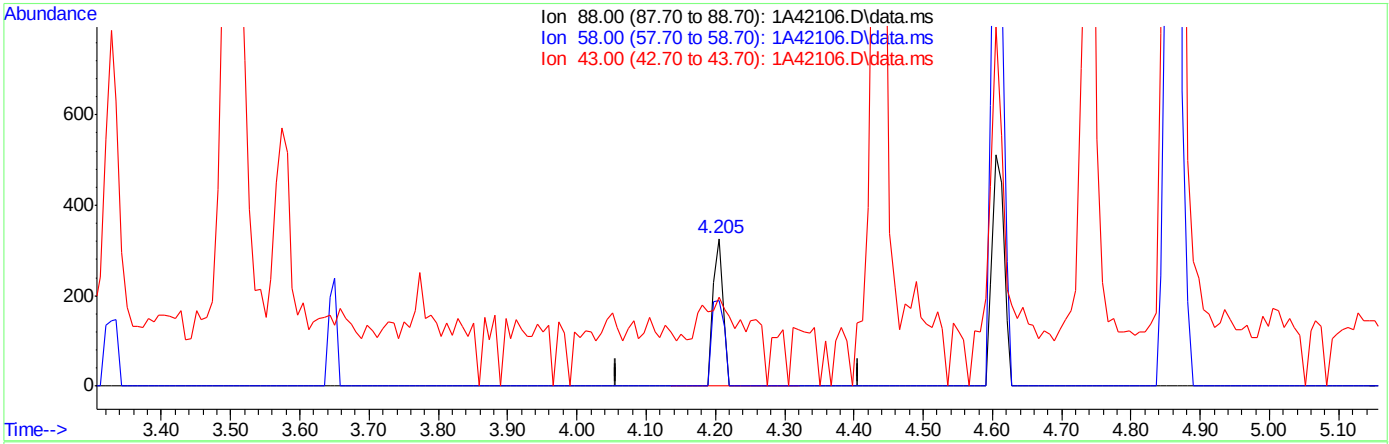
response 0

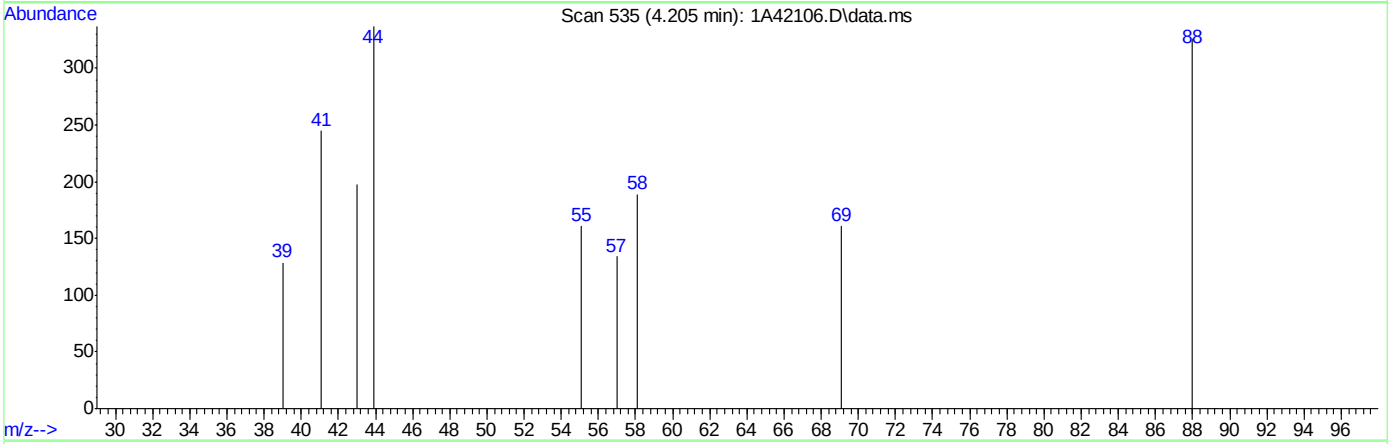
Ion	Exp%	Act%
88.00	100	0.00
58.00	68.30	0.00#
43.00	28.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(59) 1,4-Dioxane

4.205min (-0.002) 13.09ug/L m

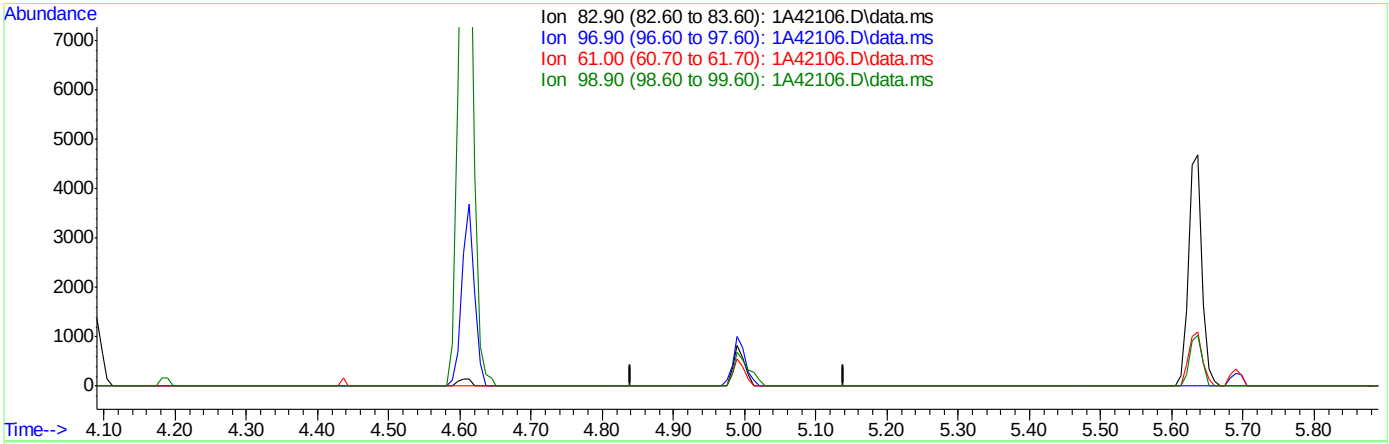
response 318

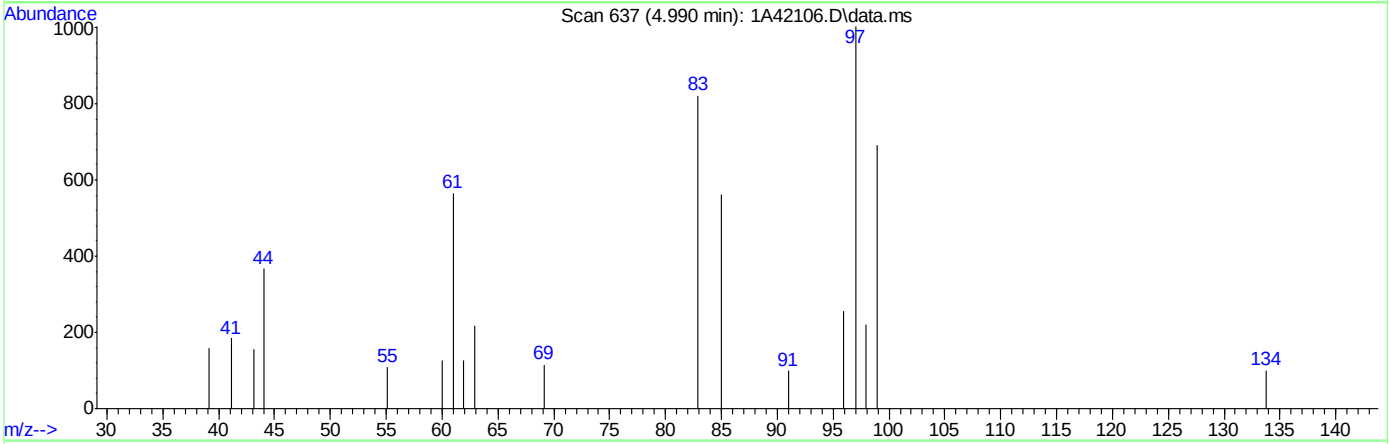
Ion	Exp%	Act%
88.00	100	100
58.00	68.30	57.98
43.00	28.90	60.74#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(70) 1,1,2-Trichloroethane ( )

4.990min (-4.990) 0.00ug/L

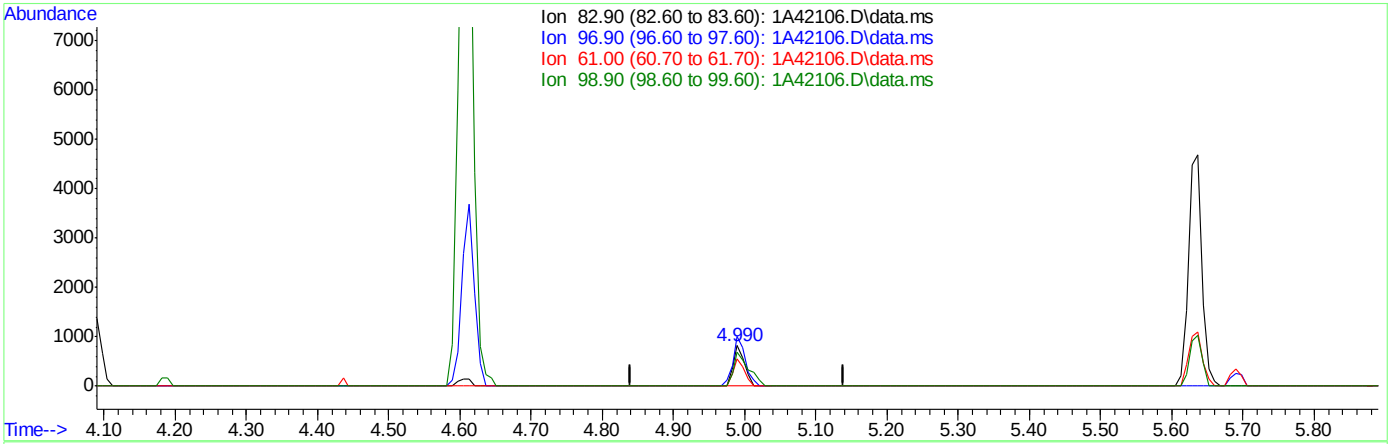
response 0

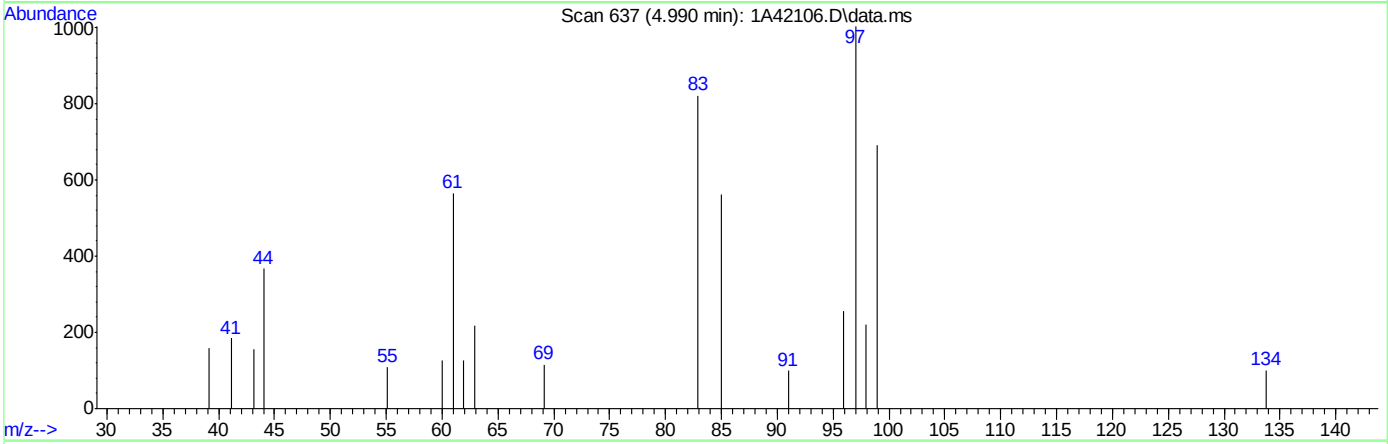
Ion	Exp%	Act%
82.90	100	0.00
96.90	121.80	0.00#
61.00	74.00	0.00#
98.90	76.90	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(70) 1,1,2-Trichloroethane ( )

4.990min (-0.000) 1.04ug/L m

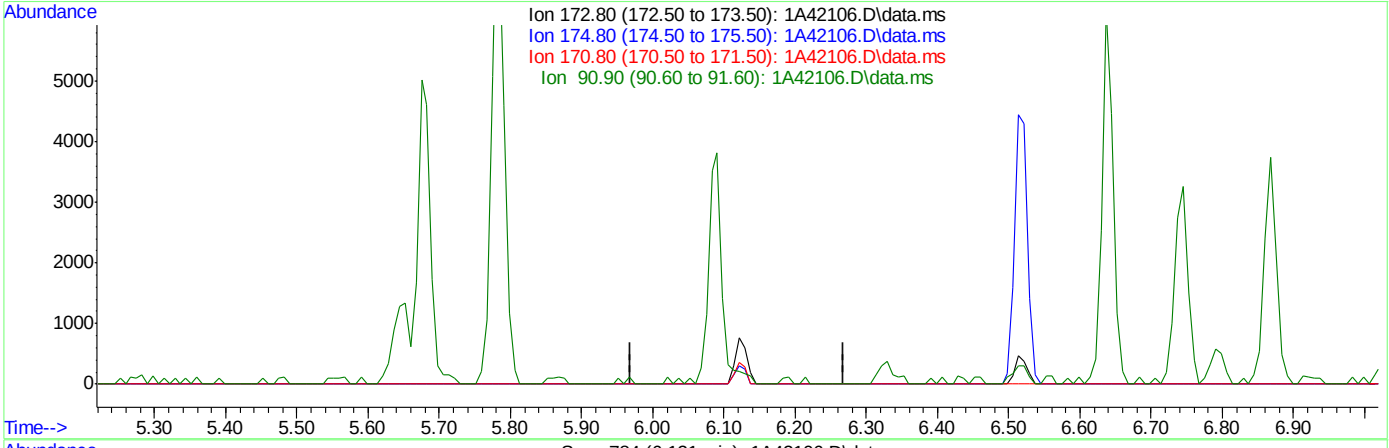
response 925

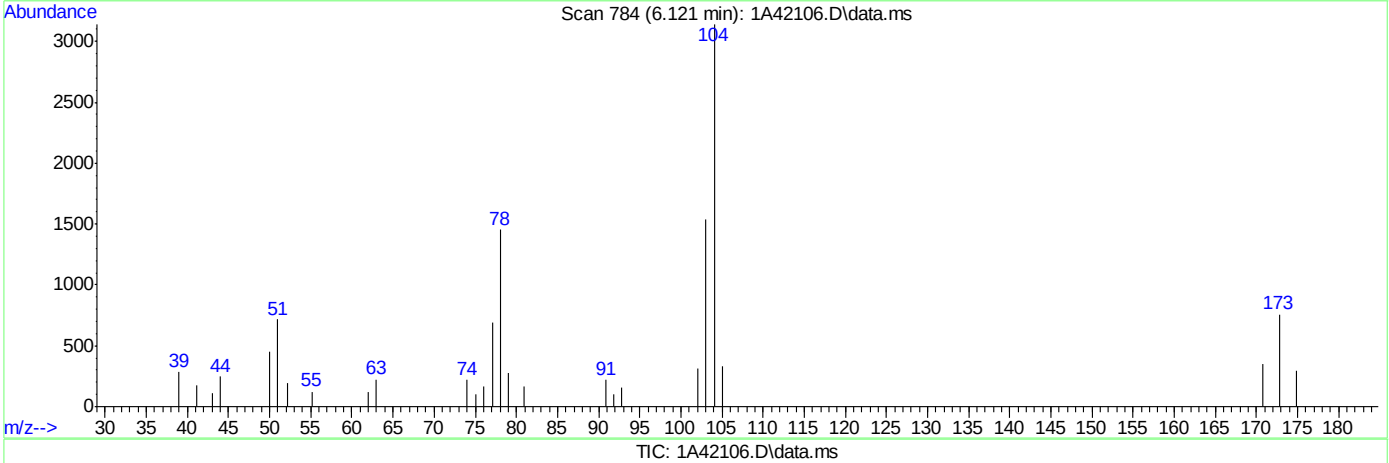
Ion	Exp%	Act%
82.90	100	100
96.90	121.80	122.02
61.00	74.00	68.73
98.90	76.90	84.06

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(83) Bromoform (P)

6.119min (-6.119) 0.00ug/L

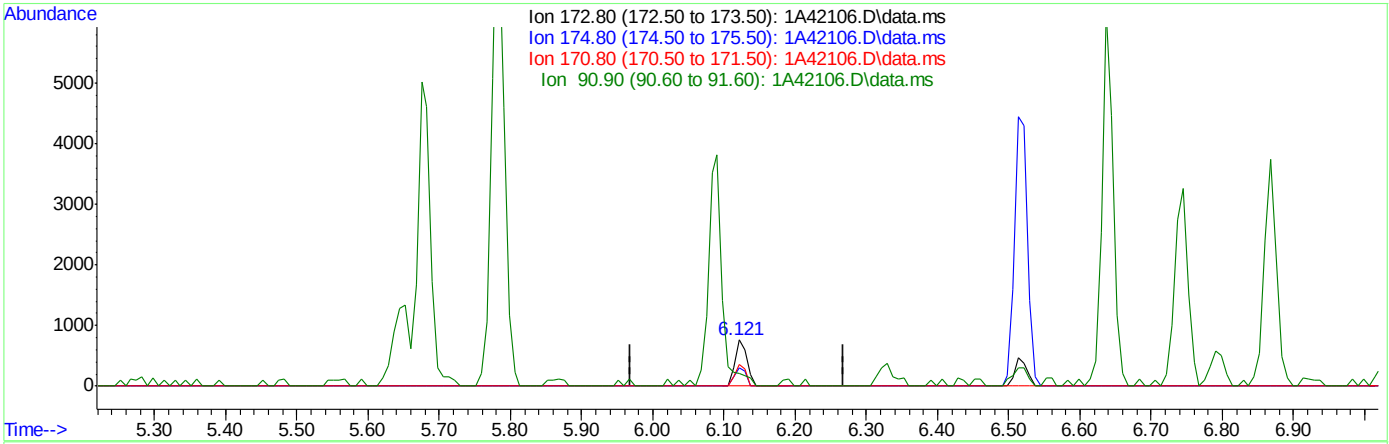
response 0

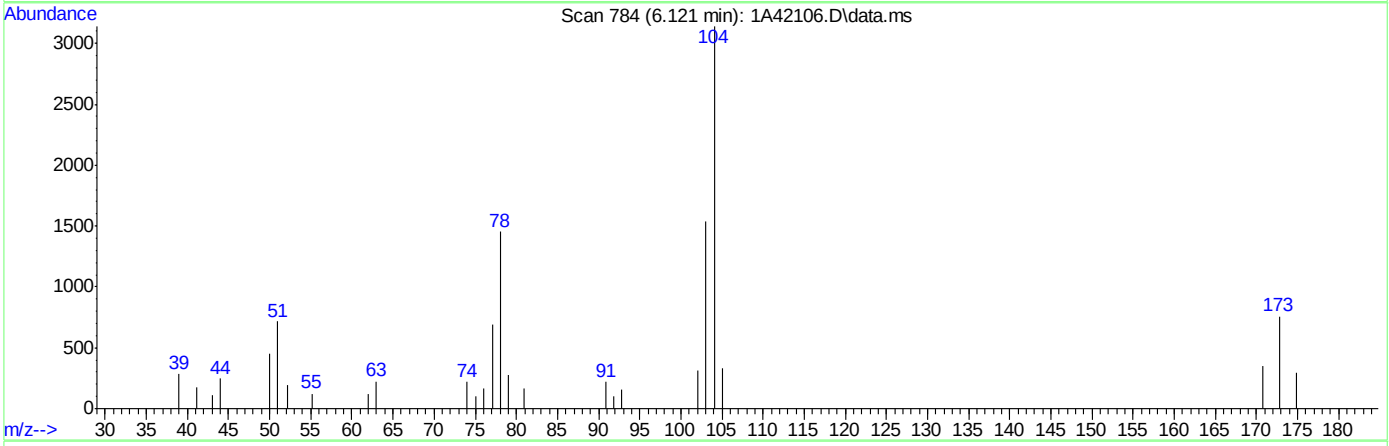
Ion	Exp%	Act%
172.80	100	0.00
174.80	45.60	0.00#
170.80	47.80	0.00#
90.90	23.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(83) Bromoform (P)

6.121min (+0.002) 1.07ug/L m

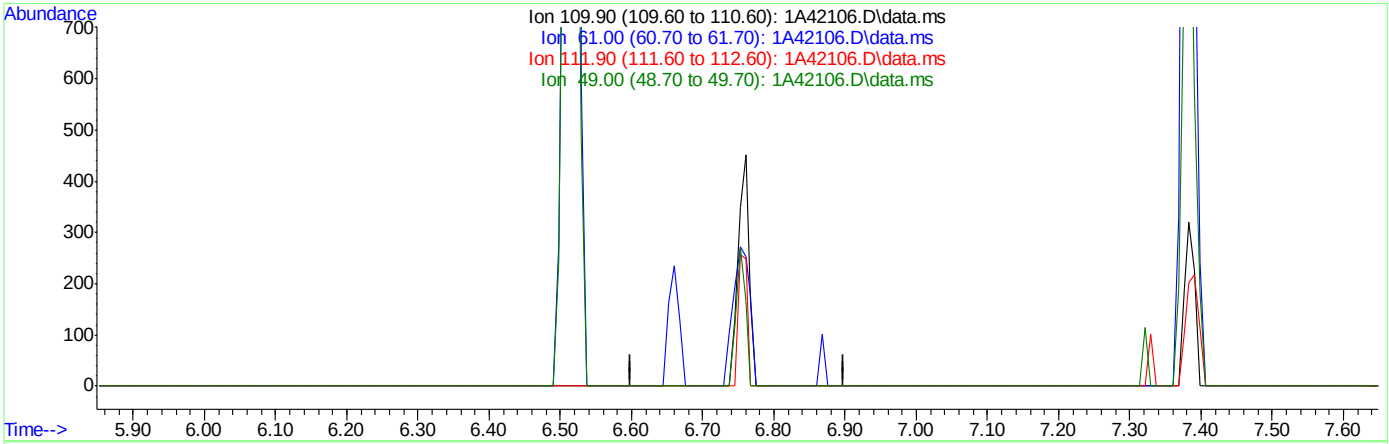
response 858

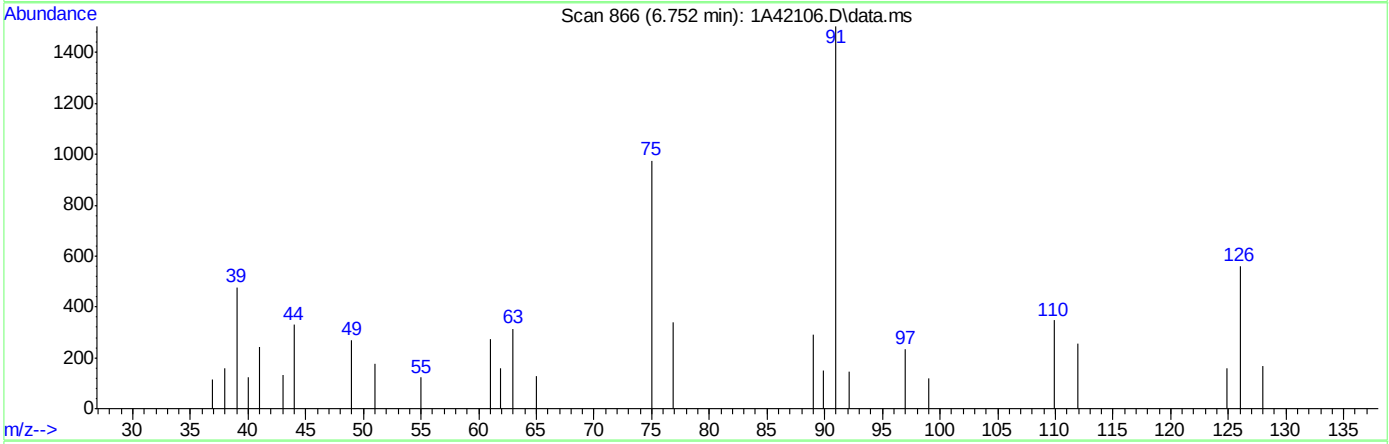
Ion	Exp%	Act%
172.80	100	100
174.80	45.60	39.45
170.80	47.80	46.31
90.90	23.00	28.63

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(94) 1,2,3-Trichloropropane ( )

6.749min (-6.749) 0.00ug/L

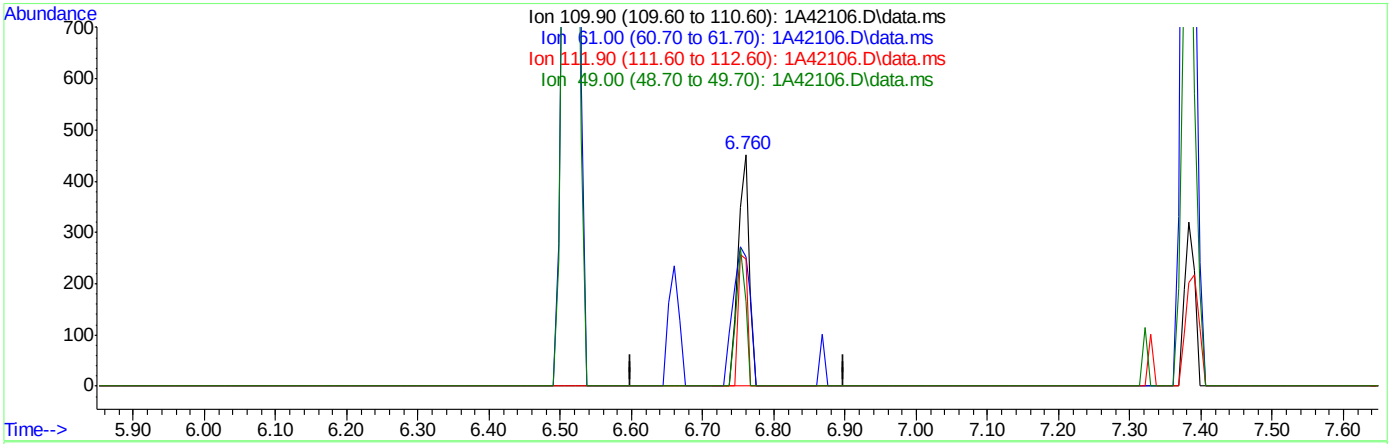
response 0

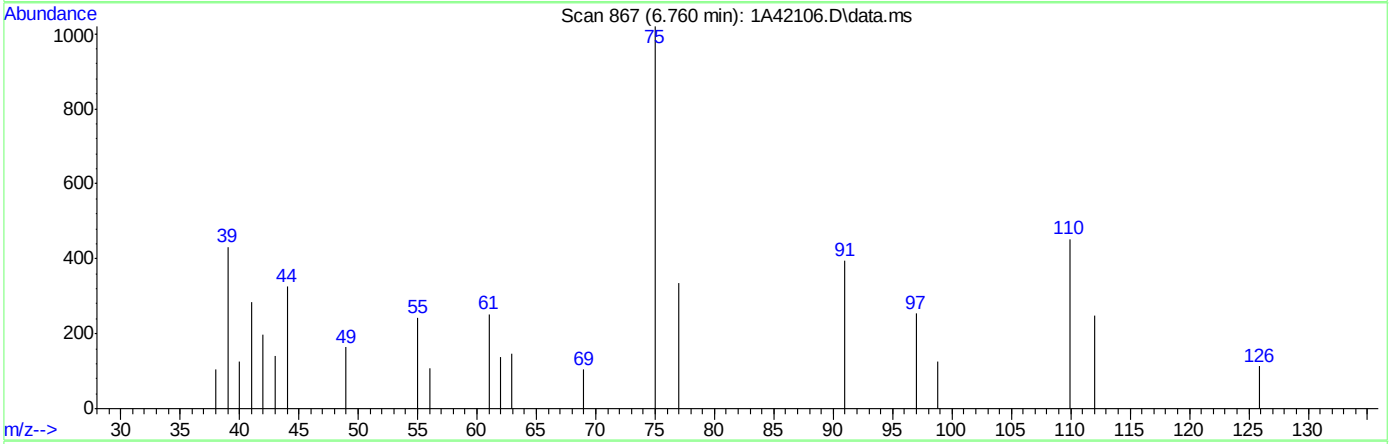
Ion	Exp%	Act%
109.90	100	0.00
61.00	68.00	0.00#
111.90	71.40	0.00#
49.00	76.30	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(94) 1,2,3-Trichloropropane ( )

6.760min (+0.011) 0.79ug/L m

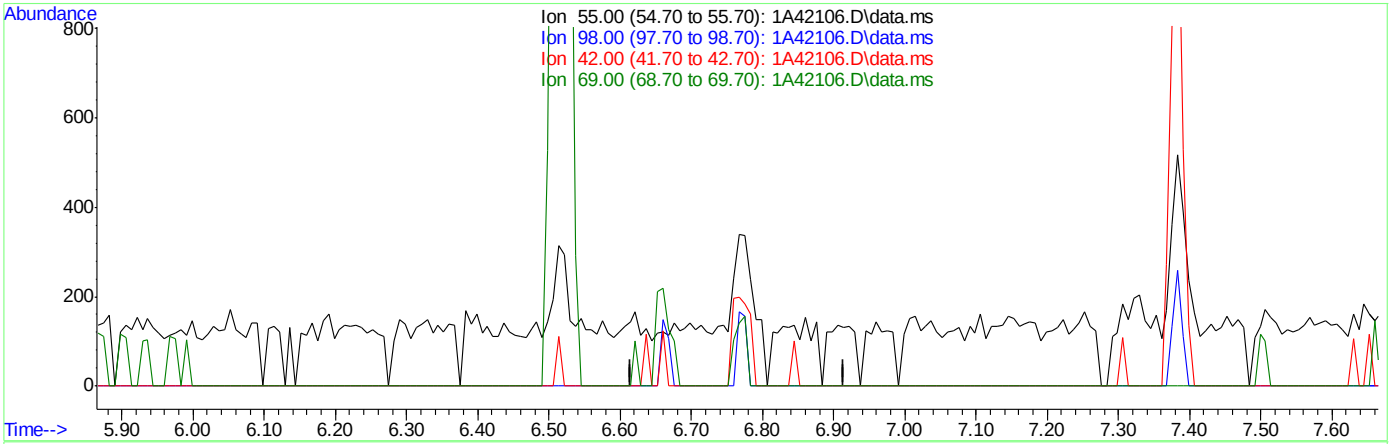
response 505

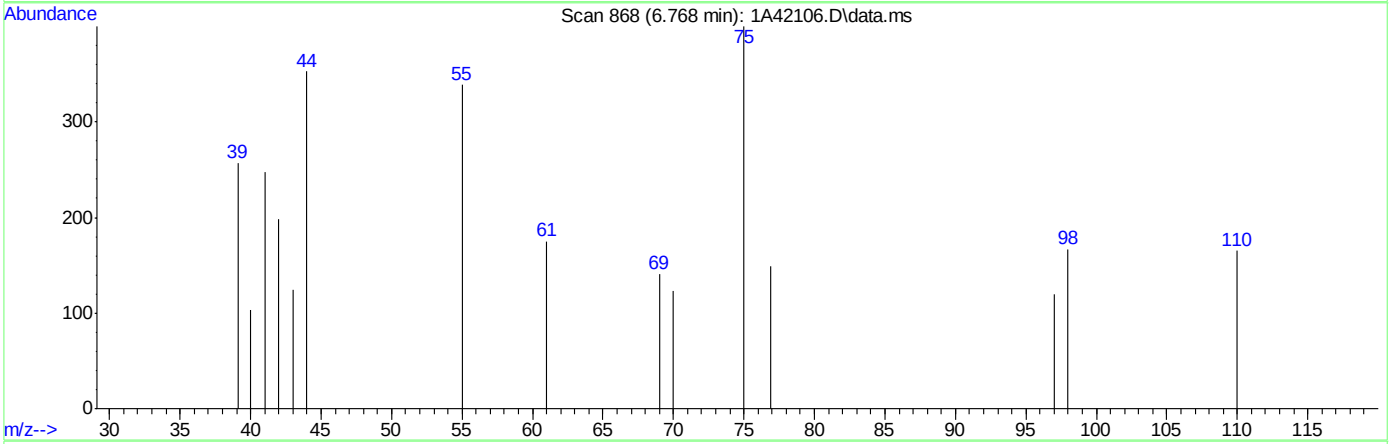
Ion	Exp%	Act%
109.90	100	100
61.00	68.00	55.75
111.90	71.40	55.09
49.00	76.30	36.28#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(95) Cyclohexanone

6.765min (-6.765) 0.00ug/L

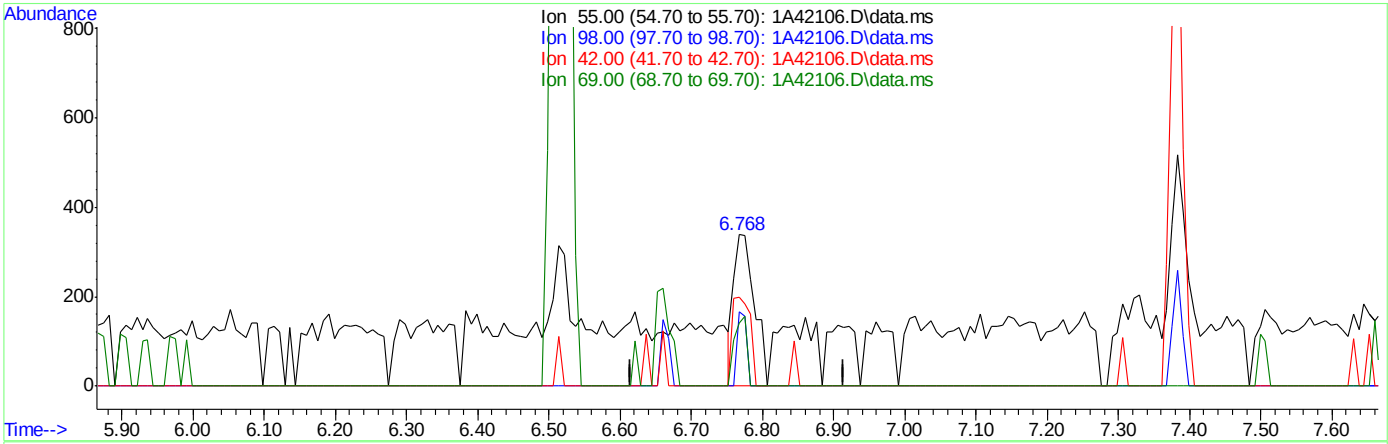
response 0

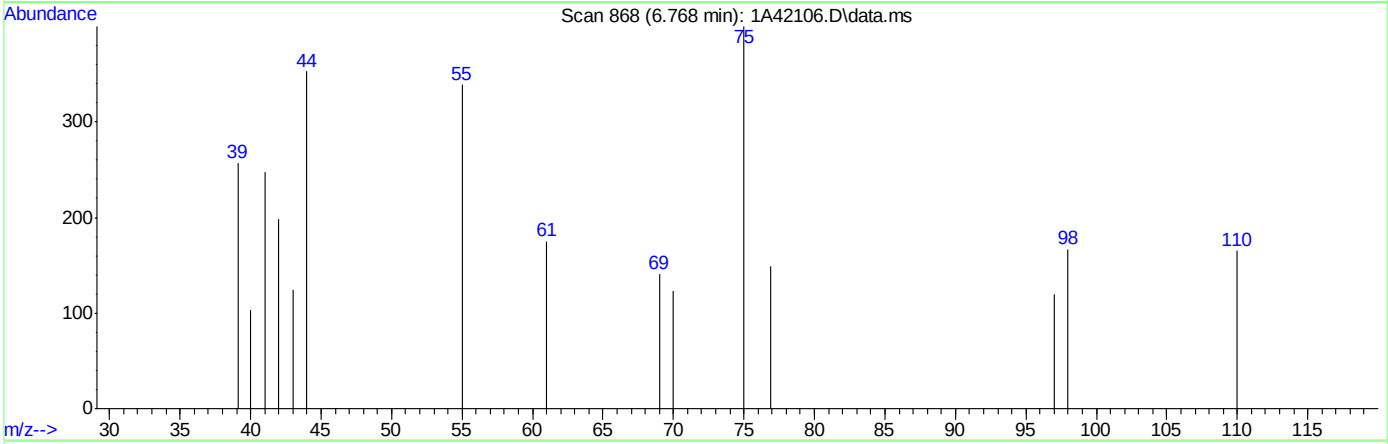
Ion	Exp%	Act%
55.00	100	0.00
98.00	40.70	0.00#
42.00	69.50	0.00#
69.00	27.70	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(95) Cyclohexanone

6.768min (+0.003) 6.36ug/L m

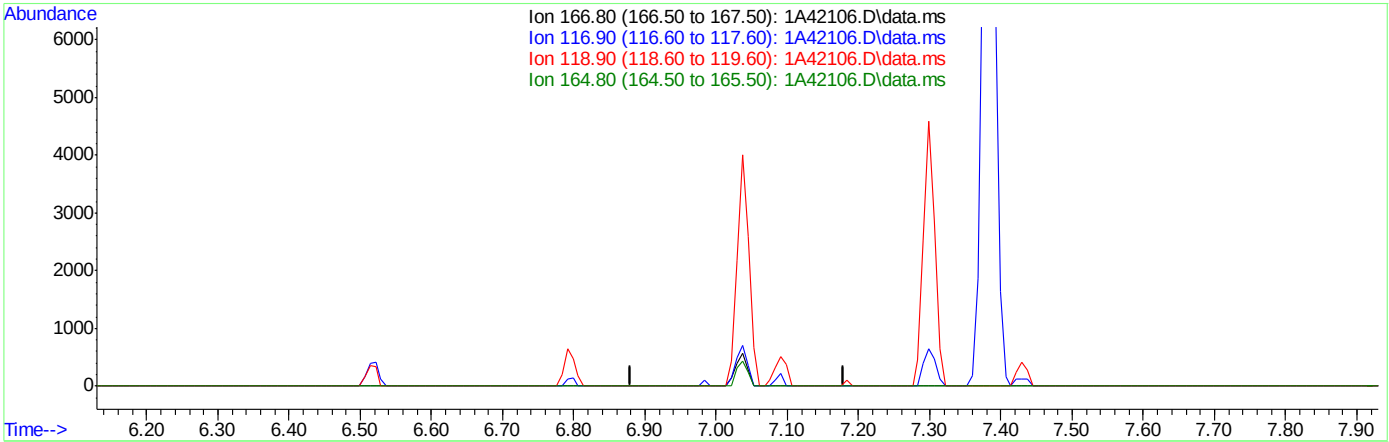
response 670

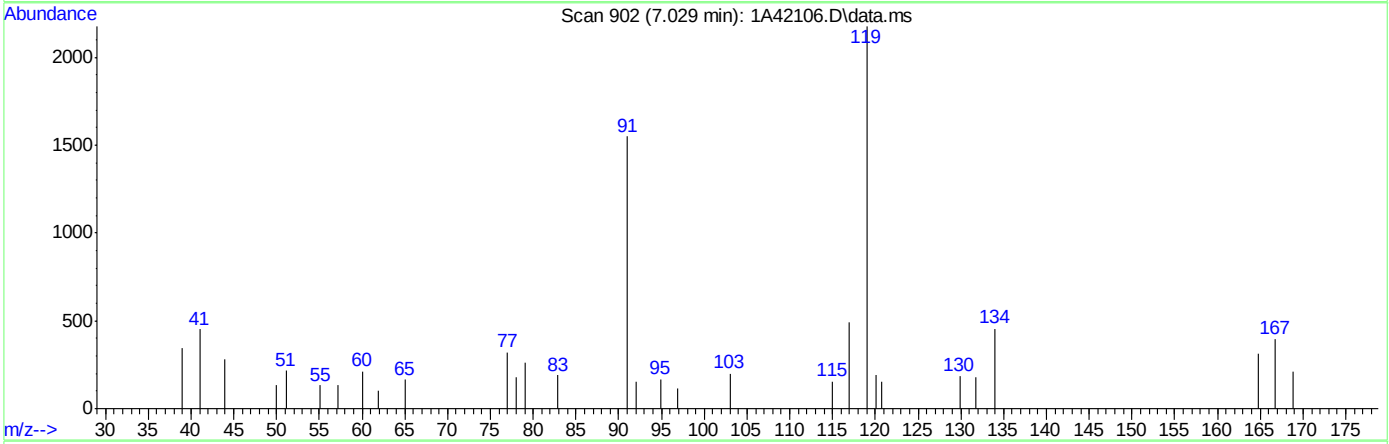
Ion	Exp%	Act%
55.00	100	100
98.00	40.70	49.26
42.00	69.50	58.41
69.00	27.70	41.59

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(99) Pentachloroethane ( )

7.030min (-7.030) 0.00ug/L

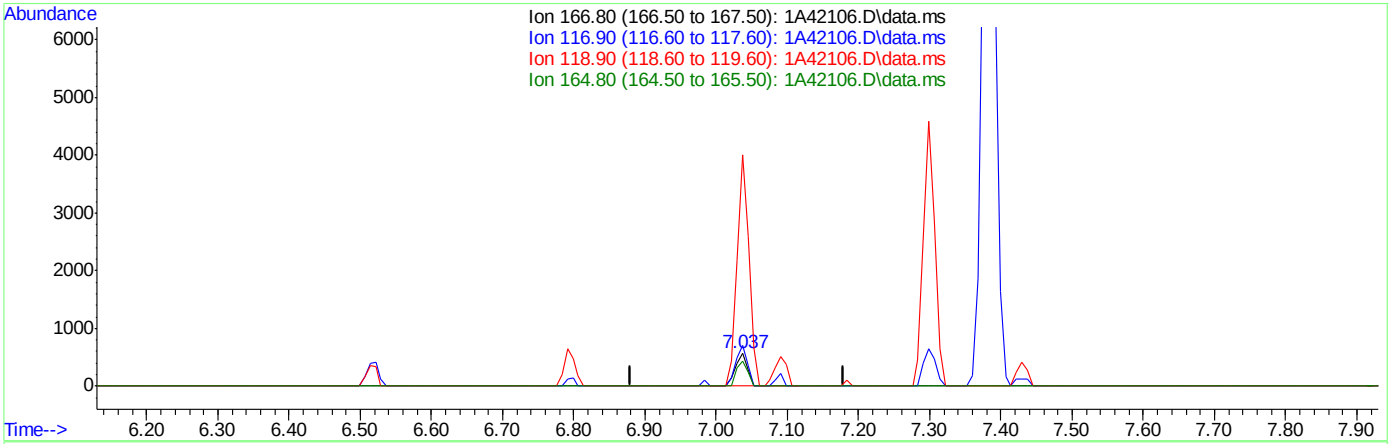
response 0

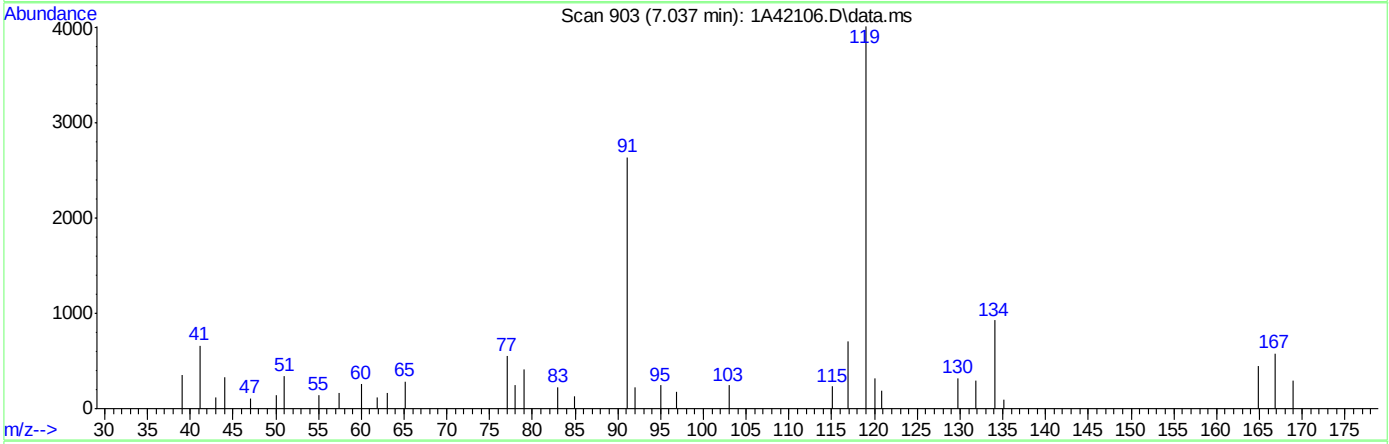
Ion	Exp%	Act%
166.80	100	0.00
116.90	121.70	0.00#
118.90	739.60	0.00#
164.80	75.90	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(99) Pentachloroethane ( )

7.037min (+0.007) 1.03ug/L m

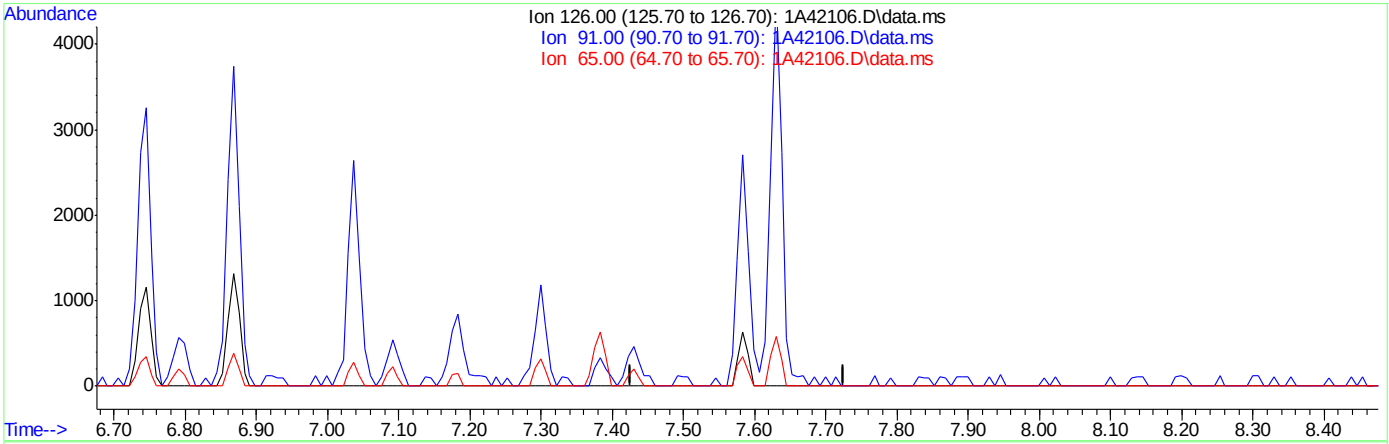
response 647

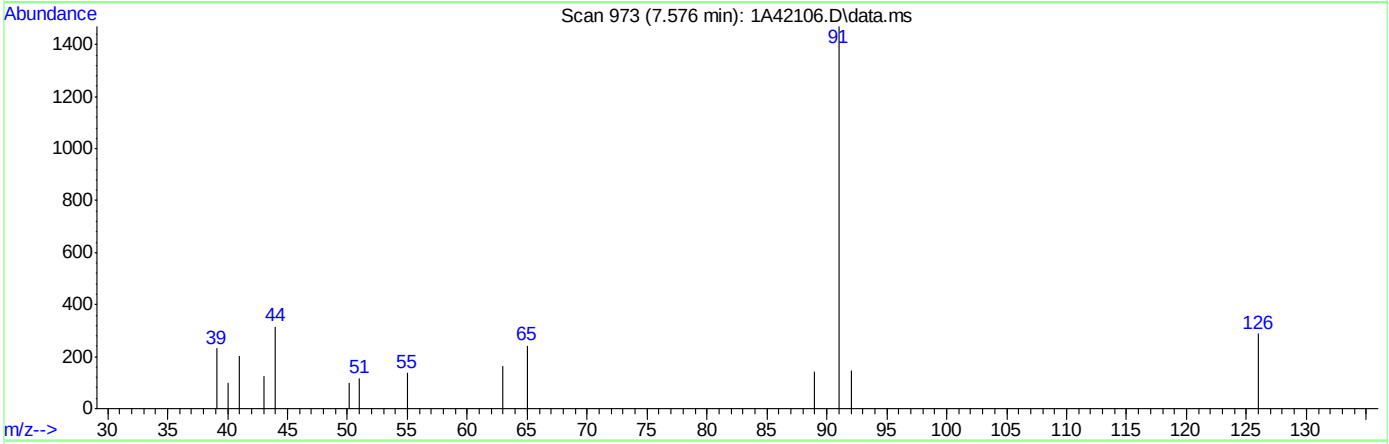
Ion	Exp%	Act%
166.80	100	100
116.90	121.70	122.53
118.90	739.60	695.49#
164.80	75.90	76.95

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(106) Benzyl Chloride

7.576min (-7.576) 0.00ug/L

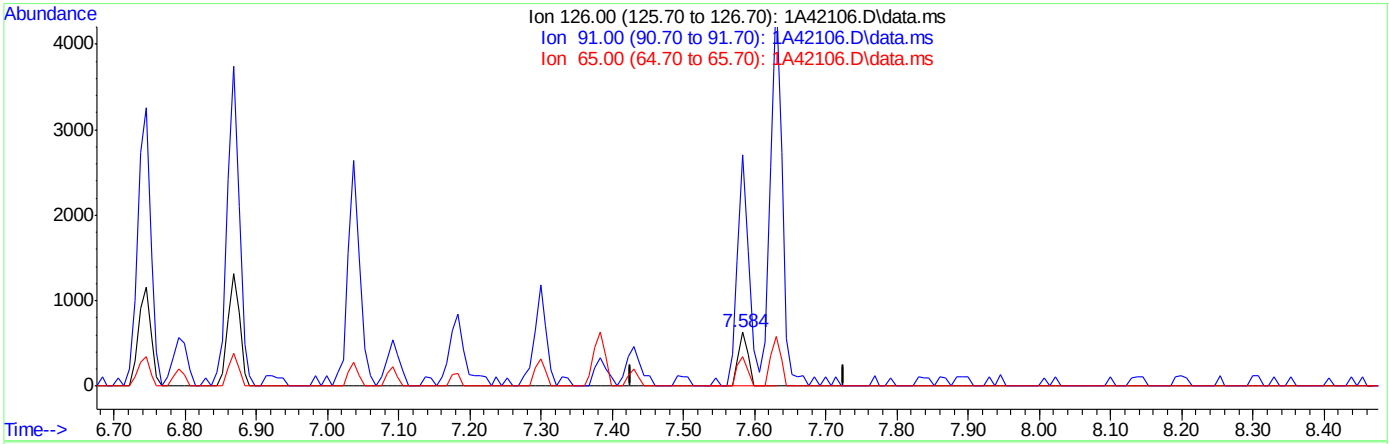
response 0

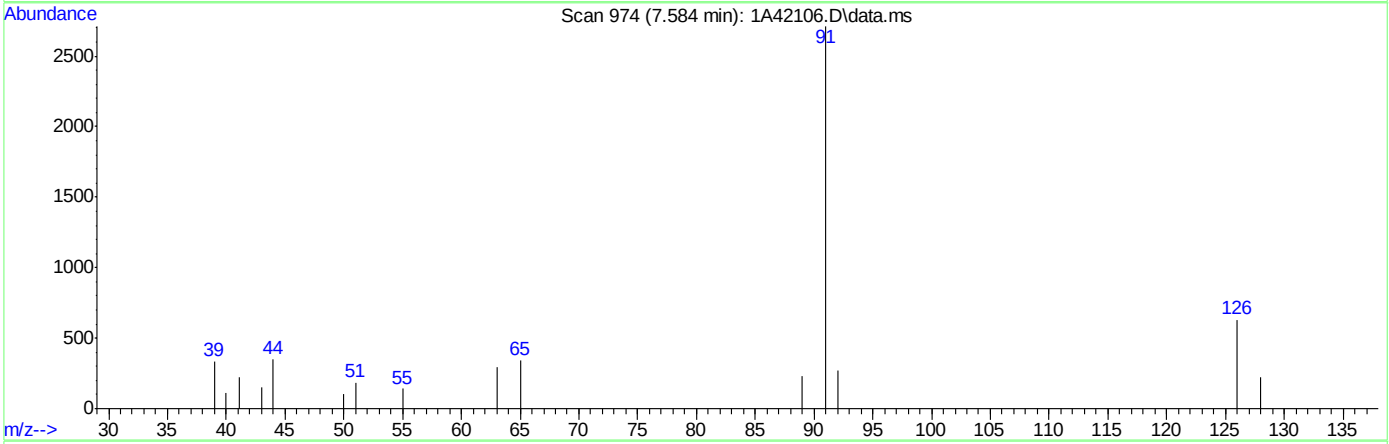
Ion	Exp%	Act%
126.00	100	0.00
91.00	384.20	0.00#
65.00	46.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(106) Benzyl Chloride

7.584min (+0.008) 1.38ug/L m

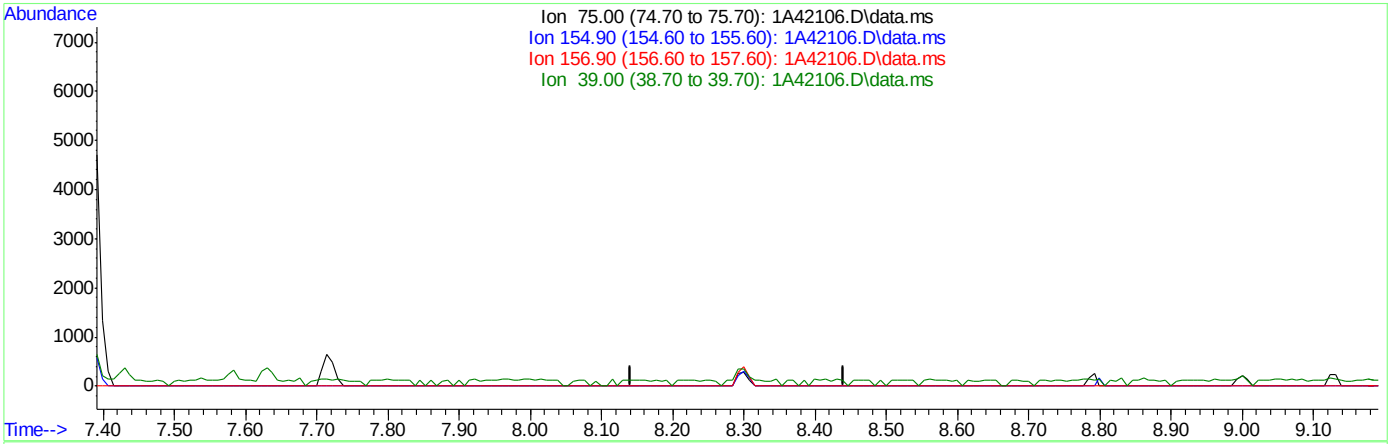
response 595

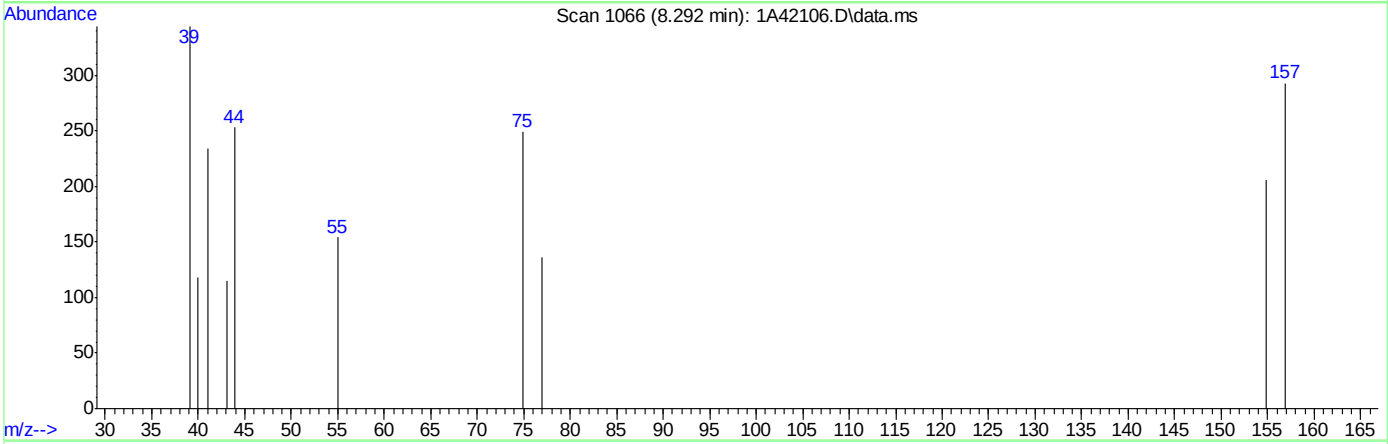
Ion	Exp%	Act%
126.00	100	100
91.00	384.20	430.32#
65.00	46.20	54.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(108) 1,2-Dibromo-3-Chloropropane

8.291min (-8.291) 0.00ug/L

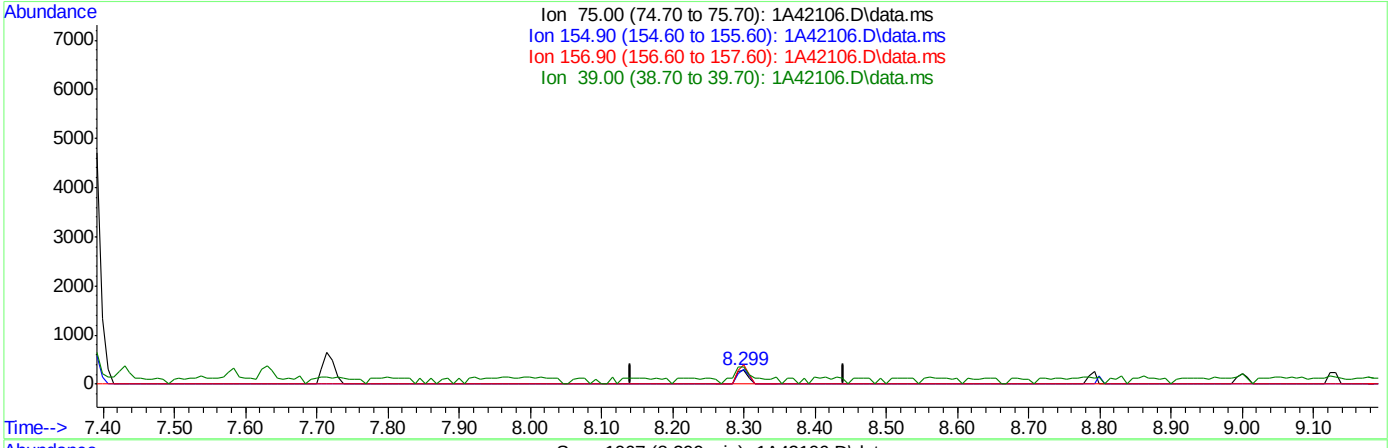
response 0

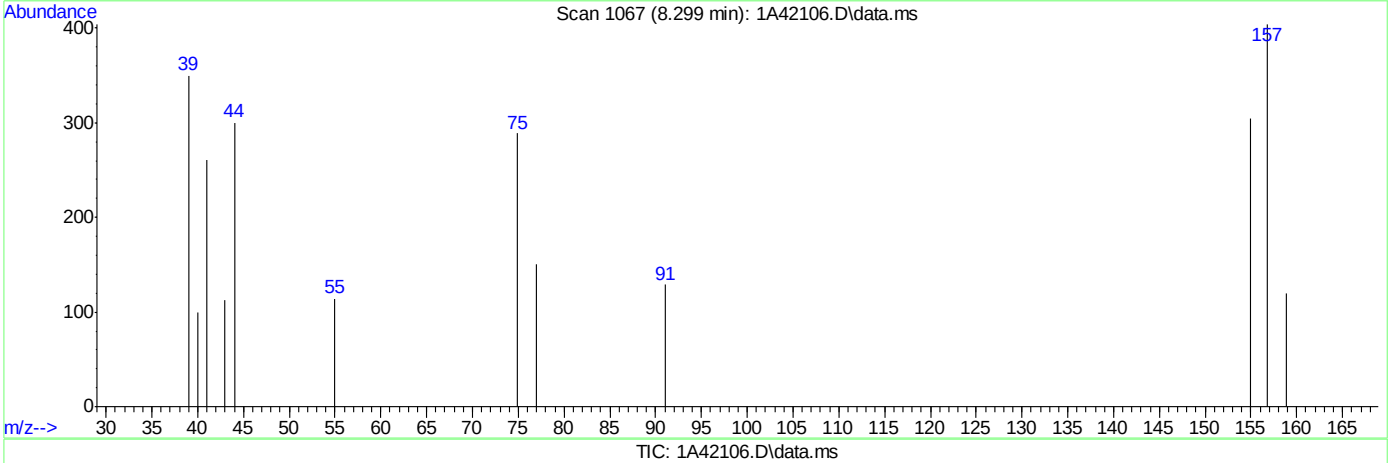
Ion	Exp%	Act%
75.00	100	0.00
154.90	102.70	0.00#
156.90	150.10	0.00#
39.00	108.50	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(108) 1,2-Dibromo-3-Chloropropane

8.299min (+0.008) 1.17ug/L m

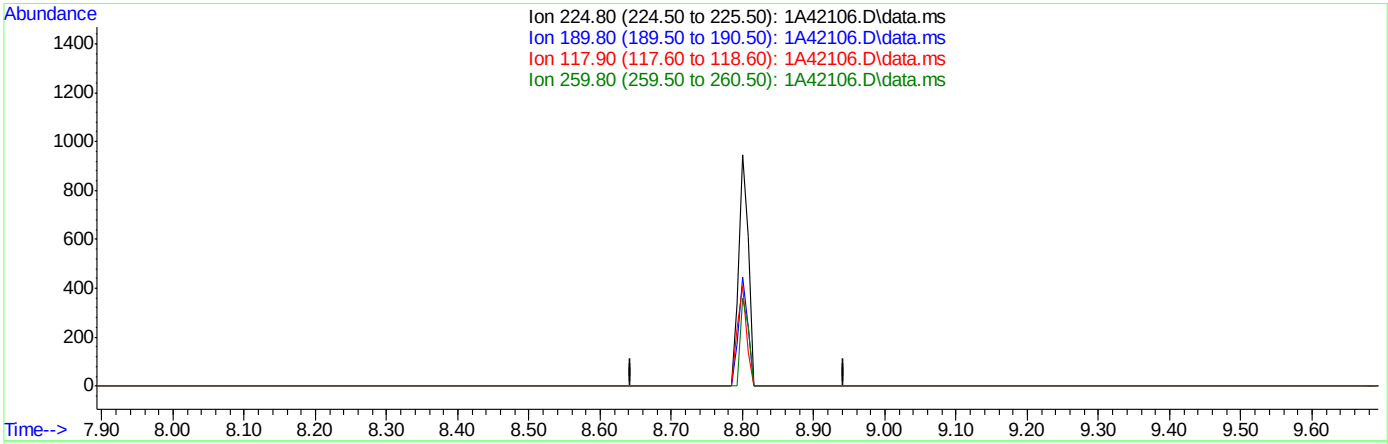
response 303

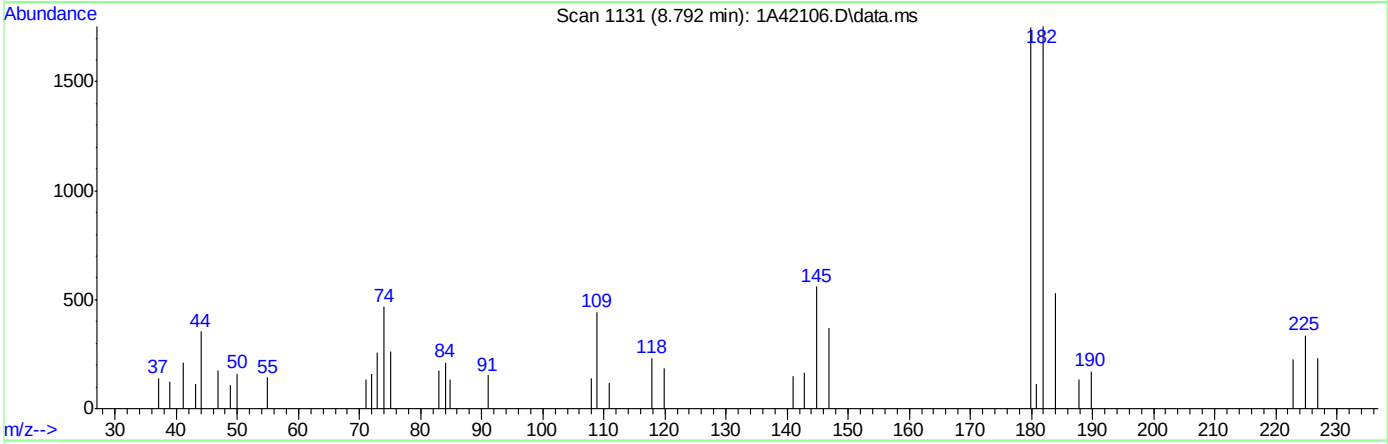
Ion	Exp%	Act%
75.00	100	100
154.90	102.70	105.54
156.90	150.10	139.79
39.00	108.50	121.11

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(109) Hexachlorobutadiene ( )

8.793min (-8.793) 0.00ug/L

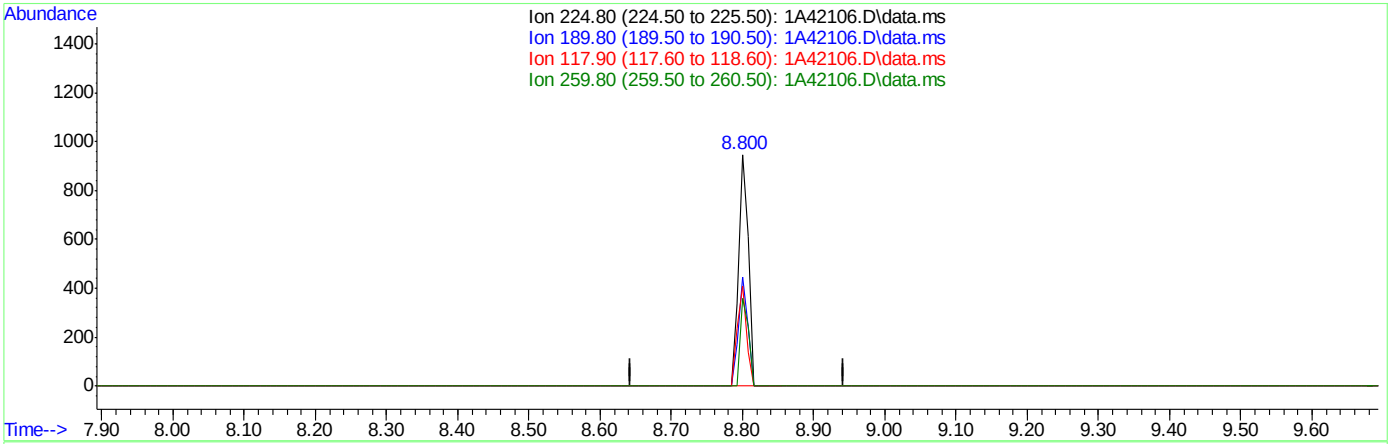
response 0

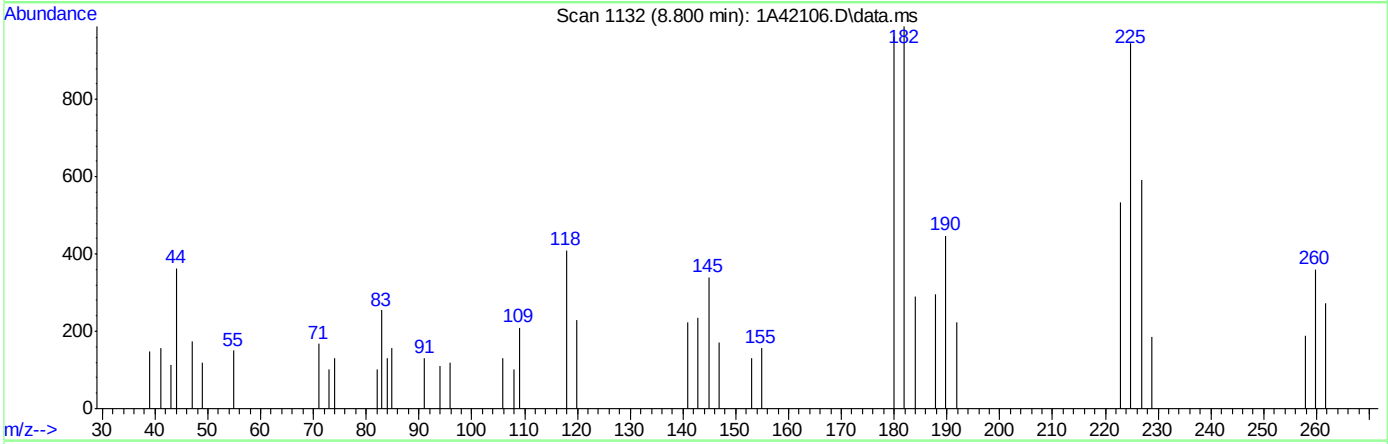
Ion	Exp%	Act%
224.80	100	0.00
189.80	47.40	0.00#
117.90	47.10	0.00#
259.80	26.80	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(109) Hexachlorobutadiene ( )

8.800min (+0.007) 1.41ug/L m

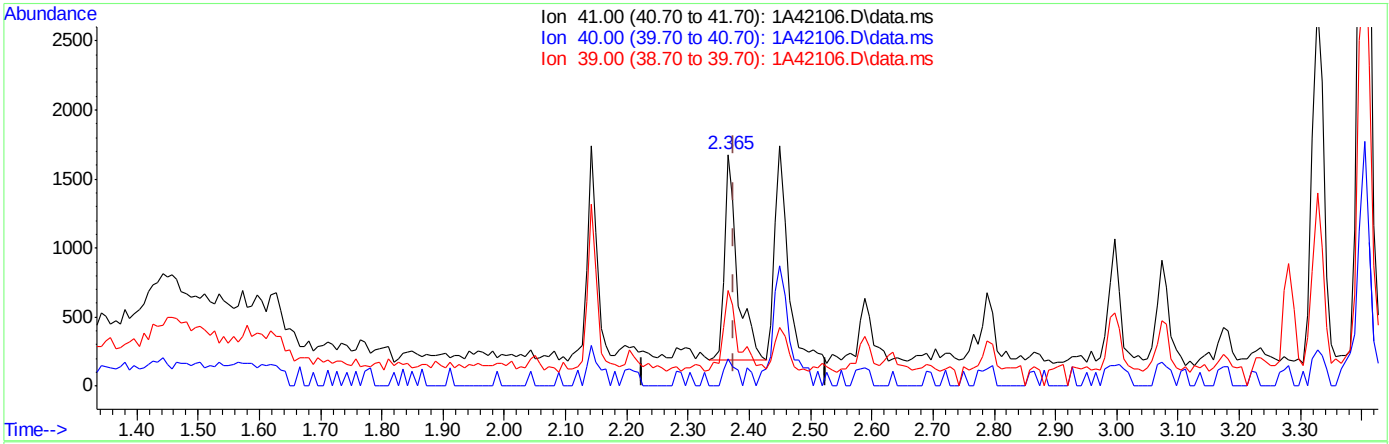
response 874

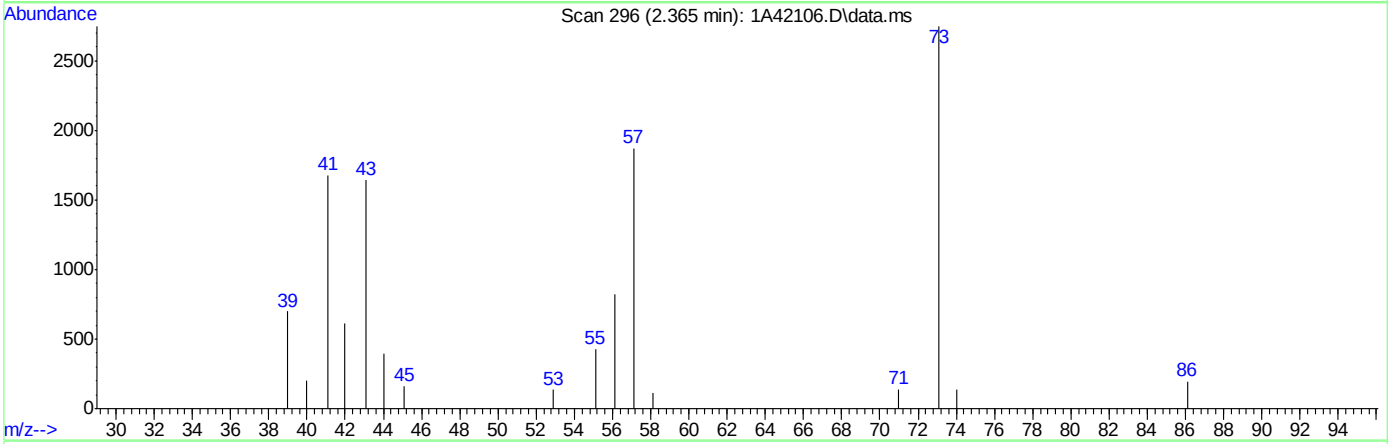
Ion	Exp%	Act%
224.80	100	100
189.80	47.40	47.20
117.90	47.10	43.29
259.80	26.80	38.01

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:29:25 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(24) Acetonitrile

2.365min (-0.011) 11.27ug/L

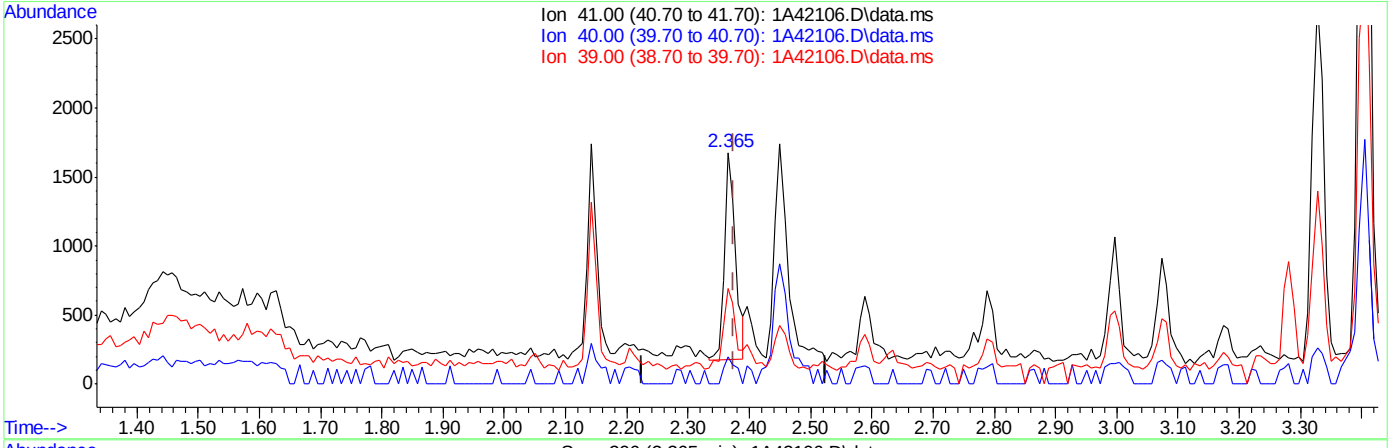
response 2177

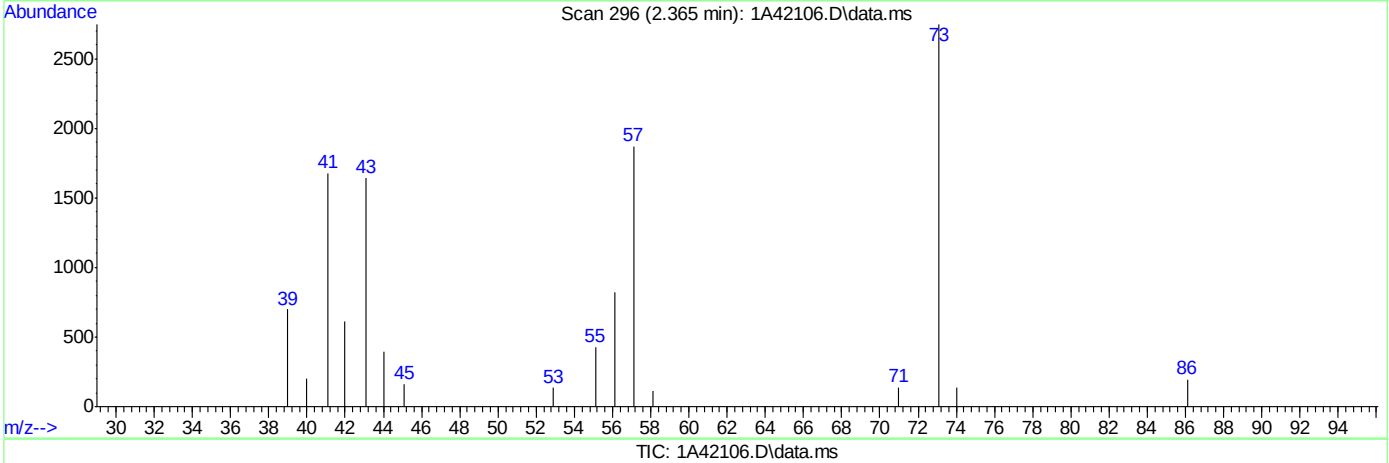
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	13.35
39.00	39.30	39.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:29:25 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(24) Acetonitrile

2.365min (-0.011) 9.76ug/L m

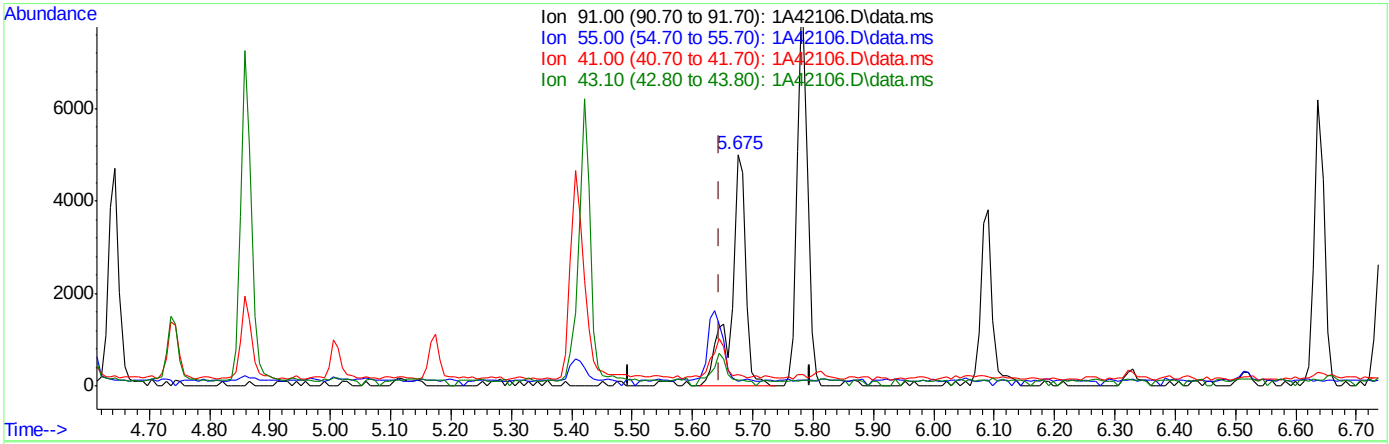
response 1884

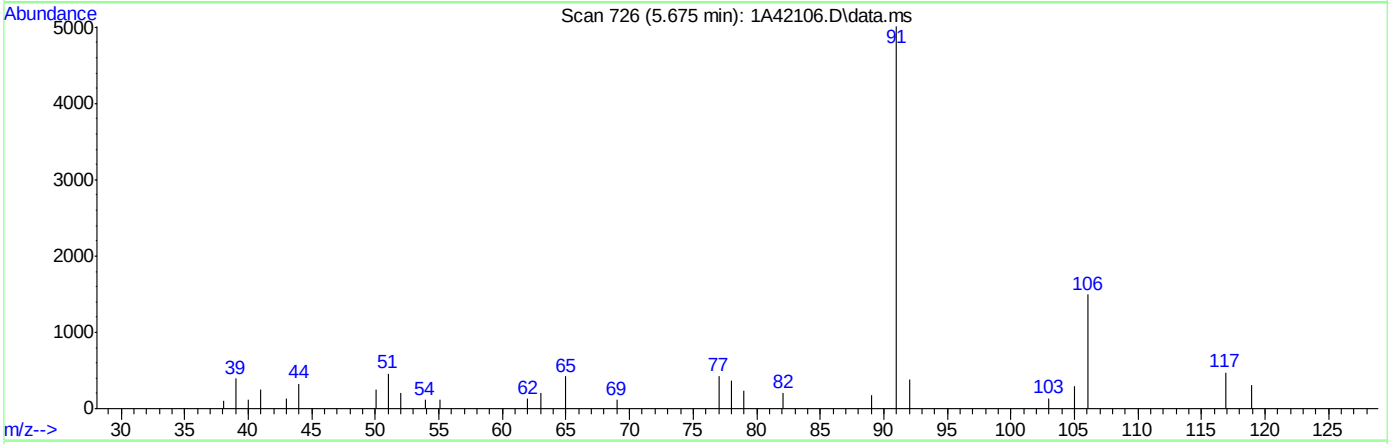
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	11.86
39.00	39.30	41.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:29:25 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(76) 1-Chlorohexane

5.675min (+0.030) 4.96ug/L

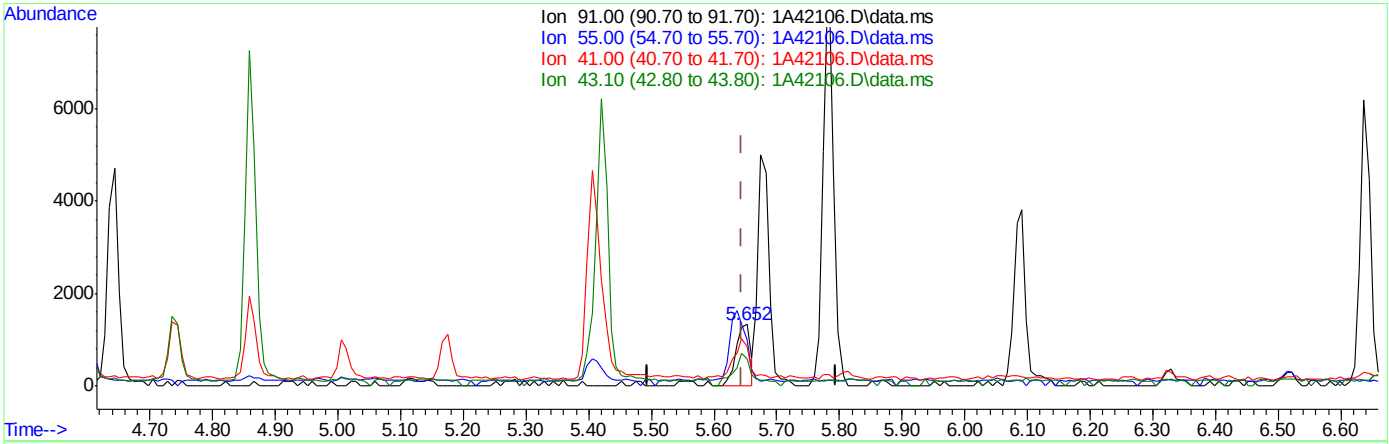
response 8475

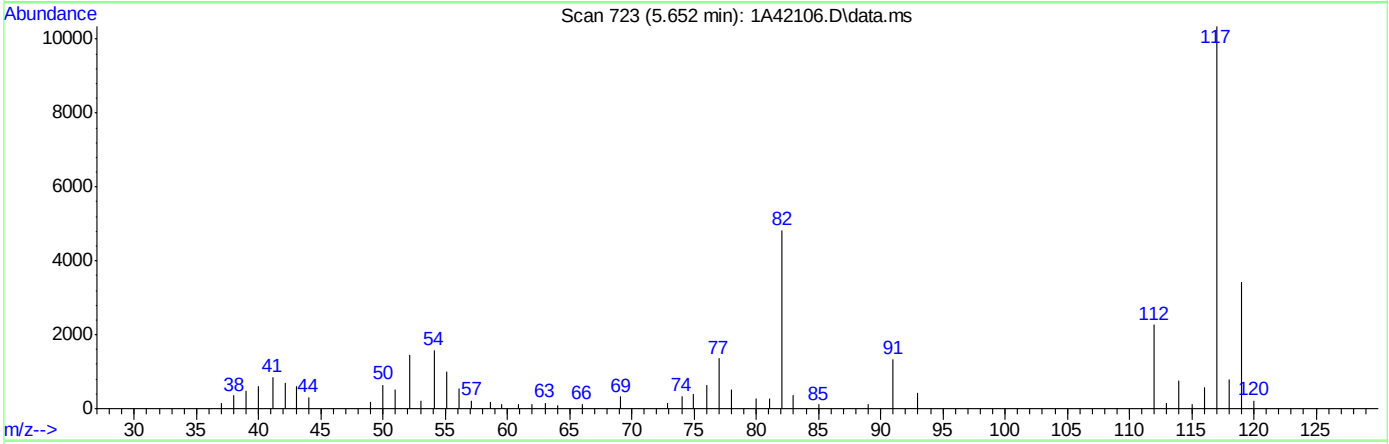
Ion	Exp%	Act%
91.00	100	100
55.00	65.30	0.16#
41.00	65.50	1.34#
43.10	48.90	0.46#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:29:25 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(76) 1-Chlorohexane

5.652min (+0.007) 1.25ug/L m

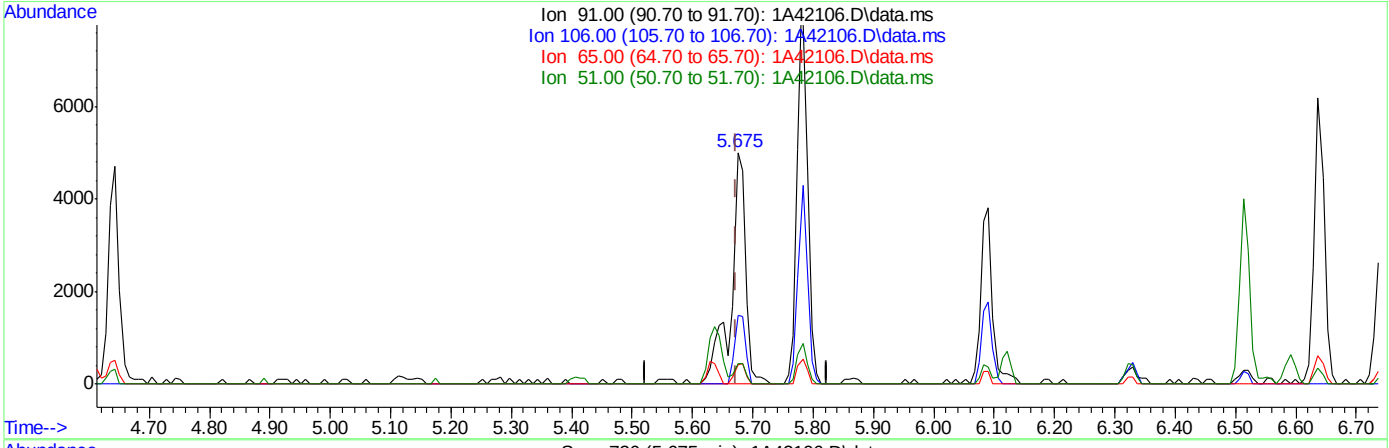
response 2132

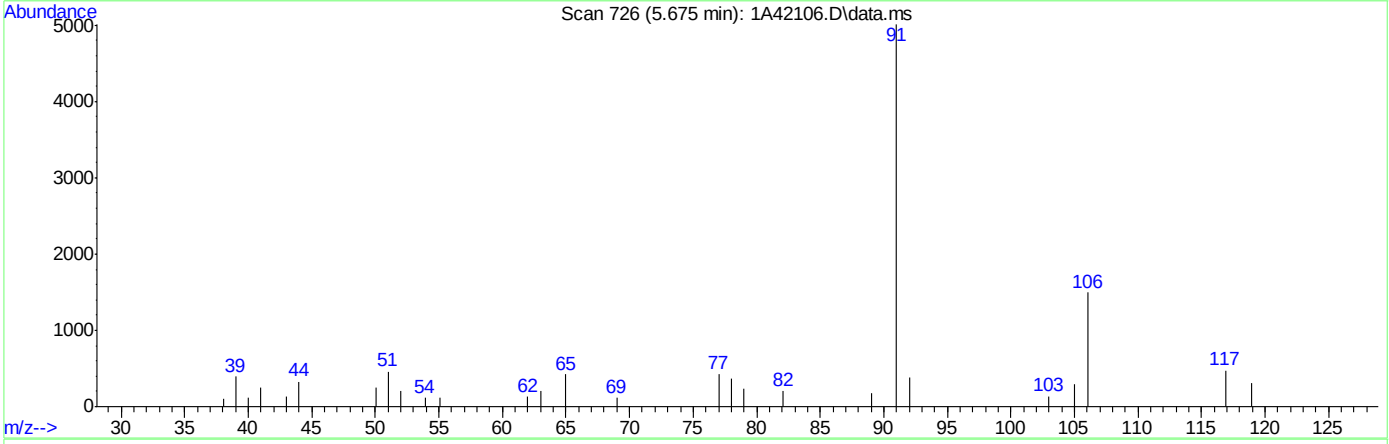
Ion	Exp%	Act%
91.00	100	100
55.00	65.30	74.12
41.00	65.50	63.76
43.10	48.90	44.59

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:38:17 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(77) Ethylbenzene (C)

5.675min (+0.002) 1.51ug/L

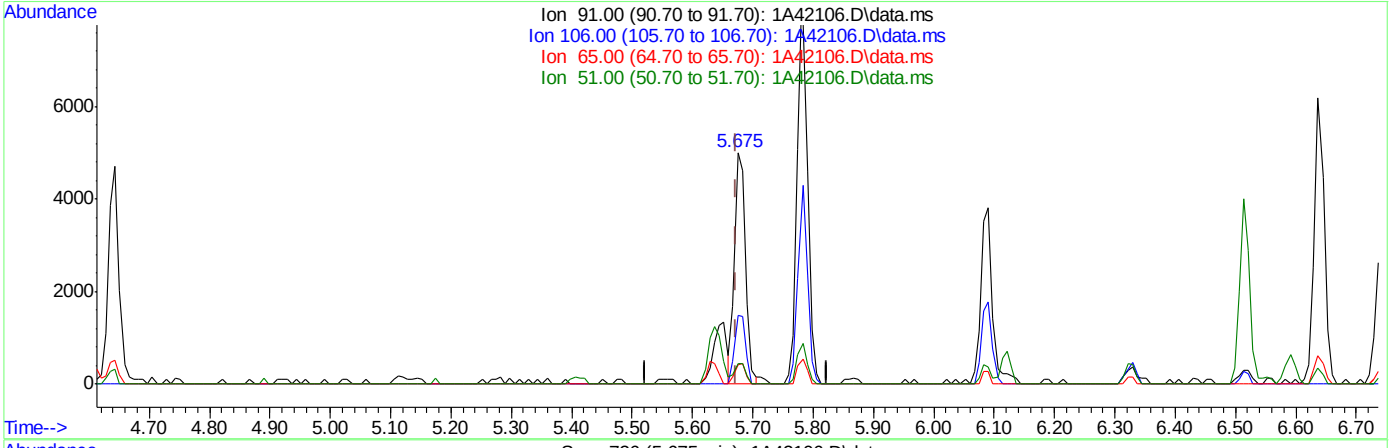
response 8475

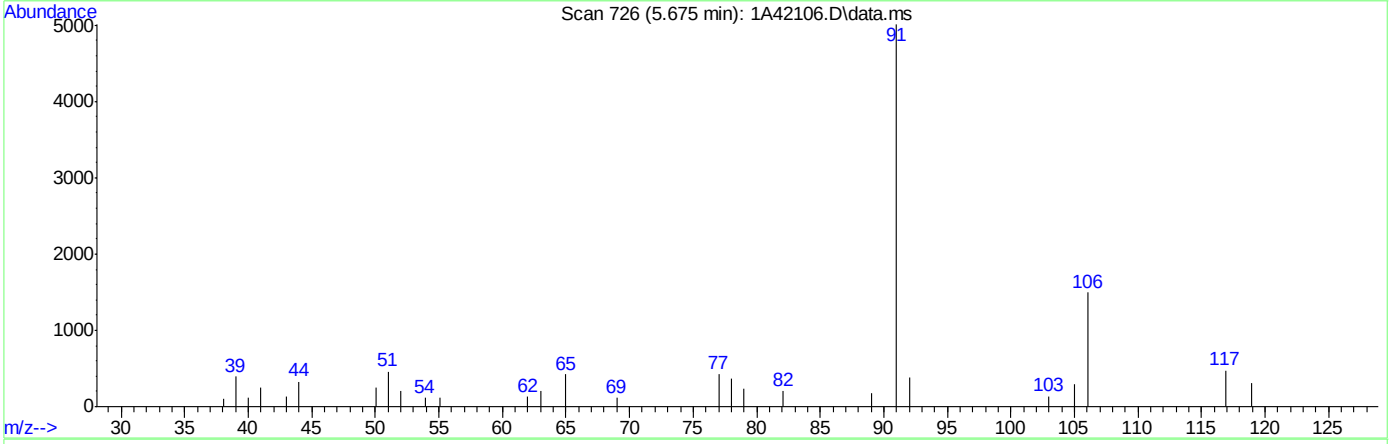
Ion	Exp%	Act%
91.00	100	100
106.00	34.20	29.87
65.00	8.60	8.42
51.00	10.30	9.10

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1695,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:38:17 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(77) Ethylbenzene (C)

5.675min (+0.002) 1.11ug/L m

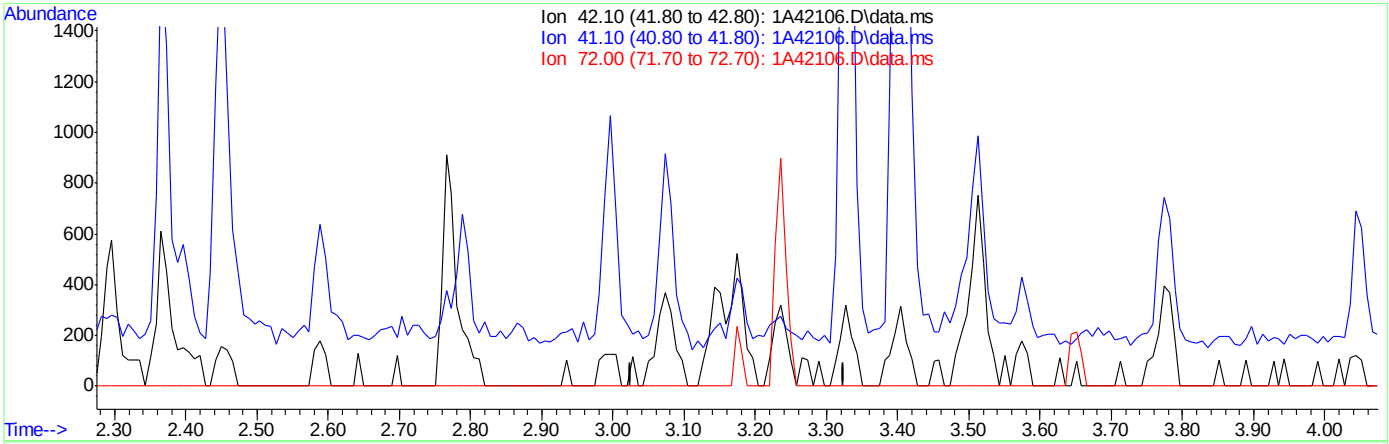
response 6225

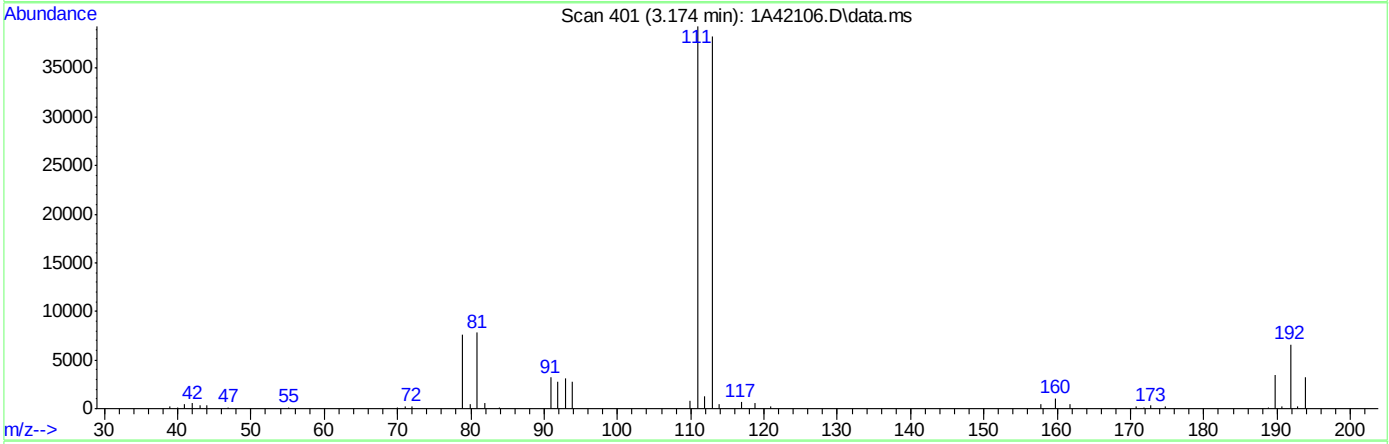
Ion	Exp%	Act%
91.00	100	100
106.00	34.20	29.87
65.00	8.60	8.42
51.00	10.30	9.10

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42106.D
Acq On : 12 Dec 2022 10:35 am
Operator : joannel
Sample : IC1696-1
Misc : MS52217,V1A1696,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 15:46:41 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42106.D\data.ms

(38) Tetrahydrofuran

3.175min 0.00ug/L d

response 0

Ion	Exp%	Act%
42.10	100	0.00
41.10	59.00	0.00
72.00	36.90	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 12/13/22 12:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42107.D
Acq On : 12 Dec 2022 12:27 pm
Operator : joannel
Sample : IC1696-2
Misc : MS52217,V1A1696,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 15:46:55 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.651	96	208008	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.636	117	169103	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	92116	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.181	113	67382	57.94	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 115.88%				
49) 1,2-Dichloroethane-d4	3.474	65	69628	56.22	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 112.44%				
63) Toluene-d8	4.605	98	211607	56.26	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 112.52%#				
86) 4-Bromofluorobenzene	6.521	174	76961	55.47	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 110.94%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.034	85	8955	10.11	ug/L		88
3) Chloromethane	1.157	50	8406	7.61	ug/L		94
4) 1,3-butadiene	1.219	39	5594	3.60	ug/L		86
5) Vinyl Chloride	1.203	62	8254	5.90	ug/L		94
6) Bromomethane	1.403	94	5866	3.08	ug/L		96
7) Chloroethane	1.480	64	4250	2.34	ug/L		96
8) Trichlorofluoromethane	1.580	101	11929	2.66	ug/L		97
9) Ethyl Ether	1.773	59	5469	6.07	ug/L		84
10) Ethanol	1.834	45	2342	104.03	ug/L		90
11) 1,2-Dichlorotrifluoroe...	1.873	67	8273	7.43	ug/L		98
12) 1,1-Dichloroethene	1.873	61	9813	6.72	ug/L		99
13) Freon 113	1.911	101	6650	7.44	ug/L		97
14) Carbon Disulfide	1.896	76	19607	7.51	ug/L		84
15) Iodomethane	1.958	142	4951	3.84	ug/L		98
16) Acrolein	2.042	56	7959	25.87	ug/L		95
17) Allyl chloride	2.142	41	8733	7.70	ug/L		94
18) Methylene Chloride	2.196	49	10289	7.79	ug/L		90
19) Acetone	2.204	43	11918	21.93	ug/L		100
20) Methyl acetate	2.288	43	26940	19.01	ug/L		94
21) trans-1,2-Dichloroethene	2.296	61	9638	6.98	ug/L		95
22) Hexane	2.365	56	5400m	6.80	ug/L		
23) Methyl Tert Butyl Ether	2.365	73	19679	7.50	ug/L		72
24) Acetonitrile	2.365	41	11044m	56.00	ug/L		
25) Tert Butyl Alcohol	2.396	59	11358	42.97	ug/L	#	70
26) Di-isopropyl ether	2.589	45	17830	5.09	ug/L		92
27) Chloroprene	2.627	53	21478	4.16	ug/L		94
28) 1,1-Dichloroethane	2.635	63	12029	6.17	ug/L		98
29) Acrylonitrile	2.627	52	12814	18.79	ug/L		93
30) ETBE	2.789	59	19209	5.83	ug/L		97
31) Vinyl acetate	2.766	43	57183	23.92	ug/L		98
32) cis-1,2-Dichloroethene	2.927	96	7916	7.22	ug/L		95
33) 2,2-Dichloropropane	2.997	77	10935	8.51	ug/L		98
34) Bromochloromethane	3.035	128	3746	7.32	ug/L	#	81
35) Cyclohexane	3.073	56	10965	6.24	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42107.D
Acq On : 12 Dec 2022 12:27 pm
Operator : joannel
Sample : IC1696-2
Misc : MS52217,V1A1696,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 15:46:55 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.081	83	13455	7.03	ug/L		96
37) Ethyl acetate	3.143	43	31656	16.68	ug/L		93
38) Tetrahydrofuran	3.174	42	2672	4.00	ug/L		84
40) Carbon Tetrachloride	3.181	117	9825m	7.85	ug/L		
41) 1,1,1-Trichloroethane	3.212	97	11045	7.39	ug/L		98
42) 2-Butanone	3.235	43	19924	18.91	ug/L		84
43) 1,1-Dichloropropene	3.281	75	9577	6.85	ug/L		92
44) tert-Butyl formate	3.327	59	27893	47.04	ug/L		89
45) Propionitrile	3.374	54	12574	35.37	ug/L		99
46) Methacrylonitrile	3.404	41	43908	32.98	ug/L		97
47) Benzene	3.412	78	27516	5.27	ug/L		96
48) TAME	3.497	73	18359	5.92	ug/L		97
50) 1,2-Dichloroethane	3.512	62	9636	5.59	ug/L		93
51) Isobutyl Alcohol	3.512	43	8627m	70.72	ug/L		
52) Tert Amyl Alcohol	3.574	59	9189	37.69	ug/L		92
53) Trichloroethene	3.758	95	7744	5.70	ug/L		93
54) Methylcyclohexane	3.774	83	11217	5.92	ug/L		91
55) Dibromomethane	3.989	93	4823	5.82	ug/L		93
56) 1,2-Dichloropropane	4.051	63	6922	5.67	ug/L		88
57) Bromodichloromethane	4.089	83	9276	6.30	ug/L		92
58) Methyl methacrylate	4.182	41	6299	4.72	ug/L		88
59) 1,4-Dioxane	4.205	88	1986	80.18	ug/L		96
60) 2-Chloroethyl vinyl ether	4.436	63	23663	26.65	ug/L		88
61) cis-1,3-Dichloropropene	4.474	75	11060	6.80	ug/L		87
64) Toluene	4.644	91	30802	6.13	ug/L		98
65) 2-Nitropropane	4.736	41	9842	23.23	ug/L		97
66) 4-Methyl-2-pentanone	4.859	43	42034	19.91	ug/L		91
67) trans-1,3-Dichloropropene	4.890	75	9429	6.72	ug/L		89
68) Tetrachloroethene	4.905	166	8211	5.78	ug/L		94
69) Ethyl methacrylate	5.013	69	9144	7.60	ug/L	#	75
70) 1,1,2-Trichloroethane	4.990	83	5576	6.25	ug/L		90
71) Dibromochloromethane	5.121	129	7174	5.79	ug/L		91
72) 1,3-Dichloropropane	5.175	76	10840	6.46	ug/L		88
73) 1,2-Dibromoethane	5.275	107	7090	5.88	ug/L		100
74) 3,3-Dimethyl-1-Butanol	5.405	57	53728	227.75	ug/L		91
75) 2-hexanone	5.421	43	39496	18.99	ug/L	#	72
76) 1-Chlorohexane	5.644	91	9972m	5.76	ug/L		
77) Ethylbenzene	5.683	91	32516m	5.72	ug/L		
78) Chlorobenzene	5.644	112	19331	5.32	ug/L		89
79) 1,1,1,2-Tetrachloroethane	5.690	131	6812	5.43	ug/L		93
80) m,p-Xylene	5.783	91	51935	11.74	ug/L		94
81) o-Xylene	6.090	91	26741	6.43	ug/L		97
82) Styrene	6.121	104	20938	6.02	ug/L		95
83) Bromoform	6.121	173	4726	5.80	ug/L		99
84) Isopropylbenzene	6.329	105	31808	5.86	ug/L		98
87) cis-1,4-Dichloro-2-butene	6.552	53	2906	5.08	ug/L	#	88
88) n-Propylbenzene	6.637	91	37712	5.52	ug/L		95
89) Bromobenzene	6.591	156	8482	5.40	ug/L	#	83
90) 1,1,2,2-Tetrachloroethane	6.660	83	9345	4.79	ug/L		98
91) 1,3,5-Trimethylbenzene	6.791	105	27672	5.55	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42107.D
Acq On : 12 Dec 2022 12:27 pm
Operator : joannel
Sample : IC1696-2
Misc : MS52217,V1A1696,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 15:46:55 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

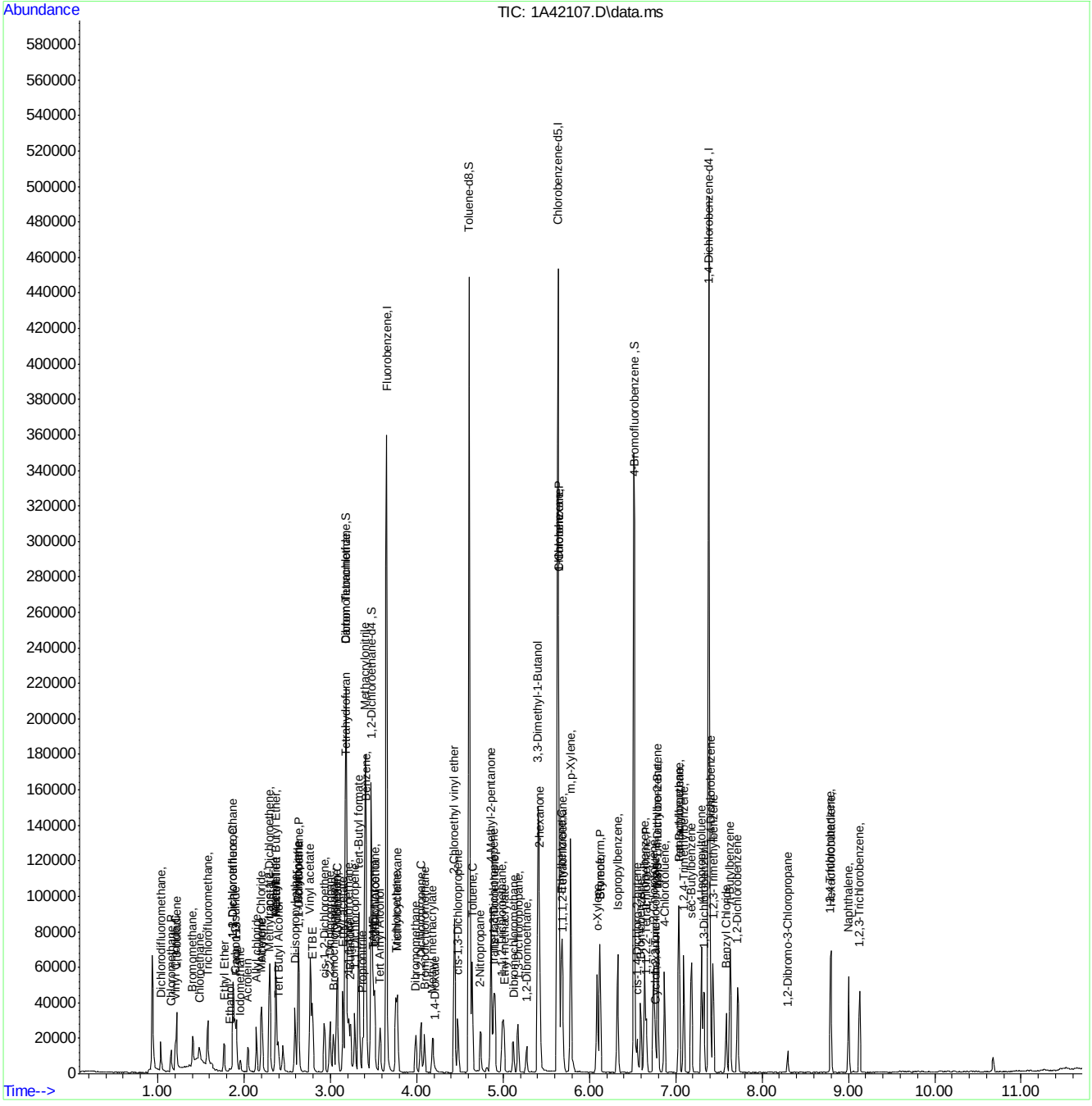
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 2-Chlorotoluene	6.745	91	22237	6.07	ug/L		97
93) trans-1,4-Dichloro-2-B...	6.791	53	3178	4.53	ug/L		92
94) 1,2,3-Trichloropropane	6.760	110	2830	4.27	ug/L		85
95) Cyclohexanone	6.768	55	2605	23.98	ug/L		93
96) 4-Chlorotoluene	6.868	91	22858	5.84	ug/L		94
97) tert-Butylbenzene	7.037	91	15395	5.85	ug/L		90
98) 1,2,4-Trimethylbenzene	7.091	105	26219	5.37	ug/L		100
99) Pentachloroethane	7.037	167	4184	6.39	ug/L	#	71
100) sec-Butylbenzene	7.183	105	32504	5.25	ug/L		97
101) 4-Isopropyltoluene	7.299	119	29050	5.21	ug/L		99
102) 1,3-Dichlorobenzene	7.330	146	15424	5.07	ug/L		97
103) 1,2,3-Trimethylbenzene	7.430	105	25248	5.47	ug/L		97
104) 1,4-Dichlorobenzene	7.399	146	15885	5.04	ug/L		95
105) n-Butylbenzene	7.630	92	14480	5.61	ug/L		93
106) Benzyl Chloride	7.584	126	3594	7.77	ug/L	#	68
107) 1,2-Dichlorobenzene	7.714	146	14592	5.41	ug/L		95
108) 1,2-Dibromo-3-Chloropr...	8.299	75	1813	6.66	ug/L	#	77
109) Hexachlorobutadiene	8.800	225	5080	7.99	ug/L		91
110) 1,2,4-Trichlorobenzene	8.792	180	9900	6.62	ug/L		96
111) Naphthalene	9.000	128	27177	5.03	ug/L		97
112) 1,2,3-Trichlorobenzene	9.131	180	9258	7.45	ug/L		92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42107.D
Acq On : 12 Dec 2022 12:27 pm
Operator : joannel
Sample : IC1696-2
Misc : MS52217,V1A1696,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 15:46:55 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V1A1696-IC1696
Lab FileID: 1A42107.D
Injection Time: 12/12/22 12:27

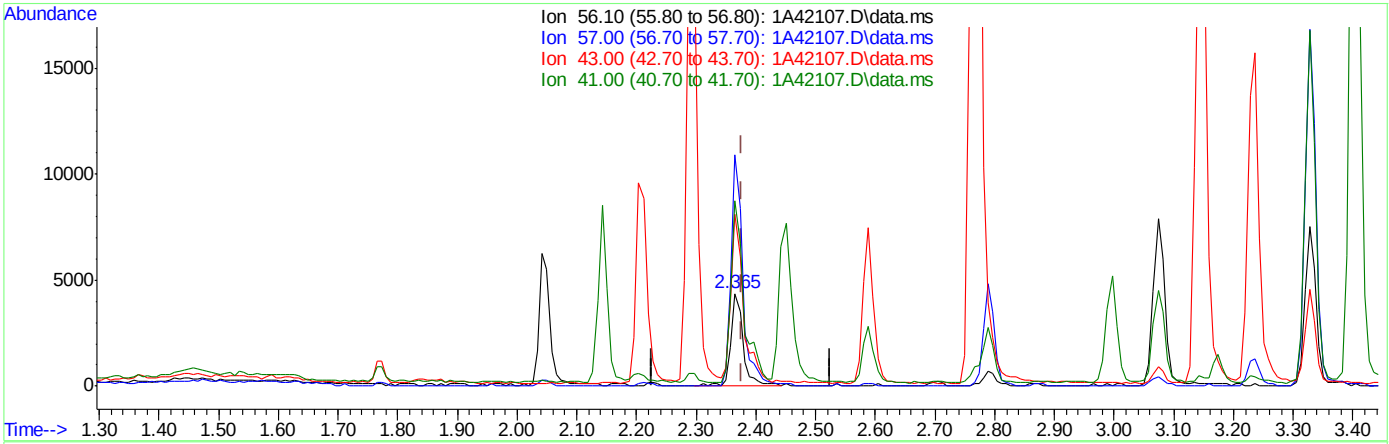
Method: SW846 8260D
Analyst approved: 12/13/22 09:47 Jo-Ann Lugo De Jesus
Supervisor approved: 12/13/22 12:21 Neil Christiana

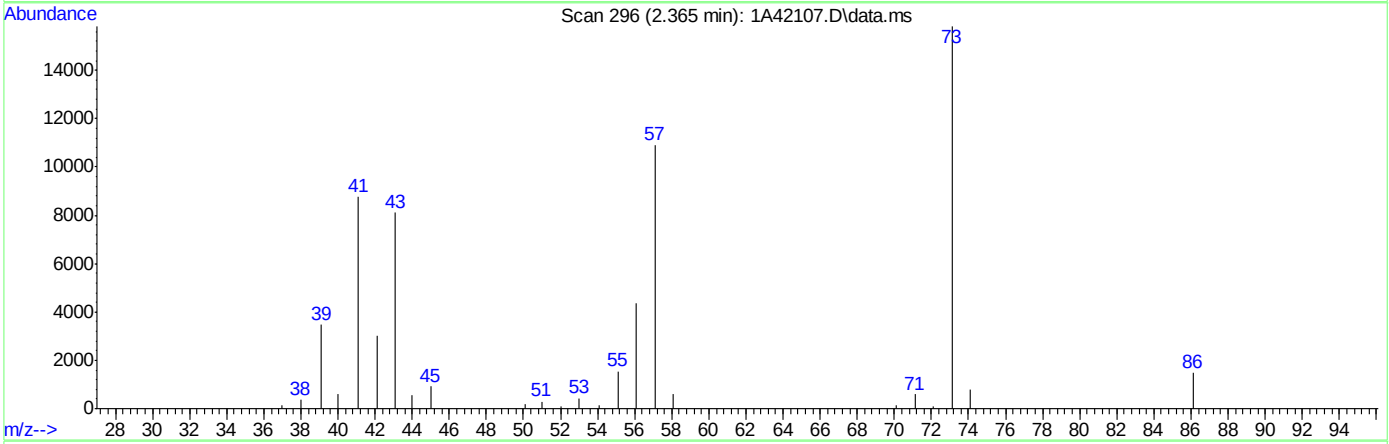
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		2.37	Overlapping peak
Acetonitrile	75-05-8		2.37	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.18	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration
Ethylbenzene	100-41-4		5.68	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42107.D
Acq On : 12 Dec 2022 12:27 pm
Operator : joannel
Sample : IC1696-2
Misc : MS52217,V1A1695,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 15:22:16 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42107.D\data.ms

(22) Hexane

2.365min (-0.011) 7.57ug/L

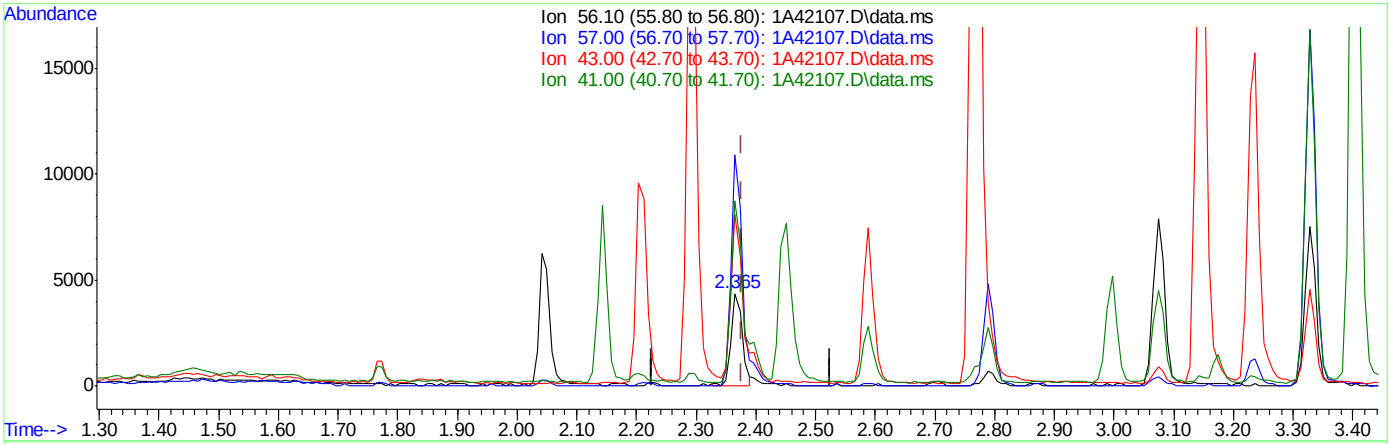
response 6016

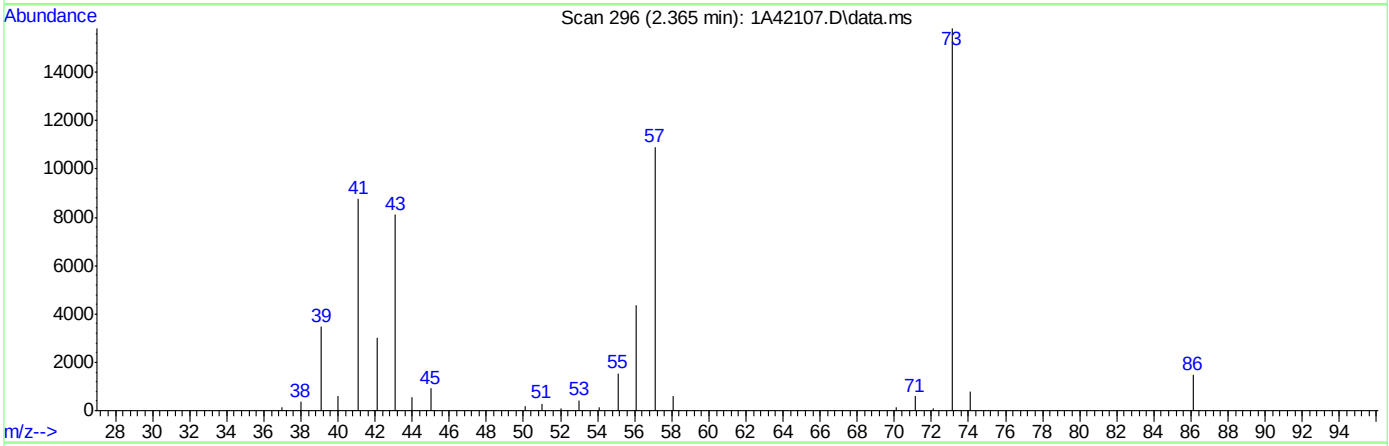
Ion	Exp%	Act%
56.10	100	100
57.00	257.60	249.93
43.00	191.30	180.57
41.00	225.50	186.91#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42107.D
Acq On : 12 Dec 2022 12:27 pm
Operator : joannel
Sample : IC1696-2
Misc : MS52217,V1A1695,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 15:22:16 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42107.D\data.ms

(22) Hexane

2.365min (-0.011) 6.80ug/L m

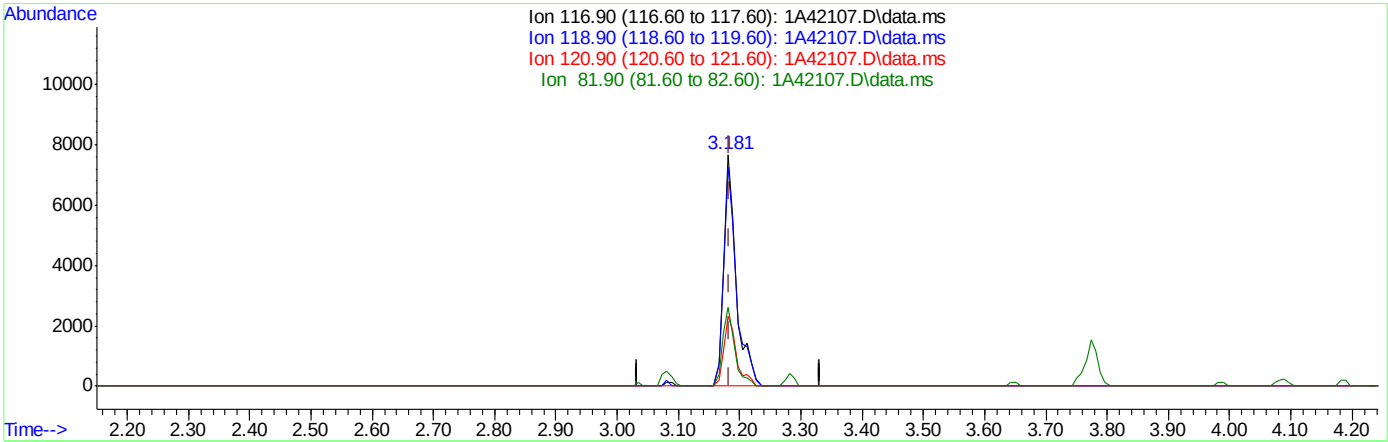
response 5400

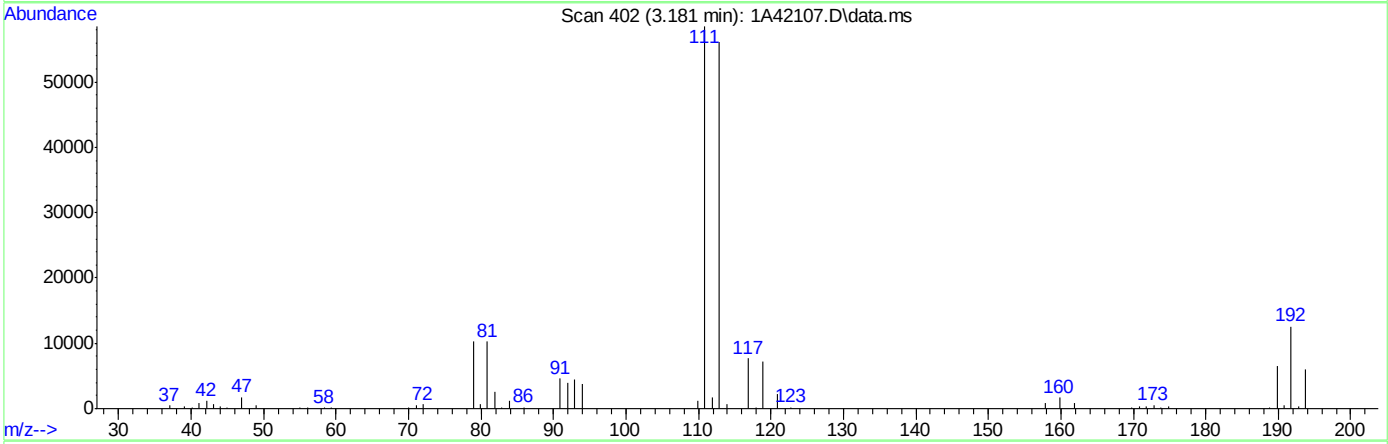
Ion	Exp%	Act%
56.10	100	100
57.00	257.60	249.93
43.00	191.30	185.40
41.00	225.50	200.27#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42107.D
Acq On : 12 Dec 2022 12:27 pm
Operator : joannel
Sample : IC1696-2
Misc : MS52217,V1A1695,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 15:22:16 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42107.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (-0.002) 8.72ug/L

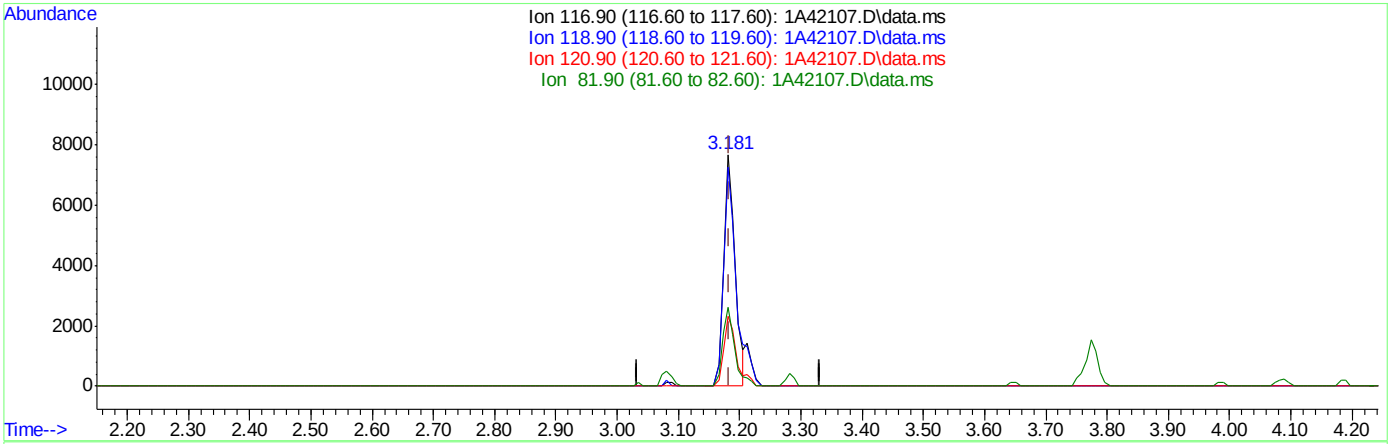
response 10931

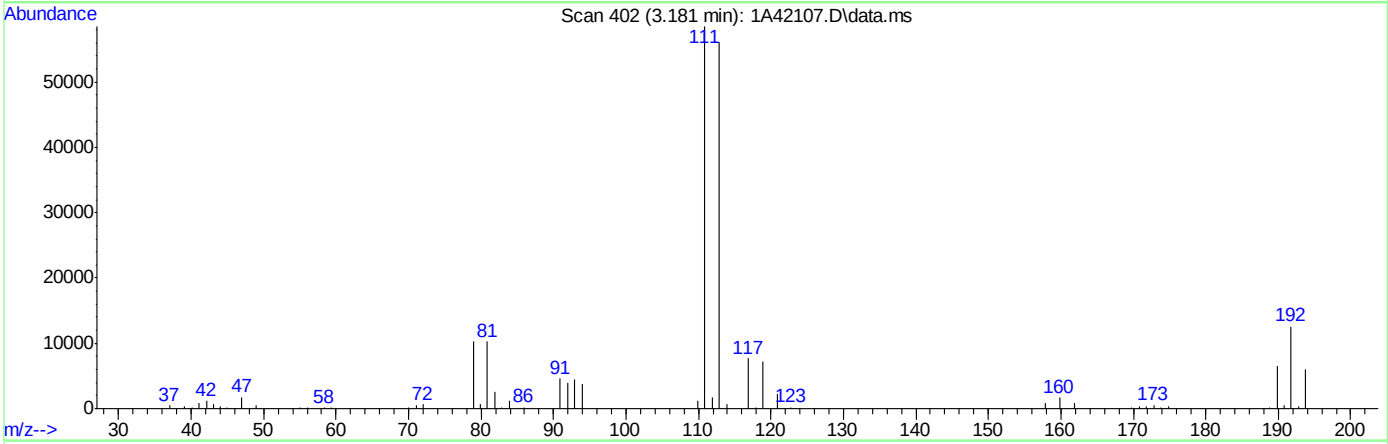
Ion	Exp%	Act%
116.90	100	100
118.90	88.40	94.57
120.90	29.50	30.21
81.90	25.50	34.21

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42107.D
Acq On : 12 Dec 2022 12:27 pm
Operator : joannel
Sample : IC1696-2
Misc : MS52217,V1A1695,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 15:22:16 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42107.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (-0.002) 7.85ug/L m

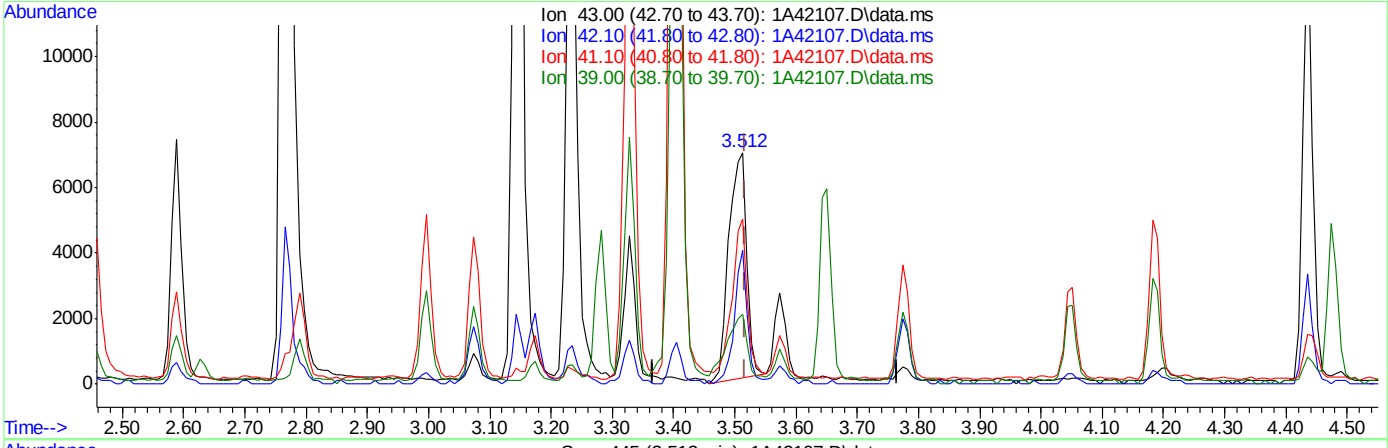
response 9825

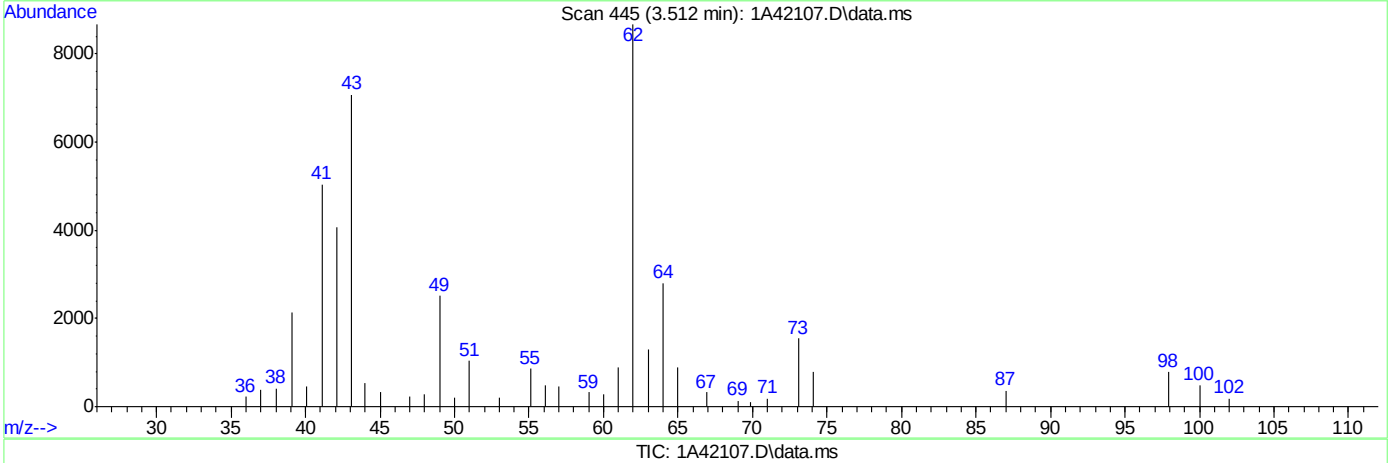
Ion	Exp%	Act%
116.90	100	100
118.90	88.40	94.57
120.90	29.50	30.21
81.90	25.50	34.21

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42107.D
Acq On : 12 Dec 2022 12:27 pm
Operator : joannel
Sample : IC1696-2
Misc : MS52217,V1A1695,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 15:22:16 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42107.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.005) 115.11ug/L

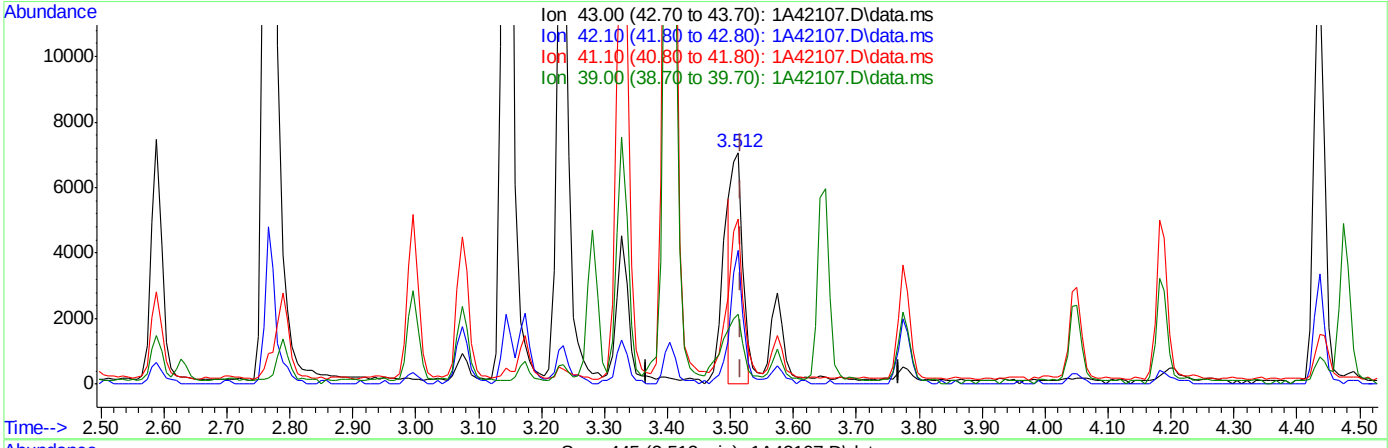
response 14010

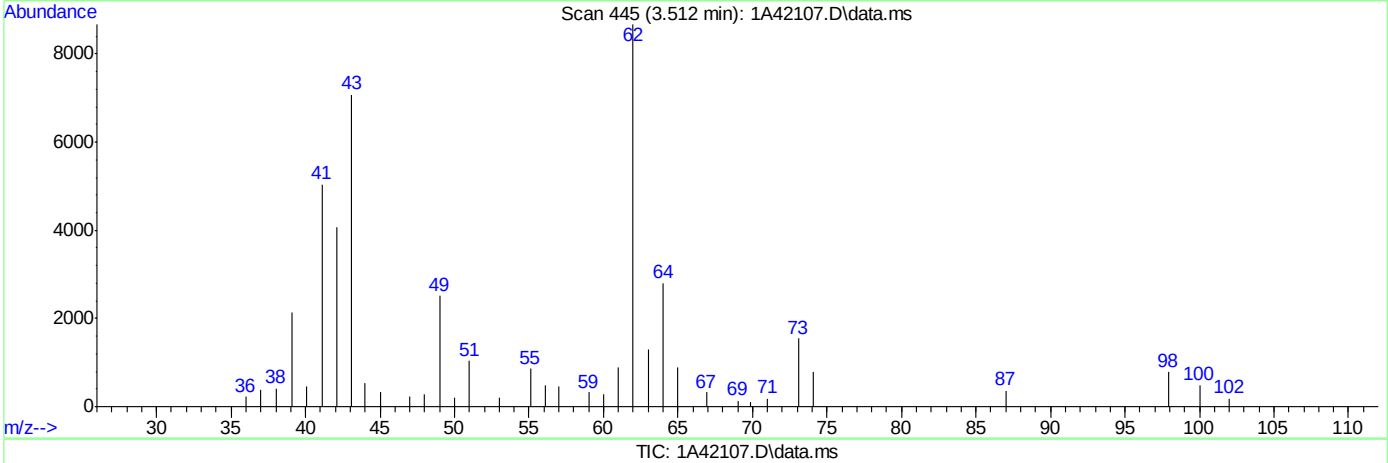
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	56.31
41.10	70.50	66.66
39.00	29.30	27.10

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42107.D
Acq On : 12 Dec 2022 12:27 pm
Operator : joannel
Sample : IC1696-2
Misc : MS52217,V1A1695,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 15:22:16 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42107.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.005) 70.72ug/L m

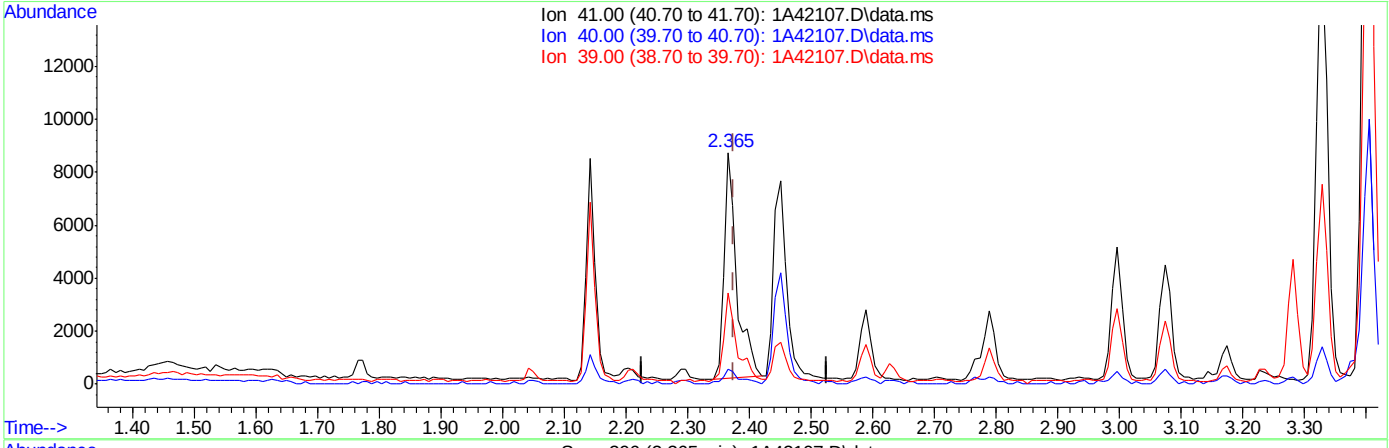
response 8627

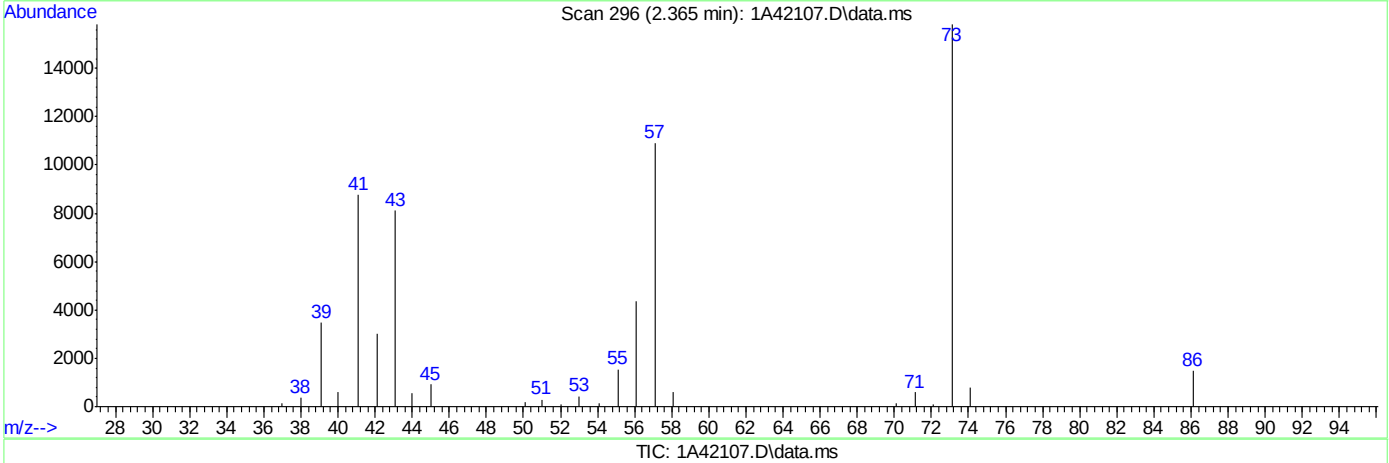
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	57.72
41.10	70.50	71.40
39.00	29.30	30.10

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42107.D
Acq On : 12 Dec 2022 12:27 pm
Operator : joannel
Sample : IC1696-2
Misc : MS52217,V1A1695,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 15:31:13 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42107.D\data.ms

(24) Acetonitrile

2.365min (-0.011) 61.79ug/L

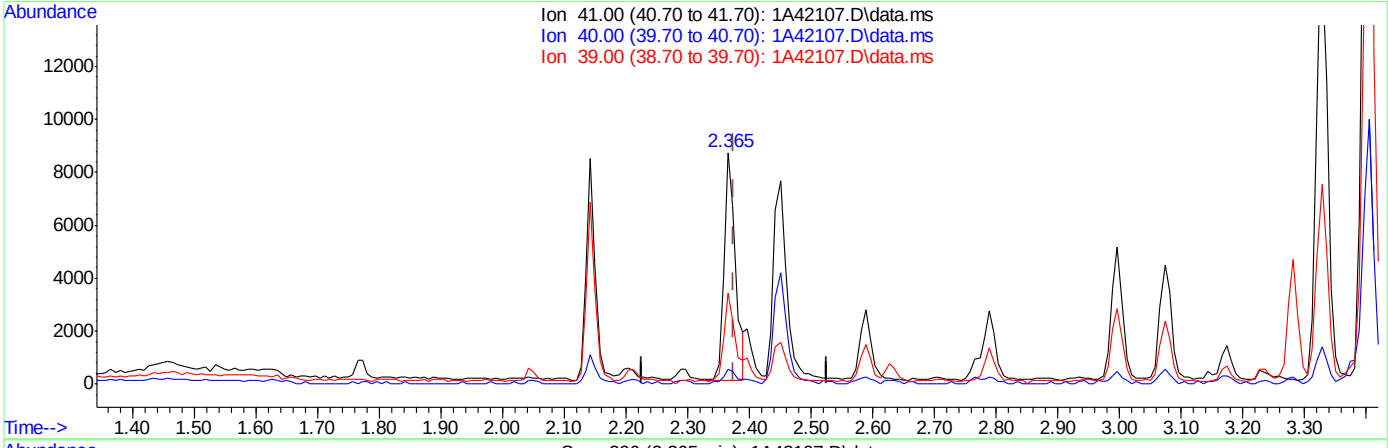
response 12182

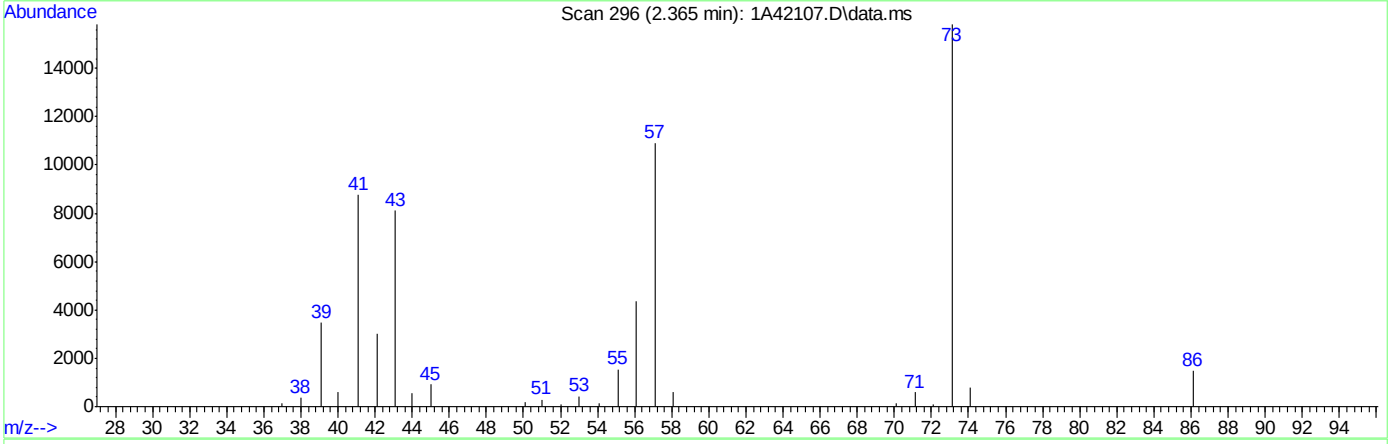
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.80
39.00	39.30	38.51
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42107.D
Acq On : 12 Dec 2022 12:27 pm
Operator : joannel
Sample : IC1696-2
Misc : MS52217,V1A1695,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 15:31:13 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42107.D\data.ms

(24) Acetonitrile

2.365min (-0.011) 56.00ug/L m

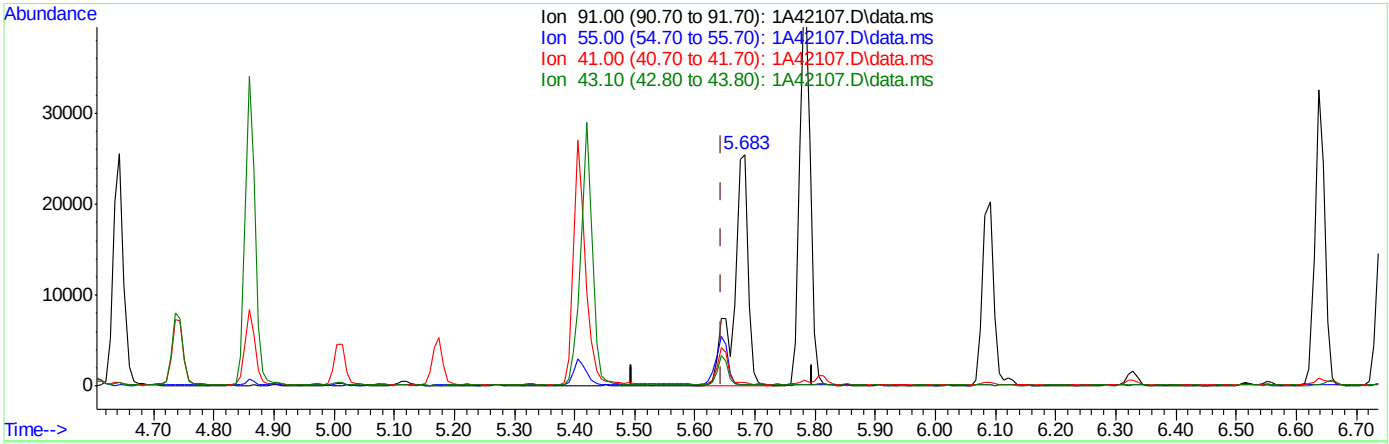
response 11044

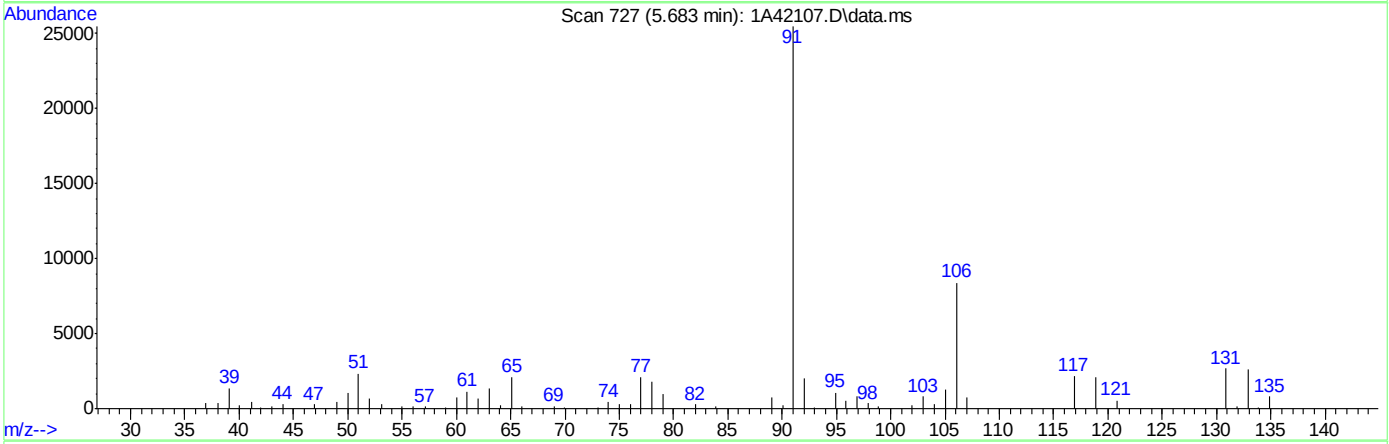
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.65
39.00	39.30	39.56
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42107.D
Acq On : 12 Dec 2022 12:27 pm
Operator : joannel
Sample : IC1696-2
Misc : MS52217,V1A1695,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 15:31:13 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42107.D\data.ms

(76) 1-Chlorohexane

5.683min (+0.038) 24.55ug/L

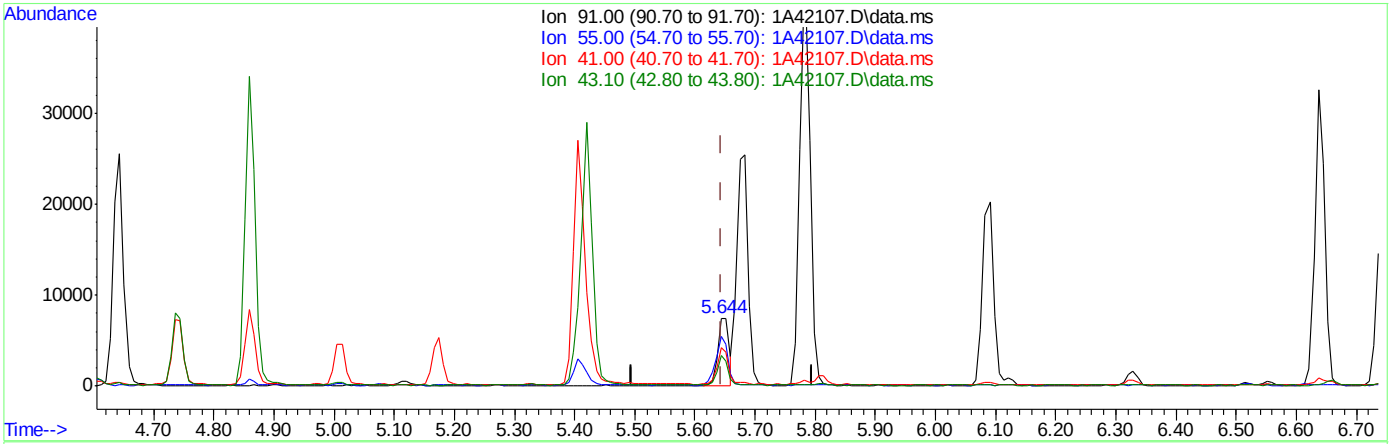
response 42486

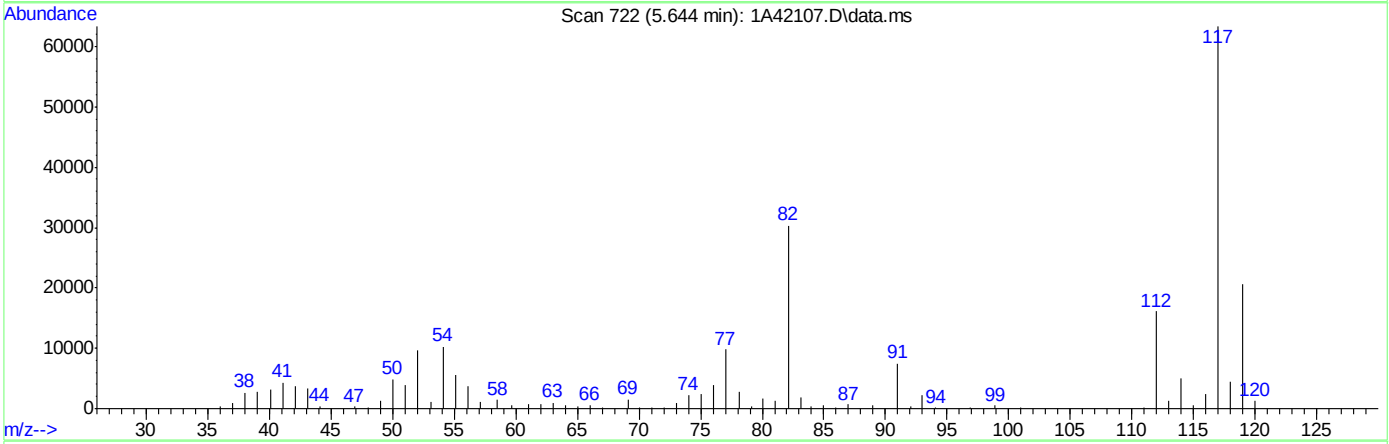
Ion	Exp%	Act%
91.00	100	100
55.00	65.30	0.47#
41.00	65.50	0.78#
43.10	48.90	0.15#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42107.D
Acq On : 12 Dec 2022 12:27 pm
Operator : joannel
Sample : IC1696-2
Misc : MS52217,V1A1695,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 15:31:13 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42107.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.001) 5.76ug/L m

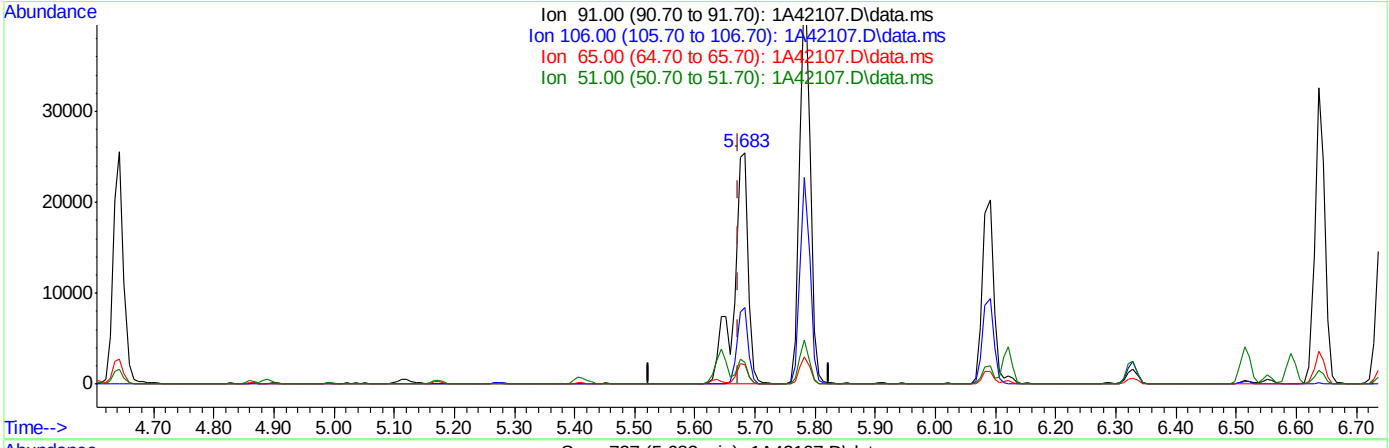
response 9972

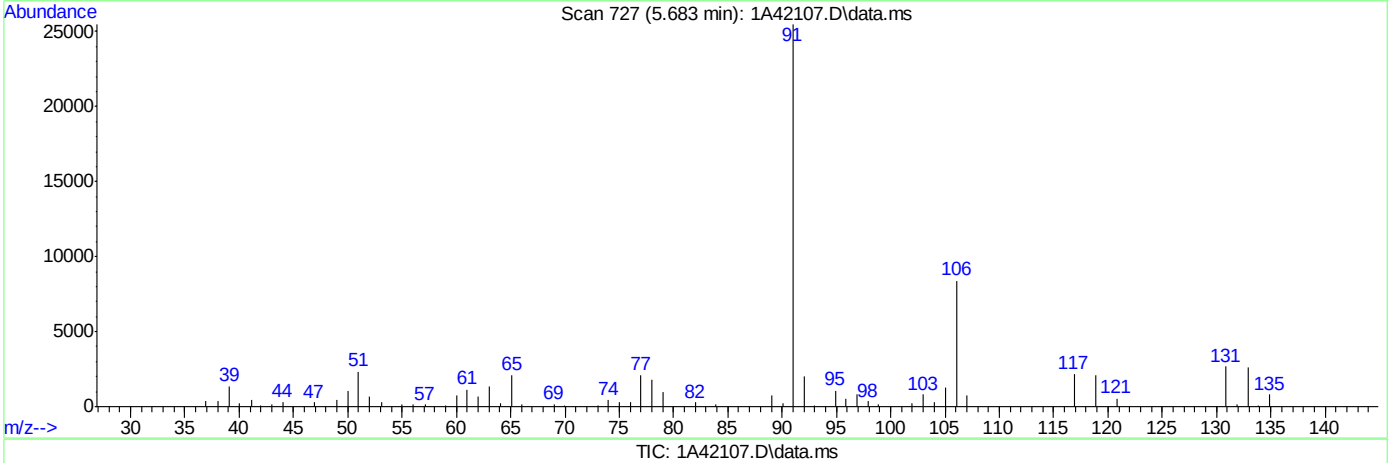
Ion	Exp%	Act%
91.00	100	100
55.00	65.30	74.13
41.00	65.50	57.62
43.10	48.90	44.55

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42107.D
Acq On : 12 Dec 2022 12:27 pm
Operator : joannel
Sample : IC1696-2
Misc : MS52217,V1A1695,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 15:38:49 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42107.D\data.ms

(77) Ethylbenzene (C)

5.683min (+0.010) 7.47ug/L

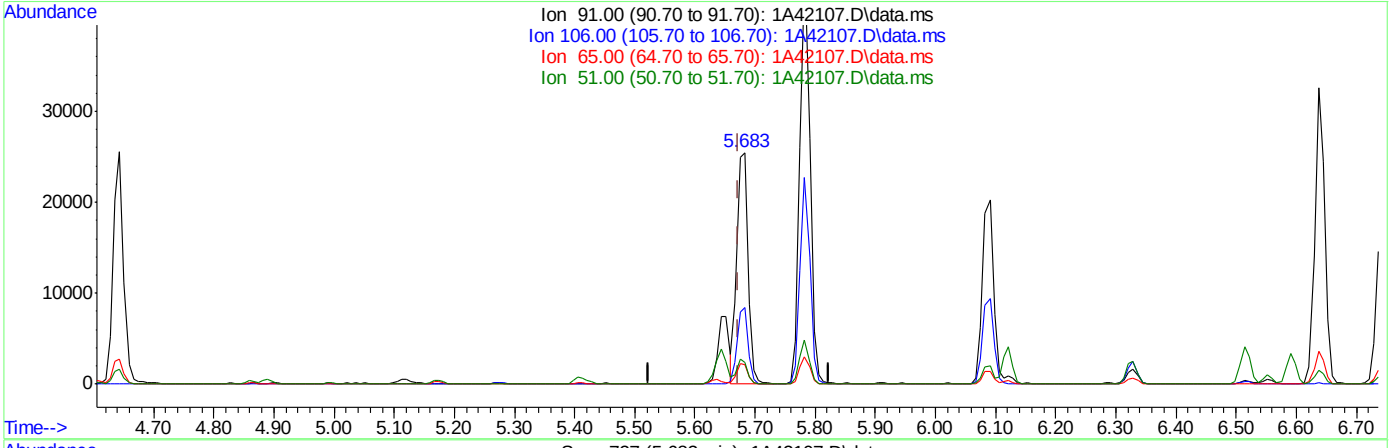
response 42486

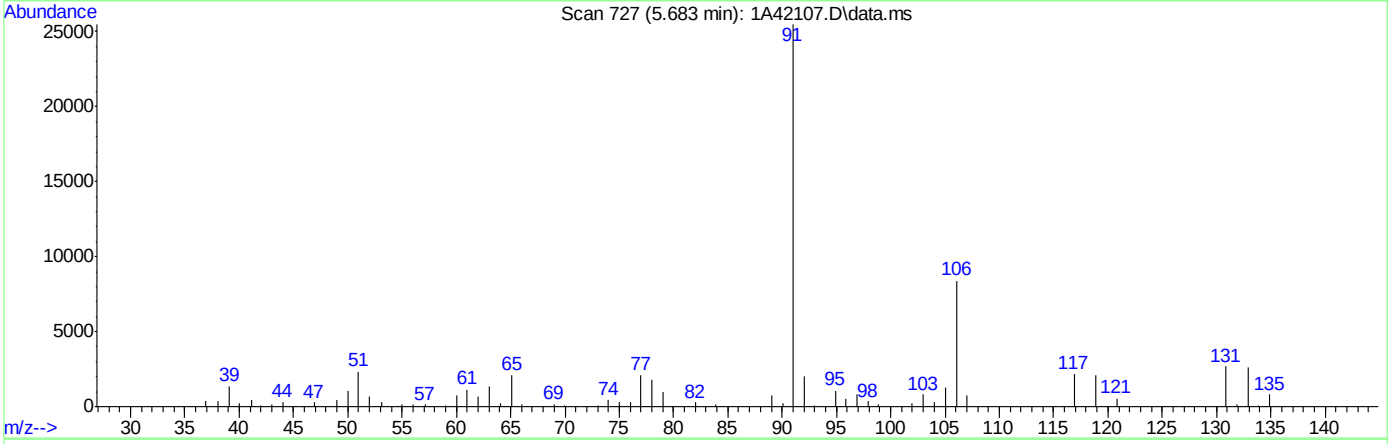
Ion	Exp%	Act%
91.00	100	100
106.00	34.20	32.97
65.00	8.60	8.36
51.00	10.30	9.20

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42107.D
Acq On : 12 Dec 2022 12:27 pm
Operator : joannel
Sample : IC1696-2
Misc : MS52217,V1A1695,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 15:38:49 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42107.D\data.ms

(77) Ethylbenzene (C)

5.683min (+0.010) 5.72ug/L m

response 32516

Ion	Exp%	Act%
91.00	100	100
106.00	34.20	32.97
65.00	8.60	8.36
51.00	10.30	9.20

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 12/13/22 12:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42108.D
Acq On : 12 Dec 2022 12:51 pm
Operator : joannel
Sample : IC1696-3
Misc : MS52217,V1A1696,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 15:47:15 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.651	96	216282	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.636	117	174608	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.384	152	94435	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.181	113	69118	57.16	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 114.32%				
49) 1,2-Dichloroethane-d4	3.474	65	71625	55.62	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 111.24%				
63) Toluene-d8	4.605	98	219604	56.54	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 113.08%#				
86) 4-Bromofluorobenzene	6.514	174	79494	55.89	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 111.78%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.034	85	13776	14.96	ug/L		86
3) Chloromethane	1.157	50	12516	10.89	ug/L		96
4) 1,3-butadiene	1.219	39	11275	7.17	ug/L		88
5) Vinyl Chloride	1.211	62	12504	8.60	ug/L		97
6) Bromomethane	1.403	94	8998	4.54	ug/L		99
7) Chloroethane	1.480	64	6140	3.25	ug/L		96
8) Trichlorofluoromethane	1.580	101	17663	3.79	ug/L		100
9) Ethyl Ether	1.773	59	9676	10.36	ug/L	#	84
10) Ethanol	1.842	45	4260	181.99	ug/L		94
11) 1,2-Dichlorotrifluoroe...	1.873	67	15835	13.85	ug/L		99
12) 1,1-Dichloroethene	1.881	61	18586	12.43	ug/L		91
13) Freon 113	1.911	101	13611	14.84	ug/L		97
14) Carbon Disulfide	1.896	76	36906	13.80	ug/L		86
15) Iodomethane	1.958	142	10338	7.80	ug/L		99
16) Acrolein	2.050	56	12104	37.75	ug/L		95
17) Allyl chloride	2.142	41	16040	13.61	ug/L		96
18) Methylene Chloride	2.196	49	17400	12.69	ug/L		90
19) Acetone	2.212	43	25494	45.33	ug/L		93
20) Methyl acetate	2.296	43	49148	33.38	ug/L		89
21) trans-1,2-Dichloroethene	2.296	61	17757	12.41	ug/L		95
22) Hexane	2.365	56	10782m	13.01	ug/L		
23) Methyl Tert Butyl Ether	2.365	73	36419	13.32	ug/L		77
24) Acetonitrile	2.365	41	20994m	102.71	ug/L		
25) Tert Butyl Alcohol	2.396	59	22136	80.54	ug/L		95
26) Di-isopropyl ether	2.589	45	34294	9.43	ug/L		92
27) Chloroprene	2.627	53	47565	8.88	ug/L		96
28) 1,1-Dichloroethane	2.635	63	23008	11.36	ug/L		98
29) Acrylonitrile	2.627	52	29861	42.23	ug/L		97
30) ETBE	2.789	59	36778	10.73	ug/L		96
31) Vinyl acetate	2.766	43	141472	56.92	ug/L		97
32) cis-1,2-Dichloroethene	2.927	96	13980	12.26	ug/L		91
33) 2,2-Dichloropropane	2.997	77	20712	15.51	ug/L		98
34) Bromochloromethane	3.035	128	6911	12.89	ug/L	#	82
35) Cyclohexane	3.074	56	21103	11.60	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42108.D
Acq On : 12 Dec 2022 12:51 pm
Operator : joannel
Sample : IC1696-3
Misc : MS52217,V1A1696,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 15:47:15 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.081	83	24884	12.50	ug/L		94
37) Ethyl acetate	3.143	43	78611	39.84	ug/L		94
38) Tetrahydrofuran	3.174	42	4638	6.68	ug/L		89
40) Carbon Tetrachloride	3.181	117	18684m	14.20	ug/L		
41) 1,1,1-Trichloroethane	3.212	97	20805	13.39	ug/L		97
42) 2-Butanone	3.235	43	45552	41.68	ug/L		83
43) 1,1-Dichloropropene	3.281	75	17998	12.42	ug/L		92
44) tert-Butyl formate	3.328	59	42685	67.91	ug/L		91
45) Propionitrile	3.374	54	22641	61.54	ug/L		98
46) Methacrylonitrile	3.404	41	81617	58.96	ug/L		98
47) Benzene	3.412	78	52138	9.60	ug/L		94
48) TAME	3.497	73	35344	10.97	ug/L		95
50) 1,2-Dichloroethane	3.512	62	18133	10.12	ug/L		93
51) Isobutyl Alcohol	3.512	43	16080m	127.14	ug/L		
52) Tert Amyl Alcohol	3.574	59	18280	72.10	ug/L		96
53) Trichloroethene	3.759	95	14714	10.41	ug/L		93
54) Methylcyclohexane	3.774	83	22953	11.65	ug/L		94
55) Dibromomethane	3.989	93	8932	10.36	ug/L		93
56) 1,2-Dichloropropane	4.051	63	13102	10.33	ug/L		90
57) Bromodichloromethane	4.089	83	17242	11.25	ug/L		92
58) Methyl methacrylate	4.182	41	11455	8.26	ug/L		89
59) 1,4-Dioxane	4.205	88	3975	155.15	ug/L		89
60) 2-Chloroethyl vinyl ether	4.436	63	37082	40.18	ug/L		89
61) cis-1,3-Dichloropropene	4.474	75	20680	12.23	ug/L		88
64) Toluene	4.644	91	56530	10.90	ug/L		96
65) 2-Nitropropane	4.736	41	17934	40.99	ug/L		97
66) 4-Methyl-2-pentanone	4.859	43	92378	42.38	ug/L		90
67) trans-1,3-Dichloropropene	4.890	75	17914	12.37	ug/L		88
68) Tetrachloroethene	4.905	166	15926	10.86	ug/L		93
69) Ethyl methacrylate	5.005	69	16455	13.25	ug/L	#	79
70) 1,1,2-Trichloroethane	4.990	83	10350	11.29	ug/L		92
71) Dibromochloromethane	5.113	129	13106	10.25	ug/L		93
72) 1,3-Dichloropropane	5.175	76	20236	11.75	ug/L		87
73) 1,2-Dibromoethane	5.275	107	13101	10.53	ug/L		96
74) 3,3-Dimethyl-1-Butanol	5.406	57	87563	359.47	ug/L		92
75) 2-hexanone	5.421	43	82134	38.24	ug/L	#	62
76) 1-Chlorohexane	5.644	91	18911m	10.58	ug/L		
77) Ethylbenzene	5.675	91	61299m	10.44	ug/L		
78) Chlorobenzene	5.644	112	36753	9.79	ug/L		90
79) 1,1,1,2-Tetrachloroethane	5.690	131	12680	9.79	ug/L		95
80) m,p-Xylene	5.783	91	95804	20.97	ug/L		96
81) o-Xylene	6.083	91	48825	11.37	ug/L		96
82) Styrene	6.121	104	38118	10.61	ug/L		95
83) Bromoform	6.121	173	8579	10.20	ug/L		94
84) Isopropylbenzene	6.329	105	58798	10.48	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.552	53	5389	9.19	ug/L	#	79
88) n-Propylbenzene	6.637	91	71254	10.18	ug/L		94
89) Bromobenzene	6.591	156	15864	9.85	ug/L		86
90) 1,1,2,2-Tetrachloroethane	6.660	83	17013	8.51	ug/L		97
91) 1,3,5-Trimethylbenzene	6.791	105	51046	9.99	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42108.D
Acq On : 12 Dec 2022 12:51 pm
Operator : joannel
Sample : IC1696-3
Misc : MS52217,V1A1696,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 15:47:15 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

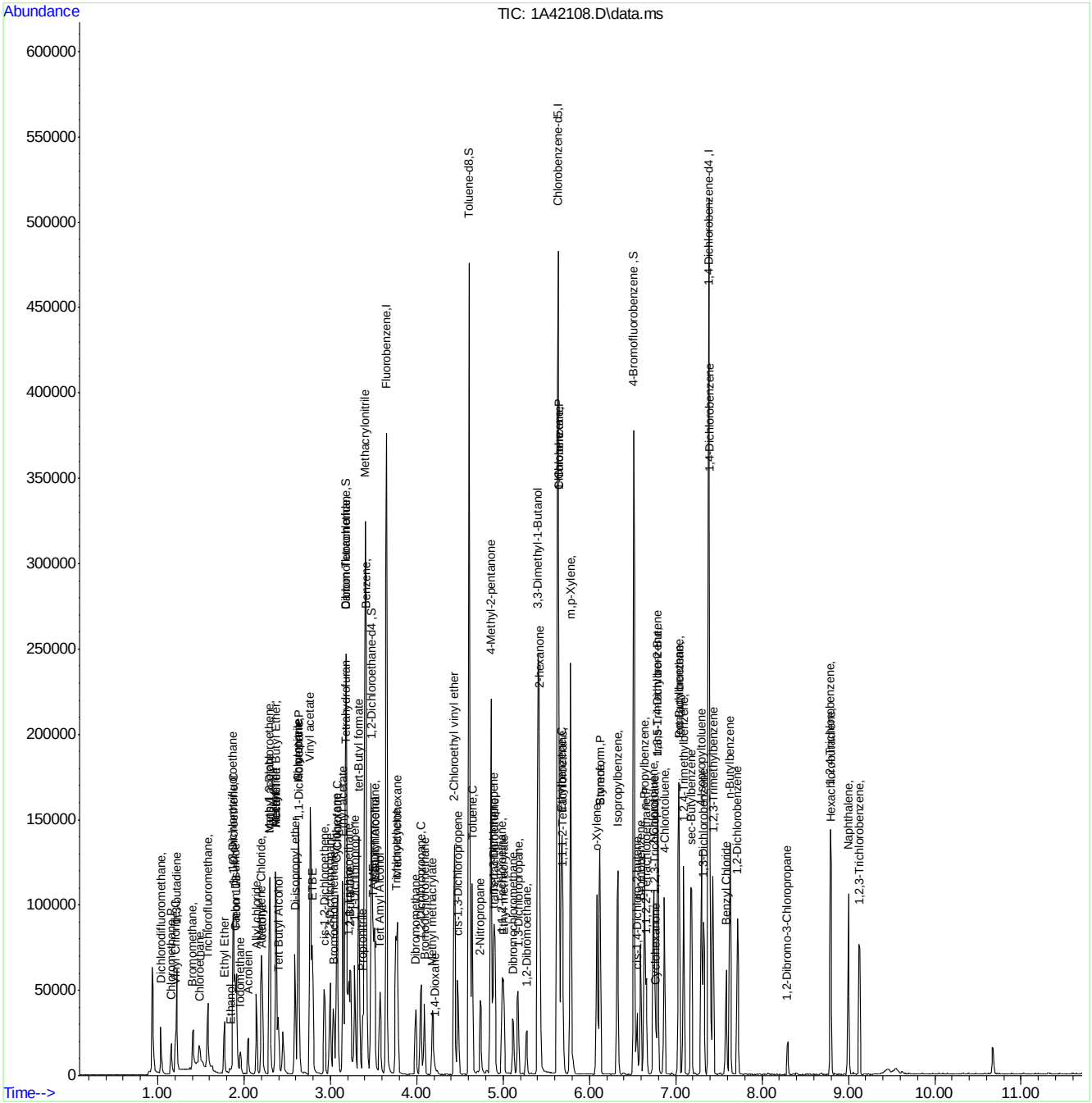
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 2-Chlorotoluene	6.745	91	40377	10.76	ug/L		96
93) trans-1,4-Dichloro-2-B...	6.791	53	6139	8.53	ug/L		88
94) 1,2,3-Trichloropropane	6.752	110	5114	7.53	ug/L		90
95) Cyclohexanone	6.768	55	5187	46.58	ug/L		93
96) 4-Chlorotoluene	6.868	91	42946	10.70	ug/L		93
97) tert-Butylbenzene	7.037	91	29074	10.78	ug/L		90
98) 1,2,4-Trimethylbenzene	7.091	105	50081	10.00	ug/L		98
99) Pentachloroethane	7.037	167	7708	11.41	ug/L	#	77
100) sec-Butylbenzene	7.183	105	61762	9.73	ug/L		97
101) 4-Isopropyltoluene	7.299	119	54709	9.57	ug/L		98
102) 1,3-Dichlorobenzene	7.322	146	28388	9.10	ug/L		96
103) 1,2,3-Trimethylbenzene	7.430	105	47462	10.03	ug/L		98
104) 1,4-Dichlorobenzene	7.391	146	29360	9.09	ug/L		88
105) n-Butylbenzene	7.630	92	27765	10.50	ug/L		94
106) Benzyl Chloride	7.584	126	6410	13.12	ug/L	#	63
107) 1,2-Dichlorobenzene	7.714	146	26521	9.58	ug/L		96
108) 1,2-Dibromo-3-Chloropr...	8.292	75	3384	11.87	ug/L	#	67
109) Hexachlorobutadiene	8.800	225	10511	16.23	ug/L		86
110) 1,2,4-Trichlorobenzene	8.792	180	18787	12.25	ug/L		91
111) Naphthalene	9.000	128	50313	9.09	ug/L		98
112) 1,2,3-Trichlorobenzene	9.131	180	17264	13.47	ug/L		93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42108.D
Acq On : 12 Dec 2022 12:51 pm
Operator : joannel
Sample : IC1696-3
Misc : MS52217,V1A1696,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 15:47:15 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V1A1696-IC1696
Lab FileID: 1A42108.D
Injection Time: 12/12/22 12:51

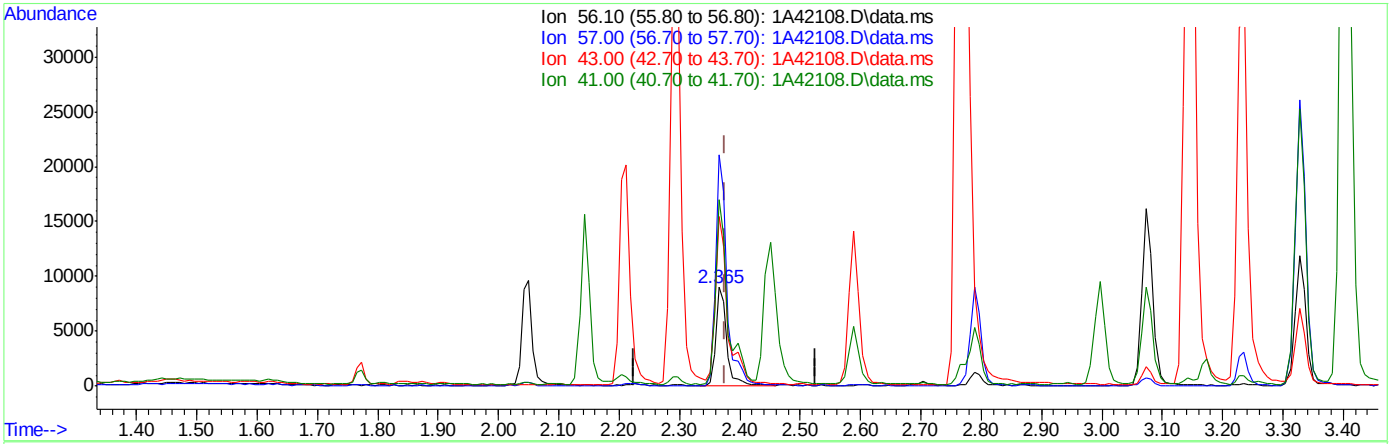
Method: SW846 8260D
Analyst approved: 12/13/22 09:47 Jo-Ann Lugo De Jesus
Supervisor approved: 12/13/22 12:21 Neil Christiana

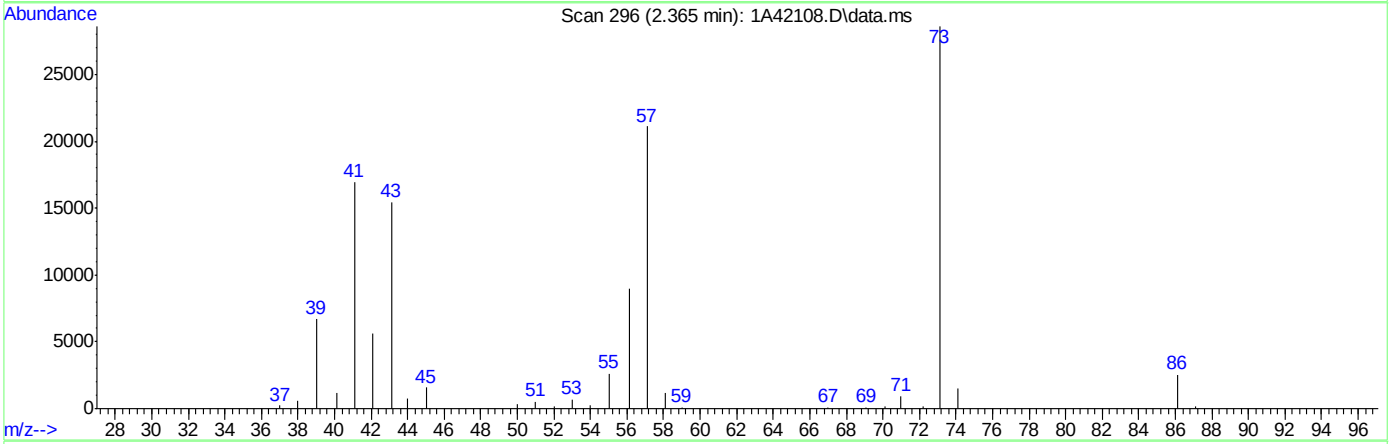
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		2.37	Overlapping peak
Acetonitrile	75-05-8		2.37	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.18	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration
Ethylbenzene	100-41-4		5.67	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42108.D
Acq On : 12 Dec 2022 12:51 pm
Operator : joannel
Sample : IC1696-3
Misc : MS52217,V1A1695,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 15:22:18 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42108.D\data.ms

(22) Hexane

2.365min (-0.011) 14.13ug/L

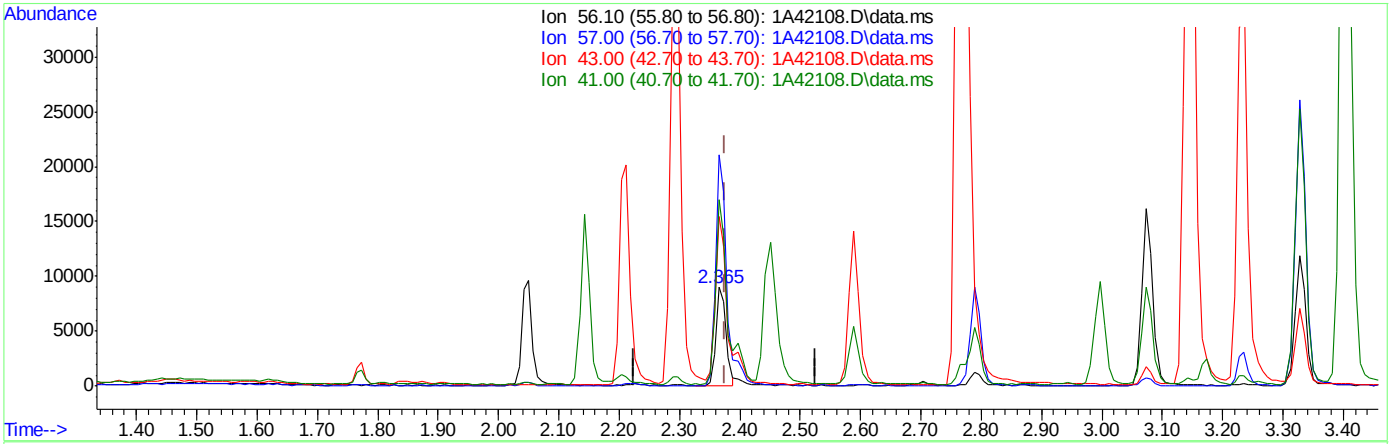
response 11713

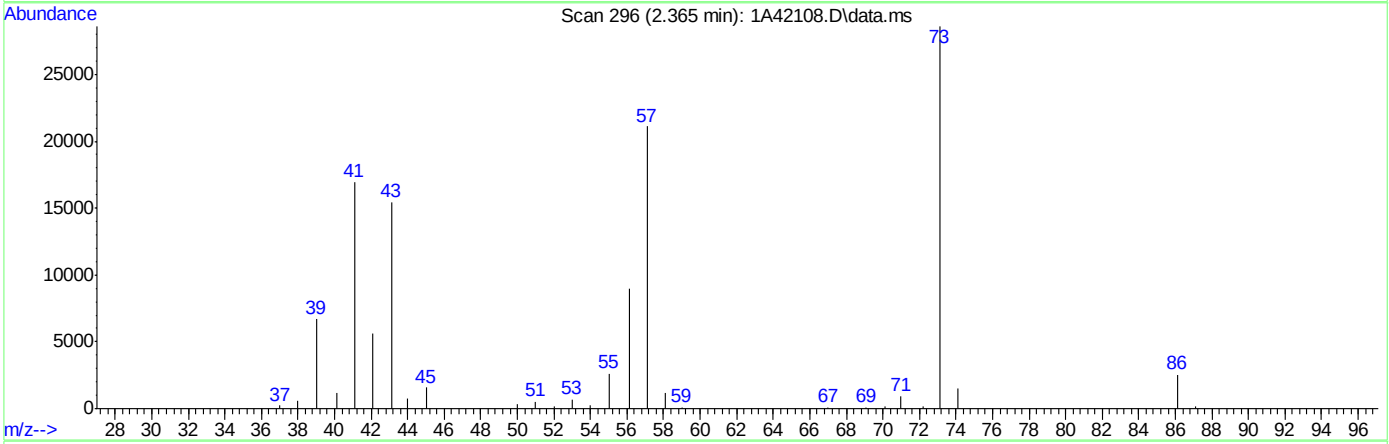
Ion	Exp%	Act%
56.10	100	100
57.00	257.60	234.65#
43.00	191.30	169.08#
41.00	225.50	186.75#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42108.D
Acq On : 12 Dec 2022 12:51 pm
Operator : joannel
Sample : IC1696-3
Misc : MS52217,V1A1695,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 15:22:18 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42108.D\data.ms

(22) Hexane

2.365min (-0.011) 13.01ug/L m

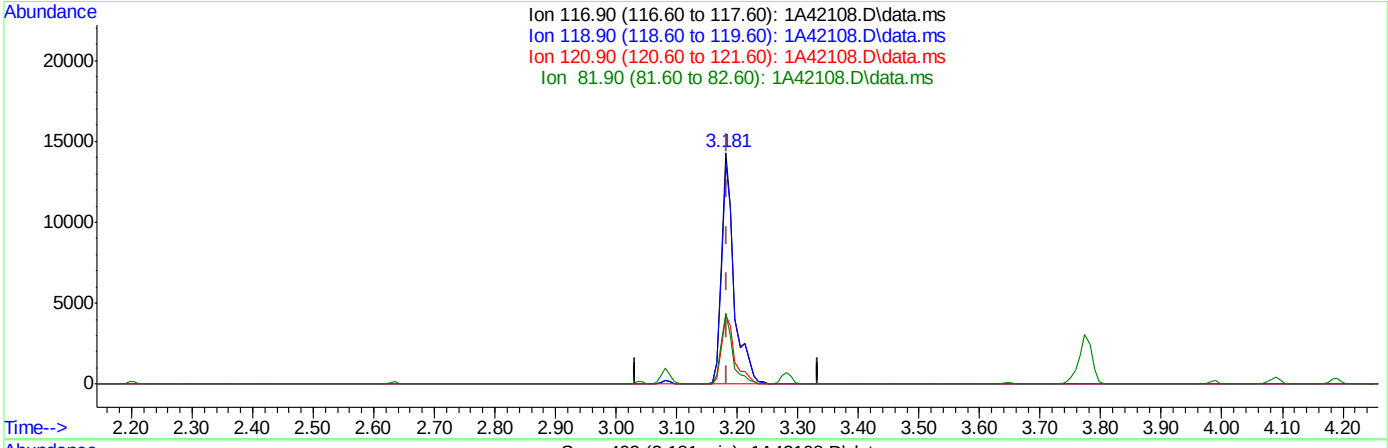
response 10782

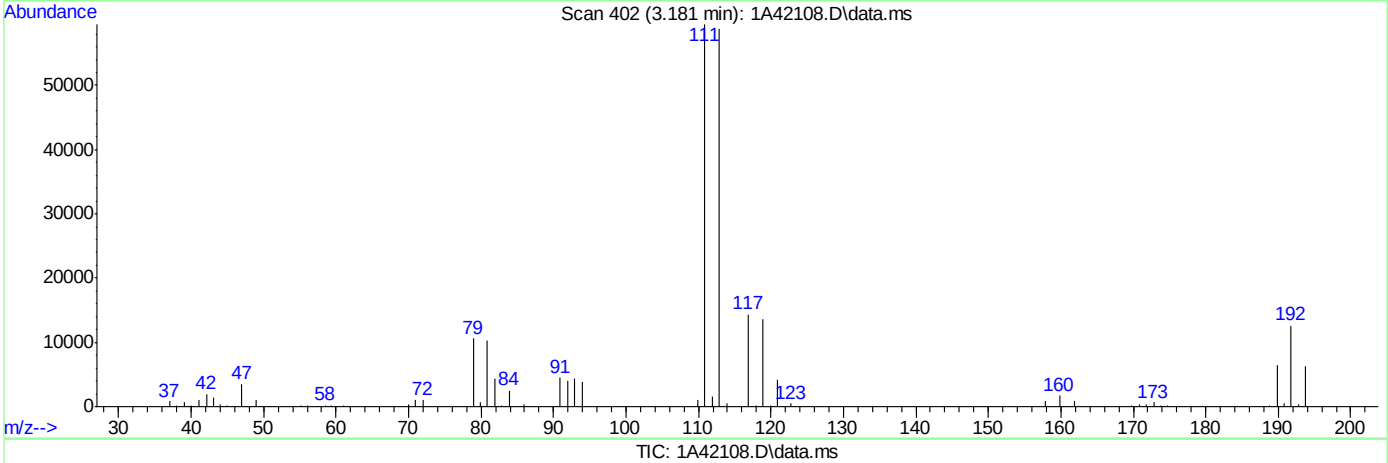
Ion	Exp%	Act%
56.10	100	100
57.00	257.60	234.65#
43.00	191.30	171.69
41.00	225.50	188.84#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42108.D
Acq On : 12 Dec 2022 12:51 pm
Operator : joannel
Sample : IC1696-3
Misc : MS52217,V1A1695,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 15:22:18 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42108.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (-0.002) 15.87ug/L

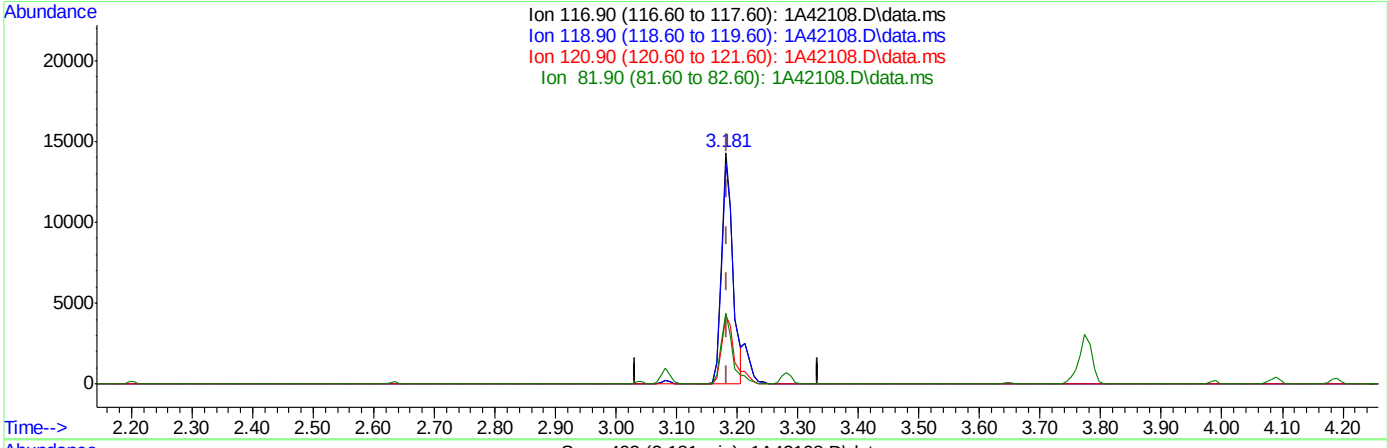
response 20947

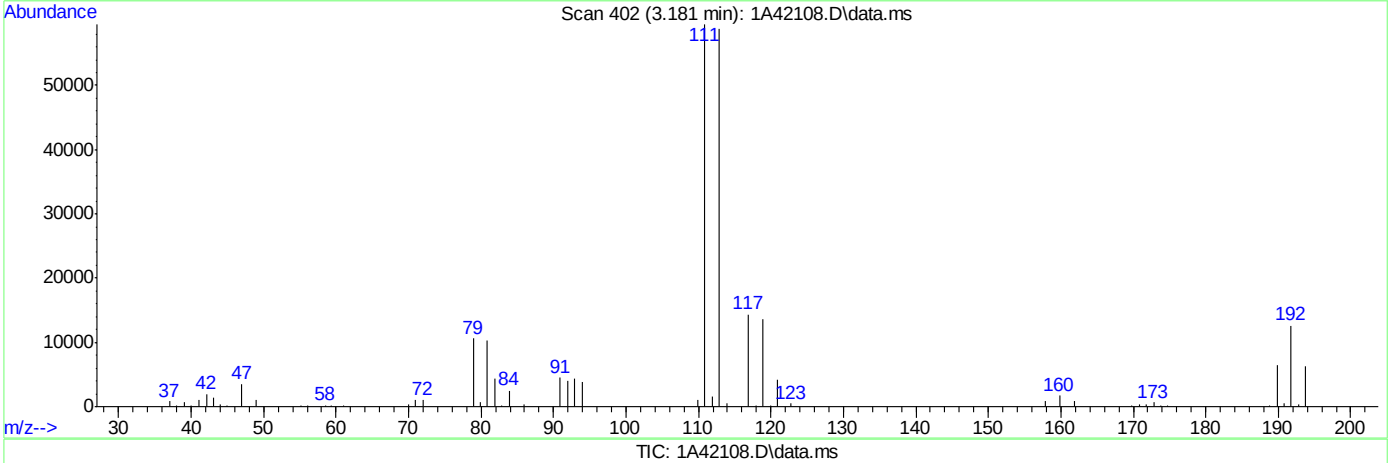
Ion	Exp%	Act%
116.90	100	100
118.90	88.40	95.67
120.90	29.50	29.59
81.90	25.50	30.79

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42108.D
Acq On : 12 Dec 2022 12:51 pm
Operator : joannel
Sample : IC1696-3
Misc : MS52217,V1A1695,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 15:22:18 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42108.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (-0.002) 14.20ug/L m

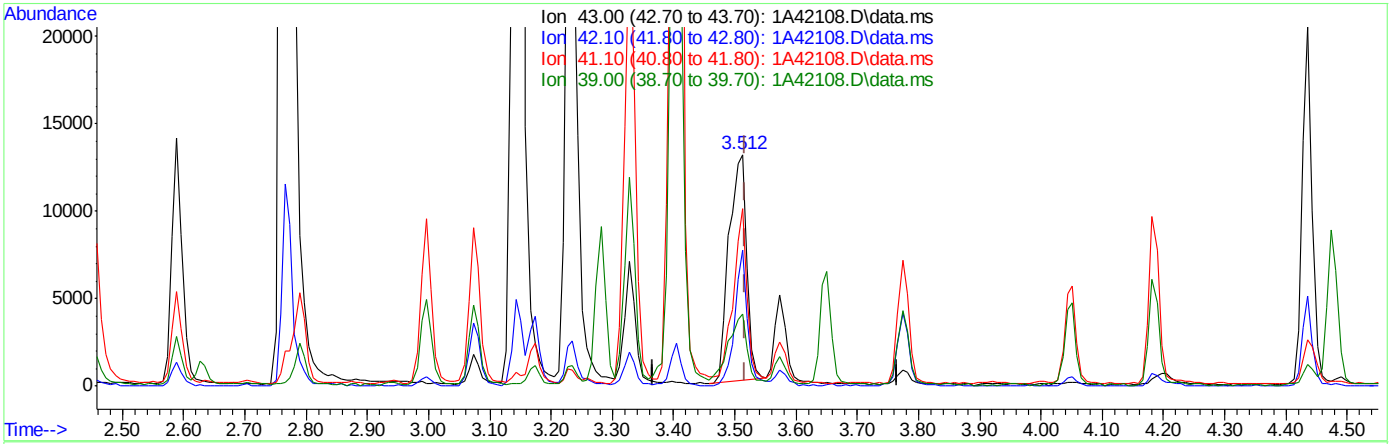
response 18684

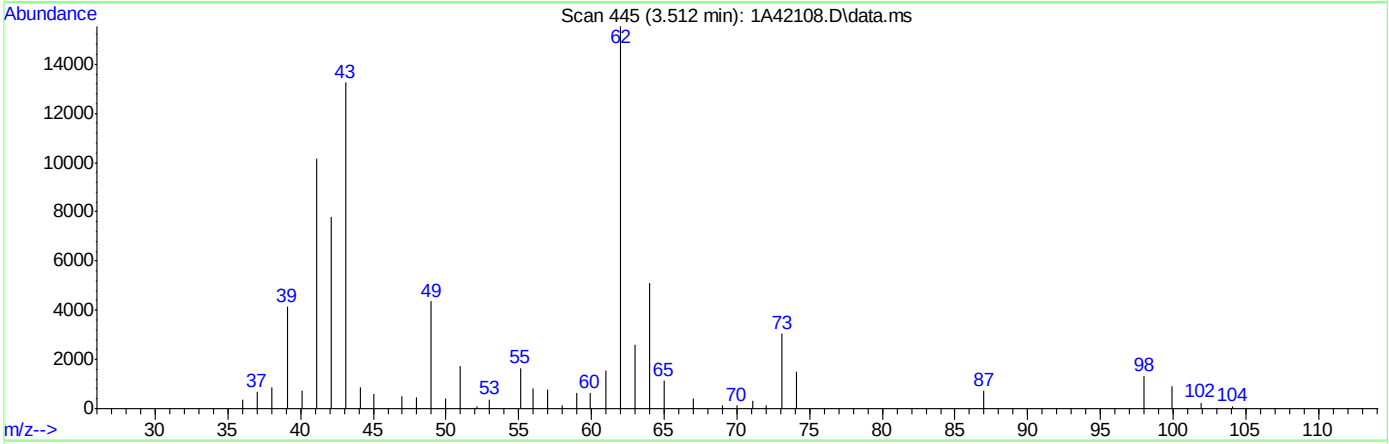
Ion	Exp%	Act%
116.90	100	100
118.90	88.40	95.67
120.90	29.50	29.59
81.90	25.50	30.79

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42108.D
Acq On : 12 Dec 2022 12:51 pm
Operator : joannel
Sample : IC1696-3
Misc : MS52217,V1A1695,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 15:22:18 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42108.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.005) 205.99ug/L

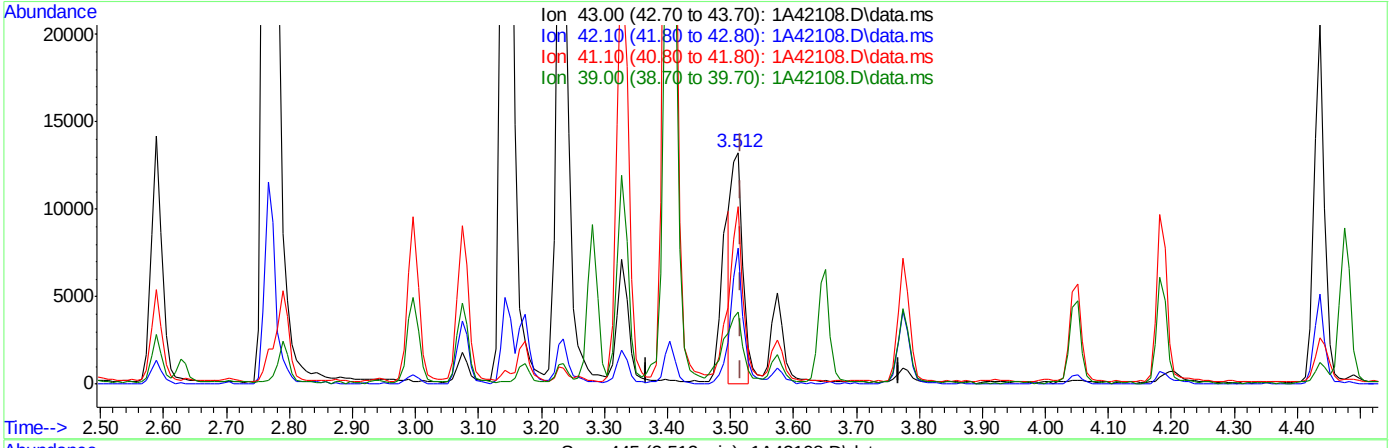
response 25950

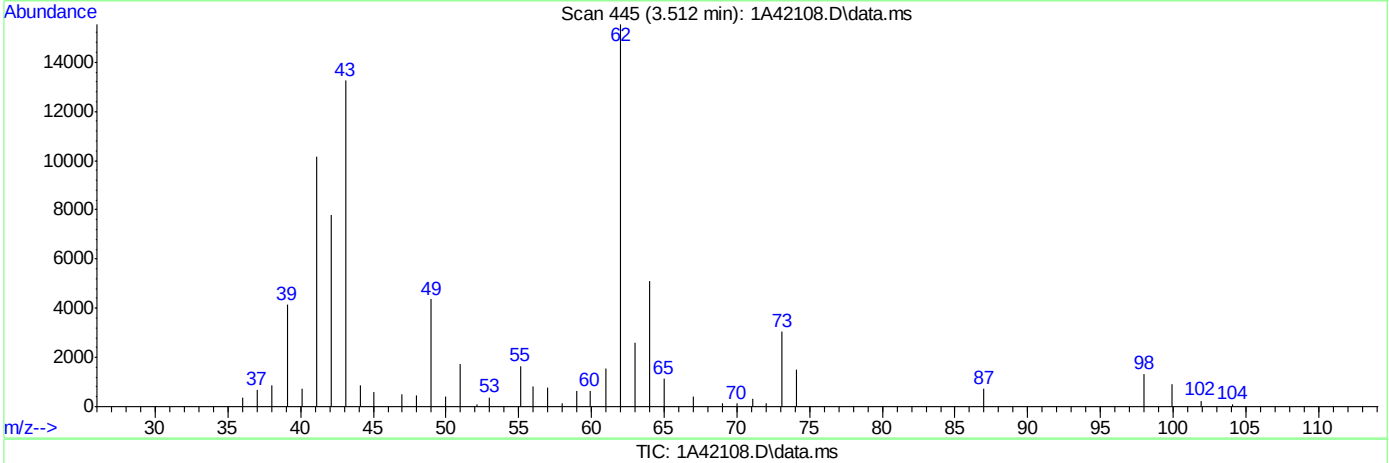
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	59.34
41.10	70.50	73.57
39.00	29.30	29.34

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42108.D
Acq On : 12 Dec 2022 12:51 pm
Operator : joannel
Sample : IC1696-3
Misc : MS52217,V1A1695,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 15:22:18 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42108.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.005) 127.14ug/L m

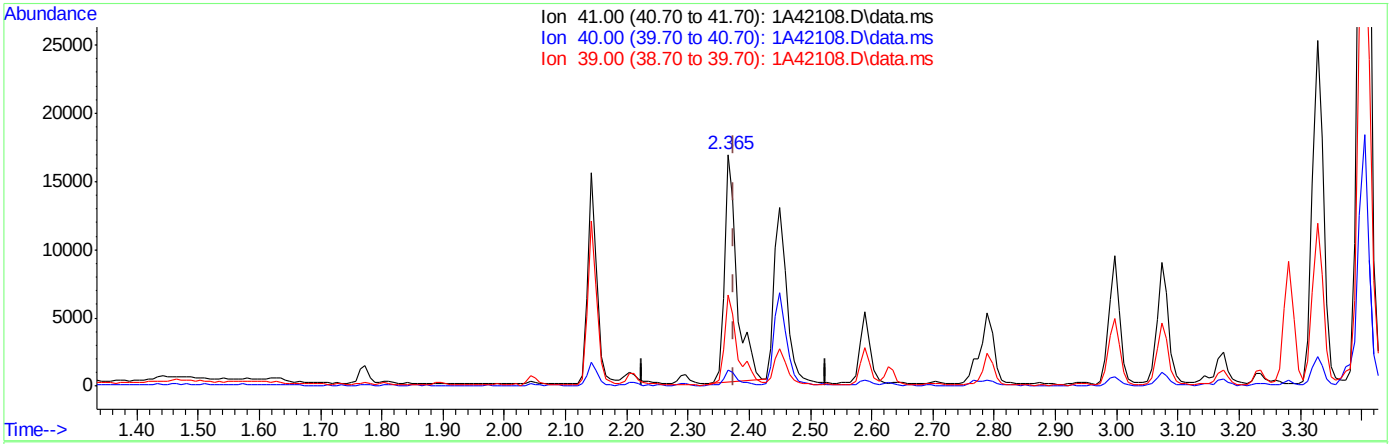
response 16080

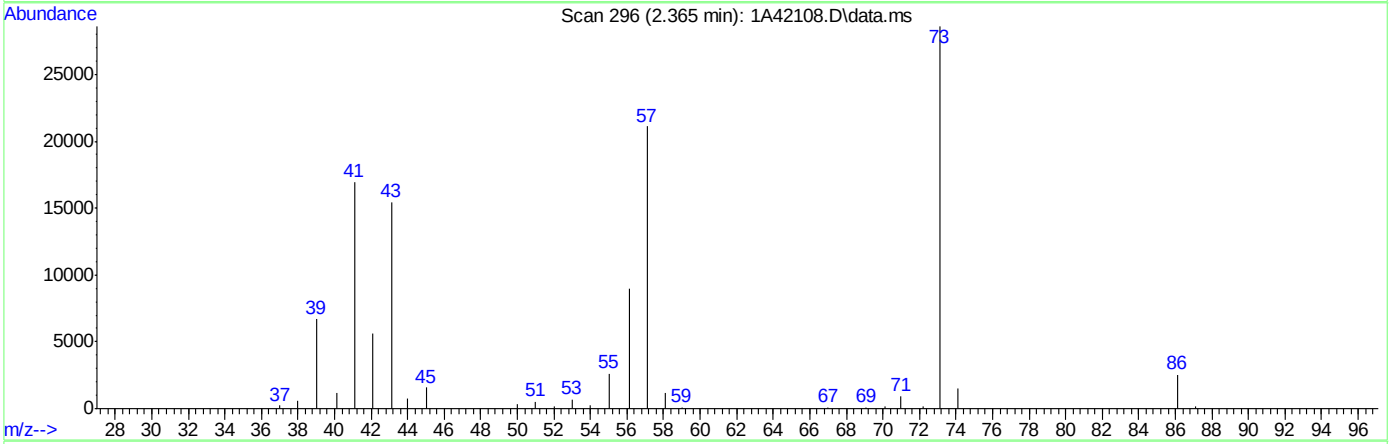
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	58.74
41.10	70.50	76.57
39.00	29.30	31.16

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42108.D
Acq On : 12 Dec 2022 12:51 pm
Operator : joannel
Sample : IC1696-3
Misc : MS52217,V1A1695,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 15:33:12 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42108.D\data.ms

(24) Acetonitrile

2.365min (-0.011) 114.69ug/L

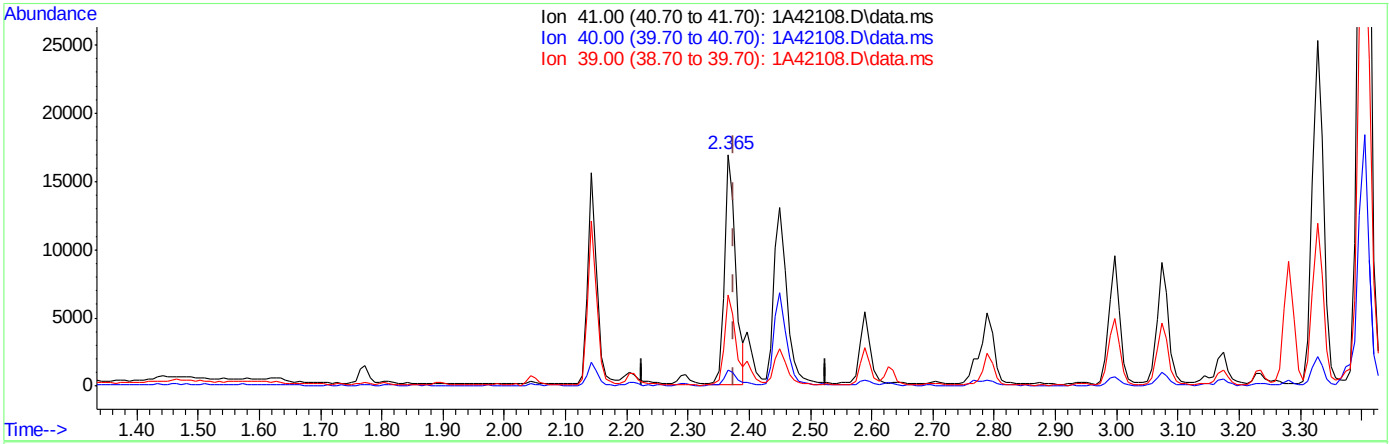
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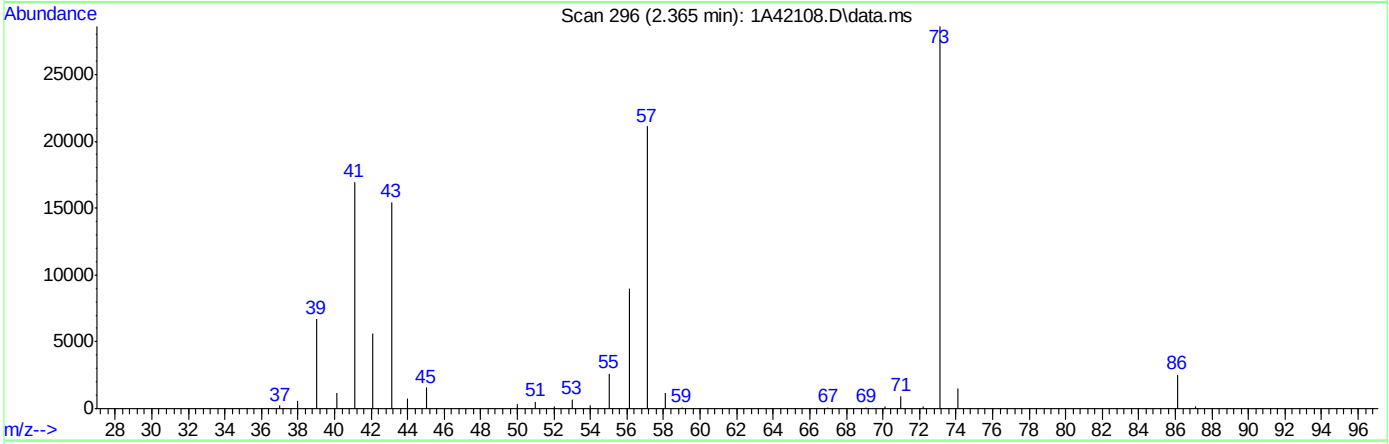
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.61
39.00	39.30	39.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42108.D
Acq On : 12 Dec 2022 12:51 pm
Operator : joannel
Sample : IC1696-3
Misc : MS52217,V1A1695,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 15:33:12 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42108.D\data.ms

(24) Acetonitrile

2.365min (-0.011) 102.71ug/L m

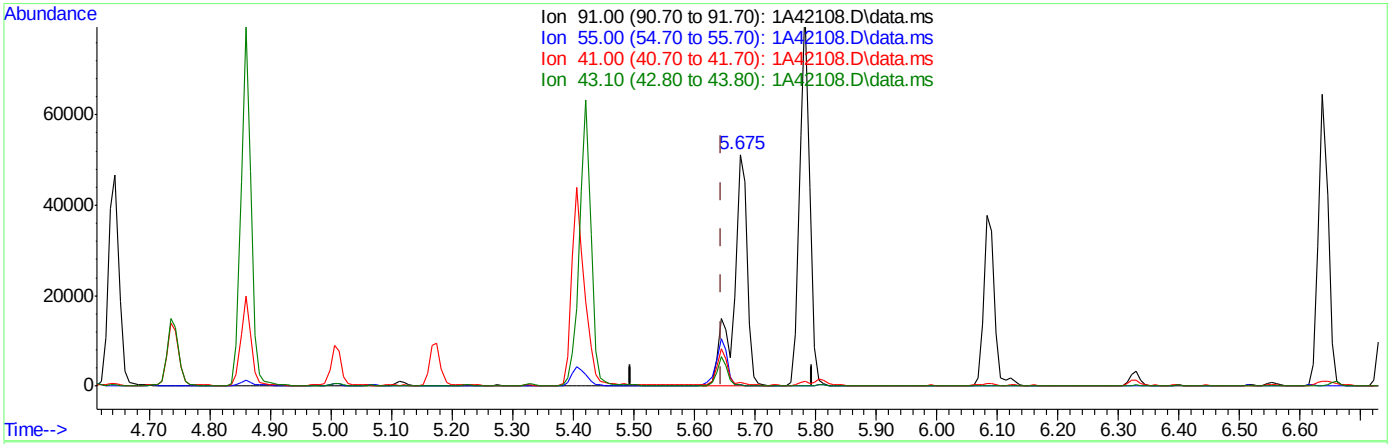
response 20994

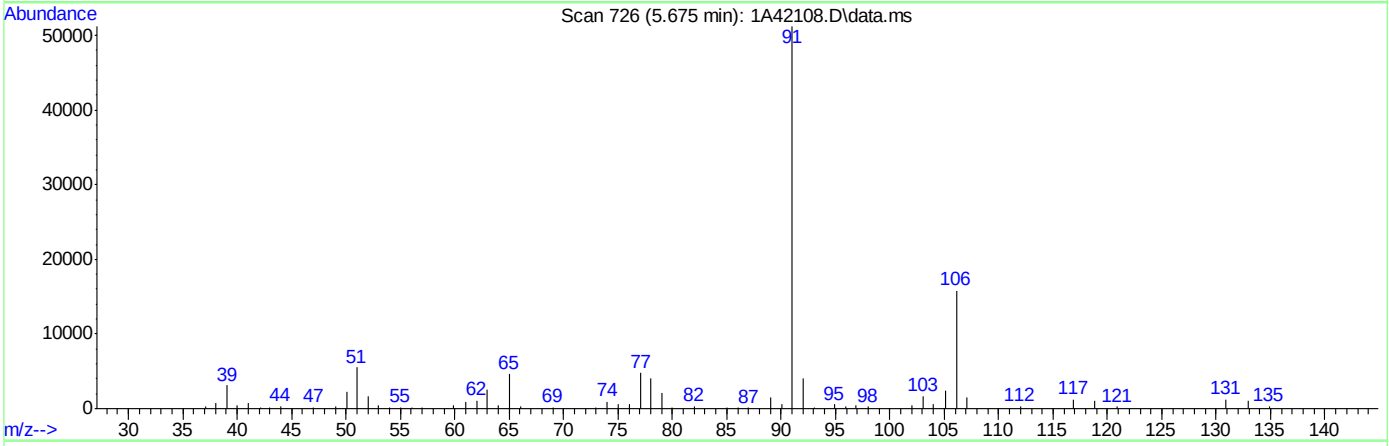
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	7.12
39.00	39.30	39.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42108.D
Acq On : 12 Dec 2022 12:51 pm
Operator : joannel
Sample : IC1696-3
Misc : MS52217,V1A1695,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 15:33:12 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42108.D\data.ms

(76) 1-Chlorohexane

5.675min (+0.030) 44.86ug/L

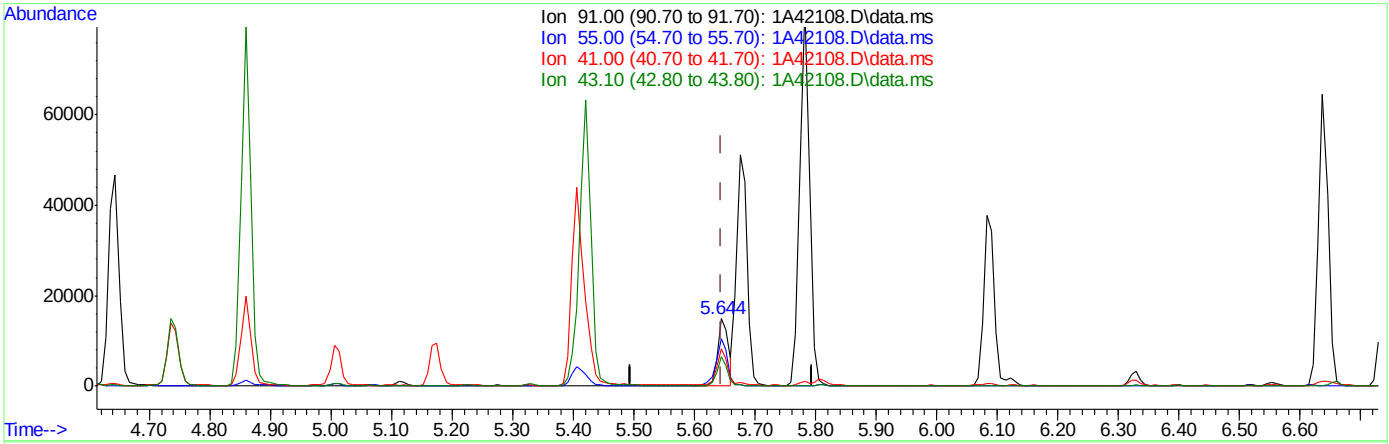
response 80171

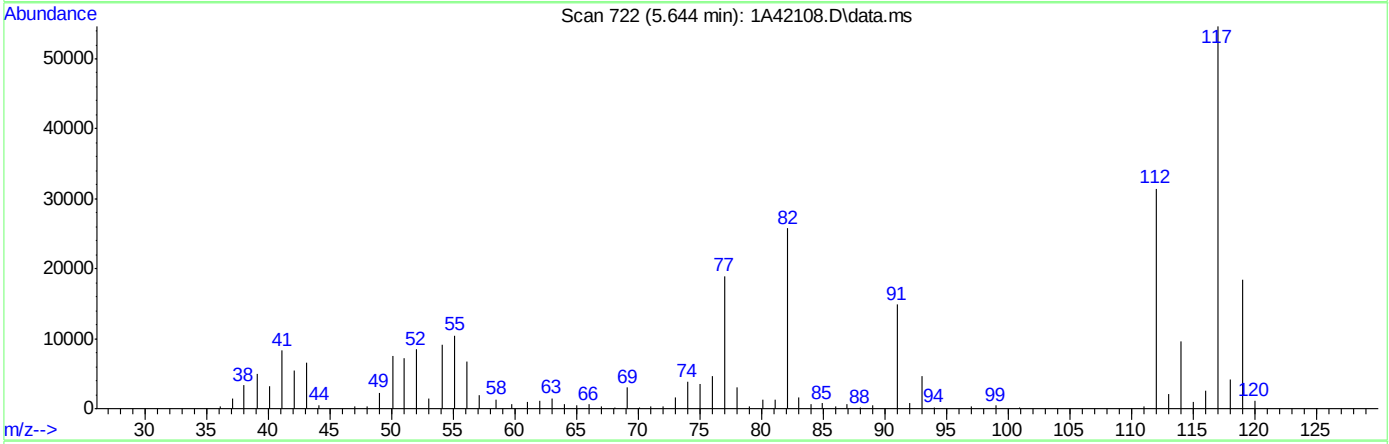
Ion	Exp%	Act%
91.00	100	100
55.00	65.30	0.17#
41.00	65.50	0.97#
43.10	48.90	0.18#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42108.D
Acq On : 12 Dec 2022 12:51 pm
Operator : joannel
Sample : IC1696-3
Misc : MS52217,V1A1695,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 15:33:12 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42108.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.001) 10.58ug/L m

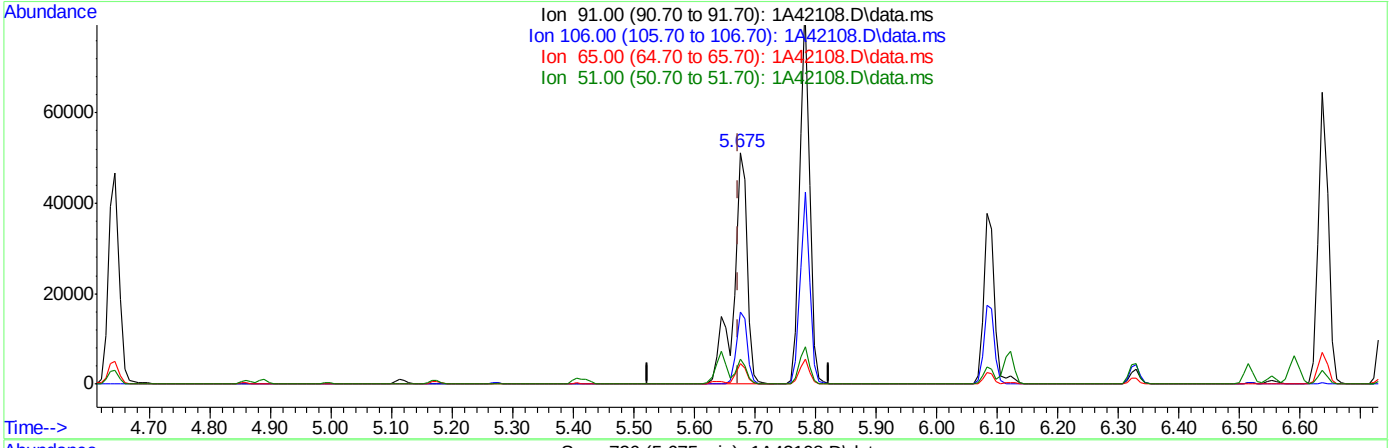
response 18911

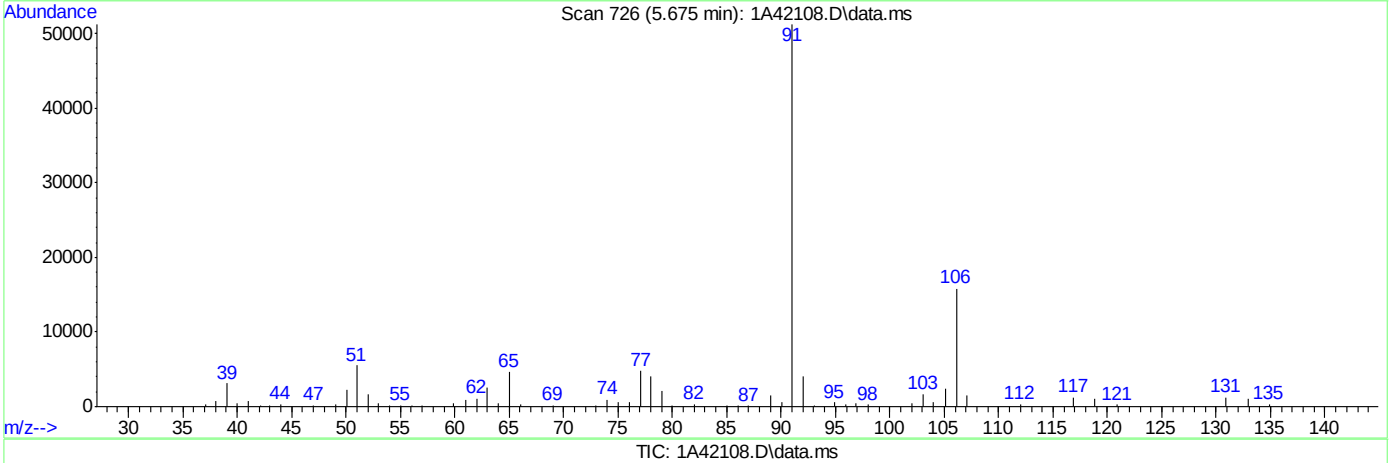
Ion	Exp%	Act%
91.00	100	100
55.00	65.30	70.27
41.00	65.50	55.86
43.10	48.90	44.06

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42108.D
Acq On : 12 Dec 2022 12:51 pm
Operator : joannel
Sample : IC1696-3
Misc : MS52217,V1A1695,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 15:39:13 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42108.D\data.ms

(77) Ethylbenzene (C)

5.675min (+0.002) 13.65ug/L

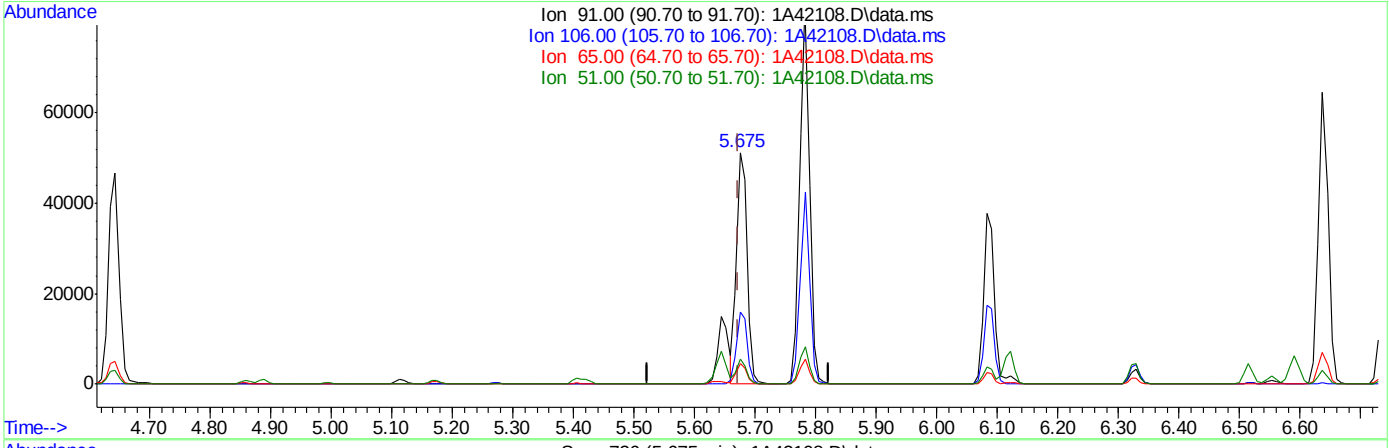
response 80171

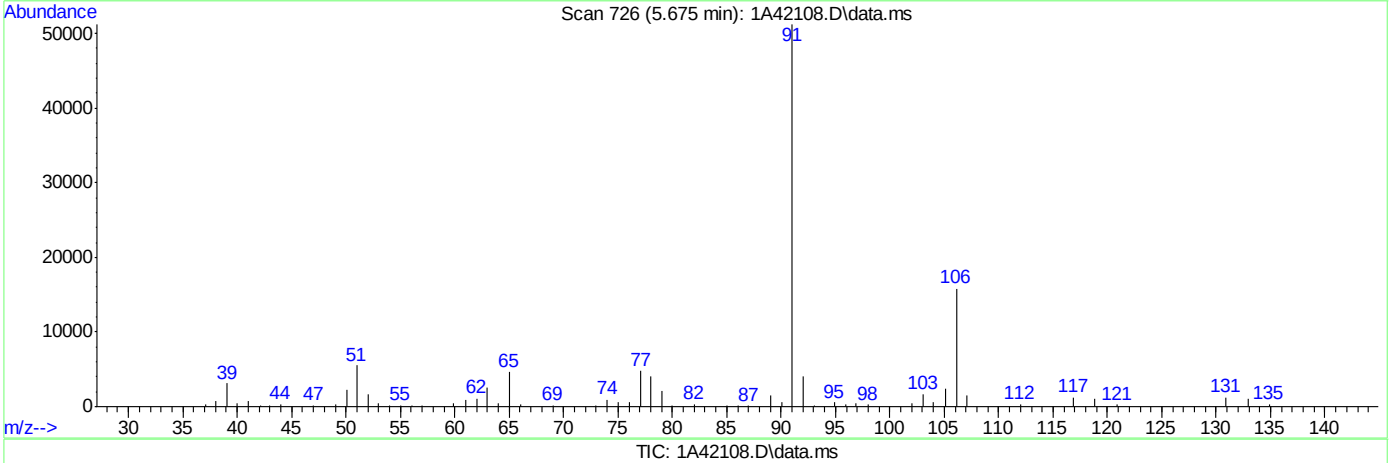
Ion	Exp%	Act%
91.00	100	100
106.00	34.20	30.92
65.00	8.60	8.97
51.00	10.30	10.81

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42108.D
Acq On : 12 Dec 2022 12:51 pm
Operator : joannel
Sample : IC1696-3
Misc : MS52217,V1A1695,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 15:39:13 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42108.D\data.ms

(77) Ethylbenzene (C)

5.675min (+0.002) 10.44ug/L m

response 61299

Ion	Exp%	Act%
91.00	100	100
106.00	34.20	30.92
65.00	8.60	8.97
51.00	10.30	10.81

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 12/13/22 12:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42109.D
Acq On : 12 Dec 2022 1:14 pm
Operator : joannel
Sample : IC1696-4
Misc : MS52217,V1A1696,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 15:47:30 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.651	96	221901	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.636	117	178133	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	94047	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.181	113	70282	56.65	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 113.30%				
49) 1,2-Dichloroethane-d4	3.474	65	73340	55.51	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 111.02%				
63) Toluene-d8	4.605	98	223077	56.30	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 112.60%#				
86) 4-Bromofluorobenzene	6.514	174	80296	56.69	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 113.38%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.034	85	40850	43.24	ug/L		93
3) Chloromethane	1.157	50	34159	28.97	ug/L		93
4) 1,3-butadiene	1.219	39	26972	18.15	ug/L		92
5) Vinyl Chloride	1.211	62	35846	24.04	ug/L		95
6) Bromomethane	1.411	94	22828	11.23	ug/L		99
7) Chloroethane	1.480	64	10156	5.24	ug/L		90
8) Trichlorofluoromethane	1.580	101	53655	11.21	ug/L		97
9) Ethyl Ether	1.773	59	23796	25.13	ug/L		89
10) Ethanol	1.850	45	10116	421.23	ug/L		96
11) 1,2-Dichlorotrifluoroe...	1.873	67	36802	32.51	ug/L		97
12) 1,1-Dichloroethene	1.880	61	44028	30.17	ug/L		93
13) Freon 113	1.911	101	32308	35.66	ug/L		97
14) Carbon Disulfide	1.896	76	84596	32.21	ug/L		87
15) Iodomethane	1.957	142	32347	24.97	ug/L		98
16) Acrolein	2.050	56	38239	114.47	ug/L		100
17) Allyl chloride	2.142	41	40507	33.61	ug/L		96
18) Methylene Chloride	2.204	49	36627	26.15	ug/L		81
19) Acetone	2.211	43	51688	90.37	ug/L		95
20) Methyl acetate	2.296	43	120753	80.13	ug/L		90
21) trans-1,2-Dichloroethene	2.304	61	42427	29.13	ug/L		96
22) Hexane	2.373	56	25012m	29.19	ug/L		
23) Methyl Tert Butyl Ether	2.373	73	89025	31.54	ug/L		75
24) Acetonitrile	2.373	41	48847m	235.12	ug/L		
25) Tert Butyl Alcohol	2.404	59	56902	201.79	ug/L		94
26) Di-isopropyl ether	2.588	45	83636	22.54	ug/L		94
27) Chloroprene	2.635	53	107959	19.71	ug/L		94
28) 1,1-Dichloroethane	2.635	63	53804	25.94	ug/L		97
29) Acrylonitrile	2.635	52	64933	90.04	ug/L		96
30) ETBE	2.789	59	90755	25.82	ug/L		98
31) Vinyl acetate	2.773	43	307168	120.47	ug/L		97
32) cis-1,2-Dichloroethene	2.935	96	33094	28.24	ug/L		94
33) 2,2-Dichloropropane	2.996	77	49216	35.92	ug/L		97
34) Bromochloromethane	3.043	128	16413	29.20	ug/L	#	76
35) Cyclohexane	3.073	56	50240	27.22	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42109.D
Acq On : 12 Dec 2022 1:14 pm
Operator : joannel
Sample : IC1696-4
Misc : MS52217,V1A1696,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 15:47:30 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.081	83	58870	28.82	ug/L		96
37) Ethyl acetate	3.143	43	174377	86.13	ug/L		94
38) Tetrahydrofuran	3.173	42	11243	15.76	ug/L		91
40) Carbon Tetrachloride	3.181	117	44004m	31.65	ug/L		
41) 1,1,1-Trichloroethane	3.212	97	49981	31.34	ug/L		99
42) 2-Butanone	3.235	43	93500	83.76	ug/L		87
43) 1,1-Dichloropropene	3.281	75	43863	29.83	ug/L		92
44) tert-Butyl formate	3.327	59	151480	208.23	ug/L		89
45) Propionitrile	3.381	54	57847	155.96	ug/L		98
46) Methacrylonitrile	3.404	41	214180	150.81	ug/L		99
47) Benzene	3.420	78	125401	22.52	ug/L		83
48) TAME	3.497	73	87019	26.32	ug/L		93
50) 1,2-Dichloroethane	3.512	62	42780	23.26	ug/L		93
51) Isobutyl Alcohol	3.512	43	31863m	247.04	ug/L		
52) Tert Amyl Alcohol	3.574	59	46668	179.41	ug/L		94
53) Trichloroethene	3.758	95	34996	24.13	ug/L		95
54) Methylcyclohexane	3.774	83	55383	27.39	ug/L		93
55) Dibromomethane	3.989	93	21275	24.06	ug/L		97
56) 1,2-Dichloropropane	4.051	63	31476	24.19	ug/L		89
57) Bromodichloromethane	4.089	83	40985	26.07	ug/L		91
58) Methyl methacrylate	4.182	41	29892	21.02	ug/L		88
59) 1,4-Dioxane	4.205	88	9281	358.14	ug/L		91
60) 2-Chloroethyl vinyl ether	4.436	63	125520	132.90	ug/L		88
61) cis-1,3-Dichloropropene	4.474	75	50304	28.99	ug/L		87
64) Toluene	4.643	91	133574	25.25	ug/L		96
65) 2-Nitropropane	4.736	41	45025	100.88	ug/L		96
66) 4-Methyl-2-pentanone	4.859	43	185272	83.31	ug/L		90
67) trans-1,3-Dichloropropene	4.890	75	44124	29.87	ug/L		86
68) Tetrachloroethene	4.905	166	38019	25.41	ug/L		95
69) Ethyl methacrylate	5.013	69	43201	34.10	ug/L	#	74
70) 1,1,2-Trichloroethane	4.990	83	24779	26.93	ug/L		95
71) Dibromochloromethane	5.121	129	32466	24.89	ug/L		93
72) 1,3-Dichloropropane	5.174	76	49910	28.92	ug/L		88
73) 1,2-Dibromoethane	5.275	107	31950	25.17	ug/L		93
74) 3,3-Dimethyl-1-Butanol	5.405	57	280252	1127.73	ug/L		90
75) 2-hexanone	5.421	43	183072	83.55	ug/L		75
76) 1-Chlorohexane	5.644	91	44003m	24.13	ug/L		
77) Ethylbenzene	5.675	91	144364m	24.10	ug/L		
78) Chlorobenzene	5.644	112	86516	22.59	ug/L		92
79) 1,1,1,2-Tetrachloroethane	5.690	131	31351	23.72	ug/L		94
80) m,p-Xylene	5.782	91	227399	48.79	ug/L		96
81) o-Xylene	6.090	91	116204	26.53	ug/L		97
82) Styrene	6.121	104	92153	25.15	ug/L		96
83) Bromoform	6.121	173	21884	25.50	ug/L		97
84) Isopropylbenzene	6.329	105	140287	24.52	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.552	53	13918	23.83	ug/L	#	85
88) n-Propylbenzene	6.637	91	168038	24.10	ug/L		95
89) Bromobenzene	6.591	156	37787	23.56	ug/L		92
90) 1,1,2,2-Tetrachloroethane	6.660	83	41493	20.83	ug/L		99
91) 1,3,5-Trimethylbenzene	6.791	105	122599	24.09	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42109.D
Acq On : 12 Dec 2022 1:14 pm
Operator : joannel
Sample : IC1696-4
Misc : MS52217,V1A1696,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 15:47:30 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

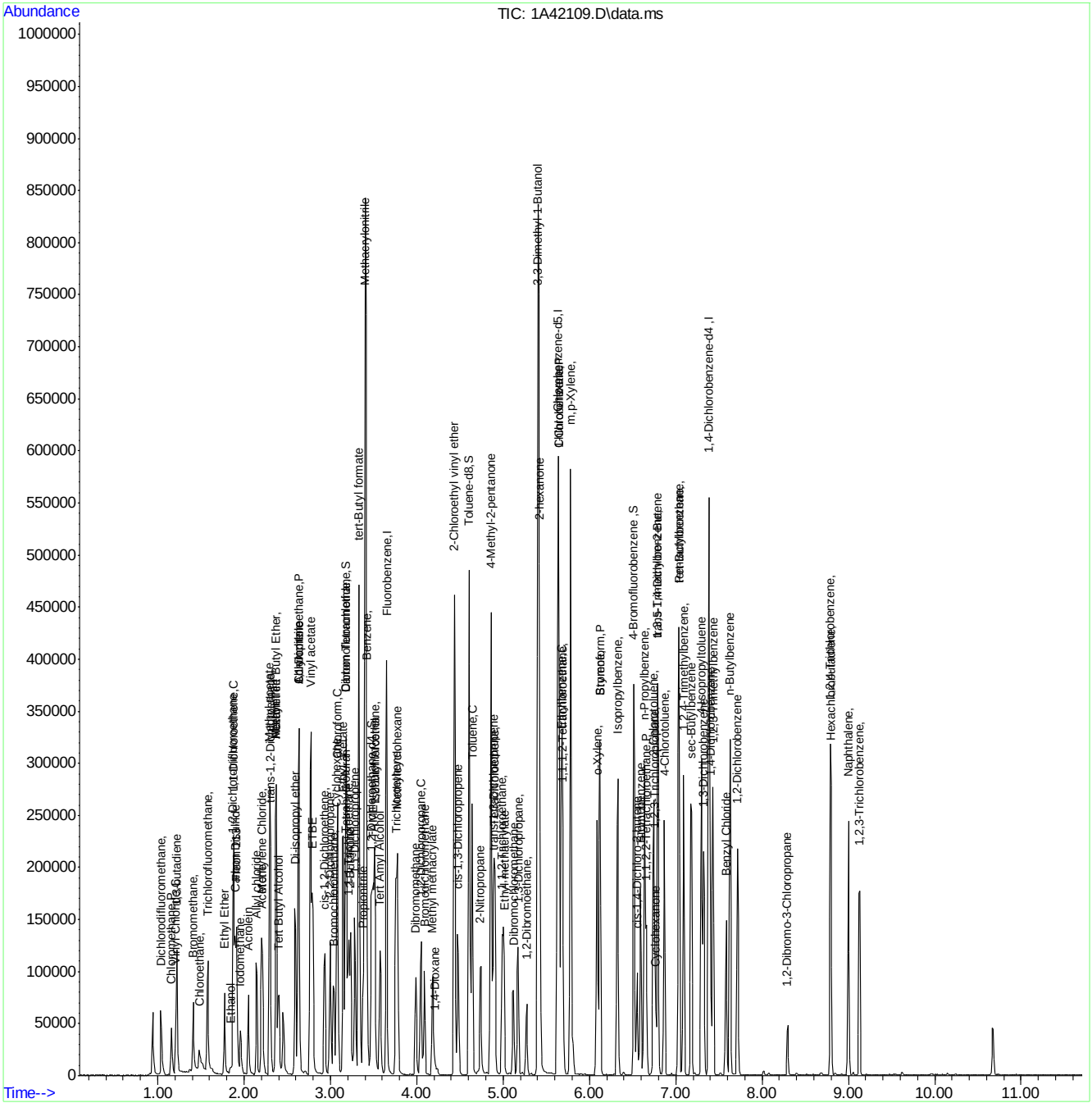
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.745	91	95973	25.68	ug/L		96
93)	trans-1,4-Dichloro-2-B...	6.791	53	15103	21.07	ug/L		85
94)	1,2,3-Trichloropropane	6.752	110	12802	18.93	ug/L		86
95)	Cyclohexanone	6.768	55	8593	77.49	ug/L		92
96)	4-Chlorotoluene	6.868	91	100325	25.11	ug/L		93
97)	tert-Butylbenzene	7.037	91	67906	25.29	ug/L		90
98)	1,2,4-Trimethylbenzene	7.091	105	117382	23.53	ug/L		100
99)	Pentachloroethane	7.037	167	21522	31.15	ug/L	#	63
100)	sec-Butylbenzene	7.176	105	144833	22.92	ug/L		95
101)	4-Isopropyltoluene	7.299	119	128470	22.57	ug/L		99
102)	1,3-Dichlorobenzene	7.322	146	66840	21.52	ug/L		94
103)	1,2,3-Trimethylbenzene	7.430	105	114334	24.26	ug/L		98
104)	1,4-Dichlorobenzene	7.399	146	68618	21.34	ug/L		98
105)	n-Butylbenzene	7.630	92	66066	25.08	ug/L		93
106)	Benzyl Chloride	7.583	126	16123	30.25	ug/L	#	74
107)	1,2-Dichlorobenzene	7.714	146	62545	22.70	ug/L		95
108)	1,2-Dibromo-3-Chloropr...	8.291	75	8293	27.49	ug/L	#	65
109)	Hexachlorobutadiene	8.799	225	24437	38.48	ug/L		88
110)	1,2,4-Trichlorobenzene	8.792	180	43312	28.37	ug/L		93
111)	Naphthalene	9.000	128	117008	21.22	ug/L		97
112)	1,2,3-Trichlorobenzene	9.130	180	40929	31.52	ug/L		95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42109.D
Acq On : 12 Dec 2022 1:14 pm
Operator : joannel
Sample : IC1696-4
Misc : MS52217,V1A1696,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 15:47:30 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration



Manual Integration Approval Summary

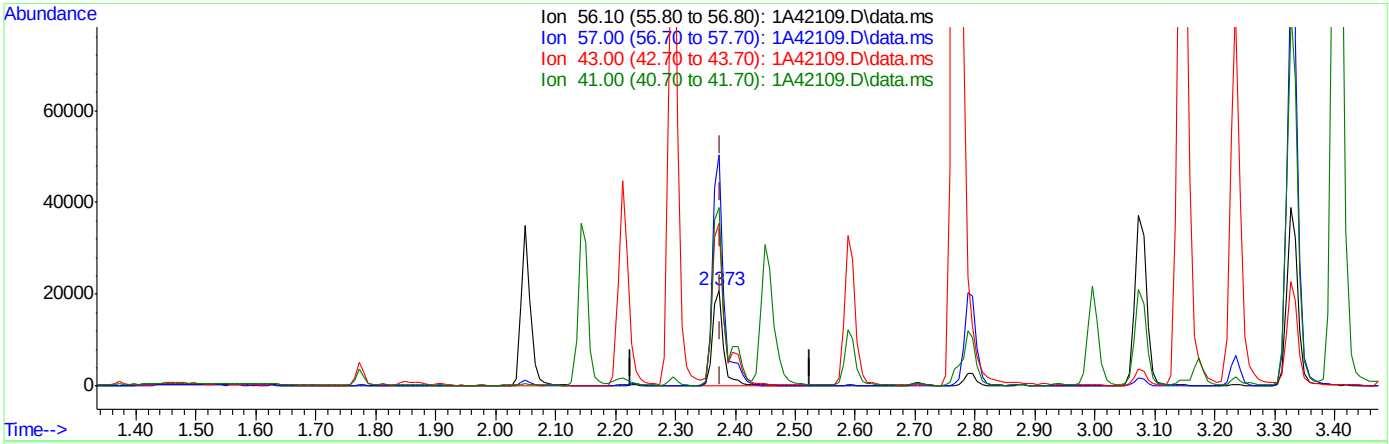
Sample Number: V1A1696-IC1696 **Method:** SW846 8260D
Lab FileID: 1A42109.D **Analyst approved:** 12/13/22 09:47 Jo-Ann Lugo De Jesus
Injection Time: 12/12/22 13:14 **Supervisor approved:** 12/13/22 12:21 Neil Christiana

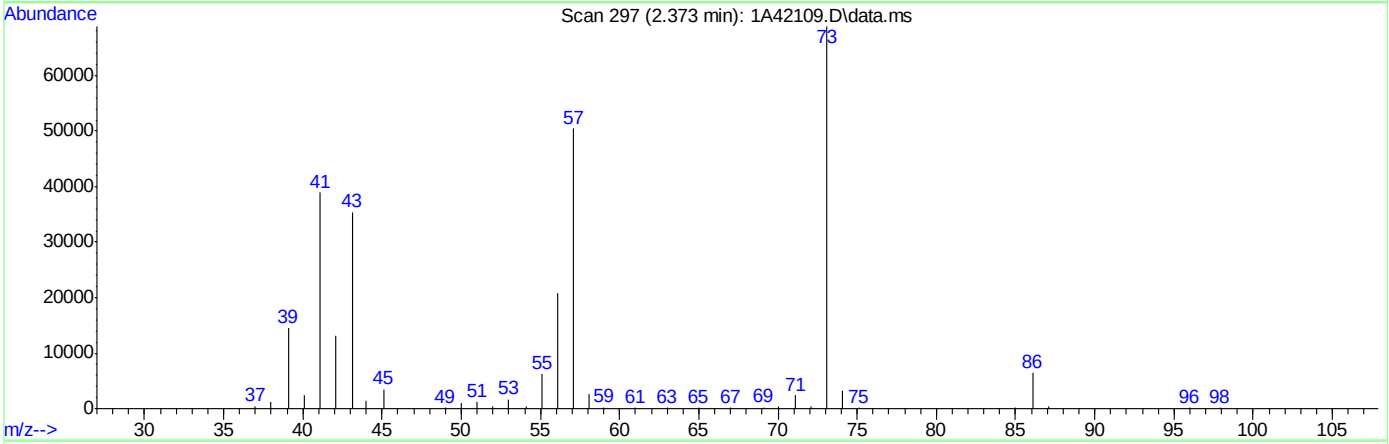
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		2.37	Overlapping peak
Acetonitrile	75-05-8		2.37	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.18	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration
Ethylbenzene	100-41-4		5.67	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42109.D
Acq On : 12 Dec 2022 1:14 pm
Operator : joannel
Sample : IC1696-4
Misc : MS52217,V1A1695,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 15:22:20 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42109.D\data.ms

(22) Hexane

2.373min (-0.003) 31.38ug/L

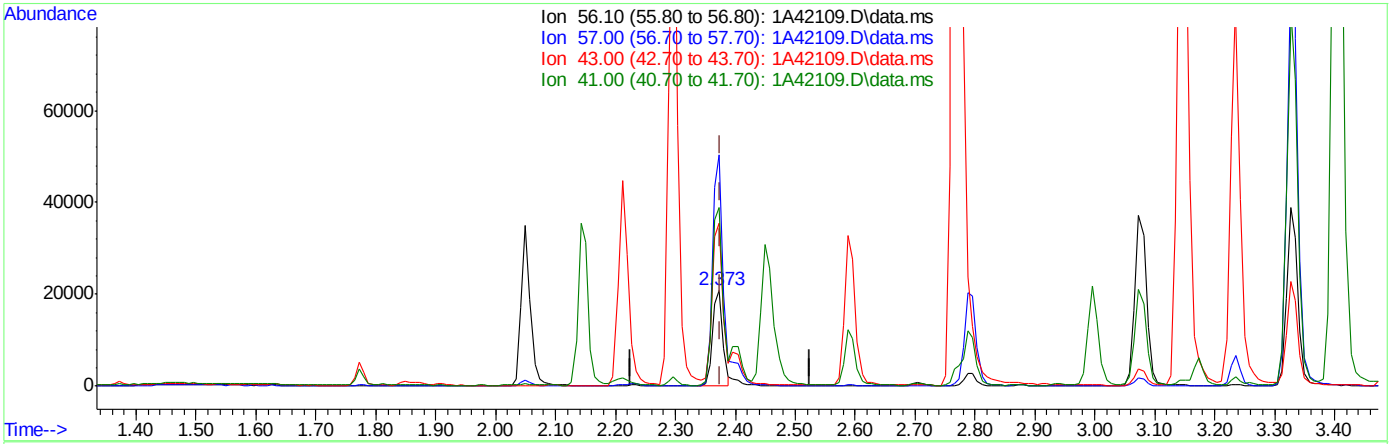
response 26914

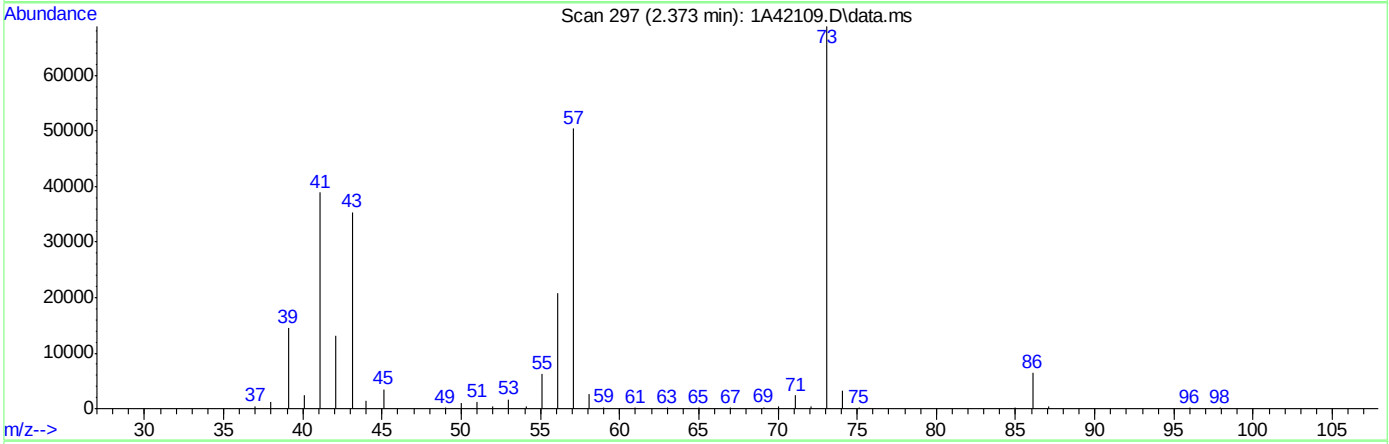
Ion	Exp%	Act%
56.10	100	100
57.00	257.60	241.98
43.00	191.30	168.23#
41.00	225.50	185.70#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42109.D
Acq On : 12 Dec 2022 1:14 pm
Operator : joannel
Sample : IC1696-4
Misc : MS52217,V1A1695,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 15:22:20 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42109.D\data.ms

(22) Hexane

2.373min (-0.003) 29.19ug/L m

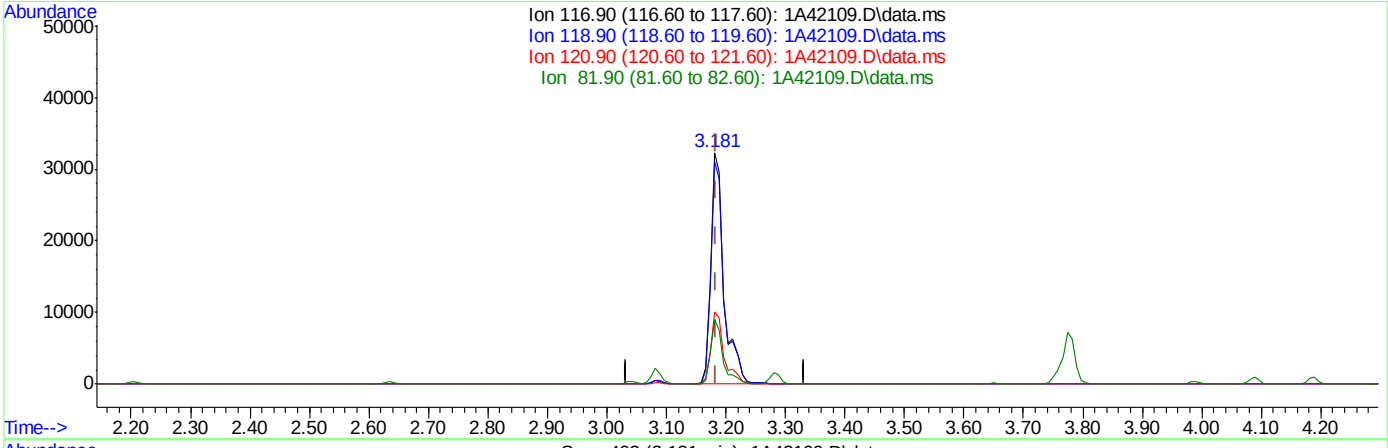
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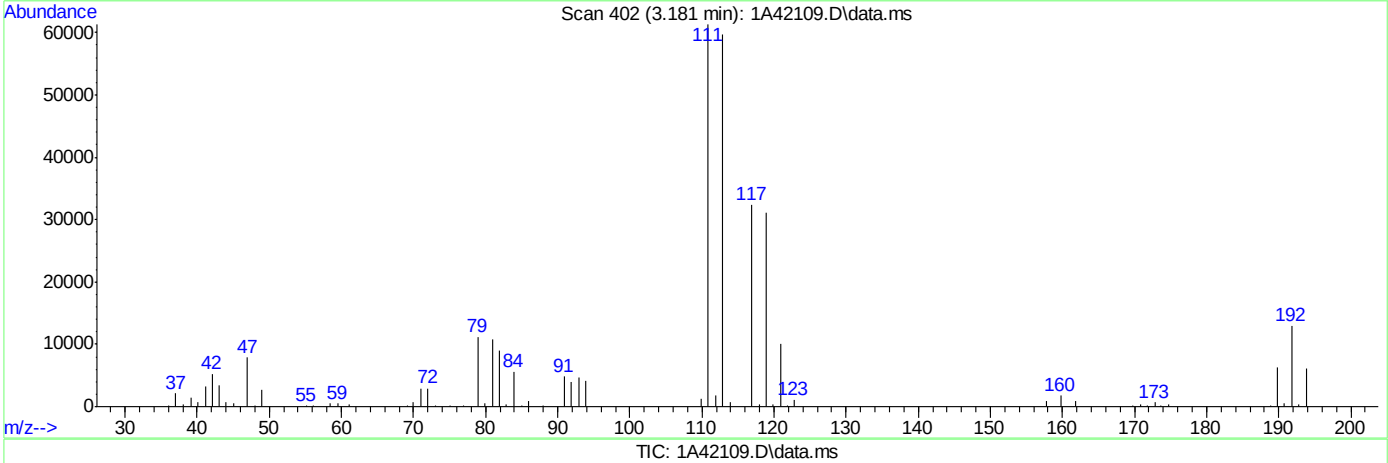
Ion	Exp%	Act%
56.10	100	100
57.00	257.60	241.98
43.00	191.30	169.72#
41.00	225.50	186.57#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42109.D
Acq On : 12 Dec 2022 1:14 pm
Operator : joannel
Sample : IC1696-4
Misc : MS52217,V1A1695,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 15:22:20 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42109.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (-0.002) 35.76ug/L

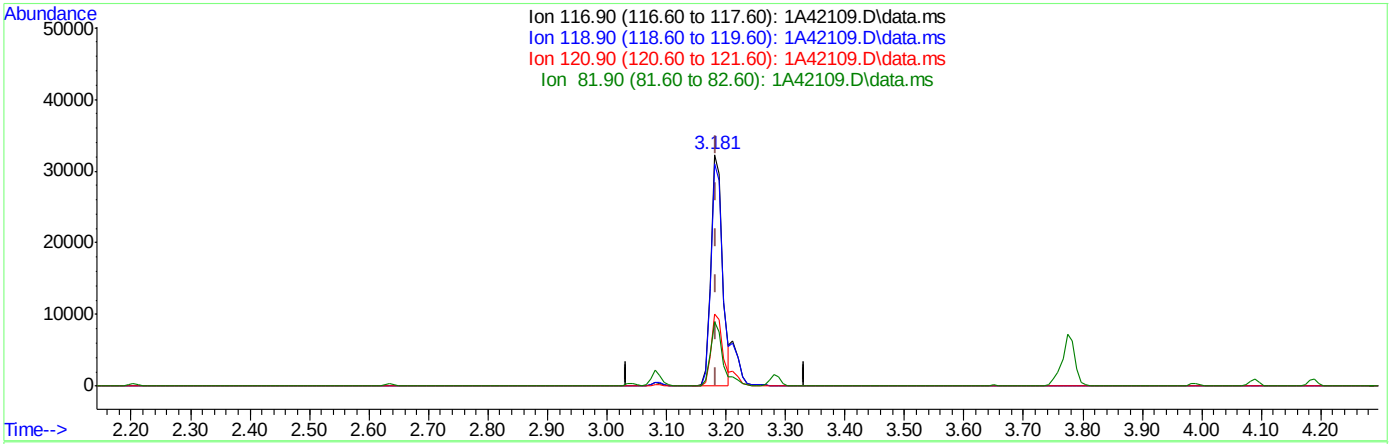
response 50042

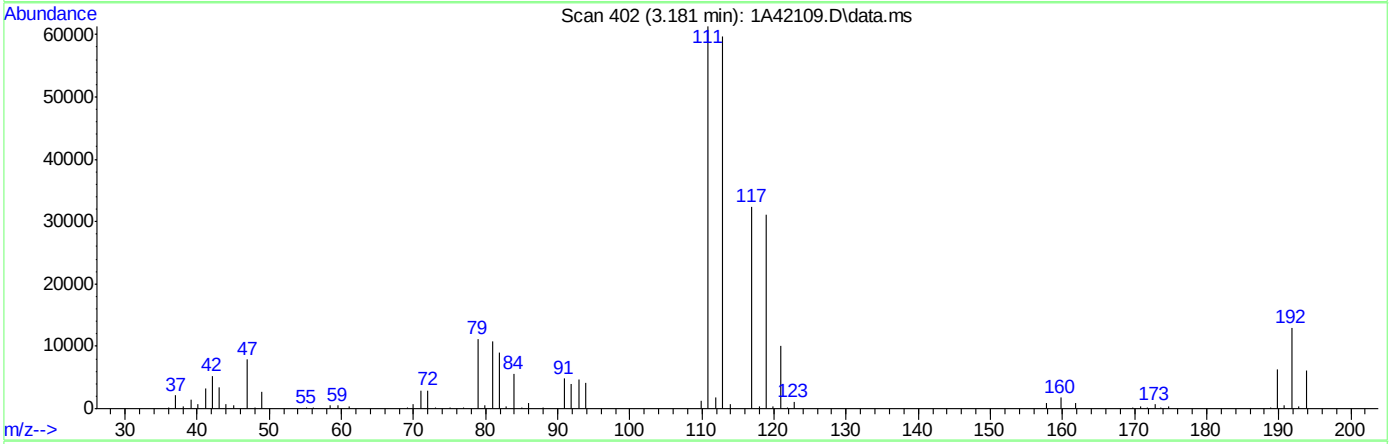
Ion	Exp%	Act%
116.90	100	100
118.90	88.40	96.04
120.90	29.50	30.95
81.90	25.50	27.85

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42109.D
Acq On : 12 Dec 2022 1:14 pm
Operator : joannel
Sample : IC1696-4
Misc : MS52217,V1A1695,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 15:22:20 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42109.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (-0.002) 31.65ug/L m

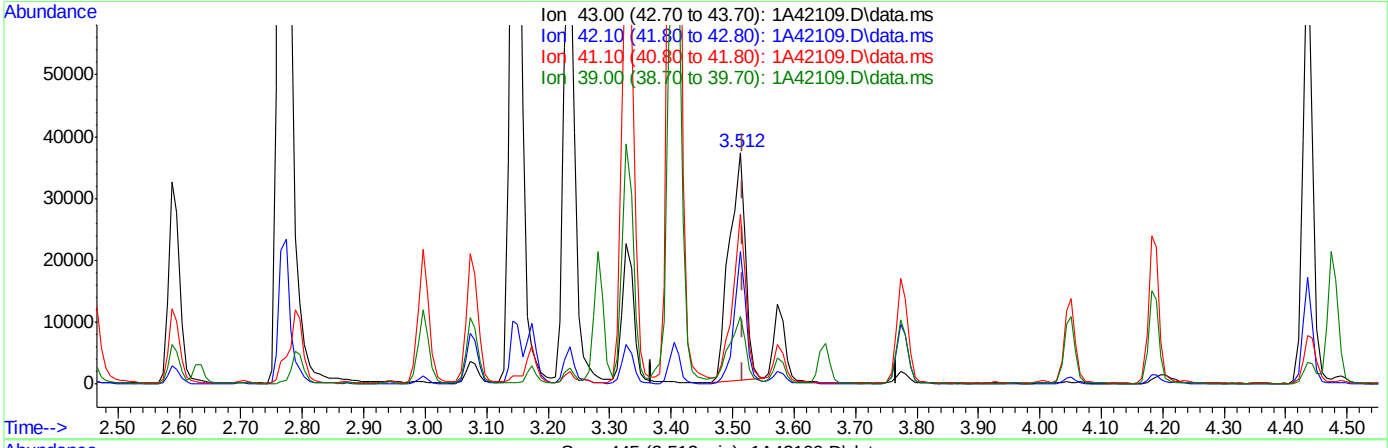
response 44004

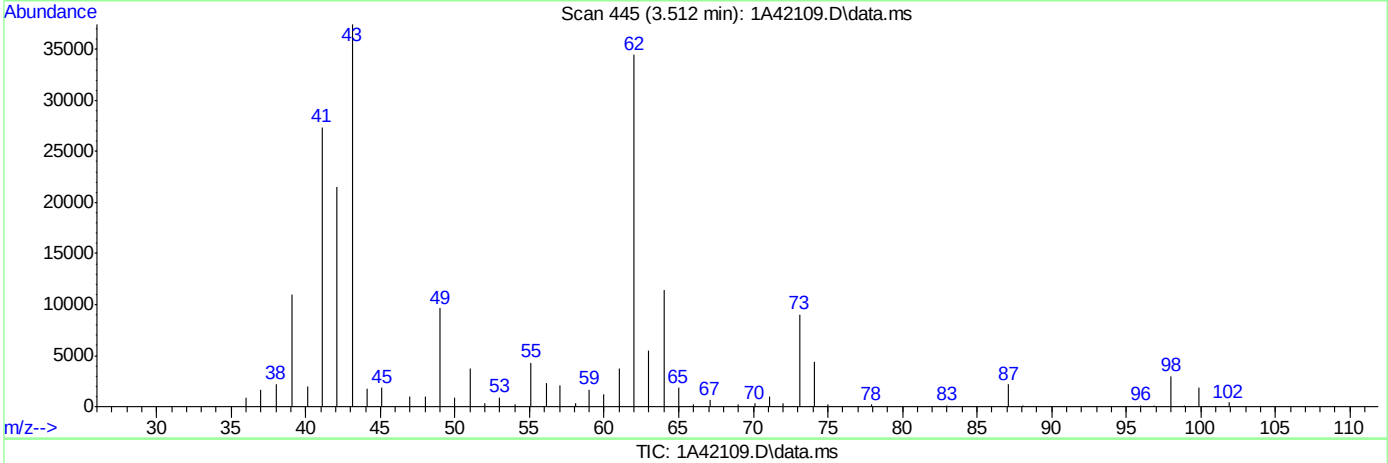
Ion	Exp%	Act%
116.90	100	100
118.90	88.40	96.04
120.90	29.50	30.95
81.90	25.50	27.85

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42109.D
Acq On : 12 Dec 2022 1:14 pm
Operator : joannel
Sample : IC1696-4
Misc : MS52217,V1A1695,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 15:22:20 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42109.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.005) 535.47ug/L

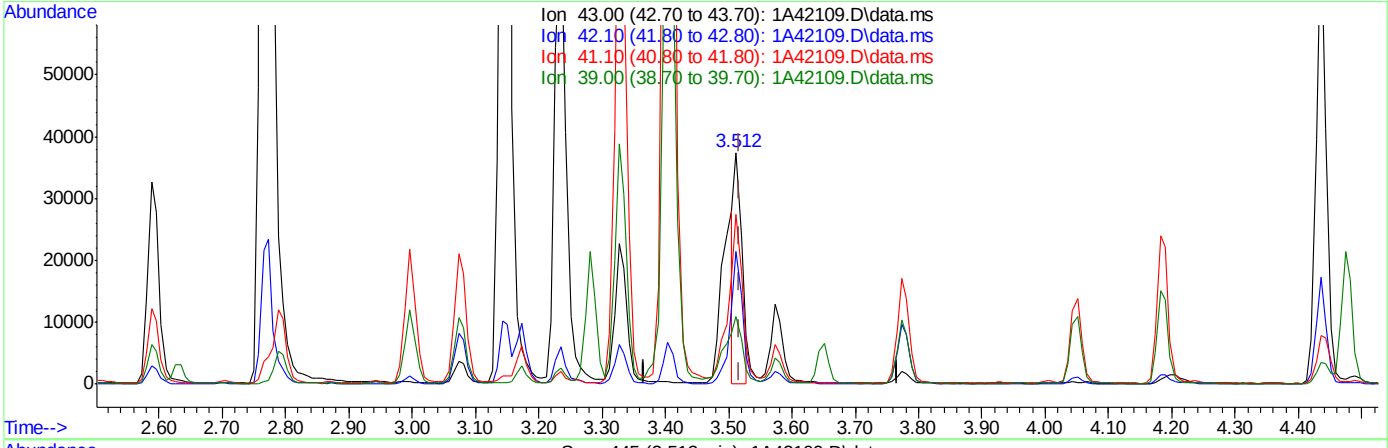
response 68056

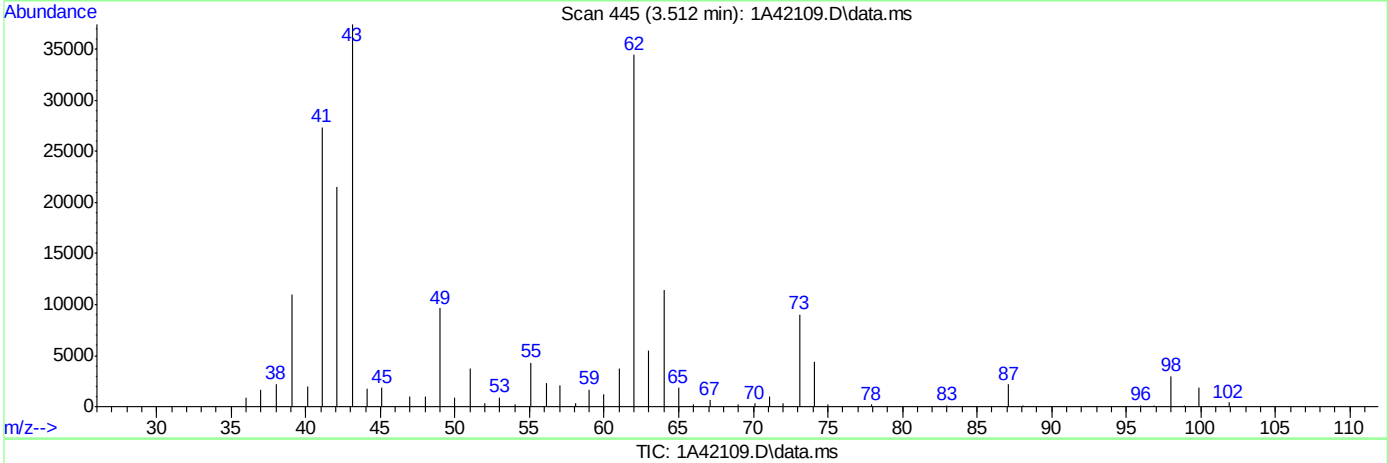
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	57.77
41.10	70.50	71.00
39.00	29.30	28.33

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42109.D
Acq On : 12 Dec 2022 1:14 pm
Operator : joannel
Sample : IC1696-4
Misc : MS52217,V1A1695,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 15:22:20 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42109.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.005) 247.04ug/L m

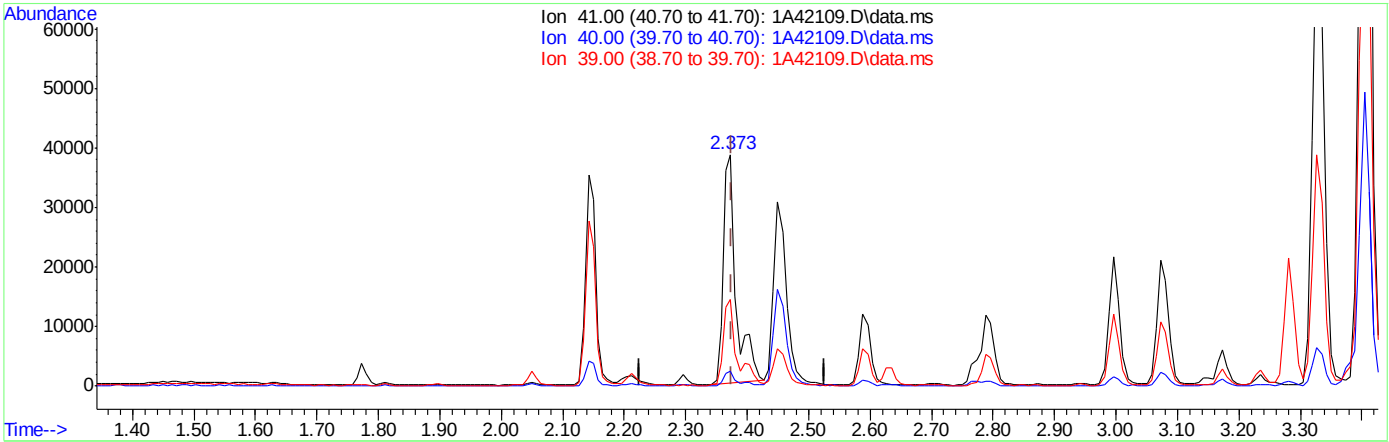
response 31863

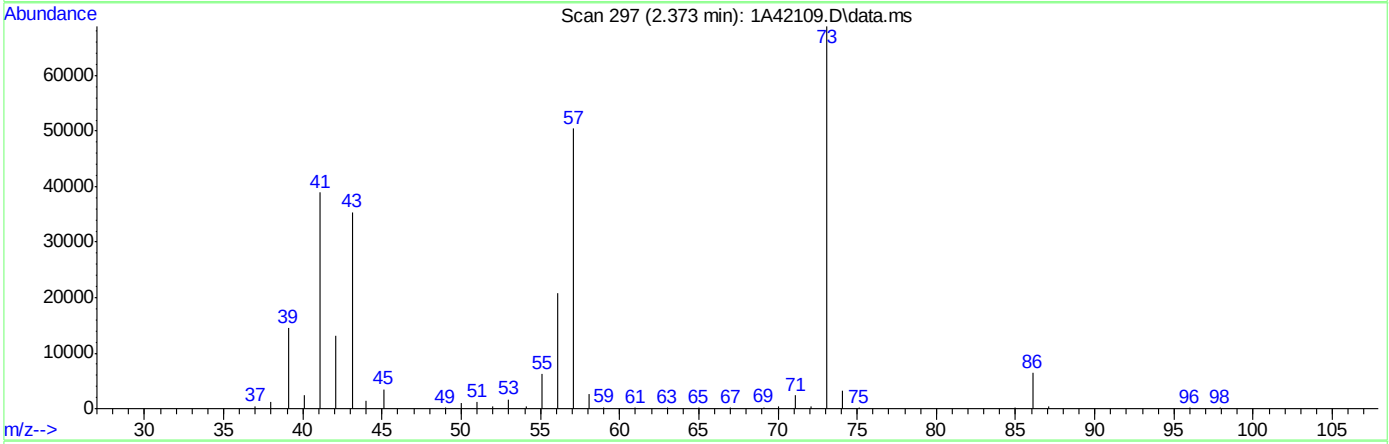
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	57.47
41.10	70.50	73.15
39.00	29.30	29.42

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42109.D
Acq On : 12 Dec 2022 1:14 pm
Operator : joannel
Sample : IC1696-4
Misc : MS52217,V1A1695,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 15:35:09 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42109.D\data.ms

(24) Acetonitrile

2.373min (-0.003) 277.64ug/L

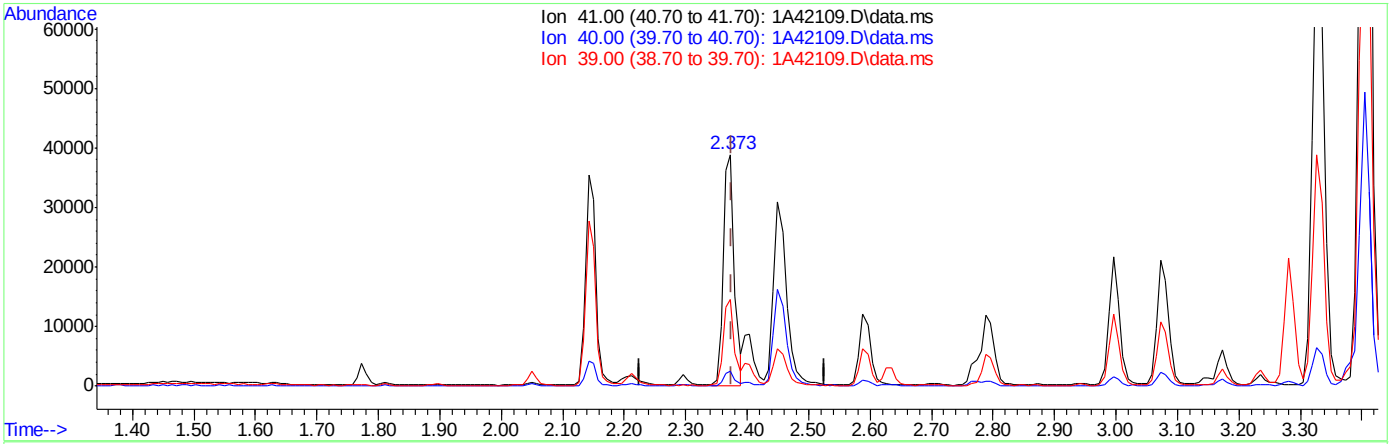
response 57508

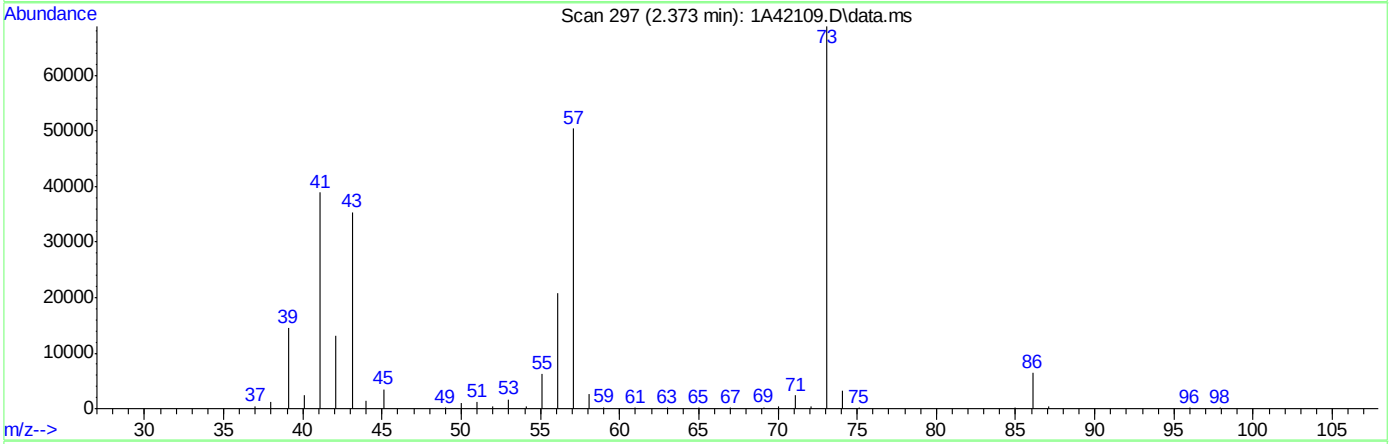
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.52
39.00	39.30	37.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42109.D
Acq On : 12 Dec 2022 1:14 pm
Operator : joannel
Sample : IC1696-4
Misc : MS52217,V1A1695,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 15:35:09 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42109.D\data.ms

(24) Acetonitrile

2.373min (-0.003) 235.12ug/L m

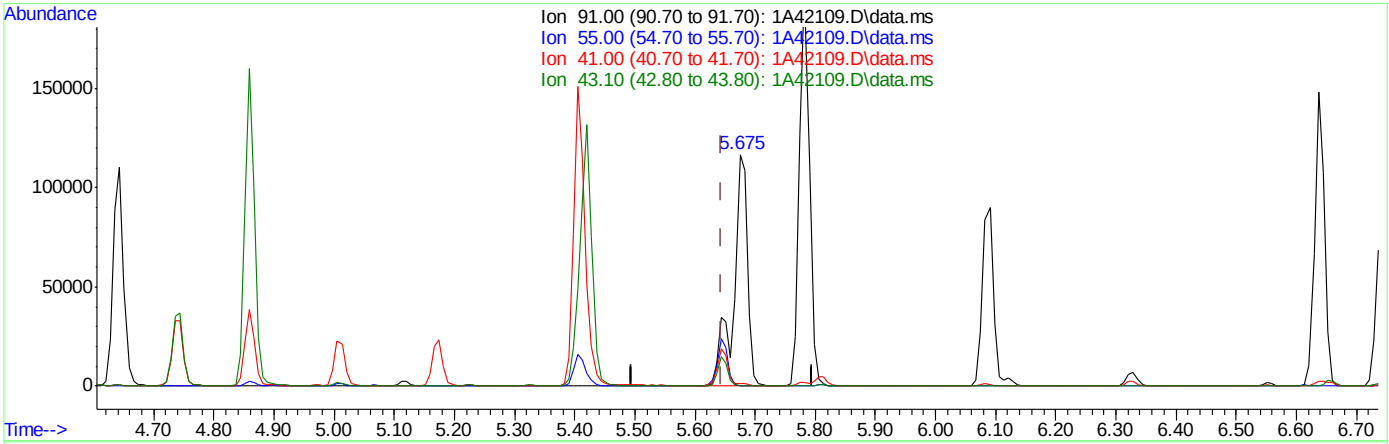
response 48847

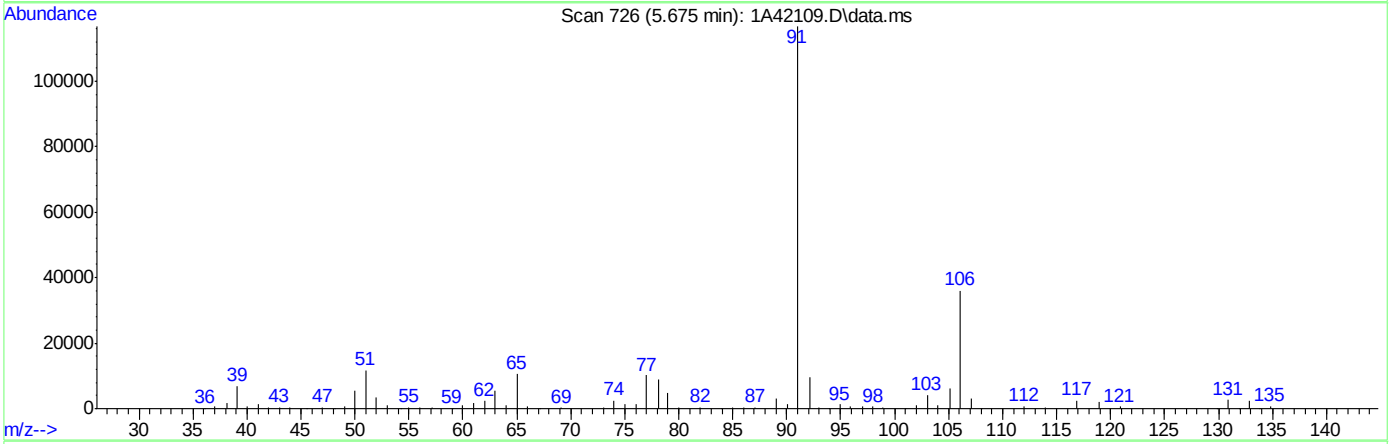
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.48
39.00	39.30	37.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42109.D
Acq On : 12 Dec 2022 1:14 pm
Operator : joannel
Sample : IC1696-4
Misc : MS52217,V1A1695,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 15:35:09 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42109.D\data.ms

(76) 1-Chlorohexane

5.675min (+0.030) 103.35ug/L

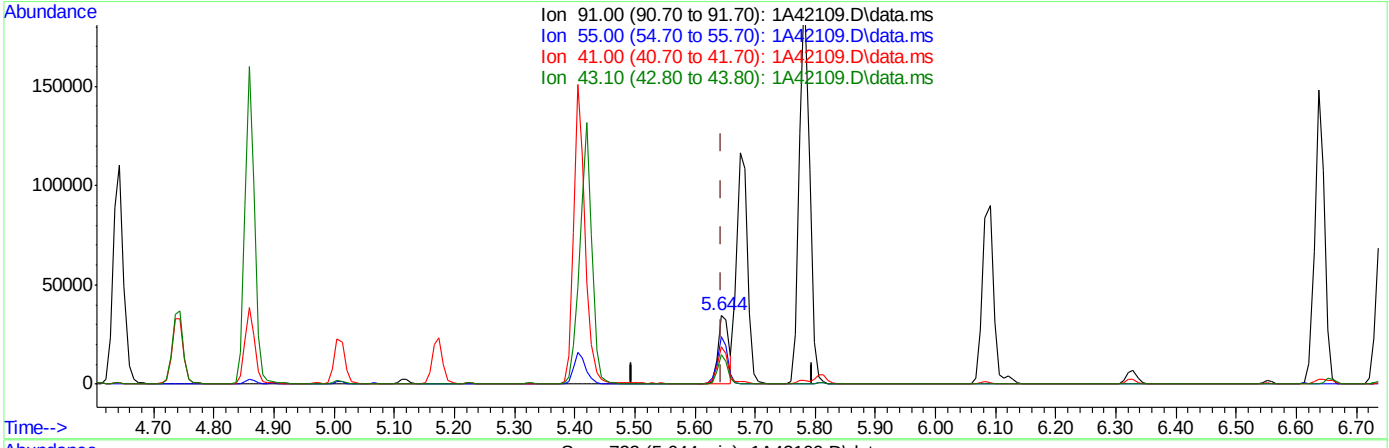
response 188434

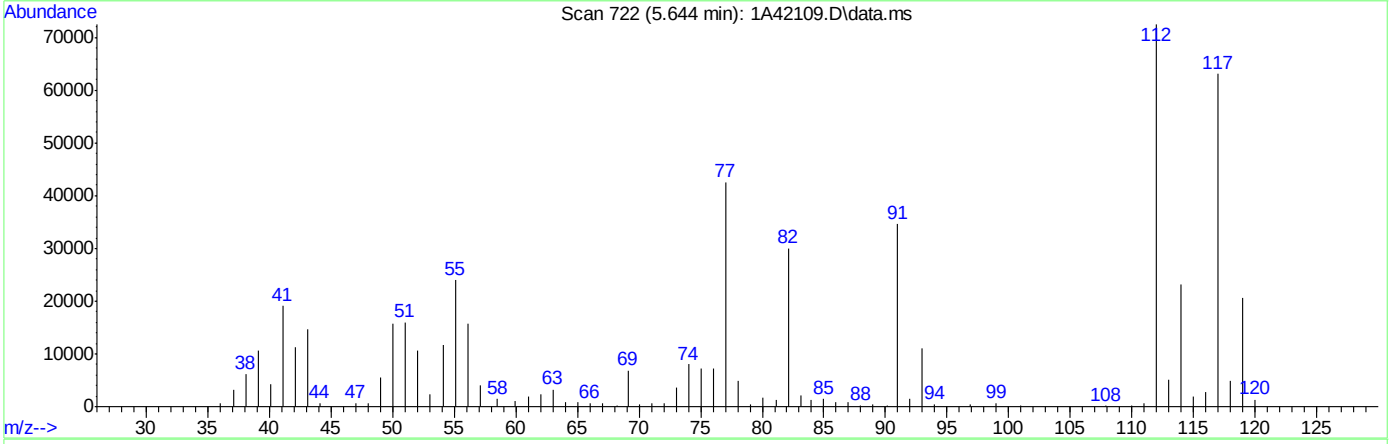
Ion	Exp%	Act%
91.00	100	100
55.00	65.30	0.21#
41.00	65.50	0.87#
43.10	48.90	0.20#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42109.D
Acq On : 12 Dec 2022 1:14 pm
Operator : joannel
Sample : IC1696-4
Misc : MS52217,V1A1695,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 15:35:09 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42109.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.001) 24.13ug/L m

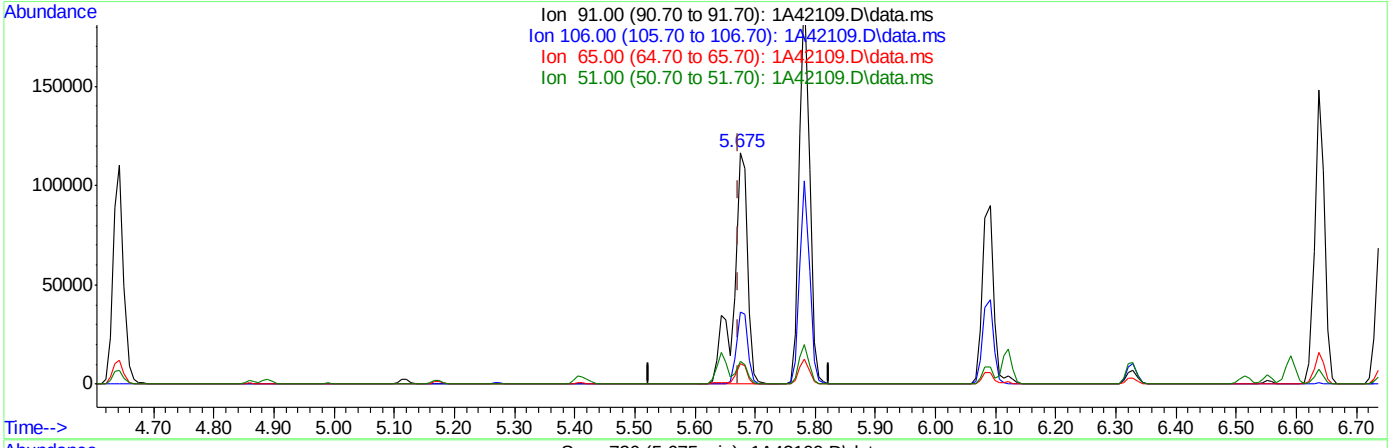
response 44003

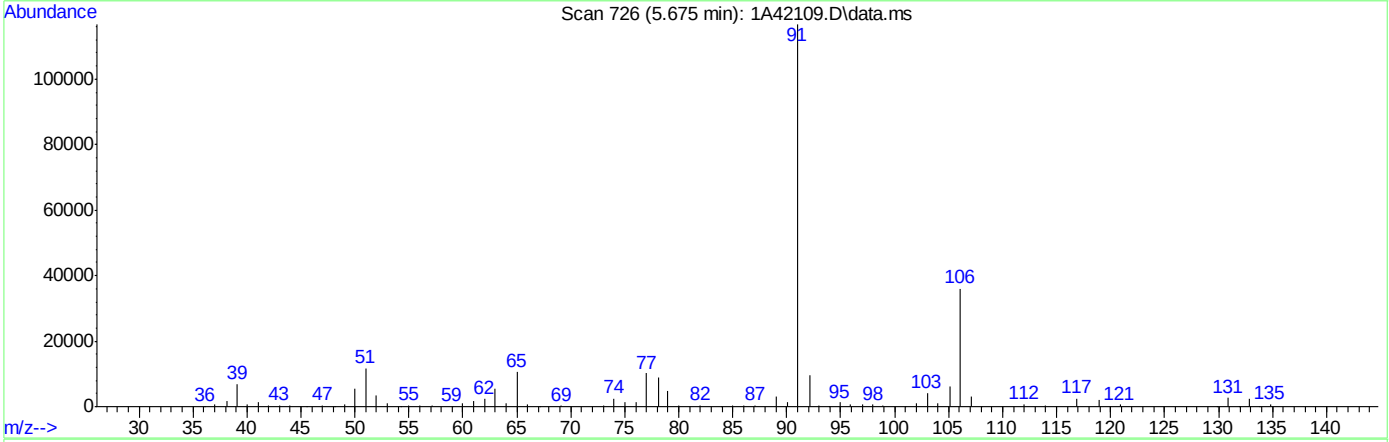
Ion	Exp%	Act%
91.00	100	100
55.00	65.30	69.07
41.00	65.50	54.96
43.10	48.90	42.41

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42109.D
Acq On : 12 Dec 2022 1:14 pm
Operator : joannel
Sample : IC1696-4
Misc : MS52217,V1A1695,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 15:39:40 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42109.D\data.ms

(77) Ethylbenzene (C)

5.675min (+0.002) 31.45ug/L

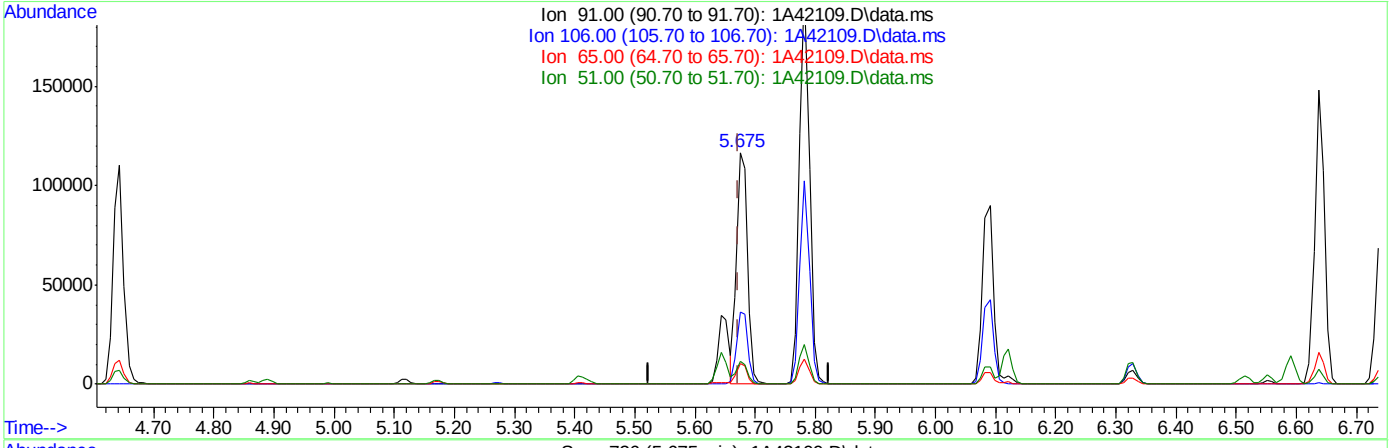
response 188434

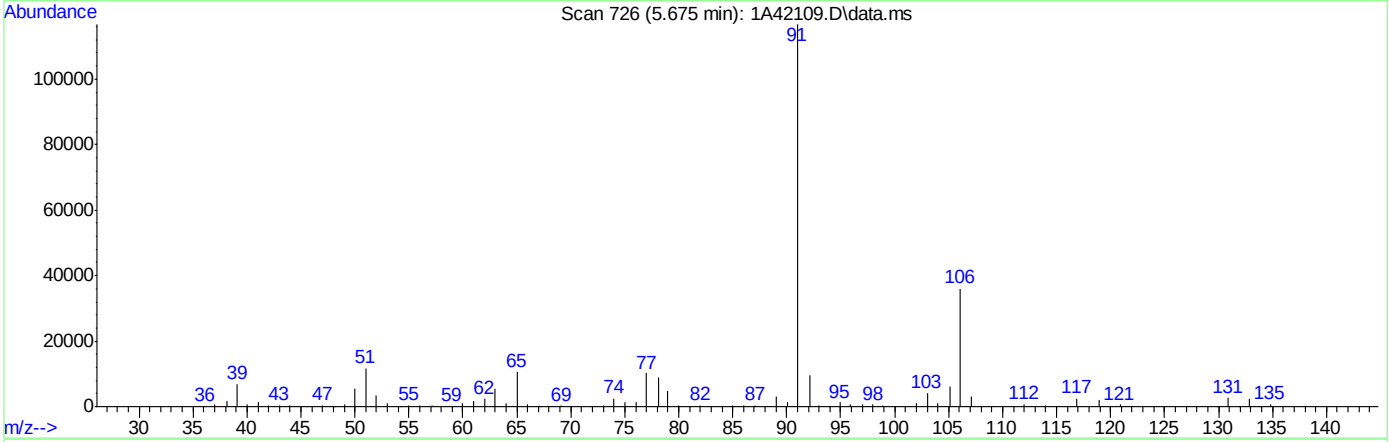
Ion	Exp%	Act%
91.00	100	100
106.00	34.20	30.93
65.00	8.60	9.05
51.00	10.30	9.99

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42109.D
Acq On : 12 Dec 2022 1:14 pm
Operator : joannel
Sample : IC1696-4
Misc : MS52217,V1A1695,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 15:39:40 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42109.D\data.ms

(77) Ethylbenzene (C)

5.675min (+0.002) 24.10ug/L m

response 144364

Ion	Exp%	Act%
91.00	100	100
106.00	34.20	30.93
65.00	8.60	9.05
51.00	10.30	9.99

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 12/13/22 12:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42110.D
Acq On : 12 Dec 2022 2:21 pm
Operator : joannel
Sample : ICC1696-5
Misc : MS52217,V1A1696,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 15:47:48 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	223236	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	179818	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.384	152	94348	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	70921	56.82	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 113.64%			
49) 1,2-Dichloroethane-d4	3.474	65	75081	56.49	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 112.98%			
63) Toluene-d8	4.605	98	228465	57.12	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 114.24%#			
86) 4-Bromofluorobenzene	6.522	174	80051	56.34	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 112.68%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.034	85	63575	66.89	ug/L	88
3) Chloromethane	1.157	50	57801	48.73	ug/L	95
4) 1,3-butadiene	1.219	39	45505	35.15	ug/L	87
5) Vinyl Chloride	1.203	62	59079	39.38	ug/L	95
6) Bromomethane	1.403	94	37500	18.33	ug/L	99
7) Chloroethane	1.480	64	18922	9.71	ug/L	99
8) Trichlorofluoromethane	1.573	101	87540	18.18	ug/L	97
9) Ethyl Ether	1.773	59	44847	47.94	ug/L	86
10) Ethanol	1.842	45	15939	659.72	ug/L	97
11) 1,2-Dichlorotrifluoroe...	1.873	67	68490	64.05	ug/L	99
12) 1,1-Dichloroethene	1.873	61	83680	63.01	ug/L	98
13) Freon 113	1.911	101	59580	69.78	ug/L	98
14) Carbon Disulfide	1.896	76	160063	66.03	ug/L	85
15) Iodomethane	1.958	142	67832	57.47	ug/L	98
16) Acrolein	2.050	56	59986	176.34	ug/L	96
17) Allyl chloride	2.142	41	72700	60.20	ug/L	95
18) Methylene Chloride	2.196	49	67384	48.20	ug/L	89
19) Acetone	2.212	43	88102	155.08	ug/L	94
20) Methyl acetate	2.296	43	233264	154.45	ug/L	89
21) trans-1,2-Dichloroethene	2.296	61	83312	57.66	ug/L	94
22) Hexane	2.365	56	45975m	52.74	ug/L	
23) Methyl Tert Butyl Ether	2.365	73	174074	60.69	ug/L	75
24) Acetonitrile	2.365	41	91495m	444.34	ug/L	
25) Tert Butyl Alcohol	2.396	59	100985	355.97	ug/L	97
26) Di-isopropyl ether	2.589	45	160224	43.34	ug/L	92
27) Chloroprene	2.627	53	185397	33.81	ug/L	92
28) 1,1-Dichloroethane	2.635	63	104469	50.23	ug/L	98
29) Acrylonitrile	2.627	52	111844	155.44	ug/L	91
30) ETBE	2.789	59	174930	49.46	ug/L	97
31) Vinyl acetate	2.766	43	537980	209.73	ug/L	97
32) cis-1,2-Dichloroethene	2.927	96	64363	54.42	ug/L	93
33) 2,2-Dichloropropane	2.997	77	95629	69.38	ug/L	98
34) Bromochloromethane	3.035	128	31455	53.86	ug/L	89
35) Cyclohexane	3.074	56	90018	49.24	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42110.D
Acq On : 12 Dec 2022 2:21 pm
Operator : joannel
Sample : ICC1696-5
Misc : MS52217,V1A1696,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 15:47:48 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.081	83	112078	54.50	ug/L		96
37) Ethyl acetate	3.143	43	301392	147.98	ug/L		93
38) Tetrahydrofuran	3.174	42	20759	28.85	ug/L		91
40) Carbon Tetrachloride	3.181	117	84285m	57.78	ug/L		
41) 1,1,1-Trichloroethane	3.212	97	95331	59.37	ug/L		98
42) 2-Butanone	3.235	43	160717	144.05	ug/L		86
43) 1,1-Dichloropropene	3.281	75	83996	57.81	ug/L		92
44) tert-Butyl formate	3.328	59	241083	305.41	ug/L		89
45) Propionitrile	3.381	54	96585	264.20	ug/L		98
46) Methacrylonitrile	3.405	41	373852	261.66	ug/L		98
47) Benzene	3.420	78	238364	42.54	ug/L		81
48) TAME	3.497	73	167713	50.43	ug/L		92
50) 1,2-Dichloroethane	3.512	62	82002	44.33	ug/L		93
51) Isobutyl Alcohol	3.512	43	51456m	399.65	ug/L		
52) Tert Amyl Alcohol	3.574	59	83096	317.55	ug/L		92
53) Trichloroethene	3.759	95	67352	46.17	ug/L		95
54) Methylcyclohexane	3.774	83	99722	49.03	ug/L		92
55) Dibromomethane	3.989	93	40599	45.64	ug/L		94
56) 1,2-Dichloropropane	4.051	63	59878	45.74	ug/L		90
57) Bromodichloromethane	4.089	83	80309	50.78	ug/L		90
58) Methyl methacrylate	4.182	41	53899	37.67	ug/L		88
59) 1,4-Dioxane	4.205	88	15441	602.70	ug/L		92
60) 2-Chloroethyl vinyl ether	4.436	63	199536	210.44	ug/L		88
61) cis-1,3-Dichloropropene	4.474	75	97573	55.90	ug/L		87
64) Toluene	4.644	91	257826	48.27	ug/L		97
65) 2-Nitropropane	4.744	41	89760	199.23	ug/L		95
66) 4-Methyl-2-pentanone	4.859	43	323193	143.96	ug/L		90
67) trans-1,3-Dichloropropene	4.890	75	85989	57.67	ug/L		86
68) Tetrachloroethene	4.905	166	73270	48.52	ug/L		96
69) Ethyl methacrylate	5.005	69	78096	61.07	ug/L	#	77
70) 1,1,2-Trichloroethane	4.990	83	47162	52.15	ug/L		96
71) Dibromochloromethane	5.121	129	63737	48.40	ug/L		93
72) 1,3-Dichloropropane	5.175	76	94773	55.98	ug/L		88
73) 1,2-Dibromoethane	5.275	107	61697	48.16	ug/L		92
74) 3,3-Dimethyl-1-Butanol	5.406	57	422002	1682.22	ug/L		90
75) 2-hexanone	5.421	43	298265	134.85	ug/L		78
76) 1-Chlorohexane	5.652	91	81278m	44.16	ug/L		
77) Ethylbenzene	5.683	91	279628m	46.23	ug/L		
78) Chlorobenzene	5.644	112	165051	42.69	ug/L		91
79) 1,1,1,2-Tetrachloroethane	5.690	131	60867	45.63	ug/L		92
80) m,p-Xylene	5.783	91	438495	93.20	ug/L		95
81) o-Xylene	6.091	91	225078	50.91	ug/L		97
82) Styrene	6.121	104	176692	47.76	ug/L		95
83) Bromoform	6.121	173	42841	49.45	ug/L		96
84) Isopropylbenzene	6.329	105	269235	46.62	ug/L		97
87) cis-1,4-Dichloro-2-butene	6.552	53	24907	42.51	ug/L	#	86
88) n-Propylbenzene	6.637	91	318478	45.54	ug/L		95
89) Bromobenzene	6.591	156	71624	44.51	ug/L		90
90) 1,1,2,2-Tetrachloroethane	6.660	83	78782	39.43	ug/L		99
91) 1,3,5-Trimethylbenzene	6.791	105	234467	45.92	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42110.D
Acq On : 12 Dec 2022 2:21 pm
Operator : joannel
Sample : ICC1696-5
Misc : MS52217,V1A1696,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 15:47:48 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

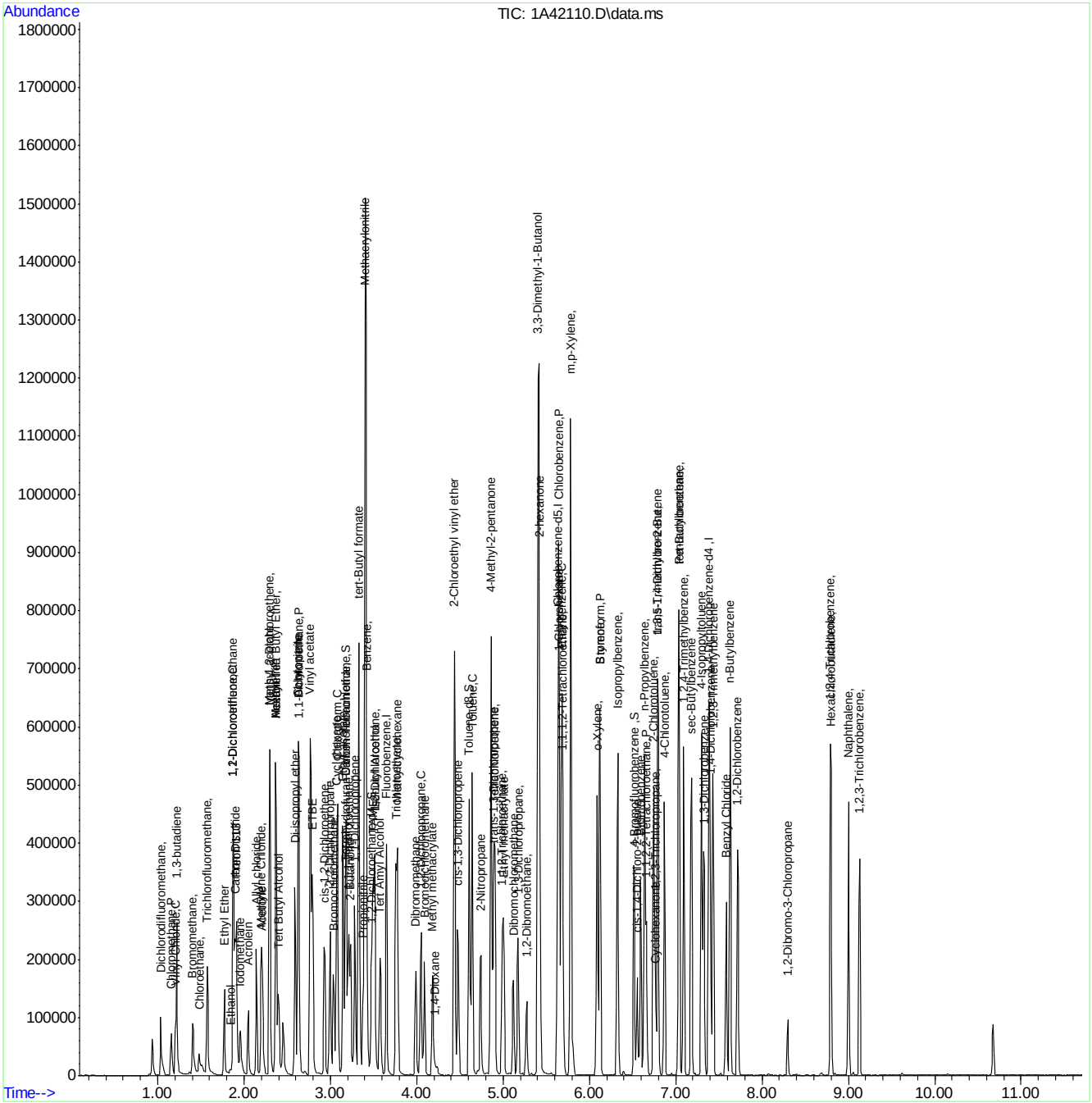
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 2-Chlorotoluene	6.745	91	183385	48.91	ug/L		96
93) trans-1,4-Dichloro-2-B...	6.791	53	27048	37.61	ug/L	#	80
94) 1,2,3-Trichloropropane	6.760	110	23831	35.12	ug/L		86
95) Cyclohexanone	6.768	55	13328	119.80	ug/L		92
96) 4-Chlorotoluene	6.868	91	191885	47.87	ug/L		93
97) tert-Butylbenzene	7.037	91	130113	48.30	ug/L		88
98) 1,2,4-Trimethylbenzene	7.091	105	224791	44.92	ug/L		99
99) Pentachloroethane	7.037	167	38299	53.68	ug/L	#	65
100) sec-Butylbenzene	7.183	105	272750	43.03	ug/L		97
101) 4-Isopropyltoluene	7.299	119	240919	42.18	ug/L		98
102) 1,3-Dichlorobenzene	7.330	146	127558	40.93	ug/L		97
103) 1,2,3-Trimethylbenzene	7.430	105	213995	45.27	ug/L		98
104) 1,4-Dichlorobenzene	7.399	146	129502	40.14	ug/L		98
105) n-Butylbenzene	7.630	92	121222	45.87	ug/L		95
106) Benzyl Chloride	7.584	126	32249	53.85	ug/L	#	73
107) 1,2-Dichlorobenzene	7.714	146	117265	42.42	ug/L		95
108) 1,2-Dibromo-3-Chloropr...	8.299	75	15138	46.64	ug/L	#	83
109) Hexachlorobutadiene	8.800	225	43492	69.83	ug/L		90
110) 1,2,4-Trichlorobenzene	8.792	180	81941	53.49	ug/L		94
111) Naphthalene	9.000	128	222063	40.15	ug/L		98
112) 1,2,3-Trichlorobenzene	9.131	180	77897	58.36	ug/L		94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42110.D
Acq On : 12 Dec 2022 2:21 pm
Operator : joannel
Sample : ICC1696-5
Misc : MS52217,V1A1696,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 15:47:48 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration



Manual Integration Approval Summary

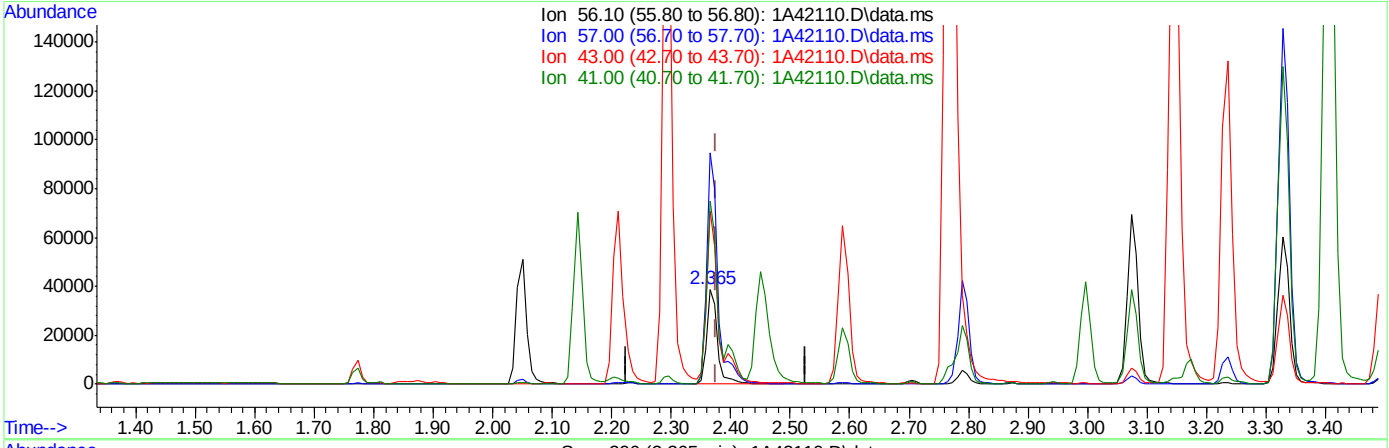
Sample Number: V1A1696-ICC1696 **Method:** SW846 8260D
Lab FileID: 1A42110.D **Analyst approved:** 12/13/22 09:47 Jo-Ann Lugo De Jesus
Injection Time: 12/12/22 14:21 **Supervisor approved:** 12/13/22 12:21 Neil Christiana

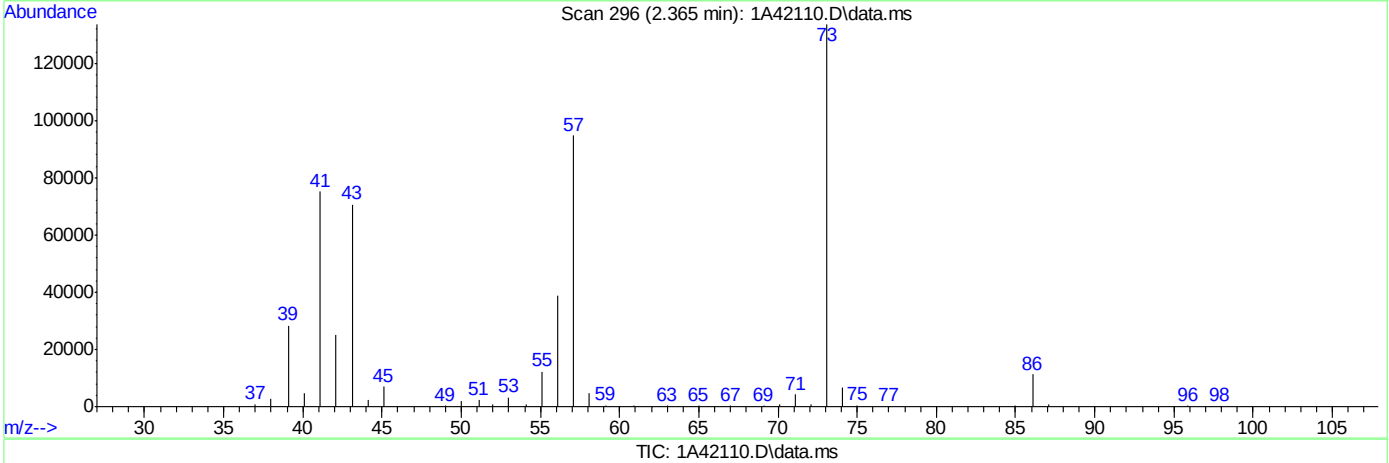
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		2.37	Overlapping peak
Acetonitrile	75-05-8		2.37	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.18	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration
Ethylbenzene	100-41-4		5.68	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42110.D
Acq On : 12 Dec 2022 2:21 pm
Operator : joannel
Sample : ICC1696-5
Misc : MS52217,V1A1695,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 15:22:22 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42110.D\data.ms

(22) Hexane

2.365min (-0.010) 56.33ug/L

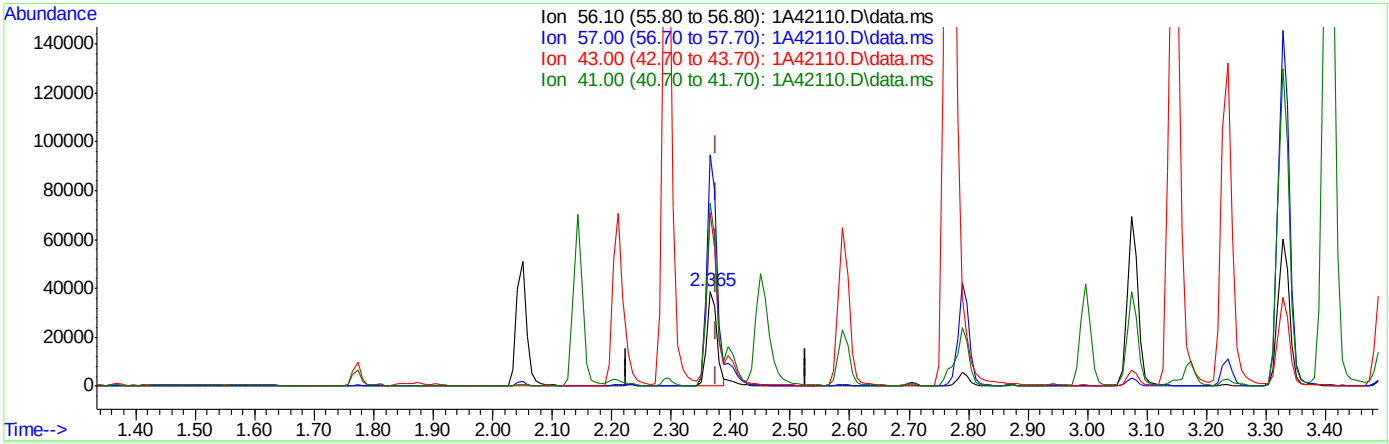
response 49192

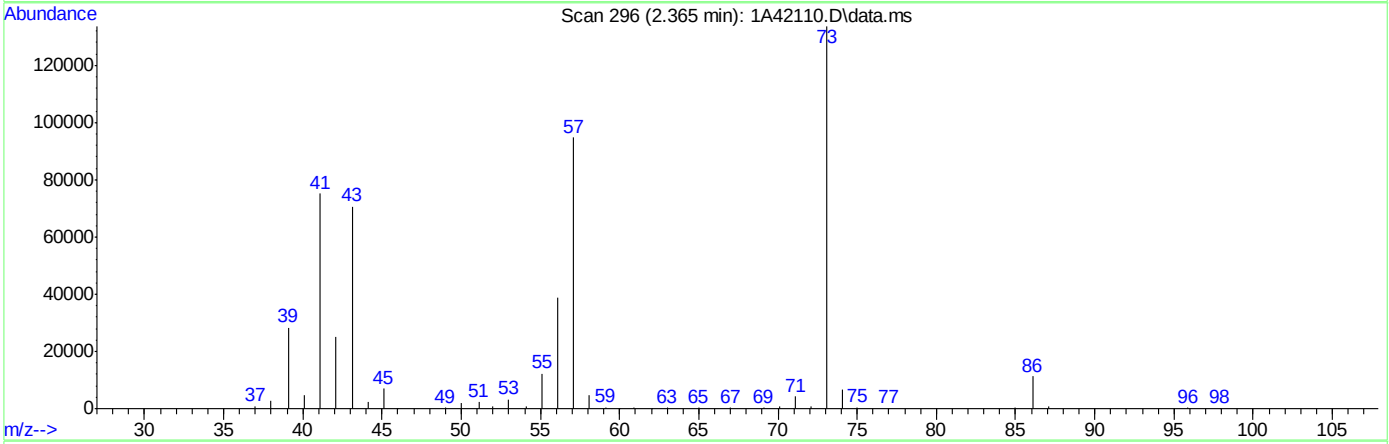
Ion	Exp%	Act%
56.10	100	100
57.00	257.60	243.89
43.00	191.30	180.47
41.00	225.50	192.76#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42110.D
Acq On : 12 Dec 2022 2:21 pm
Operator : joannel
Sample : ICC1696-5
Misc : MS52217,V1A1695,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 15:22:22 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42110.D\data.ms

(22) Hexane

2.365min (-0.010) 52.74ug/L m

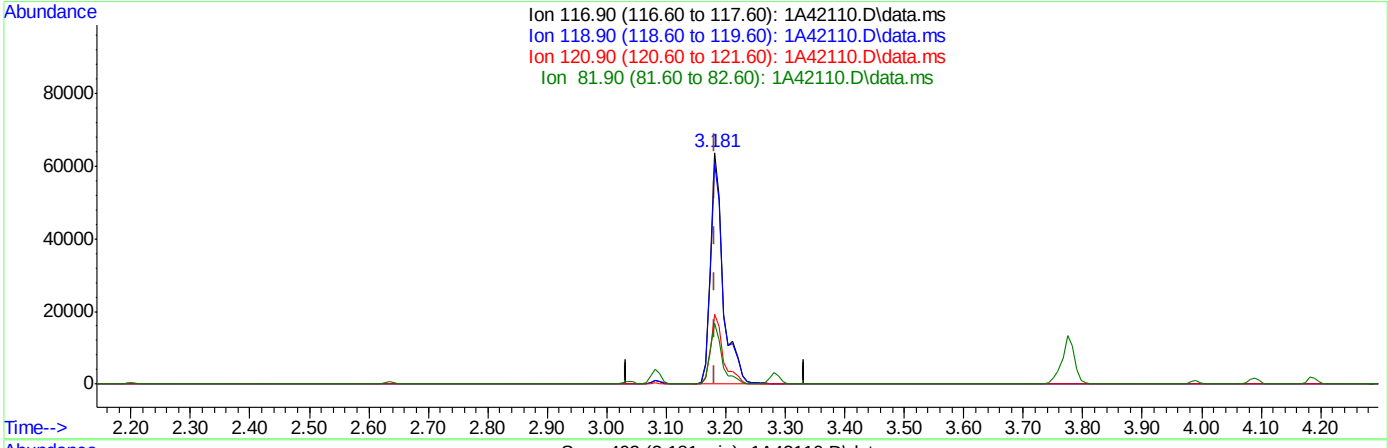
response 45975

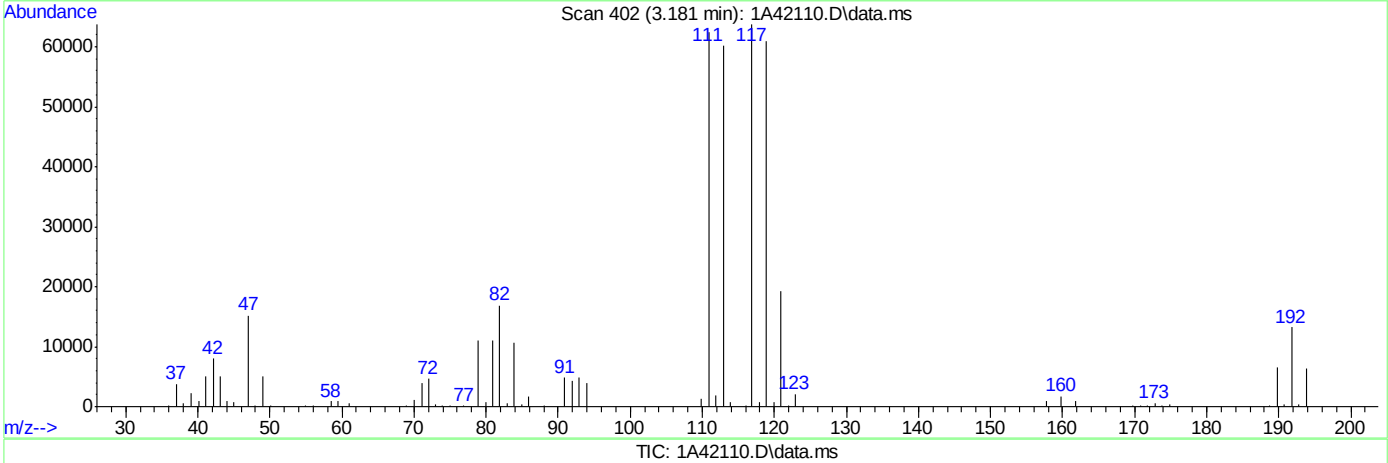
Ion	Exp%	Act%
56.10	100	100
57.00	257.60	243.89
43.00	191.30	181.72
41.00	225.50	193.37#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42110.D
Acq On : 12 Dec 2022 2:21 pm
Operator : joannel
Sample : ICC1696-5
Misc : MS52217,V1A1695,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 15:22:22 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42110.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (-0.002) 64.72ug/L

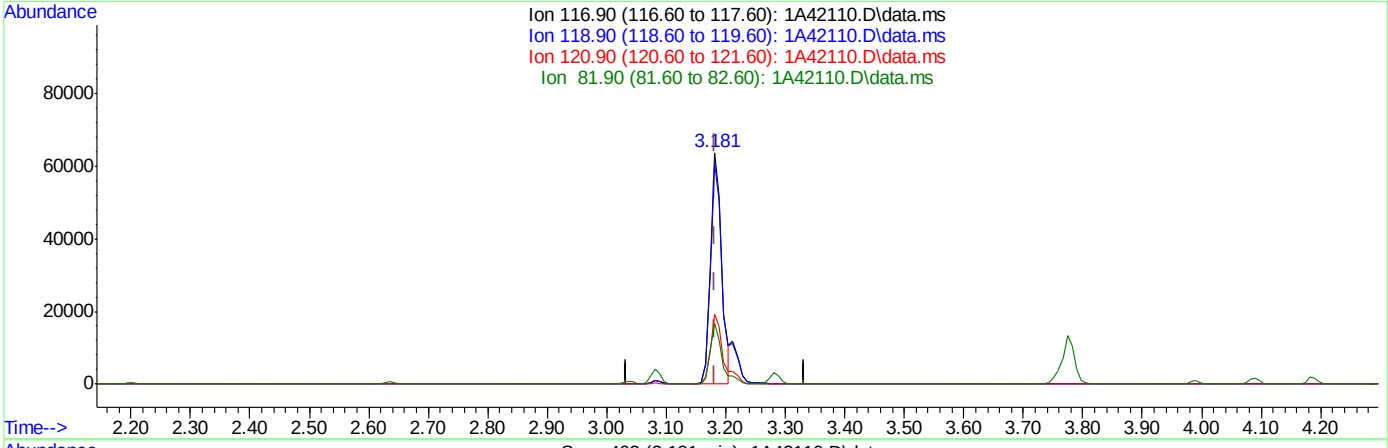
response 95458

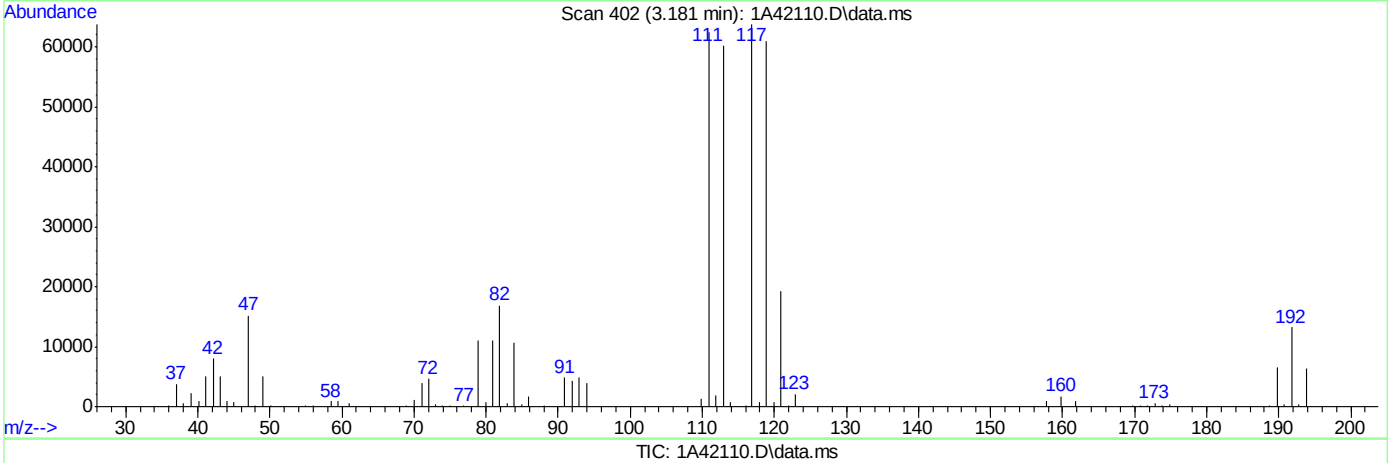
Ion	Exp%	Act%
116.90	100	100
118.90	88.40	95.67
120.90	29.50	30.30
81.90	25.50	26.48

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42110.D
Acq On : 12 Dec 2022 2:21 pm
Operator : joannel
Sample : ICC1696-5
Misc : MS52217,V1A1695,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 15:22:22 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42110.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (-0.002) 57.78ug/L m

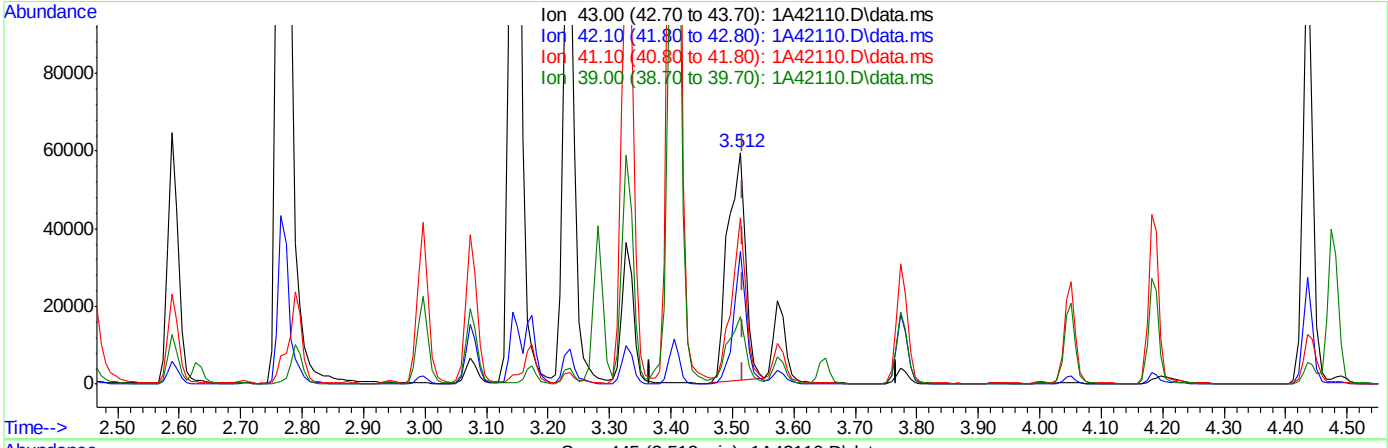
response 84285

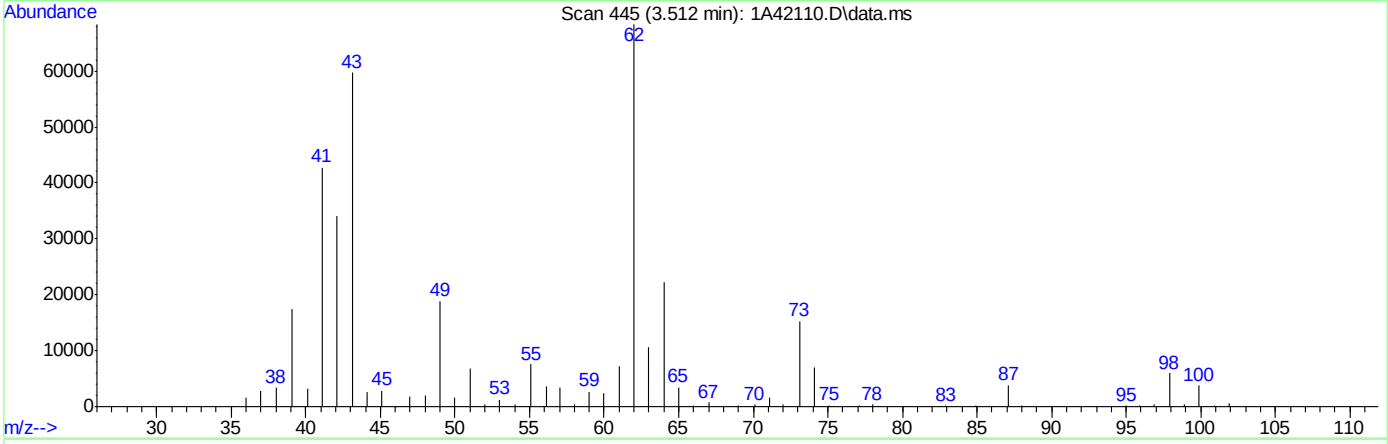
Ion	Exp%	Act%
116.90	100	100
118.90	88.40	95.67
120.90	29.50	30.30
81.90	25.50	26.48

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42110.D
Acq On : 12 Dec 2022 2:21 pm
Operator : joannel
Sample : ICC1696-5
Misc : MS52217,V1A1695,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 15:22:22 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42110.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.005) 948.78ug/L

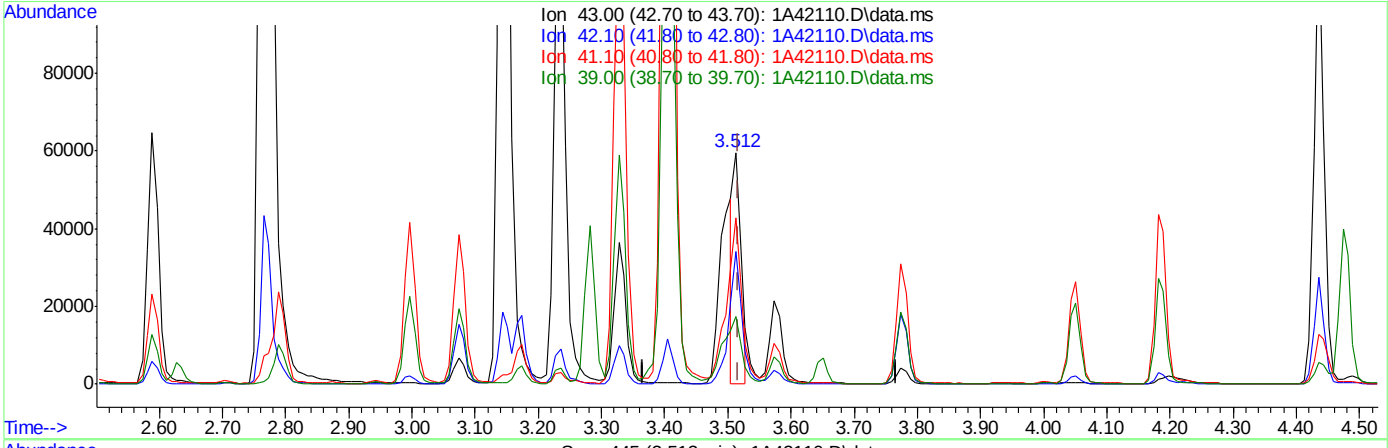
response 118733

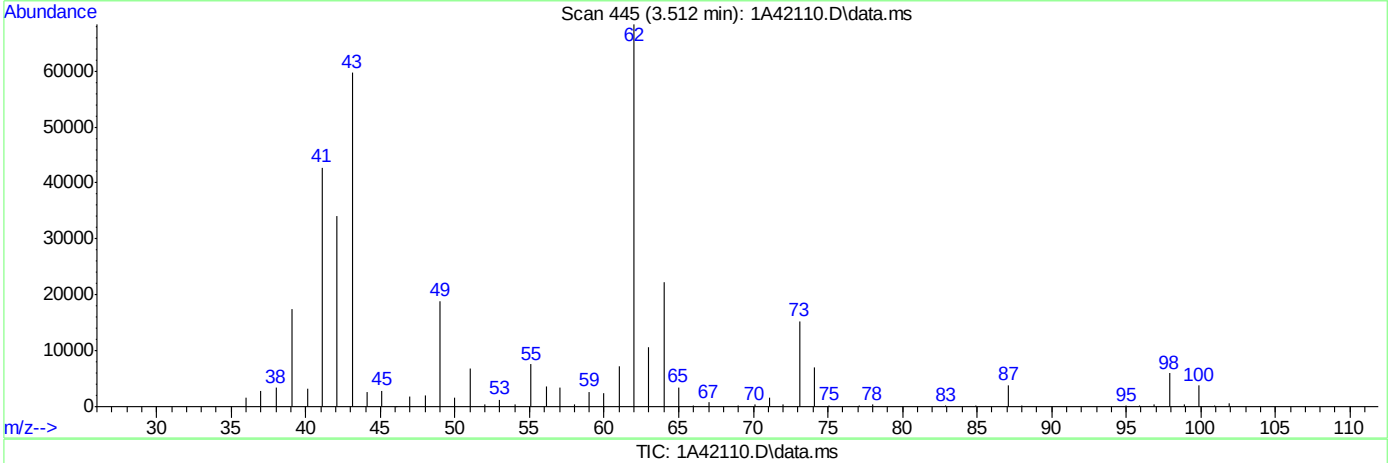
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	57.21
41.10	70.50	69.55
39.00	29.30	28.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42110.D
Acq On : 12 Dec 2022 2:21 pm
Operator : joannel
Sample : ICC1696-5
Misc : MS52217,V1A1695,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 15:22:22 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42110.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.005) 399.65ug/L m

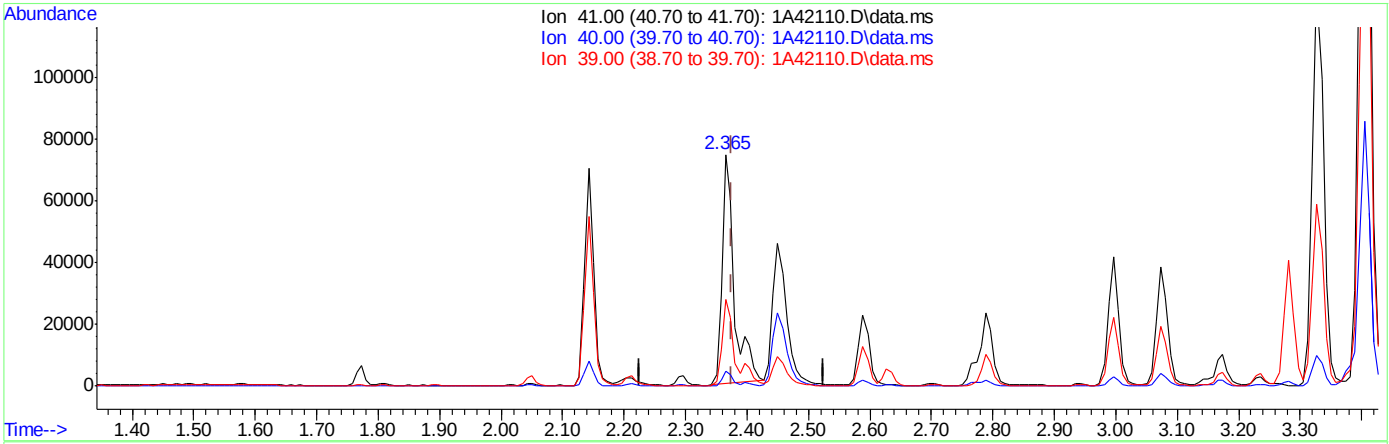
response 51456

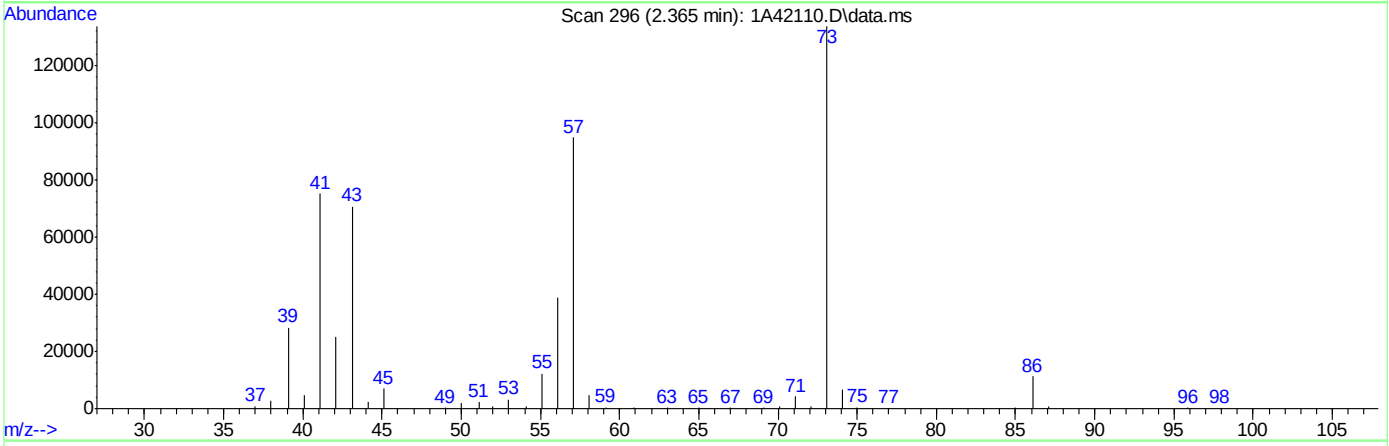
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	57.18
41.10	70.50	71.68
39.00	29.30	29.19

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42110.D
Acq On : 12 Dec 2022 2:21 pm
Operator : joannel
Sample : ICC1696-5
Misc : MS52217,V1A1695,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 15:37:10 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42110.D\data.ms

(24) Acetonitrile

2.365min (-0.010) 510.99ug/L

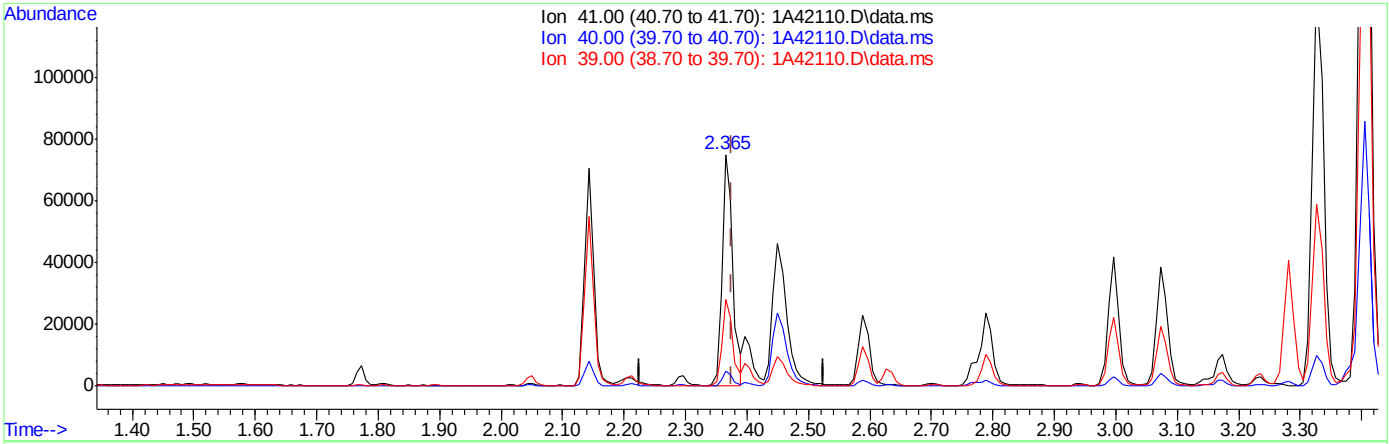
response 104714

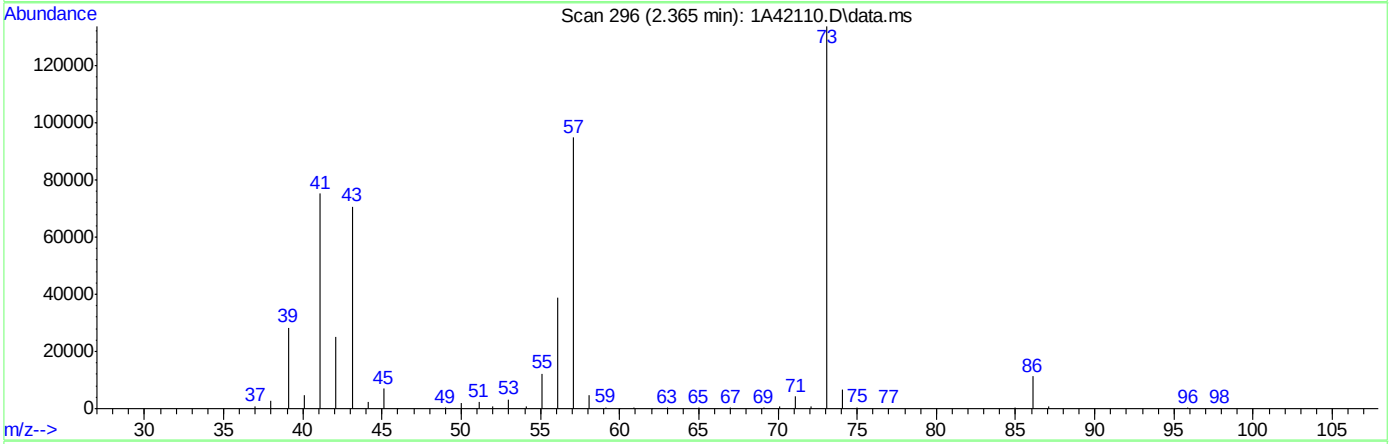
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.26
39.00	39.30	37.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42110.D
Acq On : 12 Dec 2022 2:21 pm
Operator : joannel
Sample : ICC1696-5
Misc : MS52217,V1A1695,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 15:37:10 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42110.D\data.ms

(24) Acetonitrile

2.365min (-0.010) 444.34ug/L m

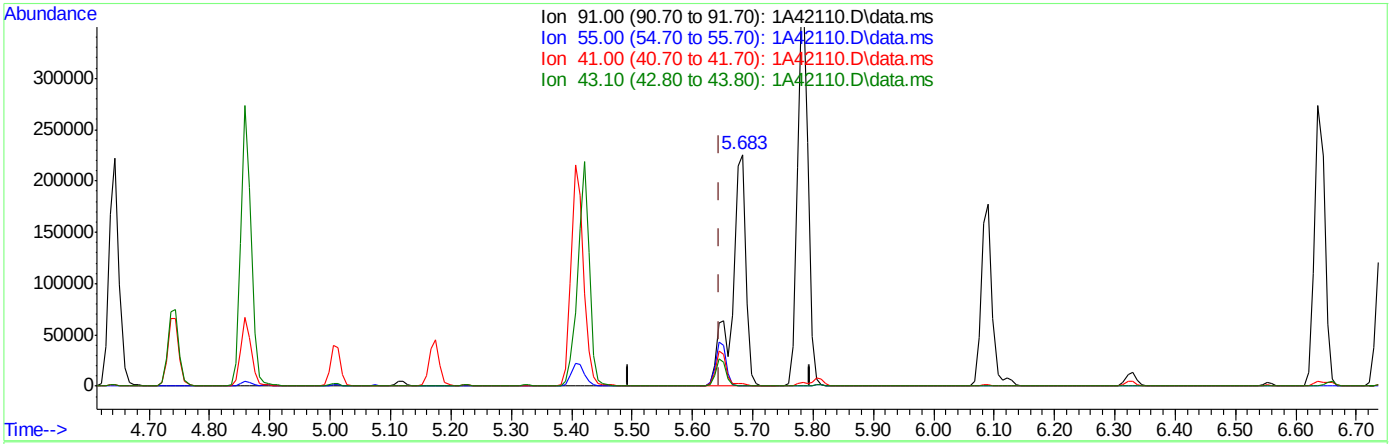
response 91495

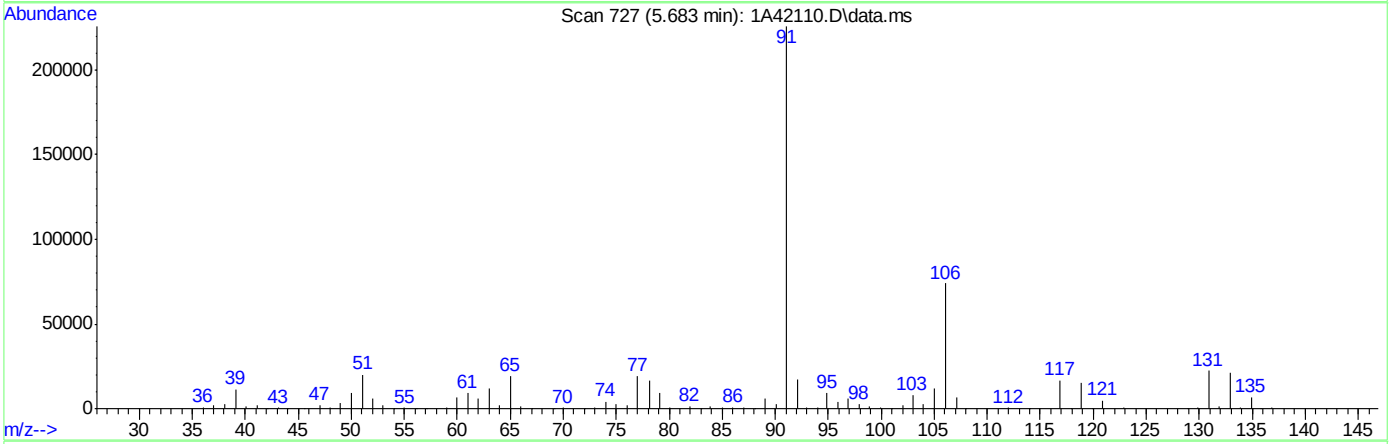
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.39
39.00	39.30	37.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42110.D
Acq On : 12 Dec 2022 2:21 pm
Operator : joannel
Sample : ICC1696-5
Misc : MS52217,V1A1695,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 15:37:10 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42110.D\data.ms

(76) 1-Chlorohexane

5.683min (+0.038) 195.77ug/L

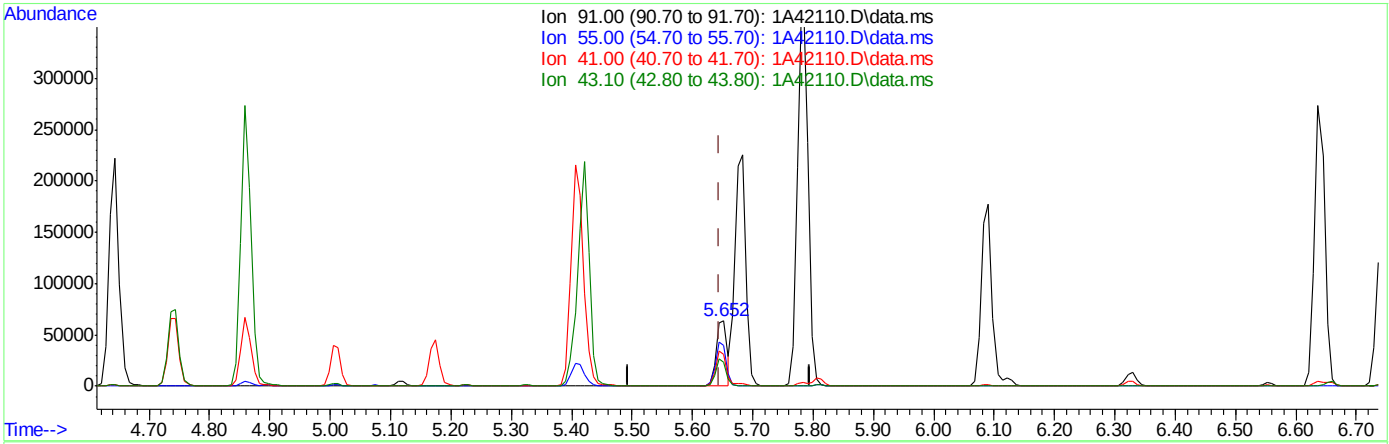
response 360299

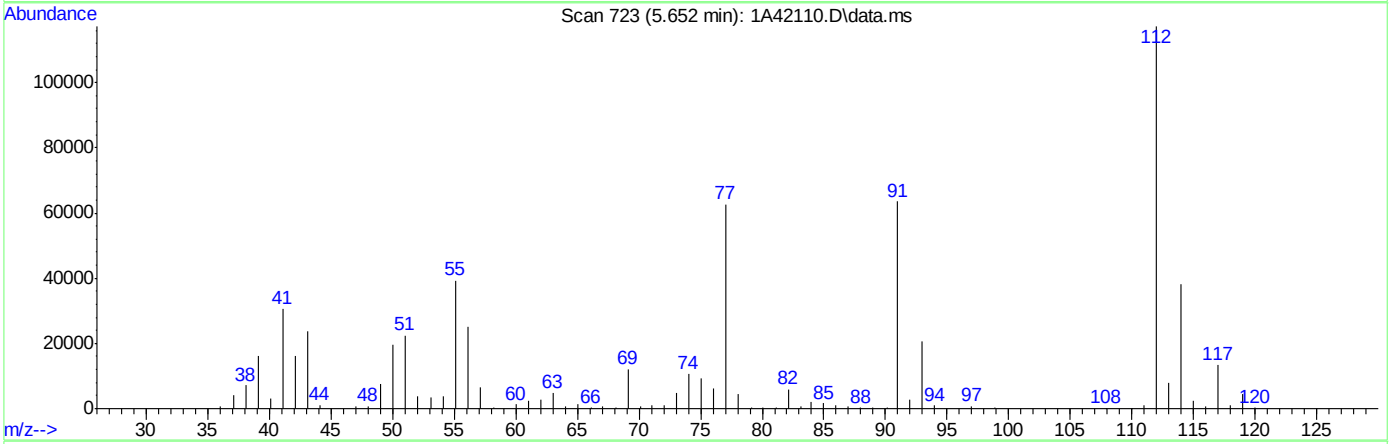
Ion	Exp%	Act%
91.00	100	100
55.00	65.30	0.18#
41.00	65.50	0.78#
43.10	48.90	0.12#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42110.D
Acq On : 12 Dec 2022 2:21 pm
Operator : joannel
Sample : ICC1696-5
Misc : MS52217,V1A1695,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 15:37:10 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42110.D\data.ms

(76) 1-Chlorohexane

5.652min (+0.007) 44.16ug/L m

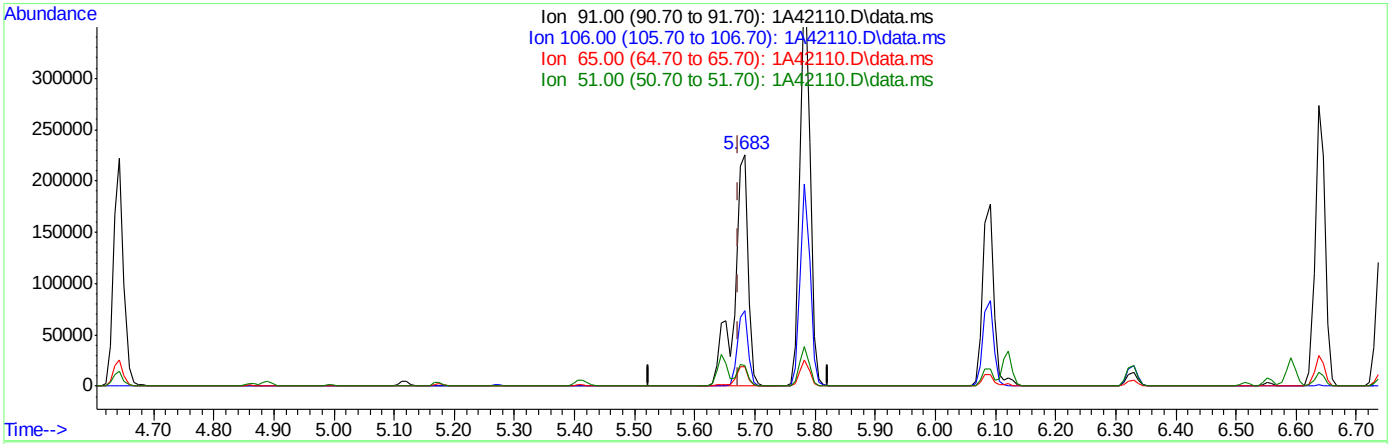
response 81278

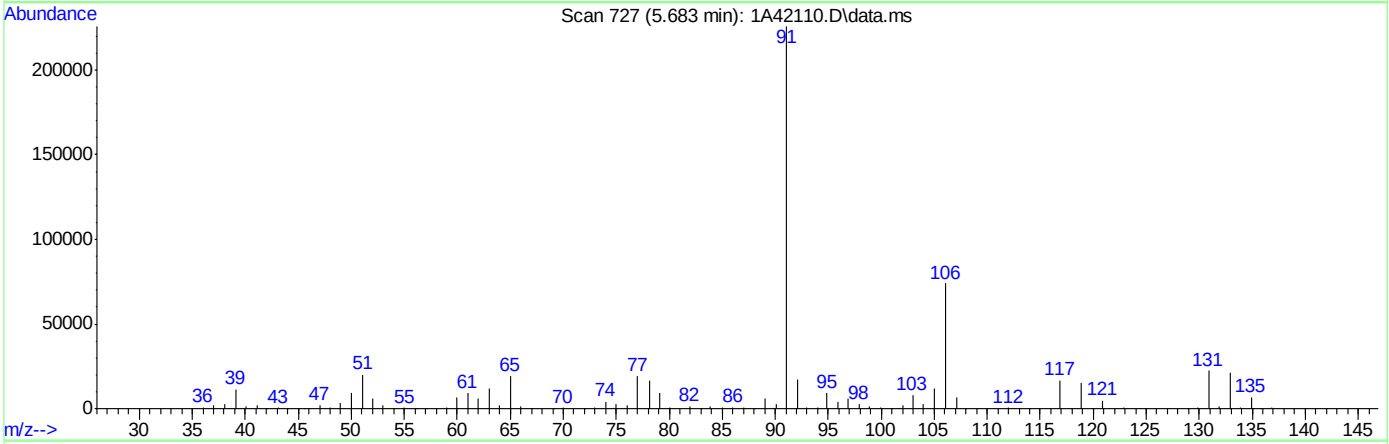
Ion	Exp%	Act%
91.00	100	100
55.00	65.30	61.66
41.00	65.50	48.07
43.10	48.90	37.34

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42110.D
Acq On : 12 Dec 2022 2:21 pm
Operator : joannel
Sample : ICC1696-5
Misc : MS52217,V1A1695,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 15:40:09 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42110.D\data.ms

(77) Ethylbenzene (C)

5.683min (+0.010) 59.66ug/L

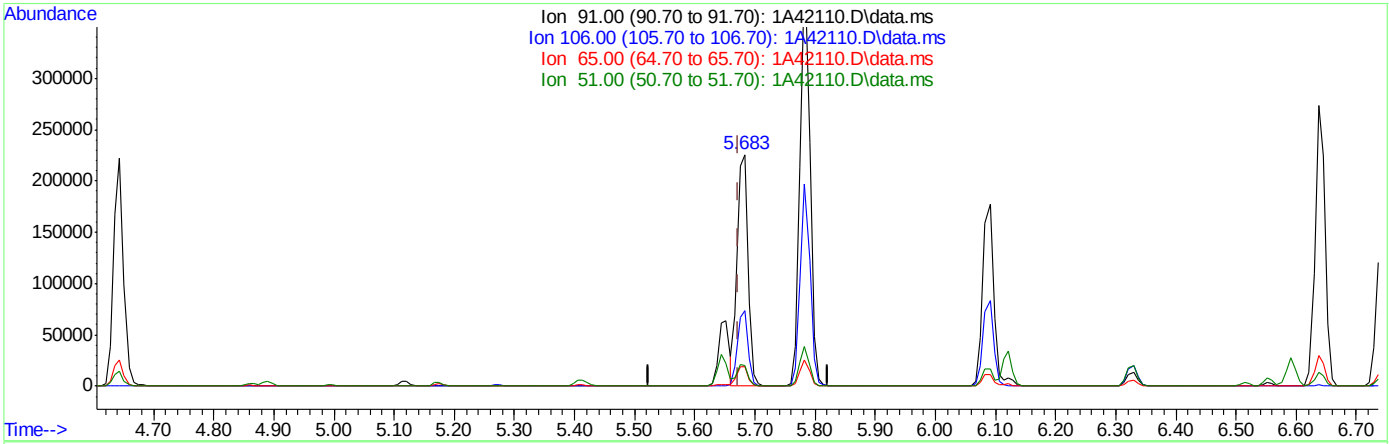
response 360824

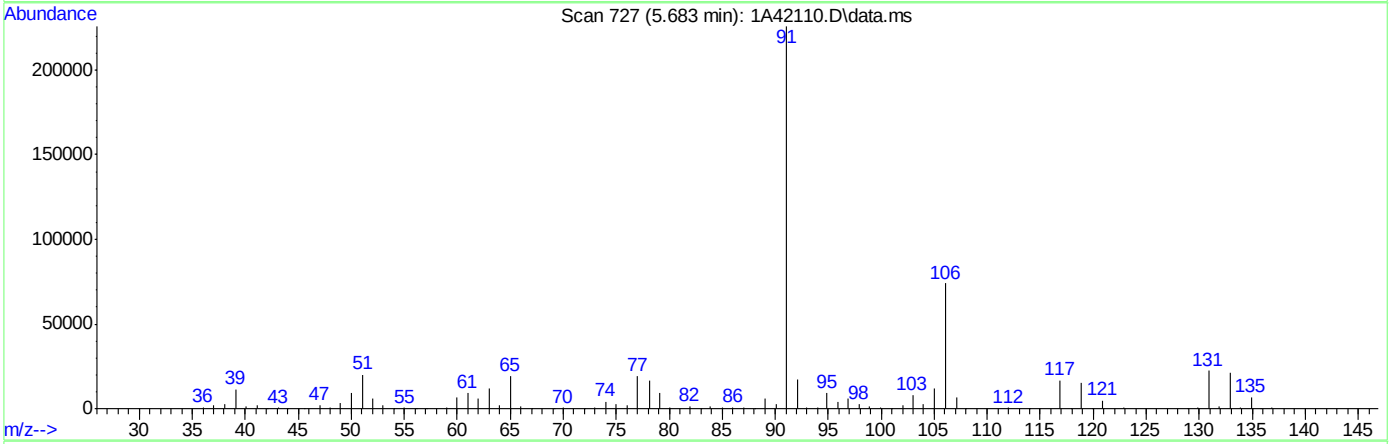
Ion	Exp%	Act%
91.00	100	100
106.00	34.20	32.71
65.00	8.60	8.52
51.00	10.30	8.95

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42110.D
Acq On : 12 Dec 2022 2:21 pm
Operator : joannel
Sample : ICC1696-5
Misc : MS52217,V1A1695,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 15:40:09 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42110.D\data.ms

(77) Ethylbenzene (C)

5.683min (+0.010) 46.23ug/L m

response 279628

Ion	Exp%	Act%
91.00	100	100
106.00	34.20	32.71
65.00	8.60	8.52
51.00	10.30	8.95

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 12/13/22 12:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42111.D
Acq On : 12 Dec 2022 2:44 pm
Operator : joannel
Sample : IC1696-6
Misc : MS52217,V1A1696,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 15:42:41 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	223502	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	182484	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	92482	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	71663	57.35	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 114.70%			
49) 1,2-Dichloroethane-d4	3.474	65	70860	53.25	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.50%			
63) Toluene-d8	4.605	98	228383	56.26	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 112.52%#			
86) 4-Bromofluorobenzene	6.514	174	80120	57.52	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 115.04%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.034	85	93845	98.62	ug/L	90
3) Chloromethane	1.165	50	88654	74.65	ug/L	96
4) 1,3-butadiene	1.226	39	64687	Below Cal		80
5) Vinyl Chloride	1.211	62	90497	60.25	ug/L	97
6) Bromomethane	1.411	94	54840	26.78	ug/L	99
7) Chloroethane	1.480	64	19288	9.89	ug/L	95
8) Trichlorofluoromethane	1.573	101	125134	25.95	ug/L	99
9) Ethyl Ether	1.773	59	72554	79.49	ug/L	87
10) Ethanol	1.857	45	27630	1142.26	ug/L	99
11) 1,2-Dichlorotrifluoroe...	1.873	67	106107	109.33	ug/L	98
12) 1,1-Dichloroethene	1.873	61	130784	120.77	ug/L	98
13) Freon 113	1.911	101	88796	113.75	ug/L	98
14) Carbon Disulfide	1.896	76	250142	120.60	ug/L	85
15) Iodomethane	1.957	142	113659	120.58	ug/L	98
16) Acrolein	2.050	56	104452	299.47	ug/L	97
17) Allyl chloride	2.142	41	112008	93.10	ug/L	96
18) Methylene Chloride	2.204	49	105934	76.45	ug/L	82
19) Acetone	2.211	43	152129	273.97	ug/L	97
20) Methyl acetate	2.296	43	384446	255.59	ug/L	90
21) trans-1,2-Dichloroethene	2.304	61	131094	92.21	ug/L	95
22) Hexane	2.365	56	68828m	77.92	ug/L	
23) Methyl Tert Butyl Ether	2.373	73	281831	96.94	ug/L #	63
24) Acetonitrile	2.365	41	135519m	668.11	ug/L	
25) Tert Butyl Alcohol	2.404	59	177805	626.02	ug/L	95
26) Di-isopropyl ether	2.588	45	259146	70.93	ug/L	93
27) Chloroprene	2.635	53	300167	55.08	ug/L	95
28) 1,1-Dichloroethane	2.635	63	163346	78.74	ug/L	98
29) Acrylonitrile	2.635	52	184811	259.98	ug/L	99
30) ETBE	2.796	59	284291	80.29	ug/L	95
31) Vinyl acetate	2.773	43	881748	343.33	ug/L	97
32) cis-1,2-Dichloroethene	2.935	96	101640	85.53	ug/L	93
33) 2,2-Dichloropropane	2.996	77	148254	107.43	ug/L	98
34) Bromochloromethane	3.043	128	48479	80.20	ug/L #	76
35) Cyclohexane	3.073	56	136655	76.13	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42111.D
Acq On : 12 Dec 2022 2:44 pm
Operator : joannel
Sample : IC1696-6
Misc : MS52217,V1A1696,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 15:42:41 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.081	83	176878	85.83	ug/L		97
37) Ethyl acetate	3.150	43	513515	251.83	ug/L		92
38) Tetrahydrofuran	3.173	42	35379	48.91	ug/L		90
40) Carbon Tetrachloride	3.181	117	133162m	87.13	ug/L		
41) 1,1,1-Trichloroethane	3.212	97	150455	93.49	ug/L		98
42) 2-Butanone	3.235	43	277918	251.73	ug/L		86
43) 1,1-Dichloropropene	3.281	75	130345	91.60	ug/L		91
44) tert-Butyl formate	3.327	59	425931	477.35	ug/L		89
45) Propionitrile	3.381	54	157424	445.56	ug/L		99
46) Methacrylonitrile	3.404	41	606725	424.15	ug/L		98
47) Benzene	3.420	78	375708	66.97	ug/L		86
48) TAME	3.497	73	273868	82.24	ug/L		89
50) 1,2-Dichloroethane	3.512	62	131288	70.89	ug/L		92
51) Isobutyl Alcohol	3.512	43	99888m	790.67	ug/L		
52) Tert Amyl Alcohol	3.581	59	142260	542.99	ug/L		91
53) Trichloroethene	3.758	95	105774	72.42	ug/L		94
54) Methylcyclohexane	3.774	83	150542	73.92	ug/L		94
55) Dibromomethane	3.989	93	64543	72.47	ug/L		94
56) 1,2-Dichloropropane	4.051	63	95691	73.01	ug/L		89
57) Bromodichloromethane	4.089	83	127764	80.70	ug/L		90
58) Methyl methacrylate	4.182	41	88532	61.80	ug/L		87
59) 1,4-Dioxane	4.205	88	27754	1124.15	ug/L		94
60) 2-Chloroethyl vinyl ether	4.436	63	348794	368.99	ug/L		88
61) cis-1,3-Dichloropropene	4.474	75	158481	90.69	ug/L		87
64) Toluene	4.643	91	409880	75.62	ug/L		96
65) 2-Nitropropane	4.743	41	151869	332.16	ug/L		95
66) 4-Methyl-2-pentanone	4.859	43	558116	244.98	ug/L		90
67) trans-1,3-Dichloropropene	4.890	75	140052	92.56	ug/L		85
68) Tetrachloroethene	4.905	166	115516	75.38	ug/L		95
69) Ethyl methacrylate	5.013	69	125572	96.77	ug/L	#	73
70) 1,1,2-Trichloroethane	4.990	83	76325	86.32	ug/L		94
71) Dibromochloromethane	5.121	129	105316	78.80	ug/L		93
72) 1,3-Dichloropropane	5.174	76	152699	92.53	ug/L		86
73) 1,2-Dibromoethane	5.275	107	99978	76.89	ug/L		93
74) 3,3-Dimethyl-1-Butanol	5.413	57	783203	3076.46	ug/L		89
75) 2-hexanone	5.421	43	519122	231.28	ug/L		94
76) 1-Chlorohexane	5.652	91	126402m	67.68	ug/L		
77) Ethylbenzene	5.682	91	436495m	71.12	ug/L		
78) Chlorobenzene	5.644	112	262608	66.93	ug/L		91
79) 1,1,1,2-Tetrachloroethane	5.690	131	98047	72.43	ug/L		92
80) m,p-Xylene	5.782	91	688085	144.11	ug/L		95
81) o-Xylene	6.090	91	355455	79.22	ug/L		98
82) Styrene	6.121	104	281181	74.90	ug/L		95
83) Bromoform	6.121	173	71404	81.21	ug/L		95
84) Isopropylbenzene	6.329	105	421676	71.94	ug/L		97
87) cis-1,4-Dichloro-2-butene	6.552	53	40414	70.36	ug/L	#	82
88) n-Propylbenzene	6.637	91	493614	72.00	ug/L		96
89) Bromobenzene	6.591	156	115048	72.93	ug/L		92
90) 1,1,2,2-Tetrachloroethane	6.660	83	127349	65.03	ug/L		99
91) 1,3,5-Trimethylbenzene	6.791	105	364057	72.74	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42111.D
Acq On : 12 Dec 2022 2:44 pm
Operator : joannel
Sample : IC1696-6
Misc : MS52217,V1A1696,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 15:42:41 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

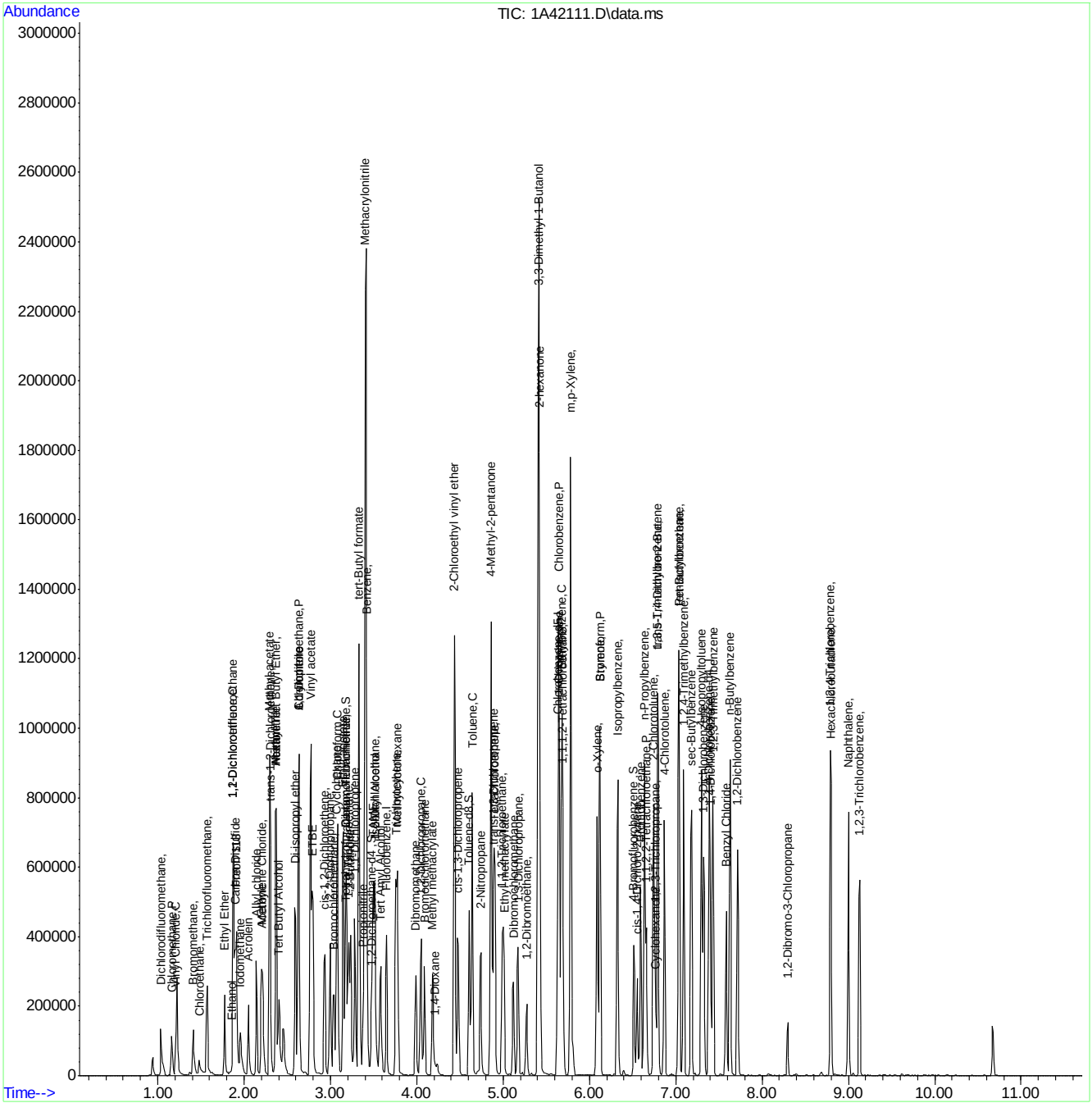
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.745	91	286376	77.92	ug/L		96
93)	trans-1,4-Dichloro-2-B...	6.791	53	43957	62.35	ug/L	#	78
94)	1,2,3-Trichloropropane	6.760	110	38512	57.91	ug/L		86
95)	Cyclohexanone	6.768	55	23875	218.93	ug/L		93
96)	4-Chlorotoluene	6.868	91	297716	75.77	ug/L		94
97)	tert-Butylbenzene	7.037	91	200290	75.85	ug/L		88
98)	1,2,4-Trimethylbenzene	7.091	105	347908	70.92	ug/L		99
99)	Pentachloroethane	7.037	167	62499	85.84	ug/L	#	61
100)	sec-Butylbenzene	7.183	105	419979	67.59	ug/L		97
101)	4-Isopropyltoluene	7.299	119	371038	66.28	ug/L		99
102)	1,3-Dichlorobenzene	7.322	146	199843	65.42	ug/L		95
103)	1,2,3-Trimethylbenzene	7.430	105	337792	72.90	ug/L		99
104)	1,4-Dichlorobenzene	7.399	146	202065	63.89	ug/L		98
105)	n-Butylbenzene	7.630	92	186775	72.10	ug/L		94
106)	Benzyl Chloride	7.583	126	51614	78.93	ug/L	#	69
107)	1,2-Dichlorobenzene	7.714	146	184045	67.92	ug/L		95
108)	1,2-Dibromo-3-Chloropr...	8.299	75	24867	71.80	ug/L	#	81
109)	Hexachlorobutadiene	8.799	225	70035	118.96	ug/L		89
110)	1,2,4-Trichlorobenzene	8.792	180	133014	88.59	ug/L		94
111)	Naphthalene	9.000	128	364055	67.14	ug/L		98
112)	1,2,3-Trichlorobenzene	9.130	180	126525	93.73	ug/L		94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42111.D
Acq On : 12 Dec 2022 2:44 pm
Operator : joannel
Sample : IC1696-6
Misc : MS52217,V1A1696,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 15:42:41 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration



Manual Integration Approval Summary

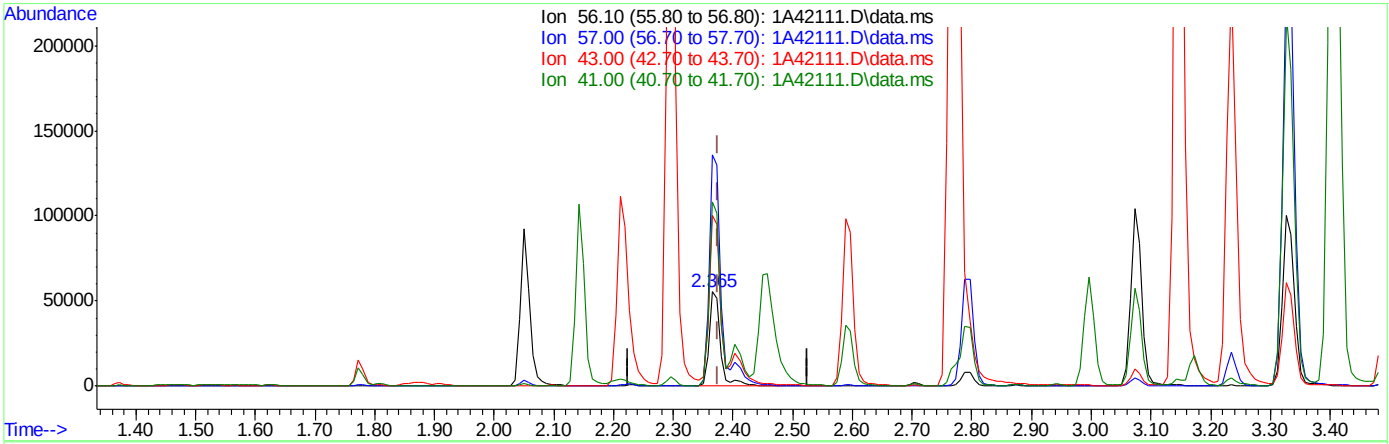
Sample Number: V1A1696-IC1696 **Method:** SW846 8260D
Lab FileID: 1A42111.D **Analyst approved:** 12/13/22 09:47 Jo-Ann Lugo De Jesus
Injection Time: 12/12/22 14:44 **Supervisor approved:** 12/13/22 12:21 Neil Christiana

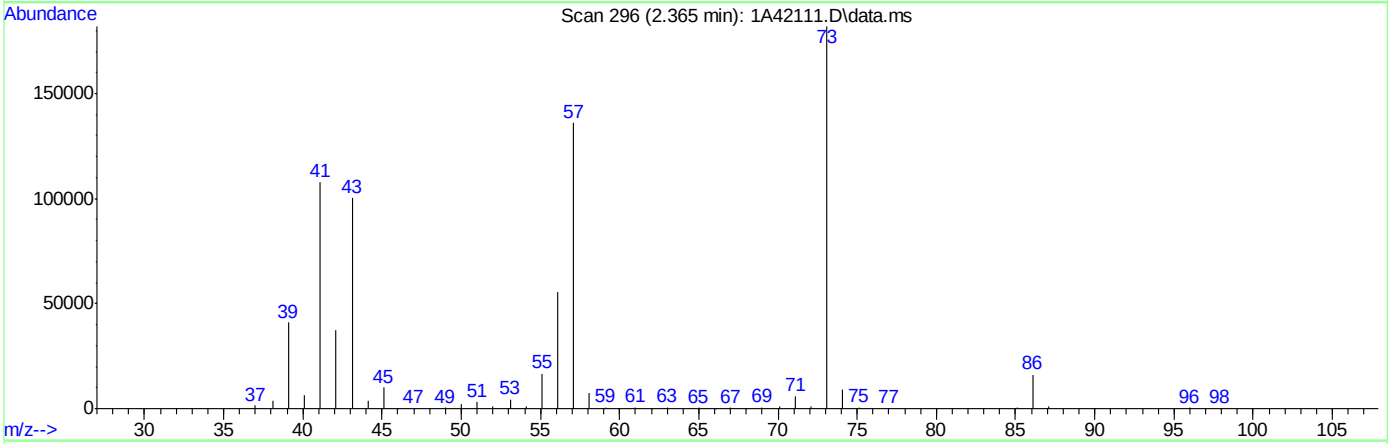
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		2.37	Overlapping peak
Acetonitrile	75-05-8		2.37	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.18	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration
Ethylbenzene	100-41-4		5.68	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42111.D
Acq On : 12 Dec 2022 2:44 pm
Operator : joannel
Sample : IC1696-6
Misc : MS52217,V1A1695,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 15:22:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42111.D\data.ms

(22) Hexane

2.365min (-0.011) 82.24ug/L

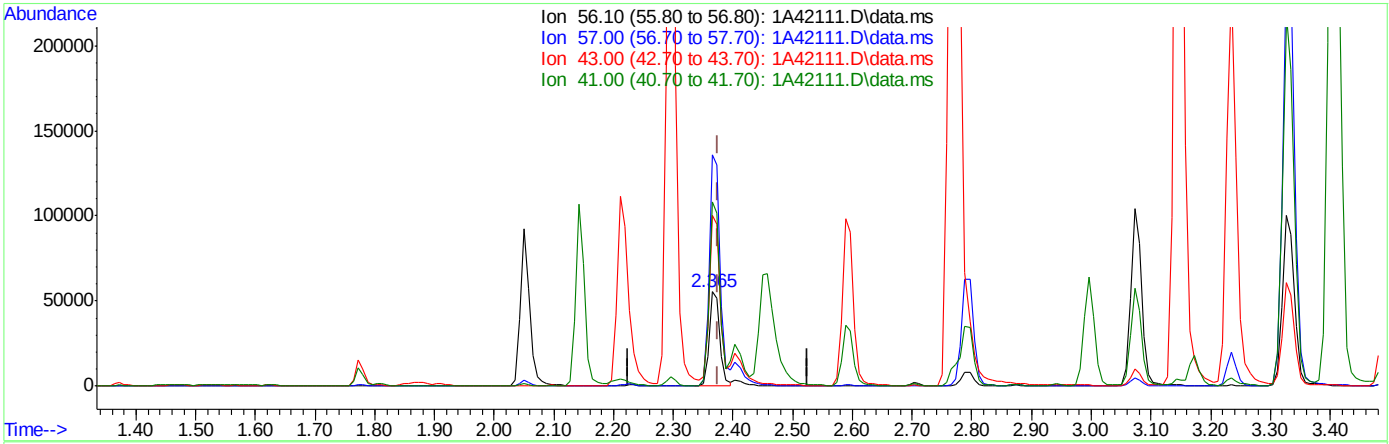
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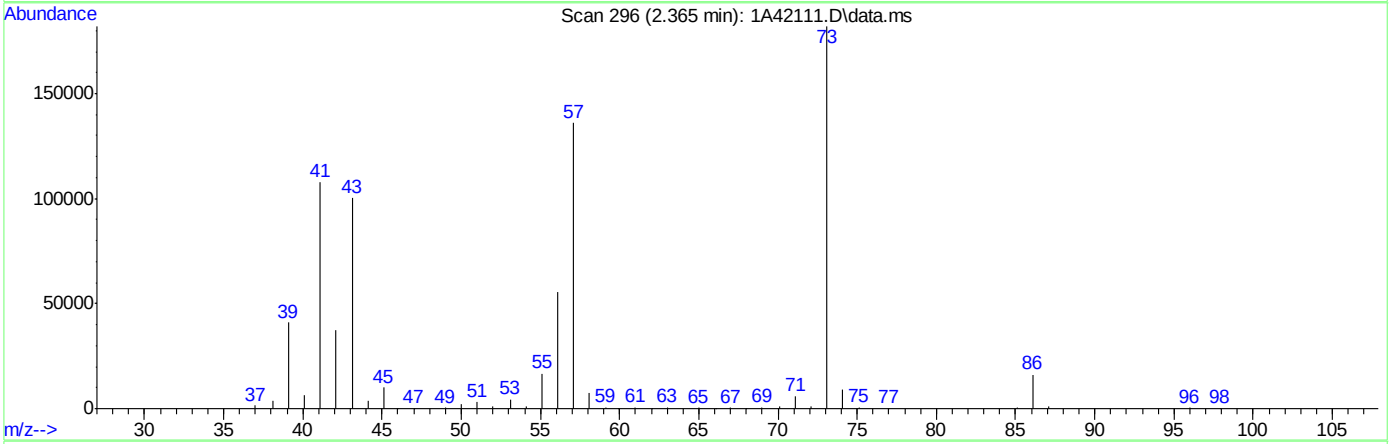
Ion	Exp%	Act%
56.10	100	100
57.00	257.60	246.51
43.00	191.30	180.00
41.00	225.50	195.20#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42111.D
Acq On : 12 Dec 2022 2:44 pm
Operator : joannel
Sample : IC1696-6
Misc : MS52217,V1A1695,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 15:22:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42111.D\data.ms

(22) Hexane

2.365min (-0.011) 77.92ug/L m

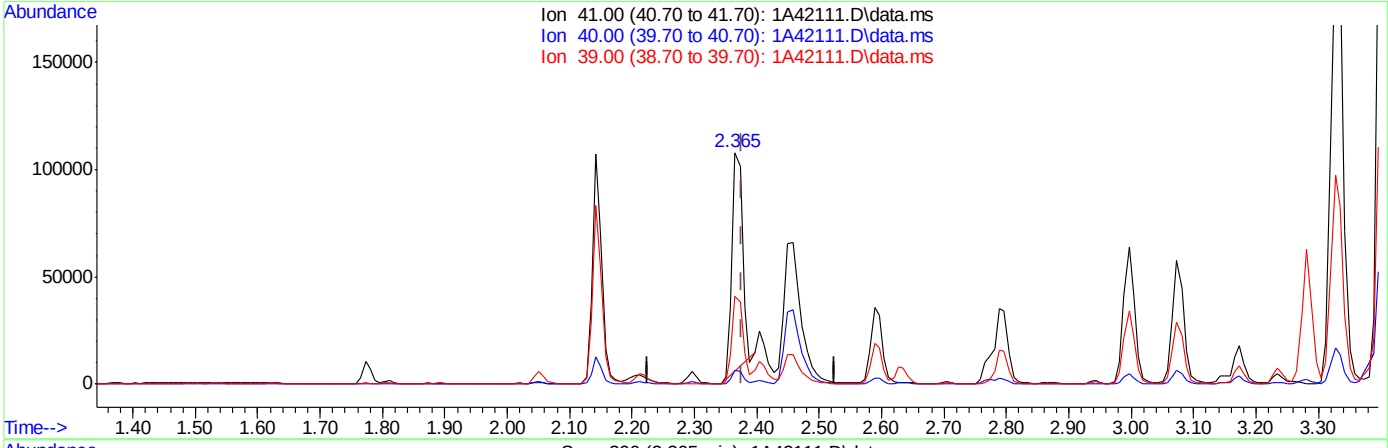
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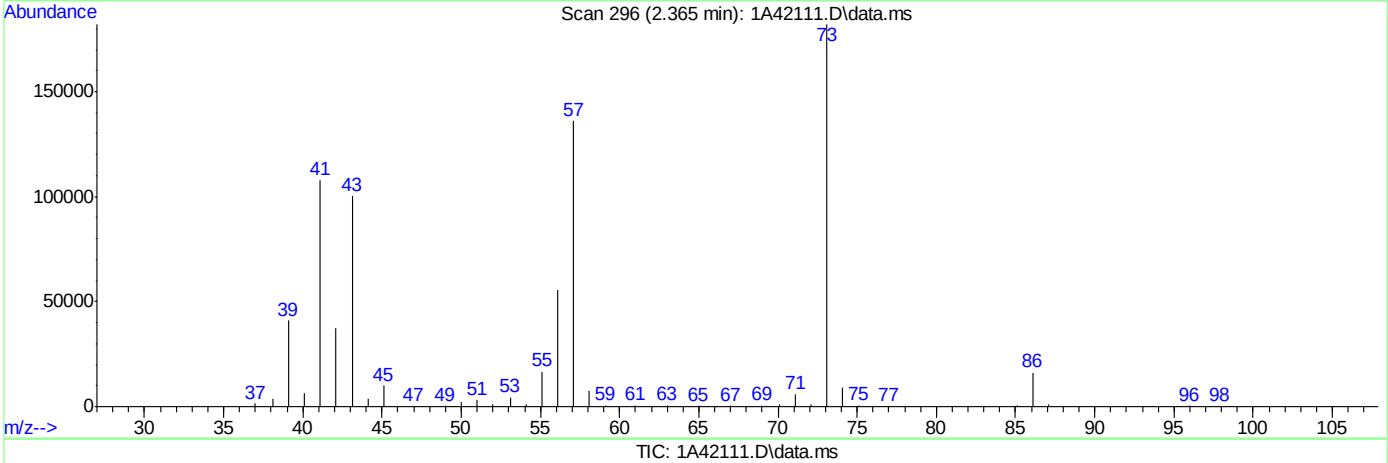
Ion	Exp%	Act%
56.10	100	100
57.00	257.60	245.96
43.00	191.30	181.29
41.00	225.50	195.33#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42111.D
Acq On : 12 Dec 2022 2:44 pm
Operator : joannel
Sample : IC1696-6
Misc : MS52217,V1A1695,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 15:22:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42111.D\data.ms

(24) Acetonitrile

2.365min (-0.011) 580.46ug/L

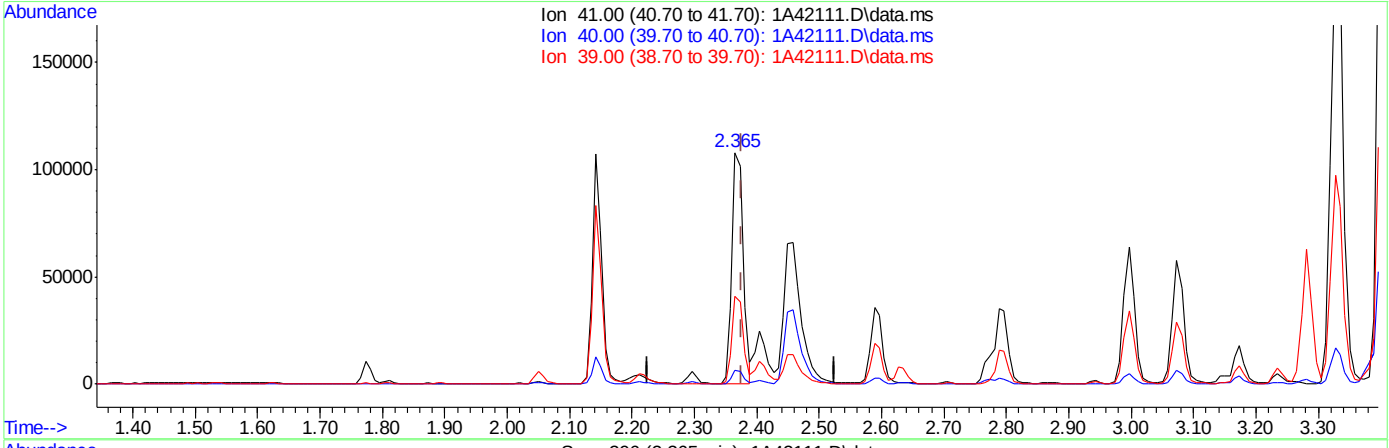
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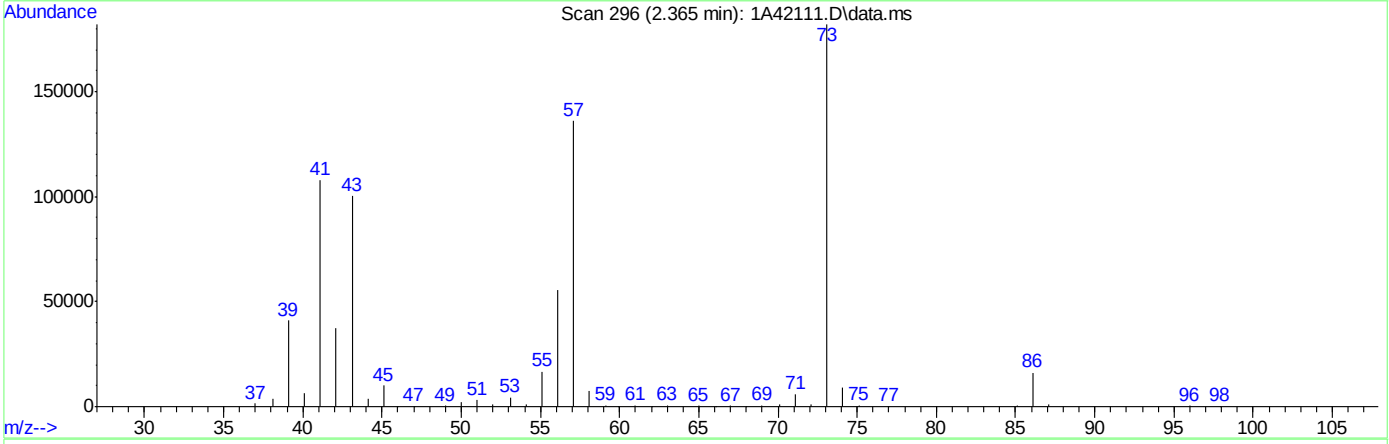
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.07
39.00	39.30	37.88
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42111.D
Acq On : 12 Dec 2022 2:44 pm
Operator : joannel
Sample : IC1696-6
Misc : MS52217,V1A1695,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 15:22:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42111.D\data.ms

(24) Acetonitrile

2.365min (-0.011) 668.11ug/L m

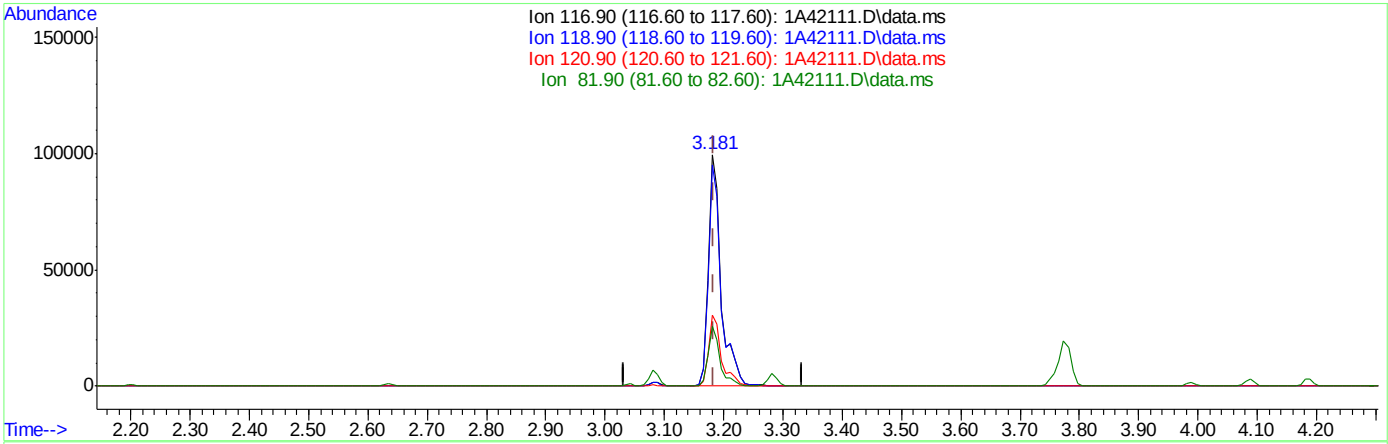
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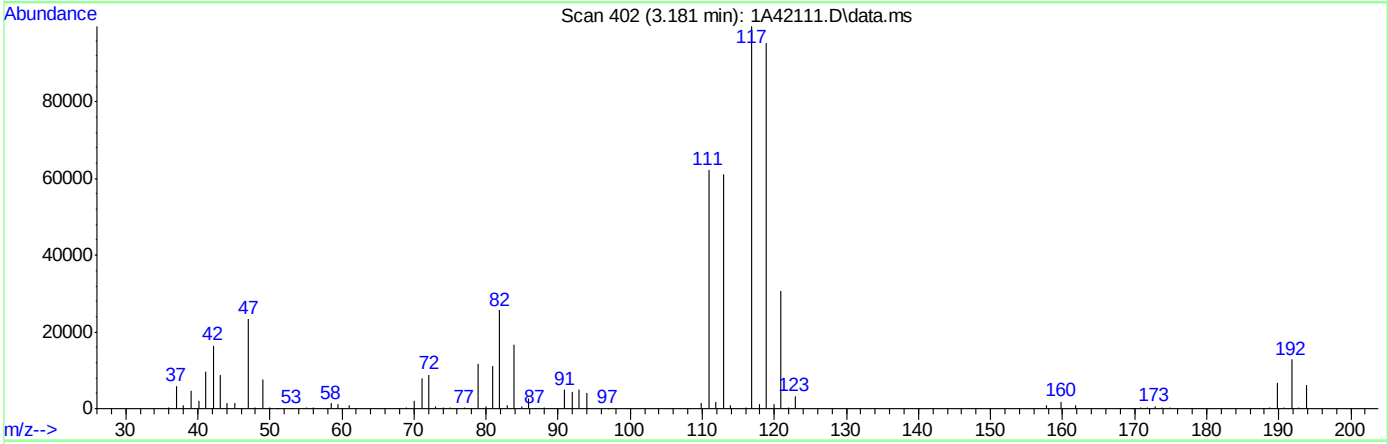
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.19
39.00	39.30	37.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42111.D
Acq On : 12 Dec 2022 2:44 pm
Operator : joannel
Sample : IC1696-6
Misc : MS52217,V1A1695,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 15:22:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42111.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (-0.002) 97.32ug/L

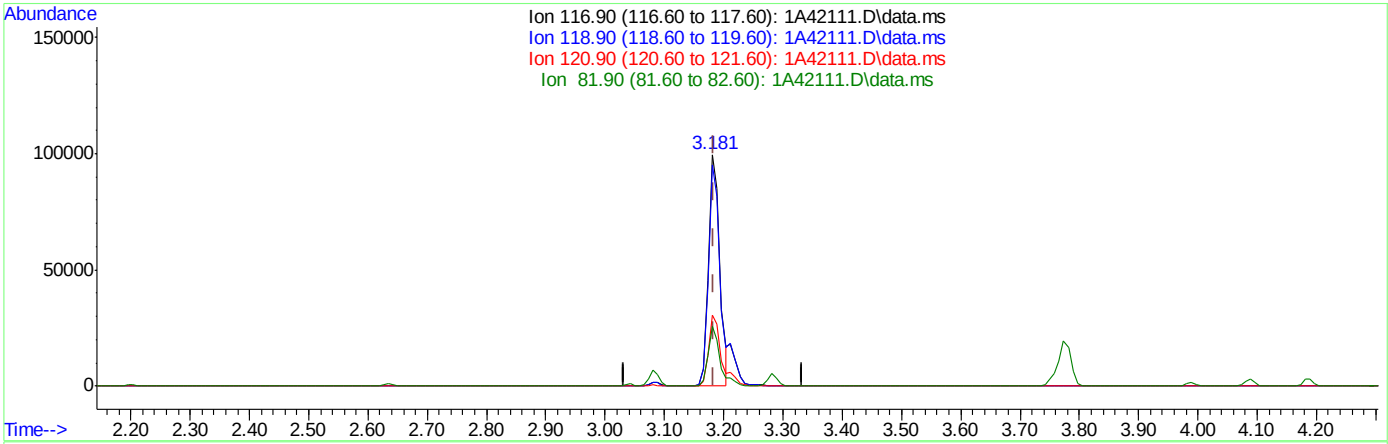
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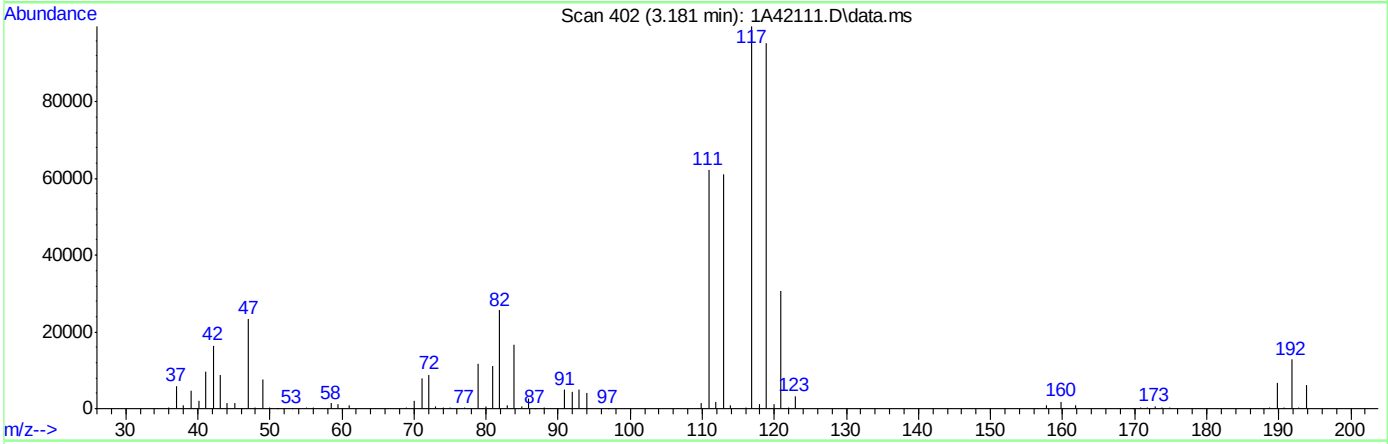
Ion	Exp%	Act%
116.90	100	100
118.90	88.40	95.74
120.90	29.50	30.69
81.90	25.50	25.67

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42111.D
Acq On : 12 Dec 2022 2:44 pm
Operator : joannel
Sample : IC1696-6
Misc : MS52217,V1A1695,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 15:22:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42111.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (-0.002) 87.13ug/L m

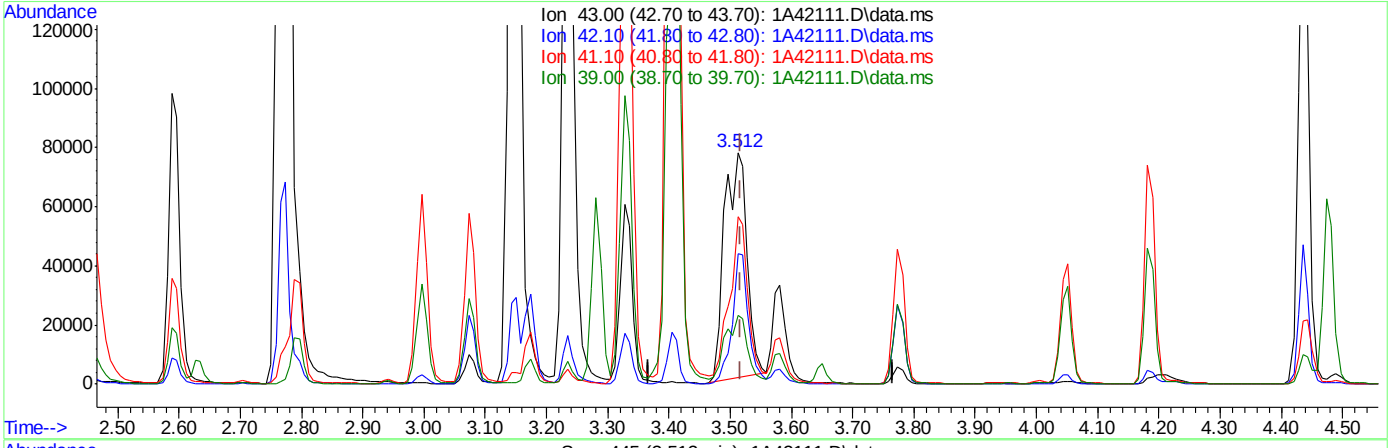
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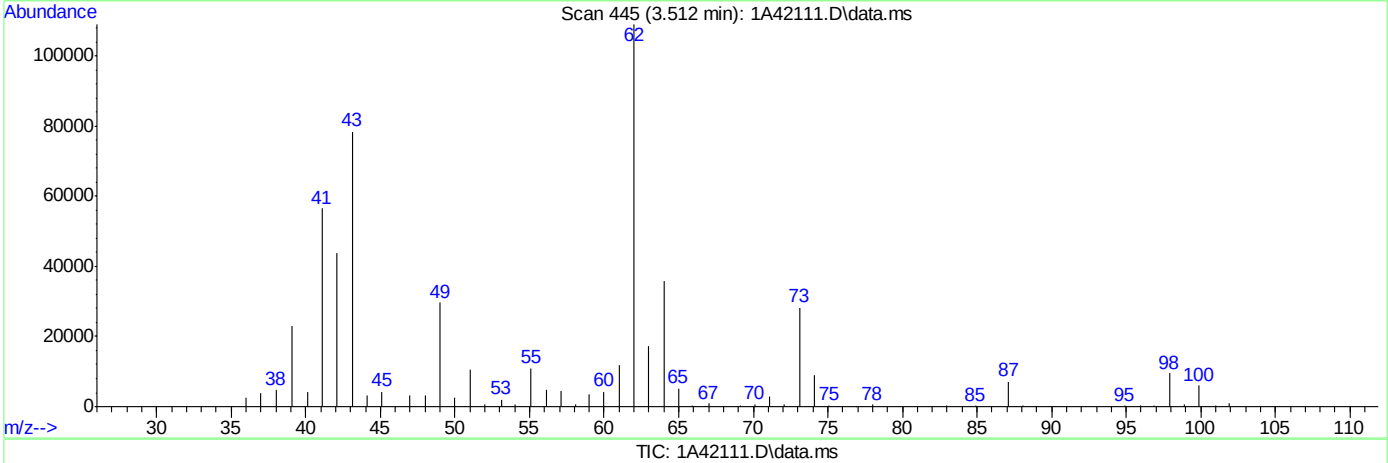
Ion	Exp%	Act%
116.90	100	100
118.90	88.40	95.74
120.90	29.50	30.69
81.90	25.50	25.67

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42111.D
Acq On : 12 Dec 2022 2:44 pm
Operator : joannel
Sample : IC1696-6
Misc : MS52217,V1A1695,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 15:22:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42111.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.005) 1605.74ug/L

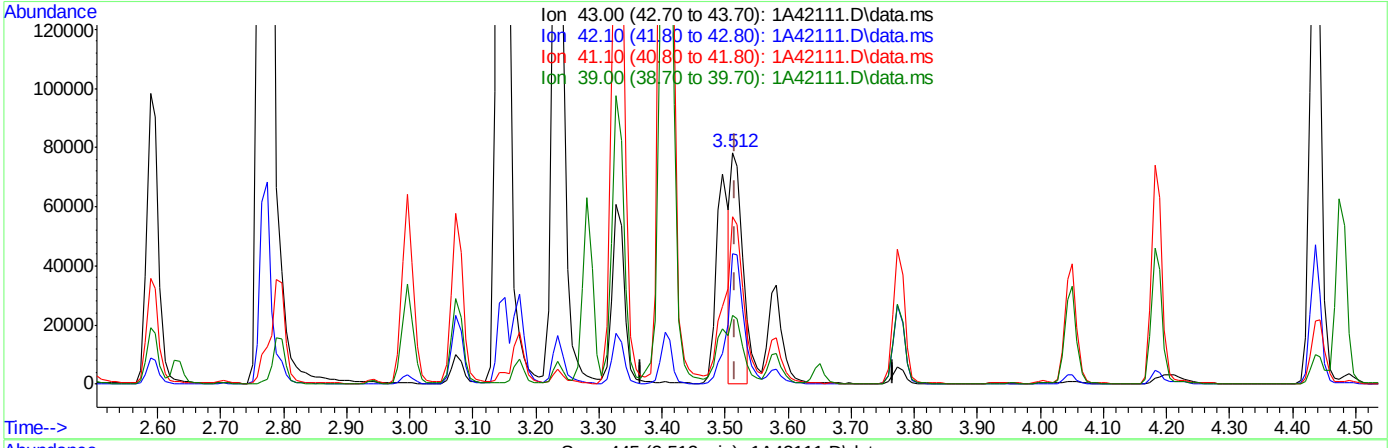
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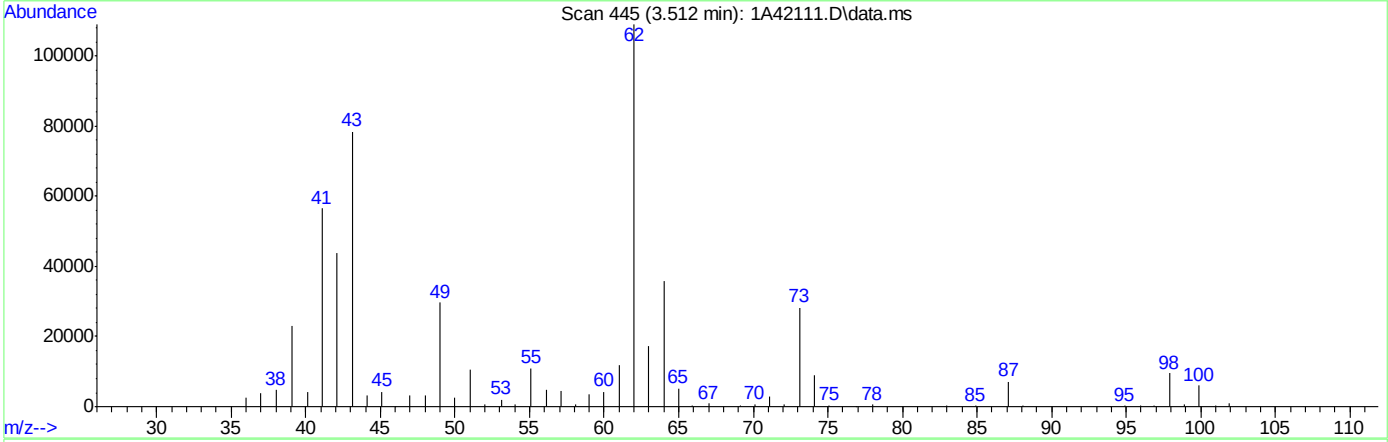
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	56.15
41.10	70.50	68.99
39.00	29.30	27.62

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42111.D
Acq On : 12 Dec 2022 2:44 pm
Operator : joannel
Sample : IC1696-6
Misc : MS52217,V1A1695,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 15:22:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42111.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.005) 790.67ug/L m

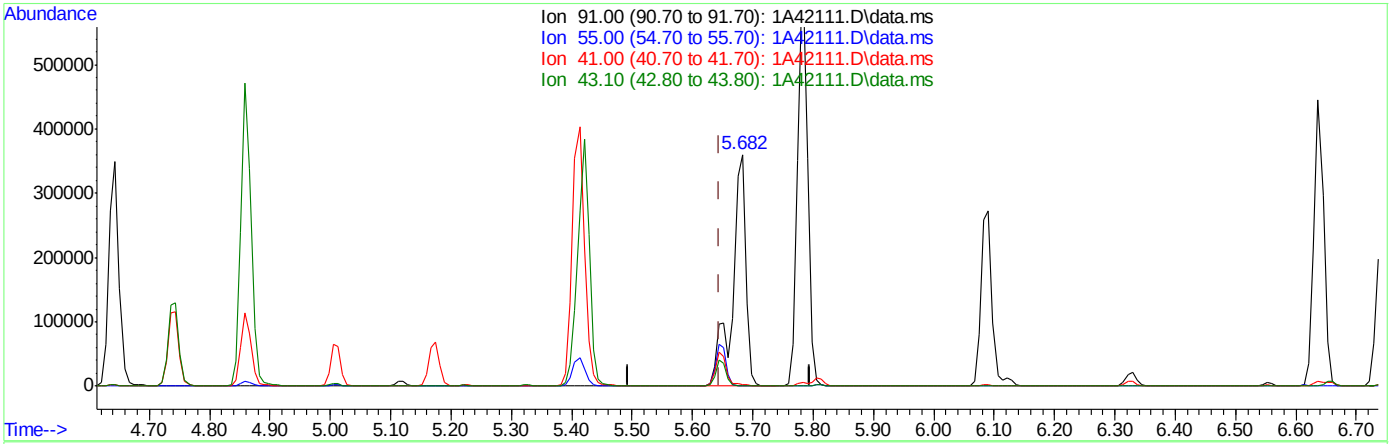
response 99888

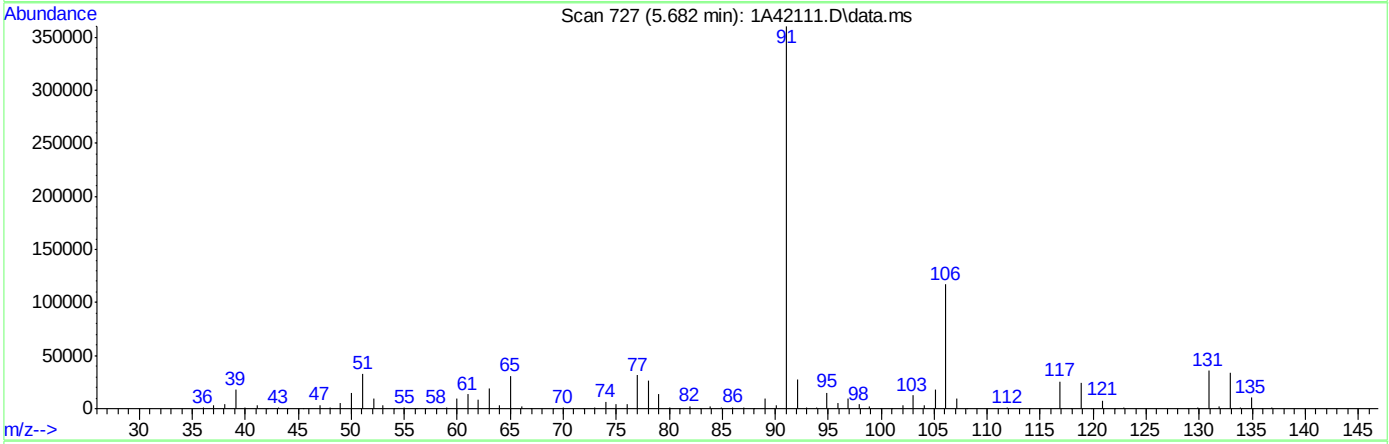
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	56.09
41.10	70.50	72.04
39.00	29.30	29.56

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42111.D
Acq On : 12 Dec 2022 2:44 pm
Operator : joannel
Sample : IC1696-6
Misc : MS52217,V1A1695,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 15:22:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42111.D\data.ms

(76) 1-Chlorohexane

5.682min (+0.037) 301.26ug/L

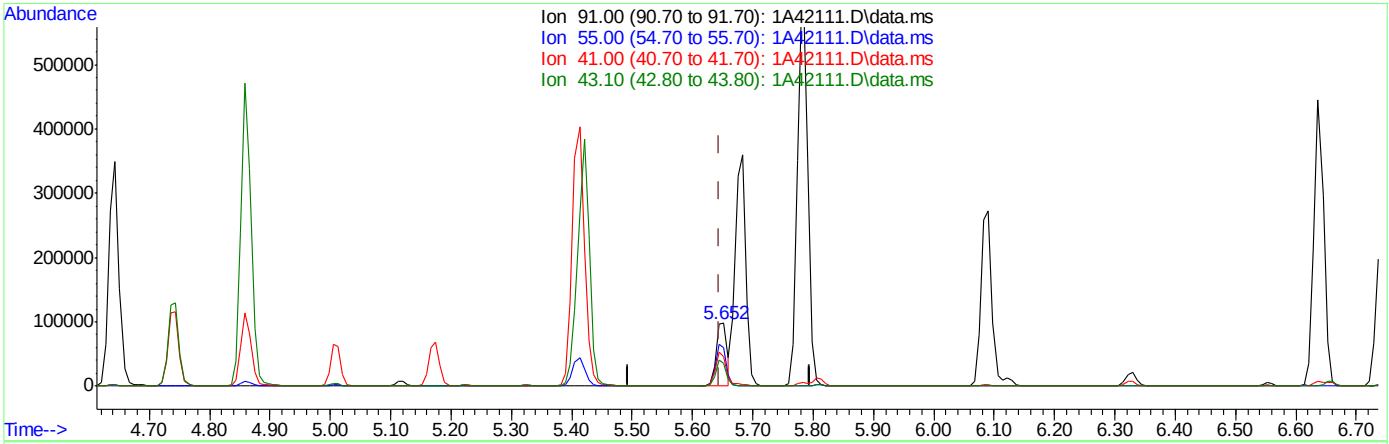
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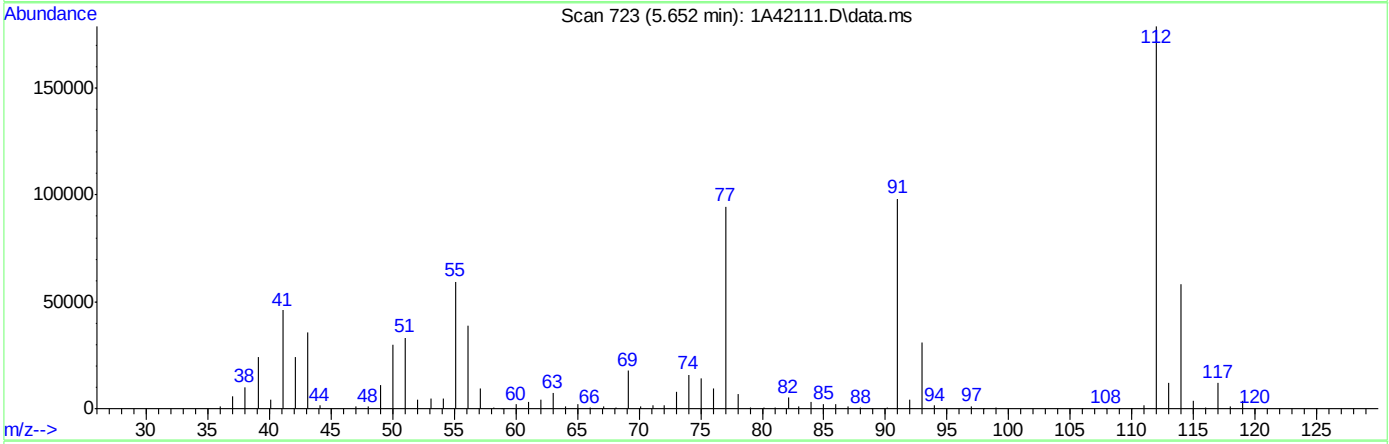
Ion	Exp%	Act%
91.00	100	100
55.00	65.30	0.14#
41.00	65.50	0.71#
43.10	48.90	0.11#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42111.D
Acq On : 12 Dec 2022 2:44 pm
Operator : joannel
Sample : IC1696-6
Misc : MS52217,V1A1695,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 15:22:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42111.D\data.ms

(76) 1-Chlorohexane

5.652min (+0.007) 67.68ug/L m

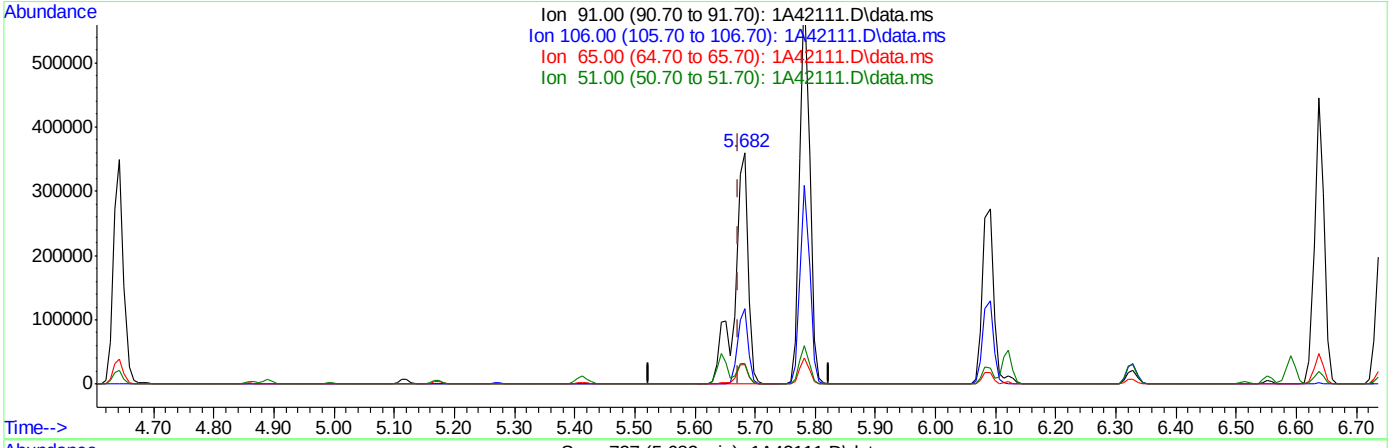
response 126402

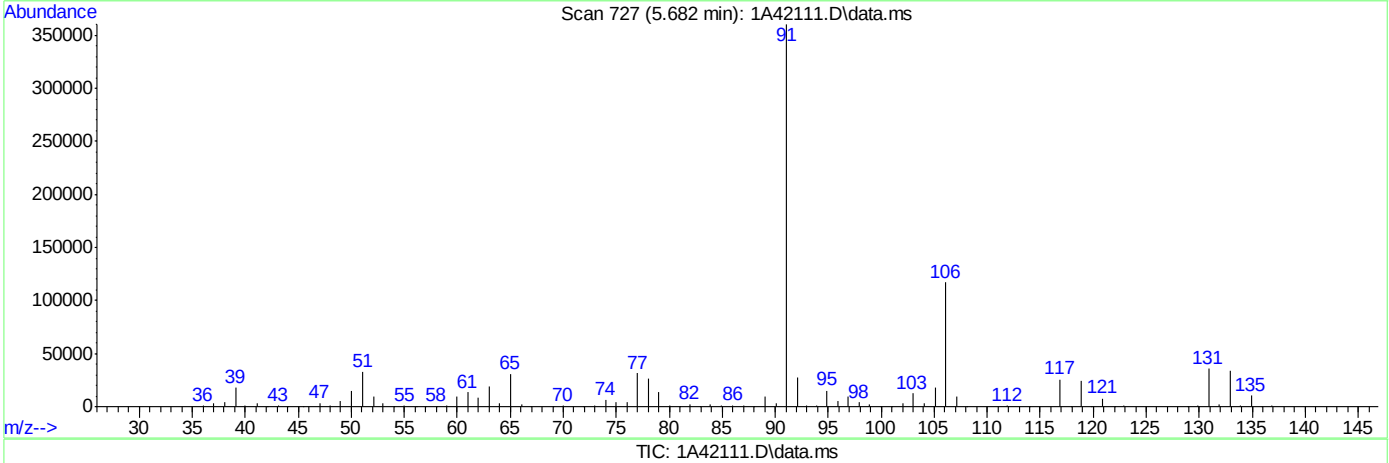
Ion	Exp%	Act%
91.00	100	100
55.00	65.30	60.59
41.00	65.50	46.89
43.10	48.90	36.13

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42111.D
Acq On : 12 Dec 2022 2:44 pm
Operator : joannel
Sample : IC1696-6
Misc : MS52217,V1A1695,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 15:22:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42111.D\data.ms

(77) Ethylbenzene (C)

5.682min (+0.009) 91.77ug/L

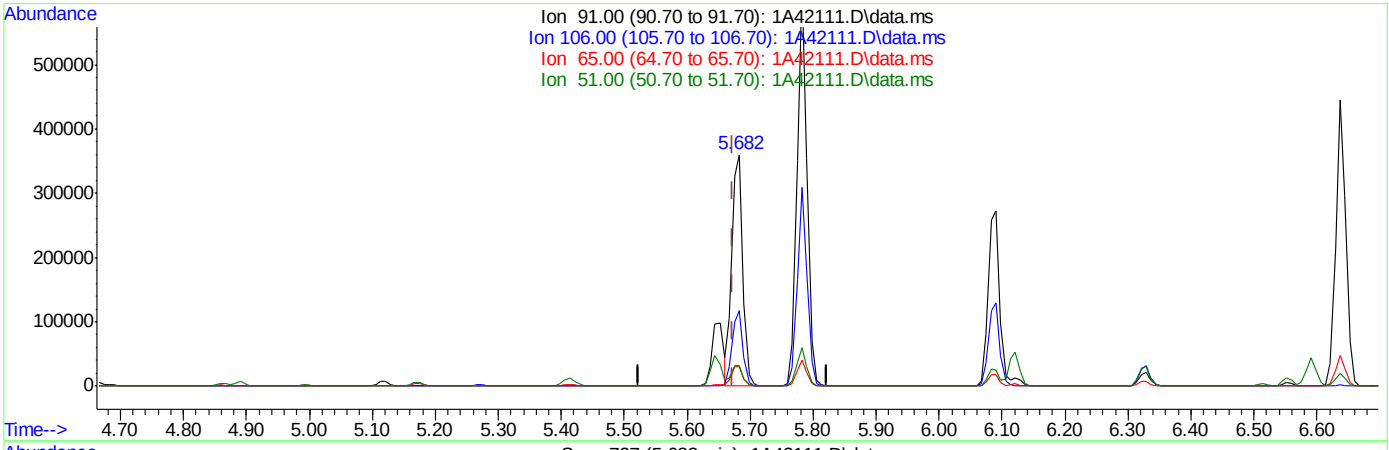
response 563256

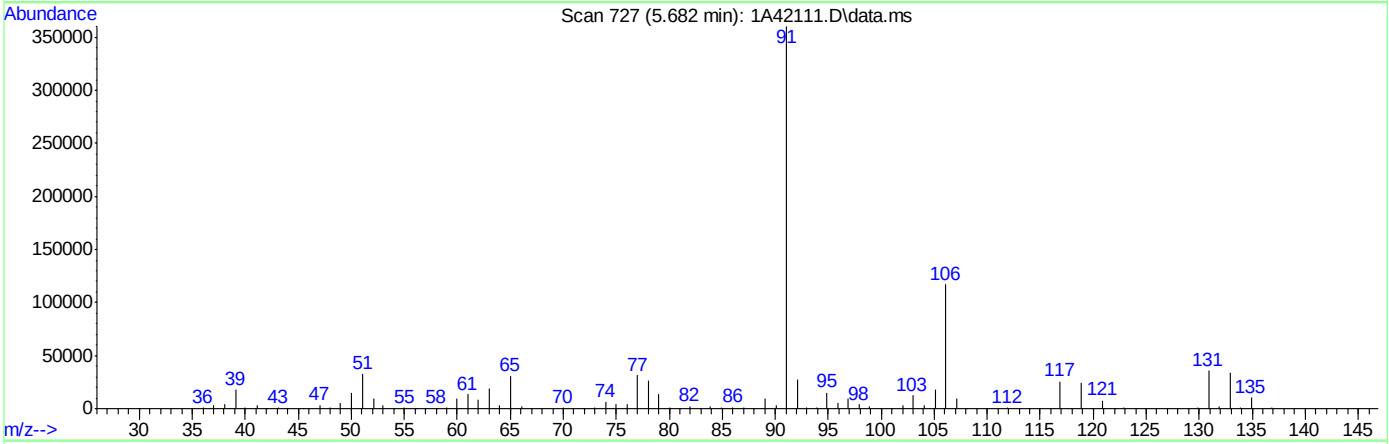
Ion	Exp%	Act%
91.00	100	100
106.00	34.20	32.49
65.00	8.60	8.58
51.00	10.30	9.05

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42111.D
Acq On : 12 Dec 2022 2:44 pm
Operator : joannel
Sample : IC1696-6
Misc : MS52217,V1A1695,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 15:22:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42111.D\data.ms

(77) Ethylbenzene (C)

5.682min (+0.009) 71.12ug/L m

response 436495

Ion	Exp%	Act%
91.00	100	100
106.00	34.20	32.49
65.00	8.60	8.58
51.00	10.30	9.05

1A42112.D

Manual Integrations APPROVED (compounds with "m" flag)

Neil Christiana 12/13/22 12:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42112.D
Acq On : 12 Dec 2022 3:08 pm
Operator : joannel
Sample : IC1696-7
Misc : MS52217,V1A1696,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 15:45:55 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.651	96	225222	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.636	117	182507	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	91035	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.181	113	71838	57.05	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 114.10%				
49) 1,2-Dichloroethane-d4	3.474	65	71763	53.52	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.04%				
63) Toluene-d8	4.605	98	232528	57.28	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 114.56%#				
86) 4-Bromofluorobenzene	6.514	174	80154	58.46	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 116.92%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.034	85	148435	154.80	ug/L		90
3) Chloromethane	1.165	50	125653	105.00	ug/L		95
4) 1,3-butadiene	1.226	39	92536	Below Cal			84
5) Vinyl Chloride	1.211	62	133169	87.98	ug/L		97
6) Bromomethane	1.411	94	75926	36.79	ug/L		100
7) Chloroethane	1.480	64	26654	13.56	ug/L		94
8) Trichlorofluoromethane	1.573	101	149529	30.78	ug/L		99
9) Ethyl Ether	1.780	59	101531	113.60	ug/L	#	83
10) Ethanol	1.865	45	37608	1542.89	ug/L		100
11) 1,2-Dichlorotrifluoroe...	1.873	67	156018	202.41	ug/L		97
12) 1,1-Dichloroethene	1.873	61	189037	Below Cal			97
13) Freon 113	1.911	101	137279	240.34	ug/L		98
14) Carbon Disulfide	1.896	76	356094	Below Cal			86
15) Iodomethane	1.957	142	165784	Below Cal			97
16) Acrolein	2.050	56	139389	389.86	ug/L		98
17) Allyl chloride	2.142	41	159303	132.18	ug/L		94
18) Methylene Chloride	2.204	49	147187	106.56	ug/L		82
19) Acetone	2.219	43	206688	377.36	ug/L		95
20) Methyl acetate	2.296	43	546379	362.51	ug/L		91
21) trans-1,2-Dichloroethene	2.304	61	188317	134.31	ug/L		95
22) Hexane	2.365	56	105427m	116.34	ug/L		
23) Methyl Tert Butyl Ether	2.373	73	397939	134.15	ug/L	#	65
24) Acetonitrile	2.373	41	203412m	1021.53	ug/L		
25) Tert Butyl Alcohol	2.412	59	250734	876.05	ug/L		94
26) Di-isopropyl ether	2.596	45	368382	101.52	ug/L		91
27) Chloroprene	2.635	53	420805	77.22	ug/L		94
28) 1,1-Dichloroethane	2.635	63	233546	112.21	ug/L		97
29) Acrylonitrile	2.635	52	253656	358.63	ug/L		96
30) ETBE	2.796	59	399448	111.95	ug/L		95
31) Vinyl acetate	2.773	43	1221067	471.82	ug/L		97
32) cis-1,2-Dichloroethene	2.935	96	144208	119.94	ug/L		94
33) 2,2-Dichloropropane	2.996	77	214087	153.95	ug/L		98
34) Bromochloromethane	3.043	128	66031	105.14	ug/L	#	79
35) Cyclohexane	3.073	56	206272	117.60	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42112.D
Acq On : 12 Dec 2022 3:08 pm
Operator : joannel
Sample : IC1696-7
Misc : MS52217,V1A1696,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 15:45:55 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.081	83	253937	122.17	ug/L		96
37) Ethyl acetate	3.150	43	720104	350.45	ug/L		92
38) Tetrahydrofuran	3.173	42	49316m	67.42	ug/L		
40) Carbon Tetrachloride	3.181	117	195053m	120.56	ug/L		
41) 1,1,1-Trichloroethane	3.212	97	217911	134.21	ug/L		98
42) 2-Butanone	3.235	43	372729	338.21	ug/L		87
43) 1,1-Dichloropropene	3.281	75	188880	135.67	ug/L		91
44) tert-Butyl formate	3.335	59	574604	593.33	ug/L	#	87
45) Propionitrile	3.389	54	217732	635.43	ug/L		92
46) Methacrylonitrile	3.412	41	844989	586.20	ug/L		95
47) Benzene	3.420	78	539321	95.40	ug/L		91
48) TAME	3.497	73	386263	115.11	ug/L		88
50) 1,2-Dichloroethane	3.512	62	185279	99.27	ug/L		91
51) Isobutyl Alcohol	3.520	43	157623m	1269.85	ug/L		
52) Tert Amyl Alcohol	3.581	59	202550	767.21	ug/L		92
53) Trichloroethene	3.758	95	151795	103.14	ug/L		94
54) Methylcyclohexane	3.774	83	230319	112.24	ug/L		92
55) Dibromomethane	3.989	93	91554	102.02	ug/L		94
56) 1,2-Dichloropropane	4.051	63	135678	102.73	ug/L		89
57) Bromodichloromethane	4.089	83	182088	114.13	ug/L		91
58) Methyl methacrylate	4.182	41	125032	86.61	ug/L		87
59) 1,4-Dioxane	4.212	88	38693	1614.35	ug/L		91
60) 2-Chloroethyl vinyl ether	4.436	63	466360	491.21	ug/L		88
61) cis-1,3-Dichloropropene	4.474	75	221646	125.86	ug/L		87
64) Toluene	4.643	91	586052	108.11	ug/L		96
65) 2-Nitropropane	4.744	41	213804	467.56	ug/L		94
66) 4-Methyl-2-pentanone	4.859	43	758256	332.78	ug/L		89
67) trans-1,3-Dichloropropene	4.890	75	195131	128.94	ug/L		85
68) Tetrachloroethene	4.905	166	167285	109.15	ug/L		95
69) Ethyl methacrylate	5.013	69	177870	137.05	ug/L	#	72
70) 1,1,2-Trichloroethane	4.990	83	106398	125.83	ug/L		96
71) Dibromochloromethane	5.121	129	148315	110.96	ug/L		94
72) 1,3-Dichloropropane	5.174	76	212829	135.47	ug/L		86
73) 1,2-Dibromoethane	5.275	107	140234	107.84	ug/L		93
74) 3,3-Dimethyl-1-Butanol	5.413	57	1137624	4468.08	ug/L		89
75) 2-hexanone	5.421	43	714832	318.43	ug/L		78
76) 1-Chlorohexane	5.652	91	185086m	99.08	ug/L		
77) Ethylbenzene	5.682	91	625888m	101.96	ug/L		
78) Chlorobenzene	5.644	112	375624	95.72	ug/L		92
79) 1,1,1,2-Tetrachloroethane	5.690	131	139372	102.94	ug/L		93
80) m,p-Xylene	5.782	91	985336	206.34	ug/L		95
81) o-Xylene	6.090	91	504089	112.33	ug/L		98
82) Styrene	6.121	104	395675	105.39	ug/L		95
83) Bromoform	6.121	173	100734	114.56	ug/L		95
84) Isopropylbenzene	6.329	105	595462	101.58	ug/L		97
87) cis-1,4-Dichloro-2-butene	6.552	53	56974	100.77	ug/L	#	81
88) n-Propylbenzene	6.637	91	700128	103.75	ug/L		96
89) Bromobenzene	6.591	156	160189	103.16	ug/L		91
90) 1,1,2,2-Tetrachloroethane	6.660	83	174218	90.37	ug/L		99
91) 1,3,5-Trimethylbenzene	6.791	105	507084	102.92	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42112.D
Acq On : 12 Dec 2022 3:08 pm
Operator : joannel
Sample : IC1696-7
Misc : MS52217,V1A1696,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 15:45:55 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration

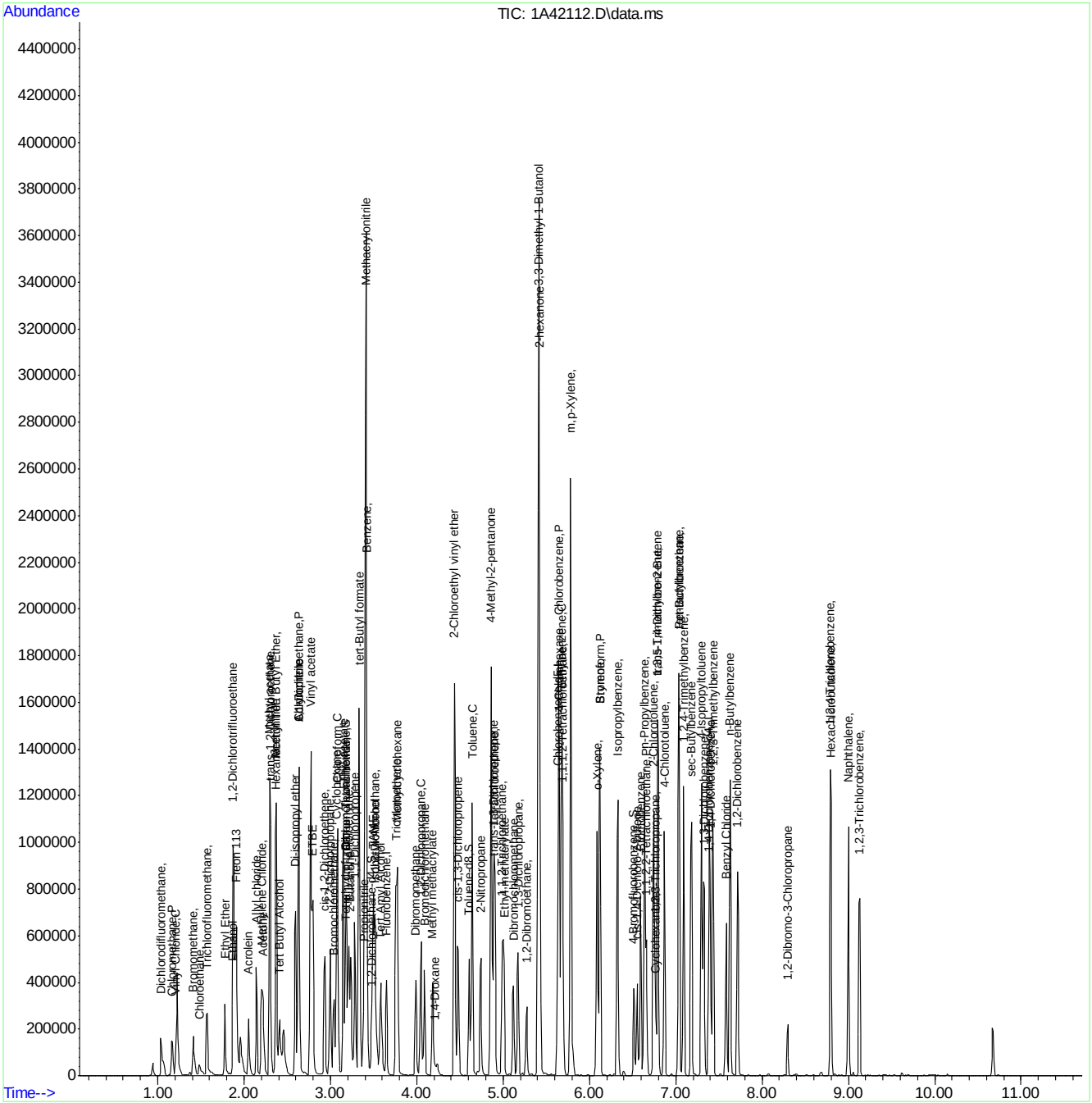
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 2-Chlorotoluene	6.745	91	406263	112.29	ug/L		96
93) trans-1,4-Dichloro-2-B...	6.791	53	61970	89.30	ug/L	#	76
94) 1,2,3-Trichloropropane	6.760	110	53184	81.24	ug/L		85
95) Cyclohexanone	6.768	55	33027	307.67	ug/L		93
96) 4-Chlorotoluene	6.868	91	421914	109.09	ug/L		93
97) tert-Butylbenzene	7.037	91	279472	107.52	ug/L		89
98) 1,2,4-Trimethylbenzene	7.091	105	491088	101.70	ug/L		99
99) Pentachloroethane	7.037	167	87396	117.41	ug/L	#	60
100) sec-Butylbenzene	7.183	105	593078	96.96	ug/L		98
101) 4-Isopropyltoluene	7.299	119	518394	94.07	ug/L		99
102) 1,3-Dichlorobenzene	7.329	146	279159	92.84	ug/L		98
103) 1,2,3-Trimethylbenzene	7.430	105	473094	103.72	ug/L		98
104) 1,4-Dichlorobenzene	7.399	146	281373	90.38	ug/L		98
105) n-Butylbenzene	7.630	92	261009	102.36	ug/L		94
106) Benzyl Chloride	7.583	126	72792	102.99	ug/L	#	76
107) 1,2-Dichlorobenzene	7.714	146	258044	96.74	ug/L		95
108) 1,2-Dibromo-3-Chloropr...	8.299	75	36204	97.91	ug/L	#	83
109) Hexachlorobutadiene	8.799	225	101912	185.09	ug/L		89
110) 1,2,4-Trichlorobenzene	8.792	180	187005	126.53	ug/L		94
111) Naphthalene	9.000	128	509975	95.55	ug/L		97
112) 1,2,3-Trichlorobenzene	9.130	180	175490	128.21	ug/L		94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42112.D
Acq On : 12 Dec 2022 3:08 pm
Operator : joannel
Sample : IC1696-7
Misc : MS52217,V1A1696,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 15:45:55 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration



V1A_12-12-2022.M Tue Dec 13 09:40:59 2022 Page: 4

Manual Integration Approval Summary

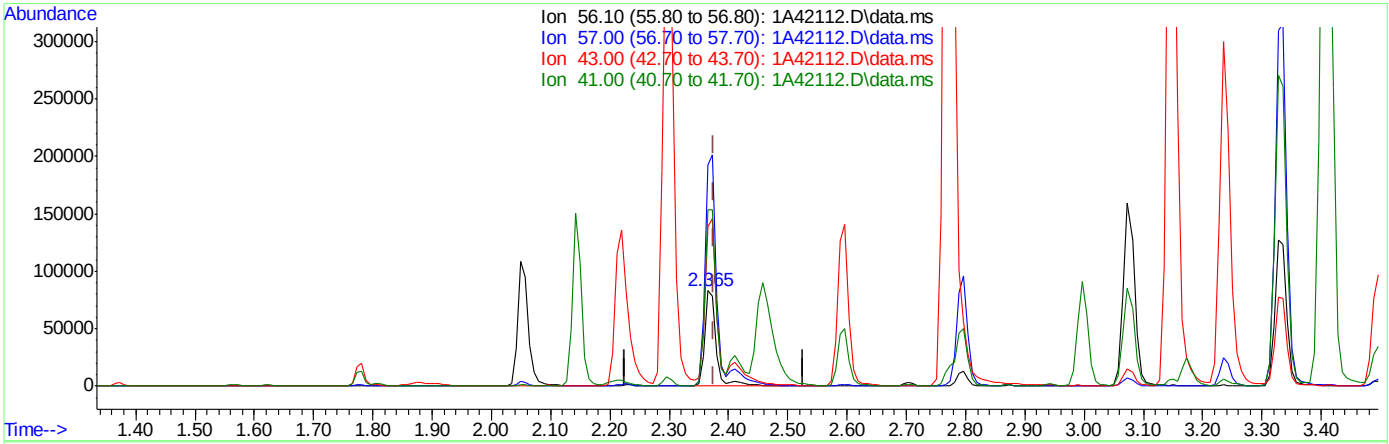
Sample Number: V1A1696-IC1696 **Method:** SW846 8260D
Lab FileID: 1A42112.D **Analyst approved:** 12/13/22 09:47 Jo-Ann Lugo De Jesus
Injection Time: 12/12/22 15:08 **Supervisor approved:** 12/13/22 12:21 Neil Christiana

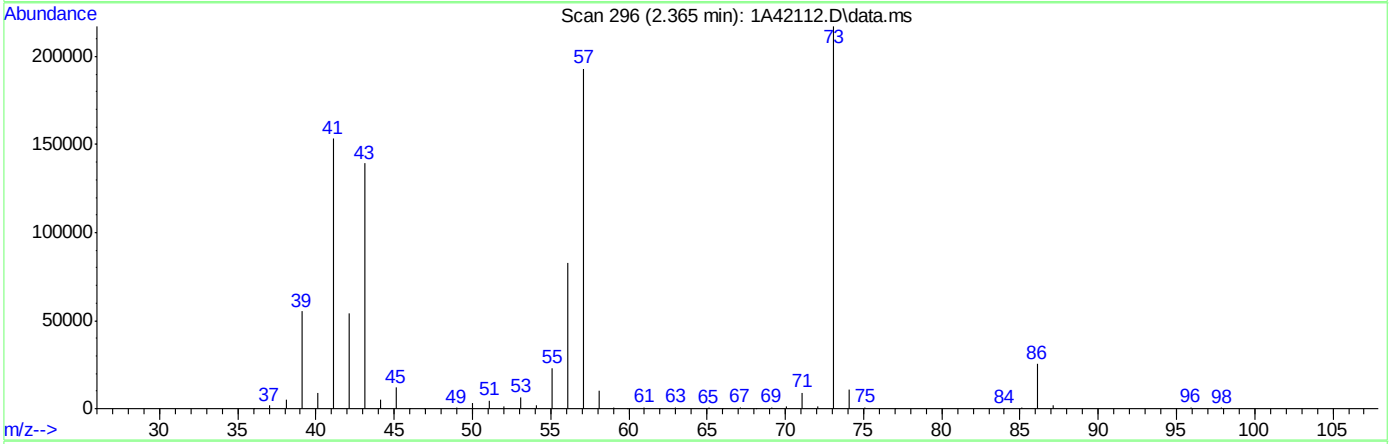
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		2.37	Overlapping peak
Acetonitrile	75-05-8		2.37	Poor instrument integration
Tetrahydrofuran	109-99-9		3.17	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.18	Overlapping peak
Isobutyl Alcohol	78-83-1		3.52	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration
Ethylbenzene	100-41-4		5.68	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42112.D
Acq On : 12 Dec 2022 3:08 pm
Operator : joannel
Sample : IC1696-7
Misc : MS52217,V1A1695,,,,,
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Quant Time: Dec 12 15:22:27 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42112.D\data.ms

(22) Hexane

2.365min (-0.011) 121.79ug/L

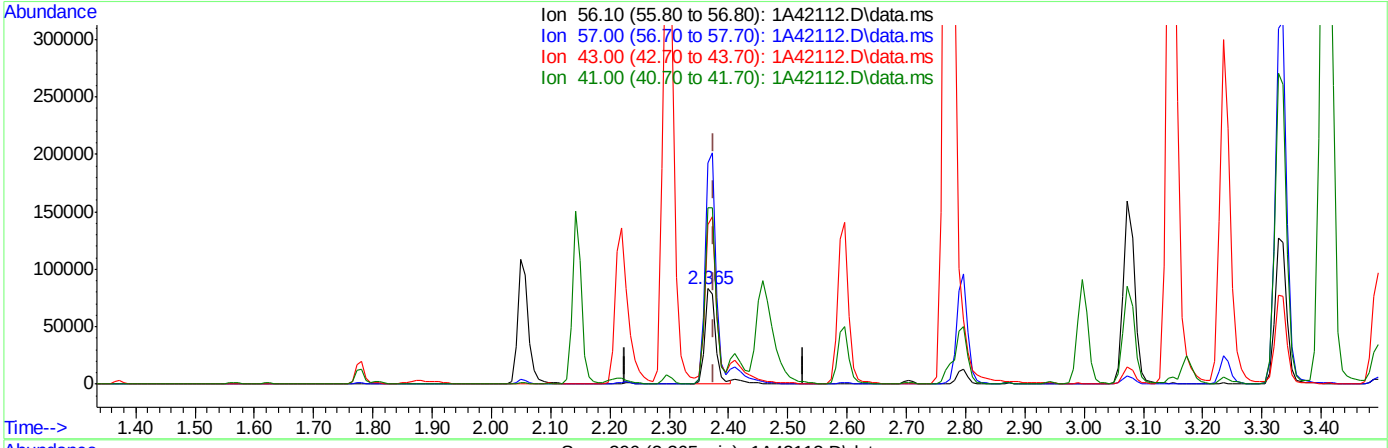
response 110646

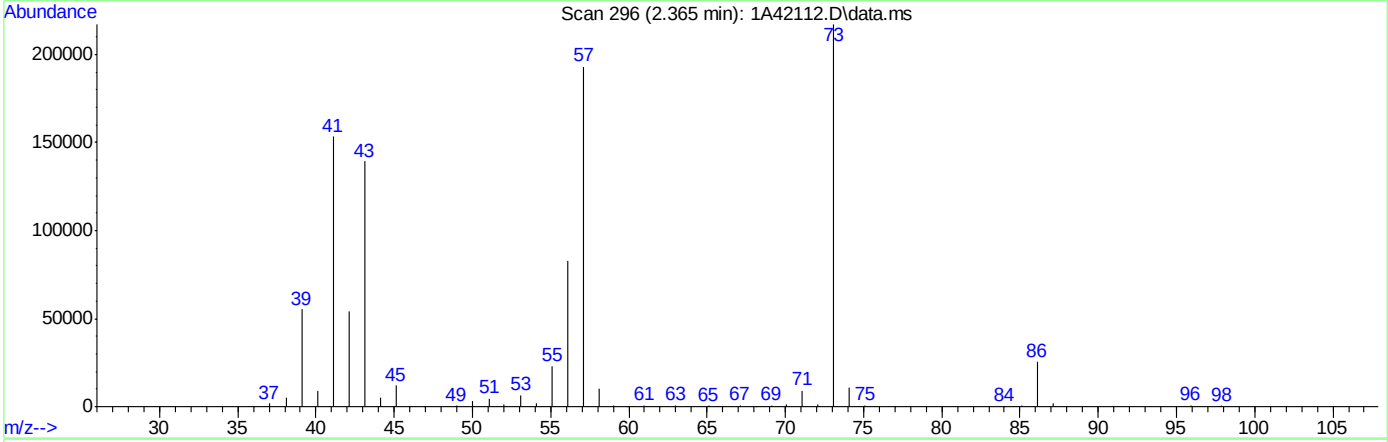
Ion	Exp%	Act%
56.10	100	100
57.00	257.60	233.29#
43.00	191.30	166.97#
41.00	225.50	184.79#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42112.D
Acq On : 12 Dec 2022 3:08 pm
Operator : joannel
Sample : IC1696-7
Misc : MS52217,V1A1695,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 15:22:27 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42112.D\data.ms

(22) Hexane

2.365min (-0.011) 116.34ug/L m

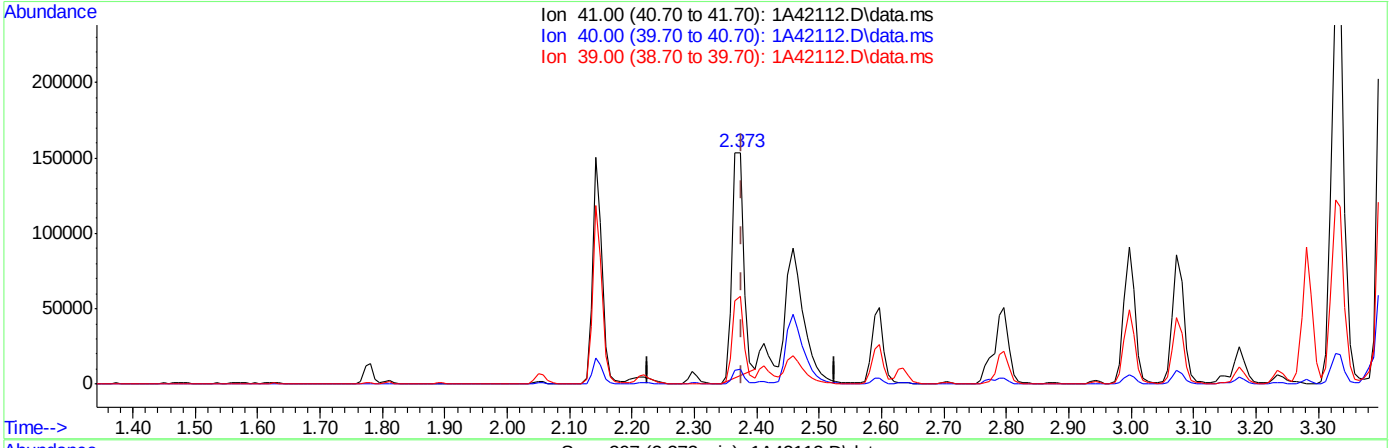
response 105427

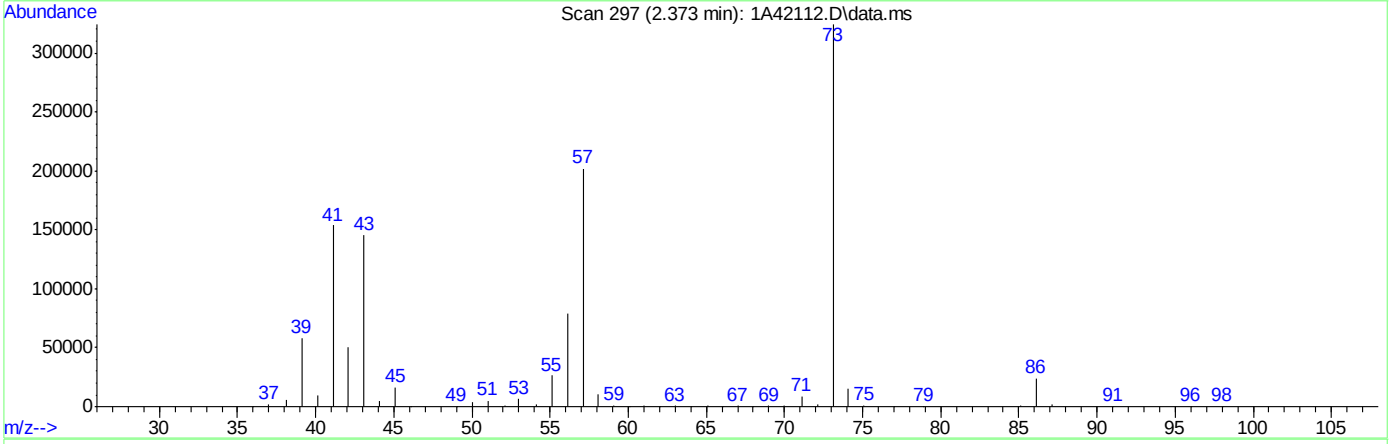
Ion	Exp%	Act%
56.10	100	100
57.00	257.60	232.89#
43.00	191.30	168.08#
41.00	225.50	184.92#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42112.D
Acq On : 12 Dec 2022 3:08 pm
Operator : joannel
Sample : IC1696-7
Misc : MS52217,V1A1695,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 15:22:27 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42112.D\data.ms

(24) Acetonitrile

2.373min (-0.003) 937.76ug/L

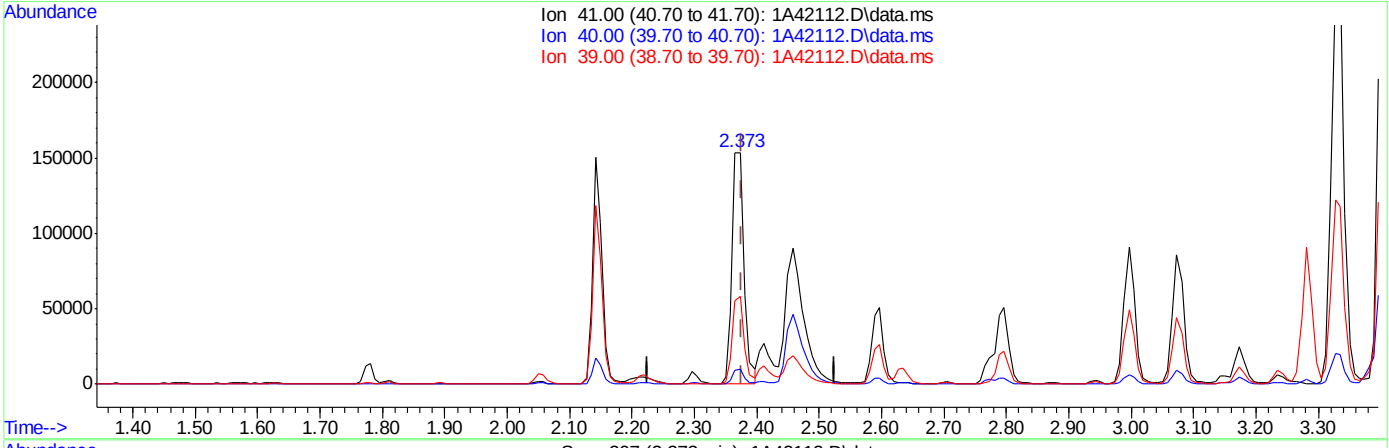
response 187904

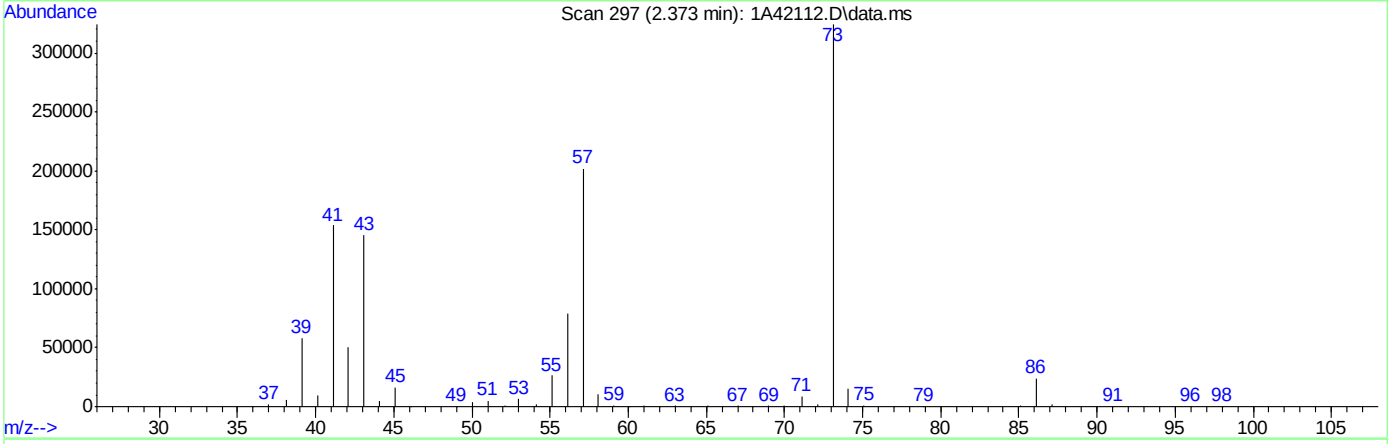
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.22
39.00	39.30	38.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42112.D
Acq On : 12 Dec 2022 3:08 pm
Operator : joannel
Sample : IC1696-7
Misc : MS52217,V1A1695,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 15:22:27 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42112.D\data.ms

(24) Acetonitrile

2.373min (-0.003) 1021.53ug/L m

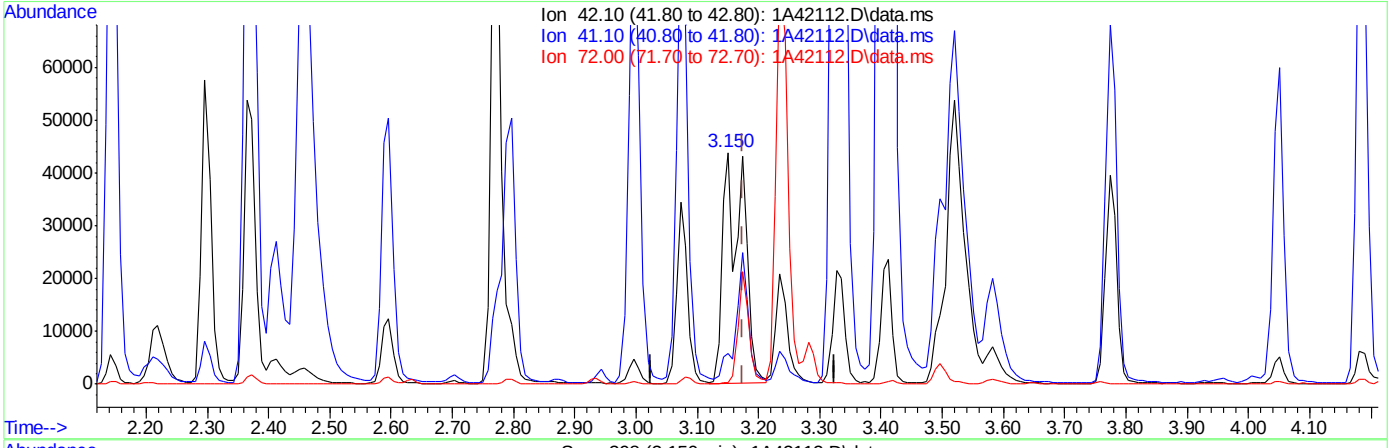
response 203412

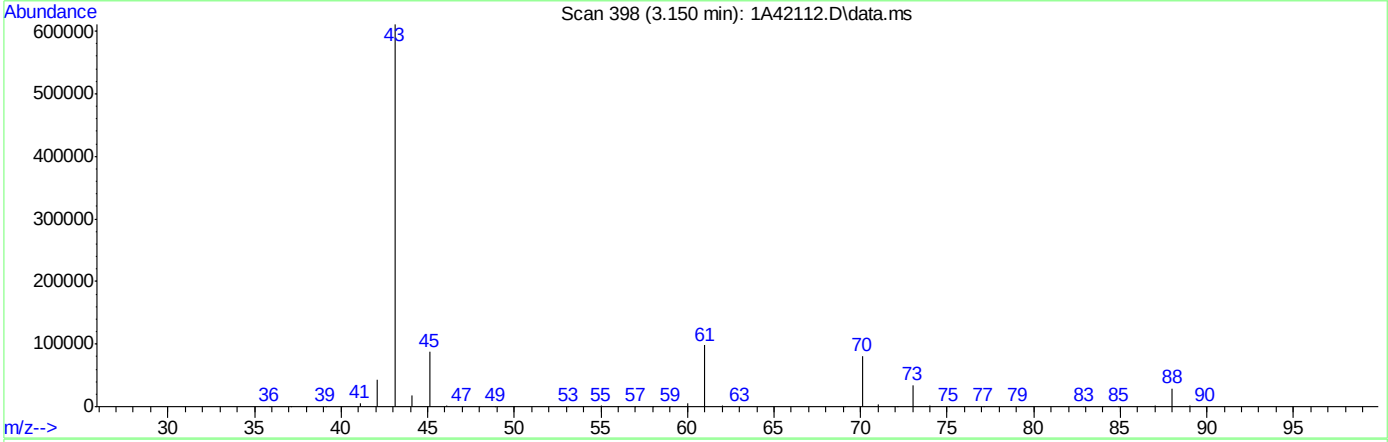
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.30
39.00	39.30	38.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42112.D
Acq On : 12 Dec 2022 3:08 pm
Operator : joannel
Sample : IC1696-7
Misc : MS52217,V1A1695,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 15:22:27 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42112.D\data.ms

(38) Tetrahydrofuran

3.150min (-0.025) 135.89ug/L

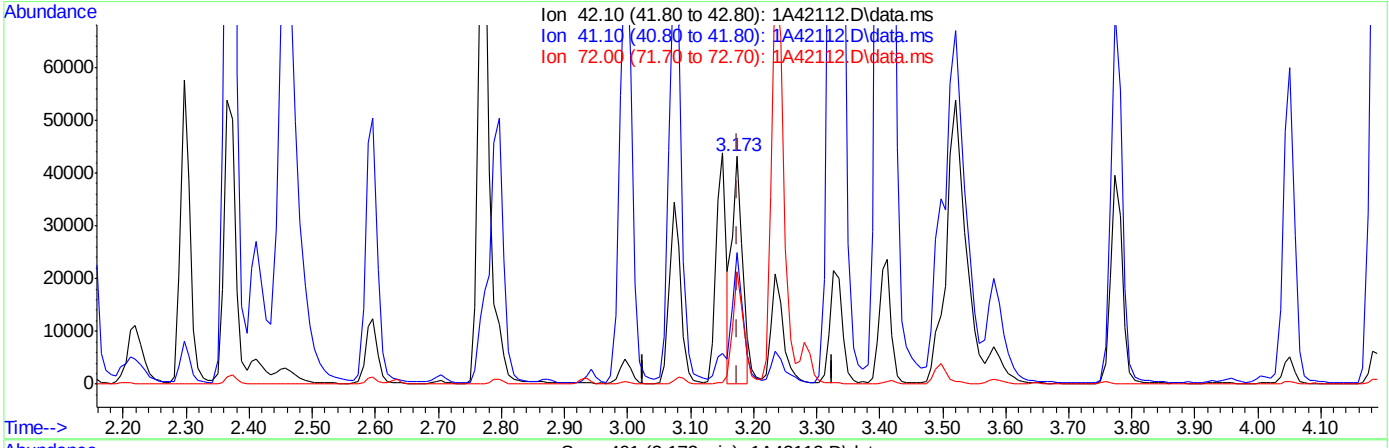
response 100688

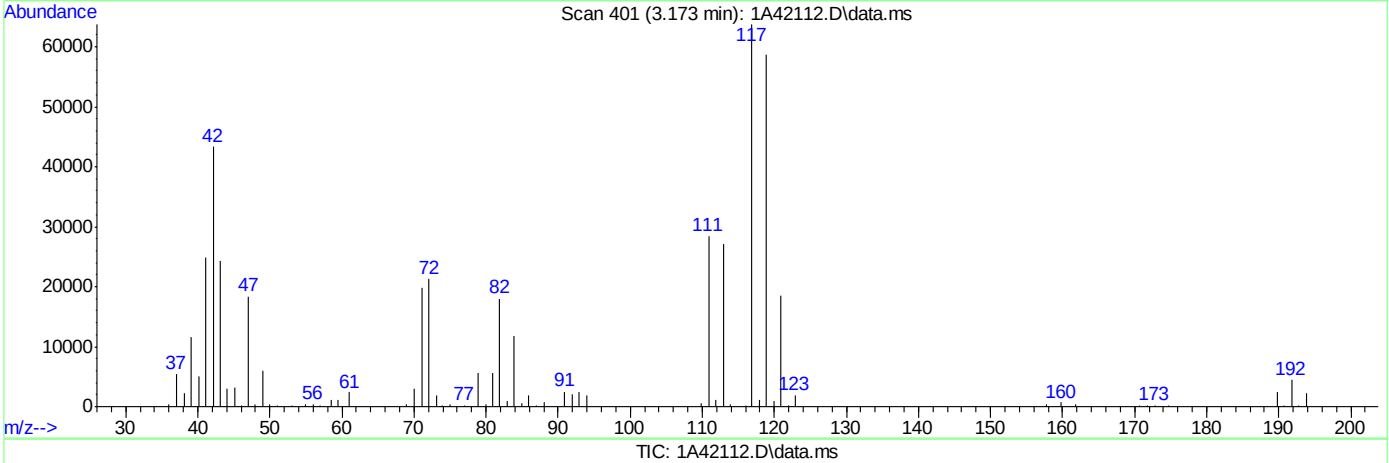
Ion	Exp%	Act%
42.10	100	100
41.10	59.00	11.61#
72.00	36.90	0.78#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42112.D
Acq On : 12 Dec 2022 3:08 pm
Operator : joannel
Sample : IC1696-7
Misc : MS52217,V1A1695,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 15:22:27 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42112.D\data.ms

(38) Tetrahydrofuran

3.173min (-0.002) 67.42ug/L m

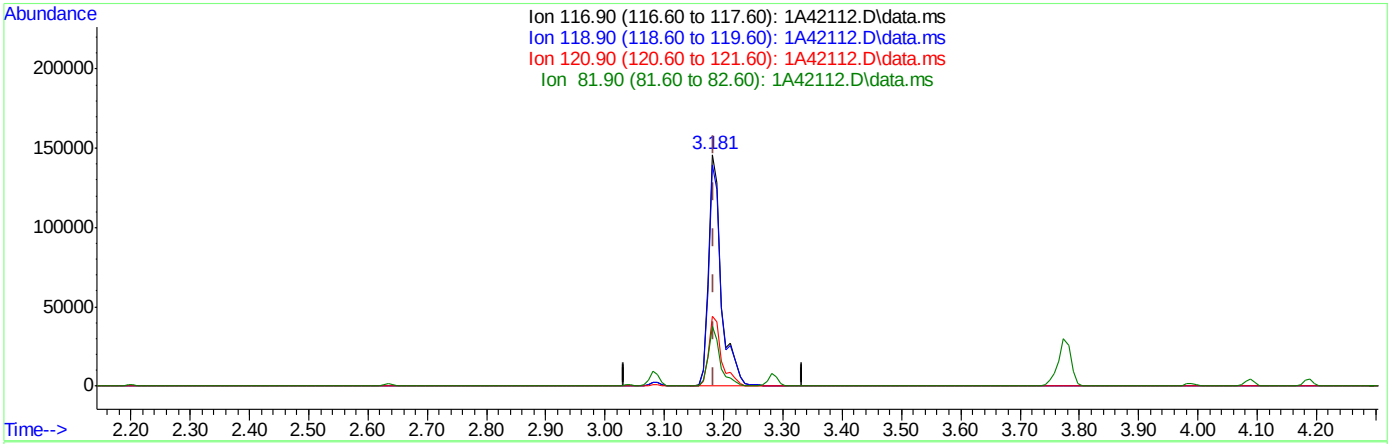
response 49316

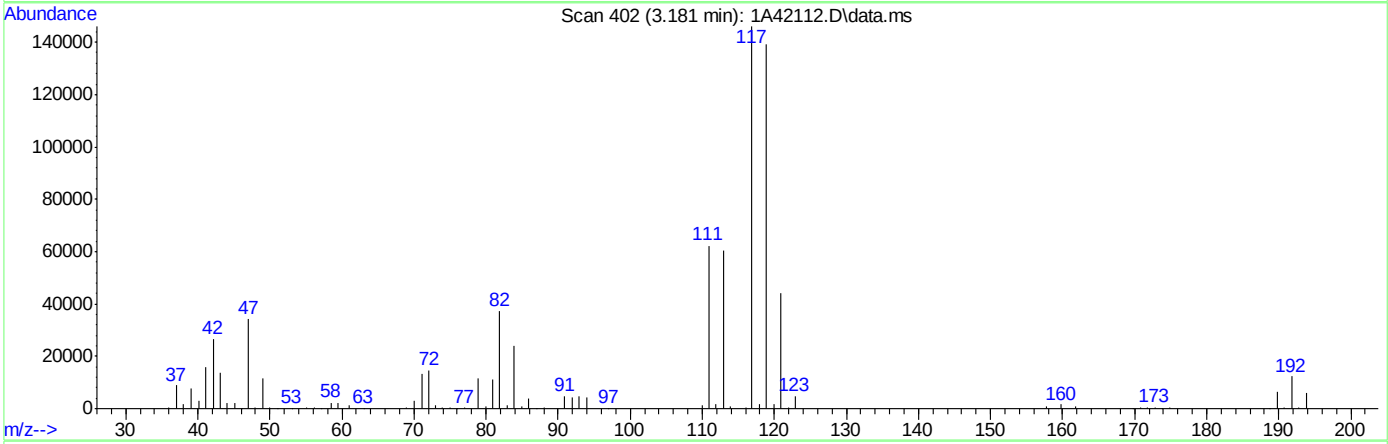
Ion	Exp%	Act%
42.10	100	100
41.10	59.00	57.52
72.00	36.90	49.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42112.D
Acq On : 12 Dec 2022 3:08 pm
Operator : joannel
Sample : IC1696-7
Misc : MS52217,V1A1695,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 15:22:27 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42112.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (-0.002) 134.33ug/L

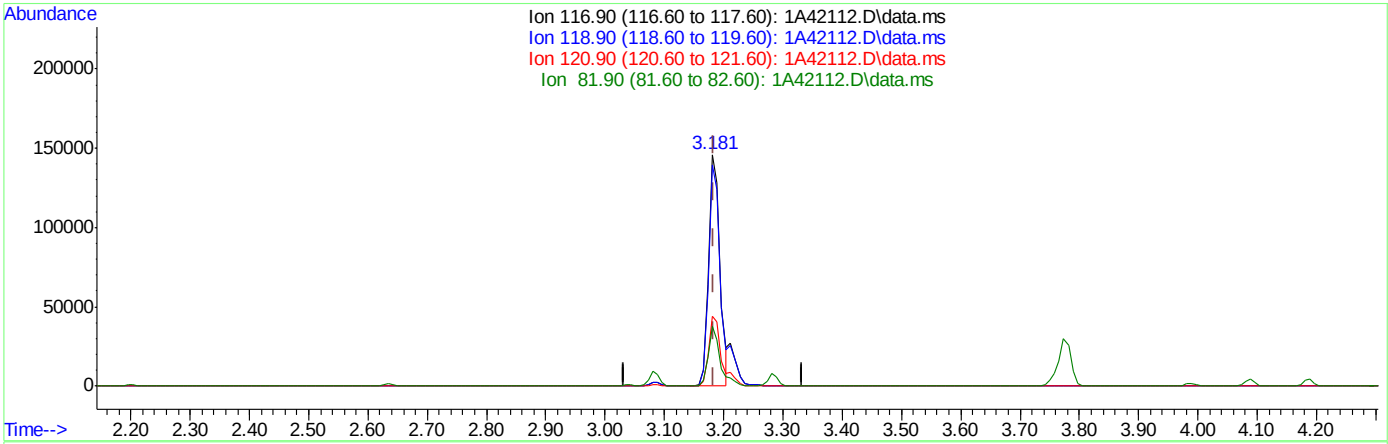
response 221657

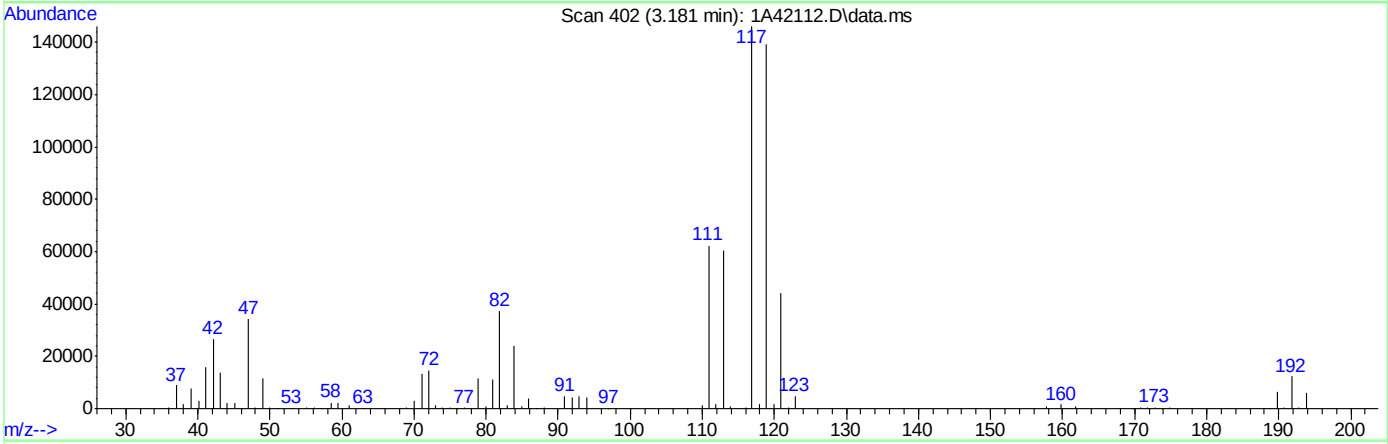
Ion	Exp%	Act%
116.90	100	100
118.90	88.40	95.27
120.90	29.50	30.29
81.90	25.50	25.60

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42112.D
Acq On : 12 Dec 2022 3:08 pm
Operator : joannel
Sample : IC1696-7
Misc : MS52217,V1A1695,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 15:22:27 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42112.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (-0.002) 120.56ug/L m

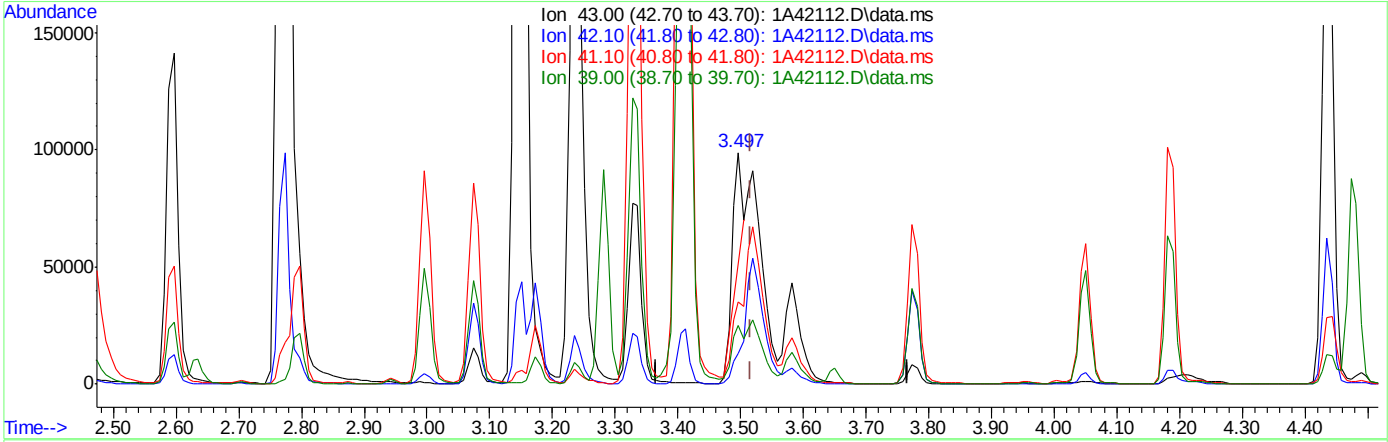
response 195053

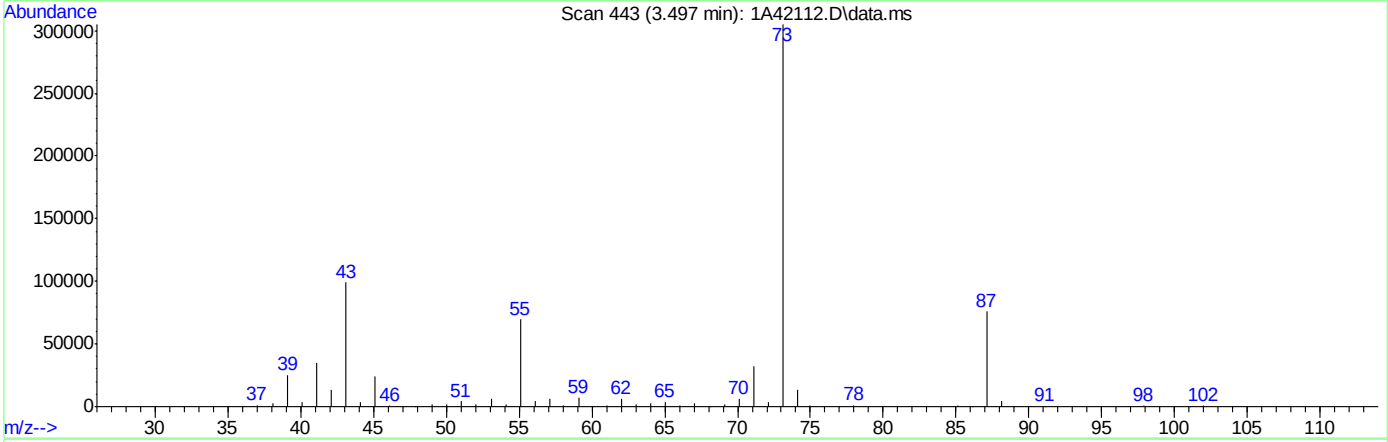
Ion	Exp%	Act%
116.90	100	100
118.90	88.40	95.27
120.90	29.50	30.29
81.90	25.50	25.60

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42112.D
Acq On : 12 Dec 2022 3:08 pm
Operator : joannel
Sample : IC1696-7
Misc : MS52217,V1A1695,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 15:22:27 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42112.D\data.ms

(51) Isobutyl Alcohol

3.497min (-0.020) 445.33ug/L

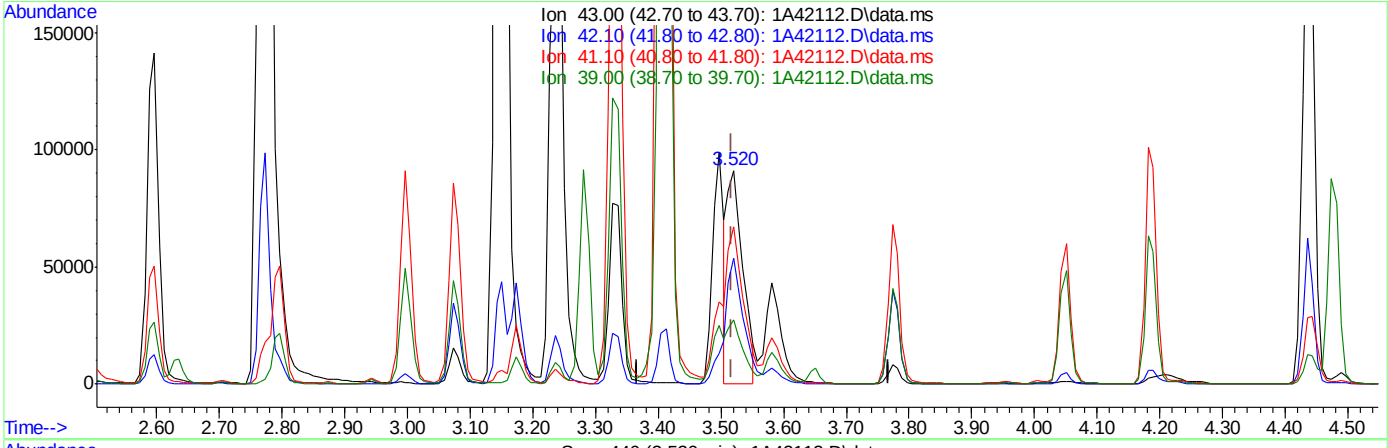
response 57713

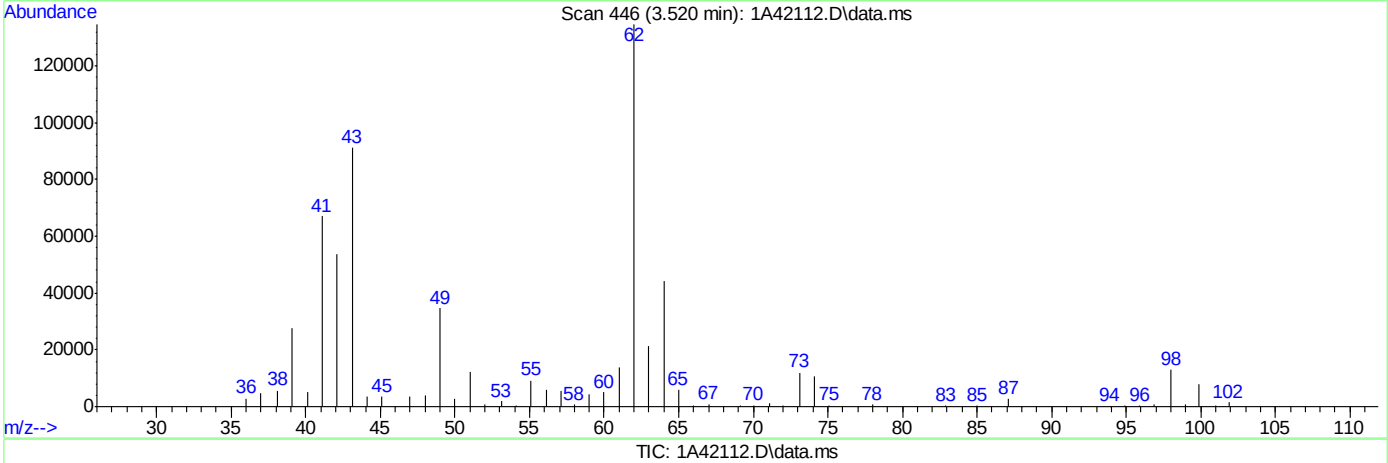
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	13.12
41.10	70.50	33.24
39.00	29.30	23.52

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42112.D
Acq On : 12 Dec 2022 3:08 pm
Operator : joannel
Sample : IC1696-7
Misc : MS52217,V1A1695,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 15:22:27 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42112.D\data.ms

(51) Isobutyl Alcohol

3.520min (+0.003) 1269.85ug/L m

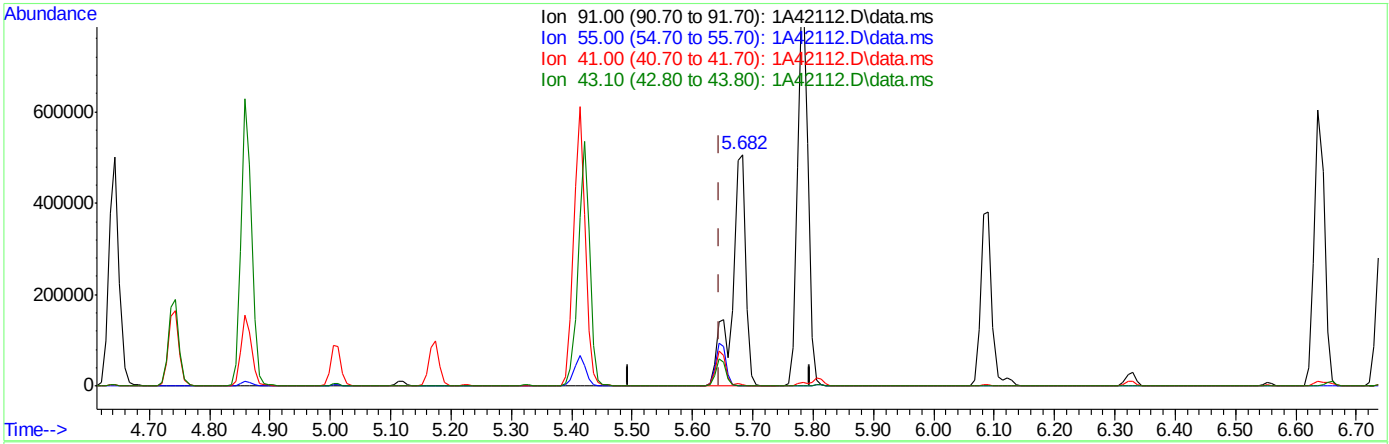
response 157623

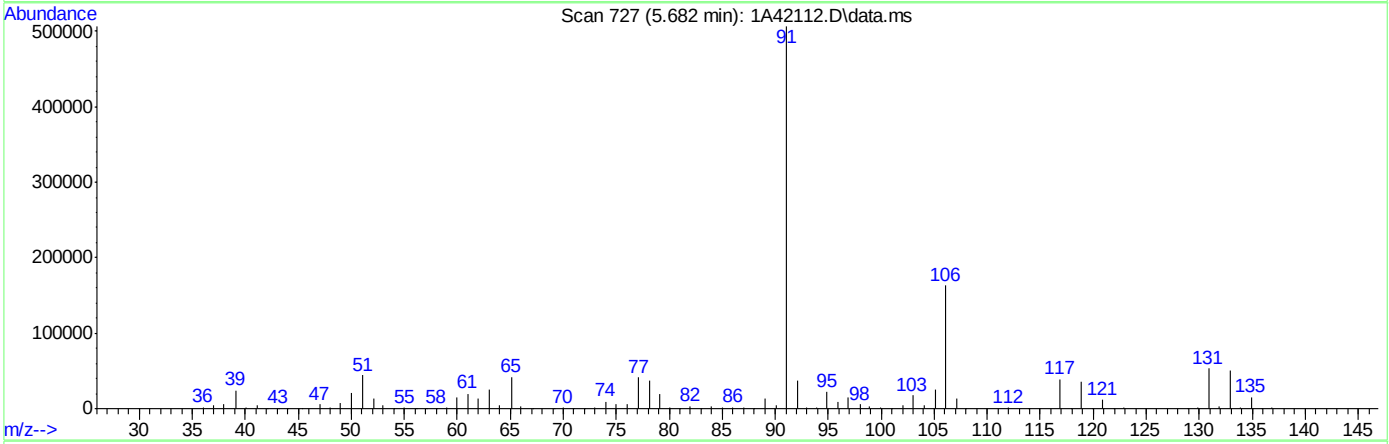
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	58.99
41.10	70.50	73.60
39.00	29.30	30.30

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42112.D
Acq On : 12 Dec 2022 3:08 pm
Operator : joannel
Sample : IC1696-7
Misc : MS52217,V1A1695,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 15:22:27 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42112.D\data.ms

(76) 1-Chlorohexane

5.682min (+0.037) 435.57ug/L

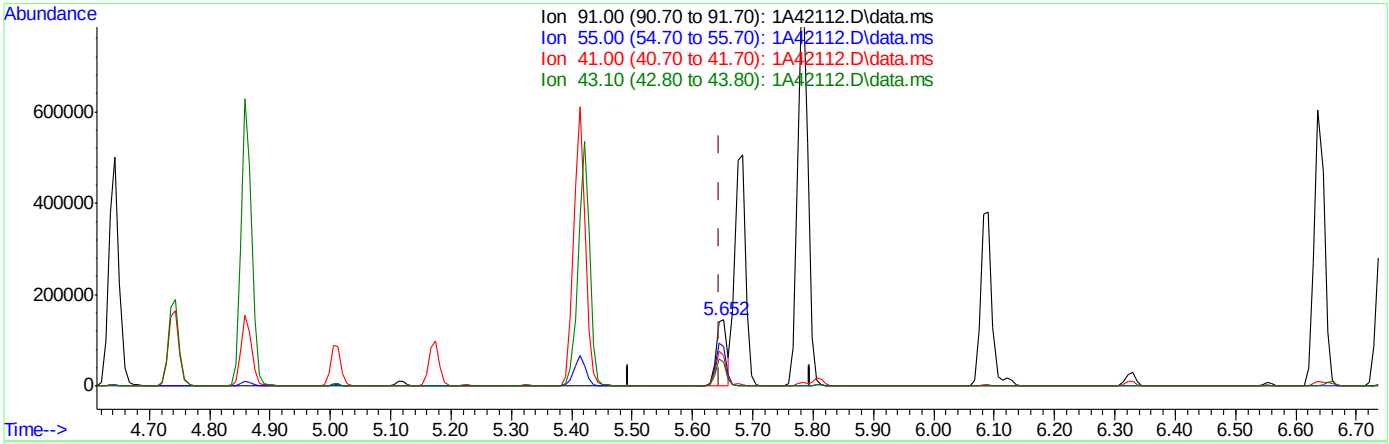
response 813637

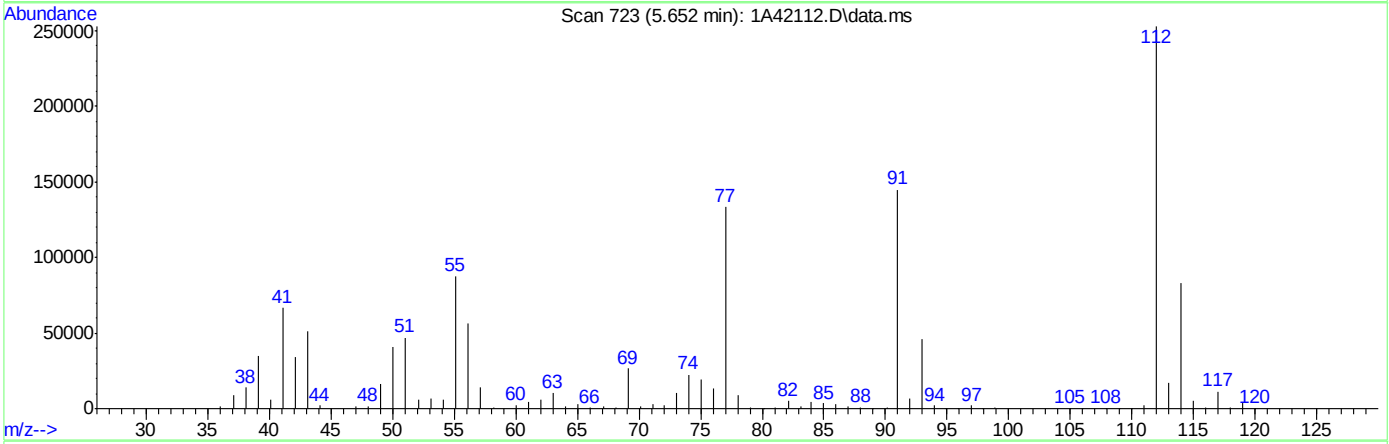
Ion	Exp%	Act%
91.00	100	100
55.00	65.30	0.13#
41.00	65.50	0.73#
43.10	48.90	0.09#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42112.D
Acq On : 12 Dec 2022 3:08 pm
Operator : joannel
Sample : IC1696-7
Misc : MS52217,V1A1695,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 15:22:27 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42112.D\data.ms

(76) 1-Chlorohexane

5.652min (+0.007) 99.08ug/L m

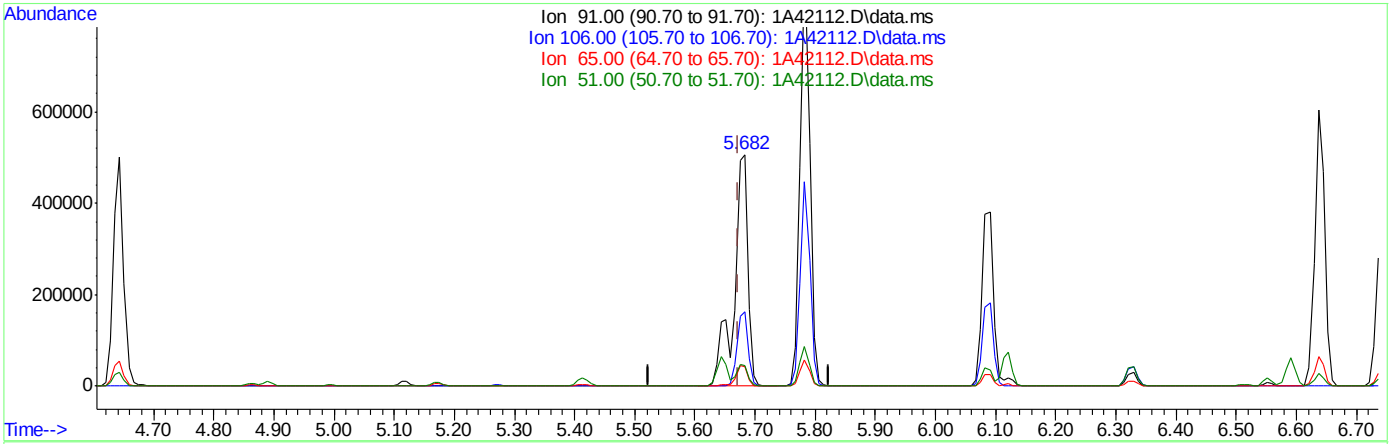
response 185086

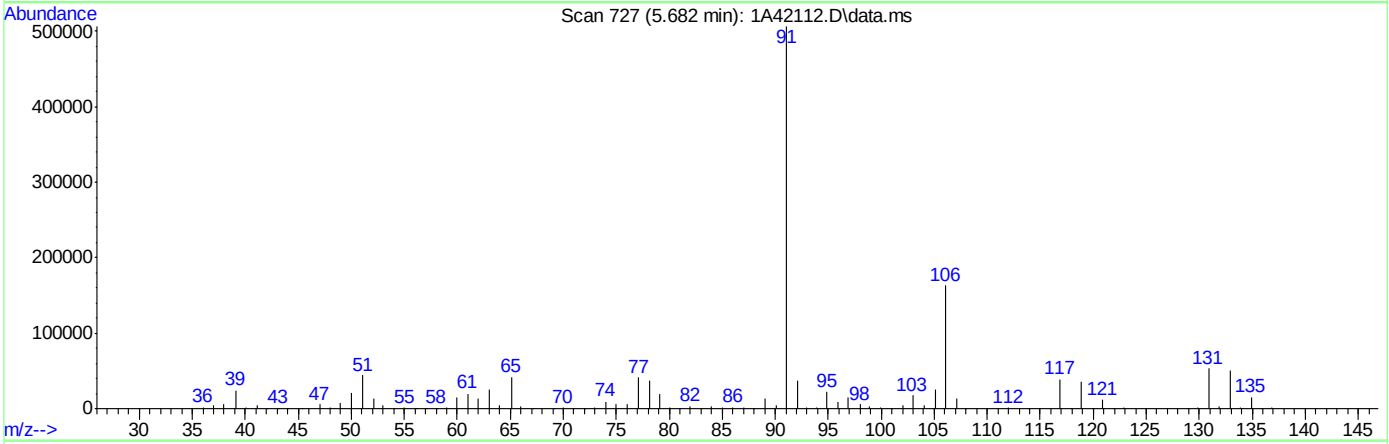
Ion	Exp%	Act%
91.00	100	100
55.00	65.30	60.58
41.00	65.50	45.94
43.10	48.90	35.57

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42112.D
Acq On : 12 Dec 2022 3:08 pm
Operator : joannel
Sample : IC1696-7
Misc : MS52217,V1A1695,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 15:22:27 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42112.D\data.ms

(77) Ethylbenzene (C)

5.682min (+0.009) 132.66ug/L

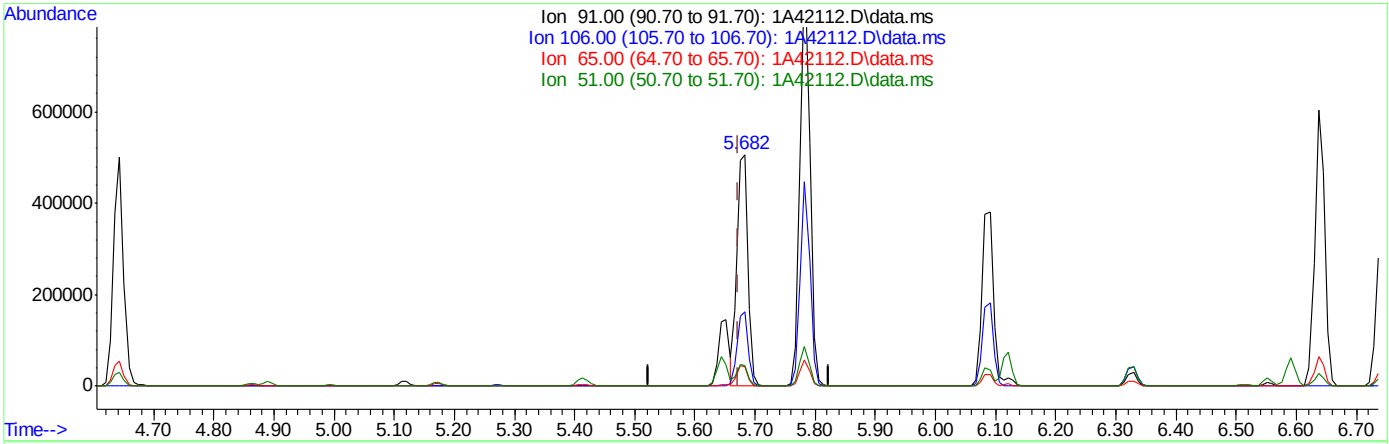
response 814343

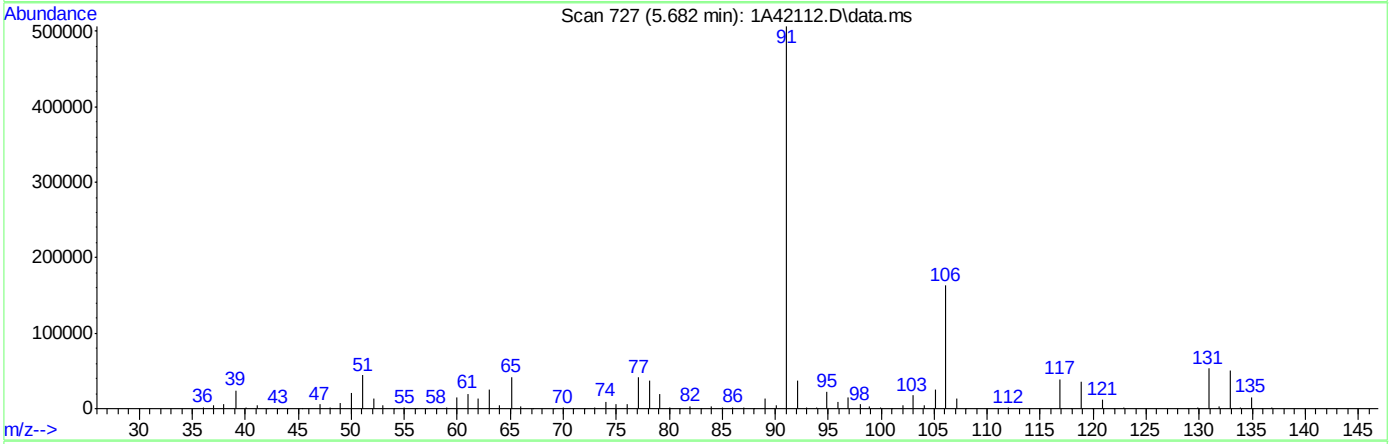
Ion	Exp%	Act%
91.00	100	100
106.00	34.20	32.16
65.00	8.60	8.34
51.00	10.30	8.73

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42112.D
Acq On : 12 Dec 2022 3:08 pm
Operator : joannel
Sample : IC1696-7
Misc : MS52217,V1A1695,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 15:22:27 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 09 14:55:09 2022
Response via : Initial Calibration





TIC: 1A42112.D\data.ms

(77) Ethylbenzene (C)

5.682min (+0.009) 101.96ug/L m

response 625888

Ion	Exp%	Act%
91.00	100	100
106.00	34.20	32.16
65.00	8.60	8.34
51.00	10.30	8.73

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 12/13/22 12:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42114.D
Acq On : 12 Dec 2022 3:56 pm
Operator : joannel
Sample : ICV1696-5
Misc : MS52217,V1A1696,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 13 09:33:28 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	222271	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	182115	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.384	152	94510	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	70846	49.67	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.34%			
49) 1,2-Dichloroethane-d4	3.474	65	74557	51.00	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.00%			
63) Toluene-d8	4.605	98	228715	49.93	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.86%			
86) 4-Bromofluorobenzene	6.514	174	81492	50.61	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.22%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.034	85	57245	36.70	ug/L	100
3) Chloromethane	1.165	50	48685	34.95	ug/L	100
4) 1,3-butadiene	1.219	39	46414	43.88	ug/L	98
5) Vinyl Chloride	1.211	62	54393	37.49	ug/L	99
6) Bromomethane	1.411	94	30438	32.80	ug/L	98
7) Chloroethane	1.480	64	12794	22.28	ug/L	95
8) Trichlorofluoromethane	1.573	101	85575	42.64	ug/L	99
9) Ethyl Ether	1.773	59	37964	36.63	ug/L	99
10) Ethanol	1.850	45	15128	724.96	ug/L	95
11) 1,2-Dichlorotrifluoroe...	1.873	67	61085	37.83	ug/L	98
12) 1,1-Dichloroethene	1.873	61	70543	36.91	ug/L	99
13) Freon 113	1.911	101	54164	40.28	ug/L	99
14) Carbon Disulfide	1.896	76	143814	37.85	ug/L	100
15) Iodomethane	1.958	142	60688	41.42	ug/L	99
16) Acrolein	2.050	56	46312	154.93	ug/L	98
17) Allyl chloride	2.142	41	64928	37.73	ug/L	100
18) Methylene Chloride	2.196	49	57993	34.83	ug/L	99
19) Acetone	2.212	43	77994	172.84	ug/L	99
20) Methyl acetate	2.296	43	220312	205.44	ug/L	99
21) trans-1,2-Dichloroethene	2.296	61	68990	36.40	ug/L	99
22) Hexane	2.366	56	46323	42.65	ug/L	95
23) Methyl Tert Butyl Ether	2.373	73	152755	38.75	ug/L	95
24) Acetonitrile	2.366	41	82871m	393.34	ug/L	
25) Tert Butyl Alcohol	2.404	59	99817	419.41	ug/L	98
26) Di-isopropyl ether	2.589	45	146858	40.24	ug/L	99
27) Chloroprene	2.627	53	187972	41.87	ug/L	99
28) 1,1-Dichloroethane	2.635	63	92629	38.63	ug/L	99
29) Acrylonitrile	2.635	52	113270	208.18	ug/L	95
30) ETBE	2.789	59	155329	39.54	ug/L	100
31) Vinyl acetate	2.766	43	582192	224.50	ug/L	99
32) cis-1,2-Dichloroethene	2.935	96	57379	37.95	ug/L	92
33) 2,2-Dichloropropane	2.997	77	78113	35.83	ug/L	99
34) Bromochloromethane	3.035	128	28284	39.70	ug/L	99
35) Cyclohexane	3.074	56	87820	41.33	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42114.D
Acq On : 12 Dec 2022 3:56 pm
Operator : joannel
Sample : ICV1696-5
Misc : MS52217,V1A1696,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 13 09:33:28 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Chloroform	3.081	83	99241	37.88	ug/L	98
37) Ethyl acetate	3.143	43	310392	215.10	ug/L	100
38) Tetrahydrofuran	3.174	42	20172	40.53	ug/L	99
40) Carbon Tetrachloride	3.181	117	75092m	38.58	ug/L	
41) 1,1,1-Trichloroethane	3.212	97	84028	38.32	ug/L	100
42) 2-Butanone	3.235	43	140454	171.59	ug/L	98
43) 1,1-Dichloropropene	3.281	75	72136	38.12	ug/L	100
44) tert-Butyl formate	3.328	59	165055	141.52	ug/L	98
45) Propionitrile	3.381	54	87650	369.25	ug/L	99
46) Methacrylonitrile	3.405	41	335759	386.27	ug/L	100
47) Benzene	3.420	78	207752	37.85	ug/L	99
48) TAME	3.497	73	151847	40.13	ug/L	100
50) 1,2-Dichloroethane	3.512	62	72217	37.73	ug/L	99
51) Isobutyl Alcohol	3.512	43	49923m	719.00	ug/L	
52) Tert Amyl Alcohol	3.574	59	80653	415.14	ug/L	98
53) Trichloroethene	3.759	95	59398	38.36	ug/L	98
54) Methylcyclohexane	3.774	83	99687	43.55	ug/L	99
55) Dibromomethane	3.989	93	35541	37.53	ug/L	99
56) 1,2-Dichloropropane	4.051	63	50811	36.65	ug/L	98
57) Bromodichloromethane	4.090	83	71926	39.15	ug/L	98
58) Methyl methacrylate	4.182	41	51580	40.85	ug/L	99
59) 1,4-Dioxane	4.205	88	16890	871.43	ug/L	96
60) 2-Chloroethyl vinyl ether	4.436	63	184696	196.49	ug/L	98
61) cis-1,3-Dichloropropene	4.474	75	86508	39.02	ug/L	99
64) Toluene	4.644	91	227277	37.15	ug/L	100
65) 2-Nitropropane	4.736	41	80092	197.15	ug/L	98
66) 4-Methyl-2-pentanone	4.859	43	273935	161.37	ug/L	100
67) trans-1,3-Dichloropropene	4.890	75	80228	40.80	ug/L	98
68) Tetrachloroethene	4.905	166	66876	39.77	ug/L	96
69) Ethyl methacrylate	5.005	69	65943	35.95	ug/L	97
70) 1,1,2-Trichloroethane	4.990	83	42448	38.86	ug/L	98
71) Dibromochloromethane	5.113	129	55434	38.10	ug/L	99
72) 1,3-Dichloropropane	5.175	76	79512	36.50	ug/L	98
73) 1,2-Dibromoethane	5.275	107	55093	38.71	ug/L	100
74) 3,3-Dimethyl-1-Butanol	5.406	57	387906	1779.25	ug/L	99
75) 2-hexanone	5.421	43	259017	162.51	ug/L	98
76) 1-Chlorohexane	5.644	91	79378m	39.83	ug/L	
77) Ethylbenzene	5.675	91	244544m	37.51	ug/L	
78) Chlorobenzene	5.644	112	149676	38.86	ug/L	99
79) 1,1,1,2-Tetrachloroethane	5.690	131	55036	40.07	ug/L	98
80) m,p-Xylene	5.783	91	390563	76.10	ug/L	99
81) o-Xylene	6.083	91	204933	38.65	ug/L	99
82) Styrene	6.121	104	158683	38.80	ug/L	99
83) Bromoform	6.121	173	39483	40.34	ug/L	99
84) Isopropylbenzene	6.329	105	244475	39.12	ug/L	99
87) cis-1,4-Dichloro-2-butene	6.552	53	20897	35.82	ug/L	96
88) n-Propylbenzene	6.637	91	287065	39.01	ug/L	99
89) Bromobenzene	6.591	156	62207	37.77	ug/L	97
90) 1,1,2,2-Tetrachloroethane	6.660	83	71996	39.51	ug/L	100
91) 1,3,5-Trimethylbenzene	6.791	105	205545	38.37	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42114.D
Acq On : 12 Dec 2022 3:56 pm
Operator : joannel
Sample : ICV1696-5
Misc : MS52217,V1A1696,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 13 09:33:28 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

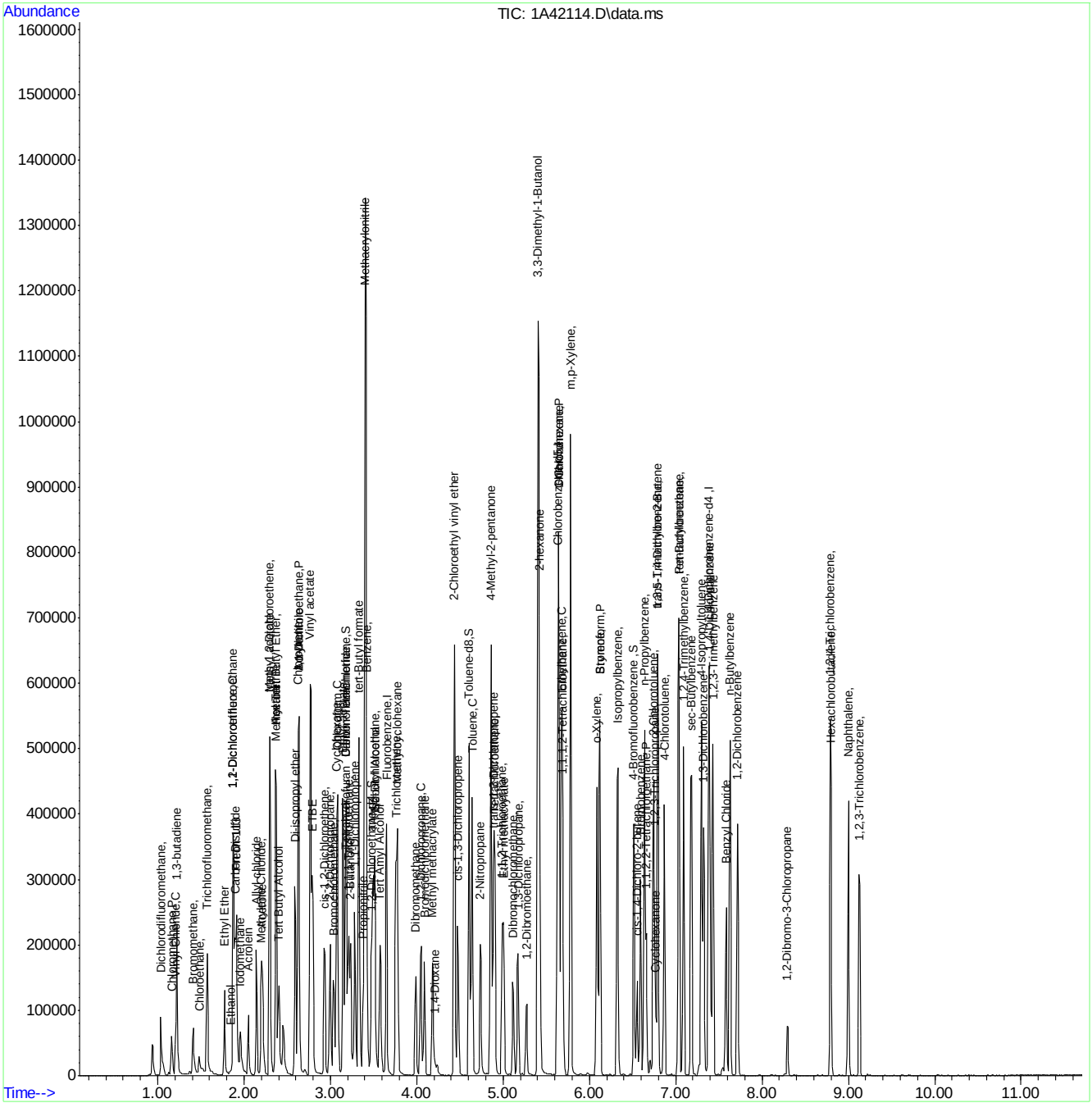
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92)	2-Chlorotoluene	6.745	91	165907	38.79	ug/L	99
93)	trans-1,4-Dichloro-2-B...	6.791	53	26363	41.23	ug/L	97
94)	1,2,3-Trichloropropane	6.752	110	20615	37.45	ug/L	92
95)	Cyclohexanone	6.768	55	14115	200.63	ug/L	97
96)	4-Chlorotoluene	6.868	91	172915	38.69	ug/L	99
97)	tert-Butylbenzene	7.037	91	117359	38.72	ug/L	98
98)	1,2,4-Trimethylbenzene	7.091	105	204257	39.87	ug/L	99
99)	Pentachloroethane	7.037	167	35396	41.58	ug/L	98
100)	sec-Butylbenzene	7.183	105	259927	41.29	ug/L	99
101)	4-Isopropyltoluene	7.299	119	231291	41.66	ug/L	99
102)	1,3-Dichlorobenzene	7.322	146	117916	39.75	ug/L	96
103)	1,2,3-Trimethylbenzene	7.430	105	210196	42.62	ug/L	99
104)	1,4-Dichlorobenzene	7.391	146	117850	38.71	ug/L	96
105)	n-Butylbenzene	7.630	92	106485	38.10	ug/L	97
106)	Benzyl Chloride	7.584	126	28815	40.55	ug/L	99
107)	1,2-Dichlorobenzene	7.715	146	107923	39.08	ug/L	99
108)	1,2-Dibromo-3-Chloropr...	8.292	75	13355	37.65	ug/L	81
109)	Hexachlorobutadiene	8.800	225	40106	39.15	ug/L	96
110)	1,2,4-Trichlorobenzene	8.792	180	75268	39.32	ug/L	99
111)	Naphthalene	9.000	128	203924	38.80	ug/L	100
112)	1,2,3-Trichlorobenzene	9.131	180	69935	38.65	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42114.D
Acq On : 12 Dec 2022 3:56 pm
Operator : joannel
Sample : ICV1696-5
Misc : MS52217,V1A1696,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 13 09:33:28 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



Manual Integration Approval Summary

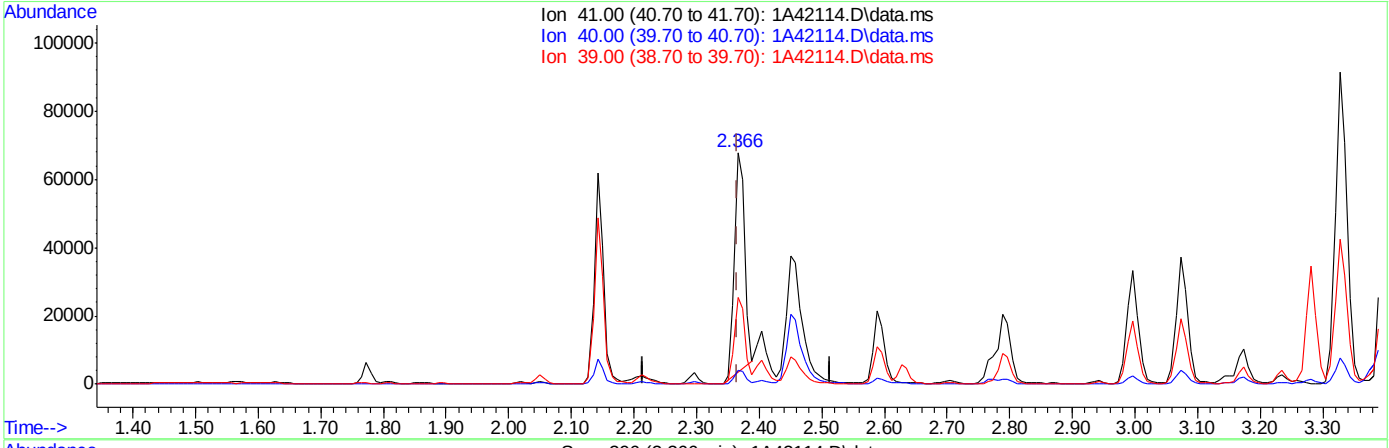
Sample Number: V1A1696-ICV1696 **Method:** SW846 8260D
Lab FileID: 1A42114.D **Analyst approved:** 12/13/22 09:47 Jo-Ann Lugo De Jesus
Injection Time: 12/12/22 15:56 **Supervisor approved:** 12/13/22 12:21 Neil Christiana

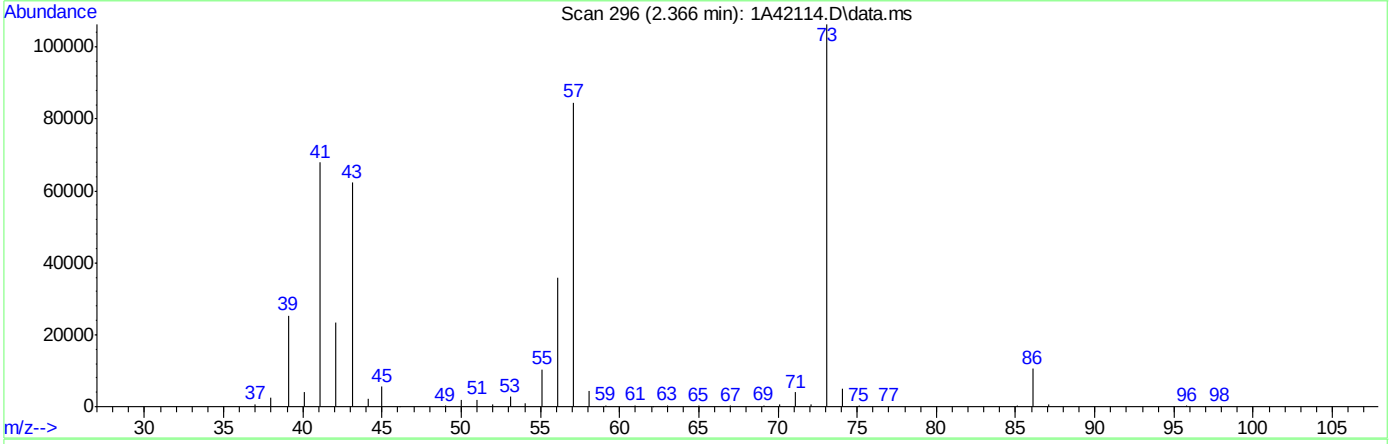
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.37	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.18	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration
Ethylbenzene	100-41-4		5.67	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42114.D
Acq On : 12 Dec 2022 3:56 pm
Operator : joannel
Sample : ICV1696-5
Misc : MS52217,V1A1696,,,,,
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Quant Time: Dec 13 09:29:43 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42114.D\data.ms

(24) Acetonitrile

2.366min (+0.001) 349.81ug/L

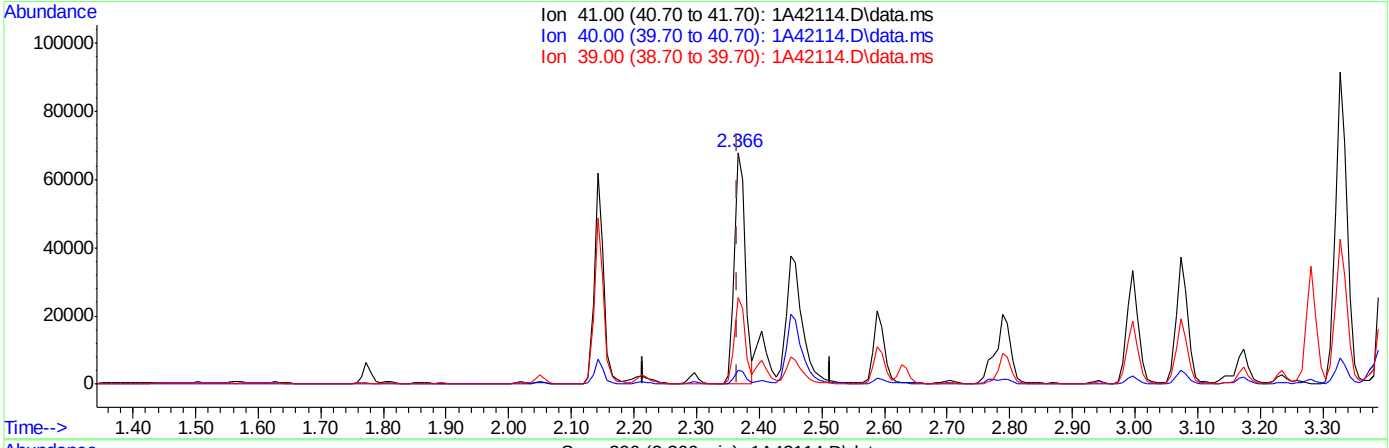
response 73698

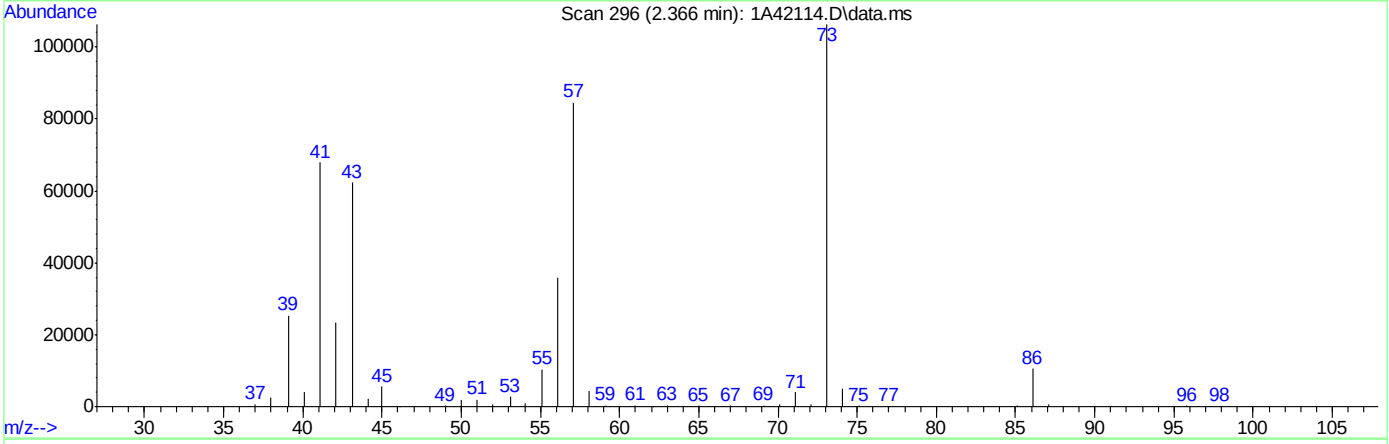
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	5.81
39.00	37.60	37.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42114.D
Acq On : 12 Dec 2022 3:56 pm
Operator : joannel
Sample : ICV1696-5
Misc : MS52217,V1A1696,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 13 09:29:43 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42114.D\data.ms

(24) Acetonitrile

2.366min (+0.001) 393.34ug/L m

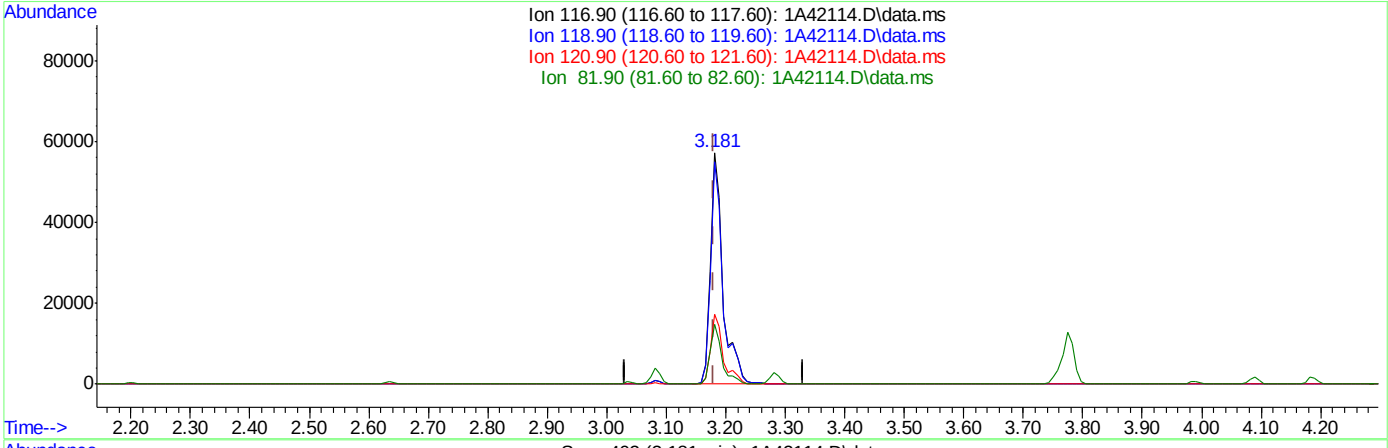
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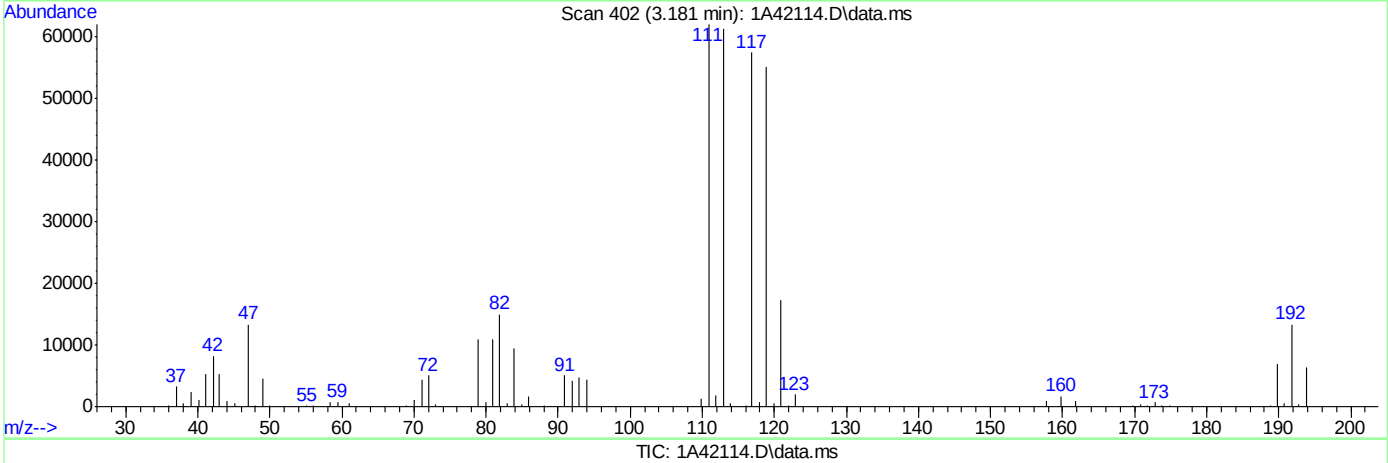
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.01
39.00	37.60	37.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42114.D
Acq On : 12 Dec 2022 3:56 pm
Operator : joannel
Sample : ICV1696-5
Misc : MS52217,V1A1696,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 13 09:29:43 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42114.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 43.58ug/L

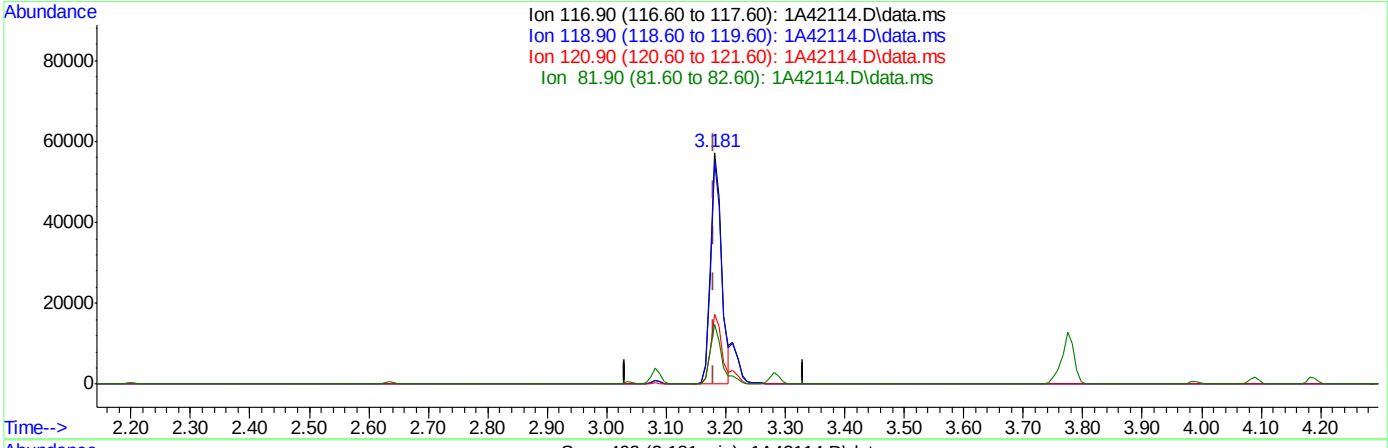
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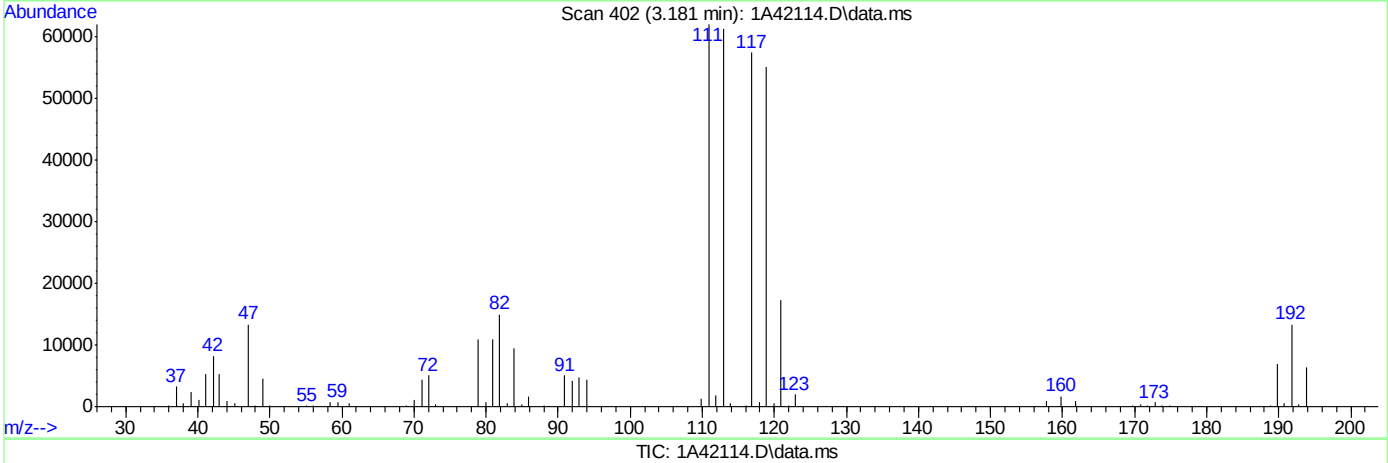
Ion	Exp%	Act%
116.90	100	100
118.90	95.70	96.08
120.90	30.30	30.15
81.90	26.50	26.03

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42114.D
Acq On : 12 Dec 2022 3:56 pm
Operator : joannel
Sample : ICV1696-5
Misc : MS52217,V1A1696,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 13 09:29:43 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42114.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 38.58ug/L m

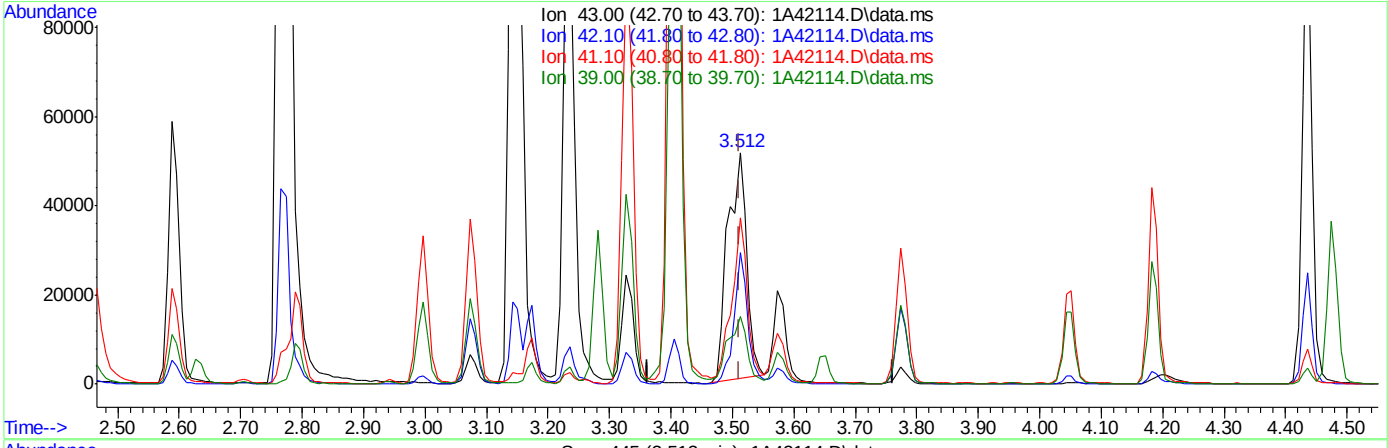
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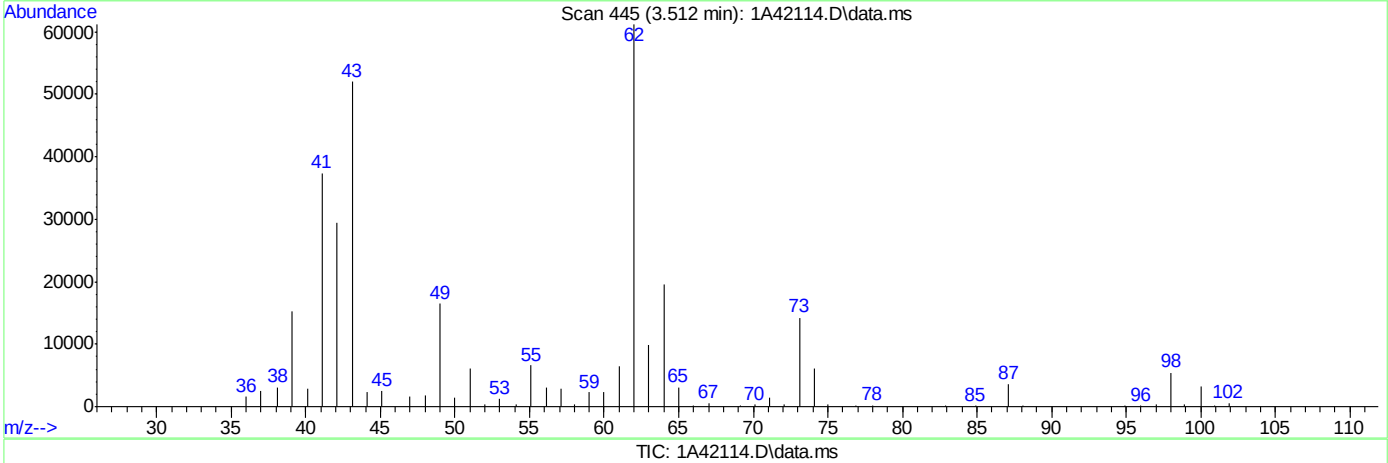
Ion	Exp%	Act%
116.90	100	100
118.90	95.70	96.08
120.90	30.30	30.15
81.90	26.50	26.03

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42114.D
Acq On : 12 Dec 2022 3:56 pm
Operator : joannel
Sample : ICV1696-5
Misc : MS52217,V1A1696,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 13 09:29:43 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42114.D\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 1489.33ug/L

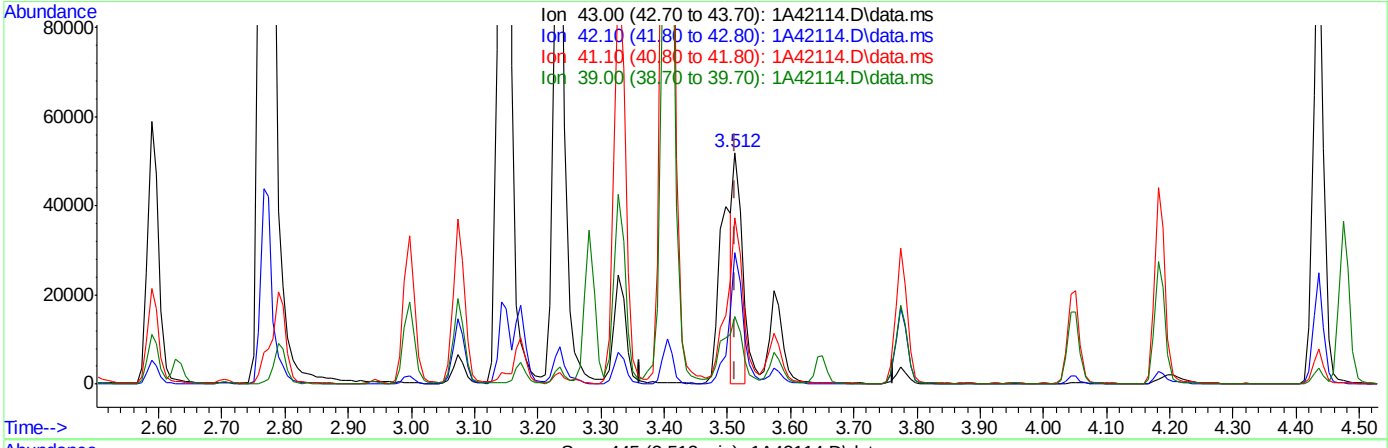
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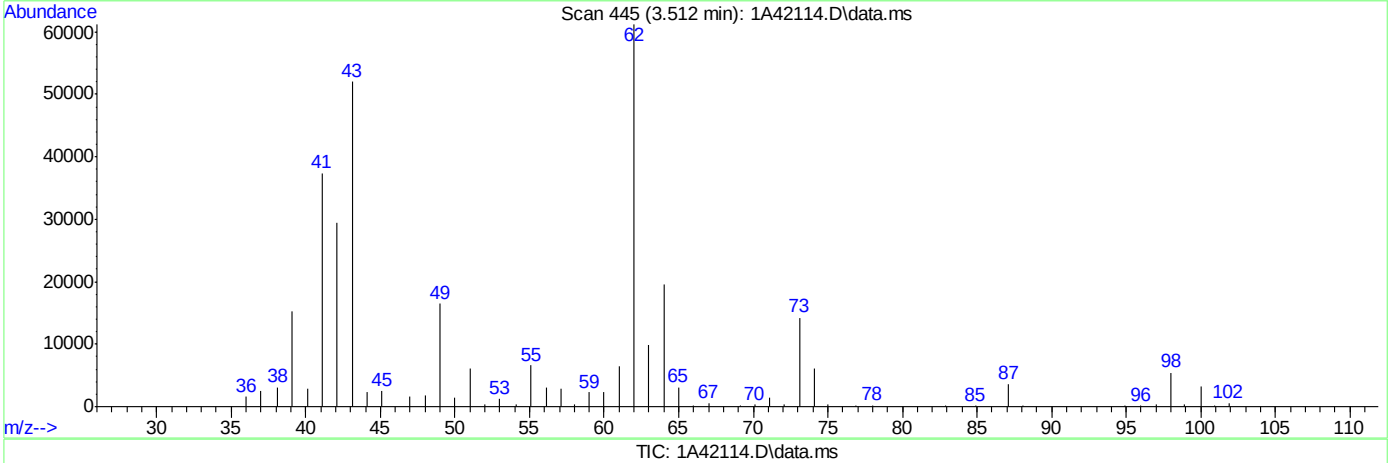
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	56.76
41.10	71.70	69.61
39.00	29.20	27.48

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42114.D
Acq On : 12 Dec 2022 3:56 pm
Operator : joannel
Sample : ICV1696-5
Misc : MS52217,V1A1696,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 13 09:29:43 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42114.D\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 719.00ug/L m

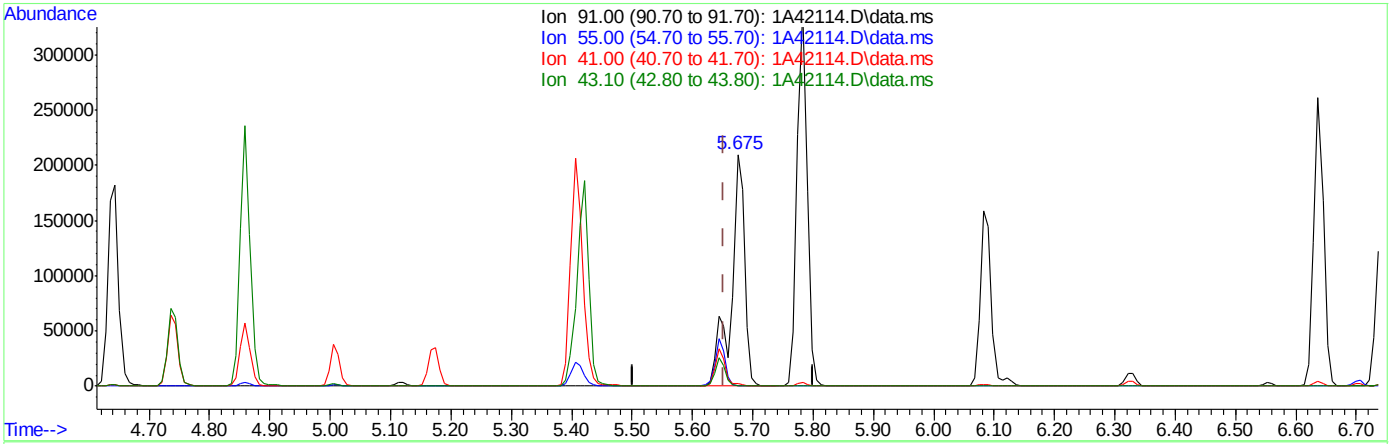
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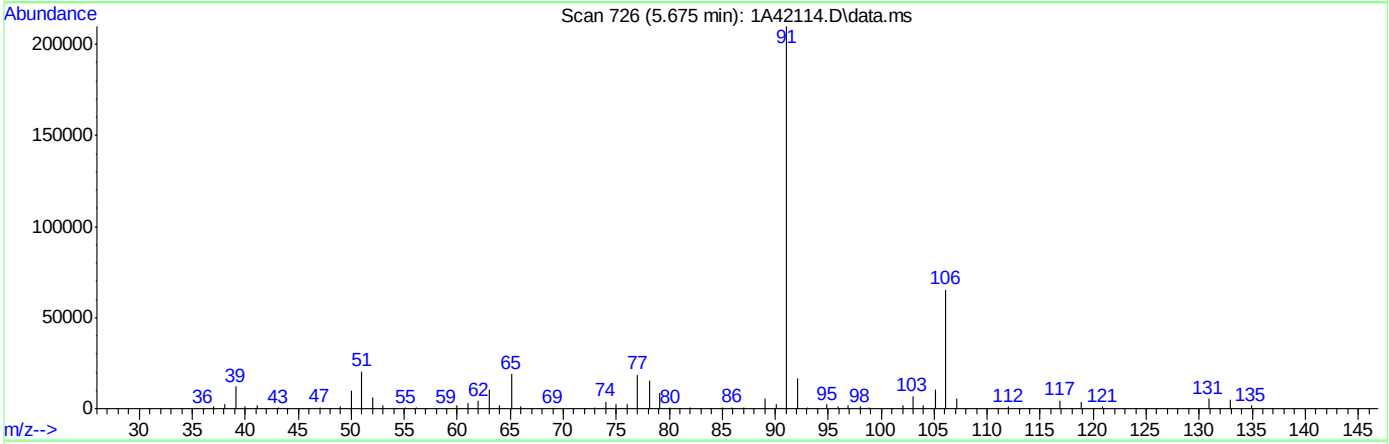
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	56.79
41.10	71.70	71.87
39.00	29.20	29.20

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42114.D
Acq On : 12 Dec 2022 3:56 pm
Operator : joannel
Sample : ICV1696-5
Misc : MS52217,V1A1696,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 13 09:29:43 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42114.D\data.ms

(76) 1-Chlorohexane

5.675min (+0.023) 163.13ug/L

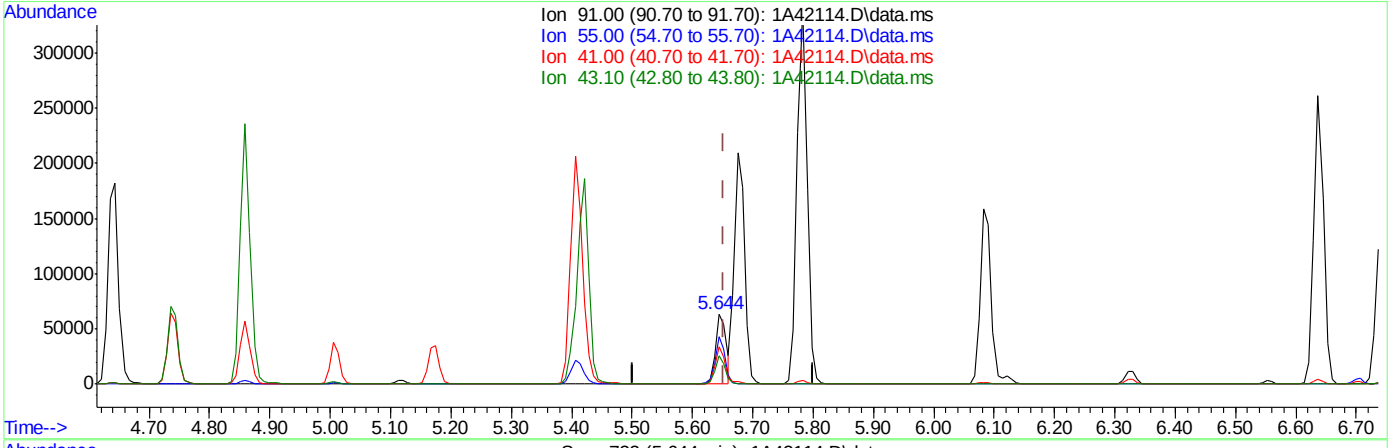
response 325118

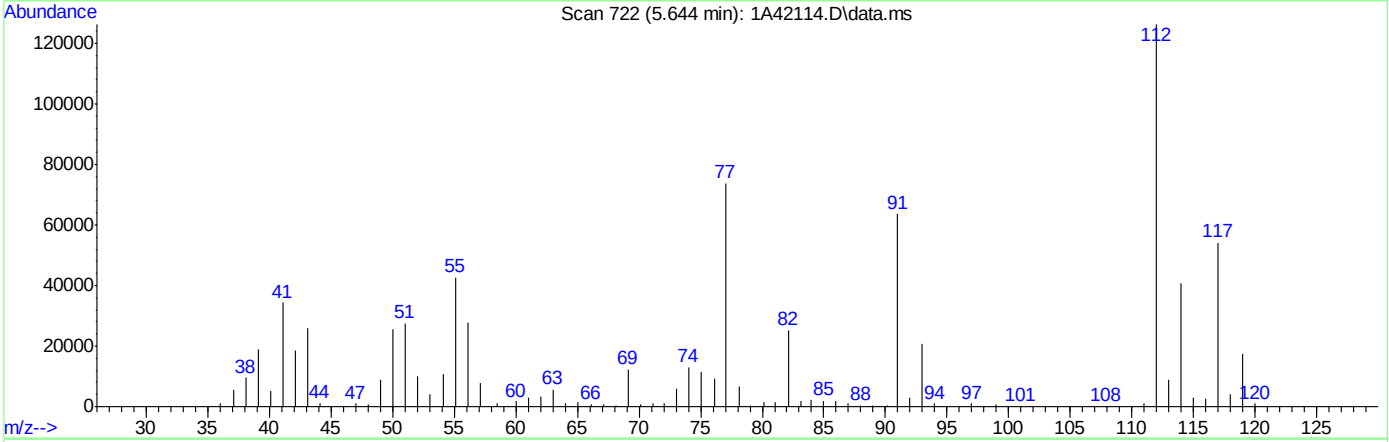
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	0.18#
41.00	48.10	0.87#
43.10	37.30	0.15#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42114.D
Acq On : 12 Dec 2022 3:56 pm
Operator : joannel
Sample : ICV1696-5
Misc : MS52217,V1A1696,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 13 09:29:43 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42114.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.008) 39.83ug/L m

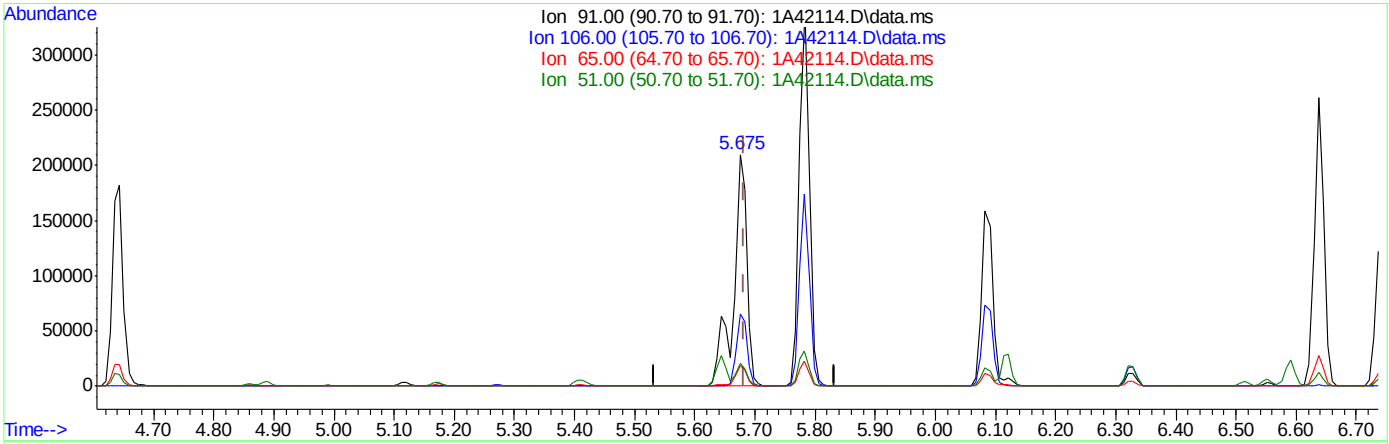
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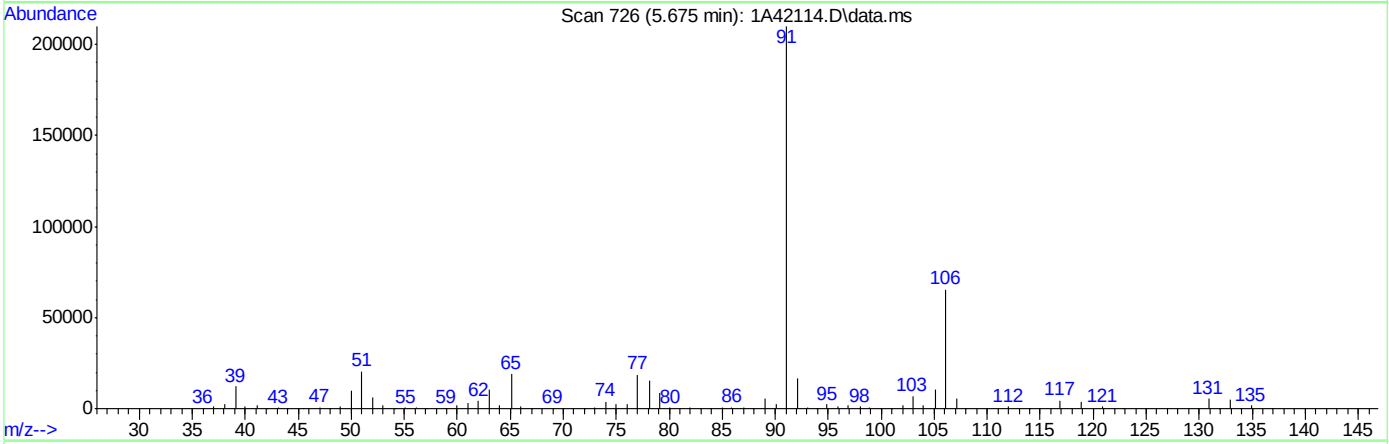
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	67.05
41.00	48.10	53.93
43.10	37.30	40.61

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42114.D
Acq On : 12 Dec 2022 3:56 pm
Operator : joannel
Sample : ICV1696-5
Misc : MS52217,V1A1696,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 13 09:29:43 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42114.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.008) 49.93ug/L

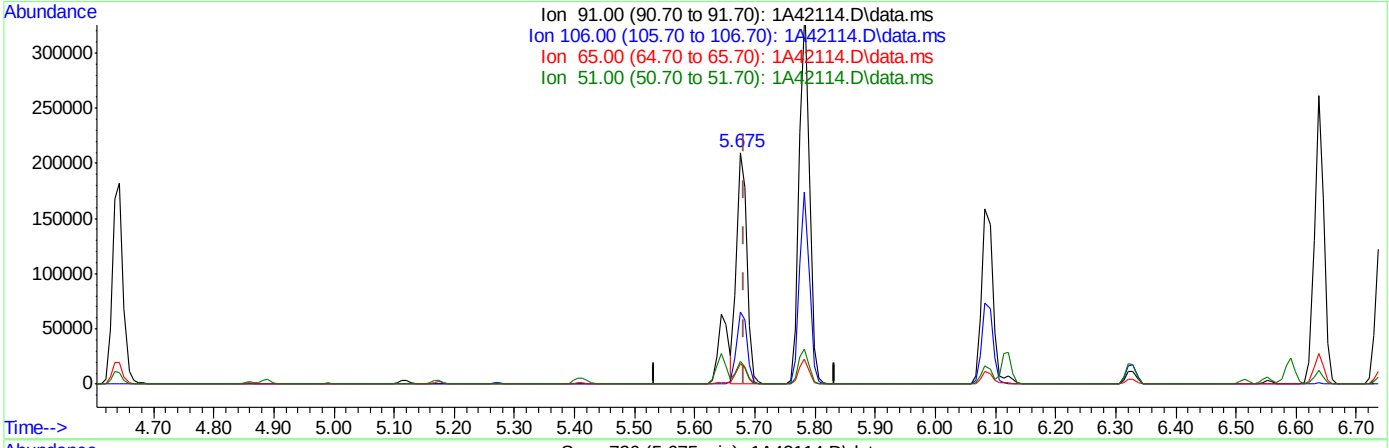
response 325495

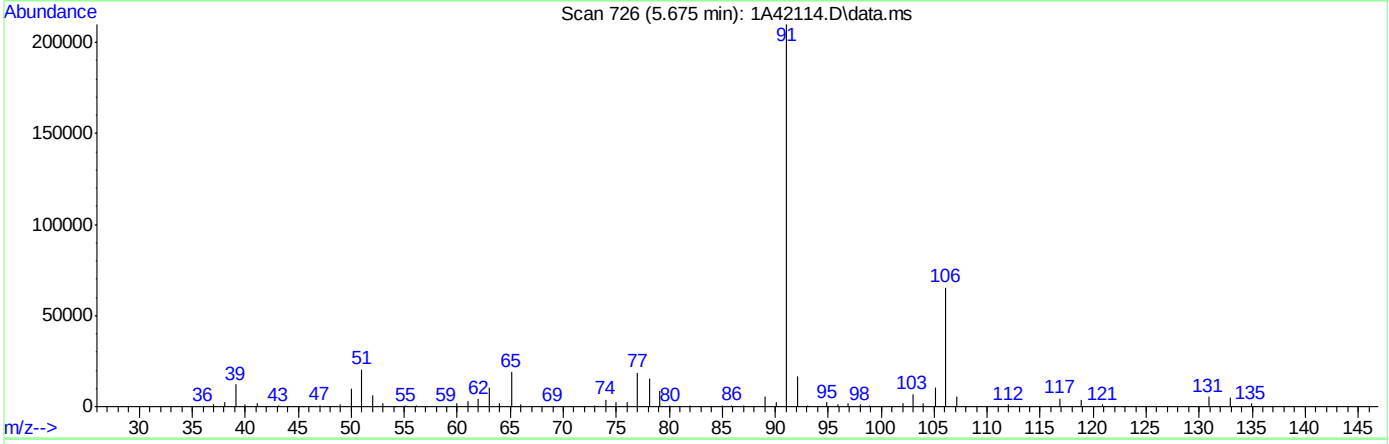
Ion	Exp%	Act%
91.00	100	100
106.00	32.70	31.16
65.00	8.50	9.01
51.00	9.00	9.77

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-12-2022\
Data File : 1A42114.D
Acq On : 12 Dec 2022 3:56 pm
Operator : joannel
Sample : ICV1696-5
Misc : MS52217,V1A1696,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 13 09:29:43 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42114.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.008) 37.51ug/L m

response 244544

Ion	Exp%	Act%
91.00	100	100
106.00	32.70	31.16
65.00	8.50	9.01
51.00	9.00	9.77

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/15/22 02:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42120.D
Acq On : 13 Dec 2022 9:27 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1697,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 09:43:15 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.651	96	223041	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.636	117	181378	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.384	152	95040	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.181	113	70497	49.26	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.52%				
49) 1,2-Dichloroethane-d4	3.474	65	72880	49.68	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.36%				
63) Toluene-d8	4.605	98	226799	49.72	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.44%				
86) 4-Bromofluorobenzene	6.514	174	81545	50.36	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.72%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.034	85	57299	36.61	ug/L		97
3) Chloromethane	1.165	50	47530	33.94	ug/L		99
4) 1,3-butadiene	1.219	39	39989	37.68	ug/L		96
5) Vinyl Chloride	1.211	62	51357	35.27	ug/L		98
6) Bromomethane	1.411	94	34228	37.28	ug/L		97
7) Chloroethane	1.480	64	14751	25.60	ug/L		97
8) Trichlorofluoromethane	1.573	101	78513	38.24	ug/L		100
9) Ethyl Ether	1.773	59	39944	38.41	ug/L		99
10) Ethanol	1.850	45	15452	737.93	ug/L		92
11) 1,2-Dichlorotrifluoroe...	1.873	67	61529	37.98	ug/L		97
12) 1,1-Dichloroethene	1.881	61	74286	38.73	ug/L		93
13) Freon 113	1.911	101	56472	41.85	ug/L		98
14) Carbon Disulfide	1.896	76	141805	37.20	ug/L		98
15) Iodomethane	1.958	142	65053	43.97	ug/L		99
16) Acrolein	2.050	56	58071	195.05	ug/L		98
17) Allyl chloride	2.142	41	63977	37.05	ug/L		99
18) Methylene Chloride	2.204	49	59573	35.73	ug/L		92
19) Acetone	2.212	43	81923	181.39	ug/L		99
20) Methyl acetate	2.296	43	210361	195.48	ug/L		100
21) trans-1,2-Dichloroethene	2.304	61	73593	38.70	ug/L		90
22) Hexane	2.373	56	46496	42.66	ug/L		96
23) Methyl Tert Butyl Ether	2.373	73	155938	39.42	ug/L		98
24) Acetonitrile	2.373	41	83212m	393.60	ug/L		
25) Tert Butyl Alcohol	2.404	59	99390	416.17	ug/L		98
26) Di-isopropyl ether	2.589	45	144905	39.57	ug/L		99
27) Chloroprene	2.635	53	170079	37.75	ug/L		99
28) 1,1-Dichloroethane	2.635	63	93409	38.82	ug/L		99
29) Acrylonitrile	2.635	52	102586	187.89	ug/L		96
30) ETBE	2.789	59	159015	40.34	ug/L		100
31) Vinyl acetate	2.773	43	485863	186.70	ug/L		100
32) cis-1,2-Dichloroethene	2.935	96	57815	38.11	ug/L		93
33) 2,2-Dichloropropane	2.997	77	84884	38.80	ug/L		99
34) Bromochloromethane	3.043	128	28071	39.27	ug/L	#	87
35) Cyclohexane	3.074	56	83766	39.28	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42120.D
Acq On : 13 Dec 2022 9:27 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1697,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 09:43:15 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Chloroform	3.081	83	101939	38.77	ug/L	99
37) Ethyl acetate	3.143	43	281369	194.31	ug/L	99
38) Tetrahydrofuran	3.174	42	19998	40.03	ug/L	99
40) Carbon Tetrachloride	3.181	117	76726m	39.28	ug/L	
41) 1,1,1-Trichloroethane	3.212	97	86658	39.38	ug/L	99
42) 2-Butanone	3.235	43	147987	180.17	ug/L	99
43) 1,1-Dichloropropene	3.281	75	74742	39.36	ug/L	99
44) tert-Butyl formate	3.328	59	234408	200.40	ug/L	100
45) Propionitrile	3.381	54	89418	375.39	ug/L	99
46) Methacrylonitrile	3.405	41	339431	389.15	ug/L	100
47) Benzene	3.420	78	218264	39.63	ug/L	99
48) TAME	3.497	73	152911	40.27	ug/L	99
50) 1,2-Dichloroethane	3.512	62	75018	39.06	ug/L	99
51) Isobutyl Alcohol	3.512	43	51491m	738.01	ug/L	
52) Tert Amyl Alcohol	3.574	59	80640	413.64	ug/L	100
53) Trichloroethene	3.759	95	60914	39.21	ug/L	99
54) Methylcyclohexane	3.774	83	94796	41.27	ug/L	99
55) Dibromomethane	3.989	93	36899	38.83	ug/L	99
56) 1,2-Dichloropropane	4.051	63	53711	38.61	ug/L	99
57) Bromodichloromethane	4.089	83	72933	39.56	ug/L	99
58) Methyl methacrylate	4.182	41	48628	38.36	ug/L	99
59) 1,4-Dioxane	4.205	88	15686	806.52	ug/L	97
60) 2-Chloroethyl vinyl ether	4.436	63	190259	201.71	ug/L	99
61) cis-1,3-Dichloropropene	4.474	75	89208	40.10	ug/L	98
64) Toluene	4.644	91	233541	38.33	ug/L	99
65) 2-Nitropropane	4.736	41	82400	203.65	ug/L	98
66) 4-Methyl-2-pentanone	4.859	43	297542	175.99	ug/L	99
67) trans-1,3-Dichloropropene	4.890	75	77849	39.75	ug/L	100
68) Tetrachloroethene	4.905	166	67938	40.57	ug/L	97
69) Ethyl methacrylate	5.005	69	70186	38.42	ug/L	98
70) 1,1,2-Trichloroethane	4.990	83	43177	39.69	ug/L	99
71) Dibromochloromethane	5.121	129	59337	40.94	ug/L	99
72) 1,3-Dichloropropane	5.175	76	85380	39.35	ug/L	99
73) 1,2-Dibromoethane	5.275	107	56316	39.73	ug/L	99
74) 3,3-Dimethyl-1-Butanol	5.406	57	418648	1928.06	ug/L	99
75) 2-hexanone	5.421	43	282747	178.12	ug/L	99
76) 1-Chlorohexane	5.644	91	77095m	38.84	ug/L	
77) Ethylbenzene	5.675	91	253986m	39.12	ug/L	
78) Chlorobenzene	5.644	112	152588	39.77	ug/L	98
79) 1,1,1,2-Tetrachloroethane	5.690	131	56434	41.26	ug/L	99
80) m,p-Xylene	5.783	91	403611	78.96	ug/L	100
81) o-Xylene	6.083	91	204682	38.76	ug/L	99
82) Styrene	6.121	104	162225	39.83	ug/L	99
83) Bromoform	6.121	173	40904	41.96	ug/L	99
84) Isopropylbenzene	6.329	105	248071	39.85	ug/L	100
87) cis-1,4-Dichloro-2-butene	6.552	53	22759	38.79	ug/L	93
88) n-Propylbenzene	6.637	91	291580	39.40	ug/L	99
89) Bromobenzene	6.591	156	67749	40.90	ug/L	96
90) 1,1,2,2-Tetrachloroethane	6.660	83	72981	39.83	ug/L	99
91) 1,3,5-Trimethylbenzene	6.791	105	213062	39.55	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42120.D
Acq On : 13 Dec 2022 9:27 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1697,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 09:43:15 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

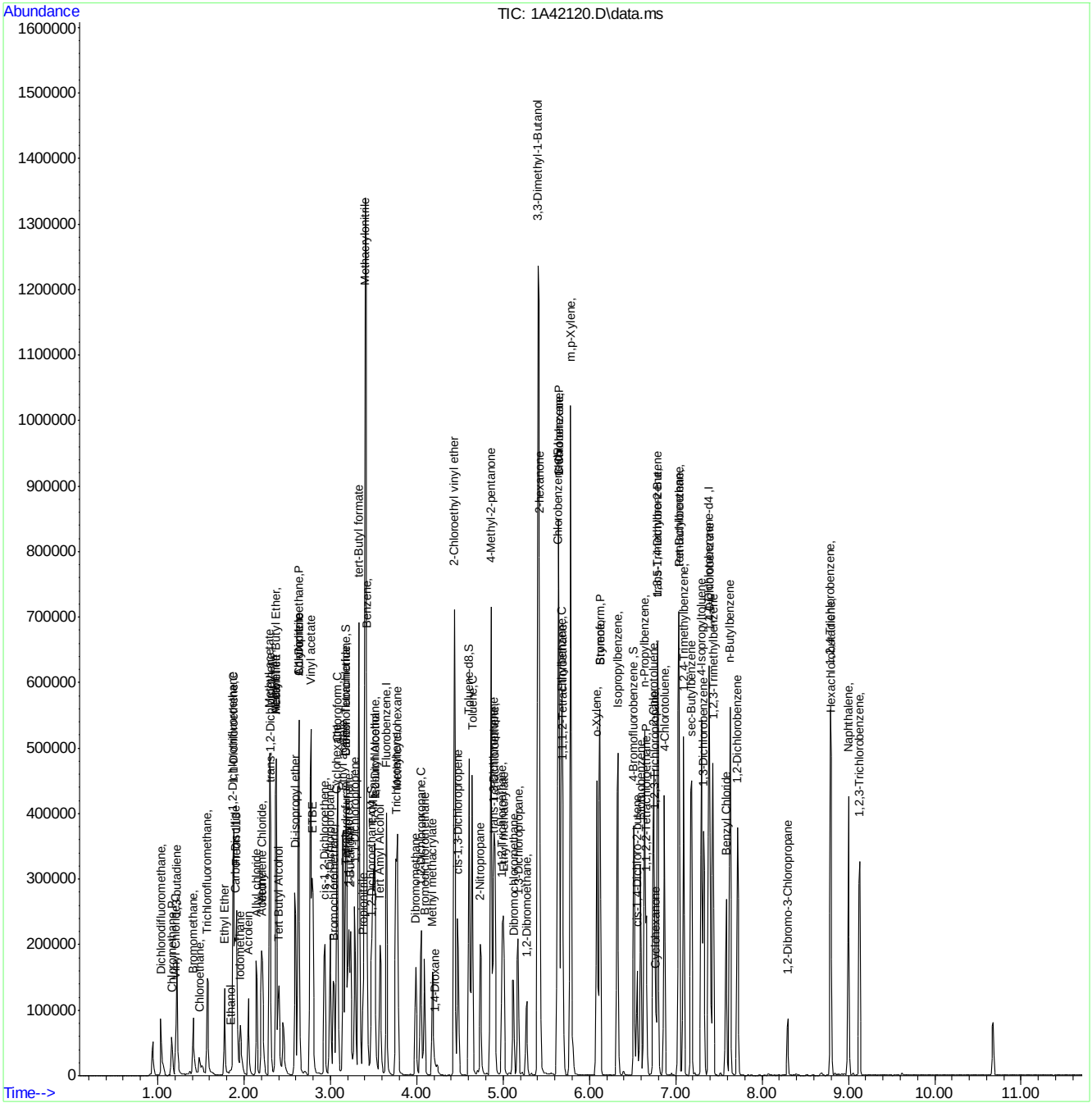
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92)	2-Chlorotoluene	6.745	91	168104	39.08	ug/L	99
93)	trans-1,4-Dichloro-2-B...	6.791	53	24964	38.83	ug/L	98
94)	1,2,3-Trichloropropane	6.752	110	22151	40.02	ug/L	88
95)	Cyclohexanone	6.768	55	14120	199.56	ug/L	98
96)	4-Chlorotoluene	6.868	91	176263	39.22	ug/L	98
97)	tert-Butylbenzene	7.037	91	118641	38.93	ug/L	98
98)	1,2,4-Trimethylbenzene	7.091	105	206765	40.14	ug/L	100
99)	Pentachloroethane	7.037	167	35457	41.42	ug/L	96
100)	sec-Butylbenzene	7.183	105	252914	39.95	ug/L	99
101)	4-Isopropyltoluene	7.299	119	224625	40.24	ug/L	99
102)	1,3-Dichlorobenzene	7.322	146	118881	39.85	ug/L	97
103)	1,2,3-Trimethylbenzene	7.430	105	198270	39.97	ug/L	100
104)	1,4-Dichlorobenzene	7.391	146	121634	39.73	ug/L	95
105)	n-Butylbenzene	7.630	92	112539	40.05	ug/L	97
106)	Benzyl Chloride	7.584	126	29512	41.30	ug/L	98
107)	1,2-Dichlorobenzene	7.714	146	110364	39.75	ug/L	98
108)	1,2-Dibromo-3-Chloropr...	8.299	75	14326	40.17	ug/L	98
109)	Hexachlorobutadiene	8.800	225	41532	40.31	ug/L	97
110)	1,2,4-Trichlorobenzene	8.792	180	77623	40.32	ug/L	99
111)	Naphthalene	9.000	128	205657	38.91	ug/L	100
112)	1,2,3-Trichlorobenzene	9.131	180	72179	39.67	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42120.D
Acq On : 13 Dec 2022 9:27 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1697,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 09:43:15 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



V1A_12-12-2022.M Tue Dec 13 09:44:56 2022 Page: 4

SGS FC1200

Manual Integration Approval Summary

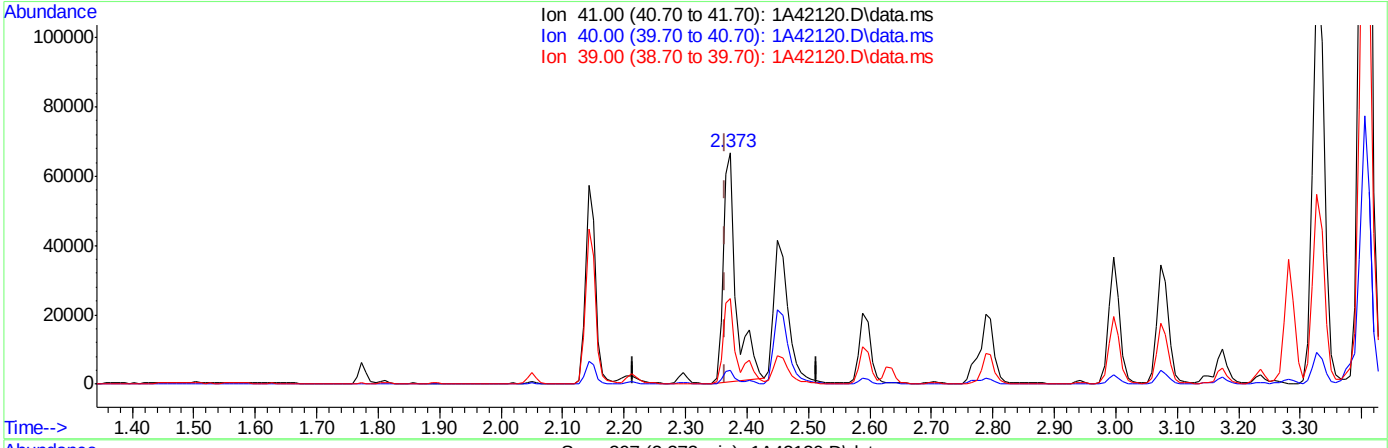
Sample Number: V1A1697-CC1696 **Method:** SW846 8260D
Lab FileID: 1A42120.D **Analyst approved:** 12/13/22 09:47 Jo-Ann Lugo De Jesus
Injection Time: 12/13/22 09:27 **Supervisor approved:** 12/15/22 02:21 Jennifer Fereira

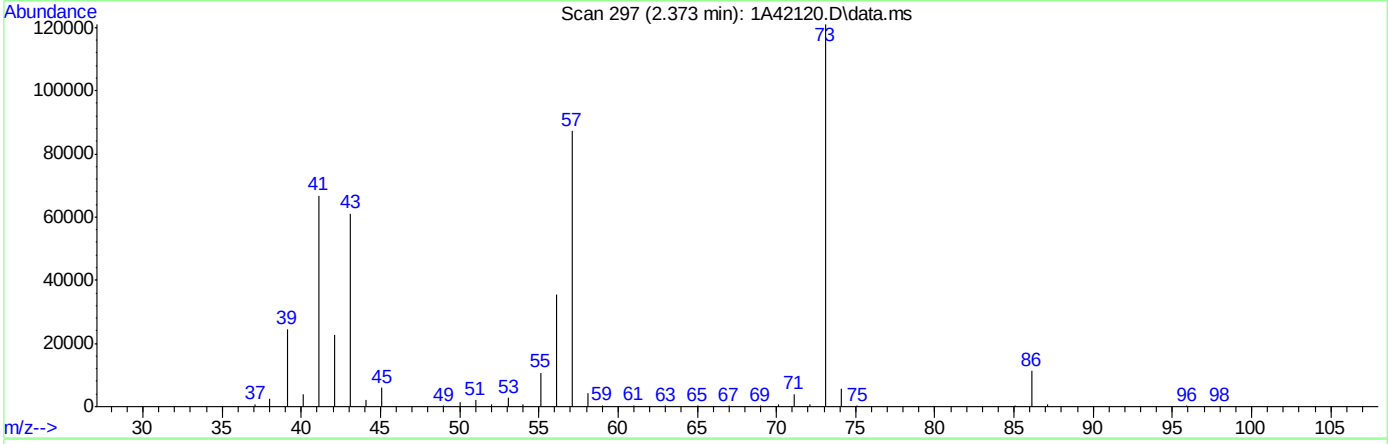
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.37	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.18	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration
Ethylbenzene	100-41-4		5.67	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42120.D
Acq On : 13 Dec 2022 9:27 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1697,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 09:41:22 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42120.D\data.ms

(24) Acetonitrile

2.373min (+0.008) 463.17ug/L

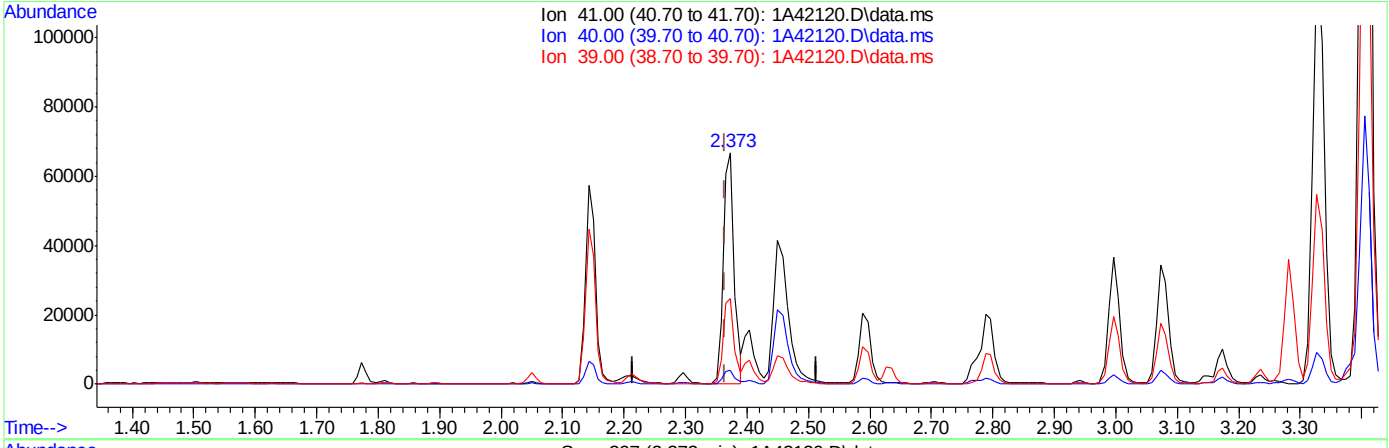
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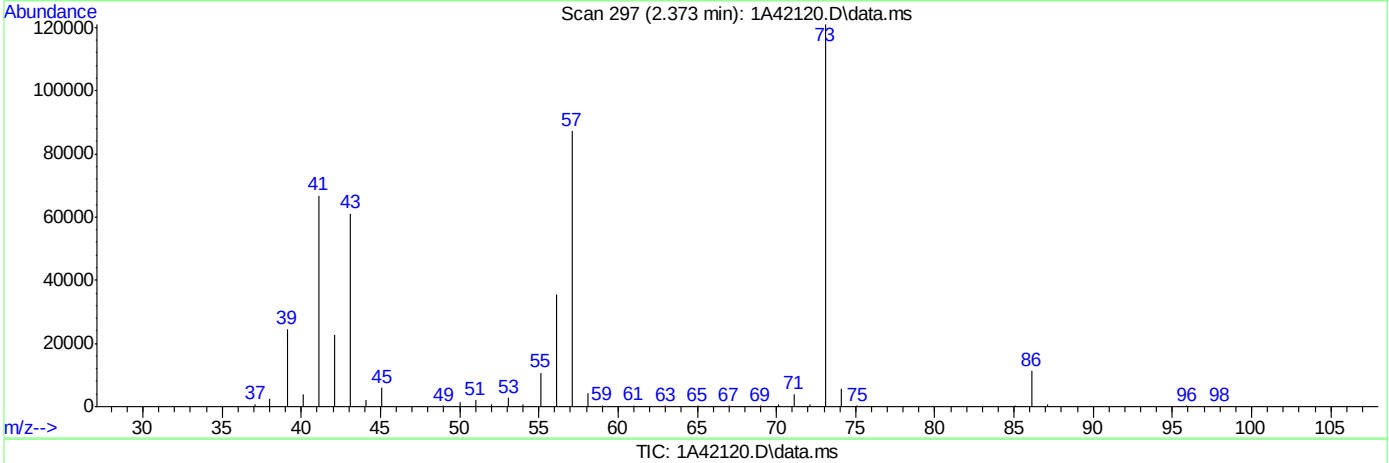
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	5.91
39.00	37.60	36.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42120.D
Acq On : 13 Dec 2022 9:27 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1697,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 09:41:22 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42120.D\data.ms

(24) Acetonitrile

2.373min (+0.008) 393.60ug/L m

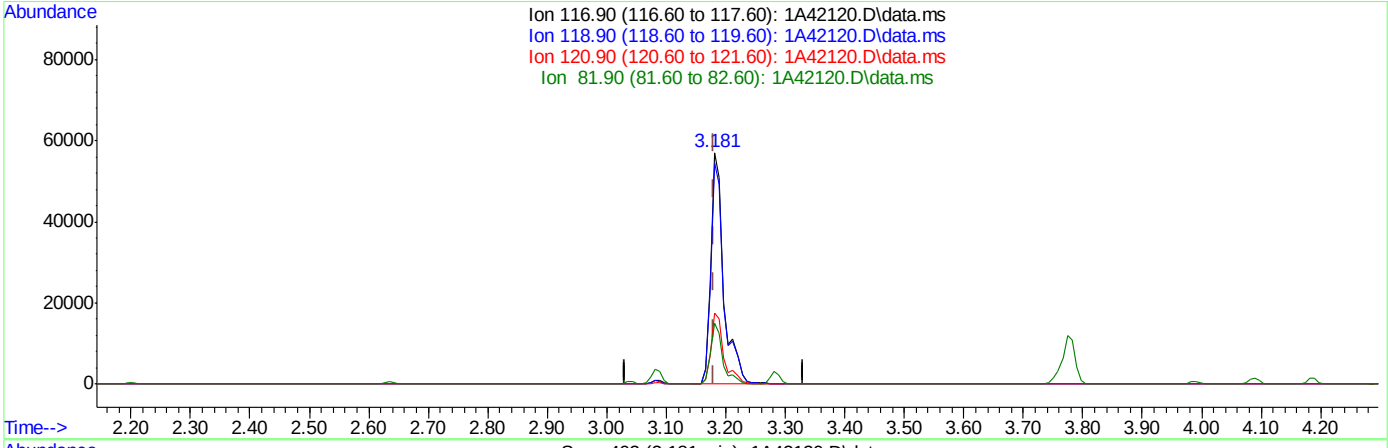
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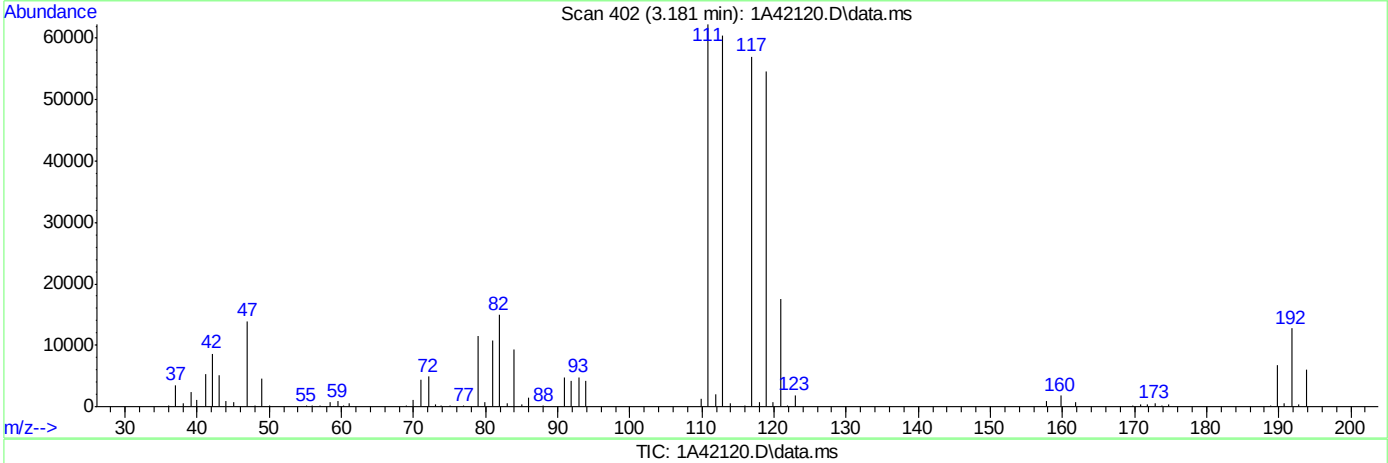
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.04
39.00	37.60	36.78
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42120.D
Acq On : 13 Dec 2022 9:27 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1697,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 09:41:22 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42120.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 44.68ug/L

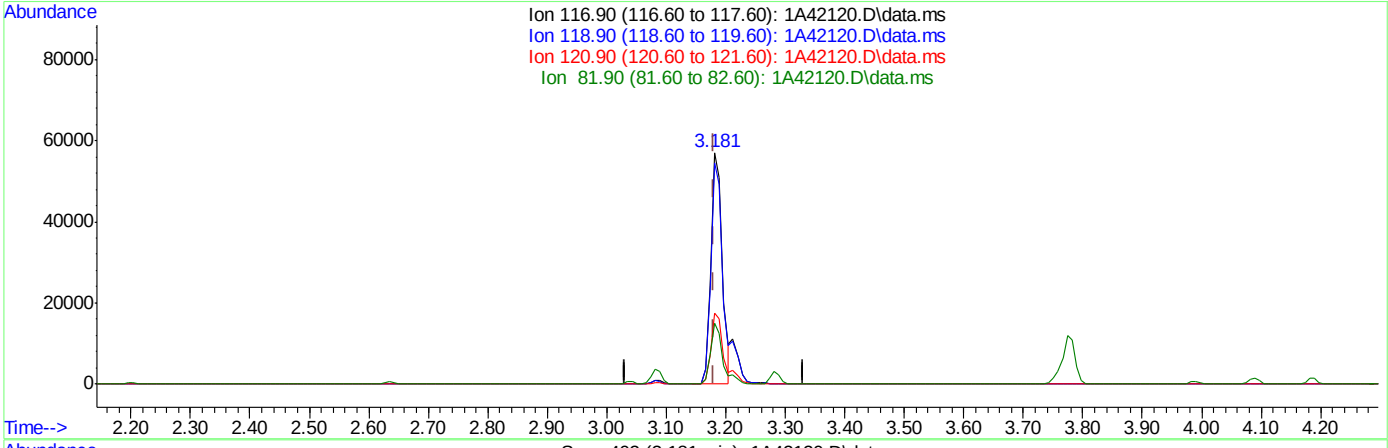
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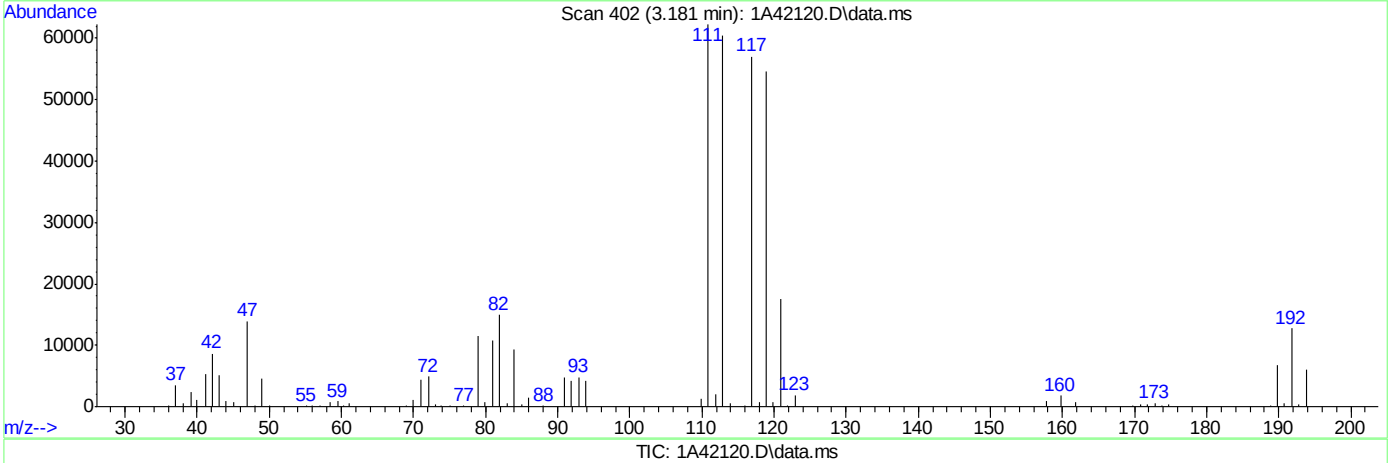
Ion	Exp%	Act%
116.90	100	100
118.90	95.70	95.54
120.90	30.30	30.88
81.90	26.50	26.21

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42120.D
Acq On : 13 Dec 2022 9:27 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1697,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 09:41:22 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42120.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 39.28ug/L m

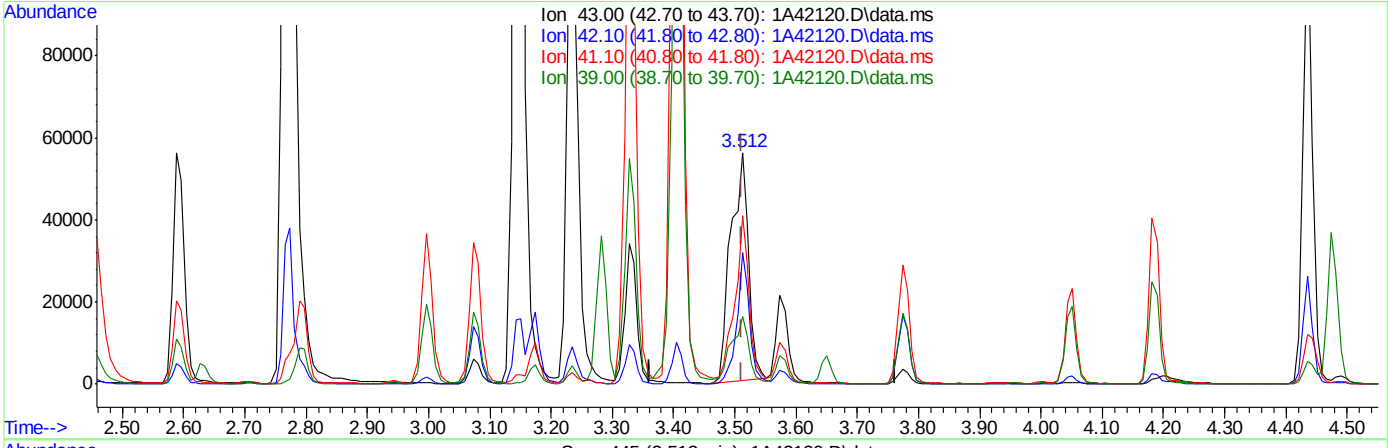
response 76726

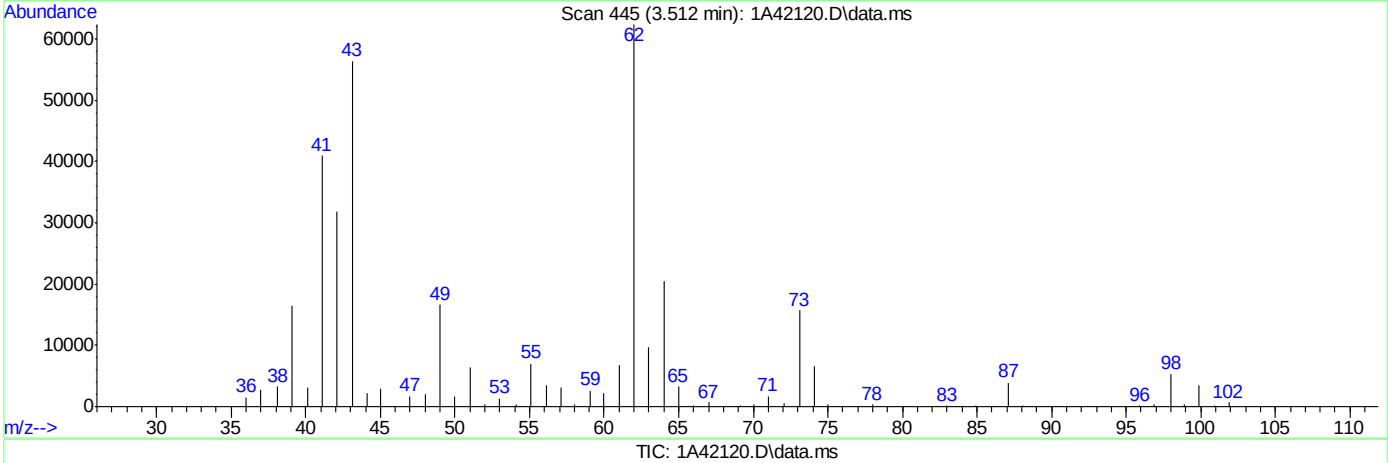
Ion	Exp%	Act%
116.90	100	100
118.90	95.70	95.54
120.90	30.30	30.88
81.90	26.50	26.21

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42120.D
Acq On : 13 Dec 2022 9:27 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1697,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 09:41:22 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42120.D\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 1508.71ug/L

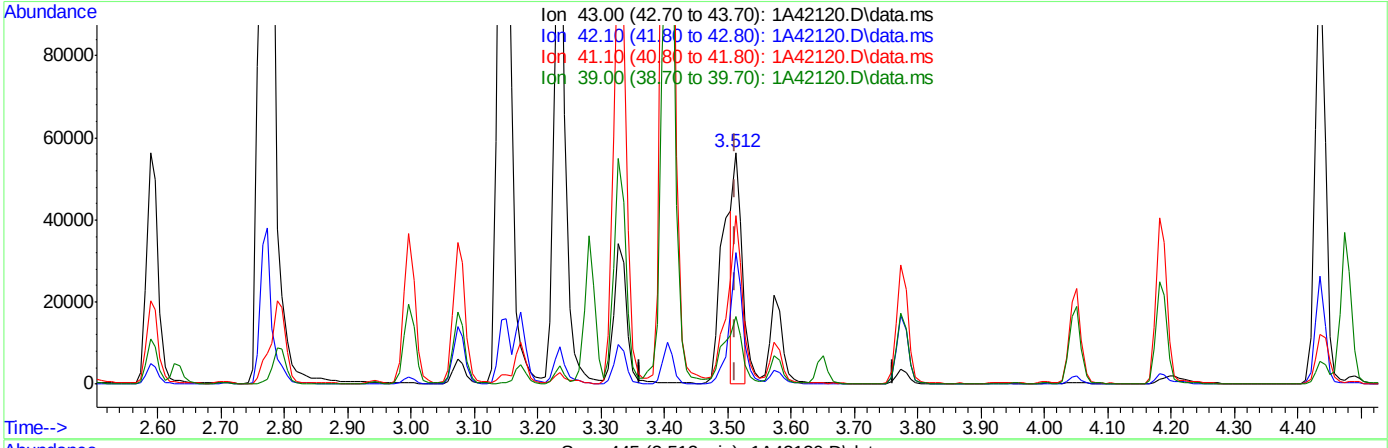
response 111119

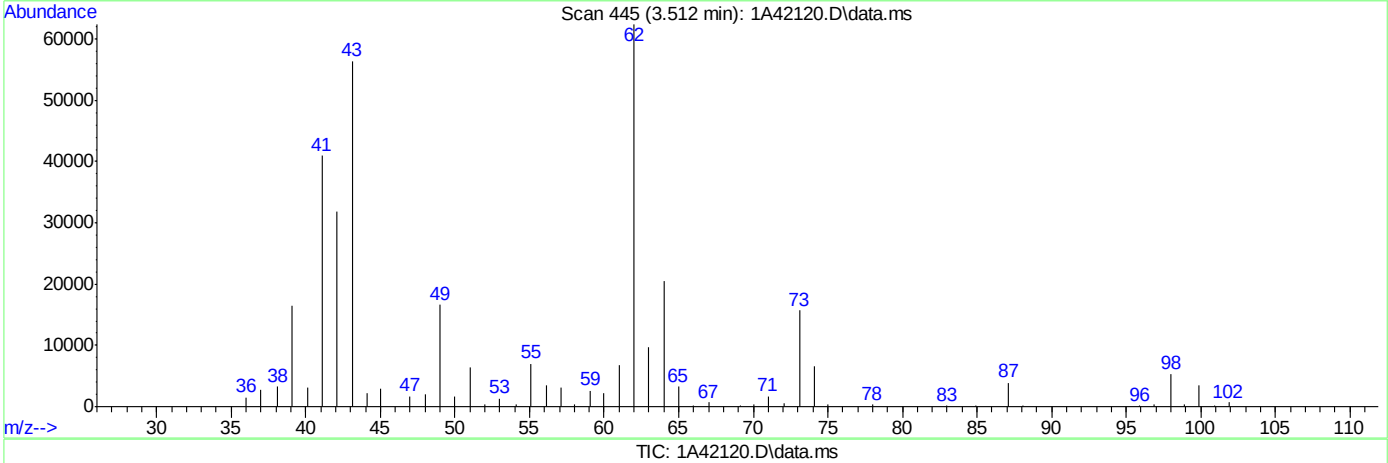
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	56.54
41.10	71.70	70.19
39.00	29.20	28.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42120.D
Acq On : 13 Dec 2022 9:27 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1697,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 09:41:22 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42120.D\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 738.01ug/L m

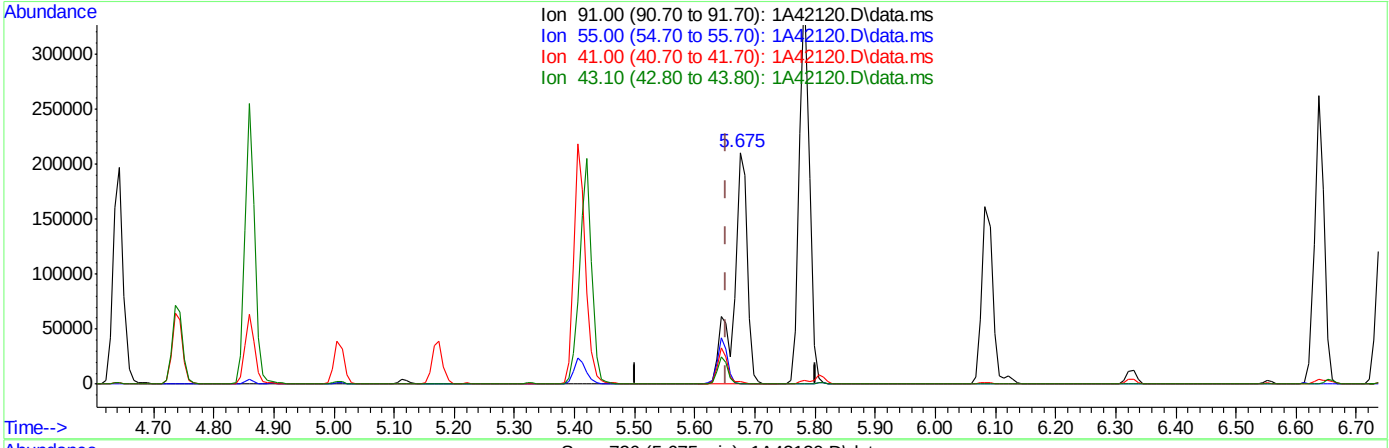
response 51491

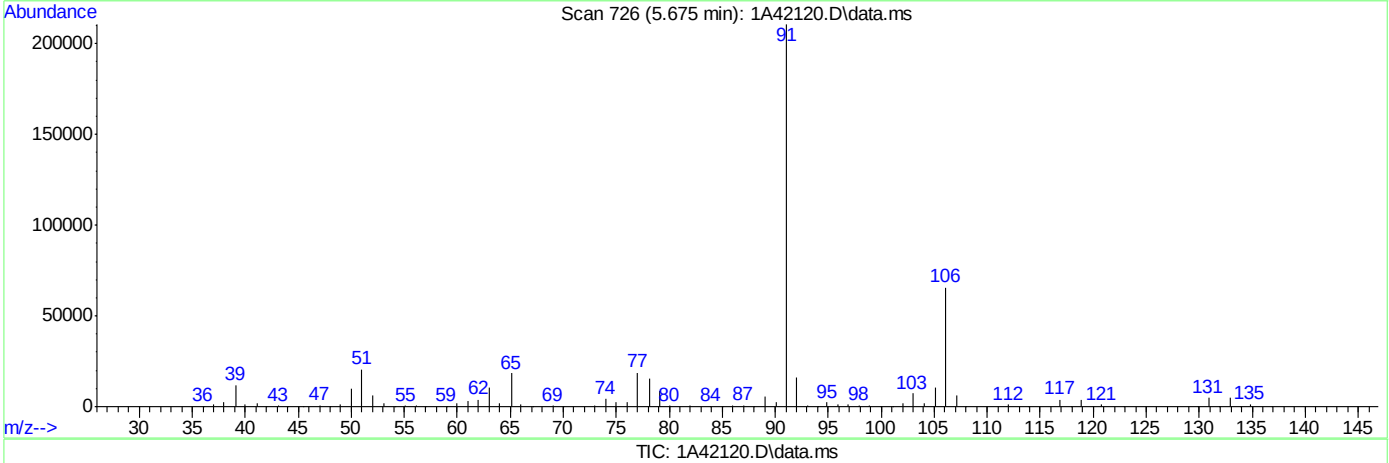
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	56.60
41.10	71.70	72.62
39.00	29.20	29.15

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42120.D
Acq On : 13 Dec 2022 9:27 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1697,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 09:41:22 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42120.D\data.ms

(76) 1-Chlorohexane

5.675min (+0.023) 166.91ug/L

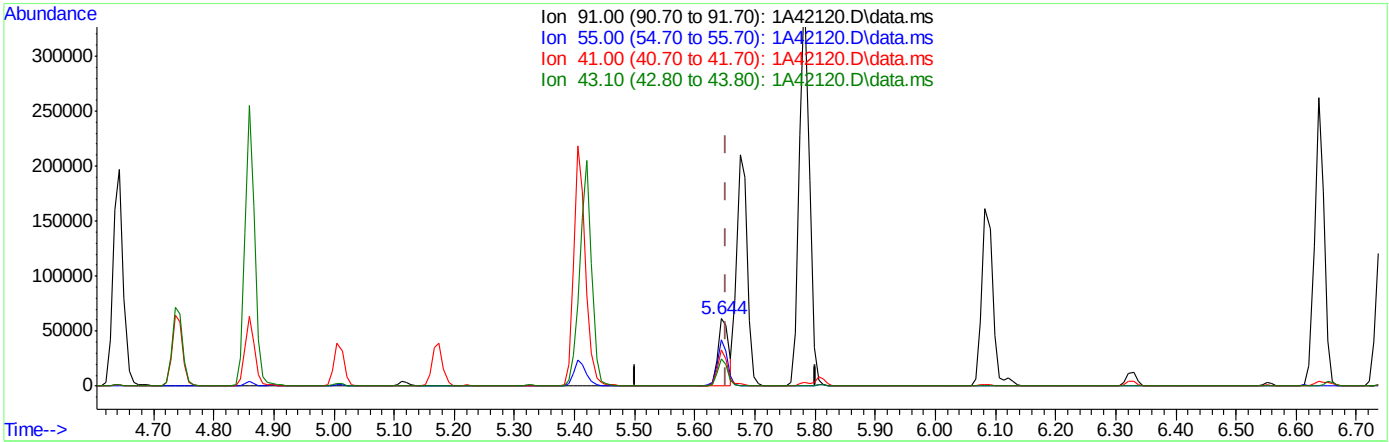
response 331303

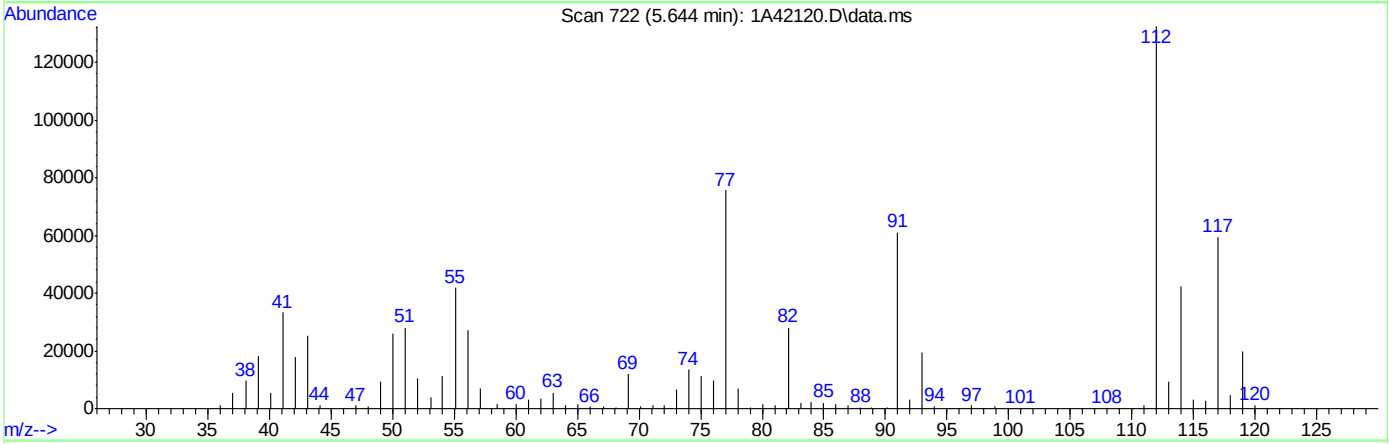
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	0.19#
41.00	48.10	0.91#
43.10	37.30	0.17#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42120.D
Acq On : 13 Dec 2022 9:27 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1697,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 09:41:22 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42120.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.008) 38.84ug/L m

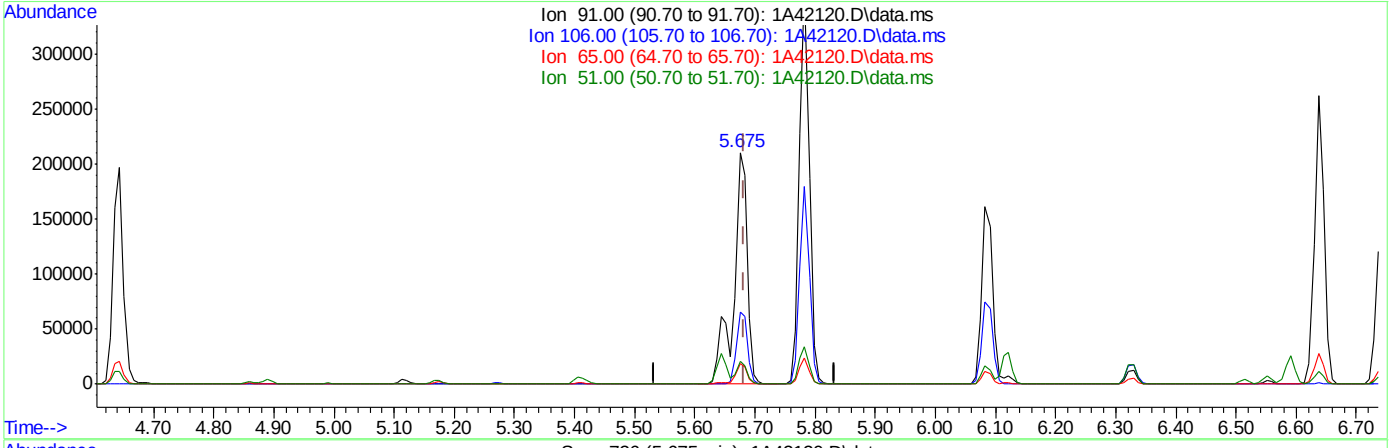
response 77095

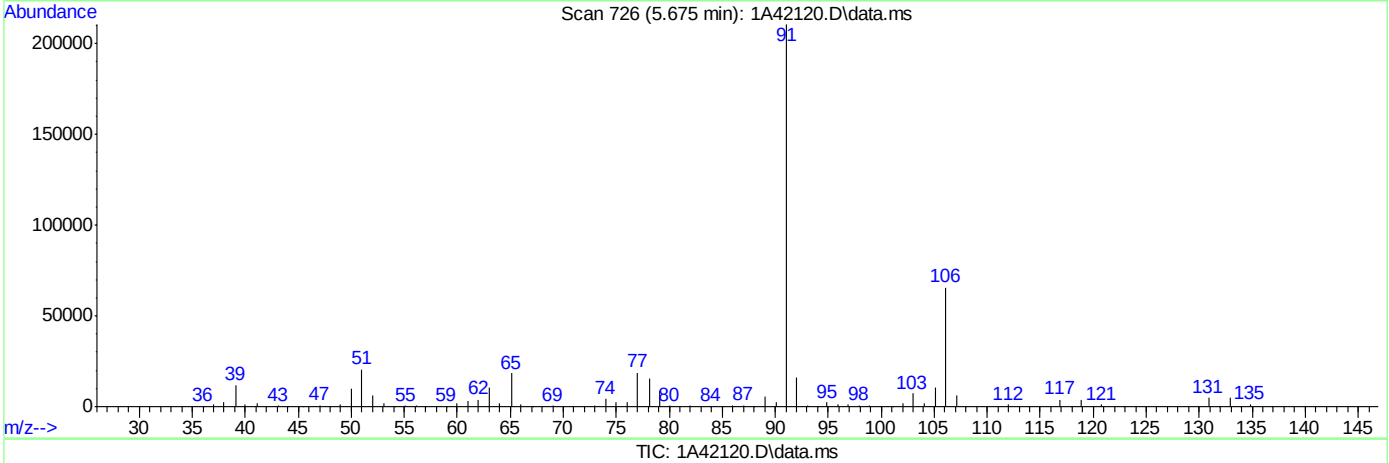
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	68.55
41.00	48.10	54.50
43.10	37.30	41.50

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42120.D
Acq On : 13 Dec 2022 9:27 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1697,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 09:41:22 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42120.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.008) 51.03ug/L

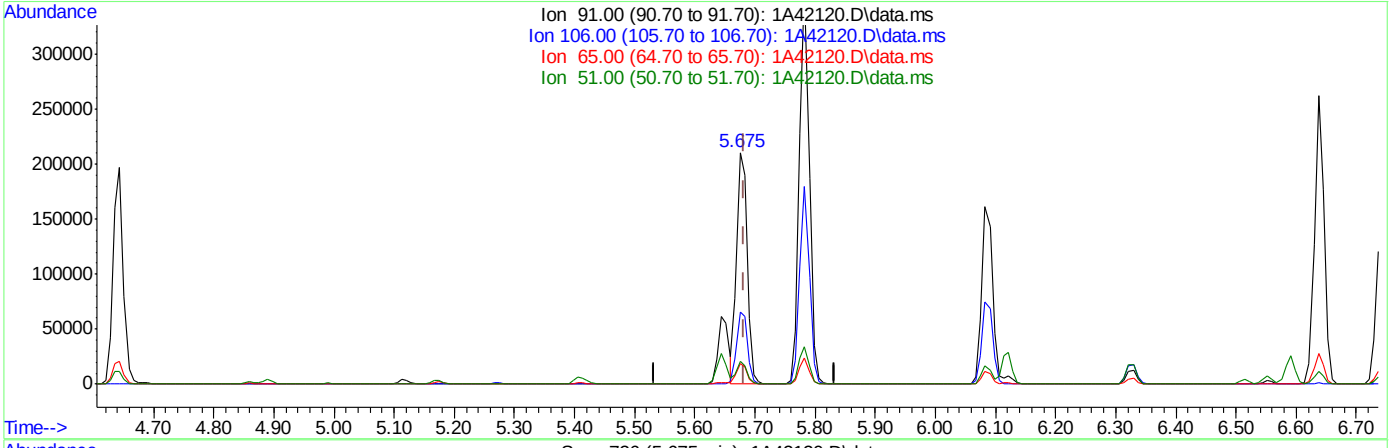
response 331303

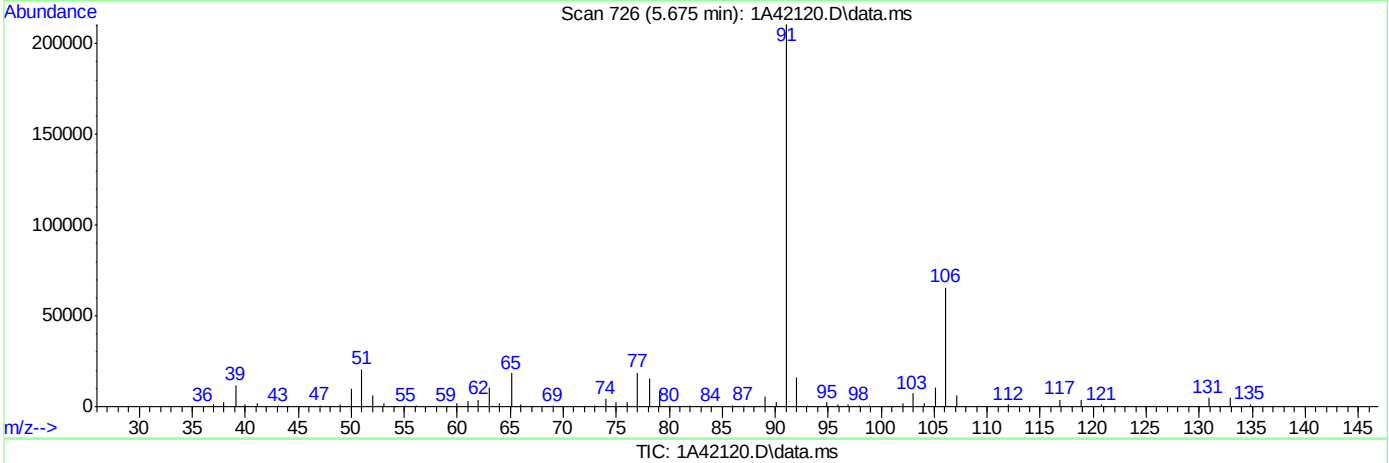
Ion	Exp%	Act%
91.00	100	100
106.00	32.70	31.16
65.00	8.50	8.72
51.00	9.00	9.73

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-13-2022\
Data File : 1A42120.D
Acq On : 13 Dec 2022 9:27 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1697,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 13 09:41:22 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42120.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.008) 39.12ug/L m

response 253986

Ion	Exp%	Act%
91.00	100	100
106.00	32.70	31.16
65.00	8.50	8.72
51.00	9.00	9.73

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/15/22 02:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42146.d
Acq On : 13 Dec 2022 7:46 pm
Operator : joannel
Sample : ECC1696-5
Misc : MS53004,V1A1697,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 13 23:35:17 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	220697	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	177144	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.384	152	93716	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	63413	44.78	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	89.56%		
49) 1,2-Dichloroethane-d4	3.474	65	71939	49.56	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery =	99.12%		
63) Toluene-d8	4.605	98	219199	49.20	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery =	98.40%		
86) 4-Bromofluorobenzene	6.514	174	78672	49.27	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	98.54%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.034	85	48219	31.13	ug/L	98
3) Chloromethane	1.165	50	39319	28.07	ug/L	99
4) 1,3-butadiene	1.226	39	35169	33.49	ug/L	93
5) Vinyl Chloride	1.211	62	42777	29.69	ug/L	98
6) Bromomethane	1.411	94	28354	30.55	ug/L	100
7) Chloroethane	1.480	64	11903	20.88	ug/L	97
8) Trichlorofluoromethane	1.573	101	68222	32.81	ug/L	99
9) Ethyl Ether	1.773	59	35301	34.31	ug/L	99
10) Ethanol	1.850	45	13847	668.31	ug/L	93
11) 1,2-Dichlorotrifluoroe...	1.873	67	50898	31.75	ug/L	97
12) 1,1-Dichloroethene	1.881	61	60971	32.13	ug/L	93
13) Freon 113	1.911	101	46515	34.84	ug/L	98
14) Carbon Disulfide	1.896	76	115683	30.67	ug/L	97
15) Iodomethane	1.958	142	59714	41.09	ug/L	98
16) Acrolein	2.050	56	48747	164.53	ug/L	99
17) Allyl chloride	2.142	41	51017	29.86	ug/L	98
18) Methylene Chloride	2.204	49	52174	31.32	ug/L	93
19) Acetone	2.212	43	75751	168.87	ug/L	98
20) Methyl acetate	2.296	43	186223	174.89	ug/L	100
21) trans-1,2-Dichloroethene	2.304	61	60872	32.35	ug/L	89
22) Hexane	2.373	56	35319	32.75	ug/L	97
23) Methyl Tert Butyl Ether	2.373	73	138185	35.30	ug/L	91
24) Acetonitrile	2.373	41	66548m	318.12	ug/L	
25) Tert Butyl Alcohol	2.404	59	85990	363.89	ug/L	98
26) Di-isopropyl ether	2.589	45	124500	34.36	ug/L	98
27) Chloroprene	2.635	53	146467	32.86	ug/L	98
28) 1,1-Dichloroethane	2.635	63	78219	32.85	ug/L	99
29) Acrylonitrile	2.635	52	90750	167.98	ug/L	93
30) ETBE	2.789	59	139050	35.65	ug/L	99
31) Vinyl acetate	2.773	43	419995	163.11	ug/L	100
32) cis-1,2-Dichloroethene	2.935	96	50338	33.53	ug/L	92
33) 2,2-Dichloropropane	2.997	77	64057	29.59	ug/L	99
34) Bromochloromethane	3.043	128	25995	36.75	ug/L #	83
35) Cyclohexane	3.074	56	67980	32.22	ug/L	98
36) Chloroform	3.081	83	87403	33.60	ug/L	98
37) Ethyl acetate	3.143	43	248209	173.23	ug/L	99
38) Tetrahydrofuran	3.174	42	17218	34.79	ug/L	98
40) Carbon Tetrachloride	3.181	117	62253m	32.21	ug/L	
41) 1,1,1-Trichloroethane	3.212	97	72863	33.47	ug/L	99
42) 2-Butanone	3.235	43	130650	160.75	ug/L	98
43) 1,1-Dichloropropene	3.281	75	61999	33.00	ug/L	99
44) tert-Butyl formate	3.328	59	191266	165.20	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42146.d
Acq On : 13 Dec 2022 7:46 pm
Operator : joannel
Sample : ECC1696-5
Misc : MS53004,V1A1697,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 13 23:35:17 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	3.381	54	80626	342.08	ug/L		99
46)	Methacrylonitrile	3.405	41	304138	352.39	ug/L		99
47)	Benzene	3.420	78	186659	34.25	ug/L		99
48)	TAME	3.497	73	134717	35.86	ug/L		98
50)	1,2-Dichloroethane	3.512	62	66292	34.88	ug/L		100
51)	Isobutyl Alcohol	3.512	43	48976m	710.81	ug/L		
52)	Tert Amyl Alcohol	3.574	59	69711	361.38	ug/L		98
53)	Trichloroethene	3.759	95	51466	33.48	ug/L		100
54)	Methylcyclohexane	3.774	83	78194	34.41	ug/L		99
55)	Dibromomethane	3.989	93	33293	35.41	ug/L		99
56)	1,2-Dichloropropane	4.051	63	46622	33.87	ug/L		99
57)	Bromodichloromethane	4.089	83	61764	33.86	ug/L		98
58)	Methyl methacrylate	4.182	41	41539	33.07	ug/L		98
59)	1,4-Dioxane	4.205	88	14442	750.44	ug/L		97
60)	2-Chloroethyl vinyl ether	4.436	63	166086	177.96	ug/L		99
61)	cis-1,3-Dichloropropene	4.474	75	74716	33.94	ug/L		99
64)	Toluene	4.644	91	198771	33.40	ug/L		99
65)	2-Nitropropane	4.736	41	66387	168.00	ug/L		98
66)	4-Methyl-2-pentanone	4.859	43	265412	160.74	ug/L		100
67)	trans-1,3-Dichloropropene	4.890	75	66320	34.67	ug/L		99
68)	Tetrachloroethene	4.905	166	60430	36.95	ug/L		97
69)	Ethyl methacrylate	5.005	69	61472	34.45	ug/L		97
70)	1,1,2-Trichloroethane	4.990	83	38204	35.96	ug/L		99
71)	Dibromochloromethane	5.121	129	50952	36.00	ug/L		99
72)	1,3-Dichloropropane	5.175	76	76052	35.89	ug/L		99
73)	1,2-Dibromoethane	5.275	107	50528	36.50	ug/L		99
74)	3,3-Dimethyl-1-Butanol	5.406	57	376655	1776.13	ug/L		100
75)	2-hexanone	5.421	43	255982	165.11	ug/L		98
76)	1-Chlorohexane	5.644	91	63327m	32.67	ug/L		
77)	Ethylbenzene	5.675	91	214102m	33.76	ug/L		
78)	Chlorobenzene	5.644	112	132668	35.41	ug/L		98
79)	1,1,1,2-Tetrachloroethane	5.690	131	48976	36.66	ug/L		96
80)	m,p-Xylene	5.783	91	339544	68.02	ug/L		99
81)	o-Xylene	6.083	91	175096	33.95	ug/L		99
82)	Styrene	6.121	104	140355	35.29	ug/L		99
83)	Bromoform	6.121	173	34145	35.87	ug/L		99
84)	Isopropylbenzene	6.329	105	207662	34.16	ug/L		99
87)	cis-1,4-Dichloro-2-butene	6.552	53	16340	28.25	ug/L		92
88)	n-Propylbenzene	6.637	91	245528	33.65	ug/L		98
89)	Bromobenzene	6.591	156	59285	36.30	ug/L		97
90)	1,1,2,2-Tetrachloroethane	6.660	83	64698	35.81	ug/L		99
91)	1,3,5-Trimethylbenzene	6.791	105	182329	34.32	ug/L		99
92)	2-Chlorotoluene	6.745	91	142990	33.71	ug/L		98
93)	trans-1,4-Dichloro-2-B...	6.791	53	19990	31.53	ug/L		96
94)	1,2,3-Trichloropropane	6.752	110	19952	36.56	ug/L		92
95)	Cyclohexanone	6.768	55	11944	170.75	ug/L		97
96)	4-Chlorotoluene	6.868	91	150833	34.04	ug/L		97
97)	tert-Butylbenzene	7.037	91	99847	33.22	ug/L		97
98)	1,2,4-Trimethylbenzene	7.091	105	177506	34.95	ug/L		99
99)	Pentachloroethane	7.037	167	27916	33.07	ug/L	#	84
100)	sec-Butylbenzene	7.176	105	213086	34.14	ug/L		98
101)	4-Isopropyltoluene	7.299	119	190504	34.61	ug/L		99
102)	1,3-Dichlorobenzene	7.322	146	104788	35.62	ug/L		96
103)	1,2,3-Trimethylbenzene	7.430	105	173696	35.51	ug/L		99
104)	1,4-Dichlorobenzene	7.391	146	106570	35.30	ug/L		95
105)	n-Butylbenzene	7.630	92	93924	33.89	ug/L		99
106)	Benzyl Chloride	7.584	126	20801	29.52	ug/L		97
107)	1,2-Dichlorobenzene	7.714	146	99164	36.22	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42146.d
Acq On : 13 Dec 2022 7:46 pm
Operator : joannel
Sample : ECC1696-5
Misc : MS53004,V1A1697,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 13 23:35:17 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

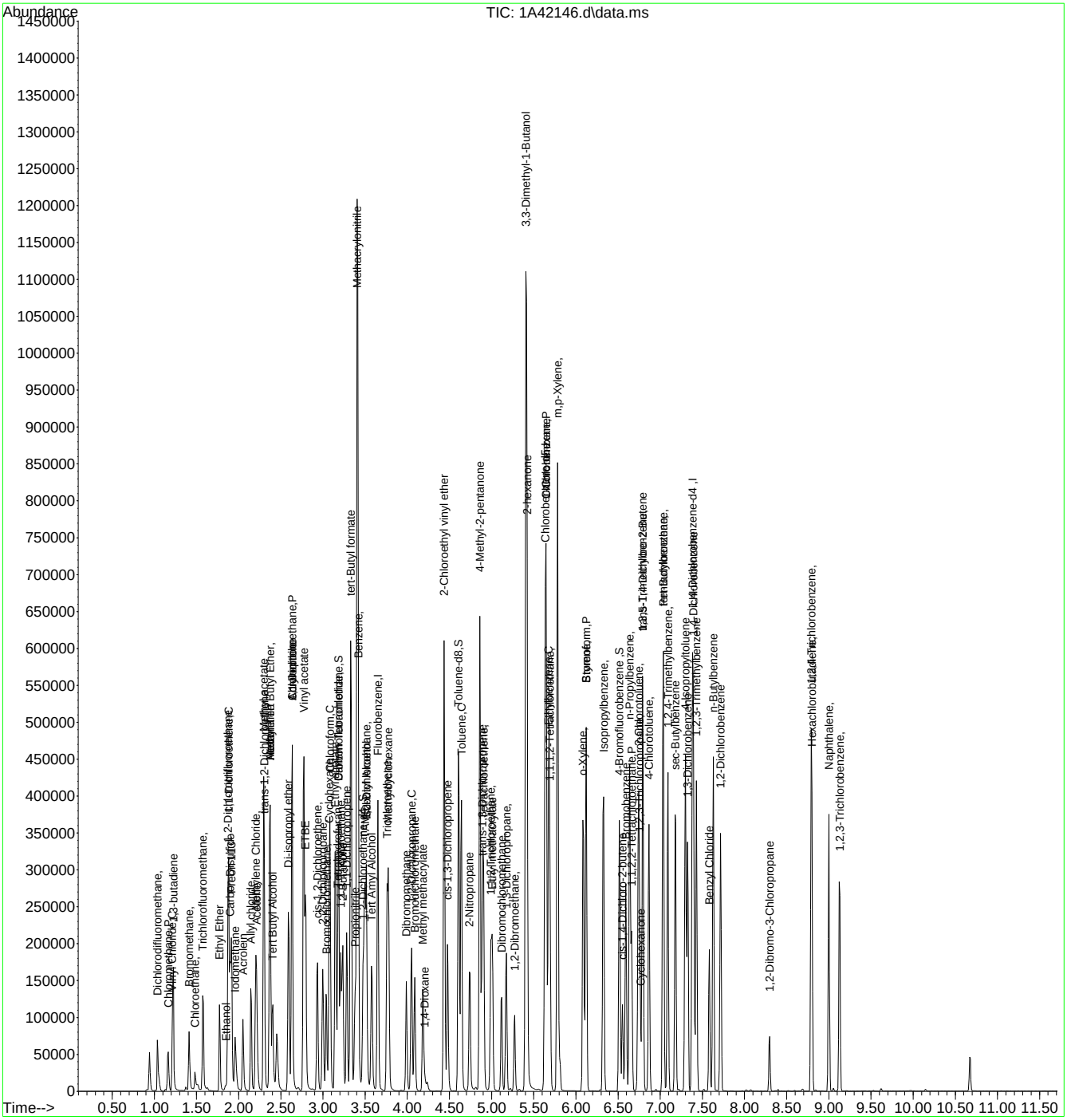
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	8.299	75	12397	35.25	ug/L	97
109) Hexachlorobutadiene	8.800	225	35827	35.27	ug/L	98
110) 1,2,4-Trichlorobenzene	8.792	180	68788	36.24	ug/L	98
111) Naphthalene	9.000	128	184724	35.44	ug/L	99
112) 1,2,3-Trichlorobenzene	9.131	180	64921	36.19	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42146.d
Acq On : 13 Dec 2022 7:46 pm
Operator : joannel
Sample : ECC1696-5
Misc : MS53004,V1A1697,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 13 23:35:17 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



Manual Integration Approval Summary

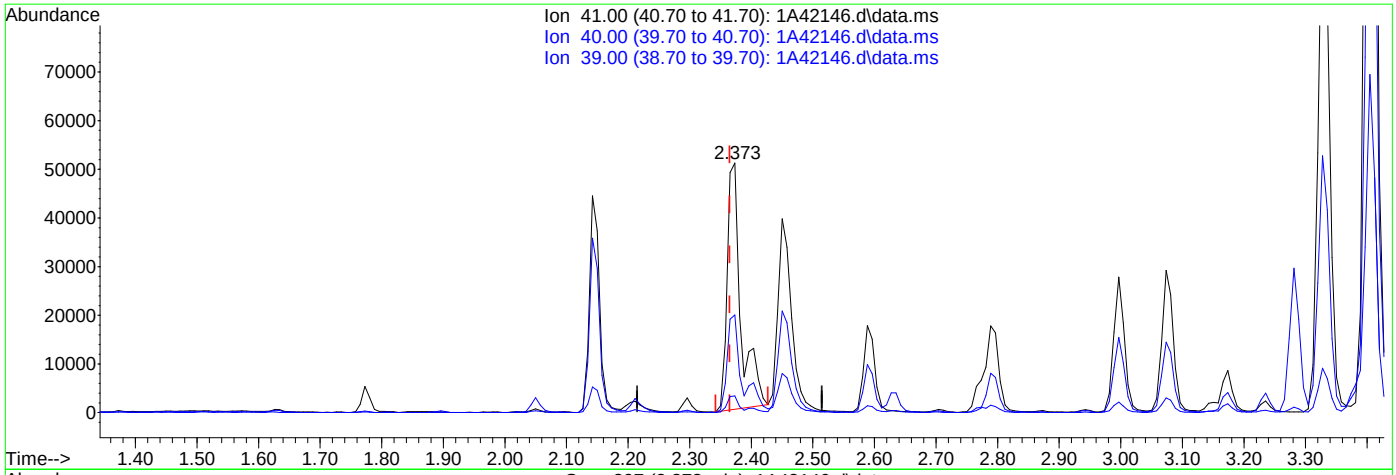
Sample Number: V1A1697-ECC1696 **Method:** SW846 8260D
Lab FileID: 1A42146.D **Analyst approved:** 12/13/22 23:37 Celine Celis
Injection Time: 12/13/22 19:46 **Supervisor approved:** 12/15/22 02:21 Jennifer Fereira

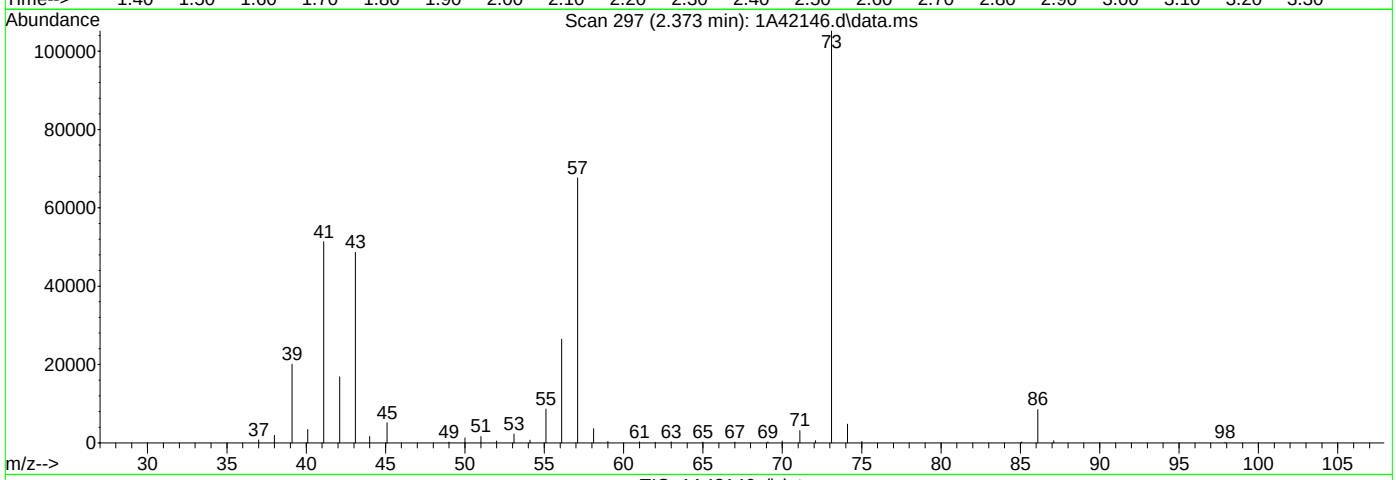
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.37	Overlapping peak
Carbon Tetrachloride	56-23-5		3.18	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Overlapping peak
1-Chlorohexane	544-10-5		5.64	Overlapping peak
Ethylbenzene	100-41-4		5.67	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42146.d
Acq On : 13 Dec 2022 7:46 pm
Operator : joannel
Sample : ECC1696-5
Misc : MS53004,V1A1697,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 13 22:50:01 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42146.d\data.ms

(24) Acetonitrile

2.373min (+0.008) 377.96ug/L

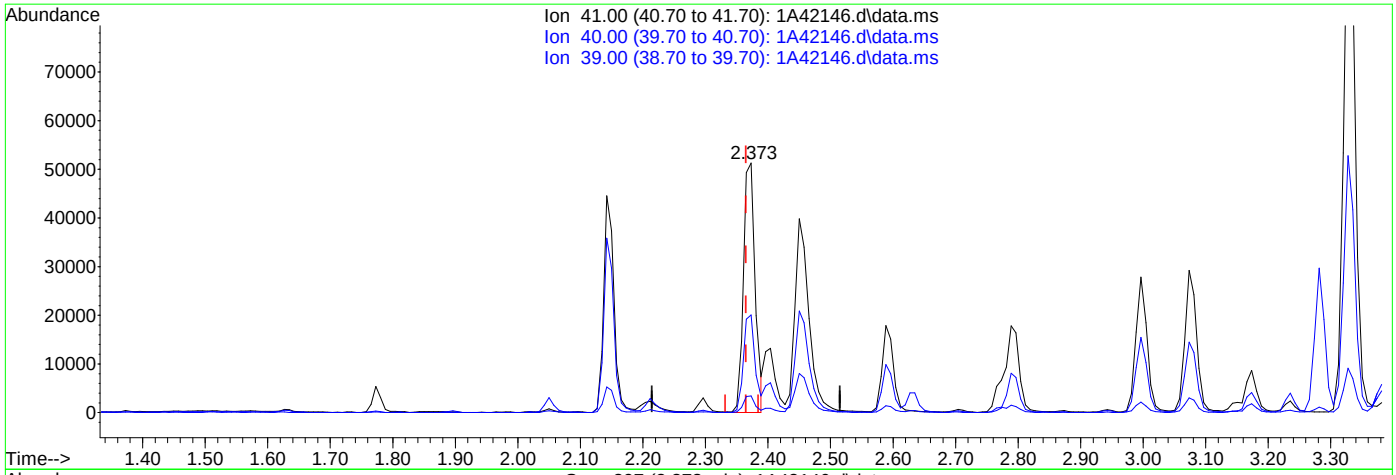
response 79065

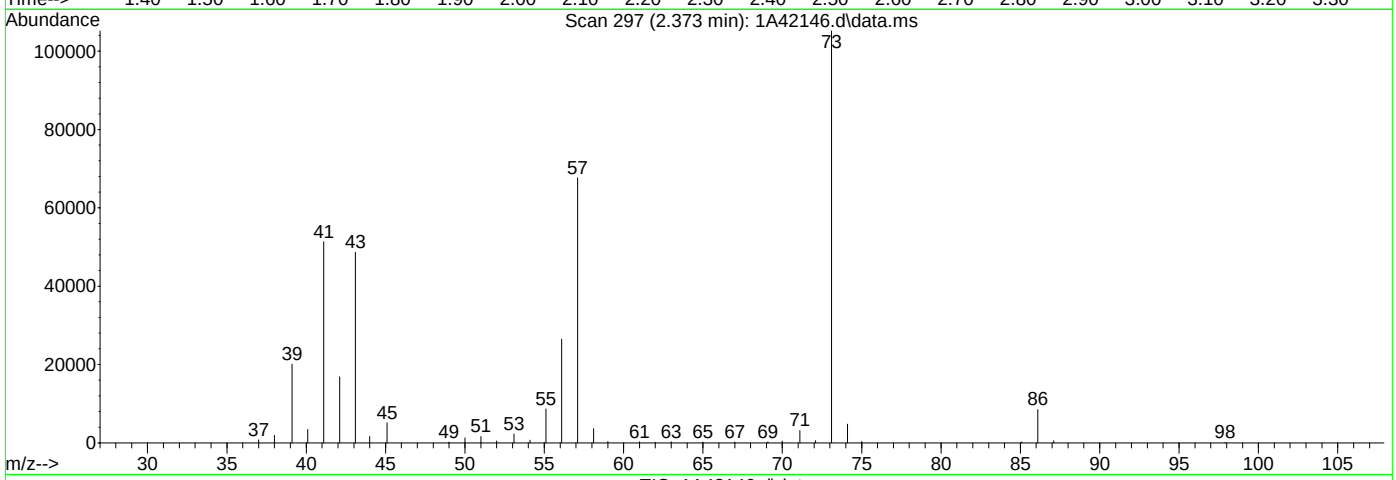
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.72
39.00	37.60	39.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42146.d
Acq On : 13 Dec 2022 7:46 pm
Operator : joannel
Sample : ECC1696-5
Misc : MS53004,V1A1697,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 13 22:50:01 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42146.d\data.ms

(24) Acetonitrile

2.373min (+0.008) 318.12ug/L m

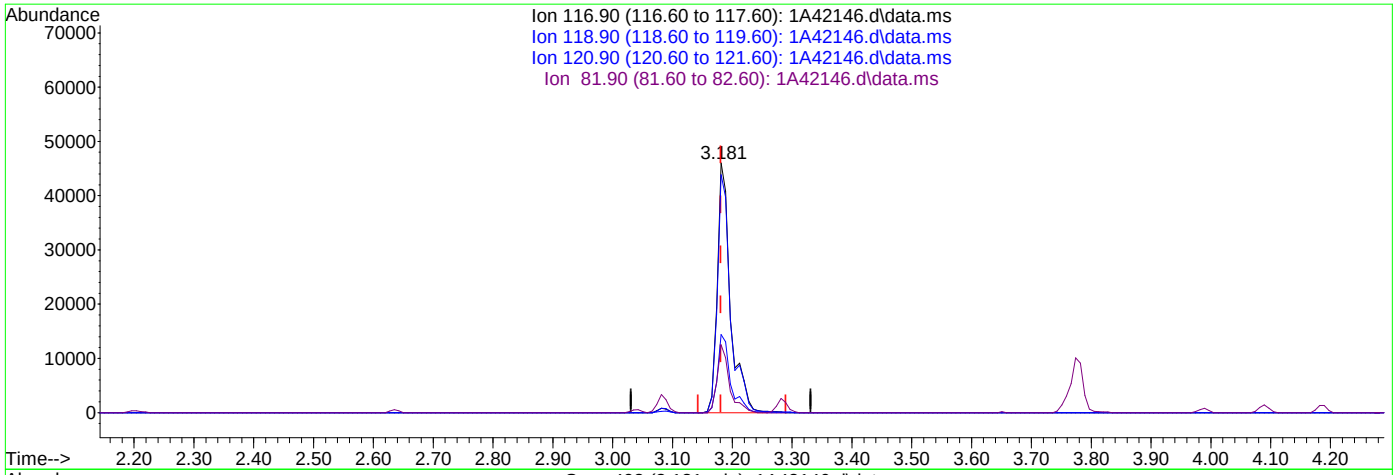
response 66548

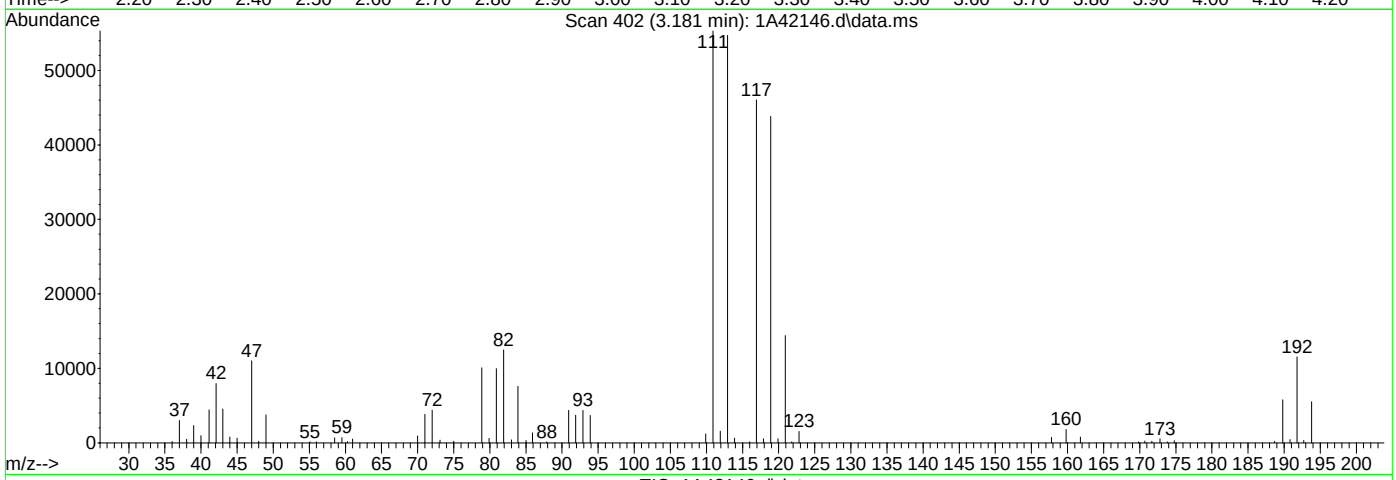
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.70
39.00	37.60	39.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42146.d
Acq On : 13 Dec 2022 7:46 pm
Operator : joannel
Sample : ECC1696-5
Misc : MS53004,V1A1697,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 13 22:50:01 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42146.d\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 36.77ug/L

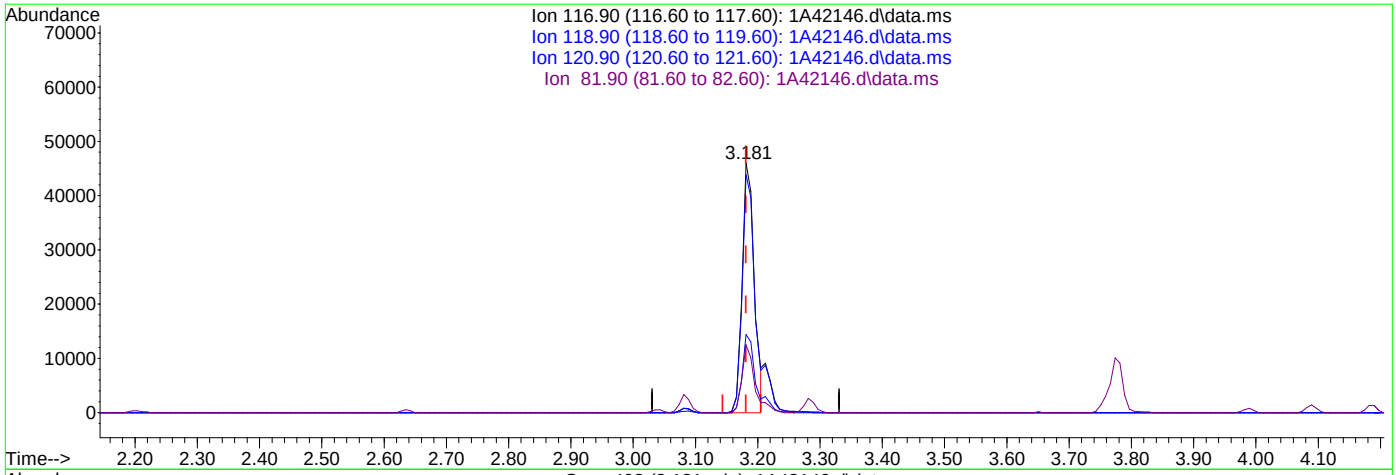
response 71060

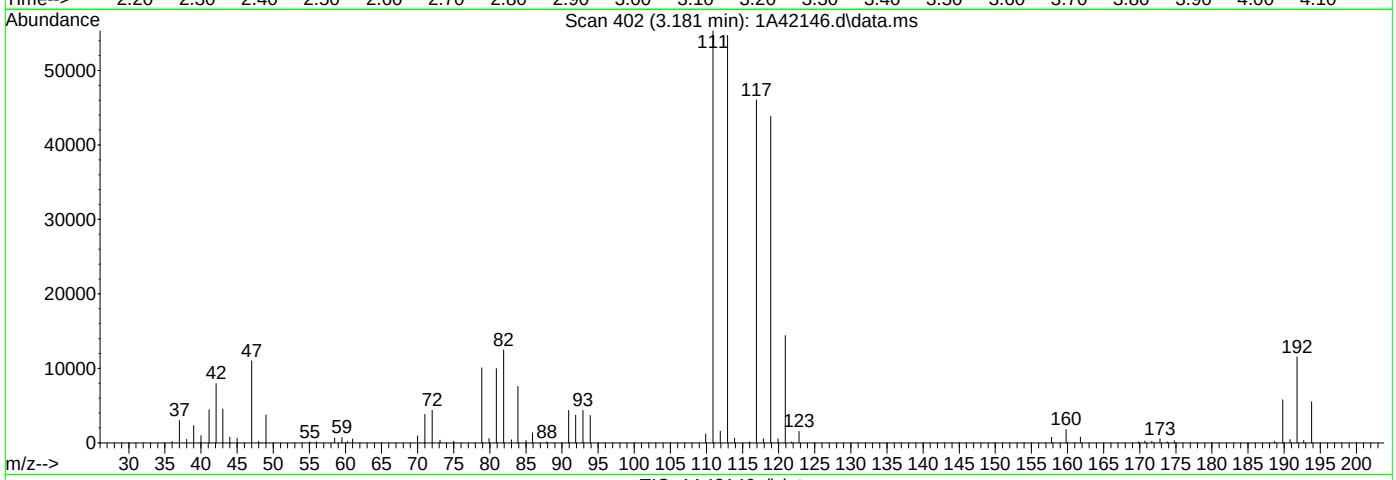
Ion	Exp%	Act%
116.90	100	100
118.90	95.70	95.20
120.90	30.30	31.25
81.90	26.50	27.14

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42146.d
Acq On : 13 Dec 2022 7:46 pm
Operator : joannel
Sample : ECC1696-5
Misc : MS53004,V1A1697,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 13 22:50:01 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42146.d\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 32.21ug/L m

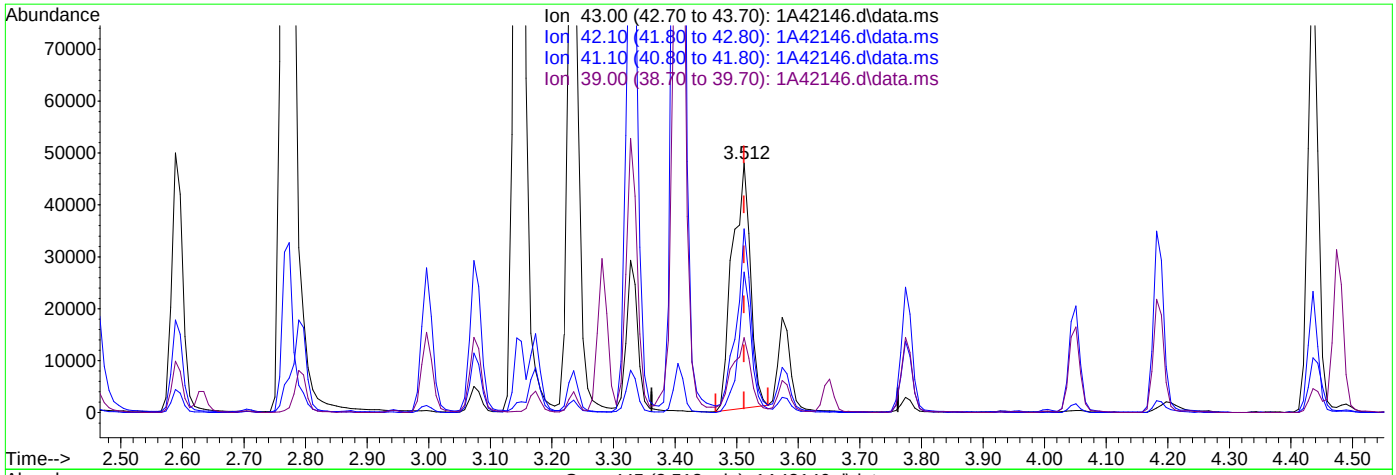
response 62253

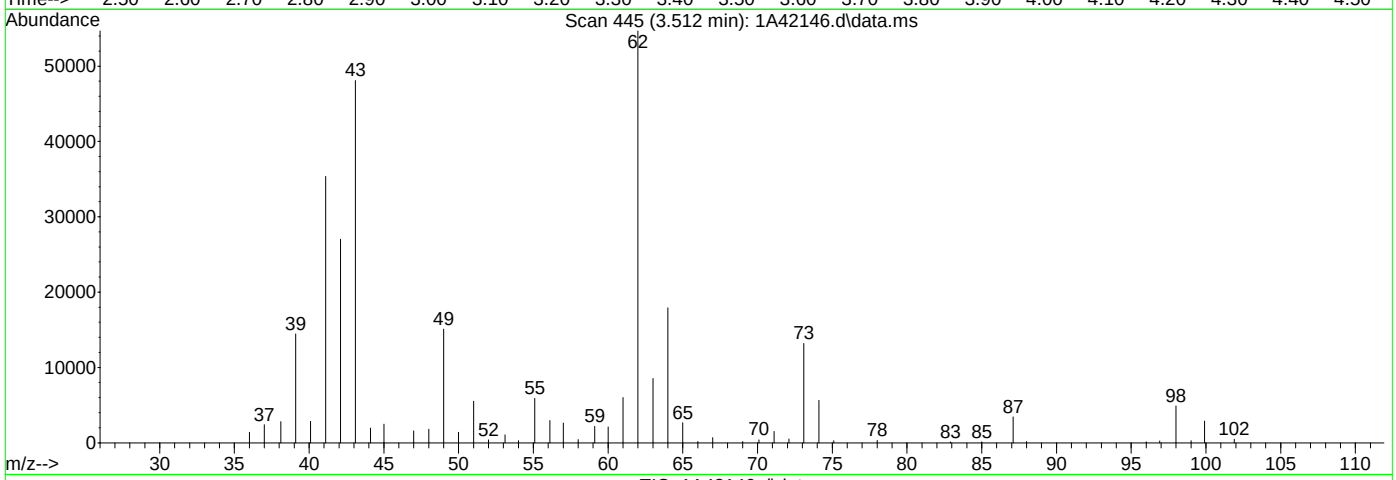
Ion	Exp%	Act%
116.90	100	100
118.90	95.70	95.20
120.90	30.30	31.25
81.90	26.50	27.14

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42146.d
Acq On : 13 Dec 2022 7:46 pm
Operator : joannel
Sample : ECC1696-5
Misc : MS53004,V1A1697,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 13 22:50:01 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42146.d\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 1344.06ug/L

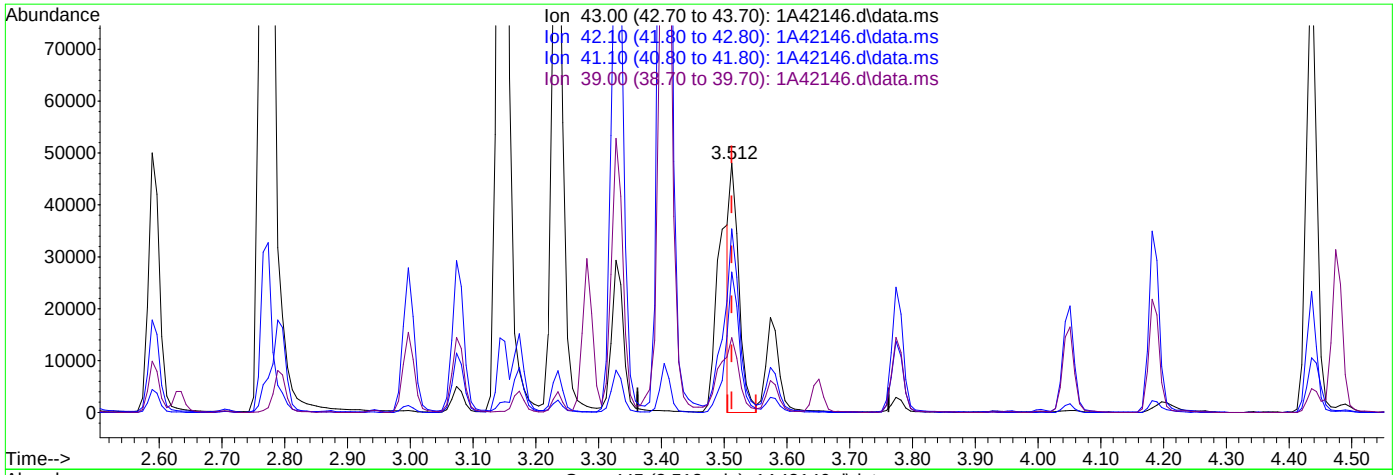
response 96849

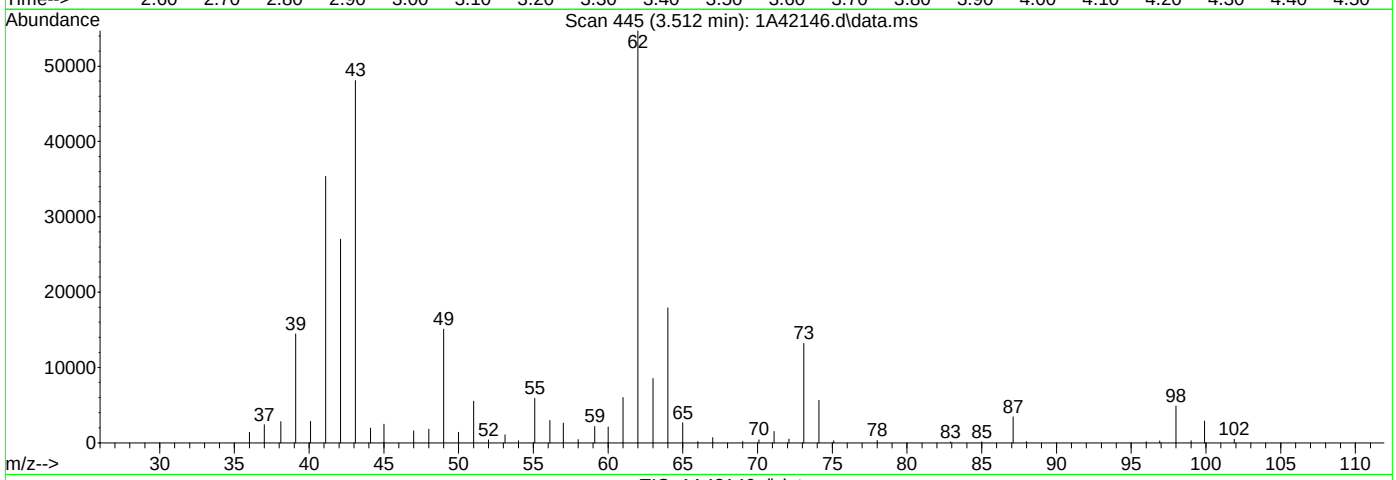
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	56.45
41.10	71.70	71.23
39.00	29.20	28.65

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42146.d
Acq On : 13 Dec 2022 7:46 pm
Operator : joannel
Sample : ECC1696-5
Misc : MS53004,V1A1697,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 13 22:50:01 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42146.d\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 710.81ug/L m

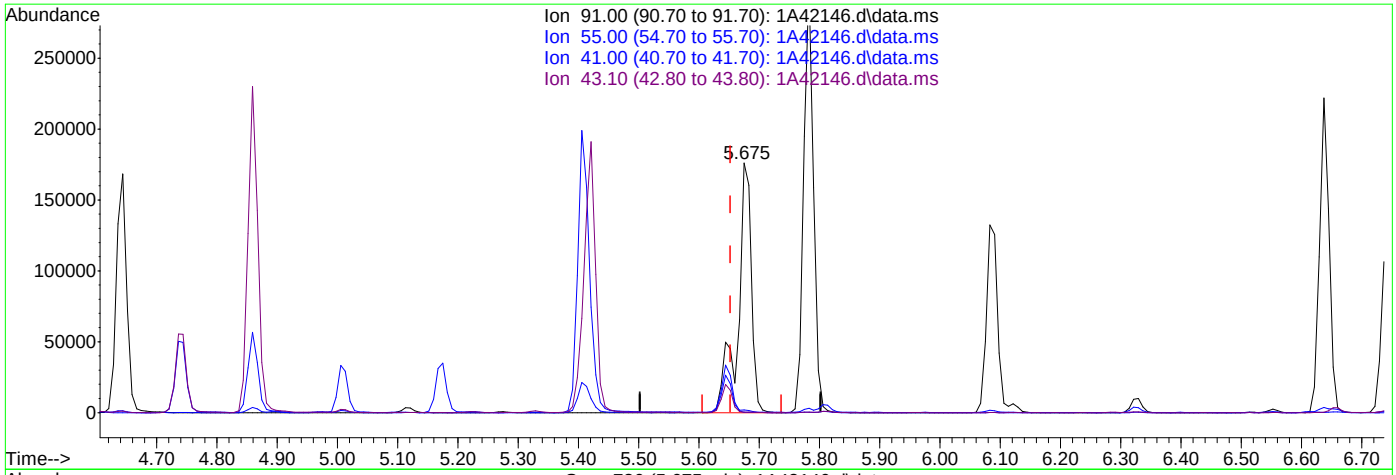
response 48976

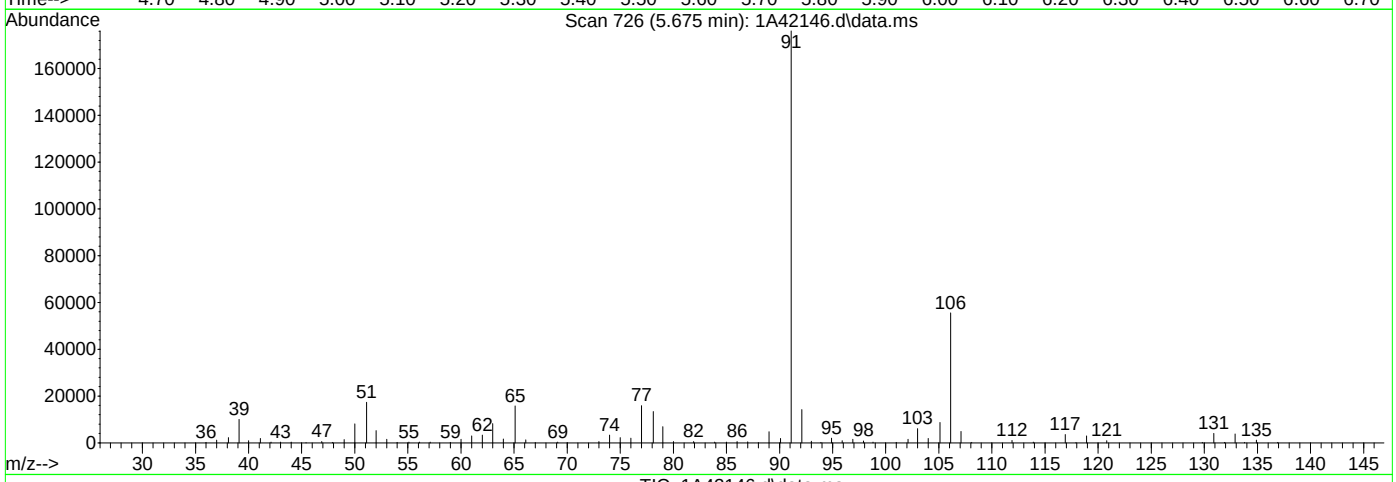
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	56.23
41.10	71.70	73.57
39.00	29.20	30.02

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42146.d
Acq On : 13 Dec 2022 7:46 pm
Operator : joannel
Sample : ECC1696-5
Misc : MS53004,V1A1697,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 13 22:50:01 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42146.d\data.ms

(76) 1-Chlorohexane

5.675min (+0.023) 143.11ug/L

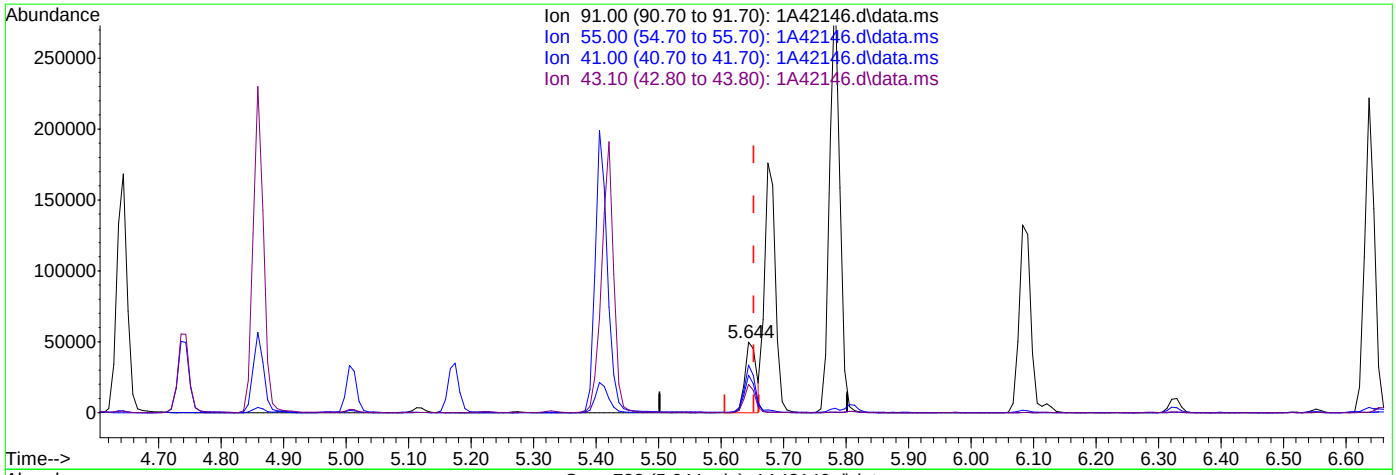
response 277430

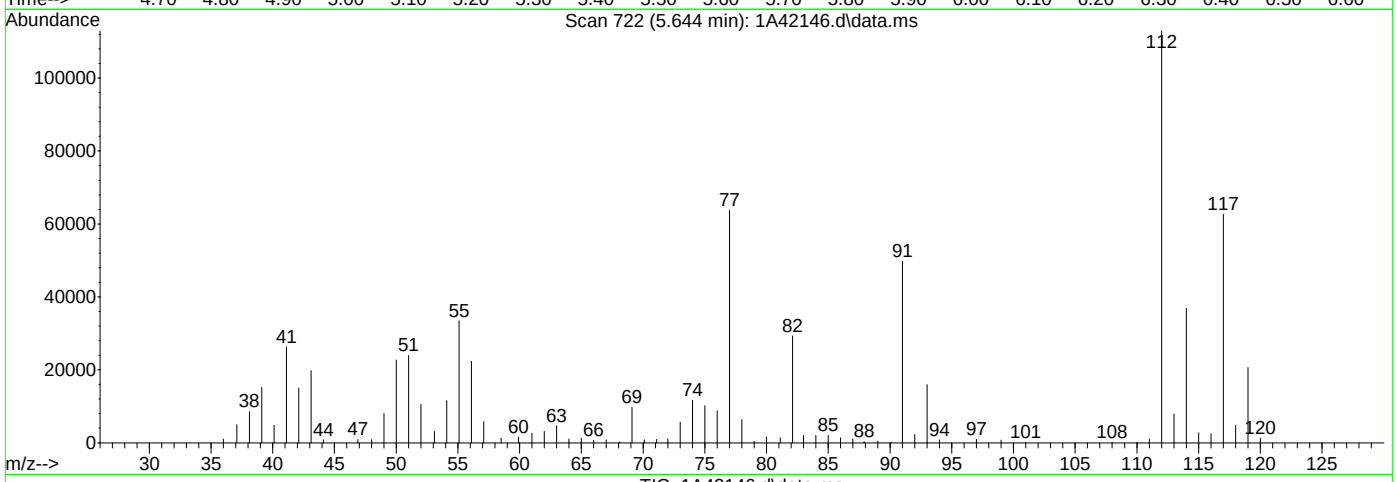
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	0.20#
41.00	48.10	0.92#
43.10	37.30	0.15#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42146.d
Acq On : 13 Dec 2022 7:46 pm
Operator : joannel
Sample : ECC1696-5
Misc : MS53004,V1A1697,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 13 22:50:01 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42146.d\data.ms

(76) 1-Chlorohexane

5.644min (-0.008) 32.67ug/L m

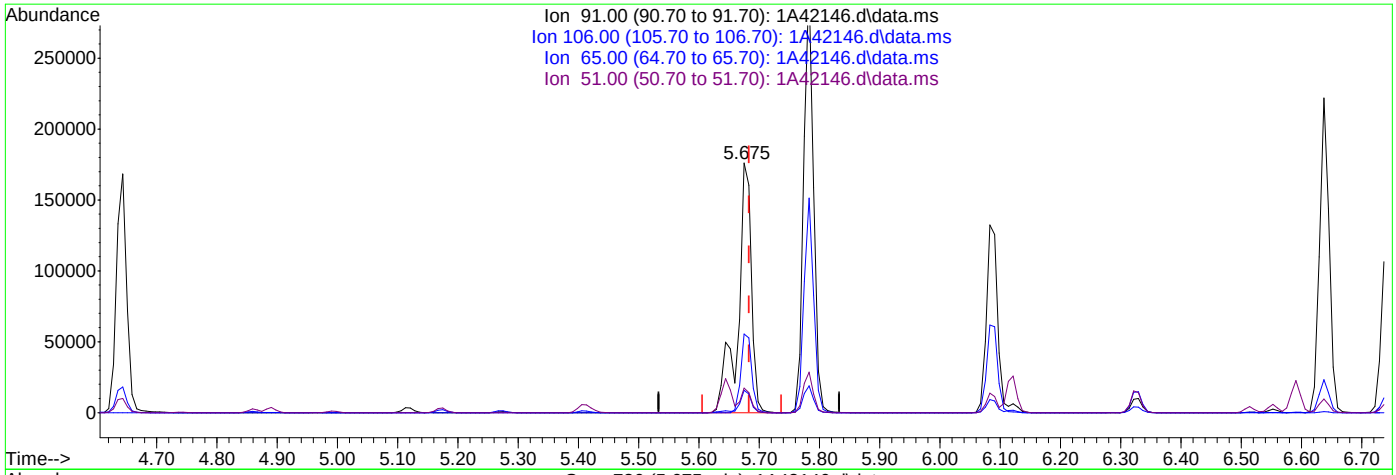
response 63327

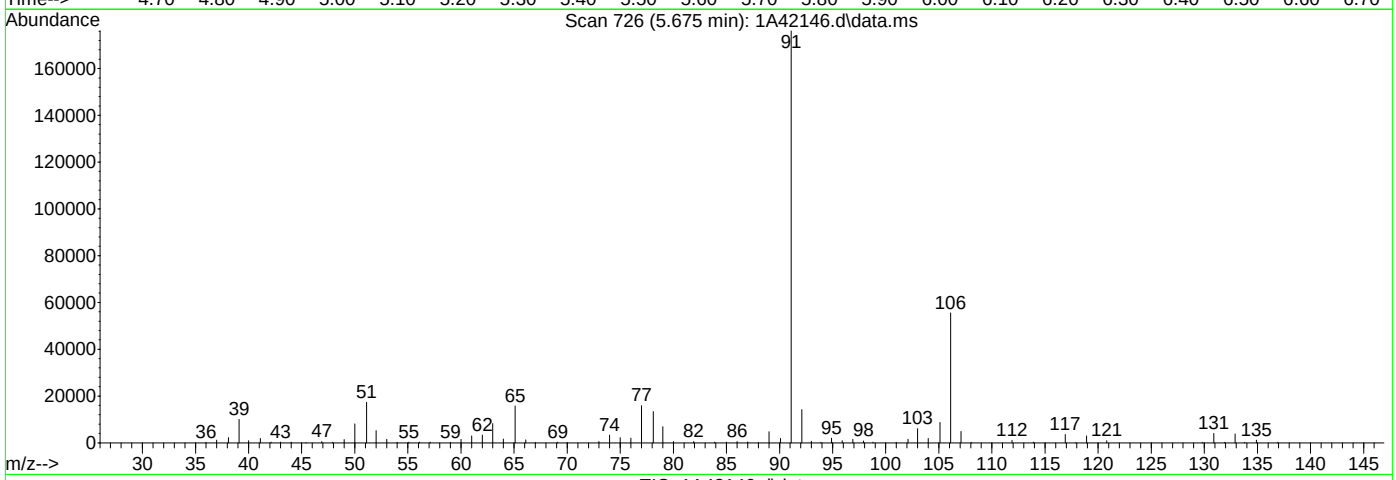
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	67.29
41.00	48.10	52.84
43.10	37.30	39.79

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42146.d
Acq On : 13 Dec 2022 7:46 pm
Operator : joannel
Sample : ECC1696-5
Misc : MS53004,V1A1697,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 13 22:50:01 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42146.d\data.ms

(77) Ethylbenzene (C)

5.675min (-0.008) 43.75ug/L

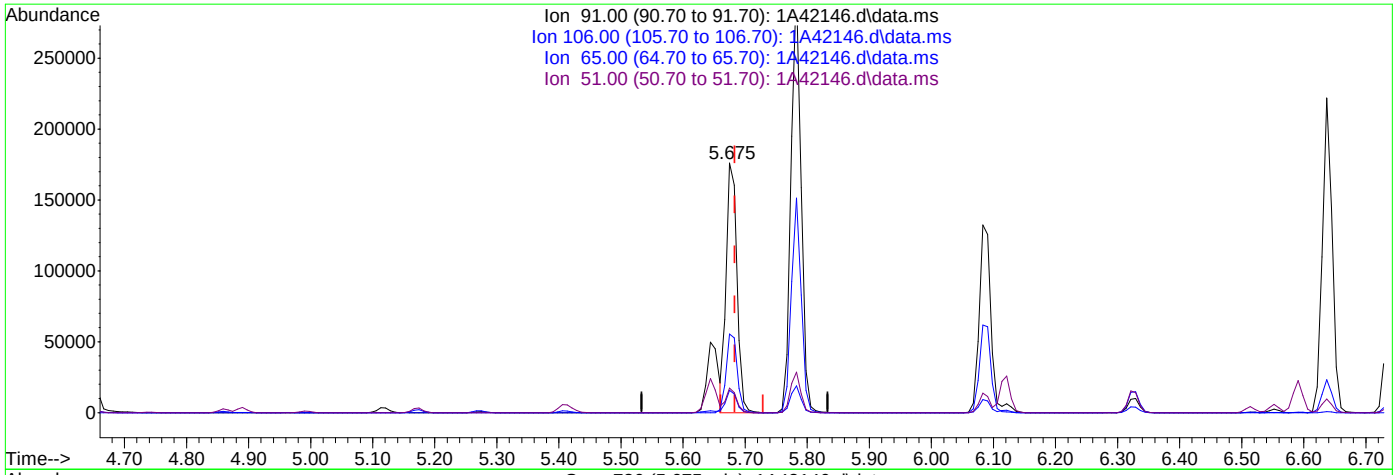
response 277430

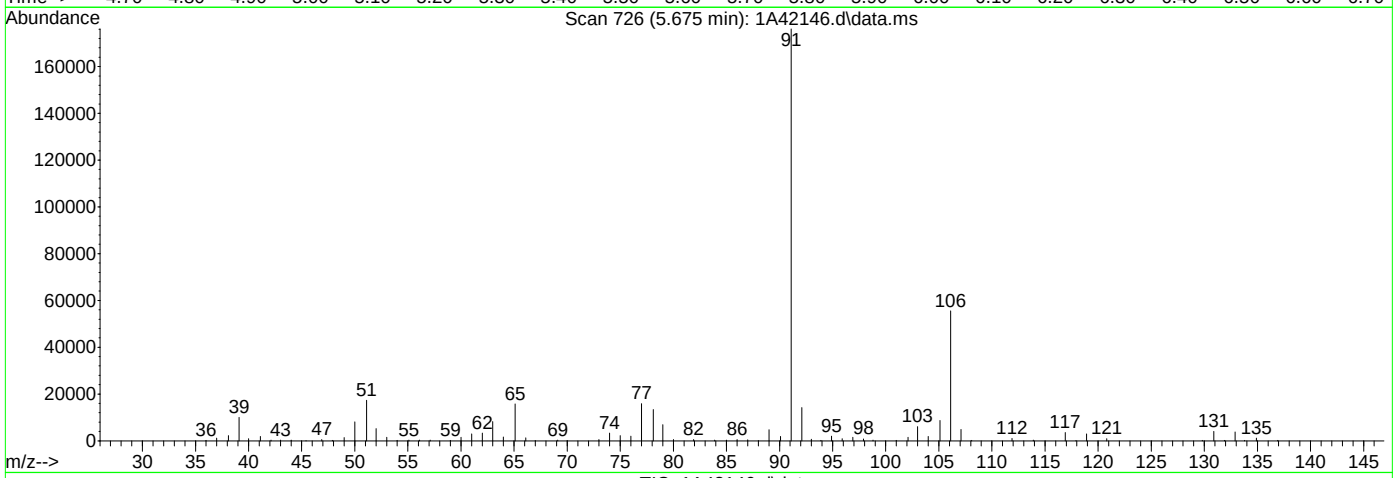
Ion	Exp%	Act%
91.00	100	100
106.00	32.70	31.53
65.00	8.50	8.98
51.00	9.00	9.86

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V1A1697\
Data File : 1A42146.d
Acq On : 13 Dec 2022 7:46 pm
Operator : joannel
Sample : ECC1696-5
Misc : MS53004,V1A1697,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 13 22:50:01 2022
Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42146.d\data.ms

(77) Ethylbenzene (C)

5.675min (-0.008) 33.76ug/L m

response 214102

Ion	Exp%	Act%
91.00	100	100
106.00	32.70	31.53
65.00	8.50	8.98
51.00	9.00	9.86

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/16/22 02:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42150.D
Acq On : 14 Dec 2022 10:08 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1698,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:07 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.651	96	237634	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.636	117	182659	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	94553	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.181	113	67194	44.07	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 88.14%				
49) 1,2-Dichloroethane-d4	3.474	65	76297	48.82	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.64%				
63) Toluene-d8	4.605	98	233205	50.76	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.52%				
86) 4-Bromofluorobenzene	6.514	174	80819	50.16	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.32%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.034	85	52803	31.66	ug/L		99
3) Chloromethane	1.165	50	43358	28.78	ug/L		100
4) 1,3-butadiene	1.226	39	39743	35.15	ug/L		93
5) Vinyl Chloride	1.211	62	49322	31.80	ug/L		100
6) Bromomethane	1.411	94	32266	32.49	ug/L		98
7) Chloroethane	1.480	64	18279	29.77	ug/L		98
8) Trichlorofluoromethane	1.580	101	80222	36.38	ug/L		100
9) Ethyl Ether	1.773	59	37286	33.65	ug/L		99
10) Ethanol	1.850	45	13032	584.14	ug/L		94
11) 1,2-Dichlorotrifluoroe...	1.873	67	58219	33.73	ug/L		98
12) 1,1-Dichloroethene	1.881	61	69497	34.01	ug/L		93
13) Freon 113	1.911	101	52683	36.65	ug/L		98
14) Carbon Disulfide	1.896	76	134553	33.13	ug/L		97
15) Iodomethane	1.958	142	56879	36.75	ug/L		100
16) Acrolein	2.050	56	52408	164.27	ug/L		97
17) Allyl chloride	2.142	41	58452	31.77	ug/L		98
18) Methylene Chloride	2.204	49	56299	31.39	ug/L		92
19) Acetone	2.212	43	79000	163.28	ug/L		99
20) Methyl acetate	2.296	43	195853	170.82	ug/L		100
21) trans-1,2-Dichloroethene	2.304	61	68339	33.73	ug/L		91
22) Hexane	2.373	56	39818m	34.29	ug/L		
23) Methyl Tert Butyl Ether	2.373	73	145839	34.60	ug/L		97
24) Acetonitrile	2.373	41	78843m	350.03	ug/L		
25) Tert Butyl Alcohol	2.404	59	88935	349.52	ug/L		99
26) Di-isopropyl ether	2.589	45	133336	34.18	ug/L		98
27) Chloroprene	2.635	53	158449	33.01	ug/L		99
28) 1,1-Dichloroethane	2.635	63	87111	33.98	ug/L		99
29) Acrylonitrile	2.635	52	96428	165.77	ug/L		95
30) ETBE	2.796	59	148673	35.40	ug/L		98
31) Vinyl acetate	2.773	43	458042	165.20	ug/L		99
32) cis-1,2-Dichloroethene	2.935	96	55495	34.34	ug/L		92
33) 2,2-Dichloropropane	2.997	77	80129	34.38	ug/L		99
34) Bromochloromethane	3.043	128	27552	36.17	ug/L	#	84
35) Cyclohexane	3.074	56	78329	34.48	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42150.D
Acq On : 14 Dec 2022 10:08 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1698,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:07 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Chloroform	3.081	83	96291	34.38	ug/L	98
37) Ethyl acetate	3.150	43	263353	170.70	ug/L	98
38) Tetrahydrofuran	3.174	42	18270	34.28	ug/L	97
40) Carbon Tetrachloride	3.181	117	73308m	35.23	ug/L	
41) 1,1,1-Trichloroethane	3.212	97	82526	35.20	ug/L	99
42) 2-Butanone	3.235	43	137746	157.41	ug/L	99
43) 1,1-Dichloropropene	3.281	75	71841	35.51	ug/L	99
44) tert-Butyl formate	3.328	59	211307	169.50	ug/L	99
45) Propionitrile	3.381	54	81817	322.39	ug/L	100
46) Methacrylonitrile	3.404	41	314768	338.71	ug/L	100
47) Benzene	3.420	78	205677	35.05	ug/L	98
48) TAME	3.497	73	142619	35.25	ug/L	98
50) 1,2-Dichloroethane	3.512	62	70877	34.64	ug/L	99
51) Isobutyl Alcohol	3.512	43	46249m	627.19	ug/L	
52) Tert Amyl Alcohol	3.574	59	72433	348.73	ug/L	99
53) Trichloroethene	3.759	95	58422	35.29	ug/L	99
54) Methylcyclohexane	3.774	83	91402	37.35	ug/L	99
55) Dibromomethane	3.989	93	35282	34.85	ug/L	100
56) 1,2-Dichloropropane	4.051	63	50880	34.33	ug/L	99
57) Bromodichloromethane	4.089	83	68706	34.98	ug/L	99
58) Methyl methacrylate	4.182	41	44085	32.59	ug/L	98
59) 1,4-Dioxane	4.205	88	14156	683.15	ug/L	98
60) 2-Chloroethyl vinyl ether	4.436	63	174625	173.77	ug/L	99
61) cis-1,3-Dichloropropene	4.474	75	83982	35.43	ug/L	99
64) Toluene	4.644	91	221167	36.05	ug/L	100
65) 2-Nitropropane	4.736	41	76581	187.94	ug/L	97
66) 4-Methyl-2-pentanone	4.859	43	275214	161.64	ug/L	99
67) trans-1,3-Dichloropropene	4.890	75	73102	37.06	ug/L	100
68) Tetrachloroethene	4.905	166	65588	38.89	ug/L	98
69) Ethyl methacrylate	5.013	69	64734	35.19	ug/L	91
70) 1,1,2-Trichloroethane	4.990	83	40636	37.09	ug/L	98
71) Dibromochloromethane	5.121	129	55965	38.35	ug/L	99
72) 1,3-Dichloropropane	5.175	76	80806	36.98	ug/L	99
73) 1,2-Dibromoethane	5.275	107	53517	37.49	ug/L	100
74) 3,3-Dimethyl-1-Butanol	5.406	57	375282	1716.22	ug/L	100
75) 2-hexanone	5.421	43	263959	165.12	ug/L	100
76) 1-Chlorohexane	5.652	91	72634m	36.34	ug/L	
77) Ethylbenzene	5.683	91	241277m	36.90	ug/L	
78) Chlorobenzene	5.644	112	145999	37.79	ug/L	97
79) 1,1,1,2-Tetrachloroethane	5.690	131	53243	38.65	ug/L	99
80) m,p-Xylene	5.783	91	380031	73.83	ug/L	100
81) o-Xylene	6.090	91	193635	36.41	ug/L	99
82) Styrene	6.121	104	153459	37.41	ug/L	100
83) Bromoform	6.121	173	38169	38.88	ug/L	99
84) Isopropylbenzene	6.329	105	234781	37.45	ug/L	99
87) cis-1,4-Dichloro-2-butene	6.552	53	18656	31.96	ug/L	93
88) n-Propylbenzene	6.637	91	278830	37.87	ug/L	100
89) Bromobenzene	6.591	156	64485	39.13	ug/L	97
90) 1,1,2,2-Tetrachloroethane	6.660	83	67769	37.17	ug/L	100
91) 1,3,5-Trimethylbenzene	6.791	105	201920	37.67	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42150.D
Acq On : 14 Dec 2022 10:08 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1698,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:07 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

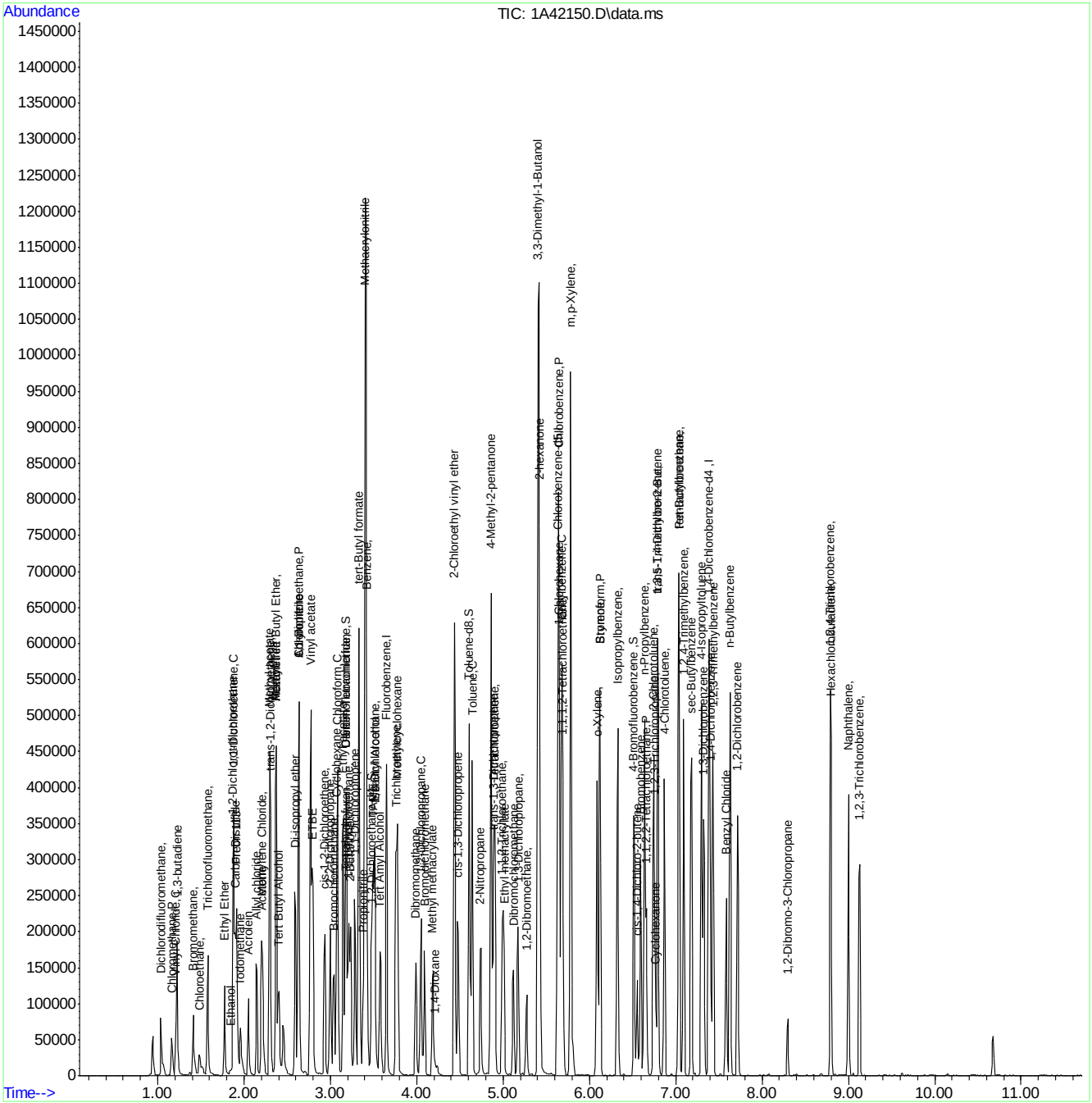
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.745	91	160004	37.39	ug/L		100
93)	trans-1,4-Dichloro-2-B...	6.791	53	21939	34.30	ug/L		96
94)	1,2,3-Trichloropropane	6.752	110	20759	37.70	ug/L		86
95)	Cyclohexanone	6.768	55	12271	173.92	ug/L		98
96)	4-Chlorotoluene	6.868	91	166004	37.13	ug/L		99
97)	tert-Butylbenzene	7.037	91	112065	36.96	ug/L		99
98)	1,2,4-Trimethylbenzene	7.091	105	194840	38.02	ug/L		99
99)	Pentachloroethane	7.037	167	32899	38.63	ug/L		92
100)	sec-Butylbenzene	7.183	105	241281	38.31	ug/L		99
101)	4-Isopropyltoluene	7.299	119	213846	38.50	ug/L		99
102)	1,3-Dichlorobenzene	7.322	146	113821	38.35	ug/L		96
103)	1,2,3-Trimethylbenzene	7.430	105	186547	37.80	ug/L		100
104)	1,4-Dichlorobenzene	7.399	146	115311	37.86	ug/L		98
105)	n-Butylbenzene	7.630	92	107782	38.55	ug/L		98
106)	Benzyl Chloride	7.584	126	27520	38.71	ug/L	#	90
107)	1,2-Dichlorobenzene	7.714	146	105007	38.01	ug/L		98
108)	1,2-Dibromo-3-Chloropr...	8.299	75	12923	36.42	ug/L		96
109)	Hexachlorobutadiene	8.800	225	39873	38.90	ug/L		98
110)	1,2,4-Trichlorobenzene	8.792	180	73232	38.24	ug/L		99
111)	Naphthalene	9.000	128	191423	36.40	ug/L		99
112)	1,2,3-Trichlorobenzene	9.131	180	67169	37.11	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42150.D
Acq On : 14 Dec 2022 10:08 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1698,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:28:07 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



Manual Integration Approval Summary

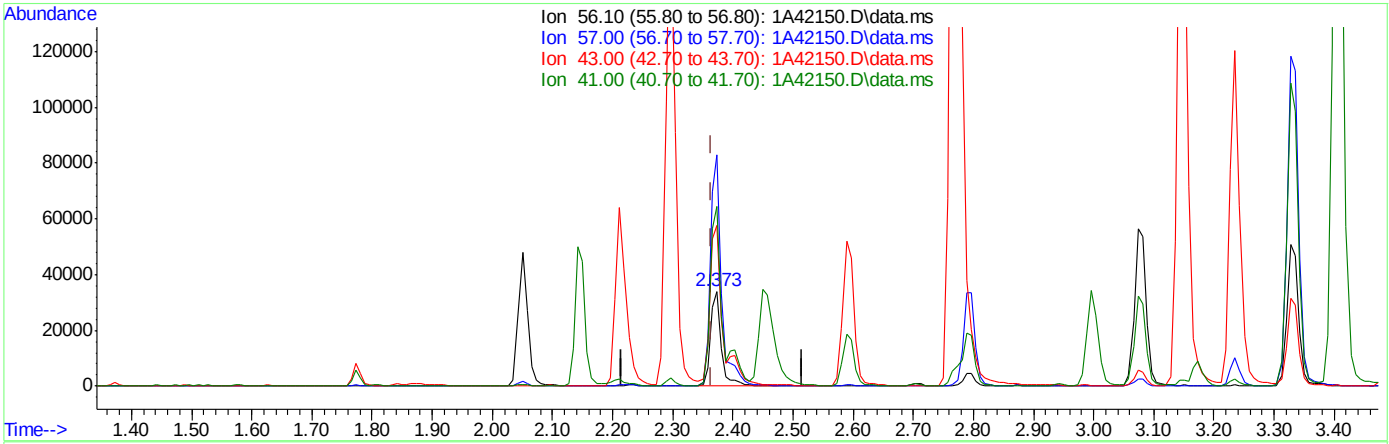
Sample Number: V1A1698-CC1696 **Method:** SW846 8260D
Lab FileID: 1A42150.D **Analyst approved:** 12/14/22 10:51 Jo-Ann Lugo De Jesus
Injection Time: 12/14/22 10:08 **Supervisor approved:** 12/16/22 02:57 Jennifer Fereira

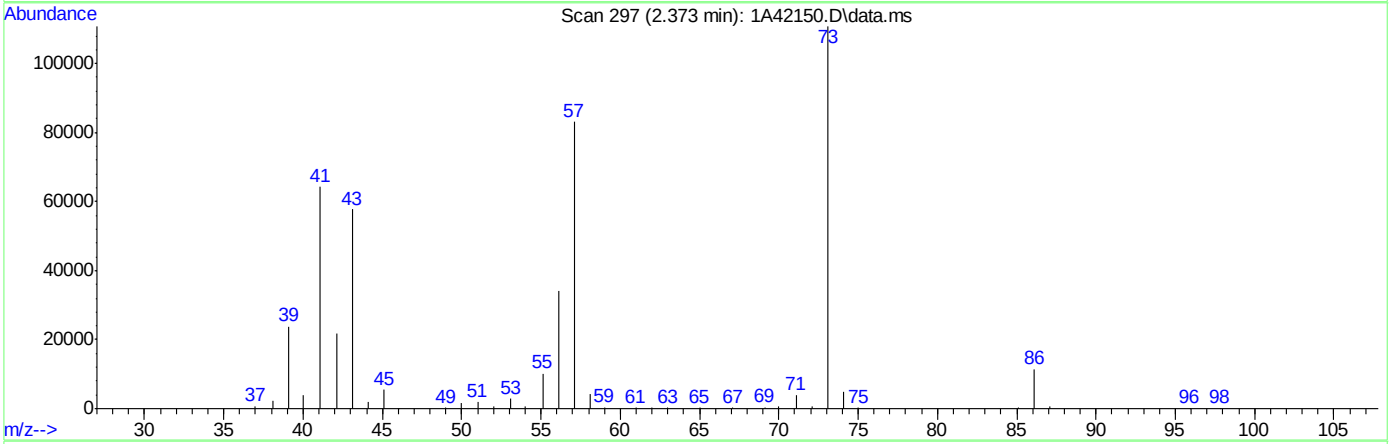
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		2.37	Overlapping peak
Acetonitrile	75-05-8		2.37	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.18	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration
Ethylbenzene	100-41-4		5.68	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42150.D
Acq On : 14 Dec 2022 10:08 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1698,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:26:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42150.D\data.ms

(22) Hexane

2.373min (+0.008) 36.78ug/L

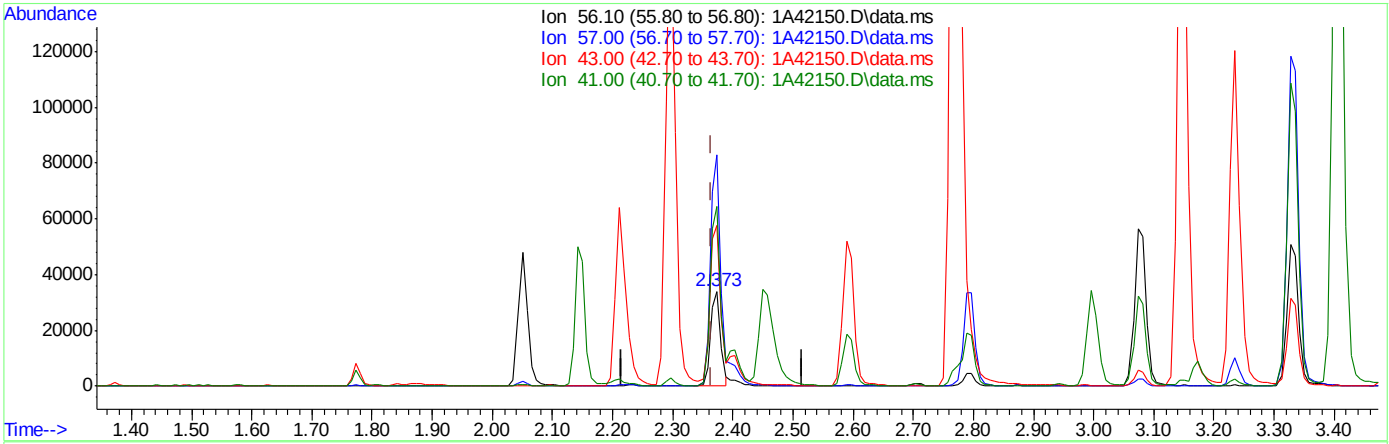
response 42710

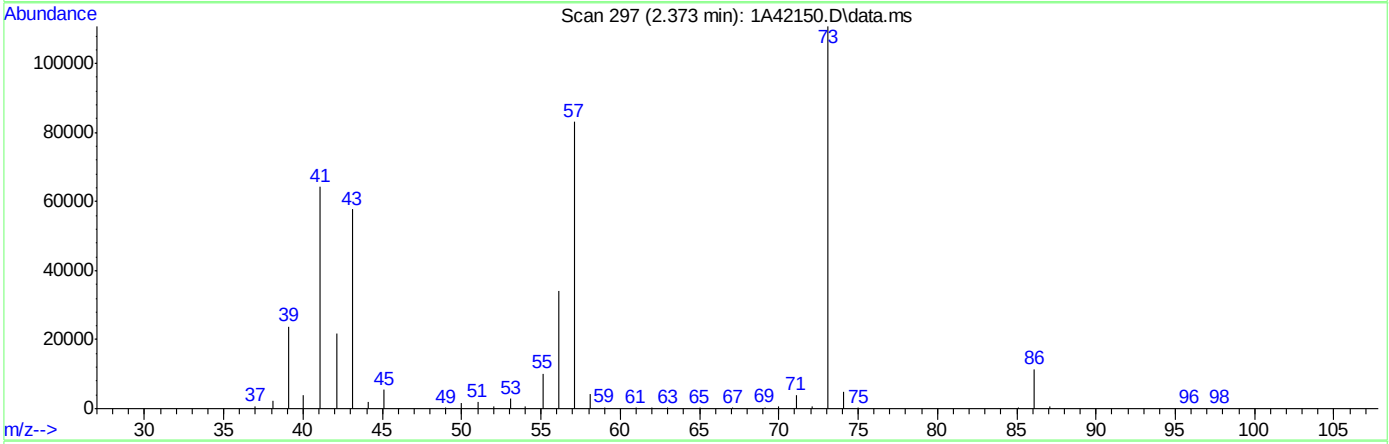
Ion	Exp%	Act%
56.10	100	100
57.00	243.90	244.53
43.00	181.70	168.56
41.00	193.40	188.77

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42150.D
Acq On : 14 Dec 2022 10:08 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1698,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:26:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42150.D\data.ms

(22) Hexane

2.373min (+0.008) 34.29ug/L m

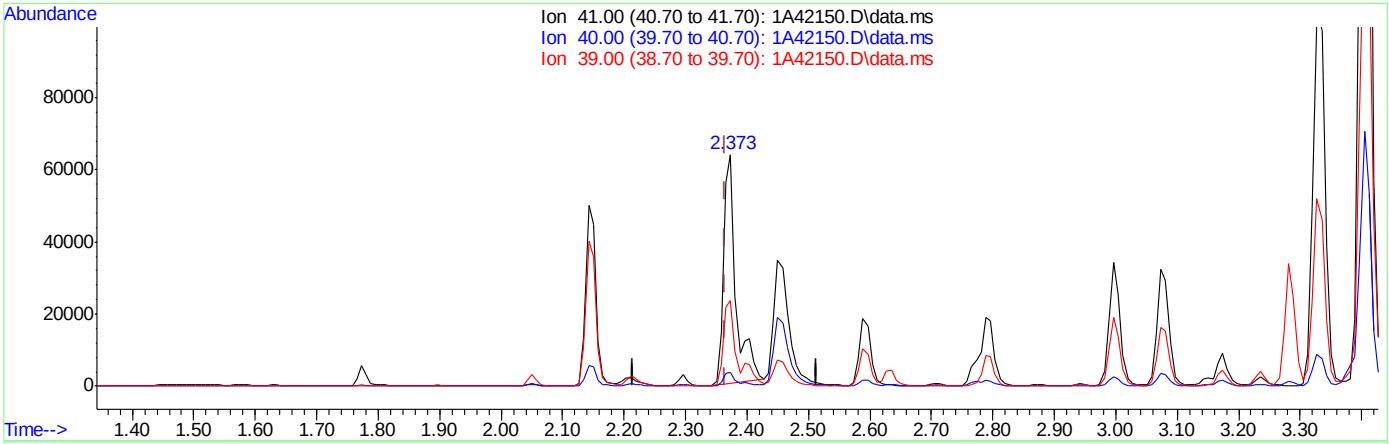
response 39818

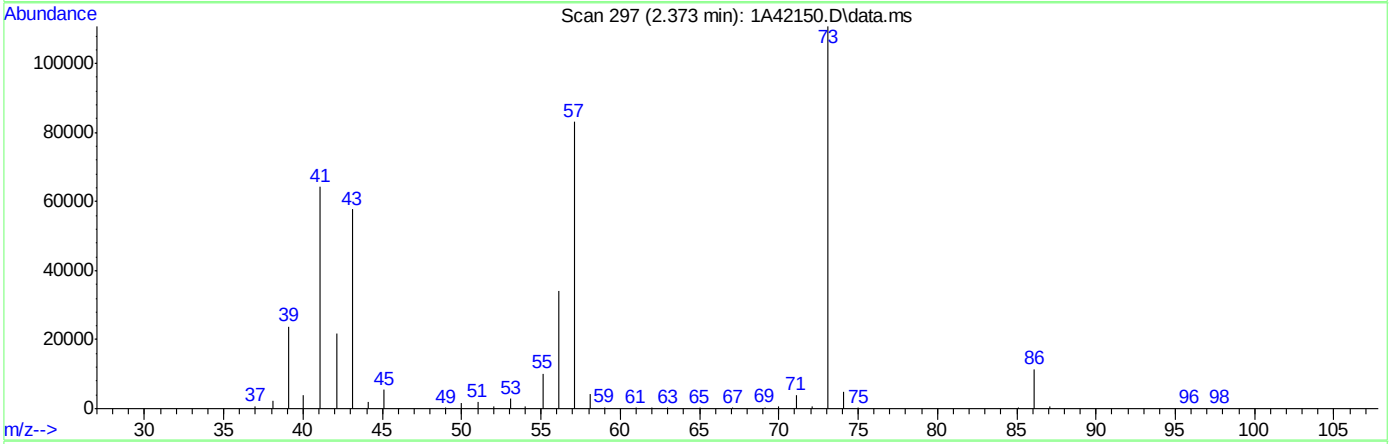
Ion	Exp%	Act%
56.10	100	100
57.00	243.90	244.53
43.00	181.70	169.93
41.00	193.40	189.19

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42150.D
Acq On : 14 Dec 2022 10:08 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1698,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:26:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42150.D\data.ms

(24) Acetonitrile

2.373min (+0.008) 403.60ug/L

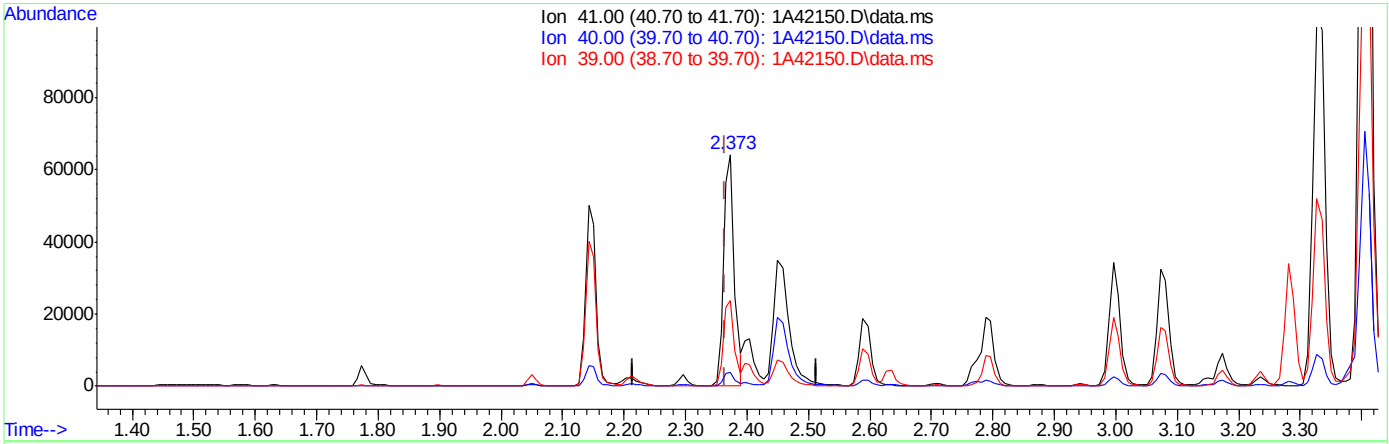
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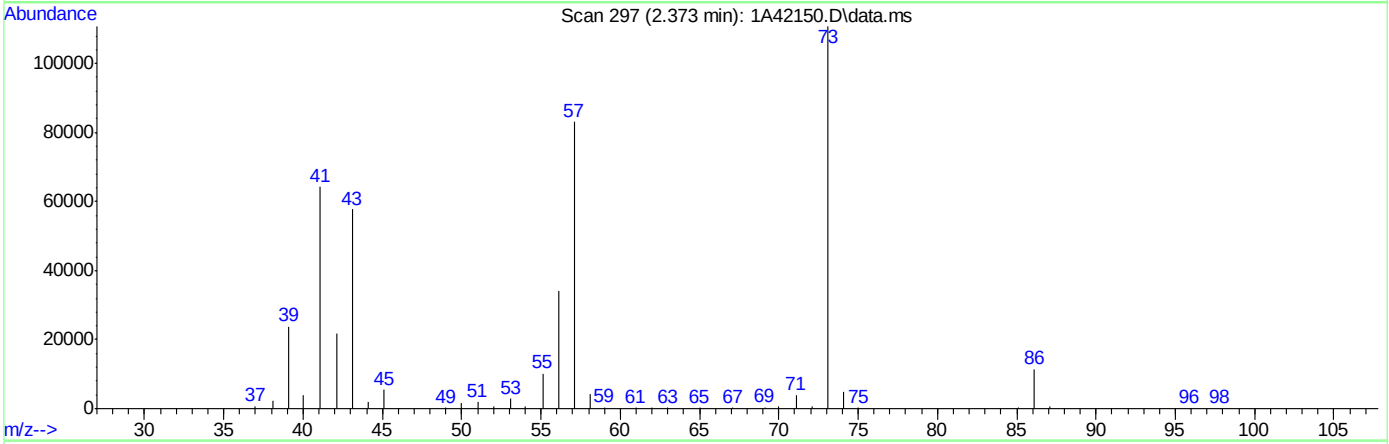
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	5.81
39.00	37.60	36.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42150.D
Acq On : 14 Dec 2022 10:08 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1698,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:26:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42150.D\data.ms

(24) Acetonitrile

2.373min (+0.008) 350.03ug/L m

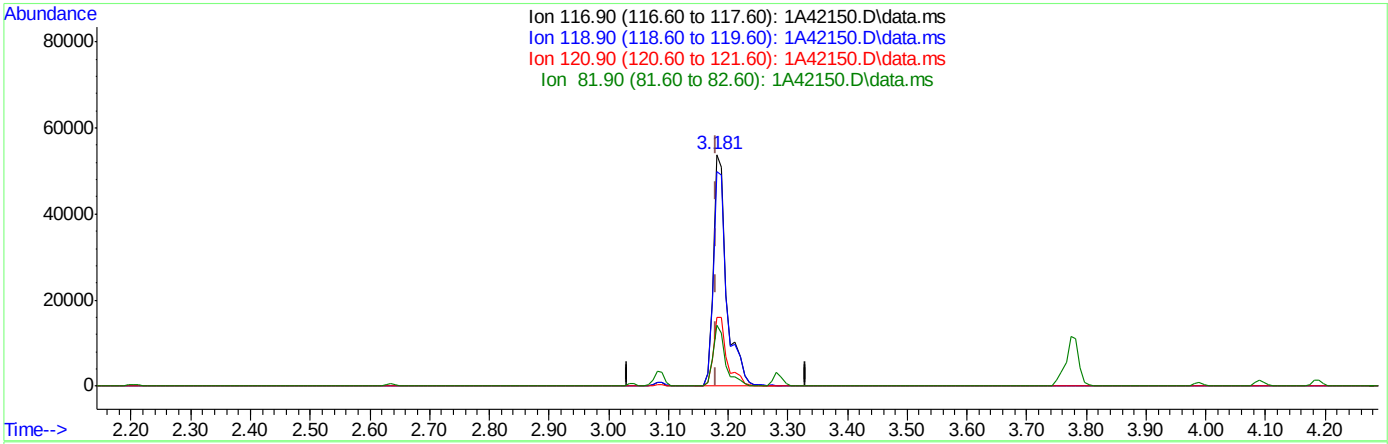
response 78843

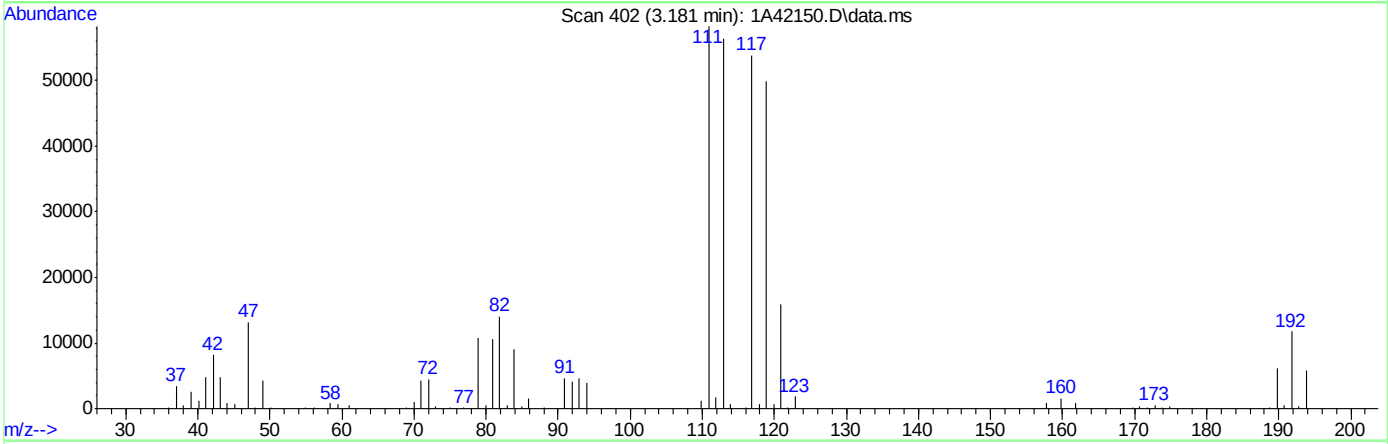
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.03
39.00	37.60	36.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42150.D
Acq On : 14 Dec 2022 10:08 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1698,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:26:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42150.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 40.11ug/L

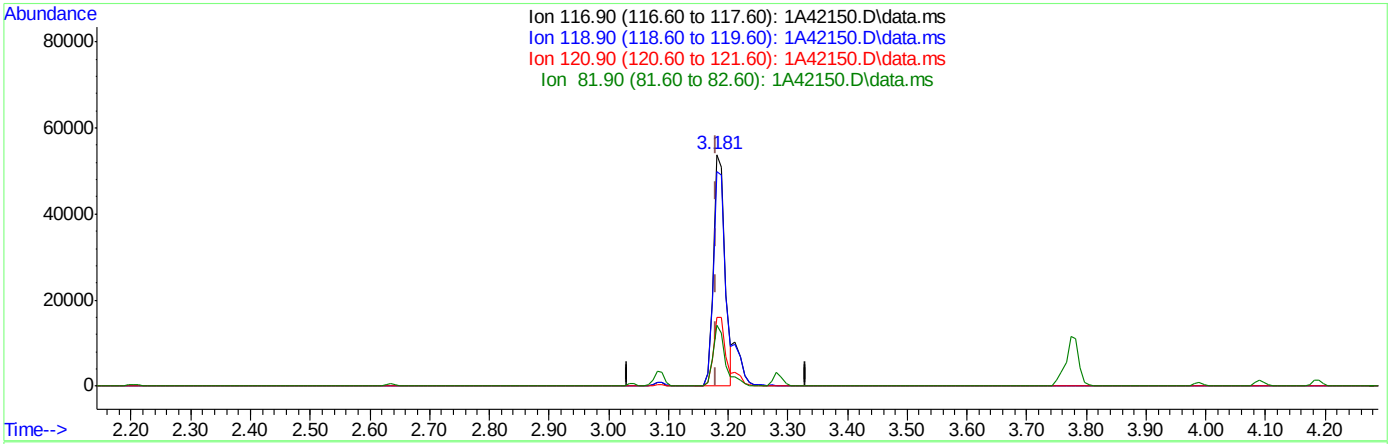
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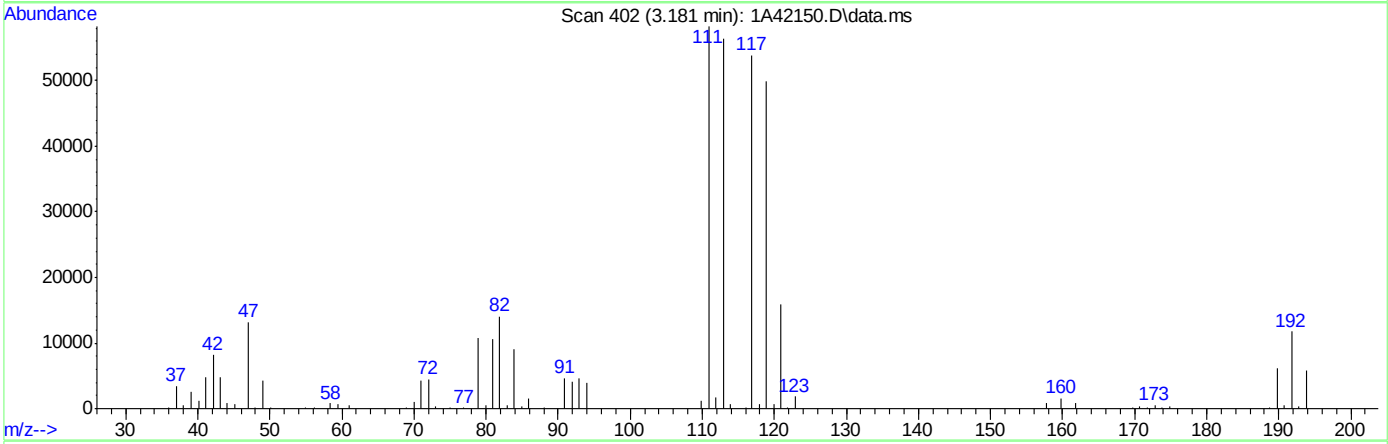
Ion	Exp%	Act%
116.90	100	100
118.90	95.70	92.73
120.90	30.30	29.58
81.90	26.50	26.14

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42150.D
Acq On : 14 Dec 2022 10:08 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1698,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:26:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42150.D\data.ms

(40) Carbon Tetrachloride ( )

3.181min (+0.000) 35.23ug/L m

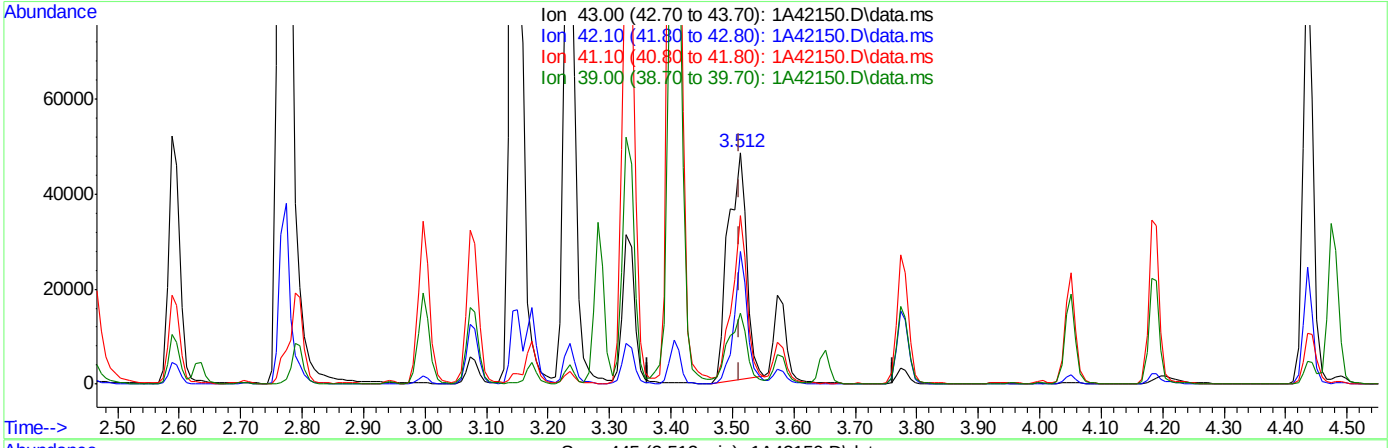
response 73308

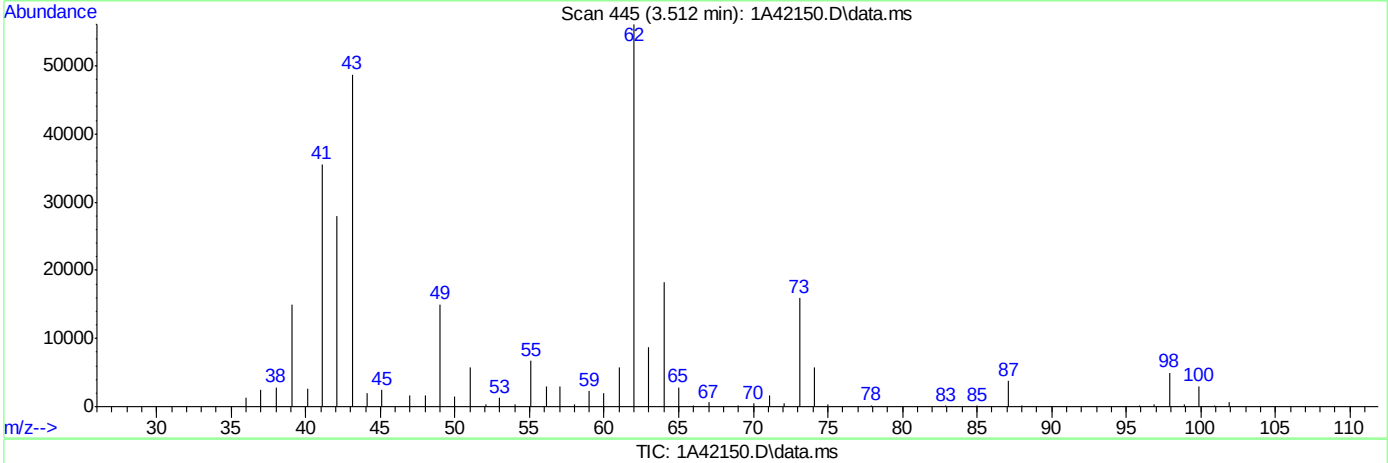
Ion	Exp%	Act%
116.90	100	100
118.90	95.70	92.73
120.90	30.30	29.58
81.90	26.50	26.14

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42150.D
Acq On : 14 Dec 2022 10:08 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1698,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:26:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42150.D\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 1290.62ug/L

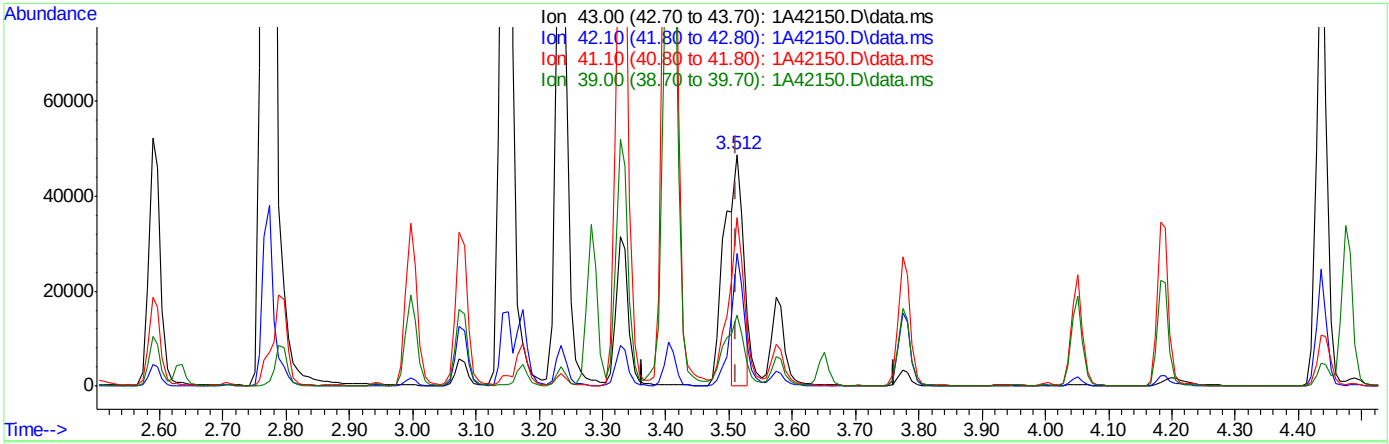
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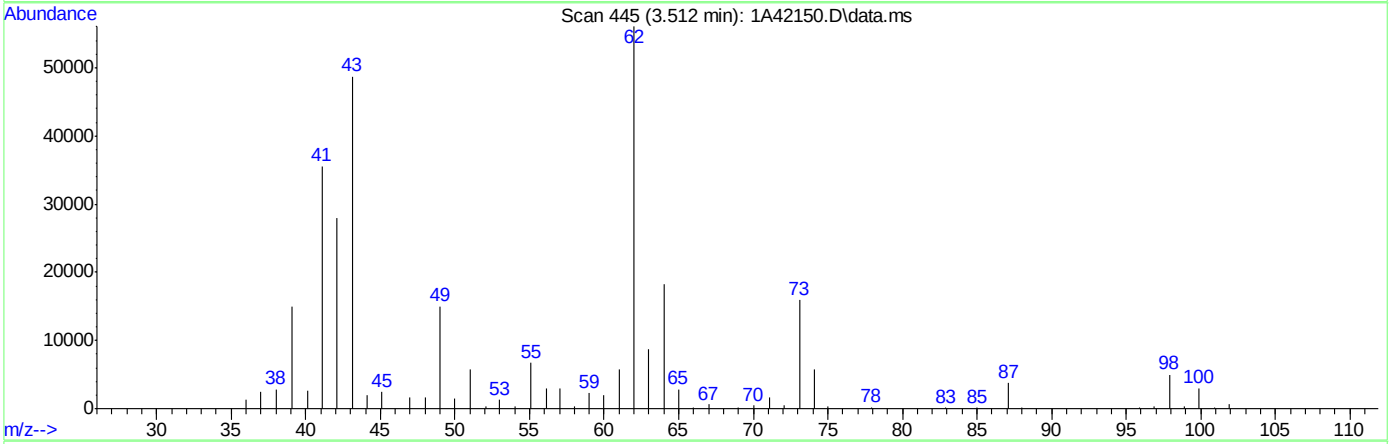
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	57.30
41.10	71.70	70.38
39.00	29.20	29.27

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42150.D
Acq On : 14 Dec 2022 10:08 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1698,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:26:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42150.D\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 627.19ug/L m

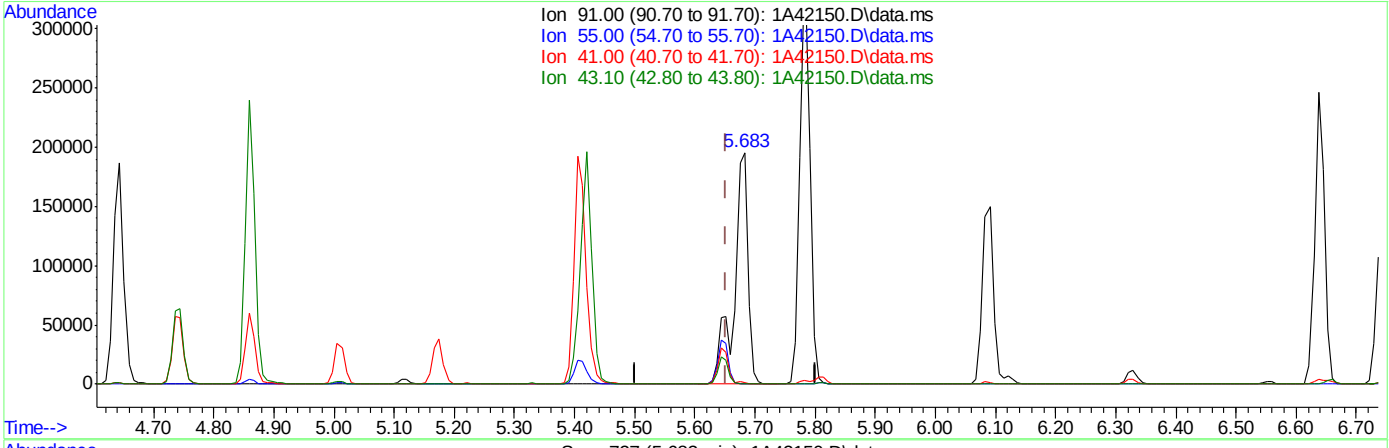
response 46249

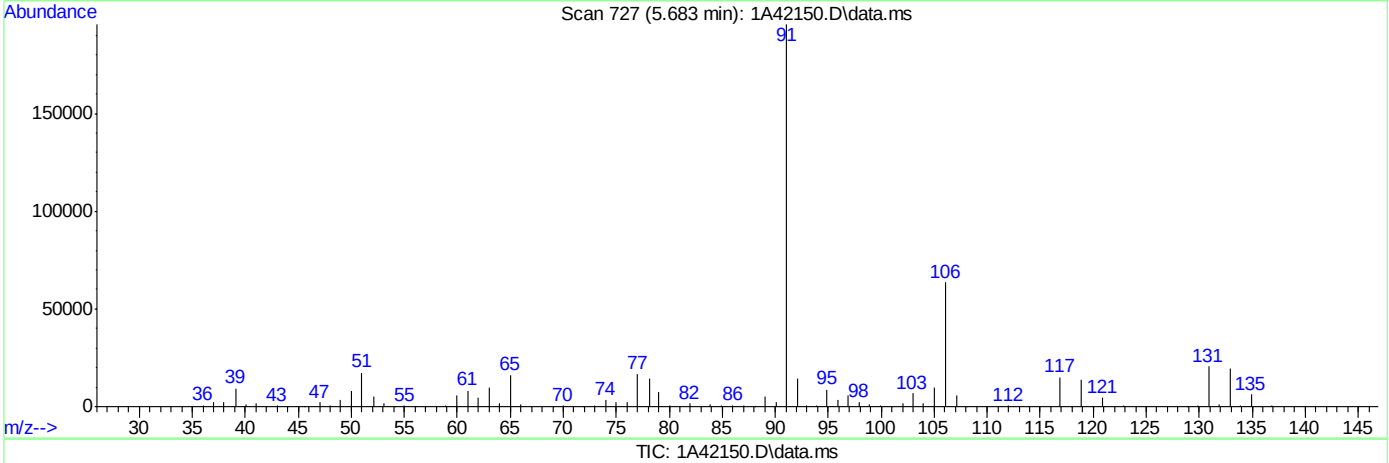
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	57.36
41.10	71.70	72.94
39.00	29.20	30.72

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42150.D
Acq On : 14 Dec 2022 10:08 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1698,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:26:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42150.D\data.ms

(76) 1-Chlorohexane

5.683min (+0.031) 157.11ug/L

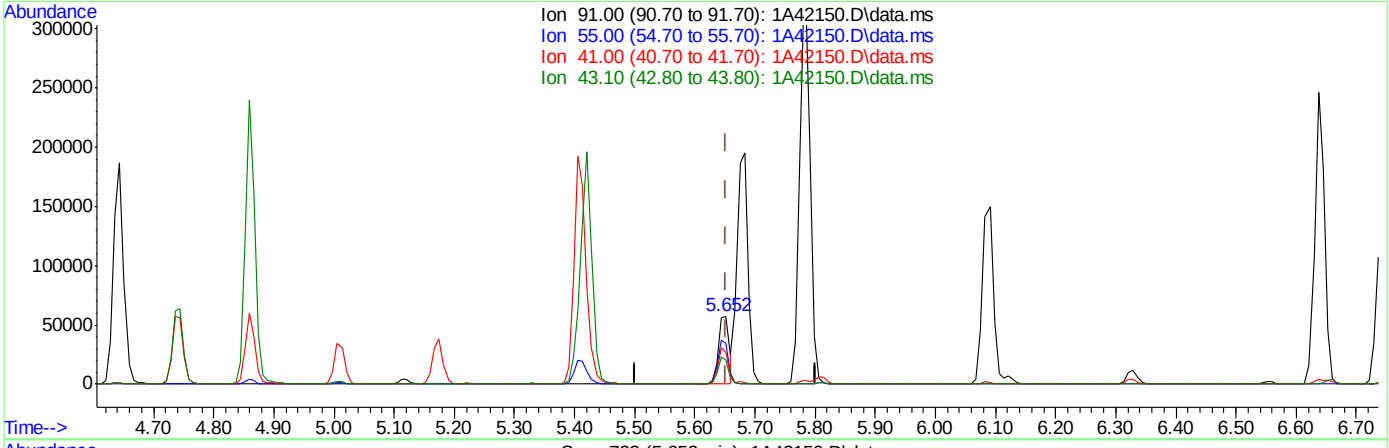
response 314042

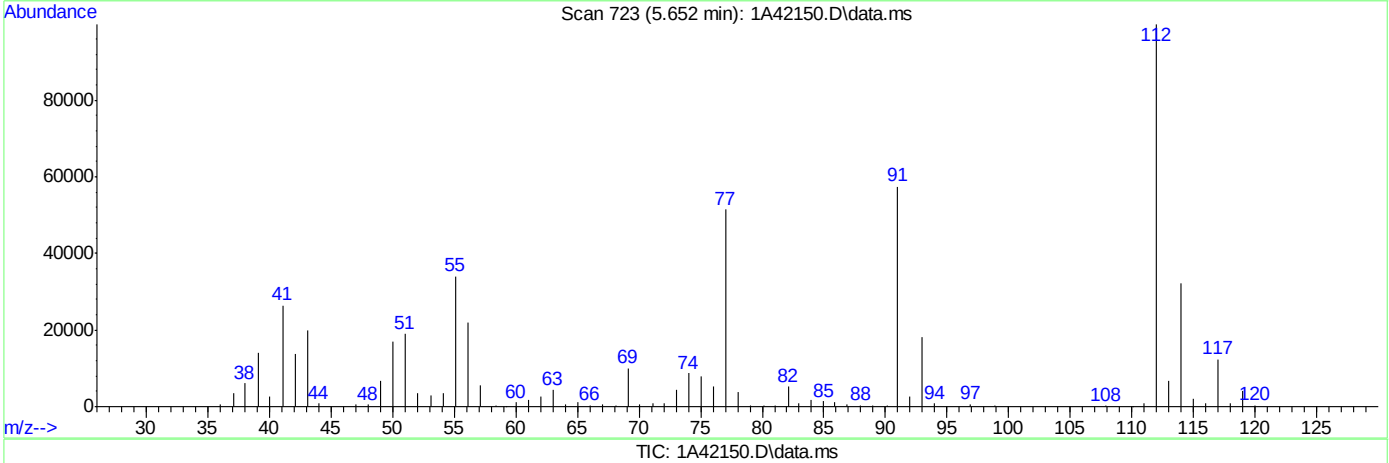
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	0.19#
41.00	48.10	0.76#
43.10	37.30	0.11#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42150.D
Acq On : 14 Dec 2022 10:08 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1698,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:26:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42150.D\data.ms

(76) 1-Chlorohexane

5.652min (-0.000) 36.34ug/L m

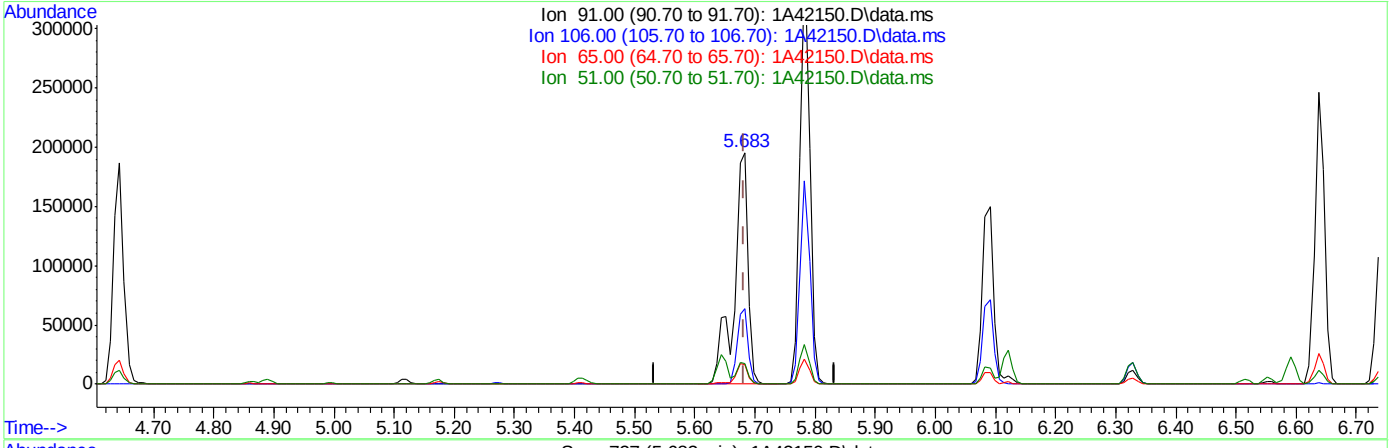
response 72634

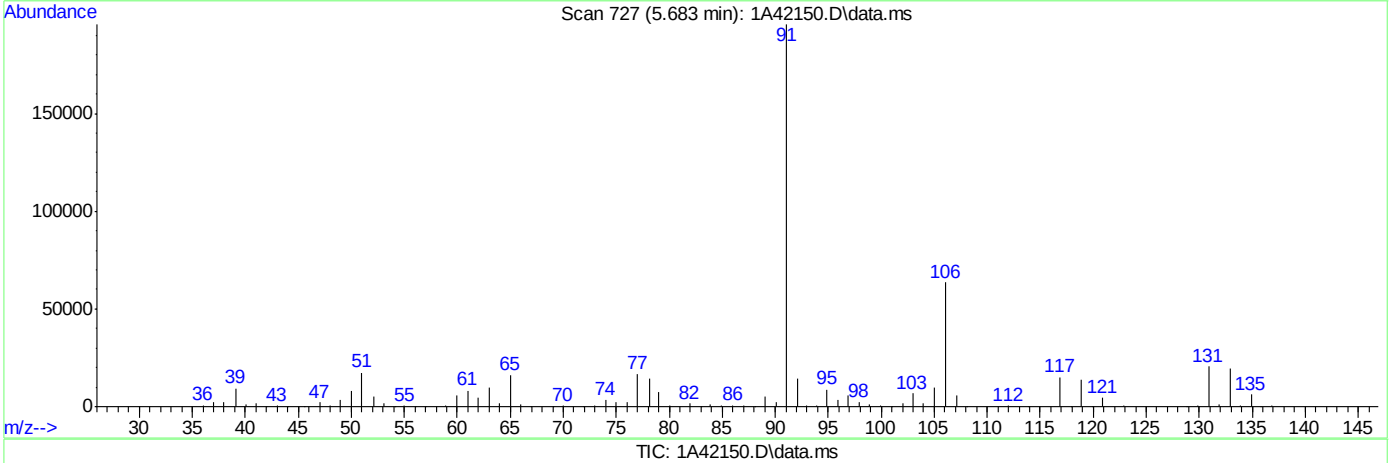
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	59.22
41.00	48.10	46.04
43.10	37.30	34.69

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42150.D
Acq On : 14 Dec 2022 10:08 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1698,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:26:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42150.D\data.ms

(77) Ethylbenzene (C)

5.683min (-0.000) 48.03ug/L

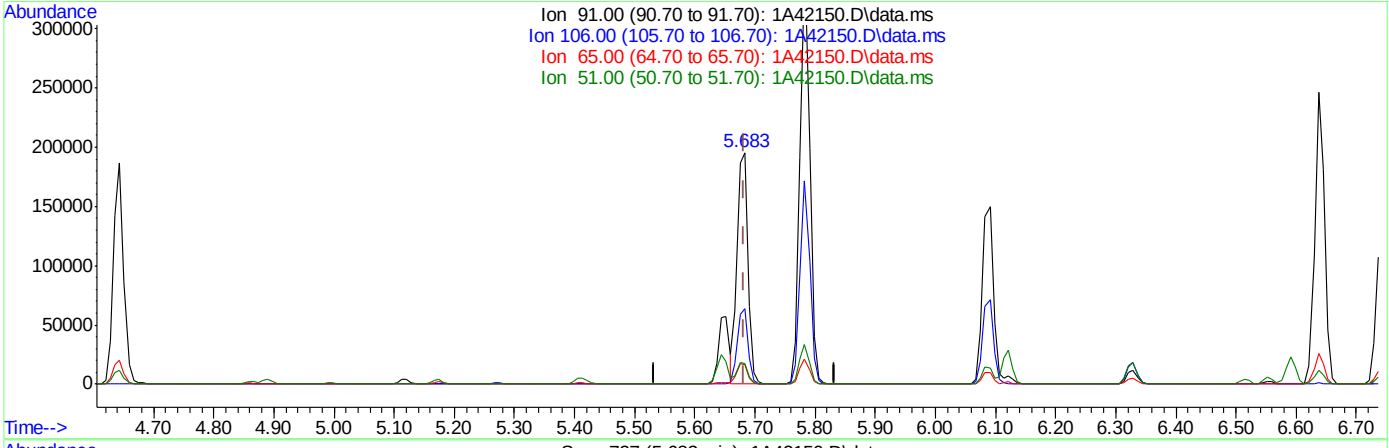
response 314042

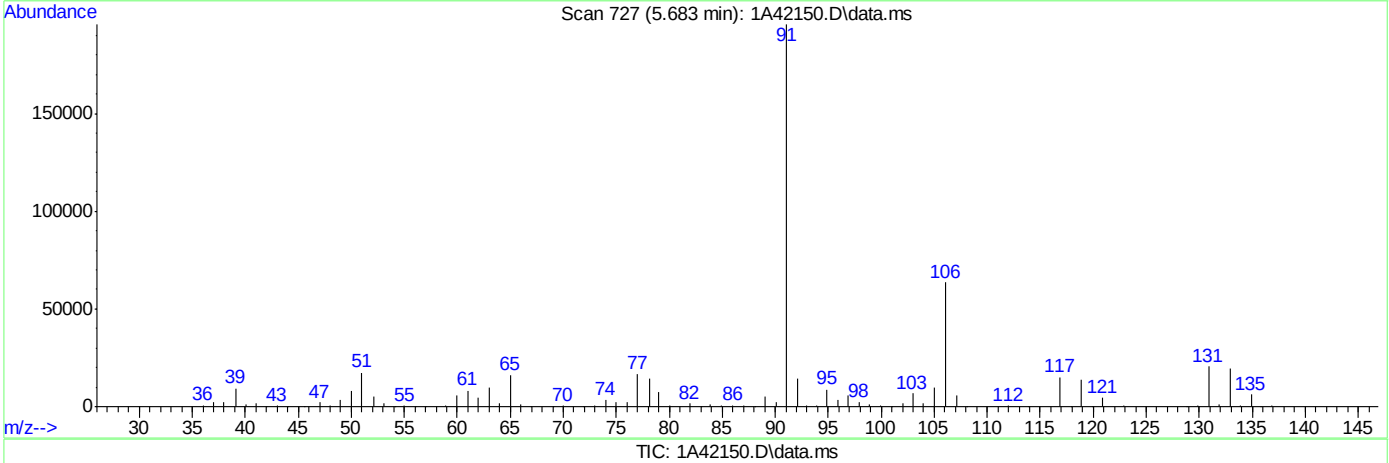
Ion	Exp%	Act%
91.00	100	100
106.00	32.70	32.53
65.00	8.50	8.30
51.00	9.00	8.81

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-14-2022\
Data File : 1A42150.D
Acq On : 14 Dec 2022 10:08 am
Operator : joannel
Sample : CC1696-5
Misc : MS52217,V1A1698,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 14 10:26:24 2022
Quant Method : C:\msdchem\1\METHODS\V1A_12-12-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42150.D\data.ms

(77) Ethylbenzene (C)

5.683min (-0.000) 36.90ug/L m

response 241277

Ion	Exp%	Act%
91.00	100	100
106.00	32.70	32.53
65.00	8.50	8.30
51.00	9.00	8.81

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/16/22 02:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42165.d
Acq On : 14 Dec 2022 4:04 pm
Operator : joannel
Sample : ECC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1698,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:54:44 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	240183	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	179815	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	92346	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	66574	43.20	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 86.40%			
49) 1,2-Dichloroethane-d4	3.474	65	77058	48.78	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.56%			
63) Toluene-d8	4.605	98	231640	51.22	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.44%			
86) 4-Bromofluorobenzene	6.514	174	80177	50.96	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.92%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	50496	29.96	ug/L	98
3) Chloromethane	1.165	50	40889	26.75	ug/L	100
4) 1,3-butadiene	1.226	39	37974	33.23	ug/L	94
5) Vinyl Chloride	1.211	62	45767	29.19	ug/L	99
6) Bromomethane	1.411	94	27505	26.93	ug/L	98
7) Chloroethane	1.488	64	16026	25.83	ug/L	98
8) Trichlorofluoromethane	1.580	101	74513	32.95	ug/L	99
9) Ethyl Ether	1.773	59	35659	31.84	ug/L	98
10) Ethanol	1.850	45	12620	559.67	ug/L	97
11) 1,2-Dichlorotrifluoroe...	1.880	67	54164	31.04	ug/L	95
12) 1,1-Dichloroethene	1.880	61	64355	31.16	ug/L	95
13) Freon 113	1.919	101	49585	34.13	ug/L	95
14) Carbon Disulfide	1.896	76	123156	30.00	ug/L	96
15) Iodomethane	1.957	142	54411	34.95	ug/L	98
16) Acrolein	2.050	56	47400	146.51	ug/L	98
17) Allyl chloride	2.150	41	53275	28.65	ug/L	96
18) Methylene Chloride	2.204	49	53598	29.45	ug/L	93
19) Acetone	2.211	43	77233	157.67	ug/L	97
20) Methyl acetate	2.296	43	187249	161.58	ug/L	100
21) trans-1,2-Dichloroethene	2.304	61	63350	30.94	ug/L	92
22) Hexane	2.373	56	35100m	29.91	ug/L	
23) Methyl Tert Butyl Ether	2.373	73	141917	33.32	ug/L	96
24) Acetonitrile	2.373	41	70434m	309.38	ug/L	
25) Tert Butyl Alcohol	2.404	59	84740	329.50	ug/L	98
26) Di-isopropyl ether	2.588	45	126266	32.02	ug/L	98
27) Chloroprene	2.635	53	149569	30.83	ug/L	99
28) 1,1-Dichloroethane	2.635	63	81183	31.33	ug/L	99
29) Acrylonitrile	2.635	52	92365	157.10	ug/L	95
30) ETBE	2.796	59	142601	33.60	ug/L	96
31) Vinyl acetate	2.773	43	430540	153.64	ug/L	99
32) cis-1,2-Dichloroethene	2.935	96	52487	32.13	ug/L	93
33) 2,2-Dichloropropane	2.996	77	72097	30.61	ug/L	99
34) Bromochloromethane	3.043	128	27144	35.26	ug/L #	84
35) Cyclohexane	3.081	56	72689	31.65	ug/L	94
36) Chloroform	3.081	83	91578	32.35	ug/L	99
37) Ethyl acetate	3.150	43	248912	159.63	ug/L	98
38) Tetrahydrofuran	3.173	42	17550	32.57	ug/L	98
40) Carbon Tetrachloride	3.189	117	66719m	31.72	ug/L	
41) 1,1,1-Trichloroethane	3.212	97	77351	32.64	ug/L	100
42) 2-Butanone	3.235	43	131363	148.52	ug/L	98
43) 1,1-Dichloropropene	3.281	75	66266	32.41	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42165.d
Acq On : 14 Dec 2022 4:04 pm
Operator : joannel
Sample : ECC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1698,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:54:44 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) tert-Butyl formate	3.327	59	195519	155.15	ug/L	98
45) Propionitrile	3.381	54	80067	312.15	ug/L	98
46) Methacrylonitrile	3.404	41	299112	318.45	ug/L	100
47) Benzene	3.420	78	193121	32.56	ug/L	97
48) TAME	3.497	73	137903	33.73	ug/L	97
50) 1,2-Dichloroethane	3.512	62	67978	32.87	ug/L	99
51) Isobutyl Alcohol	3.512	43	100492m	1286.59	ug/L	
52) Tert Amyl Alcohol	3.574	59	70850	337.49	ug/L	99
53) Trichloroethene	3.758	95	54118	32.35	ug/L	98
54) Methylcyclohexane	3.781	83	83527	33.77	ug/L	94
55) Dibromomethane	3.989	93	34078	33.30	ug/L	99
56) 1,2-Dichloropropane	4.051	63	48102	32.11	ug/L	99
57) Bromodichloromethane	4.089	83	64500	32.49	ug/L	99
58) Methyl methacrylate	4.182	41	42028	30.73	ug/L	98
59) 1,4-Dioxane	4.205	88	13601	649.40	ug/L	96
60) 2-Chloroethyl vinyl ether	4.436	63	156022	153.61	ug/L	99
61) cis-1,3-Dichloropropene	4.474	75	78100	32.60	ug/L	99
64) Toluene	4.643	91	208043	34.44	ug/L	100
65) 2-Nitropropane	4.743	41	69465	173.17	ug/L	98
66) 4-Methyl-2-pentanone	4.859	43	261916	156.26	ug/L	99
67) trans-1,3-Dichloropropene	4.890	75	68590	35.32	ug/L	99
68) Tetrachloroethene	4.905	166	62717	37.78	ug/L	97
69) Ethyl methacrylate	5.005	69	61505	33.96	ug/L	98
70) 1,1,2-Trichloroethane	4.990	83	39745	36.85	ug/L	99
71) Dibromochloromethane	5.121	129	53773	37.43	ug/L	99
72) 1,3-Dichloropropane	5.174	76	78093	36.30	ug/L	99
73) 1,2-Dibromoethane	5.275	107	52082	37.06	ug/L	99
74) 3,3-Dimethyl-1-Butanol	5.405	57	364215	1691.96	ug/L	99
75) 2-hexanone	5.421	43	248065	157.63	ug/L	100
76) 1-Chlorohexane	5.652	91	65810m	33.44	ug/L	
77) Ethylbenzene	5.682	91	226407m	35.17	ug/L	
78) Chlorobenzene	5.644	112	138451	36.40	ug/L	97
79) 1,1,1,2-Tetrachloroethane	5.690	131	51093	37.68	ug/L	98
80) m,p-Xylene	5.782	91	356248	70.30	ug/L	99
81) o-Xylene	6.090	91	182164	34.79	ug/L	99
82) Styrene	6.121	104	146389	36.26	ug/L	99
83) Bromoform	6.121	173	35948	37.20	ug/L	98
84) Isopropylbenzene	6.329	105	220245	35.69	ug/L	100
87) cis-1,4-Dichloro-2-butene	6.552	53	16326	28.64	ug/L	92
88) n-Propylbenzene	6.637	91	260108	36.17	ug/L	100
89) Bromobenzene	6.591	156	62514	38.84	ug/L	96
90) 1,1,2,2-Tetrachloroethane	6.660	83	66320	37.25	ug/L	99
91) 1,3,5-Trimethylbenzene	6.791	105	192464	36.77	ug/L	99
92) 2-Chlorotoluene	6.745	91	149916	35.87	ug/L	99
93) trans-1,4-Dichloro-2-B...	6.791	53	20054	32.10	ug/L	97
94) 1,2,3-Trichloropropane	6.752	110	20624	38.35	ug/L	89
95) Cyclohexanone	6.768	55	11484	166.54	ug/L	97
96) 4-Chlorotoluene	6.868	91	157253	36.01	ug/L	98
97) tert-Butylbenzene	7.037	91	104975	35.45	ug/L	98
98) 1,2,4-Trimethylbenzene	7.091	105	185313	37.02	ug/L	99
99) Pentachloroethane	7.037	167	30635	36.83	ug/L	93
100) sec-Butylbenzene	7.183	105	226780	36.87	ug/L	99
101) 4-Isopropyltoluene	7.299	119	203305	37.48	ug/L	99
102) 1,3-Dichlorobenzene	7.322	146	109966	37.94	ug/L	97
103) 1,2,3-Trimethylbenzene	7.430	105	179116	37.17	ug/L	99
104) 1,4-Dichlorobenzene	7.391	146	111058	37.34	ug/L	95
105) n-Butylbenzene	7.630	92	100381	36.76	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42165.d
Acq On : 14 Dec 2022 4:04 pm
Operator : joannel
Sample : ECC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1698,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:54:44 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration

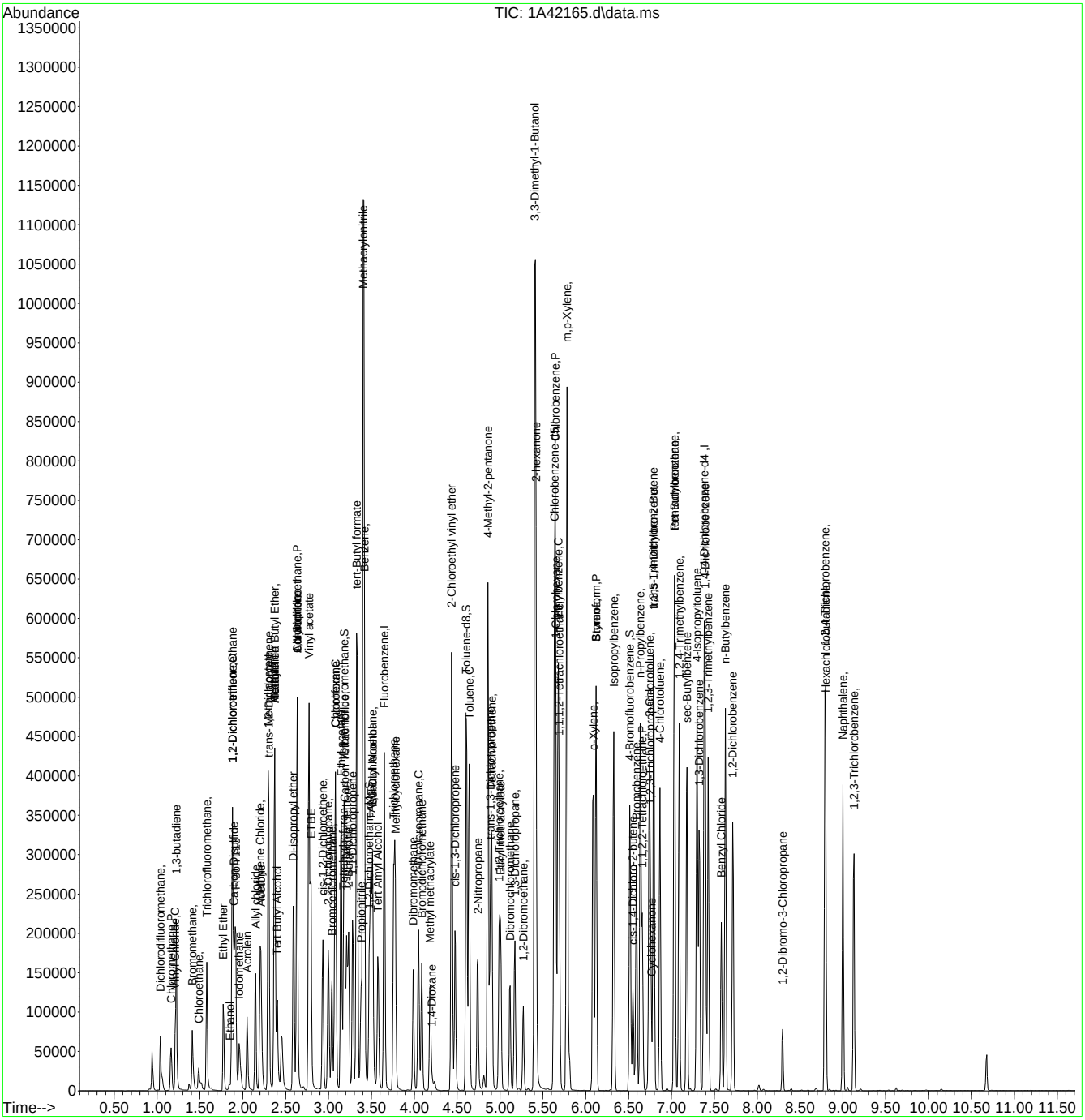
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) Benzyl Chloride	7.583	126	23757	34.22	ug/L	99
107) 1,2-Dichlorobenzene	7.714	146	101834	37.74	ug/L	98
108) 1,2-Dibromo-3-Chloropr...	8.299	75	12726	36.72	ug/L	96
109) Hexachlorobutadiene	8.799	225	38922	38.88	ug/L	99
110) 1,2,4-Trichlorobenzene	8.792	180	71134	38.03	ug/L	98
111) Naphthalene	9.000	128	189968	36.99	ug/L	99
112) 1,2,3-Trichlorobenzene	9.130	180	67347	38.09	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42165.d
Acq On : 14 Dec 2022 4:04 pm
Operator : joannel
Sample : ECC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1698,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:54:44 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



Manual Integration Approval Summary

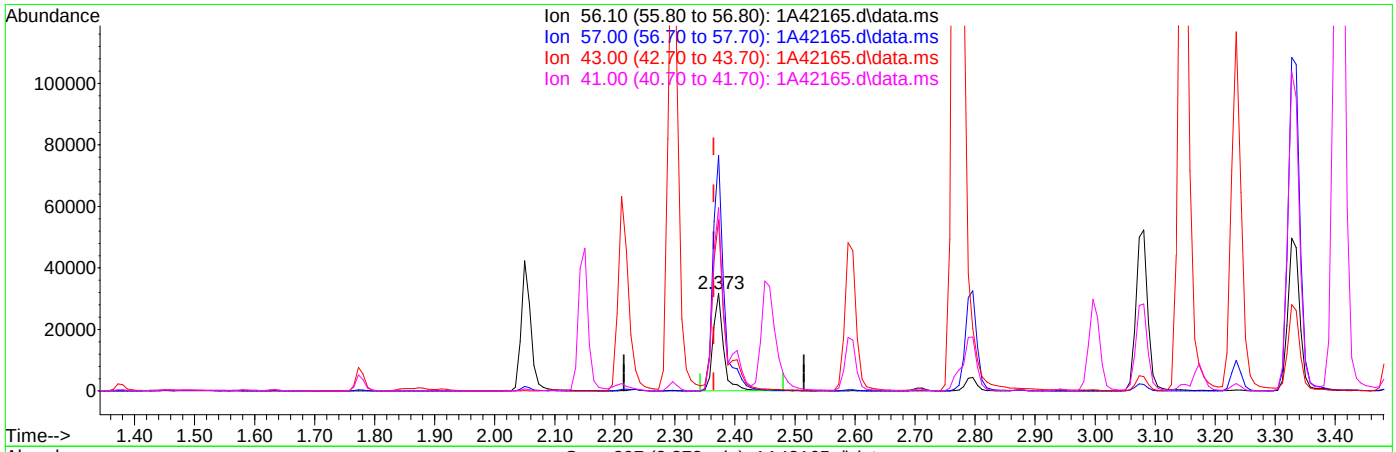
Sample Number: V1A1698-ECC1696 **Method:** SW846 8260D
Lab FileID: 1A42165.D **Analyst approved:** 12/15/22 13:04 Jo-Ann Lugo De Jesus
Injection Time: 12/14/22 16:04 **Supervisor approved:** 12/16/22 02:57 Jennifer Fereira

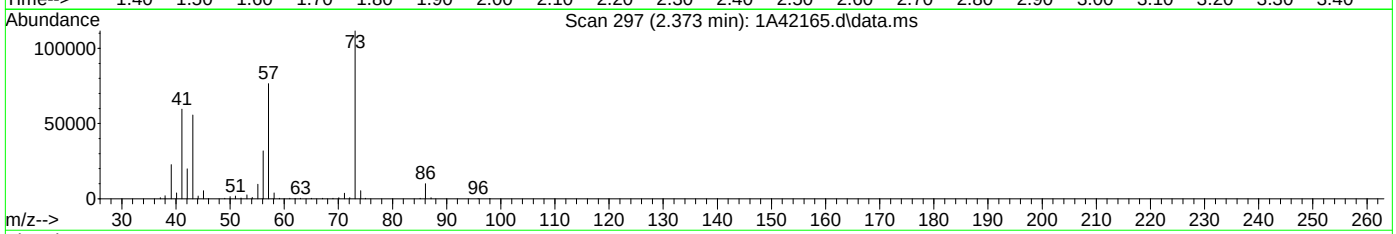
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		2.37	Overlapping peak
Acetonitrile	75-05-8		2.37	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.19	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration
Ethylbenzene	100-41-4		5.68	Poor instrument integration

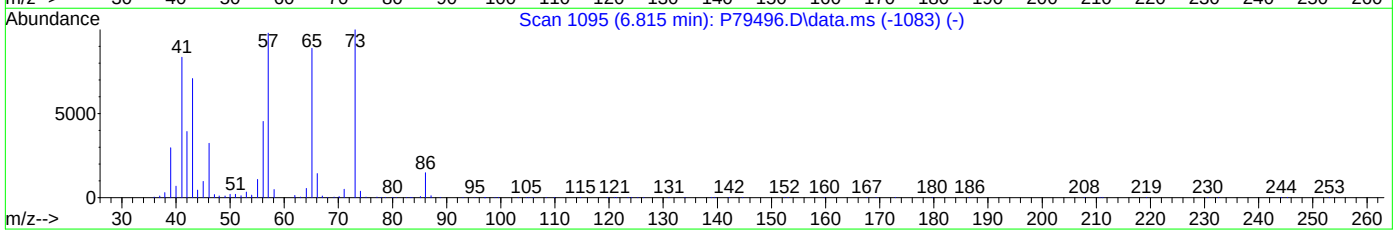
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42165.d
Acq On : 14 Dec 2022 4:04 pm
Operator : joannel
Sample : ECC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1698,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:37:09 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42165.d\data.ms

(22) Hexane

2.373min (+0.008) 32.55ug/L

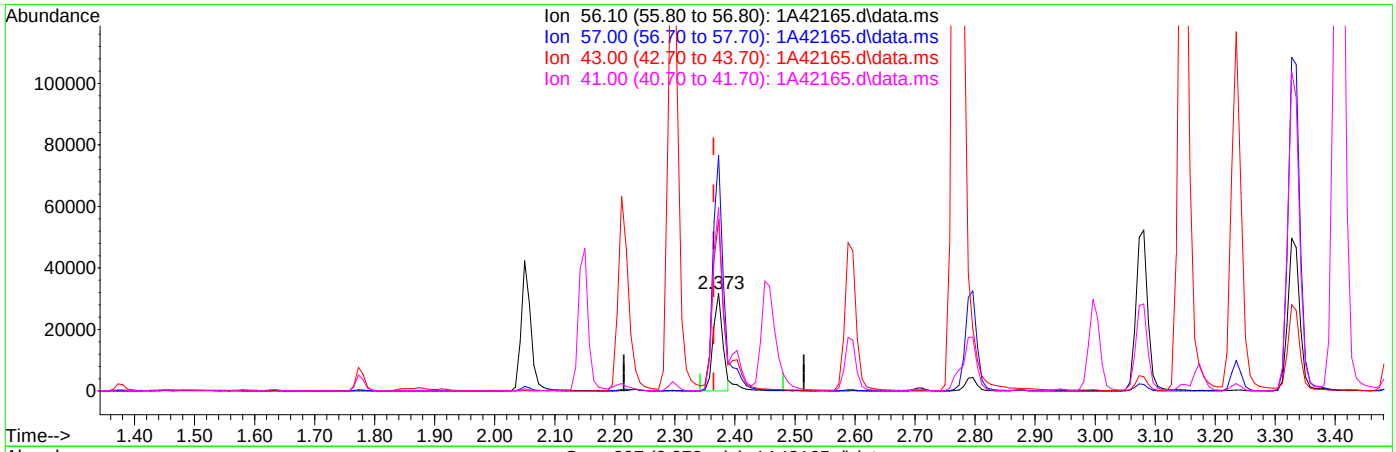
response 38199

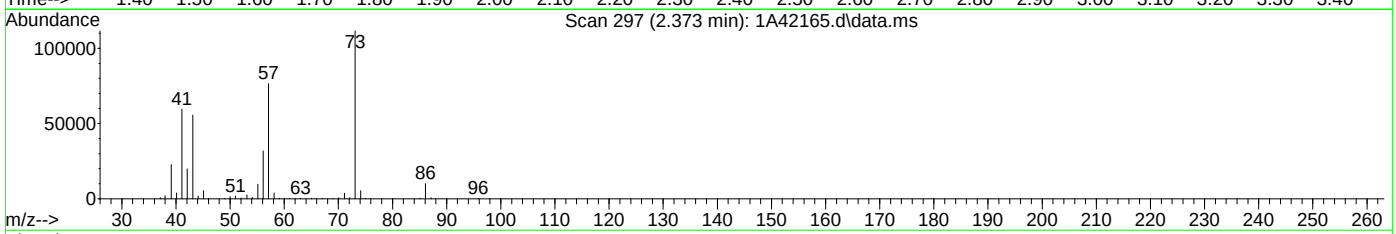
Ion	Exp%	Act%
56.10	100	100
57.00	243.90	241.01
43.00	181.70	173.71
41.00	193.40	187.11

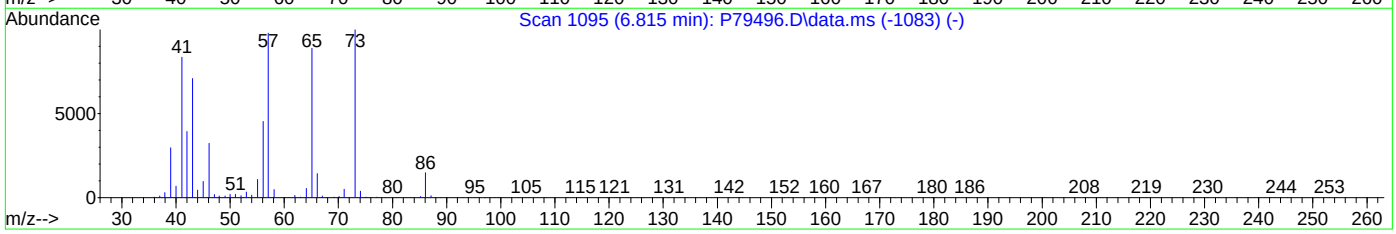
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42165.d
Acq On : 14 Dec 2022 4:04 pm
Operator : joannel
Sample : ECC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1698,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:37:09 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42165.d\data.ms

(22) Hexane

2.373min (+0.008) 29.91ug/L m

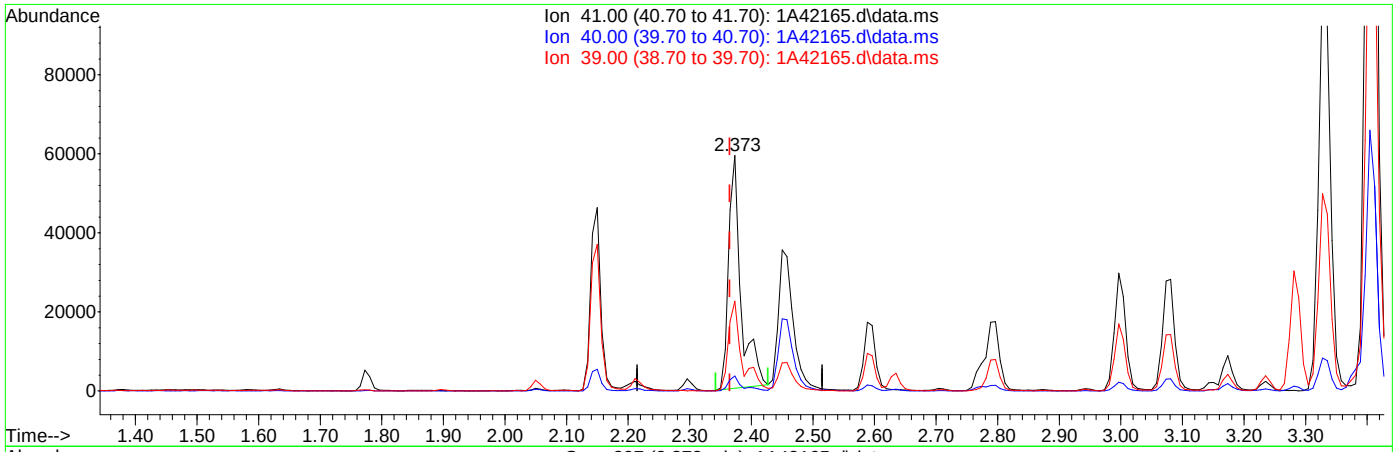
response 35100

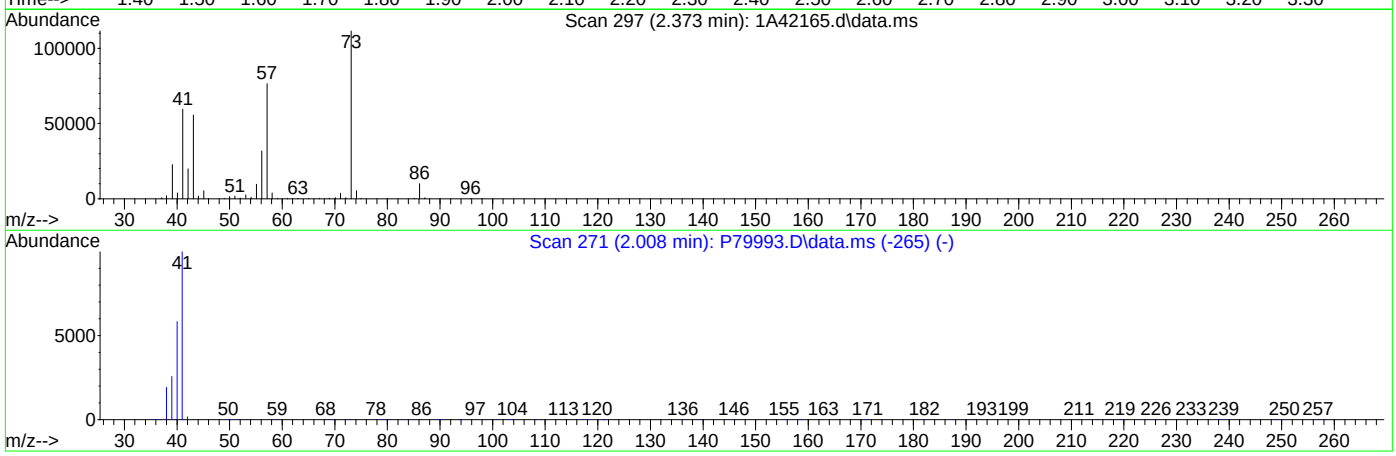
Ion	Exp%	Act%
56.10	100	100
57.00	243.90	241.01
43.00	181.70	174.95
41.00	193.40	187.56

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42165.d
Acq On : 14 Dec 2022 4:04 pm
Operator : joannel
Sample : ECC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1698,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:37:09 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42165.d\data.ms

(24) Acetonitrile

2.373min (+0.008) 363.54ug/L

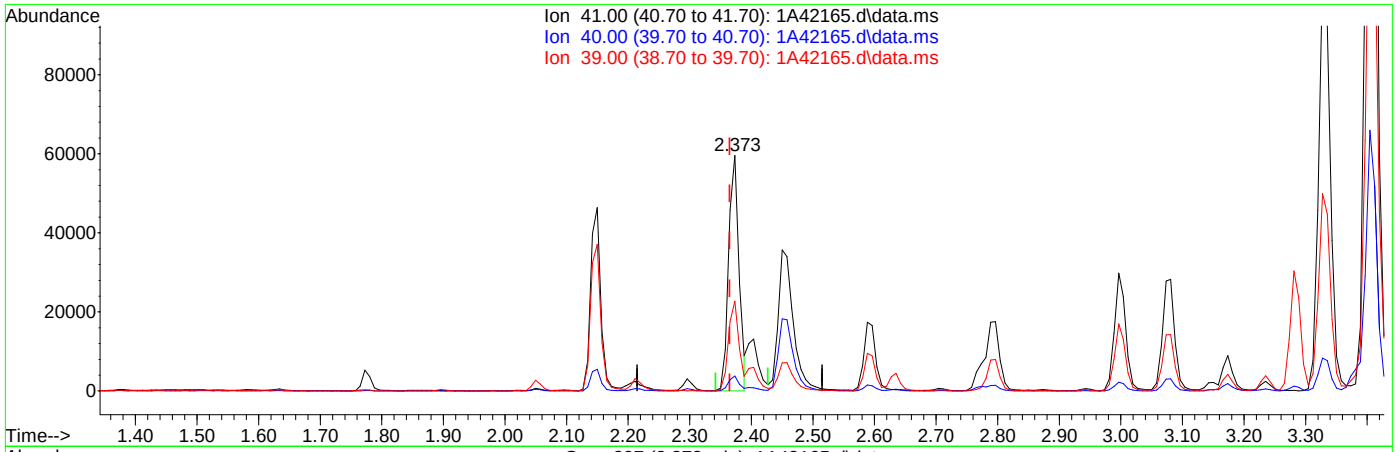
response 82763

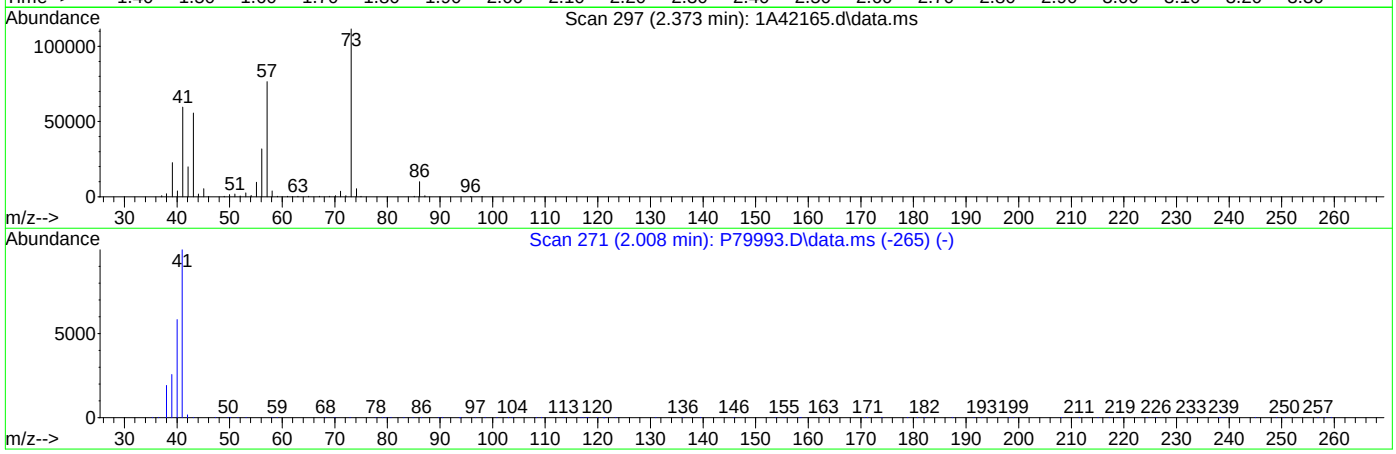
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.35
39.00	37.60	38.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42165.d
Acq On : 14 Dec 2022 4:04 pm
Operator : joannel
Sample : ECC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1698,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:37:09 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42165.d\data.ms

(24) Acetonitrile

2.373min (+0.008) 309.38ug/L m

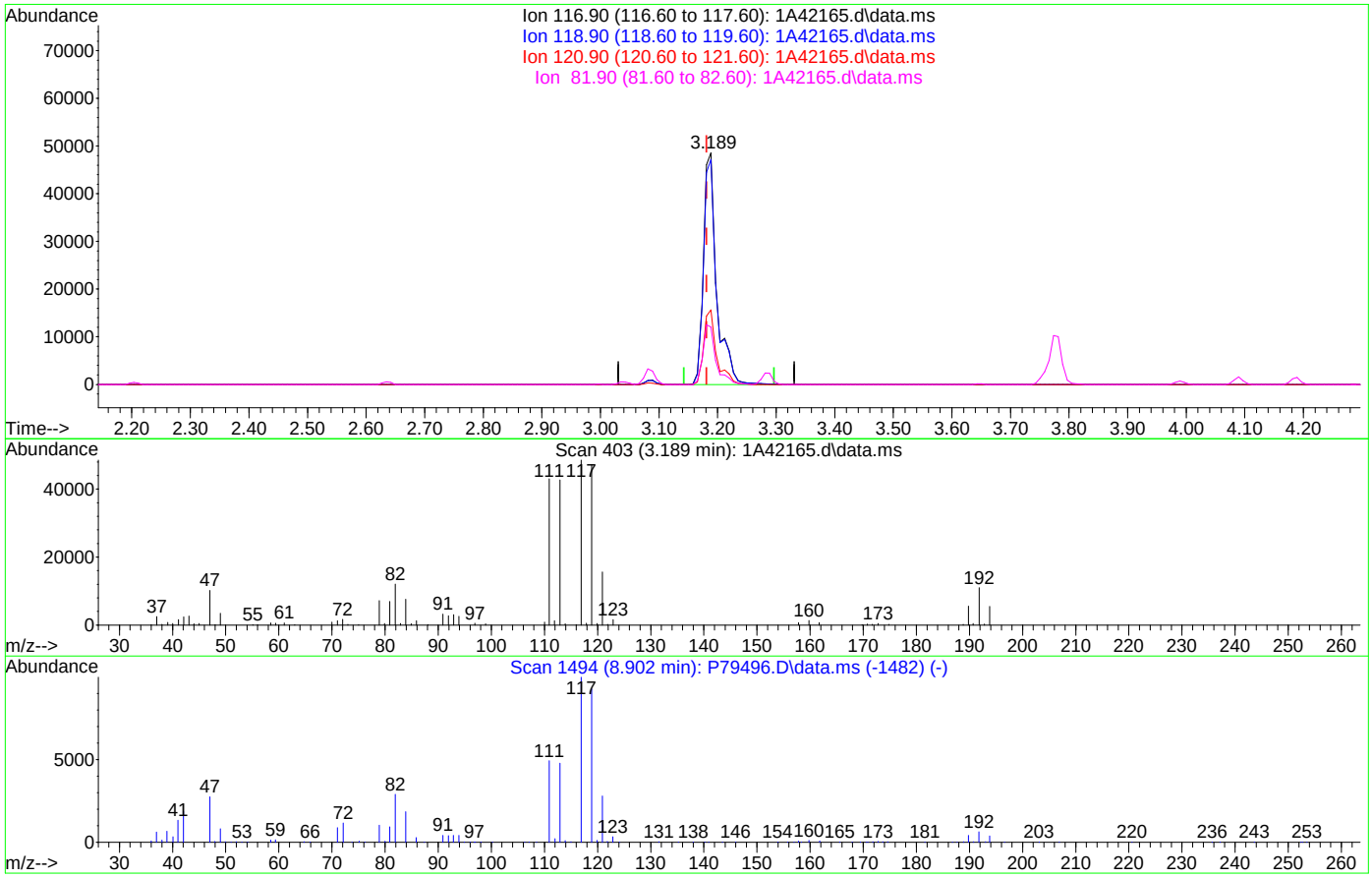
response 70434

Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.34
39.00	37.60	38.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42165.d
Acq On : 14 Dec 2022 4:04 pm
Operator : joannel
Sample : ECC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1698,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:37:09 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



TIC: 1A42165.d\data.ms

(40) Carbon Tetrachloride ( )

3.189min (+0.008) 36.47ug/L

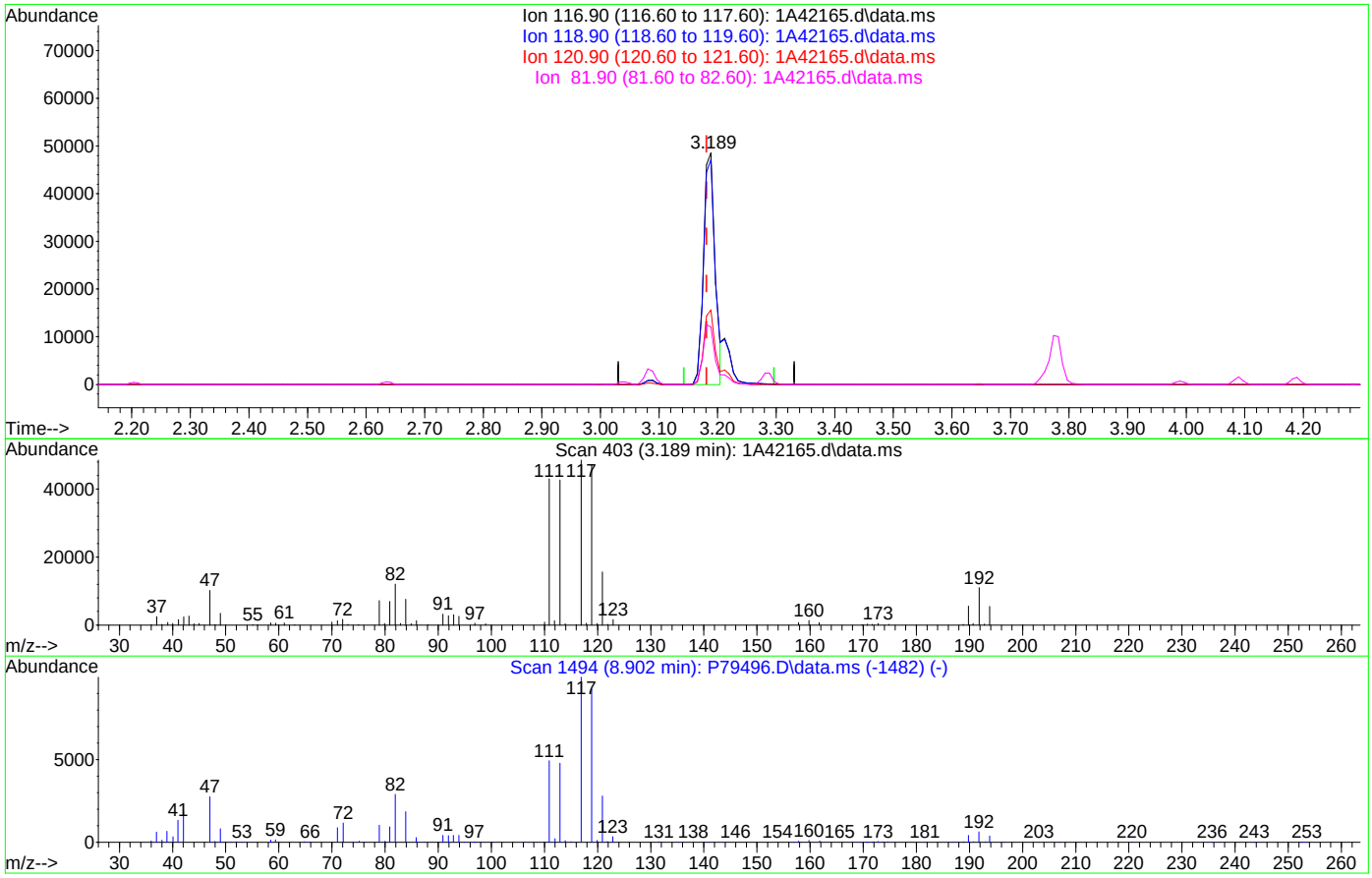
response 76707

Ion	Exp%	Act%
116.90	100	100
118.90	95.70	97.12
120.90	30.30	32.22
81.90	26.50	24.84

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42165.d
Acq On : 14 Dec 2022 4:04 pm
Operator : joannel
Sample : ECC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1698,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:37:09 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration



TIC: 1A42165.d\data.ms

(40) Carbon Tetrachloride ( )

3.189min (+0.008) 31.72ug/L m

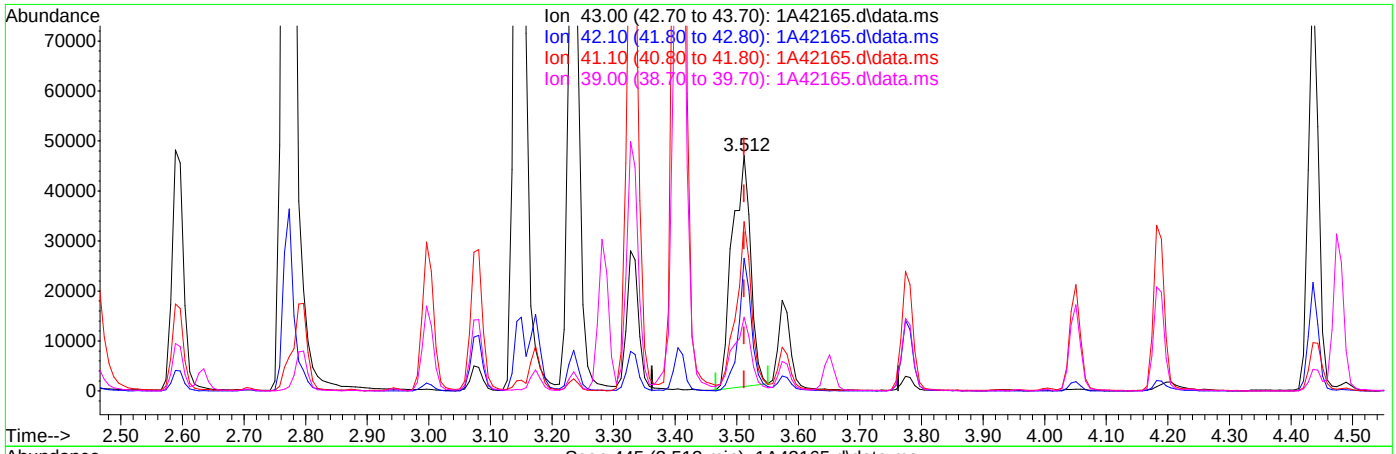
response 66719

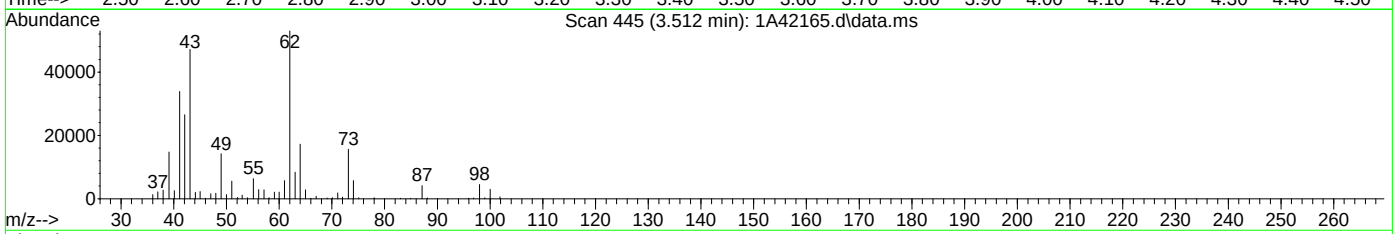
Ion	Exp%	Act%
116.90	100	100
118.90	95.70	97.12
120.90	30.30	32.22
81.90	26.50	24.84

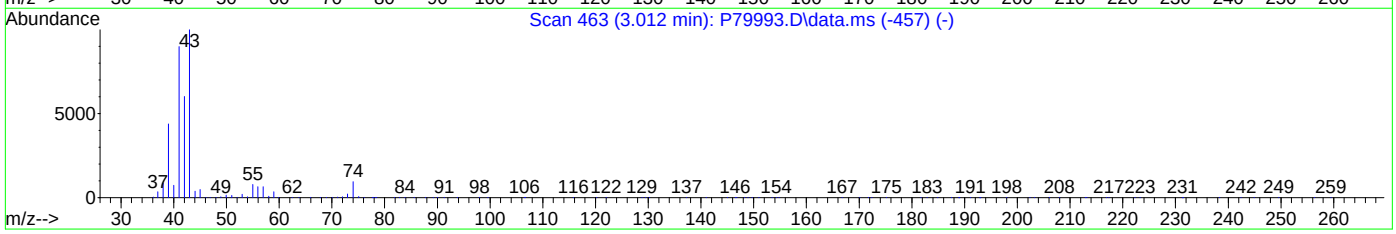
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42165.d
Acq On : 14 Dec 2022 4:04 pm
Operator : joannel
Sample : ECC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1698,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:37:09 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42165.d\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 1237.36ug/L

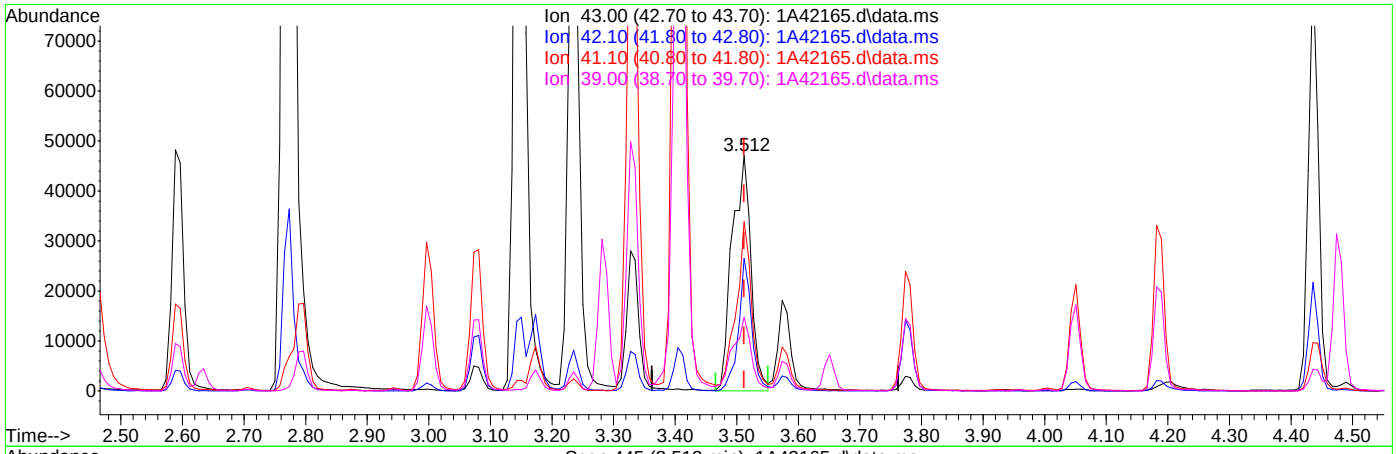
response 96317

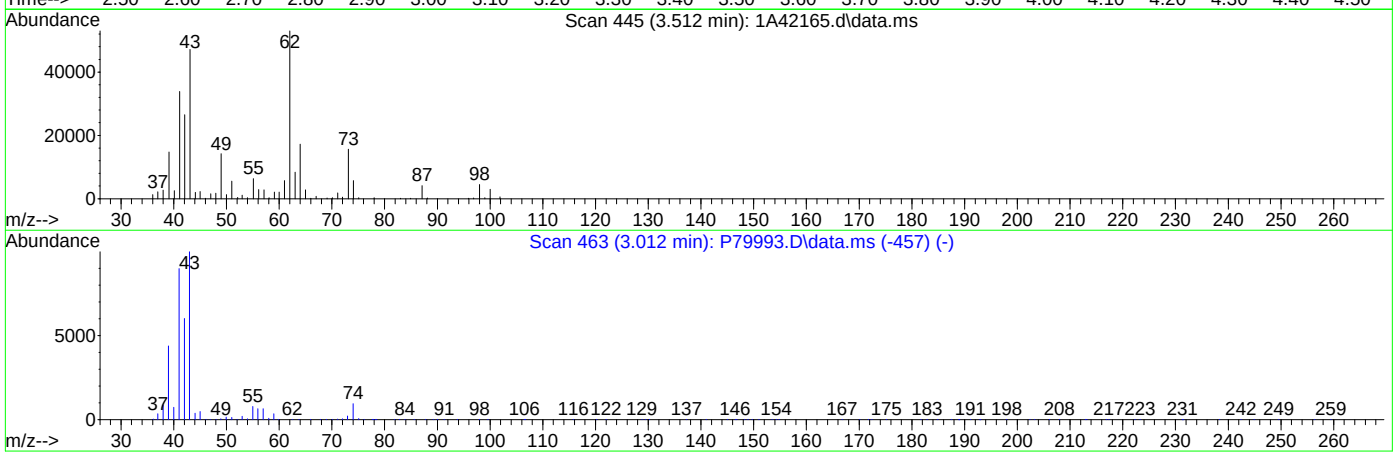
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	56.55
41.10	71.70	69.78
39.00	29.20	30.05

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42165.d
Acq On : 14 Dec 2022 4:04 pm
Operator : joannel
Sample : ECC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1698,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:37:09 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration





TIC: 1A42165.d\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 1286.59ug/L m

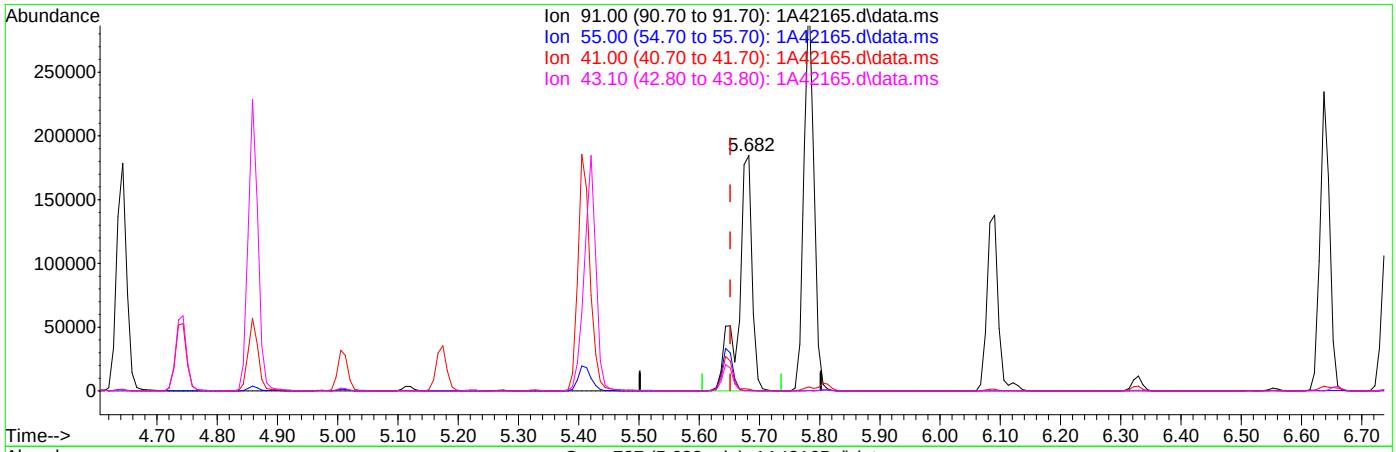
response 100492

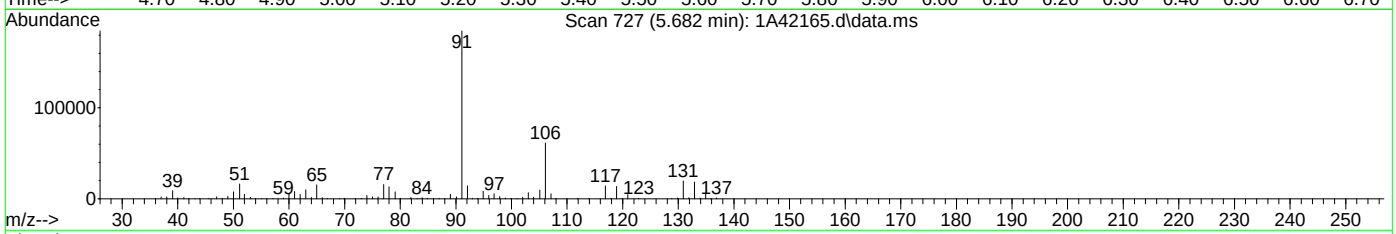
Ion	Exp%	Act%
43.00	100	100
42.10	57.20	56.32
41.10	71.70	71.92
39.00	29.20	31.31

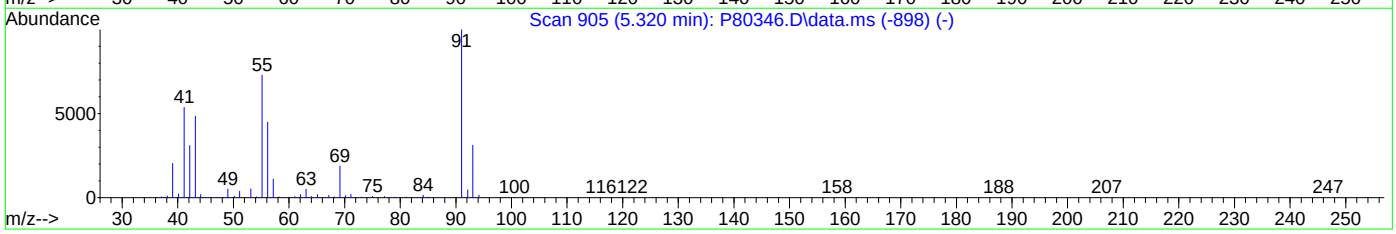
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42165.d
Acq On : 14 Dec 2022 4:04 pm
Operator : joannel
Sample : ECC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1698,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:37:09 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42165.d\data.ms

(76) 1-Chlorohexane

5.682min (+0.030) 148.50ug/L

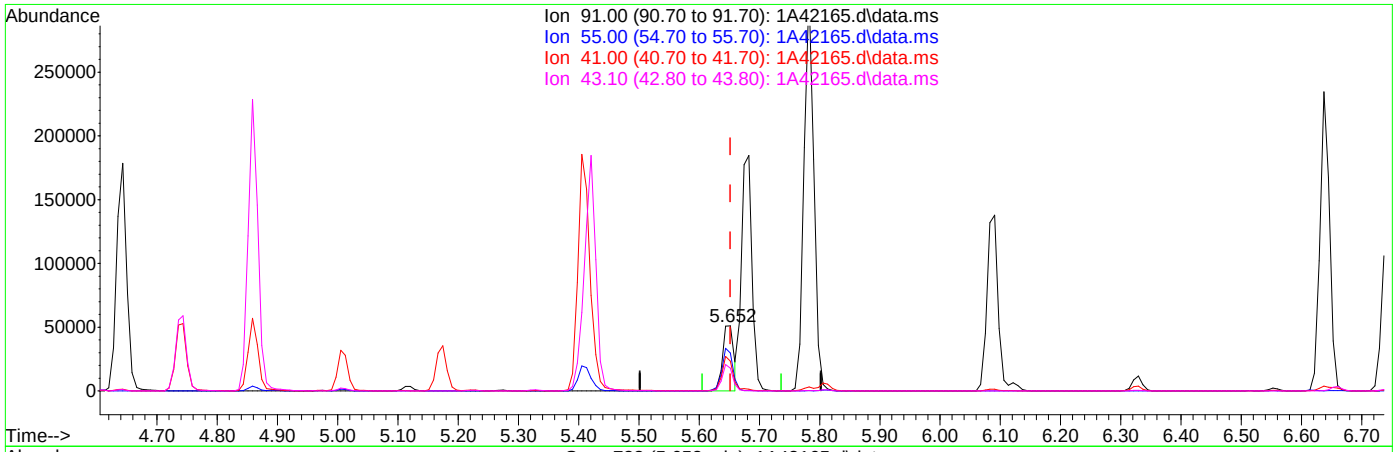
response 292218

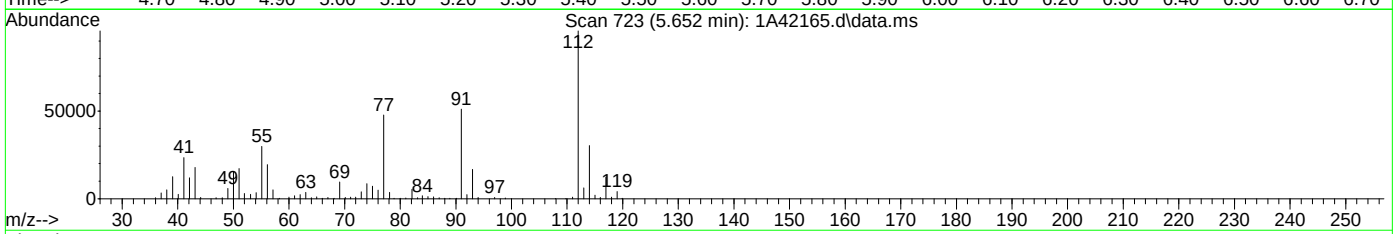
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	0.16#
41.00	48.10	0.67#
43.10	37.30	0.16#

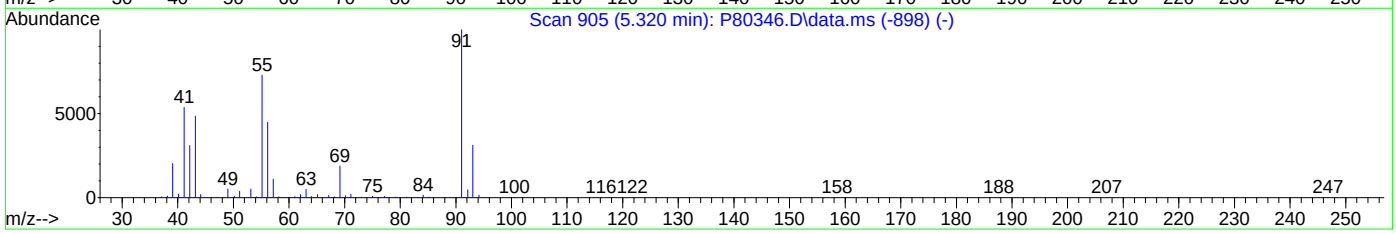
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42165.d
Acq On : 14 Dec 2022 4:04 pm
Operator : joannel
Sample : ECC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1698,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:37:09 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42165.d\data.ms

(76) 1-Chlorohexane

5.652min (-0.000) 33.44ug/L m

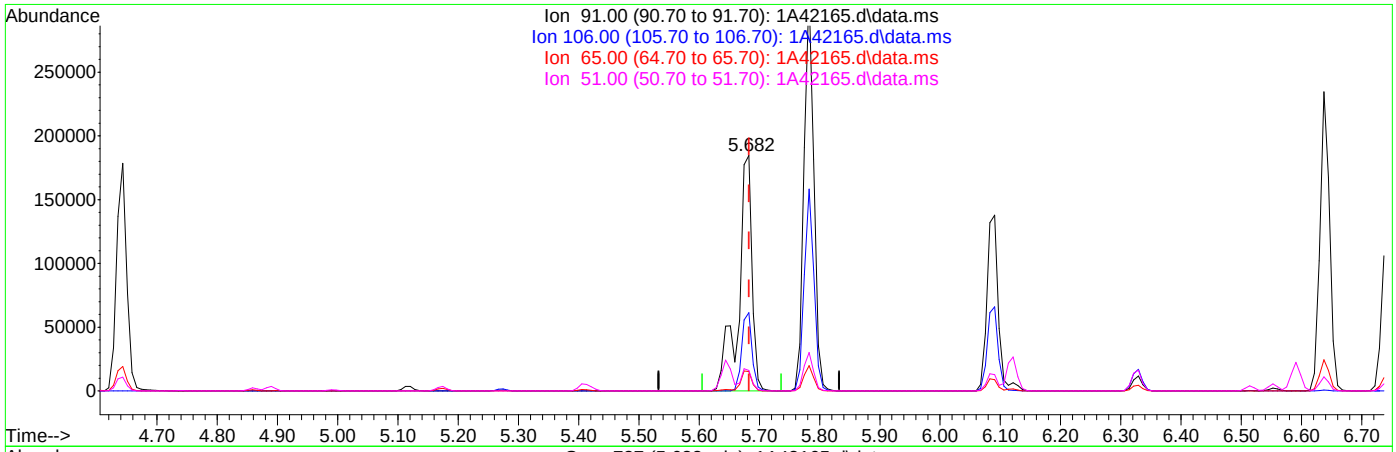
response 65810

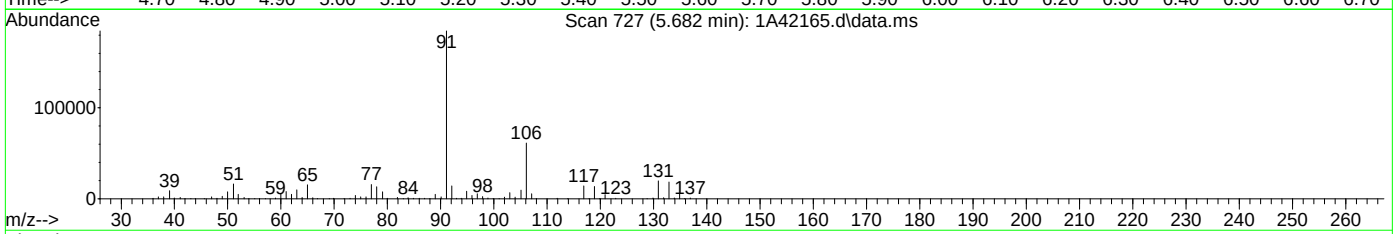
Ion	Exp%	Act%
91.00	100	100
55.00	61.70	58.33
41.00	48.10	45.93
43.10	37.30	34.90

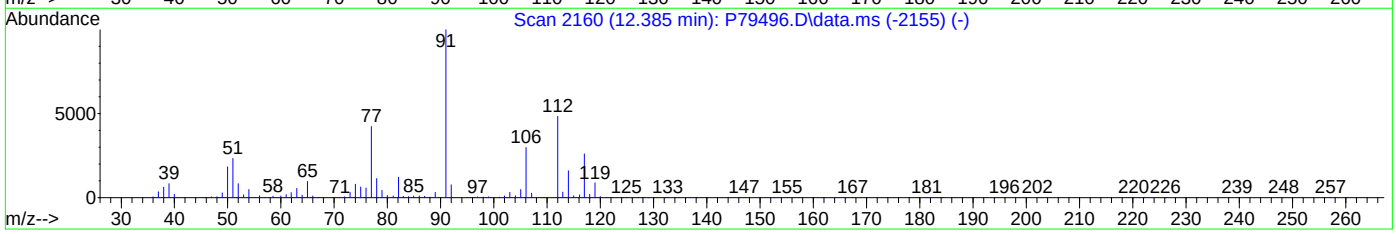
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42165.d
Acq On : 14 Dec 2022 4:04 pm
Operator : joannel
Sample : ECC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1698,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:37:09 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42165.d\data.ms

(77) Ethylbenzene (C)

5.682min (-0.001) 45.40ug/L

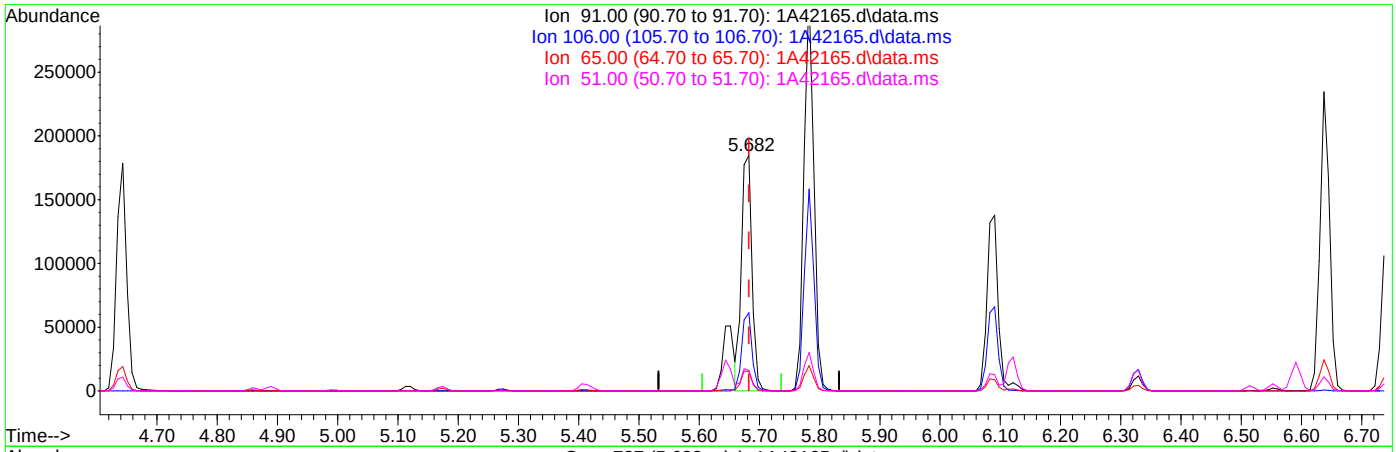
response 292218

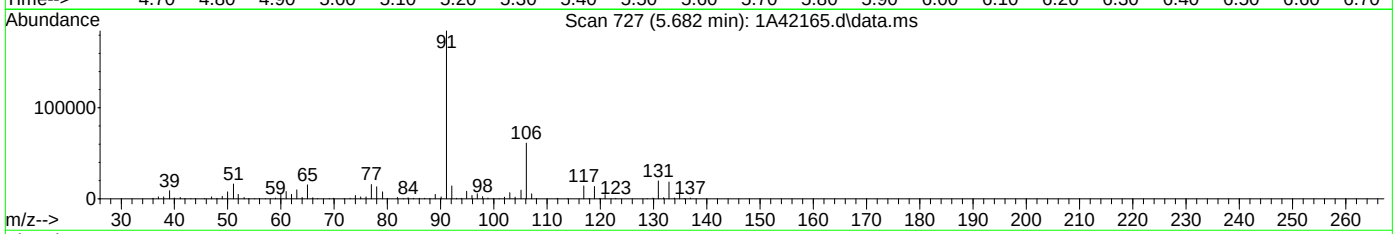
Ion	Exp%	Act%
91.00	100	100
106.00	32.70	33.19
65.00	8.50	8.33
51.00	9.00	8.73

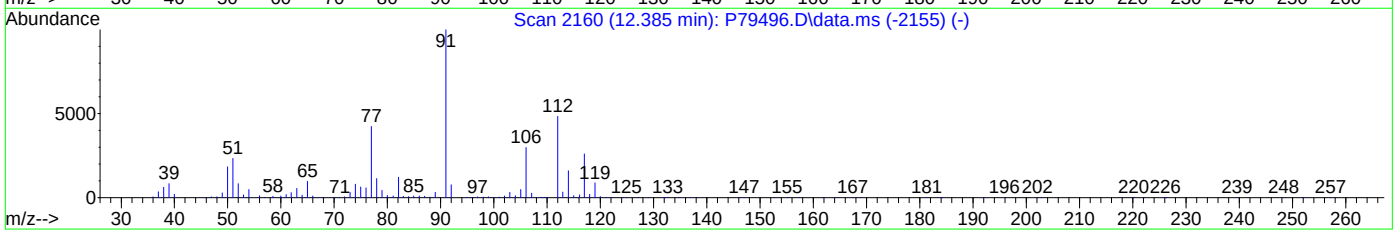
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-15-2022\v1a1698-1699\
Data File : 1A42165.d
Acq On : 14 Dec 2022 4:04 pm
Operator : joannel
Sample : ECC1696-5 Inst : MSVOA17
Misc : MS52217,V1A1698,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1A_12-12-2022.M
Quant Results File: V1A_12-12-2022.RES
Quant Time: Dec 15 04:37:09 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Dec 13 09:29:27 2022
Response via : Initial Calibration







TIC: 1A42165.d\data.ms

(77) Ethylbenzene (C)

5.682min (-0.001) 35.17ug/L m

response 226407

Ion	Exp%	Act%
91.00	100	100
106.00	32.70	33.19
65.00	8.50	8.33
51.00	9.00	8.73

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 11/07/22 17:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:46:34 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.719	96	1322877	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.639	117	851903	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.333	152	347168	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.259	113	267125	45.86	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 91.72%				
49) 1,2-Dichloroethane-d4	3.547	65	391233	49.98	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.96%				
63) Toluene-d8	4.645	98	1284898	52.55	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.10%				
86) 4-Bromofluorobenzene	6.497	174	266523	44.82	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 89.64%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.115	85	5536	1.25	ug/L		96
3) Chloromethane	1.235	50	10820	2.44	ug/L		100
4) 1,3-butadiene	1.308	39	8216	1.65	ug/L		95
5) Vinyl Chloride	1.293	62	7101	1.47	ug/L		94
6) Bromomethane	1.497	94	1506	0.77	ug/L		95
7) Chloroethane	1.575	64	2701	1.83	ug/L		91
8) Trichlorofluoromethane	1.674	101	8726	1.60	ug/L		84
9) Ethyl Ether	1.868	59	6863	1.58	ug/L		94
10) Ethanol	1.936	45	6820m	50.67	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.967	67	7121	1.36	ug/L		92
12) 1,1-Dichloroethene	1.978	61	7926	1.19	ug/L		93
13) Freon 113	2.009	101	4636	1.14	ug/L	#	86
14) Carbon Disulfide	1.994	76	30201	2.54	ug/L		93
15) Iodomethane	2.051	142	1056	0.67	ug/L		89
16) Acrolein	2.145	56	10575	7.01	ug/L		97
17) Allyl chloride	2.239	41	6700	1.26	ug/L		93
18) Methylene Chloride	2.292	49	41797	6.10	ug/L		89
19) Acetone	2.307	43	33330	13.02	ug/L		100
20) Methyl acetate	2.391	43	49348	8.17	ug/L		91
21) trans-1,2-Dichloroethene	2.396	61	7702	1.16	ug/L		98
22) Hexane	2.464	56	4578	1.33	ug/L		93
23) Methyl Tert Butyl Ether	2.464	73	19340	1.43	ug/L		94
24) Tert Butyl Alcohol	2.496	59	24885	22.53	ug/L	#	66
25) Acetonitrile	2.543	41	17667	18.69	ug/L		99
26) Di-isopropyl ether	2.679	45	19583	1.36	ug/L		95
27) Chloroprene	2.721	53	31941	1.35	ug/L		93
28) 1,1-Dichloroethane	2.726	63	9772	1.18	ug/L		96
29) Acrylonitrile	2.721	52	22224	7.32	ug/L		89
30) ETBE	2.877	59	18922	1.37	ug/L		94
31) Vinyl acetate	2.856	43	79679	7.30	ug/L		100
32) cis-1,2-Dichloroethene	3.019	96	5770	1.15	ug/L		95
33) 2,2-Dichloropropane	3.081	77	8330	1.23	ug/L		98
34) Bromochloromethane	3.123	128	2412	1.08	ug/L		95
35) Cyclohexane	3.160	56	8447	1.16	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:46:34 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.160	83	10311	1.20	ug/L		94
37) Ethyl acetate	3.223	43	65997	8.19	ug/L		96
38) Tetrahydrofuran	3.254	42	5769	1.90	ug/L		93
40) Carbon Tetrachloride	3.264	117	5448m	0.94	ug/L		
41) 1,1,1-Trichloroethane	3.291	97	8094	1.08	ug/L		95
42) 2-Butanone	3.312	43	46151	9.64	ug/L		100
43) 1,1-Dichloropropene	3.359	75	7773	1.17	ug/L		95
44) tert-Butyl formate	3.406	59	20820	12.67	ug/L	#	73
45) Propionitrile	3.458	54	16870	12.93	ug/L		93
46) Methacrylonitrile	3.479	41	52923	12.27	ug/L		93
47) Benzene	3.489	78	24027	1.20	ug/L		86
48) TAME	3.563	73	17741	1.42	ug/L		96
50) Isobutyl alcohol	3.583	43	21364m	31.06	ug/L		
51) 1,2-Dichloroethane	3.589	62	8810	1.26	ug/L		89
52) Tert Amyl Alcohol	3.641	59	17280	17.16	ug/L		95
53) Trichloroethene	3.824	95	5972	1.15	ug/L		99
54) Methylcyclohexane	3.845	83	7741	1.10	ug/L		97
55) Dibromomethane	4.044	93	3551	1.22	ug/L	#	78
56) 1,2-Dichloropropane	4.106	63	5975	1.25	ug/L		90
57) Bromodichloromethane	4.143	83	5489	0.98	ug/L		95
58) Methyl methacrylate	4.232	41	5884	1.07	ug/L		93
59) 1,4-Dioxane	4.263	88	4617	44.77	ug/L		83
60) 2-Chloroethyl vinyl ether	4.473	63	7909	1.93	ug/L		91
61) cis-1,3-Dichloropropene	4.520	75	7224	0.98	ug/L		78
64) Toluene	4.682	91	26142	1.26	ug/L		98
65) 2-Nitropropane	4.776	41	11037	6.06	ug/L	#	80
66) 4-Methyl-2-pentanone	4.886	43	72324	8.99	ug/L		95
67) trans-1,3-Dichloropropene	4.917	75	6611	1.07	ug/L		88
68) Tetrachloroethene	4.933	166	4870	1.04	ug/L		95
69) Ethyl methacrylate	5.027	69	5315	0.80	ug/L		86
70) 1,1,2-Trichloroethane	5.017	83	4557	1.29	ug/L		91
71) Dibromochloromethane	5.142	129	3202	0.88	ug/L		87
72) 1,3-Dichloropropane	5.194	76	10675	1.37	ug/L		88
73) 1,2-Dibromoethane	5.289	107	4667	1.08	ug/L		76
74) 3,3-dimethyl-1-butanol	5.430	57	66321	53.74	ug/L		94
75) 2-hexanone	5.430	43	68390	8.33	ug/L		91
76) 1-Chlorohexane	5.649	91	9582m	1.51	ug/L		
77) Ethylbenzene	5.681	91	26595	1.21	ug/L		98
78) Chlorobenzene	5.655	112	15268	1.30	ug/L		90
79) 1,1,1,2-Tetrachloroethane	5.691	131	3917	1.04	ug/L		87
80) m,p-Xylene	5.780	91	38188	2.21	ug/L		97
81) o-Xylene	6.073	91	20119	1.18	ug/L		91
82) Styrene	6.110	104	11436	0.88	ug/L		97
83) Bromoform	6.115	173	1647	0.85	ug/L		93
84) Isopropylbenzene	6.308	105	20325	1.04	ug/L		97
87) cis-1,4-Dichloro-2-butene	6.523	53	2084	1.05	ug/L	#	64
88) n-Propylbenzene	6.606	91	26553	1.20	ug/L		97
89) Bromobenzene	6.570	156	5309	1.19	ug/L	#	76
90) 1,1,2,2-Tetrachloroethane	6.627	83	8274	1.41	ug/L		88
91) 1,3,5-Trimethylbenzene	6.758	105	16624	1.09	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:46:34 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

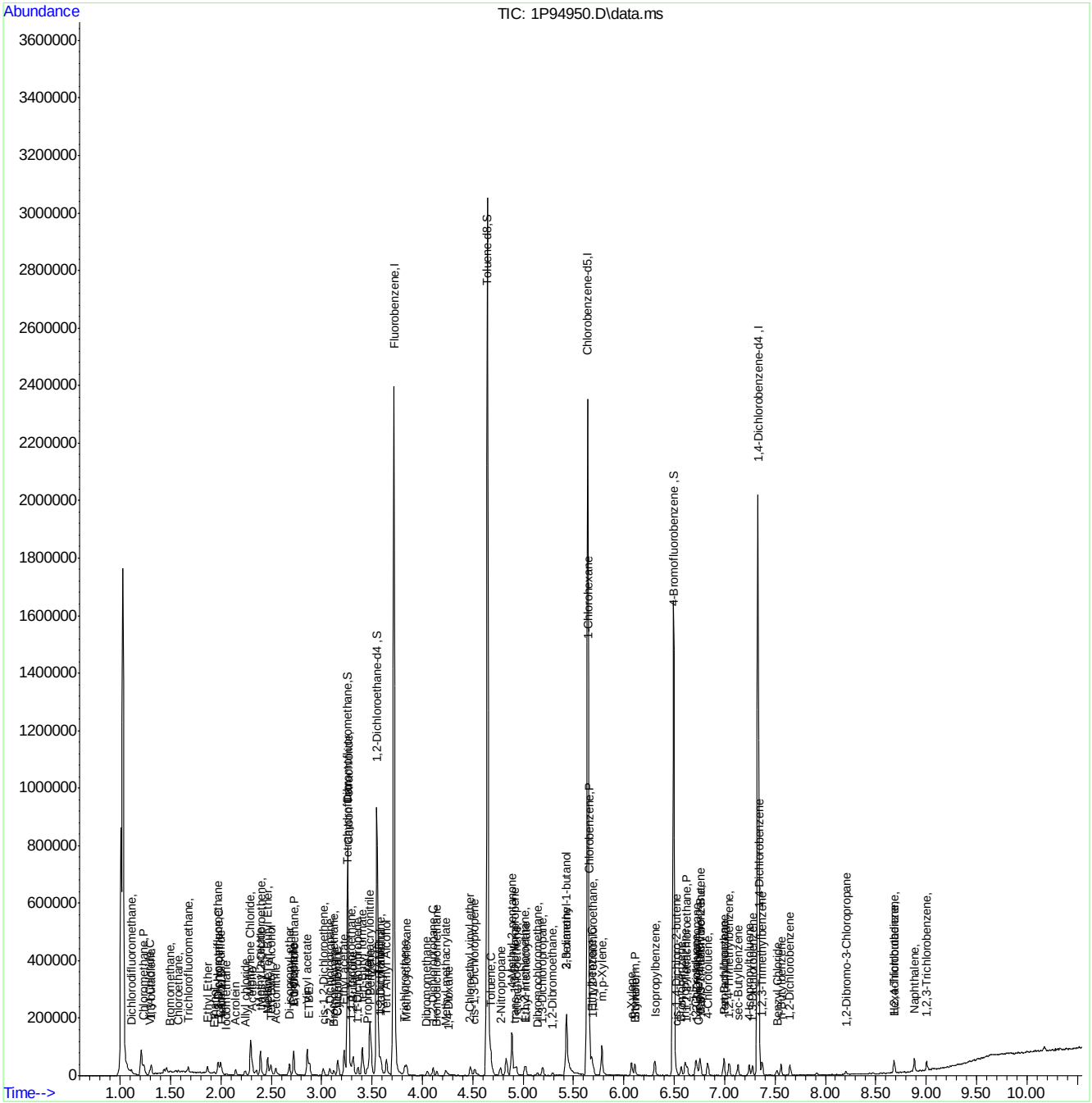
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.711	91	16278	1.22	ug/L		95
93)	trans-1,4-Dichloro-2-B...	6.758	53	2643	1.18	ug/L	#	72
94)	1,2,3-Trichloropropane	6.727	110	3058	1.42	ug/L		79
95)	Cyclohexanone	6.742	55	3481	9.17	ug/L	#	74
96)	4-Chlorotoluene	6.831	91	17005	1.23	ug/L		98
97)	tert-Butylbenzene	6.994	91	9571	1.10	ug/L		93
99)	1,2,4-Trimethylbenzene	7.046	105	16559	1.13	ug/L		94
100)	Pentachloroethane	6.994	167	1323	0.74	ug/L	#	1
101)	sec-Butylbenzene	7.135	105	18655	1.14	ug/L		97
102)	4-Isopropyltoluene	7.245	119	14520	1.02	ug/L		93
103)	1,3-Dichlorobenzene	7.276	146	9348	1.22	ug/L		95
104)	1,2,3-Trimethylbenzene	7.370	105	18021	1.25	ug/L		93
105)	1,4-Dichlorobenzene	7.344	146	9702m	1.22	ug/L		
106)	n-Butylbenzene	7.558	92	8015	1.18	ug/L		97
107)	Benzyl Chloride	7.522	126	1486m	0.91	ug/L		
108)	1,2-Dichlorobenzene	7.647	146	9105	1.26	ug/L		97
109)	1,2-Dibromo-3-Chloropr...	8.207	75	1605	1.24	ug/L	#	77
110)	Hexachlorobutadiene	8.683	225	1667	1.07	ug/L		96
111)	1,2,4-Trichlorobenzene	8.683	180	4889	1.17	ug/L		96
112)	Naphthalene	8.882	128	20808	1.24	ug/L		96
113)	1,2,3-Trichlorobenzene	9.007	180	4475	1.11	ug/L		92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:46:34 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration



Manual Integration Approval Summary

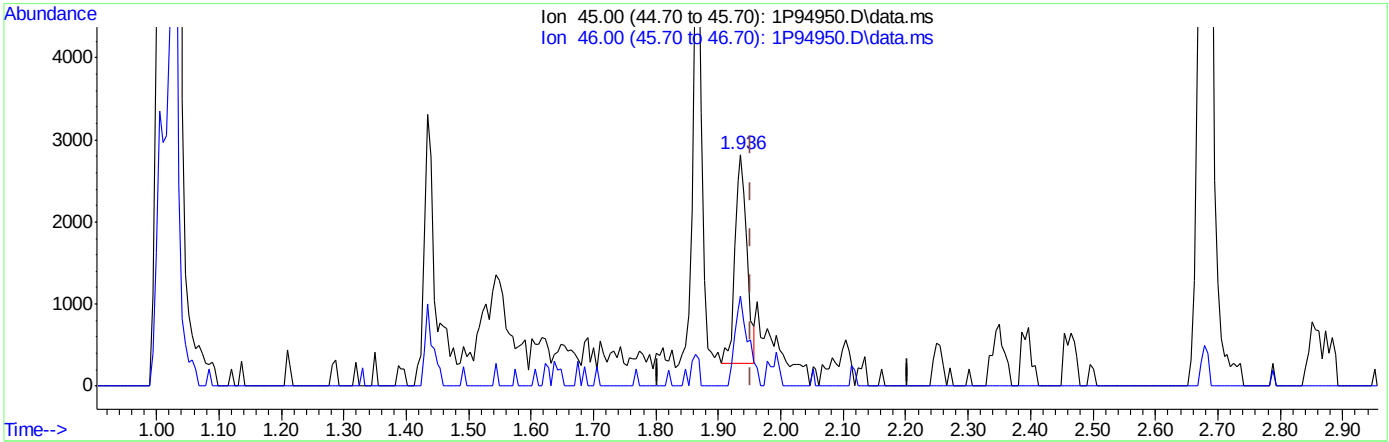
Sample Number: V1P3621-IC3621
Lab FileID: 1P94950.D
Injection Time: 11/04/22 10:24
Method: SW846 8260D
Analyst approved: 11/04/22 10:47 Courtney Failla
Supervisor approved: 11/07/22 17:40 Shanica O'Connor

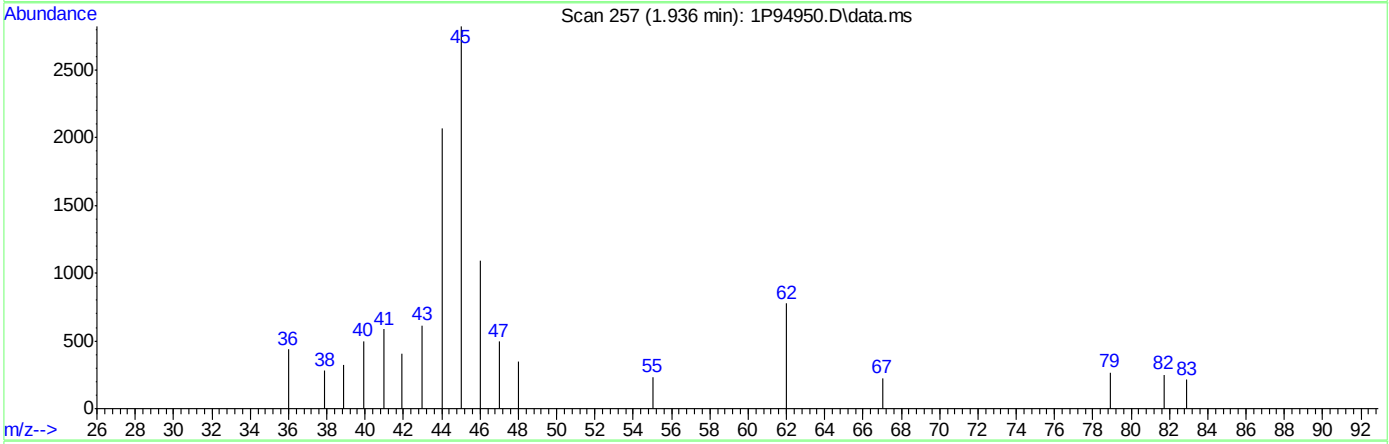
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.94	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.58	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration
1,4-Dichlorobenzene	106-46-7		7.34	Missed peak
Benzyl Chloride	100-44-7		7.52	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(10) Ethanol

1.936min (-0.017) 26.20ug/L

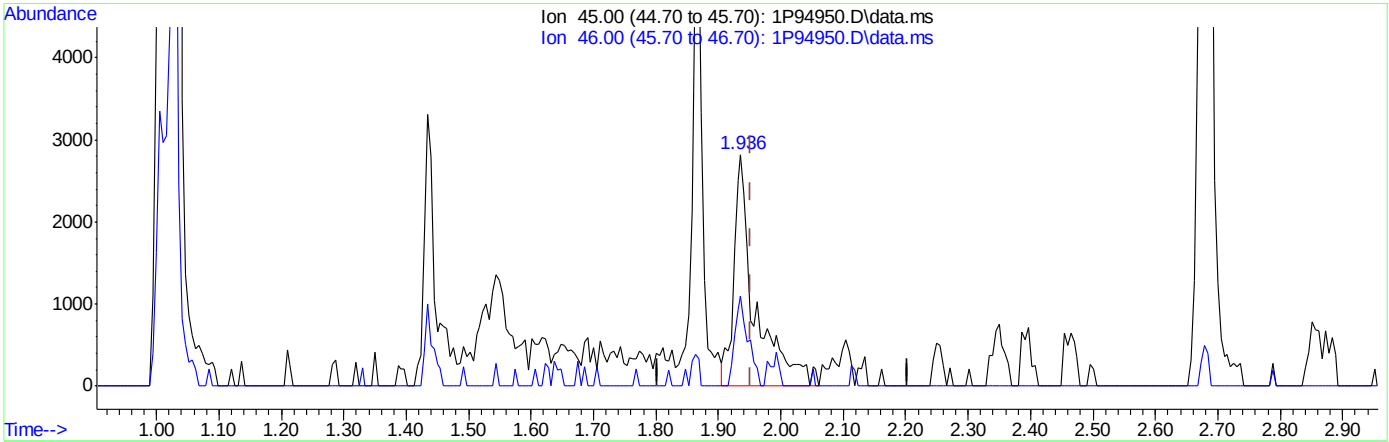
response 3550

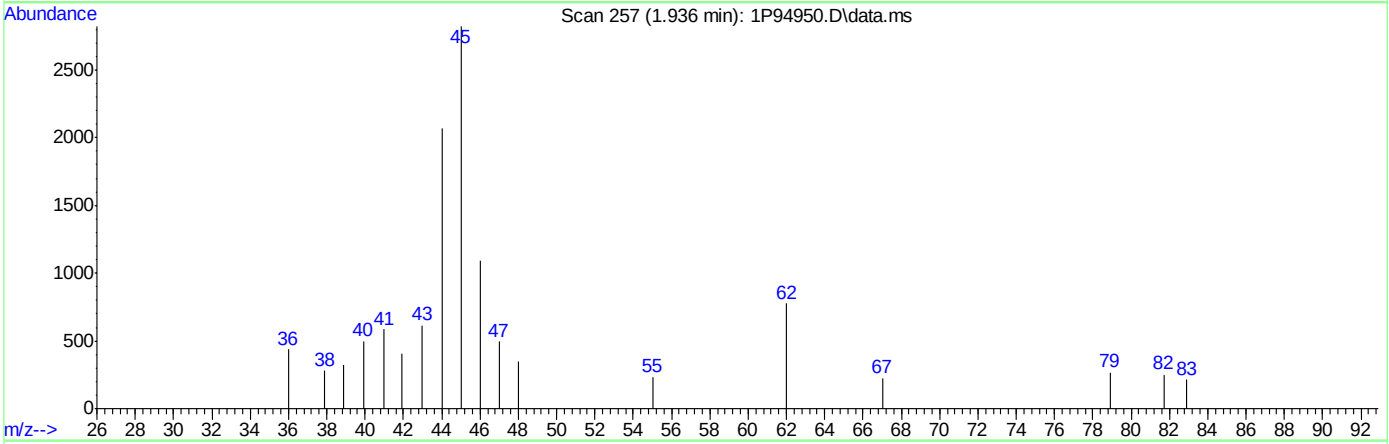
Ion	Exp%	Act%
45.00	100	100
46.00	42.10	42.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(10) Ethanol

1.936min (-0.017) 50.67ug/L m

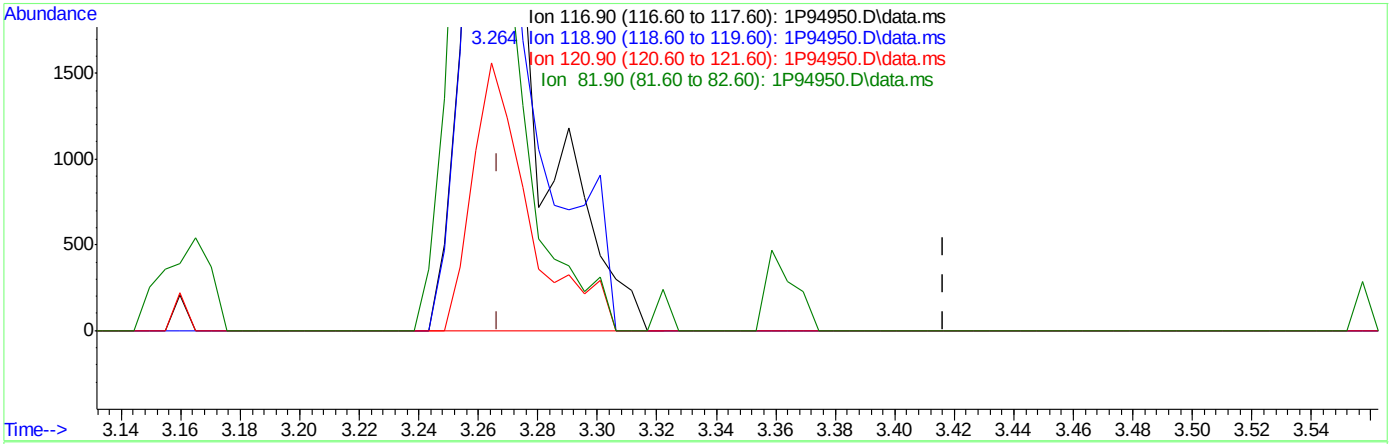
response 6820

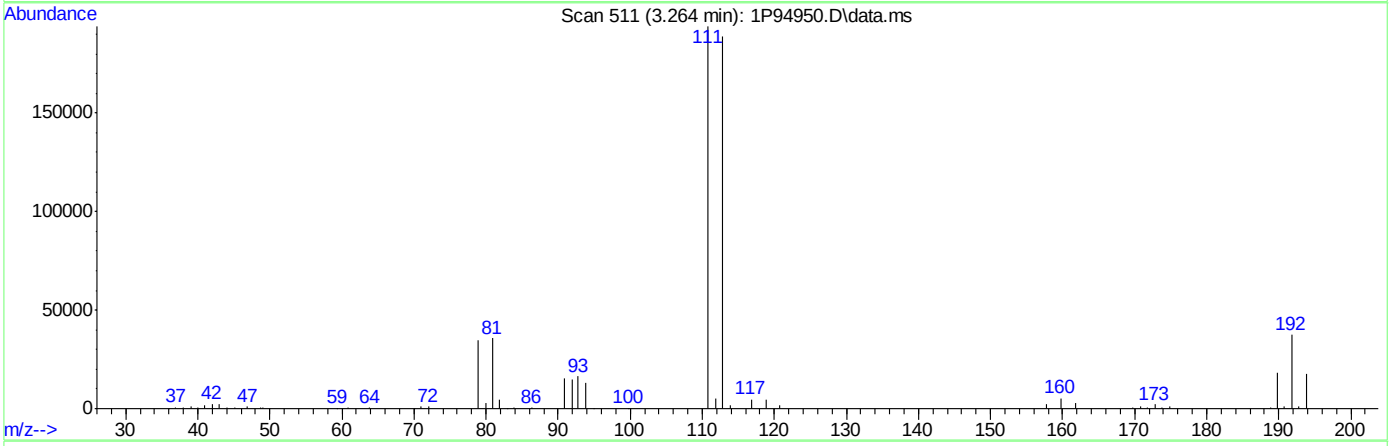
Ion	Exp%	Act%
45.00	100	100
46.00	42.10	38.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(40) Carbon Tetrachloride ( )

3.264min (-0.002) 1.15ug/L

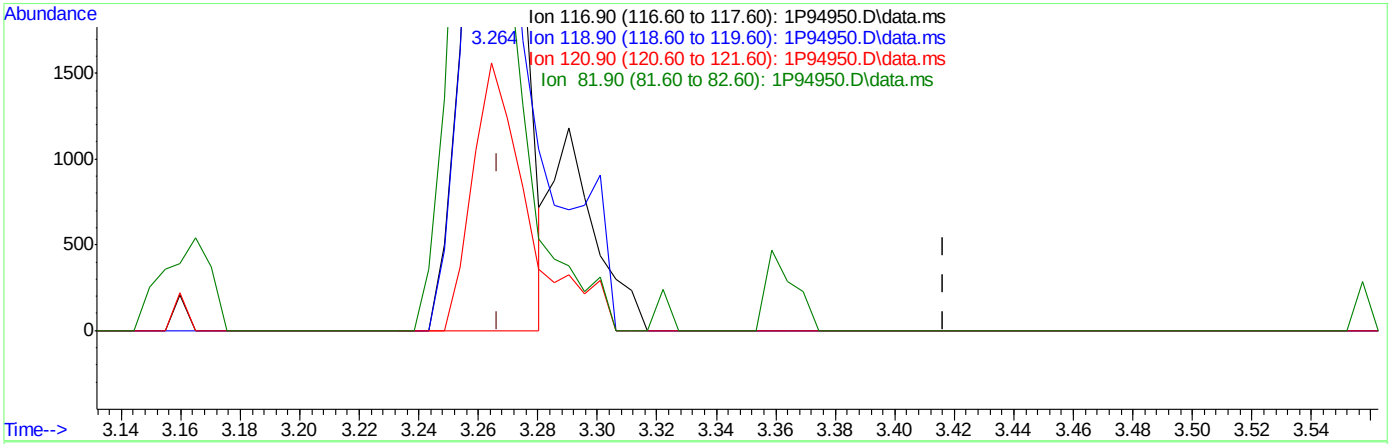
response 6643

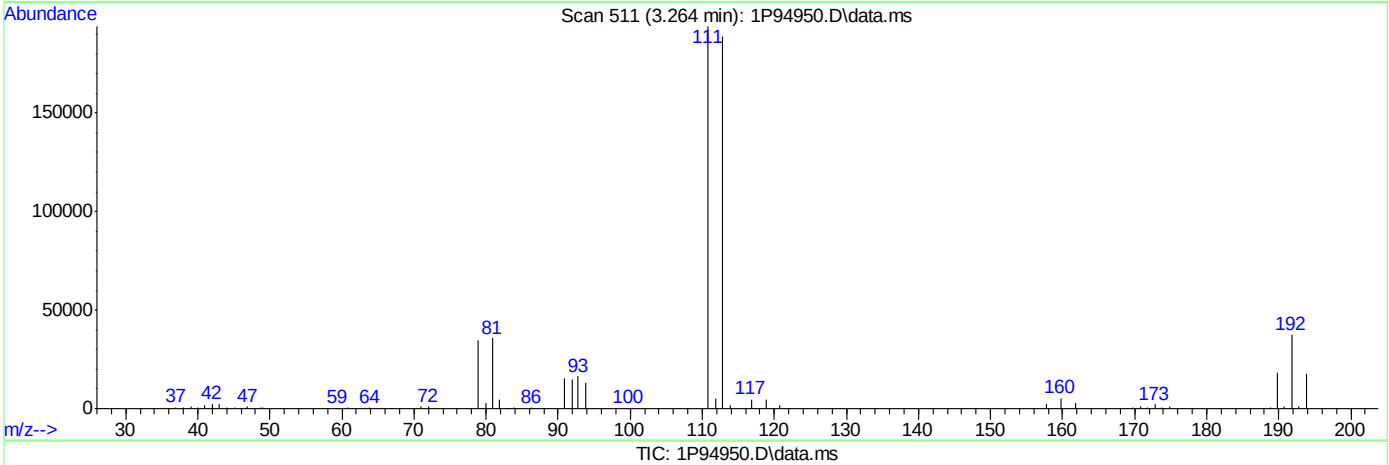
Ion	Exp%	Act%
116.90	100	100
118.90	98.90	95.26
120.90	30.30	33.86
81.90	27.70	93.94#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(40) Carbon Tetrachloride ( )

3.264min (-0.002) 0.94ug/L m

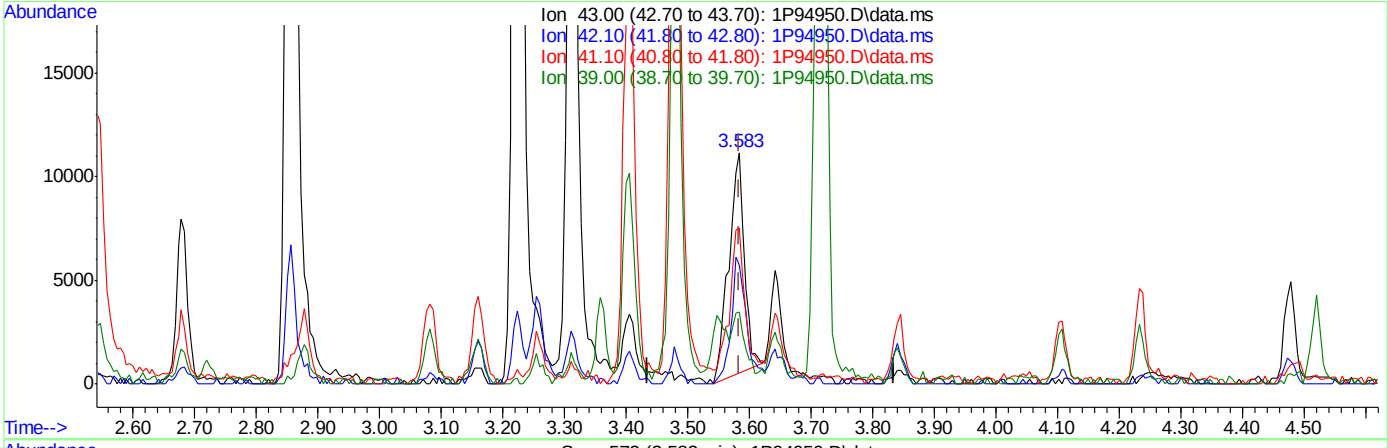
response 5448

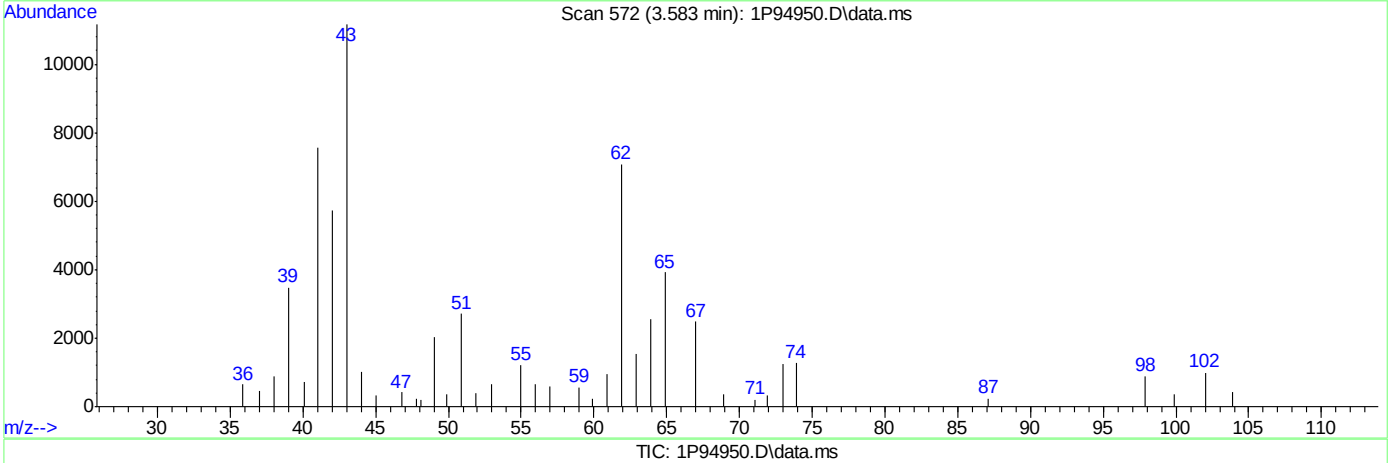
Ion	Exp%	Act%
116.90	100	100
118.90	98.90	95.26
120.90	30.30	33.86
81.90	27.70	93.94#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(50) Isobutyl alcohol

3.583min (-0.002) 27.20ug/L

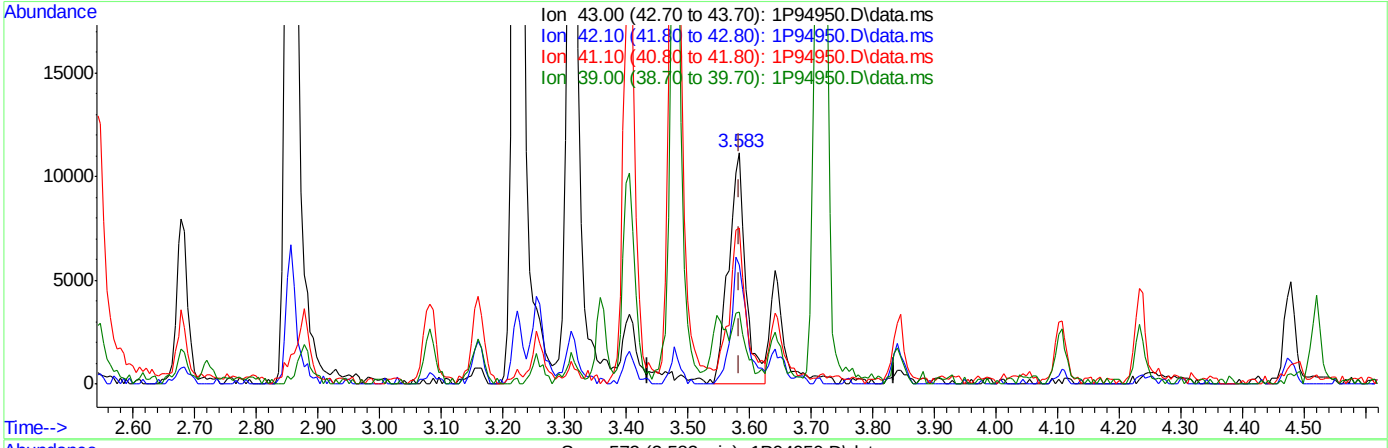
response 18709

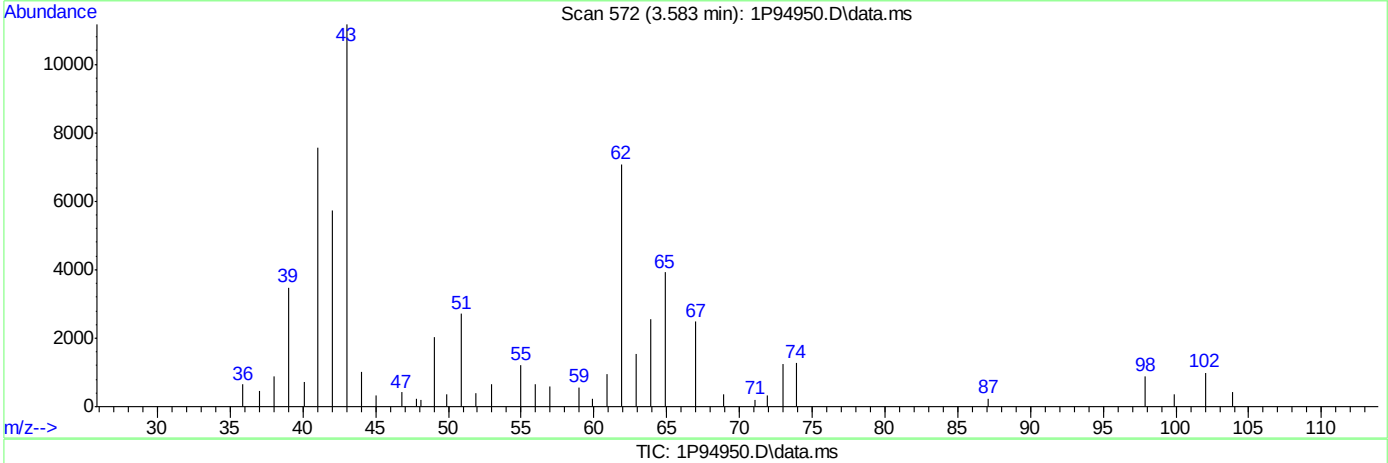
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	51.31
41.10	71.00	61.74
39.00	28.30	24.56

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(50) Isobutyl alcohol

3.583min (-0.002) 31.06ug/L m

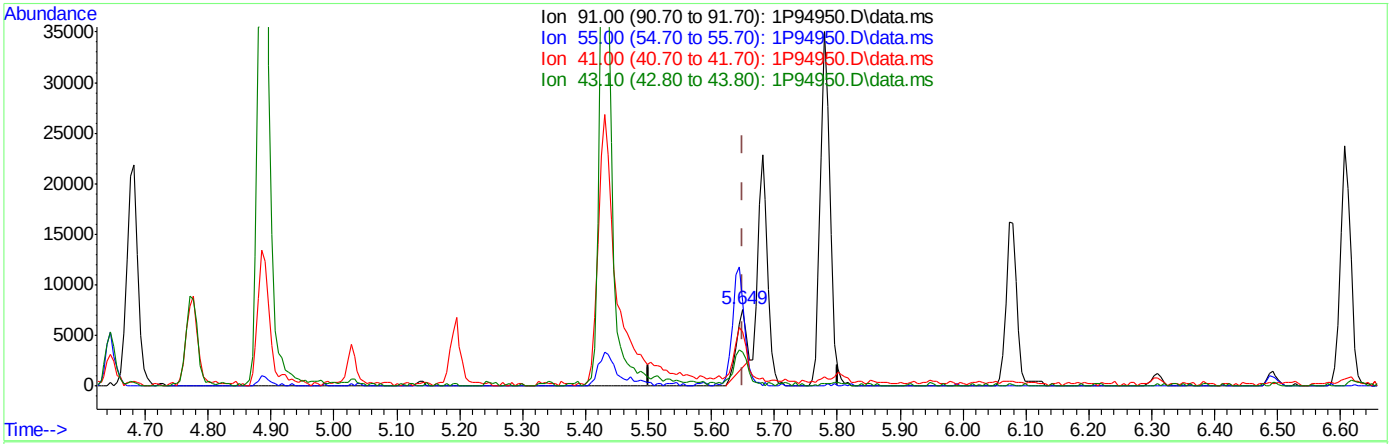
response 21364

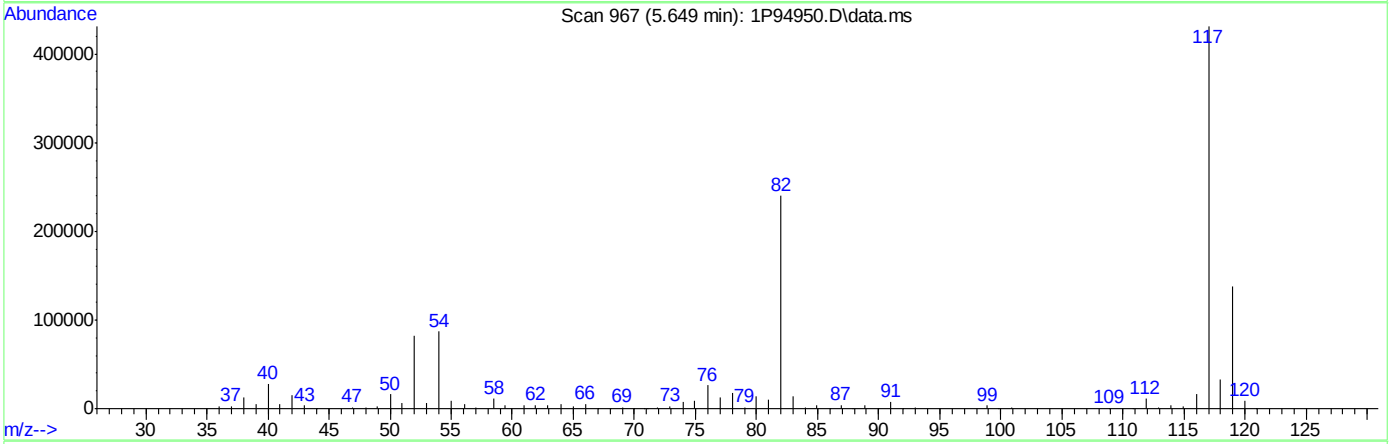
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	51.31
41.10	71.00	67.64
39.00	28.30	31.13

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(76) 1-Chlorohexane

5.649min (-0.002) 0.93ug/L

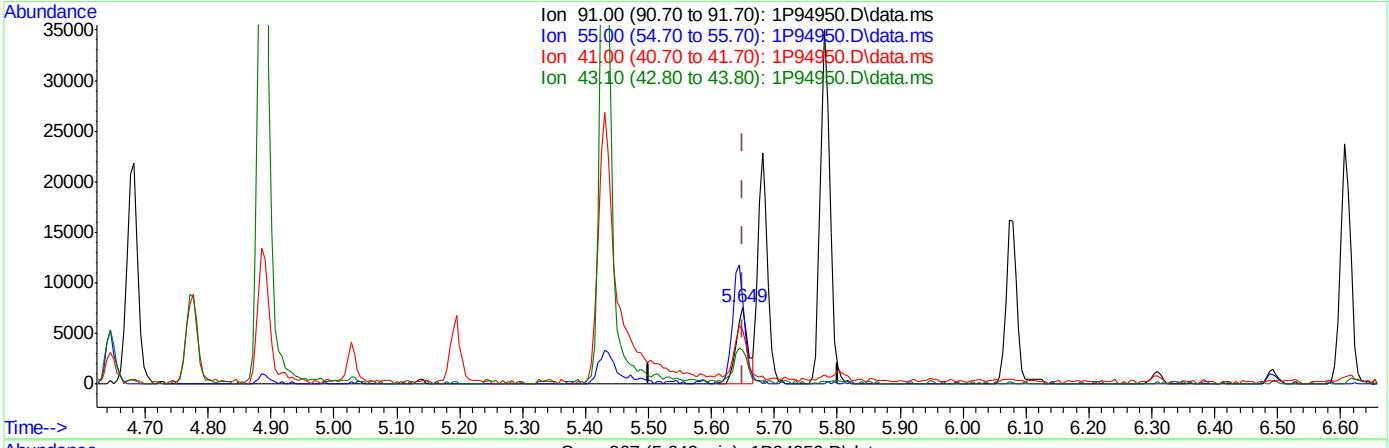
response 5929

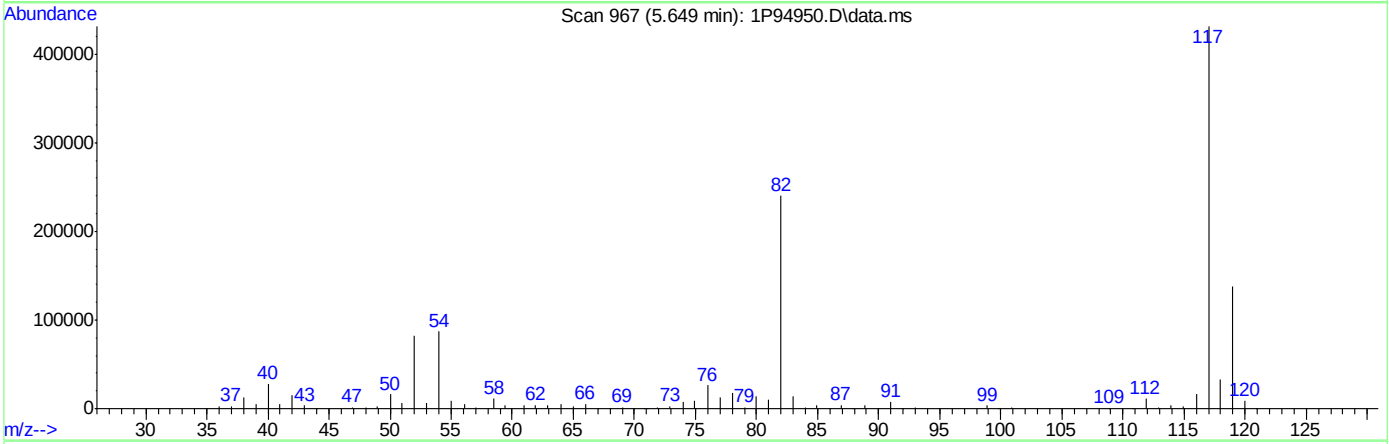
Ion	Exp%	Act%
91.00	100	100
55.00	65.90	98.22#
41.00	54.50	58.96
43.10	42.60	36.51

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(76) 1-Chlorohexane

5.649min (-0.002) 1.51ug/L m

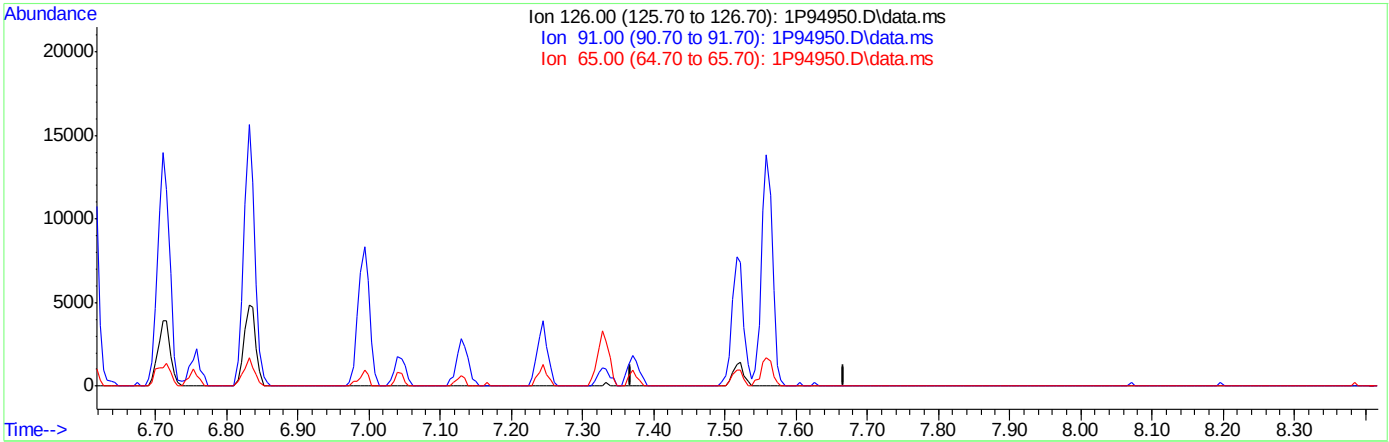
response 9582

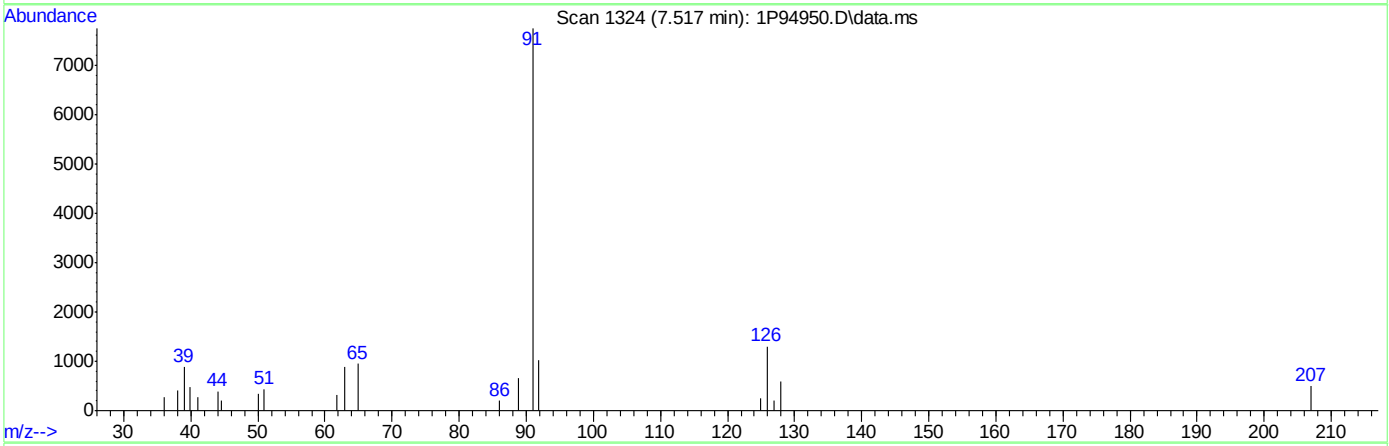
Ion	Exp%	Act%
91.00	100	100
55.00	65.90	109.37#
41.00	54.50	70.46
43.10	42.60	44.72

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(107) Benzyl Chloride

7.518min (-7.518) 0.00ug/L

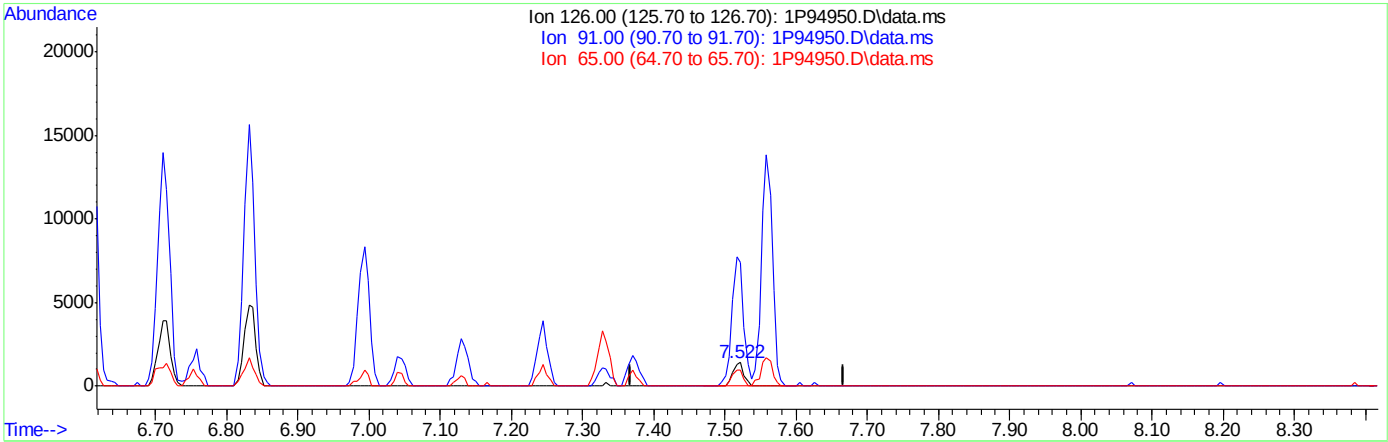
response 0

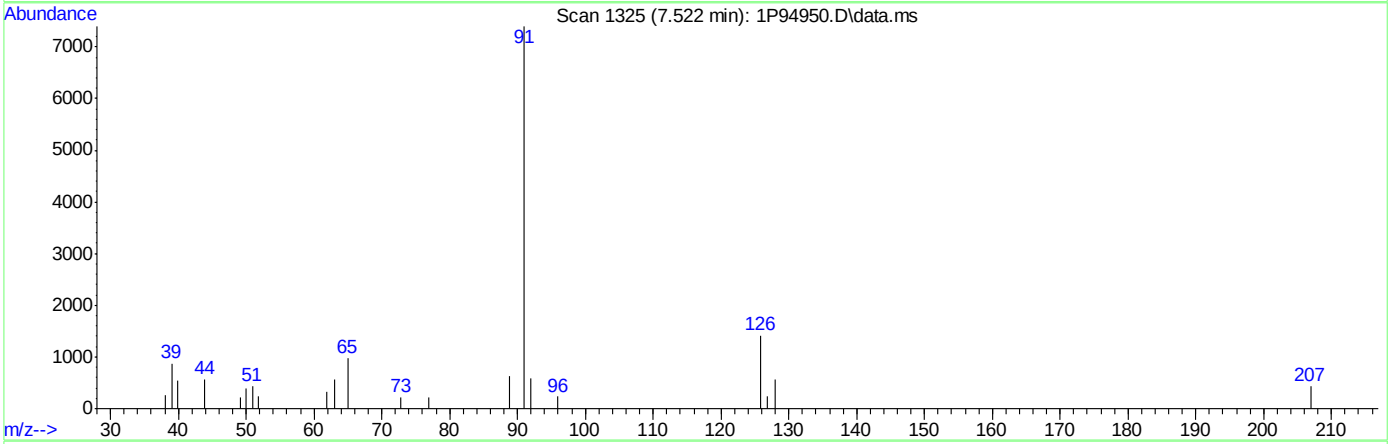
Ion	Exp%	Act%
126.00	100	0.00
91.00	528.70	0.00#
65.00	64.00	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:44:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(107) Benzyl Chloride

7.522min (+0.004) 0.91ug/L m

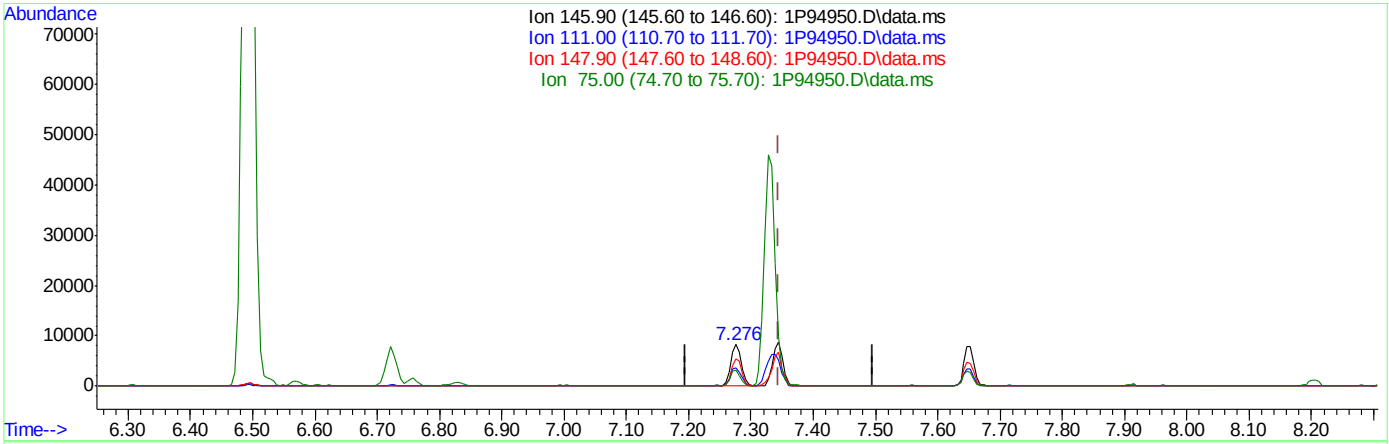
response 1486

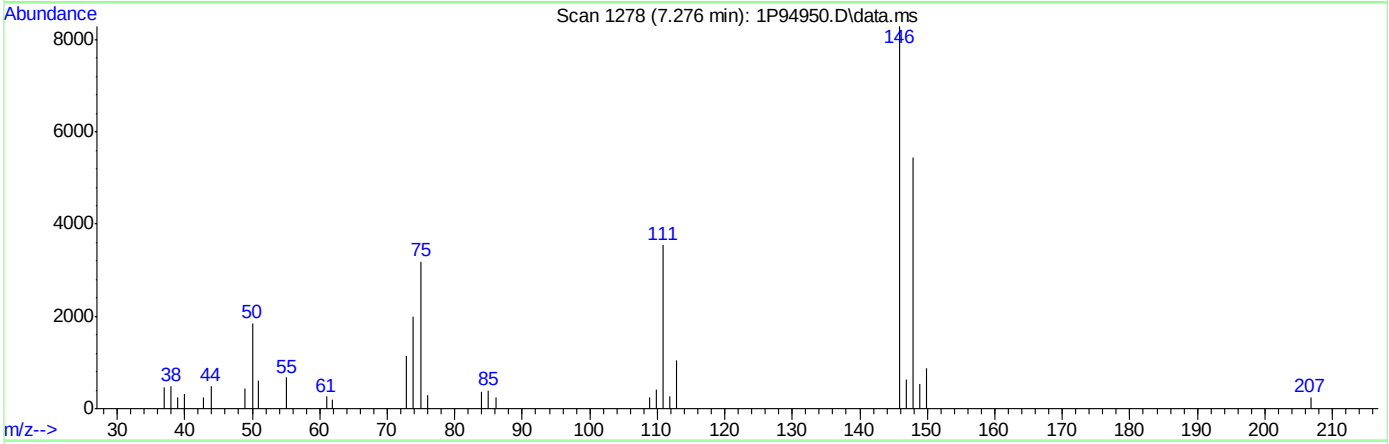
Ion	Exp%	Act%
126.00	100	100
91.00	528.70	521.21
65.00	64.00	69.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:45:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(105) 1,4-Dichlorobenzene

7.276min (-0.070) 1.18ug/L

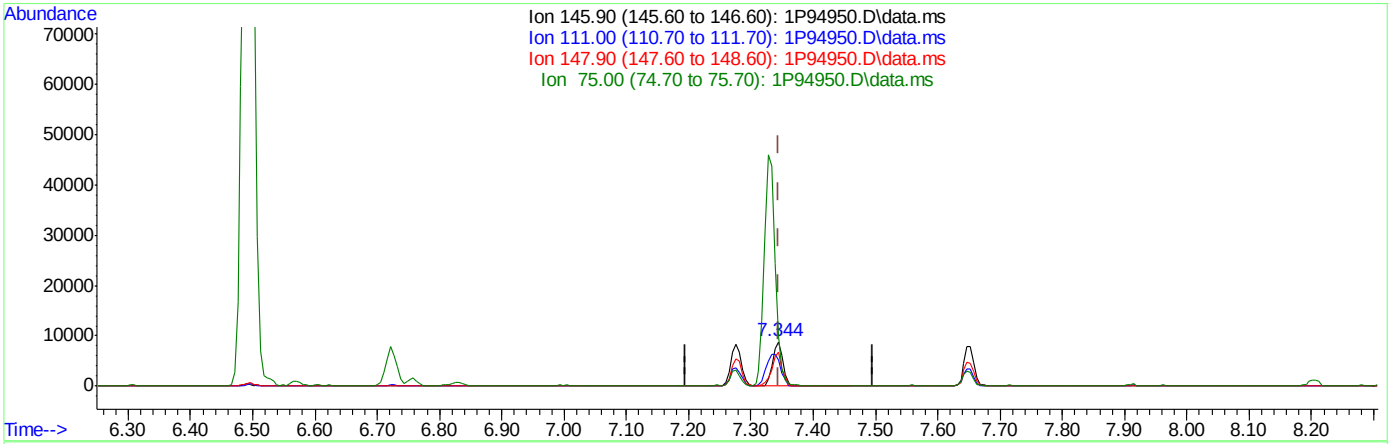
response 9348

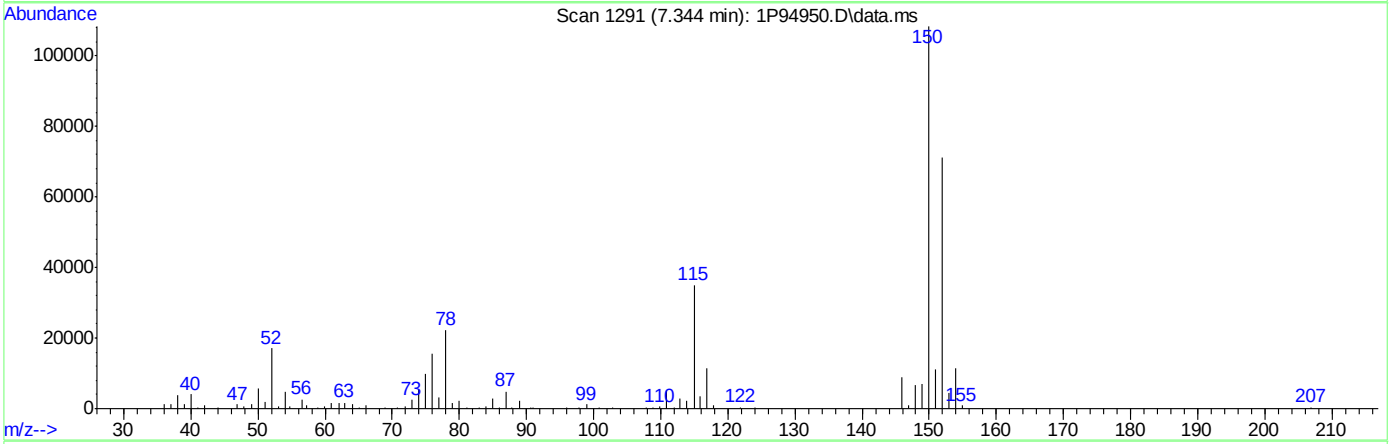
Ion	Exp%	Act%
145.90	100	100
111.00	40.70	42.71
147.90	64.30	65.61
75.00	34.80	38.46

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94950.D
Acq On : 4 Nov 2022 10:24 am
Operator : courtnef
Sample : IC3621-1
Misc : MS52500,V1P3621,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 10:45:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94950.D\data.ms

(105) 1,4-Dichlorobenzene

7.344min (-0.002) 1.22ug/L m

response 9702

Ion	Exp%	Act%
145.90	100	100
111.00	40.70	57.82
147.90	64.30	76.99
75.00	34.80	112.34#

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 11/07/22 17:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94952.D
Acq On : 4 Nov 2022 10:56 am
Operator : courtnef
Sample : IC3621-2
Misc : MS52500,V1P3621,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 11:10:14 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.720	96	1339922	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.640	117	870084	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.329	152	351703	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.260	113	269125	45.61	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 91.22%			
49) 1,2-Dichloroethane-d4	3.548	65	392105	49.45	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.90%			
63) Toluene-d8	4.646	98	1287968	51.57	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.14%			
86) 4-Bromofluorobenzene	6.492	174	269367	44.71	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 89.42%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.116	85	20886	4.65	ug/L	99
3) Chloromethane	1.241	50	32597	7.26	ug/L	93
4) 1,3-butadiene	1.315	39	31007	6.19	ug/L	97
5) Vinyl Chloride	1.299	62	27225	5.56	ug/L	98
6) Bromomethane	1.503	94	3961	2.01	ug/L	89
7) Chloroethane	1.581	64	10470	7.02	ug/L	94
8) Trichlorofluoromethane	1.675	101	31019	5.62	ug/L	96
9) Ethyl Ether	1.874	59	26489	6.01	ug/L	97
10) Ethanol	1.947	45	18903m	142.32	ug/L	
11) 1,2-Dichlorotrifluoroe...	1.974	67	27231	5.12	ug/L	89
12) 1,1-Dichloroethene	1.979	61	30791	4.55	ug/L	98
13) Freon 113	2.015	101	17689	4.30	ug/L #	87
14) Carbon Disulfide	2.000	76	71950	5.96	ug/L	96
15) Iodomethane	2.057	142	3144	1.94	ug/L	92
16) Acrolein	2.151	56	39266	25.68	ug/L	98
17) Allyl chloride	2.245	41	26168	4.84	ug/L	97
18) Methylene Chloride	2.298	49	69733	10.15	ug/L	92
19) Acetone	2.313	43	86558	33.37	ug/L	96
20) Methyl acetate	2.392	43	175606	28.72	ug/L	94
21) trans-1,2-Dichloroethene	2.397	61	31451	4.69	ug/L	94
22) Hexane	2.465	56	15918	4.58	ug/L	98
23) Methyl Tert Butyl Ether	2.465	73	71762	5.25	ug/L	97
24) Tert Butyl Alcohol	2.497	59	84565	75.59	ug/L	90
25) Acetonitrile	2.549	41	60722	64.33	ug/L	98
26) Di-isopropyl ether	2.685	45	77375	5.30	ug/L	93
27) Chloroprene	2.727	53	111427	4.65	ug/L	95
28) 1,1-Dichloroethane	2.727	63	40449	4.81	ug/L	100
29) Acrylonitrile	2.727	52	75319	24.50	ug/L	98
30) ETBE	2.878	59	72474	5.15	ug/L	93
31) Vinyl acetate	2.857	43	271931	24.59	ug/L	98
32) cis-1,2-Dichloroethene	3.020	96	22700	4.47	ug/L	96
33) 2,2-Dichloropropane	3.082	77	32216	4.68	ug/L	97
34) Bromochloromethane	3.124	128	9053	4.00	ug/L	86
35) Cyclohexane	3.161	56	34431	4.65	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94952.D
Acq On : 4 Nov 2022 10:56 am
Operator : courtnef
Sample : IC3621-2
Misc : MS52500,V1P3621,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 11:10:14 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.166	83	39285	4.50	ug/L		95
37) Ethyl acetate	3.224	43	206045	25.24	ug/L		96
38) Tetrahydrofuran	3.255	42	17314	5.63	ug/L		94
40) Carbon Tetrachloride	3.271	117	22113m	3.78	ug/L		
41) 1,1,1-Trichloroethane	3.292	97	31520	4.14	ug/L		95
42) 2-Butanone	3.312	43	124690	25.70	ug/L		97
43) 1,1-Dichloropropene	3.365	75	29511	4.37	ug/L		96
44) tert-Butyl formate	3.407	59	82502	47.96	ug/L	#	76
45) Propionitrile	3.459	54	71133	53.81	ug/L		98
46) Methacrylonitrile	3.480	41	246308	56.40	ug/L		97
47) Benzene	3.496	78	97920	4.83	ug/L		78
48) TAME	3.569	73	66622	5.25	ug/L		90
50) Isobutyl alcohol	3.584	43	86506m	124.16	ug/L		
51) 1,2-Dichloroethane	3.590	62	33349	4.70	ug/L		91
52) Tert Amyl Alcohol	3.647	59	62425	61.48	ug/L		89
53) Trichloroethene	3.825	95	23024	4.36	ug/L		94
54) Methylcyclohexane	3.846	83	29866	4.21	ug/L		97
55) Dibromomethane	4.050	93	12992	4.39	ug/L		90
56) 1,2-Dichloropropane	4.107	63	23721	4.88	ug/L		96
57) Bromodichloromethane	4.144	83	22012	3.88	ug/L		95
58) Methyl methacrylate	4.233	41	25815	4.64	ug/L		92
59) 1,4-Dioxane	4.254	88	11526	110.37	ug/L		96
60) 2-Chloroethyl vinyl ether	4.479	63	36240	8.74	ug/L		92
61) cis-1,3-Dichloropropene	4.521	75	29485	3.94	ug/L		96
64) Toluene	4.683	91	100150	4.72	ug/L		100
65) 2-Nitropropane	4.777	41	42134	22.47	ug/L		91
66) 4-Methyl-2-pentanone	4.887	43	205686	25.04	ug/L		95
67) trans-1,3-Dichloropropene	4.918	75	25634	4.03	ug/L		89
68) Tetrachloroethene	4.939	166	18667	3.90	ug/L		98
69) Ethyl methacrylate	5.028	69	28551	4.21	ug/L		90
70) 1,1,2-Trichloroethane	5.017	83	17330	4.79	ug/L		95
71) Dibromochloromethane	5.143	129	13291	3.54	ug/L		92
72) 1,3-Dichloropropane	5.195	76	37825	4.74	ug/L		91
73) 1,2-Dibromoethane	5.295	107	18160	4.12	ug/L		99
74) 3,3-dimethyl-1-butanol	5.425	57	292368	231.95	ug/L		97
75) 2-hexanone	5.431	43	216791	25.86	ug/L	#	70
76) 1-Chlorohexane	5.650	91	32733m	5.05	ug/L		
77) Ethylbenzene	5.682	91	104756	4.65	ug/L		98
78) Chlorobenzene	5.656	112	56712	4.73	ug/L		94
79) 1,1,1,2-Tetrachloroethane	5.697	131	15457	4.02	ug/L		89
80) m,p-Xylene	5.781	91	155101	8.80	ug/L		98
81) o-Xylene	6.079	91	76220	4.36	ug/L		97
82) Styrene	6.111	104	49705	3.73	ug/L		96
83) Bromoform	6.116	173	6117	3.07	ug/L		94
84) Isopropylbenzene	6.309	105	84037	4.22	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.529	53	8203	4.06	ug/L	#	86
88) n-Propylbenzene	6.607	91	102605	4.57	ug/L		99
89) Bromobenzene	6.571	156	18632	4.13	ug/L		84
90) 1,1,2,2-Tetrachloroethane	6.628	83	28778	4.83	ug/L		94
91) 1,3,5-Trimethylbenzene	6.754	105	65903	4.28	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94952.D
Acq On : 4 Nov 2022 10:56 am
Operator : courtnef
Sample : IC3621-2
Misc : MS52500,V1P3621,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 11:10:14 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

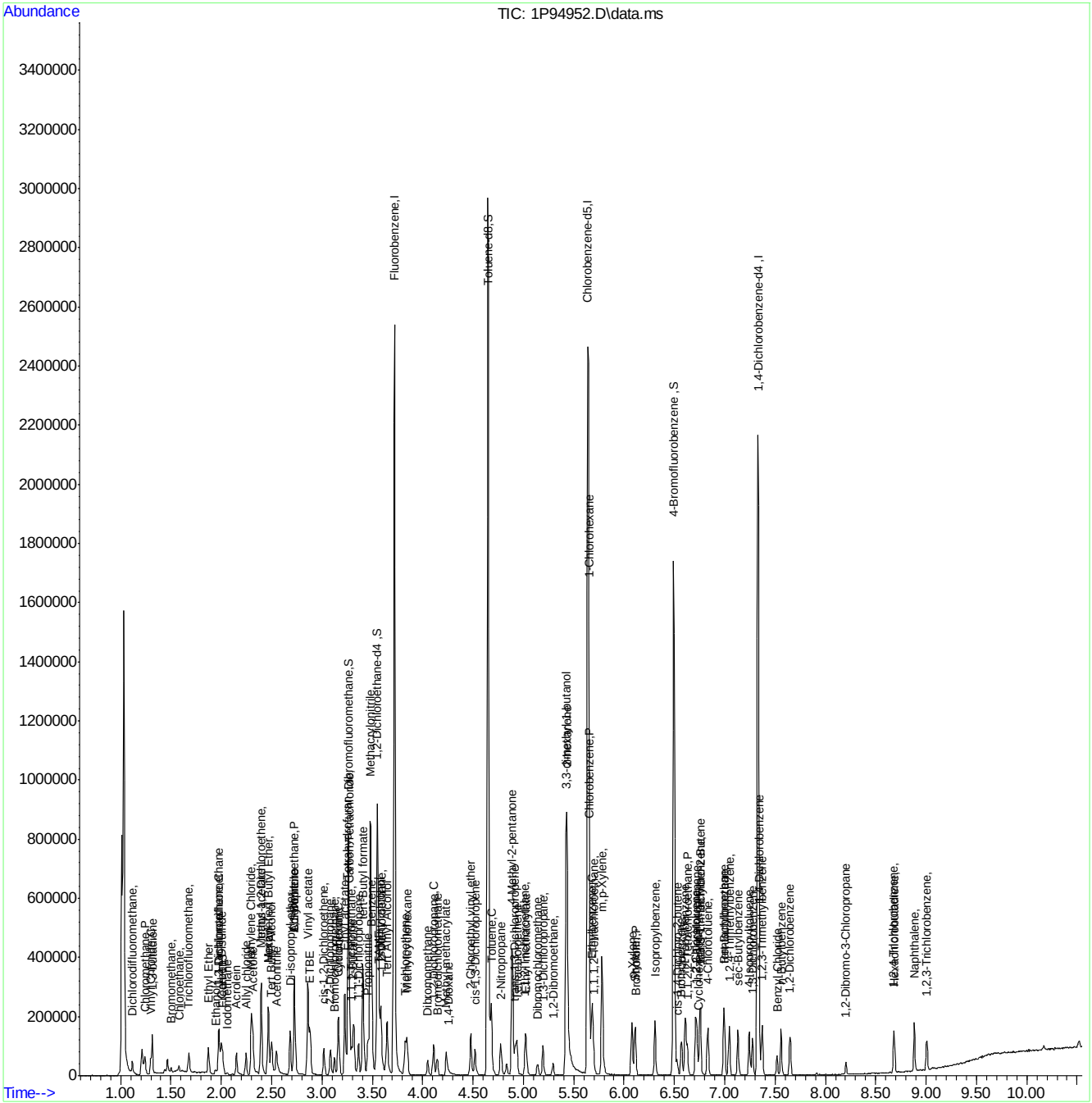
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.712	91	62341	4.62	ug/L		98
93)	trans-1,4-Dichloro-2-B...	6.759	53	10056	4.44	ug/L	#	80
94)	1,2,3-Trichloropropane	6.723	110	10536	4.84	ug/L		95
95)	Cyclohexanone	6.743	55	9377	24.37	ug/L		91
96)	4-Chlorotoluene	6.832	91	64781	4.63	ug/L		99
97)	tert-Butylbenzene	6.994	91	39385	4.48	ug/L		94
99)	1,2,4-Trimethylbenzene	7.047	105	65916	4.45	ug/L		97
100)	Pentachloroethane	6.994	167	7659	4.20	ug/L	#	91
101)	sec-Butylbenzene	7.130	105	73349	4.41	ug/L		97
102)	4-Isopropyltoluene	7.246	119	58946	4.10	ug/L		98
103)	1,3-Dichlorobenzene	7.277	146	34362	4.42	ug/L		95
104)	1,2,3-Trimethylbenzene	7.371	105	65388	4.48	ug/L		98
105)	1,4-Dichlorobenzene	7.345	146	36657	4.57	ug/L		90
106)	n-Butylbenzene	7.559	92	31239	4.52	ug/L		93
107)	Benzyl Chloride	7.523	126	6005	3.56	ug/L		92
108)	1,2-Dichlorobenzene	7.648	146	31726	4.33	ug/L		96
109)	1,2-Dibromo-3-Chloropr...	8.203	75	5822	4.40	ug/L		74
110)	Hexachlorobutadiene	8.684	225	6106	3.87	ug/L		92
111)	1,2,4-Trichlorobenzene	8.679	180	16845	3.97	ug/L		95
112)	Naphthalene	8.883	128	72150	4.24	ug/L		100
113)	1,2,3-Trichlorobenzene	9.008	180	15725	3.86	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94952.D
Acq On : 4 Nov 2022 10:56 am
Operator : courtnef
Sample : IC3621-2
Misc : MS52500,V1P3621,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 11:10:14 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V1P3621-IC3621
Lab FileID: 1P94952.D
Injection Time: 11/04/22 10:56

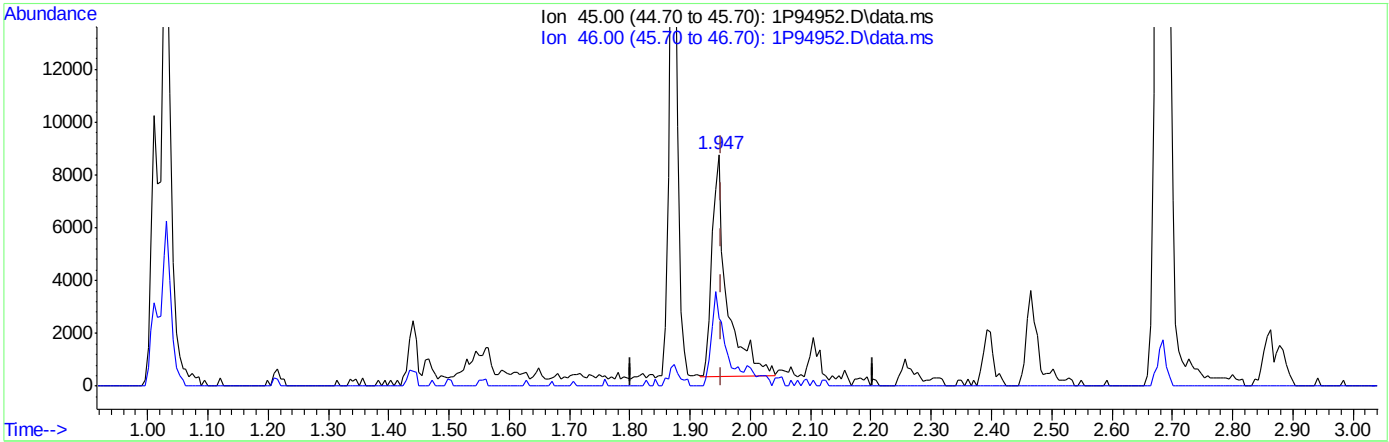
Method: SW846 8260D
Analyst approved: 11/04/22 11:13 Courtney Failla
Supervisor approved: 11/07/22 17:40 Shanica O'Connor

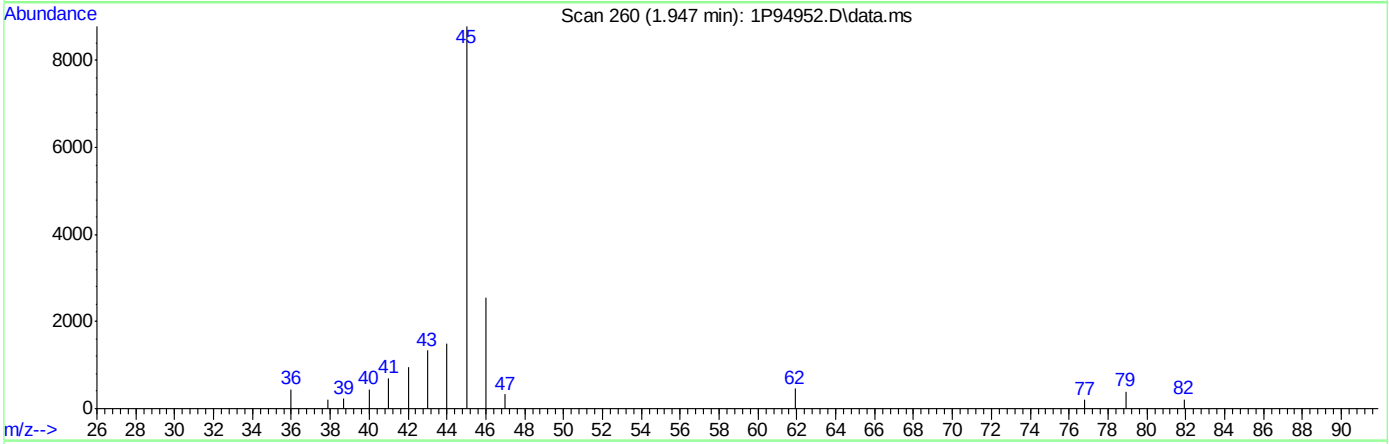
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.95	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.58	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94952.D
Acq On : 4 Nov 2022 10:56 am
Operator : courtnef
Sample : IC3621-2
Misc : MS52500,V1P3621,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 11:08:32 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94952.D\data.ms

(10) Ethanol

1.947min (-0.006) 109.15ug/L

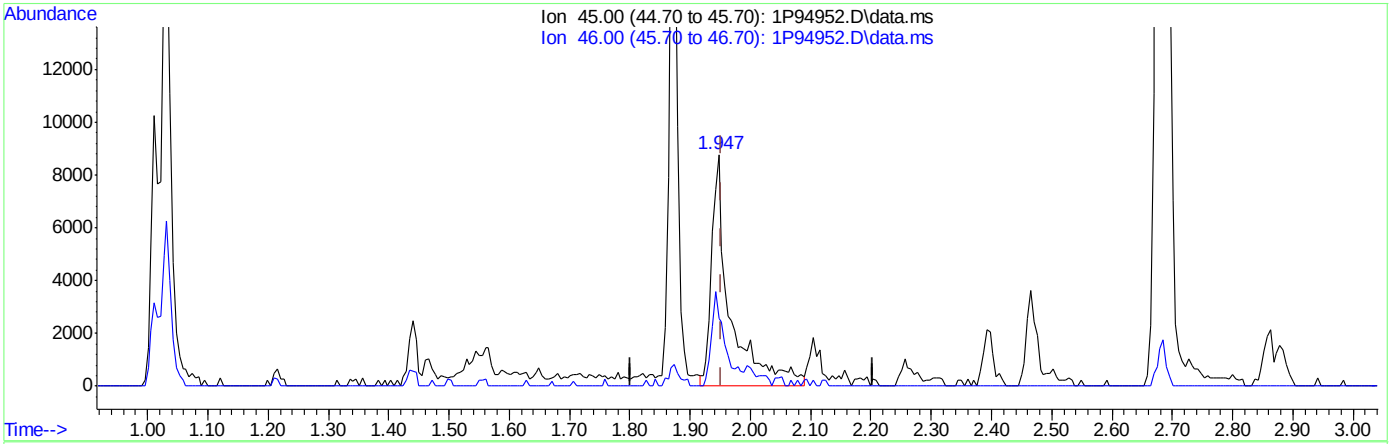
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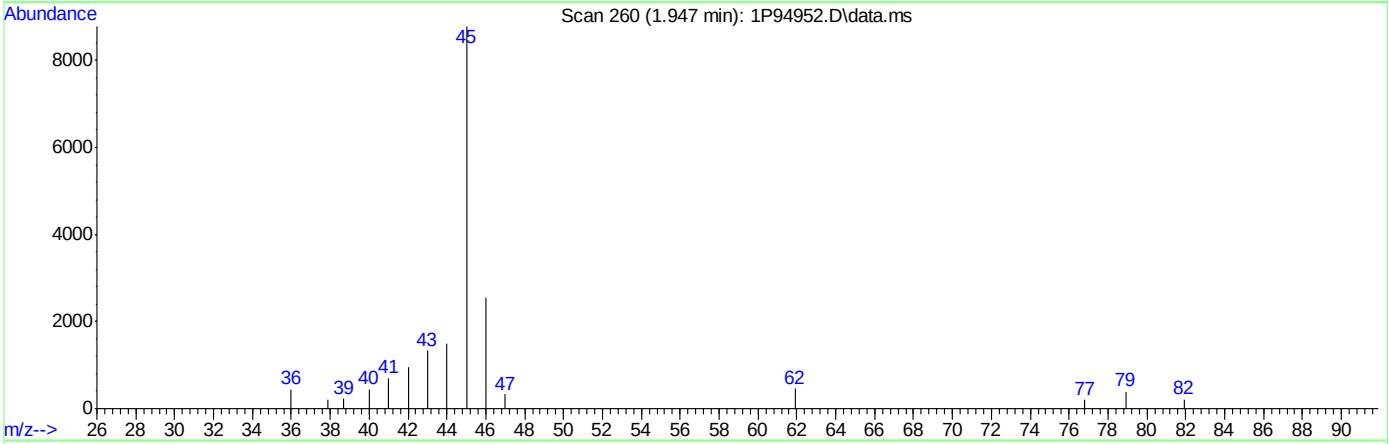
Ion	Exp%	Act%
45.00	100	100
46.00	42.10	30.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94952.D
Acq On : 4 Nov 2022 10:56 am
Operator : courtnef
Sample : IC3621-2
Misc : MS52500,V1P3621,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 11:08:32 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94952.D\data.ms

(10) Ethanol

1.947min (-0.006) 142.32ug/L m

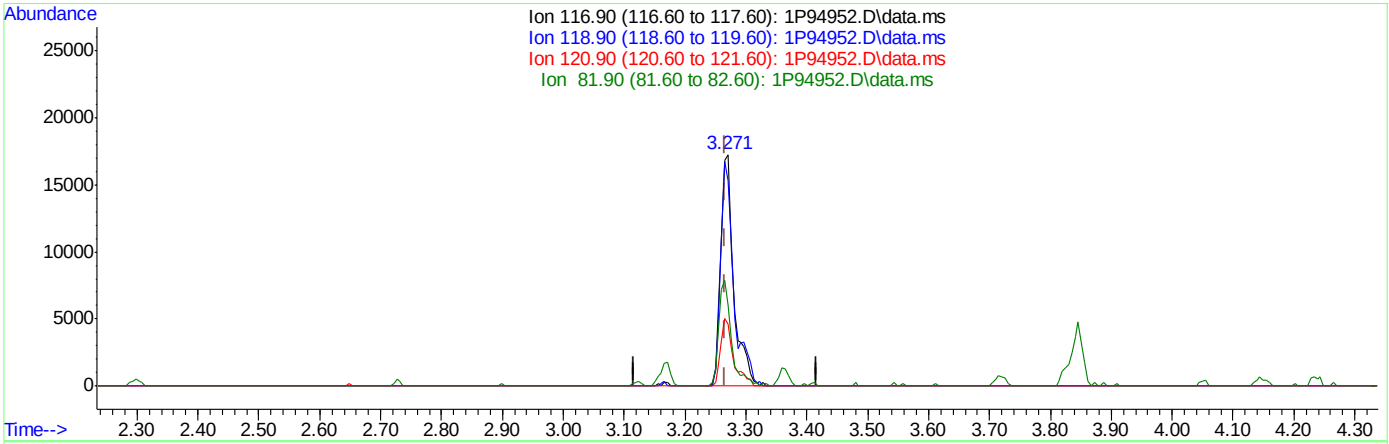
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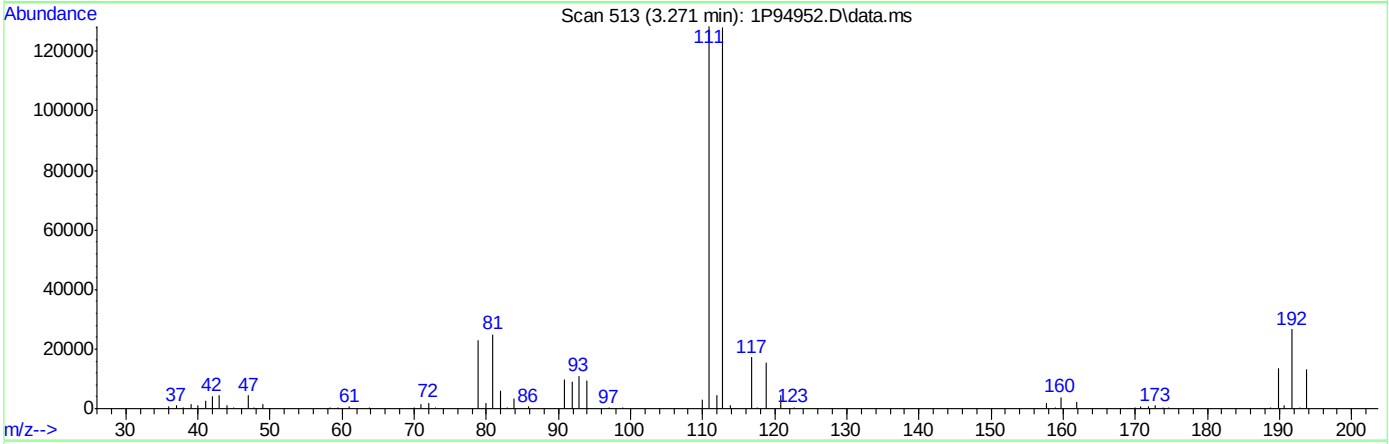
Ion	Exp%	Act%
45.00	100	100
46.00	42.10	29.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94952.D
Acq On : 4 Nov 2022 10:56 am
Operator : courtnef
Sample : IC3621-2
Misc : MS52500,V1P3621,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 11:08:32 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94952.D\data.ms

(40) Carbon Tetrachloride ( )

3.271min (+0.004) 4.33ug/L

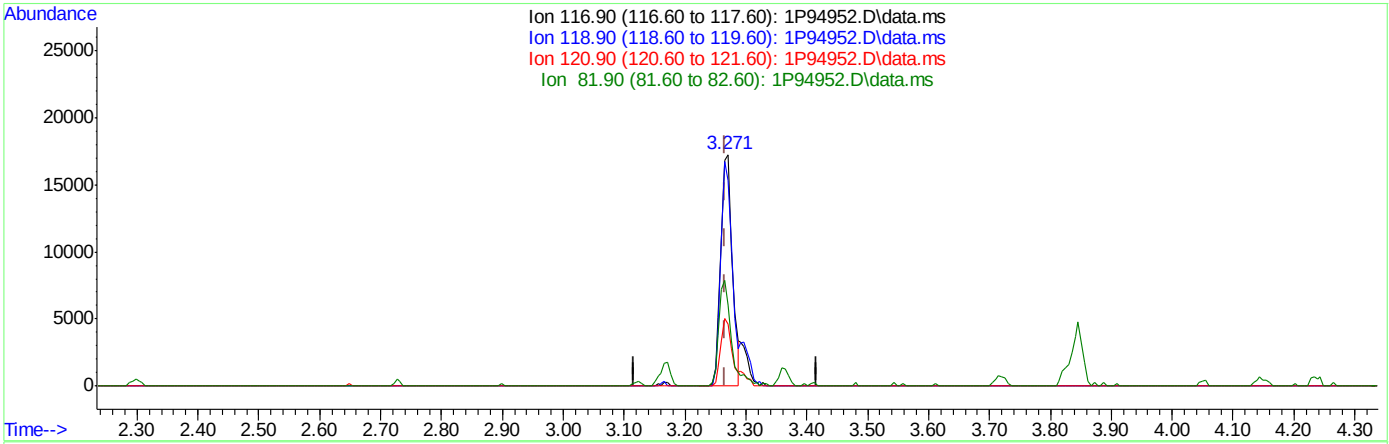
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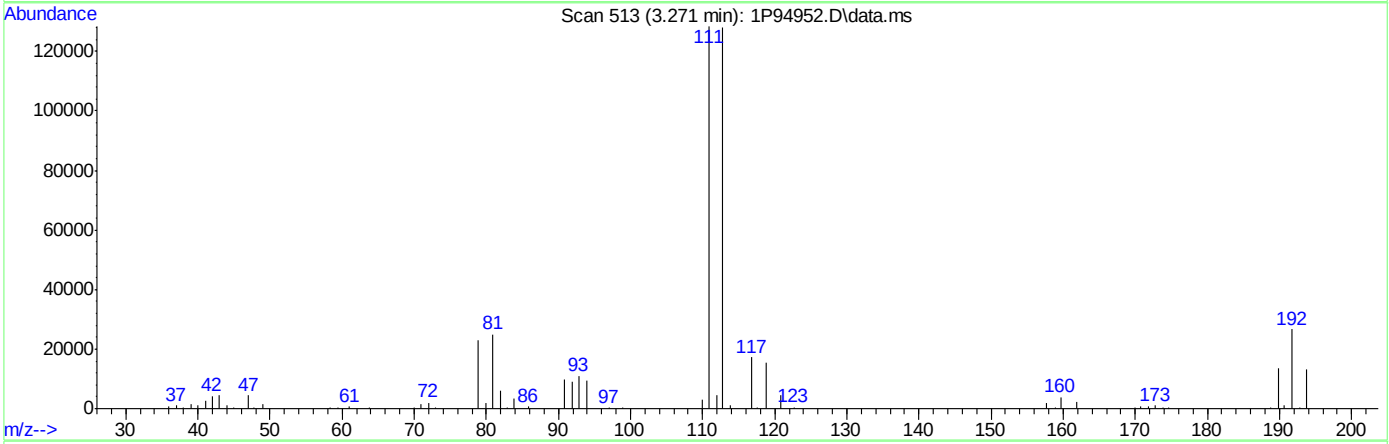
Ion	Exp%	Act%
116.90	100	100
118.90	98.90	87.52
120.90	30.30	26.45
81.90	27.70	34.65

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94952.D
Acq On : 4 Nov 2022 10:56 am
Operator : courtnef
Sample : IC3621-2
Misc : MS52500,V1P3621,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 11:08:32 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94952.D\data.ms

(40) Carbon Tetrachloride ( )

3.271min (+0.004) 3.78ug/L m

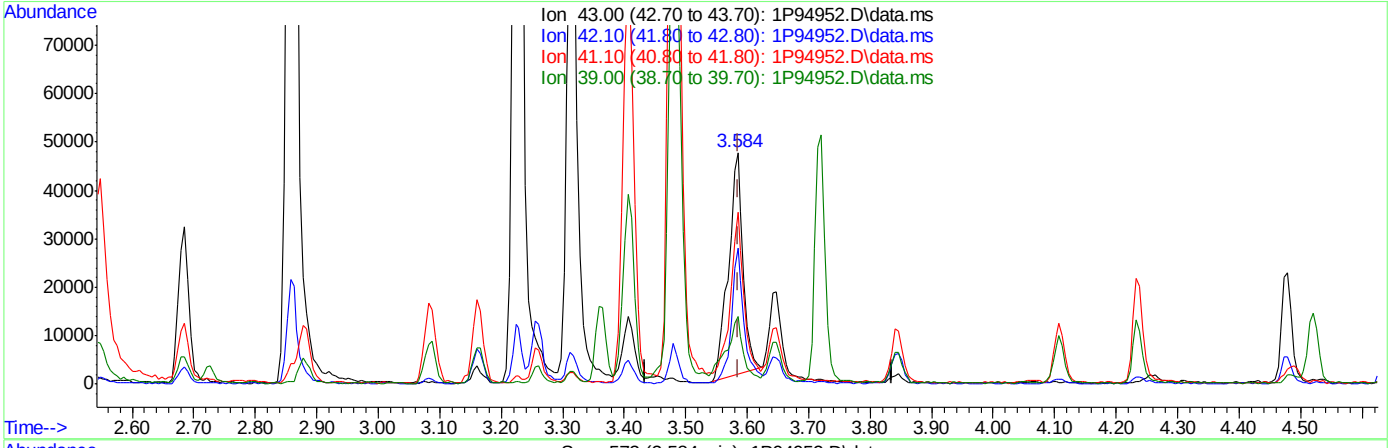
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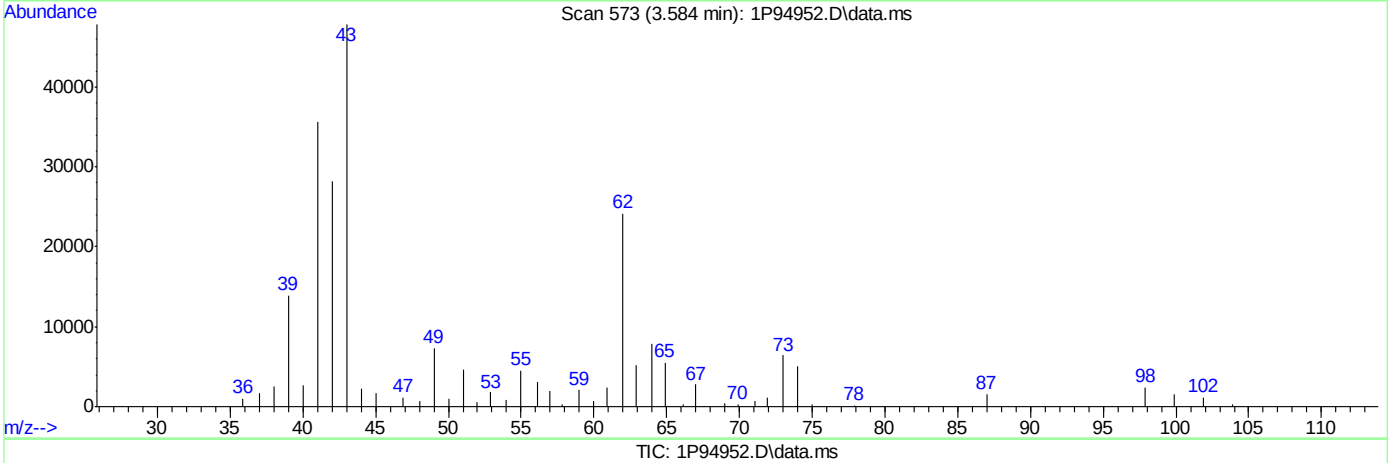
Ion	Exp%	Act%
116.90	100	100
118.90	98.90	88.71
120.90	30.30	26.81
81.90	27.70	35.12

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94952.D
Acq On : 4 Nov 2022 10:56 am
Operator : courtnef
Sample : IC3621-2
Misc : MS52500,V1P3621,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 11:08:32 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94952.D\data.ms

(50) Isobutyl alcohol

3.584min (-0.001) 109.58ug/L

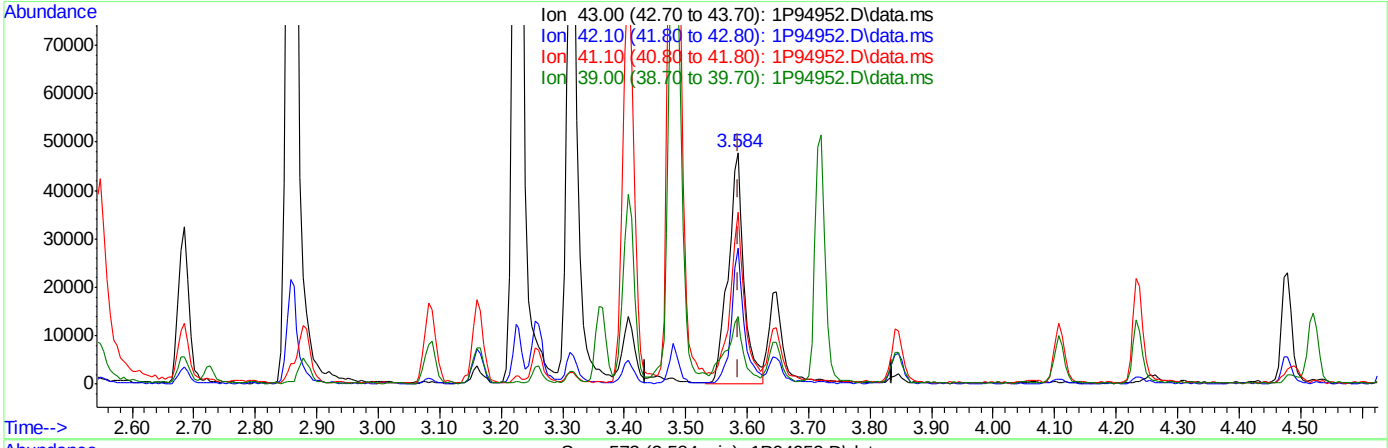
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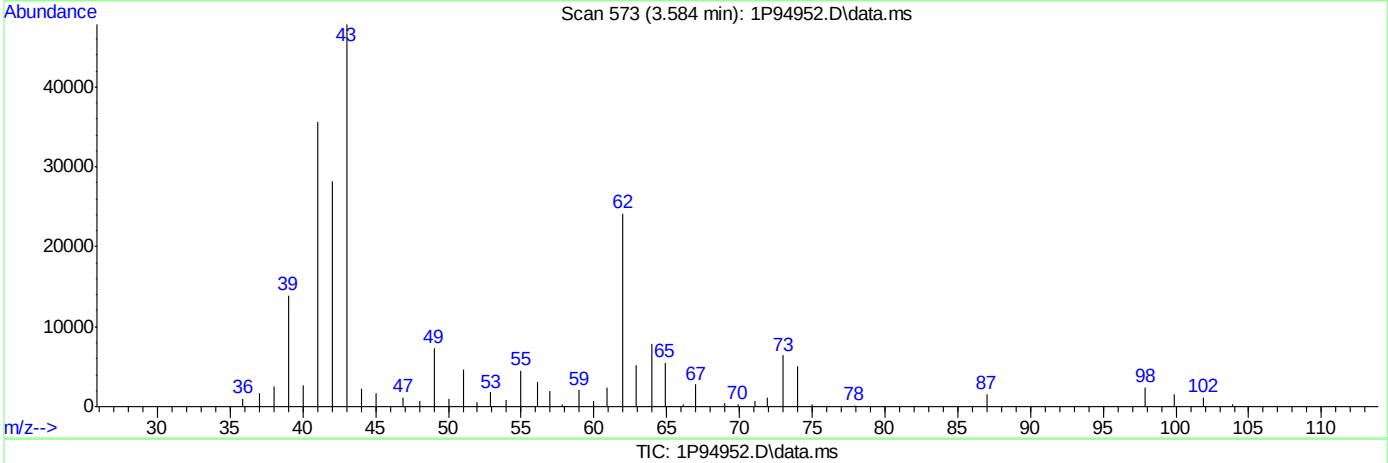
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	59.06
41.10	71.00	70.79
39.00	28.30	25.56

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94952.D
Acq On : 4 Nov 2022 10:56 am
Operator : courtnef
Sample : IC3621-2
Misc : MS52500,V1P3621,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 11:08:32 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94952.D\data.ms

(50) Isobutyl alcohol

3.584min (-0.001) 124.16ug/L m

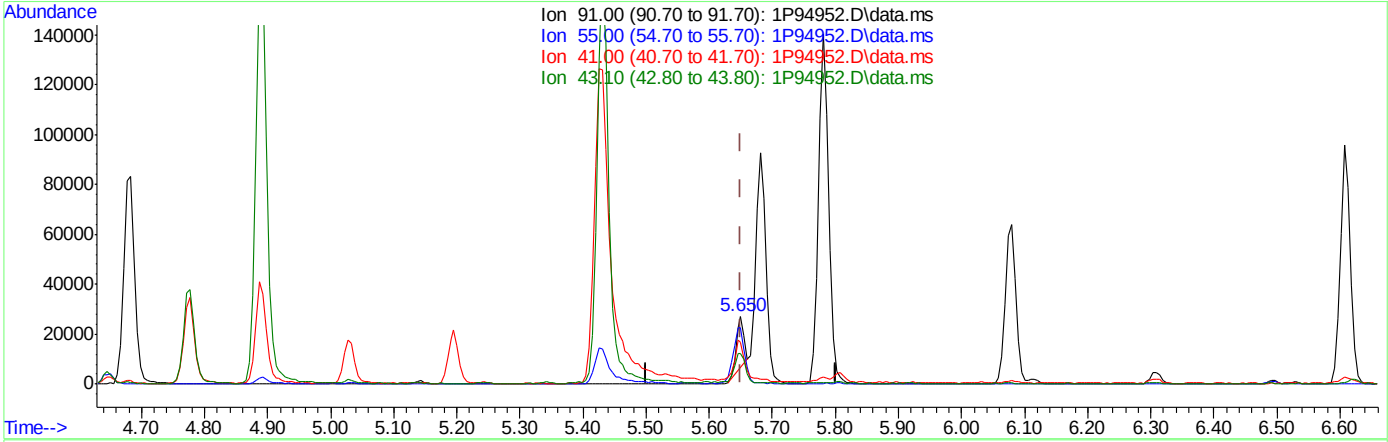
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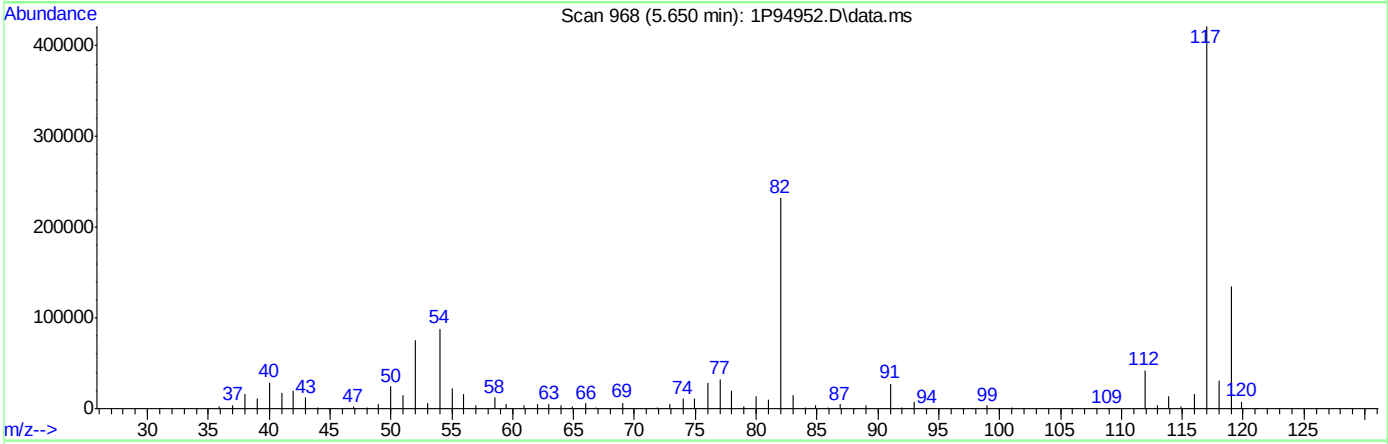
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	58.94
41.10	71.00	74.43
39.00	28.30	29.12

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94952.D
Acq On : 4 Nov 2022 10:56 am
Operator : courtnef
Sample : IC3621-2
Misc : MS52500,V1P3621,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 11:08:32 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94952.D\data.ms

(76) 1-Chlorohexane

5.650min (-0.001) 2.95ug/L

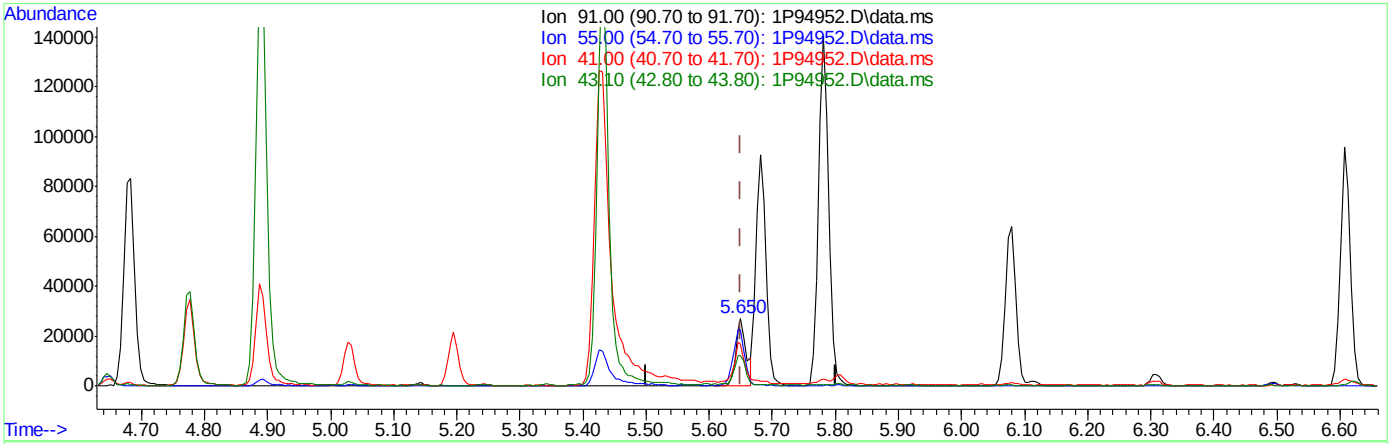
response 19121

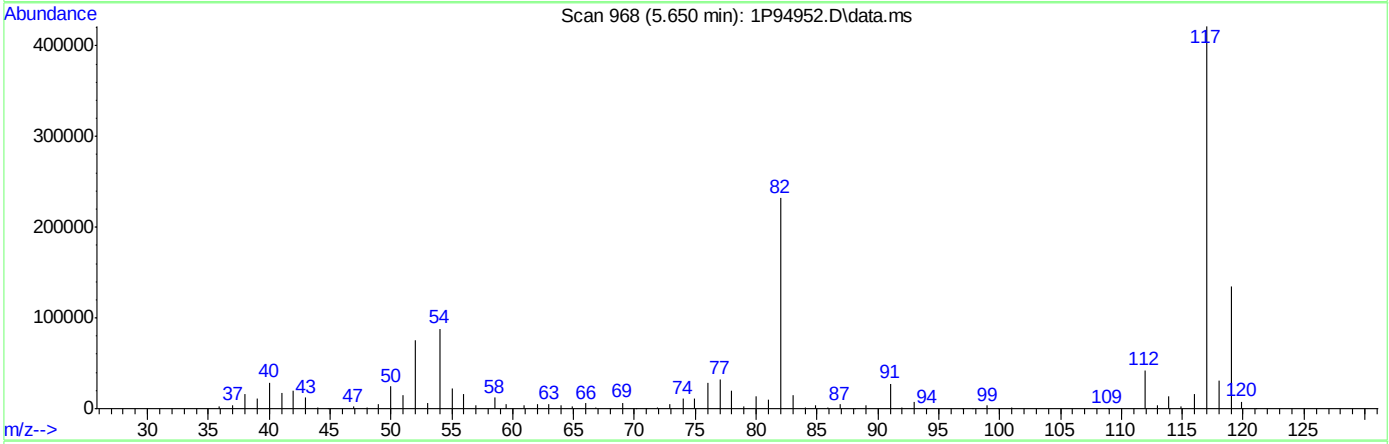
Ion	Exp%	Act%
91.00	100	100
55.00	65.90	75.46
41.00	54.50	52.86
43.10	42.60	42.26

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94952.D
Acq On : 4 Nov 2022 10:56 am
Operator : courtnef
Sample : IC3621-2
Misc : MS52500,V1P3621,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 11:08:32 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94952.D\data.ms

(76) 1-Chlorohexane

5.650min (-0.001) 5.05ug/L m

response 32733

Ion	Exp%	Act%
91.00	100	100
55.00	65.90	83.88
41.00	54.50	62.38
43.10	42.60	45.09

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 11/07/22 17:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94954.D
Acq On : 4 Nov 2022 11:29 am
Operator : courtnef
Sample : IC3621-3
Misc : MS52500,V1P3621,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 11:44:44 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.717	96	1385012	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.642	117	902143	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.331	152	372623	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.262	113	285747	46.85	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 93.70%			
49) 1,2-Dichloroethane-d4	3.550	65	414961	50.63	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.26%			
63) Toluene-d8	4.648	98	1323189	51.10	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.20%			
86) 4-Bromofluorobenzene	6.494	174	285750	44.77	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 89.54%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.112	85	46406	10.00	ug/L	97
3) Chloromethane	1.233	50	69300	14.93	ug/L	98
4) 1,3-butadiene	1.306	39	65862	12.87	ug/L	94
5) Vinyl Chloride	1.295	62	61193	12.09	ug/L	98
6) Bromomethane	1.494	94	7648	3.75	ug/L	94
7) Chloroethane	1.573	64	25721	16.80	ug/L	96
8) Trichlorofluoromethane	1.672	101	70345	12.33	ug/L	98
9) Ethyl Ether	1.865	59	58712	12.89	ug/L	97
10) Ethanol	1.939	45	43141m	332.45	ug/L	
11) 1,2-Dichlorotrifluoroe...	1.965	67	64663	11.76	ug/L	92
12) 1,1-Dichloroethene	1.975	61	76949	10.99	ug/L	99
13) Freon 113	2.007	101	42553	10.00	ug/L	91
14) Carbon Disulfide	1.991	76	153885	12.34	ug/L	97
15) Iodomethane	2.049	142	7040	4.13	ug/L	94
16) Acrolein	2.148	56	80219	50.76	ug/L	99
17) Allyl chloride	2.242	41	64735	11.59	ug/L	92
18) Methylene Chloride	2.294	49	112706	16.10	ug/L	94
19) Acetone	2.310	43	187026	69.76	ug/L	97
20) Methyl acetate	2.389	43	414998	65.66	ug/L	96
21) trans-1,2-Dichloroethene	2.394	61	73689	10.64	ug/L	97
22) Hexane	2.462	56	38839	10.82	ug/L	97
23) Methyl Tert Butyl Ether	2.462	73	172785	12.23	ug/L	97
24) Tert Butyl Alcohol	2.493	59	188425	162.95	ug/L	90
25) Acetonitrile	2.545	41	133592	140.28	ug/L	99
26) Di-isopropyl ether	2.681	45	184551	12.24	ug/L	95
27) Chloroprene	2.723	53	289547	11.69	ug/L	94
28) 1,1-Dichloroethane	2.723	63	98321	11.31	ug/L	98
29) Acrylonitrile	2.723	52	191518	60.27	ug/L	97
30) ETBE	2.875	59	179138	12.25	ug/L	97
31) Vinyl acetate	2.854	43	736240	64.40	ug/L	98
32) cis-1,2-Dichloroethene	3.016	96	52960	10.10	ug/L	94
33) 2,2-Dichloropropane	3.084	77	78561	11.05	ug/L	96
34) Bromochloromethane	3.121	128	21683	9.26	ug/L #	81
35) Cyclohexane	3.157	56	83636	10.94	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94954.D
Acq On : 4 Nov 2022 11:29 am
Operator : courtnef
Sample : IC3621-3
Misc : MS52500,V1P3621,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 11:44:44 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.163	83	93059	10.32	ug/L		97
37) Ethyl acetate	3.225	43	536352	63.56	ug/L		98
38) Tetrahydrofuran	3.251	42	38880	12.24	ug/L		95
40) Carbon Tetrachloride	3.267	117	55094m	9.10	ug/L		
41) 1,1,1-Trichloroethane	3.288	97	78706	10.00	ug/L		95
42) 2-Butanone	3.309	43	294060	58.64	ug/L		98
43) 1,1-Dichloropropene	3.361	75	72759	10.42	ug/L		97
44) tert-Butyl formate	3.403	59	183098	98.39	ug/L	#	71
45) Propionitrile	3.455	54	168131	123.05	ug/L		97
46) Methacrylonitrile	3.476	41	601897	133.33	ug/L		98
47) Benzene	3.492	78	235633	11.25	ug/L		84
48) TAME	3.565	73	165885	12.54	ug/L		91
50) Isobutyl alcohol	3.581	43	203688m	282.82	ug/L		
51) 1,2-Dichloroethane	3.586	62	78413	10.69	ug/L		93
52) Tert Amyl Alcohol	3.644	59	145074	139.40	ug/L		86
53) Trichloroethene	3.822	95	54508	10.00	ug/L		92
54) Methylcyclohexane	3.842	83	75293	10.26	ug/L		97
55) Dibromomethane	4.046	93	30502	9.98	ug/L		91
56) 1,2-Dichloropropane	4.104	63	55487	11.05	ug/L		96
57) Bromodichloromethane	4.146	83	55857	9.44	ug/L		98
58) Methyl methacrylate	4.235	41	59355	10.33	ug/L		96
59) 1,4-Dioxane	4.256	88	25088	232.45	ug/L		92
60) 2-Chloroethyl vinyl ether	4.475	63	73254	17.10	ug/L		93
61) cis-1,3-Dichloropropene	4.517	75	74712	9.62	ug/L		91
64) Toluene	4.679	91	235586	10.71	ug/L		98
65) 2-Nitropropane	4.773	41	110492	55.92	ug/L		98
66) 4-Methyl-2-pentanone	4.889	43	494618	58.08	ug/L		95
67) trans-1,3-Dichloropropene	4.915	75	65759	9.90	ug/L		89
68) Tetrachloroethene	4.936	166	45419	9.16	ug/L		97
69) Ethyl methacrylate	5.030	69	74662	10.61	ug/L		96
70) 1,1,2-Trichloroethane	5.019	83	41089	10.94	ug/L		98
71) Dibromochloromethane	5.140	129	33889	8.61	ug/L		99
72) 1,3-Dichloropropane	5.192	76	90955	11.00	ug/L		90
73) 1,2-Dibromoethane	5.291	107	46203	10.12	ug/L		99
74) 3,3-dimethyl-1-butanol	5.422	57	695294	532.02	ug/L		97
75) 2-hexanone	5.427	43	533721	61.40	ug/L	#	66
76) 1-Chlorohexane	5.647	91	68901m	10.26	ug/L		
77) Ethylbenzene	5.678	91	249946	10.70	ug/L		99
78) Chlorobenzene	5.652	112	133365	10.73	ug/L		91
79) 1,1,1,2-Tetrachloroethane	5.694	131	38591	9.67	ug/L		98
80) m,p-Xylene	5.783	91	382431	20.93	ug/L		98
81) o-Xylene	6.076	91	190431	10.51	ug/L		97
82) Styrene	6.107	104	131239	9.50	ug/L		96
83) Bromoform	6.118	173	16834	8.02	ug/L		96
84) Isopropylbenzene	6.306	105	208465	10.10	ug/L		97
87) cis-1,4-Dichloro-2-butene	6.526	53	20812	9.73	ug/L		84
88) n-Propylbenzene	6.609	91	251748	10.59	ug/L		100
89) Bromobenzene	6.567	156	44703	9.35	ug/L	#	77
90) 1,1,2,2-Tetrachloroethane	6.630	83	71888	11.38	ug/L		97
91) 1,3,5-Trimethylbenzene	6.756	105	170147	10.42	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94954.D
Acq On : 4 Nov 2022 11:29 am
Operator : courtnef
Sample : IC3621-3
Misc : MS52500,V1P3621,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 11:44:44 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

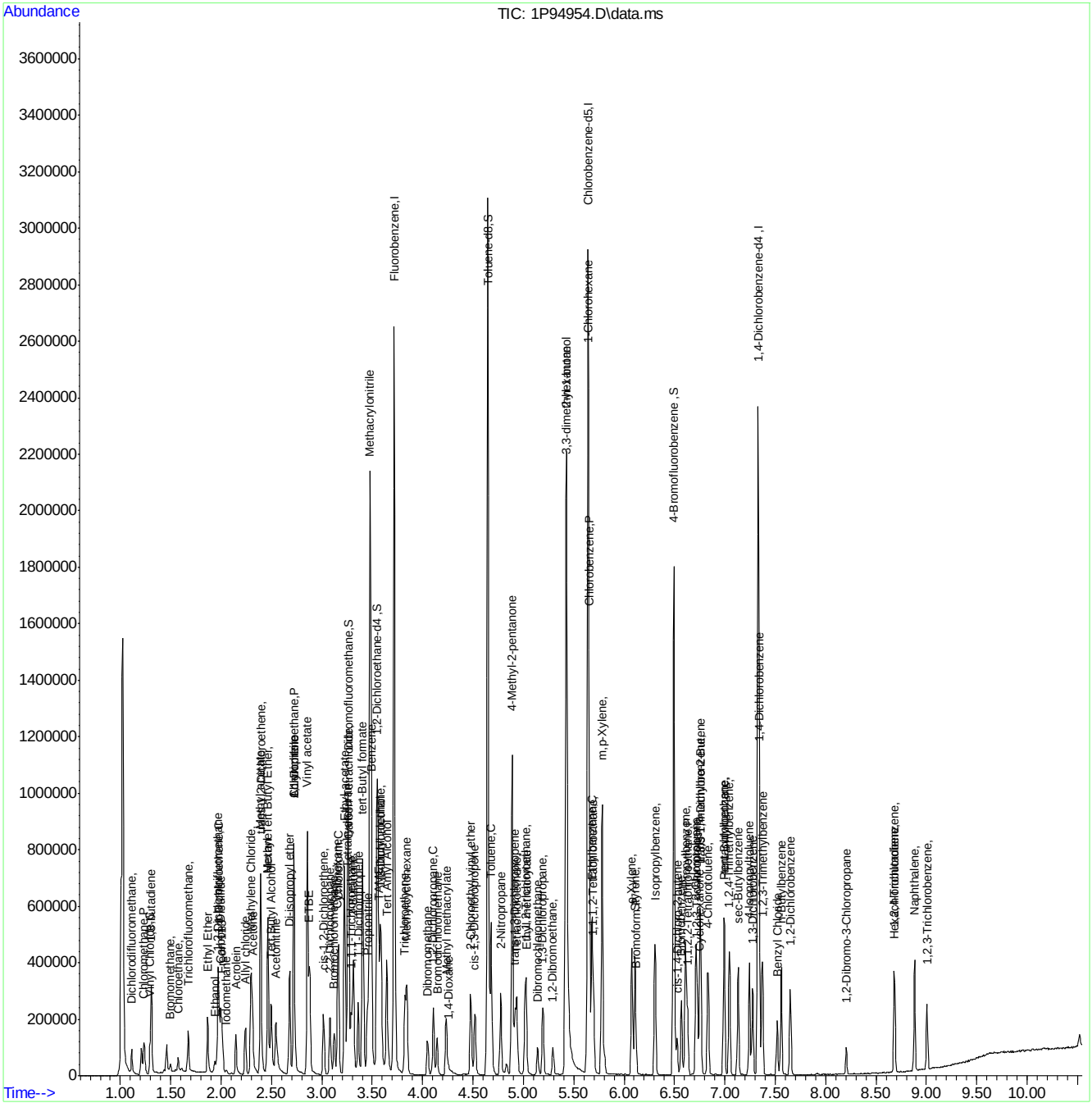
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 2-Chlorotoluene	6.714	91	151589	10.61	ug/L		97
93) trans-1,4-Dichloro-2-B...	6.756	53	24474	10.20	ug/L		87
94) 1,2,3-Trichloropropane	6.724	110	25291	10.97	ug/L		97
95) Cyclohexanone	6.745	55	27577	67.65	ug/L		93
96) 4-Chlorotoluene	6.829	91	161567	10.89	ug/L		95
97) tert-Butylbenzene	6.991	91	94085	10.10	ug/L		93
99) 1,2,4-Trimethylbenzene	7.043	105	164732	10.49	ug/L		99
100) Pentachloroethane	6.996	167	17949	9.21	ug/L	#	78
101) sec-Butylbenzene	7.132	105	186201	10.57	ug/L		98
102) 4-Isopropyltoluene	7.242	119	154085	10.12	ug/L		98
103) 1,3-Dichlorobenzene	7.273	146	83325	10.11	ug/L		95
104) 1,2,3-Trimethylbenzene	7.373	105	162452	10.51	ug/L		99
105) 1,4-Dichlorobenzene	7.341	146	87275	10.26	ug/L		91
106) n-Butylbenzene	7.561	92	79471	10.86	ug/L		99
107) Benzyl Chloride	7.519	126	16716	9.09	ug/L	#	87
108) 1,2-Dichlorobenzene	7.650	146	76385	9.84	ug/L		97
109) 1,2-Dibromo-3-Chloropr...	8.204	75	14459	10.12	ug/L		85
110) Hexachlorobutadiene	8.686	225	14034	8.40	ug/L		94
111) 1,2,4-Trichlorobenzene	8.680	180	41464	9.22	ug/L		95
112) Naphthalene	8.884	128	178086	9.87	ug/L		99
113) 1,2,3-Trichlorobenzene	9.010	180	38571	8.93	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94954.D
Acq On : 4 Nov 2022 11:29 am
Operator : courtnef
Sample : IC3621-3
Misc : MS52500,V1P3621,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 11:44:44 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V1P3621-IC3621
Lab FileID: 1P94954.D
Injection Time: 11/04/22 11:29

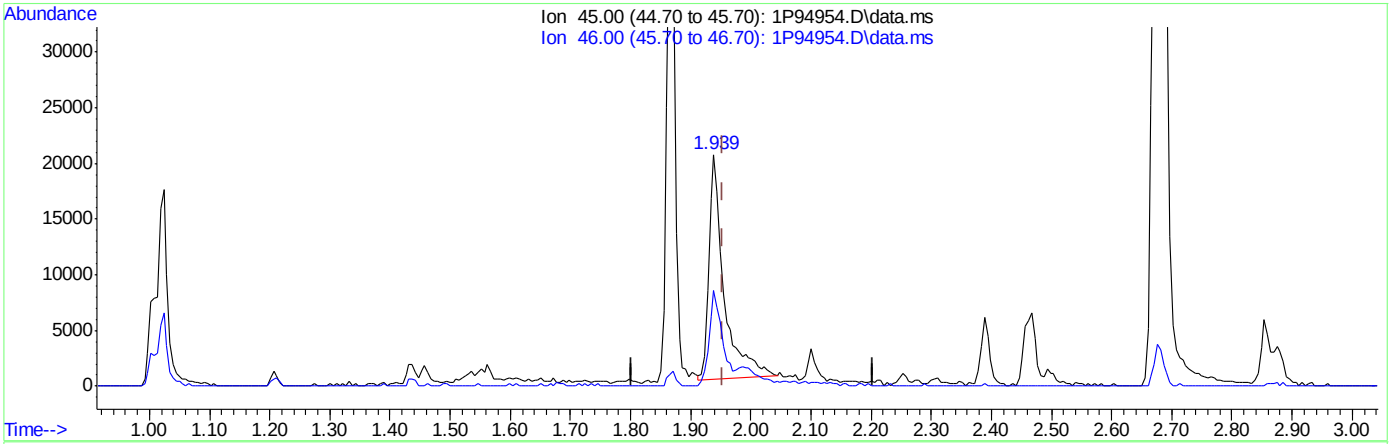
Method: SW846 8260D
Analyst approved: 11/04/22 12:44 Courtney Failla
Supervisor approved: 11/07/22 17:40 Shanica O'Connor

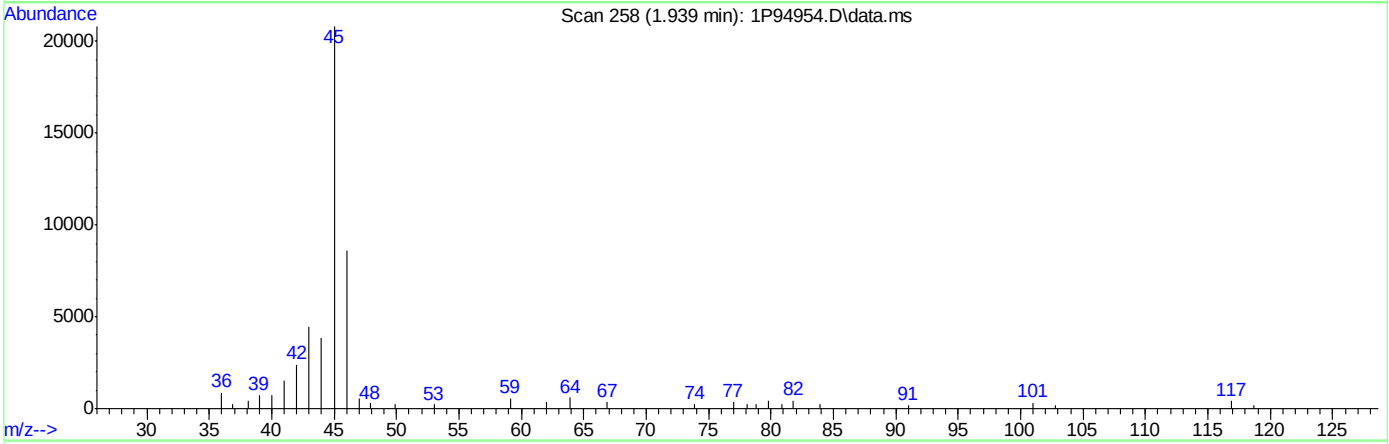
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.94	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.58	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94954.D
Acq On : 4 Nov 2022 11:29 am
Operator : courtnef
Sample : IC3621-3
Misc : MS52500,V1P3621,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 11:43:17 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94954.D\data.ms

(10) Ethanol

1.939min (-0.014) 267.90ug/L

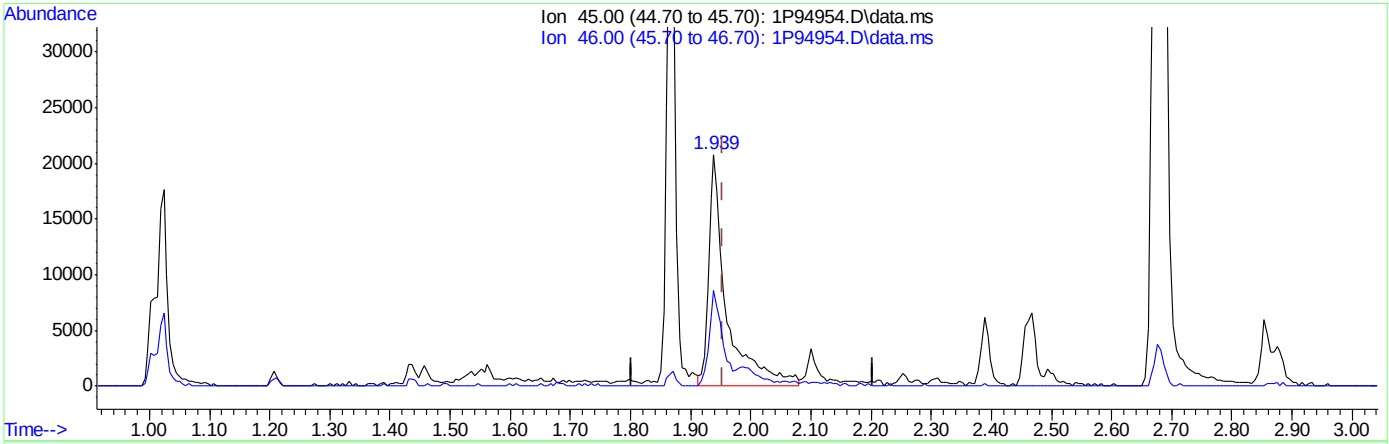
response 35449

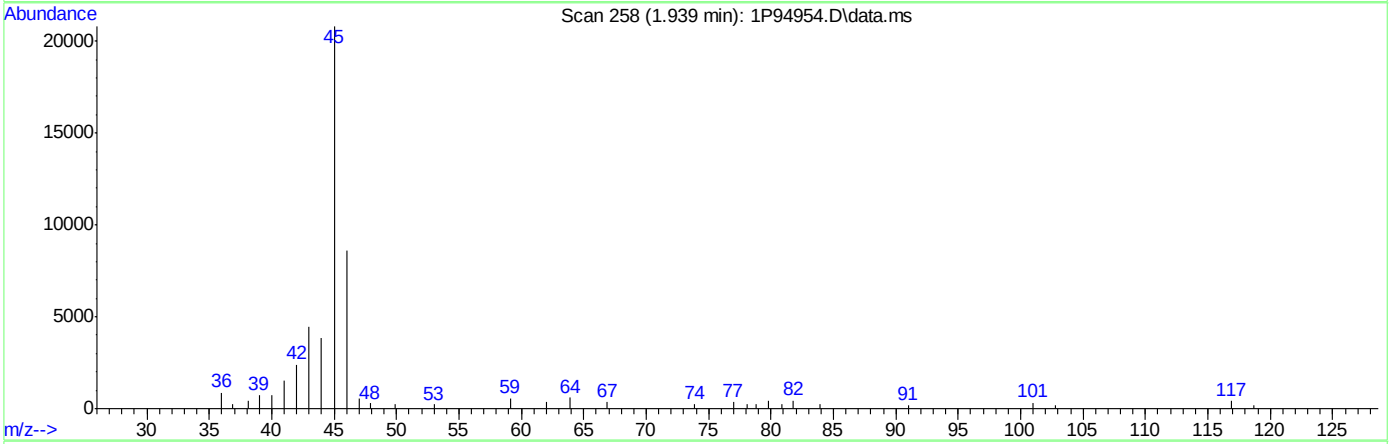
Ion	Exp%	Act%
45.00	100	100
46.00	42.10	43.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94954.D
Acq On : 4 Nov 2022 11:29 am
Operator : courtnef
Sample : IC3621-3
Misc : MS52500,V1P3621,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 11:43:17 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94954.D\data.ms

(10) Ethanol

1.939min (-0.014) 332.45ug/L m

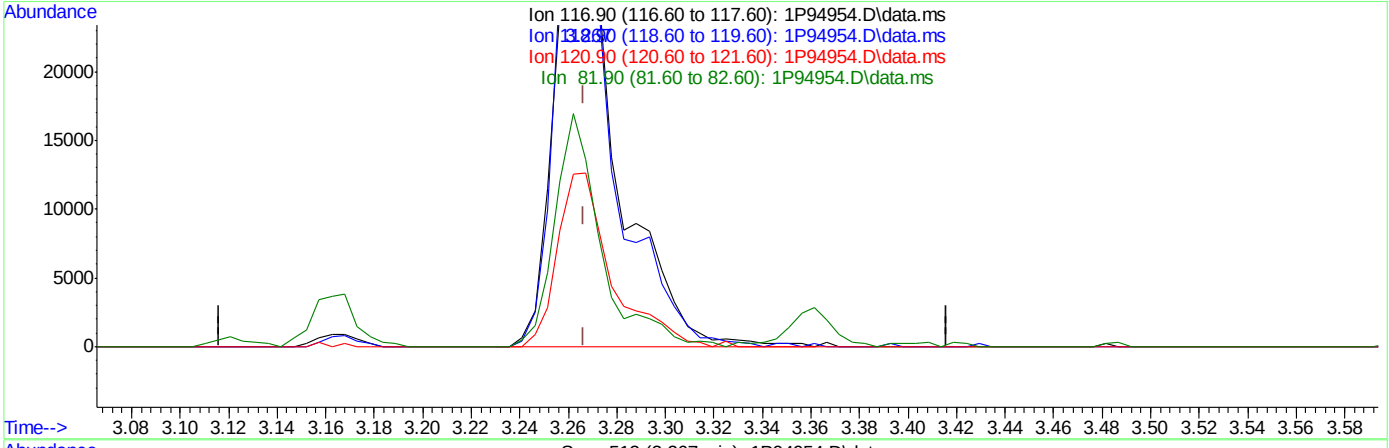
response 43141

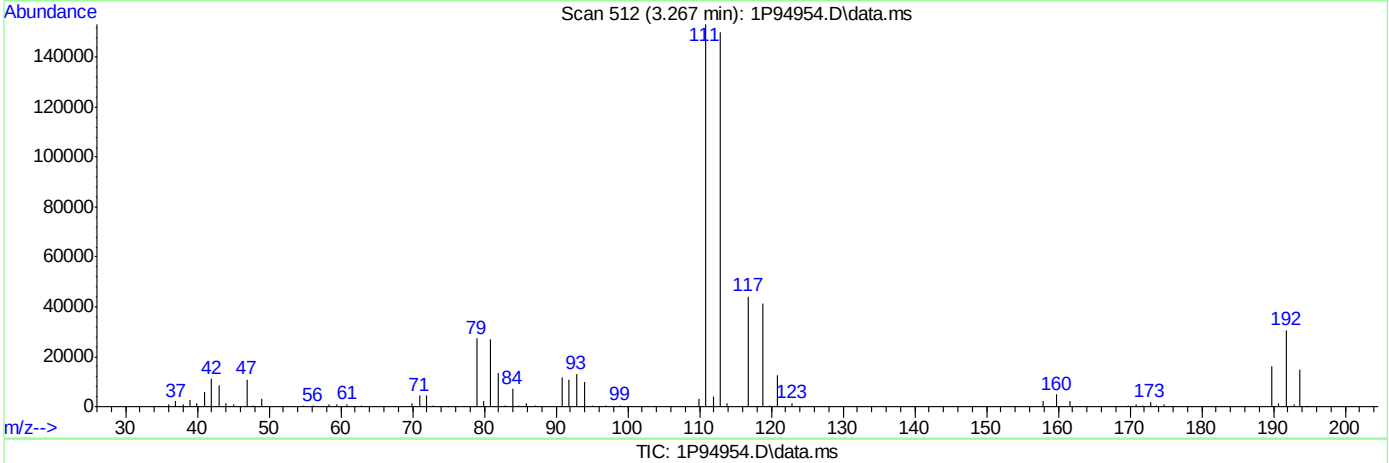
Ion	Exp%	Act%
45.00	100	100
46.00	42.10	41.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94954.D
Acq On : 4 Nov 2022 11:29 am
Operator : courtnef
Sample : IC3621-3
Misc : MS52500,V1P3621,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 11:43:17 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94954.D\data.ms

(40) Carbon Tetrachloride ( )

3.267min (+0.001) 10.73ug/L

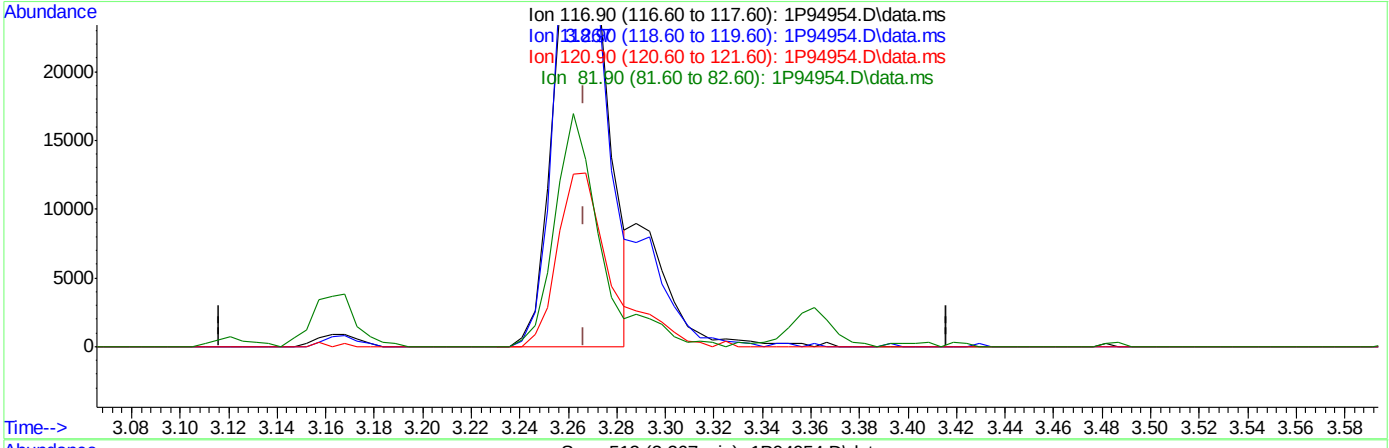
response 64915

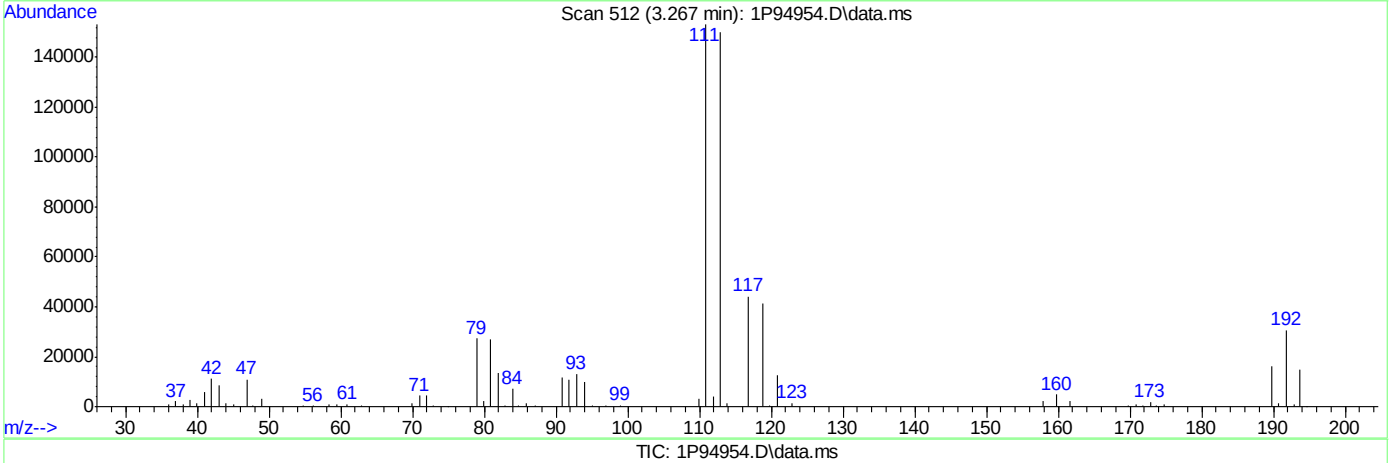
Ion	Exp%	Act%
116.90	100	100
118.90	98.90	93.32
120.90	30.30	28.61
81.90	27.70	30.86

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94954.D
Acq On : 4 Nov 2022 11:29 am
Operator : courtnef
Sample : IC3621-3
Misc : MS52500,V1P3621,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 11:43:17 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94954.D\data.ms

(40) Carbon Tetrachloride ( )

3.267min (+0.001) 9.10ug/L m

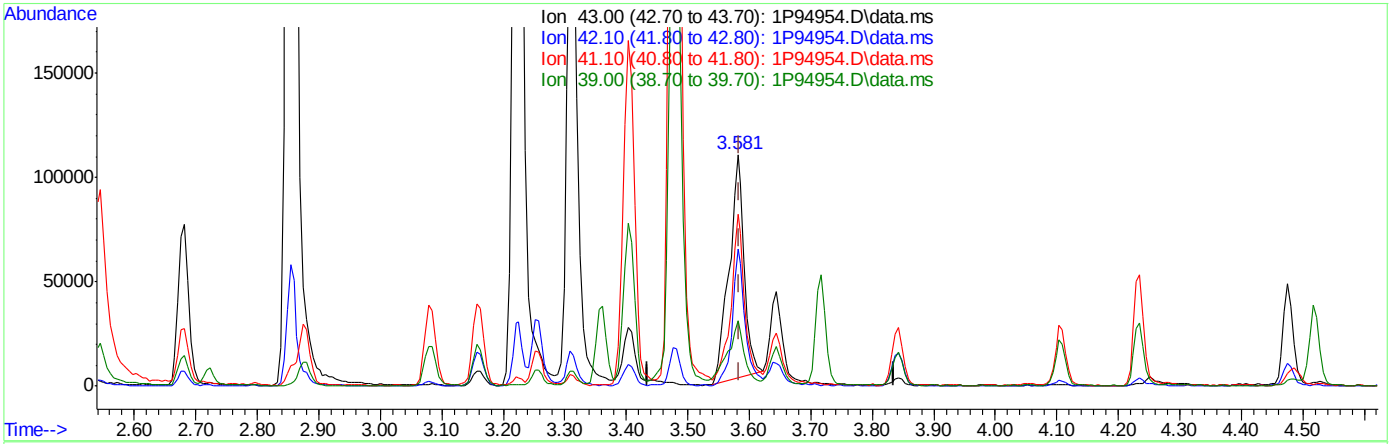
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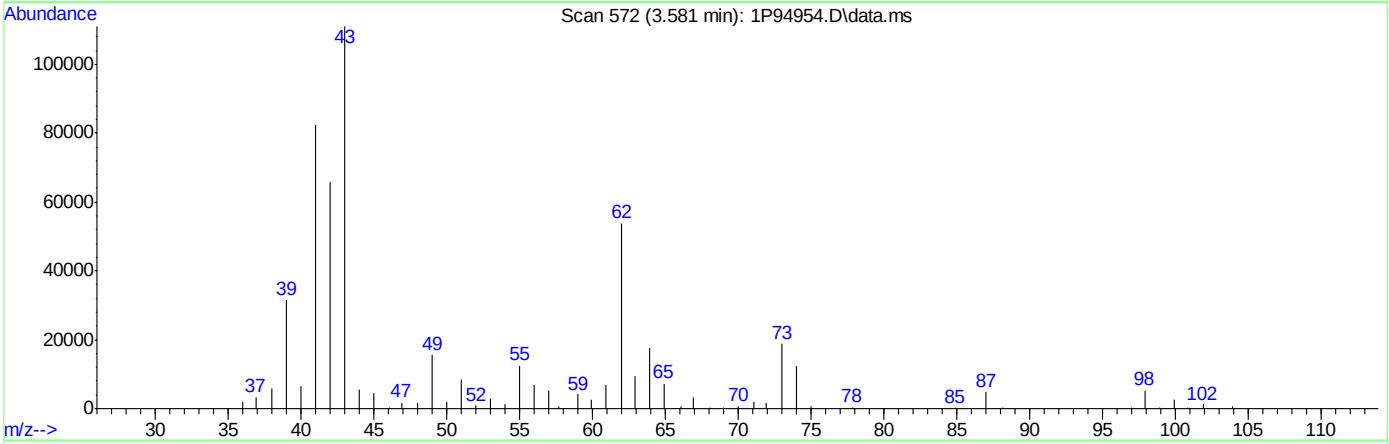
Ion	Exp%	Act%
116.90	100	100
118.90	98.90	93.32
120.90	30.30	28.61
81.90	27.70	30.86

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94954.D
Acq On : 4 Nov 2022 11:29 am
Operator : courtnef
Sample : IC3621-3
Misc : MS52500,V1P3621,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 11:43:17 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94954.D\data.ms

(50) Isobutyl alcohol

3.581min (-0.004) 256.34ug/L

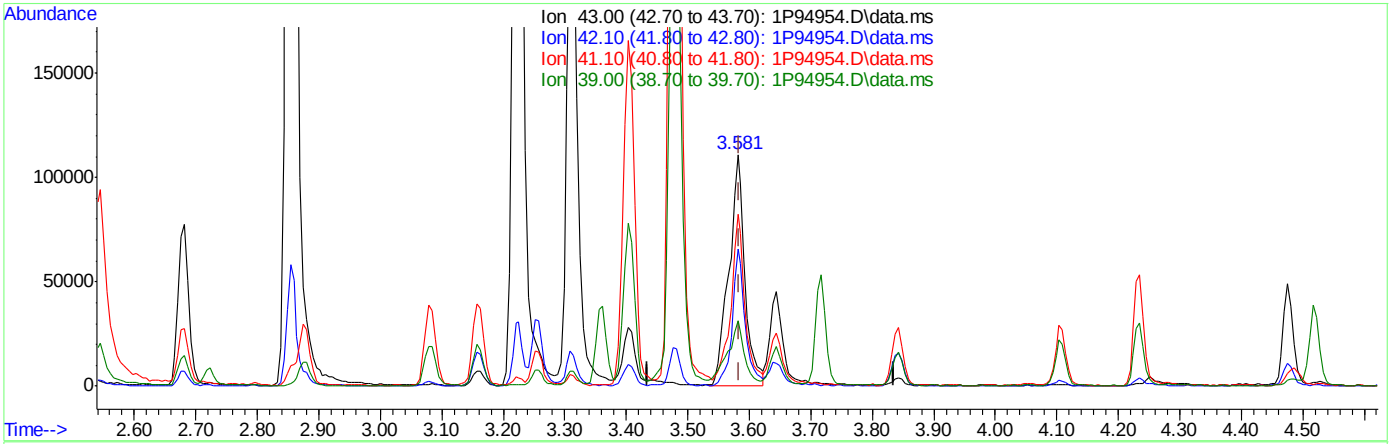
response 184614

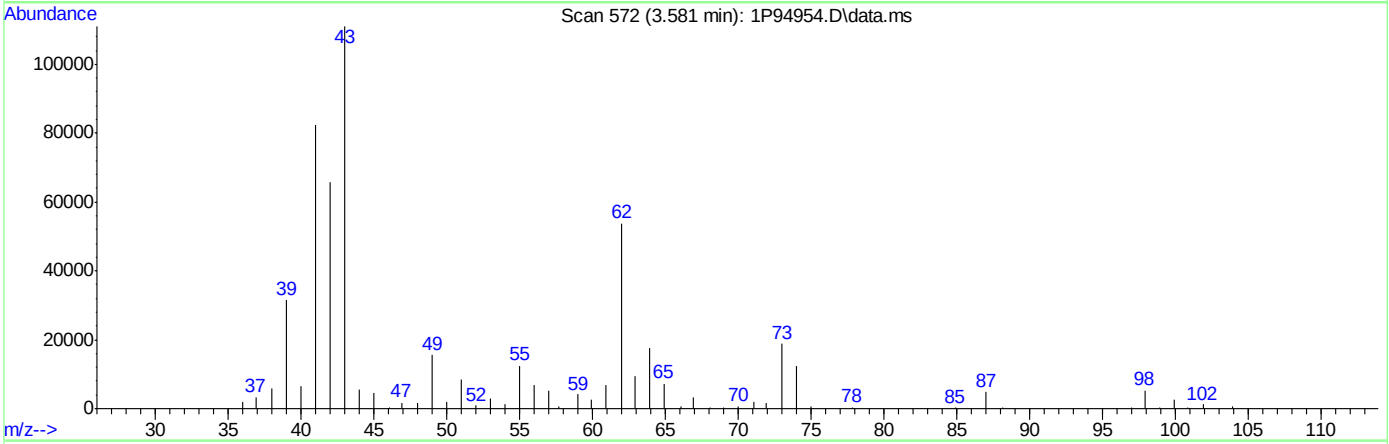
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	59.26
41.10	71.00	71.78
39.00	28.30	25.81

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94954.D
Acq On : 4 Nov 2022 11:29 am
Operator : courtnef
Sample : IC3621-3
Misc : MS52500,V1P3621,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 11:43:17 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94954.D\data.ms

(50) Isobutyl alcohol

3.581min (-0.004) 282.82ug/L m

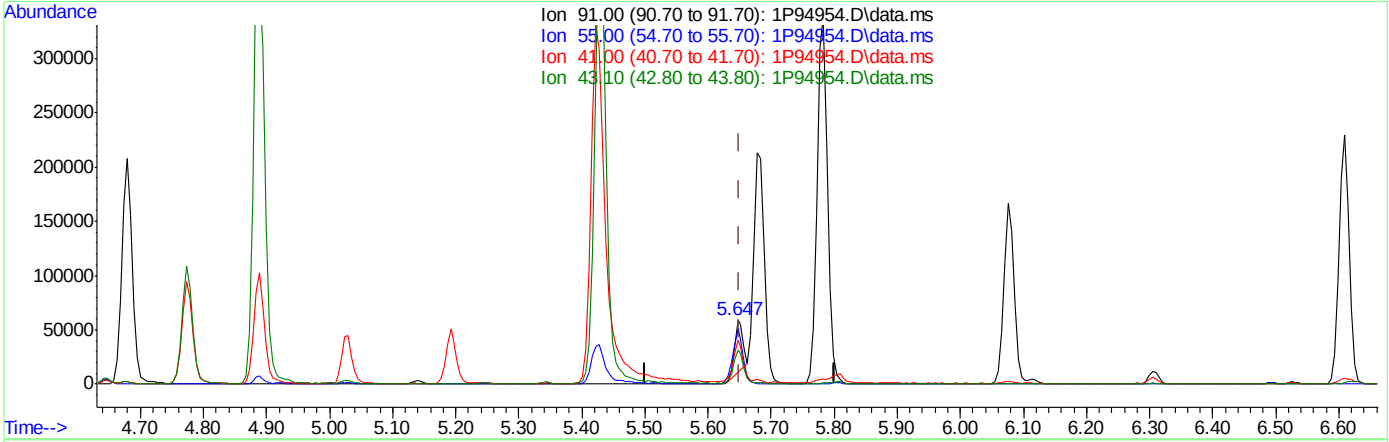
response 203688

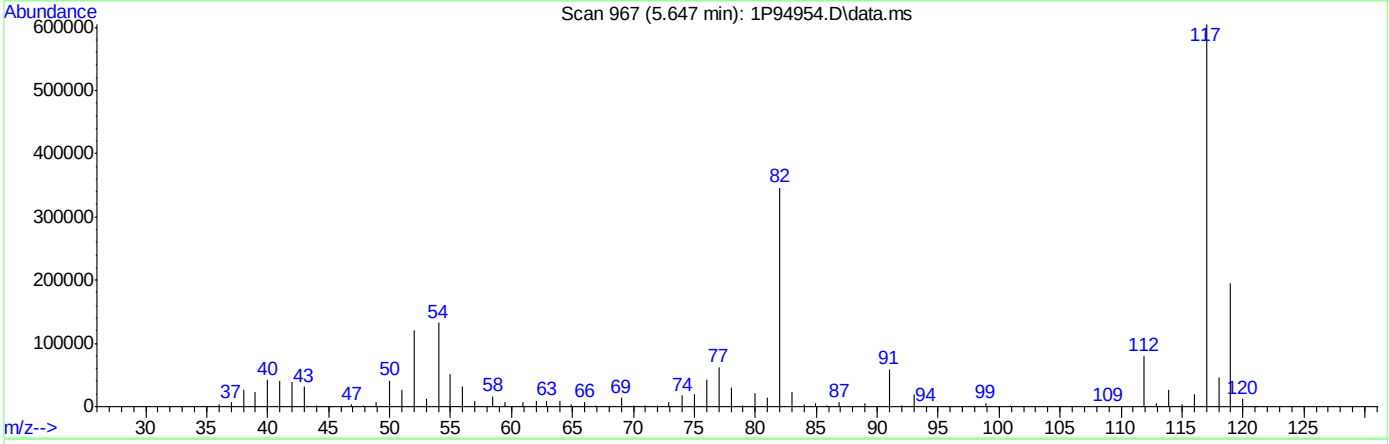
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	59.23
41.10	71.00	74.18
39.00	28.30	28.44

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94954.D
Acq On : 4 Nov 2022 11:29 am
Operator : courtnef
Sample : IC3621-3
Misc : MS52500,V1P3621,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 11:43:17 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94954.D\data.ms

(76) 1-Chlorohexane

5.647min (-0.004) 7.21ug/L

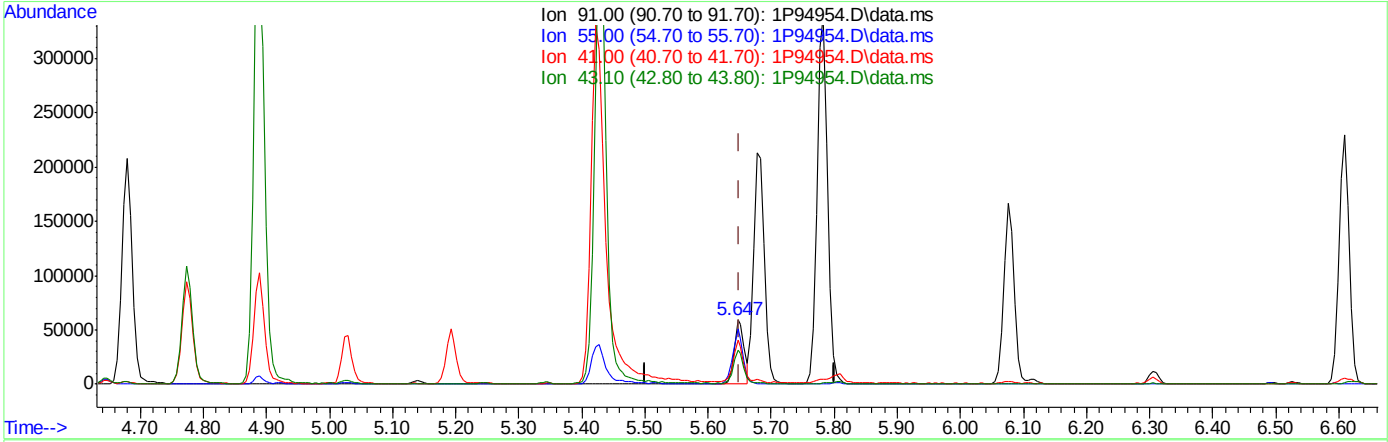
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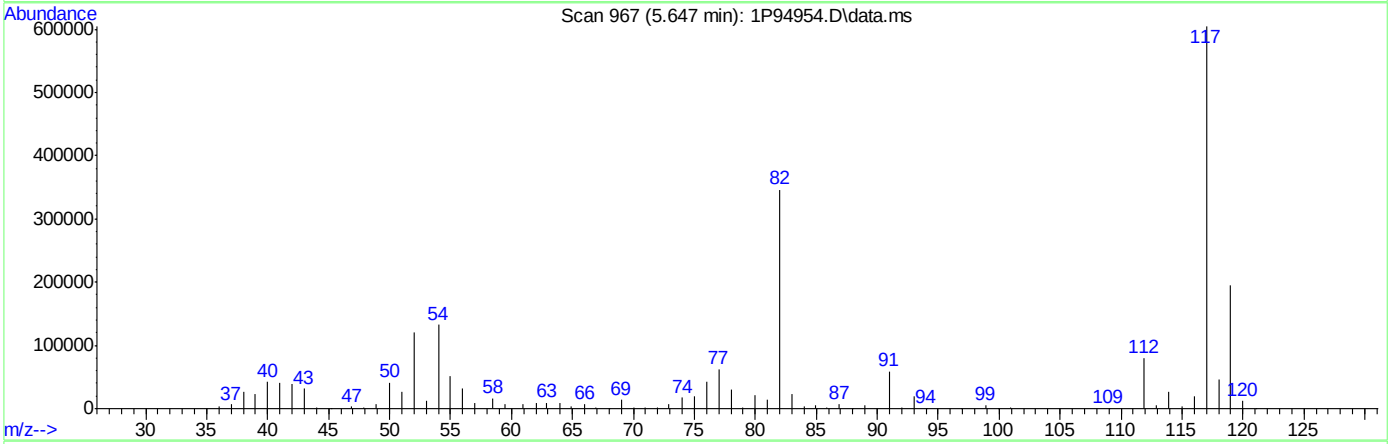
Ion	Exp%	Act%
91.00	100	100
55.00	65.90	77.75
41.00	54.50	62.76
43.10	42.60	49.95

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94954.D
Acq On : 4 Nov 2022 11:29 am
Operator : courtnef
Sample : IC3621-3
Misc : MS52500,V1P3621,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 11:43:17 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94954.D\data.ms

(76) 1-Chlorohexane

5.647min (-0.004) 10.26ug/L m

response 68901

Ion	Exp%	Act%
91.00	100	100
55.00	65.90	86.85#
41.00	54.50	69.37
43.10	42.60	53.59

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 11/07/22 17:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94956.D
Acq On : 4 Nov 2022 12:01 pm
Operator : courtnef
Sample : IC3621-4
Misc : MS52500,V1P3621,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 12:43:34 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.719	96	1417525	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.643	117	924184	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.333	152	395999	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.264	113	294735	47.22	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.44%				
49) 1,2-Dichloroethane-d4	3.551	65	426744	50.87	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.74%				
63) Toluene-d8	4.649	98	1348642	50.84	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.68%				
86) 4-Bromofluorobenzene	6.496	174	297409	43.84	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 87.68%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.114	85	122446	25.79	ug/L		99
3) Chloromethane	1.239	50	178811	37.65	ug/L		99
4) 1,3-butadiene	1.313	39	167406	33.09	ug/L		96
5) Vinyl Chloride	1.297	62	162364	31.34	ug/L		99
6) Bromomethane	1.501	94	19258	9.23	ug/L		99
7) Chloroethane	1.574	64	47732	30.76	ug/L		94
8) Trichlorofluoromethane	1.674	101	174548	29.89	ug/L		99
9) Ethyl Ether	1.872	59	139854	29.99	ug/L		98
10) Ethanol	1.951	45	86661	746.86	ug/L		99
11) 1,2-Dichlorotrifluoroe...	1.972	67	165282	29.37	ug/L		96
12) 1,1-Dichloroethene	1.977	61	199427	27.84	ug/L		98
13) Freon 113	2.008	101	113669	26.10	ug/L		93
14) Carbon Disulfide	1.993	76	381578	29.90	ug/L		96
15) Iodomethane	2.055	142	19772	10.79	ug/L		96
16) Acrolein	2.150	56	217052	134.19	ug/L		99
17) Allyl chloride	2.244	41	168009	29.38	ug/L		95
18) Methylene Chloride	2.296	49	271120	40.17	ug/L		94
19) Acetone	2.312	43	459894	167.61	ug/L		97
20) Methyl acetate	2.390	43	1032749	159.66	ug/L		95
21) trans-1,2-Dichloroethene	2.395	61	197515	27.87	ug/L		94
22) Hexane	2.463	56	105038	28.58	ug/L		94
23) Methyl Tert Butyl Ether	2.469	73	452152	31.27	ug/L		89
24) Tert Butyl Alcohol	2.500	59	471137	398.09	ug/L		88
25) Acetonitrile	2.547	41	313639	344.48	ug/L		98
26) Di-isopropyl ether	2.683	45	473879	30.71	ug/L		96
27) Chloroprene	2.725	53	697429	27.51	ug/L		97
28) 1,1-Dichloroethane	2.725	63	253646	28.51	ug/L		99
29) Acrylonitrile	2.725	52	459732	141.35	ug/L		97
30) ETBE	2.882	59	460081	30.34	ug/L		99
31) Vinyl acetate	2.856	43	1769099	151.20	ug/L		98
32) cis-1,2-Dichloroethene	3.018	96	138489	25.80	ug/L		92
33) 2,2-Dichloropropane	3.080	77	207053	28.45	ug/L		98
34) Bromochloromethane	3.122	128	55423	23.13	ug/L	#	85
35) Cyclohexane	3.159	56	231658	29.60	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94956.D
Acq On : 4 Nov 2022 12:01 pm
Operator : courtnef
Sample : IC3621-4
Misc : MS52500,V1P3621,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 12:43:34 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.164	83	246758	26.74	ug/L		98
37) Ethyl acetate	3.227	43	1270951	147.15	ug/L		98
38) Tetrahydrofuran	3.253	42	100682	30.97	ug/L		97
40) Carbon Tetrachloride	3.264	117	146772m	23.70	ug/L		
41) 1,1,1-Trichloroethane	3.290	97	204974	25.45	ug/L		99
42) 2-Butanone	3.311	43	752165	146.56	ug/L		97
43) 1,1-Dichloropropene	3.363	75	187514	26.25	ug/L		96
44) tert-Butyl formate	3.405	59	524719	244.16	ug/L	#	70
45) Propionitrile	3.457	54	418797	299.47	ug/L		98
46) Methacrylonitrile	3.483	41	1545514	334.50	ug/L		99
47) Benzene	3.494	78	601596	28.05	ug/L		84
48) TAME	3.567	73	425841	30.81	ug/L		92
50) Isobutyl alcohol	3.583	43	515028m	698.71	ug/L		
51) 1,2-Dichloroethane	3.588	62	197297	26.29	ug/L		97
52) Tert Amyl Alcohol	3.645	59	372867	358.55	ug/L		85
53) Trichloroethene	3.823	95	142625	25.56	ug/L		97
54) Methylcyclohexane	3.844	83	208502	27.76	ug/L		98
55) Dibromomethane	4.048	93	78932	25.23	ug/L		92
56) 1,2-Dichloropropane	4.106	63	140018	27.25	ug/L		98
57) Bromodichloromethane	4.142	83	155948	25.17	ug/L		99
58) Methyl methacrylate	4.231	41	166523	28.31	ug/L		93
59) 1,4-Dioxane	4.257	88	64694	585.98	ug/L		91
60) 2-Chloroethyl vinyl ether	4.477	63	214582	48.94	ug/L		92
61) cis-1,3-Dichloropropene	4.519	75	207027	25.68	ug/L		97
64) Toluene	4.681	91	605906	26.90	ug/L		98
65) 2-Nitropropane	4.775	41	313285	148.18	ug/L		95
66) 4-Methyl-2-pentanone	4.890	43	1280079	146.73	ug/L		97
67) trans-1,3-Dichloropropene	4.916	75	180677	26.06	ug/L		91
68) Tetrachloroethene	4.937	166	119375	23.51	ug/L		99
69) Ethyl methacrylate	5.026	69	202775	28.14	ug/L		88
70) 1,1,2-Trichloroethane	5.016	83	102670	26.69	ug/L		95
71) Dibromochloromethane	5.141	129	98584	23.76	ug/L		97
72) 1,3-Dichloropropane	5.193	76	226352	26.73	ug/L		92
73) 1,2-Dibromoethane	5.293	107	120708	25.80	ug/L		93
74) 3,3-dimethyl-1-butanol	5.424	57	1999024	1493.11	ug/L		98
75) 2-hexanone	5.429	43	1427794	160.35	ug/L	#	62
76) 1-Chlorohexane	5.648	91	185608m	26.97	ug/L		
77) Ethylbenzene	5.680	91	639347	26.73	ug/L		98
78) Chlorobenzene	5.654	112	340153	26.70	ug/L		93
79) 1,1,1,2-Tetrachloroethane	5.696	131	105398	25.79	ug/L		96
80) m,p-Xylene	5.784	91	1004558	53.66	ug/L		98
81) o-Xylene	6.077	91	498435	26.86	ug/L		99
82) Styrene	6.109	104	363096	25.65	ug/L		97
83) Bromoform	6.119	173	49055	21.81	ug/L		95
84) Isopropylbenzene	6.307	105	562768	26.62	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.527	53	55214	24.29	ug/L		95
88) n-Propylbenzene	6.611	91	683308	27.04	ug/L		98
89) Bromobenzene	6.569	156	118116	23.24	ug/L		85
90) 1,1,2,2-Tetrachloroethane	6.626	83	188035	28.00	ug/L		99
91) 1,3,5-Trimethylbenzene	6.757	105	461751	26.61	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94956.D
Acq On : 4 Nov 2022 12:01 pm
Operator : courtnef
Sample : IC3621-4
Misc : MS52500,V1P3621,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 12:43:34 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

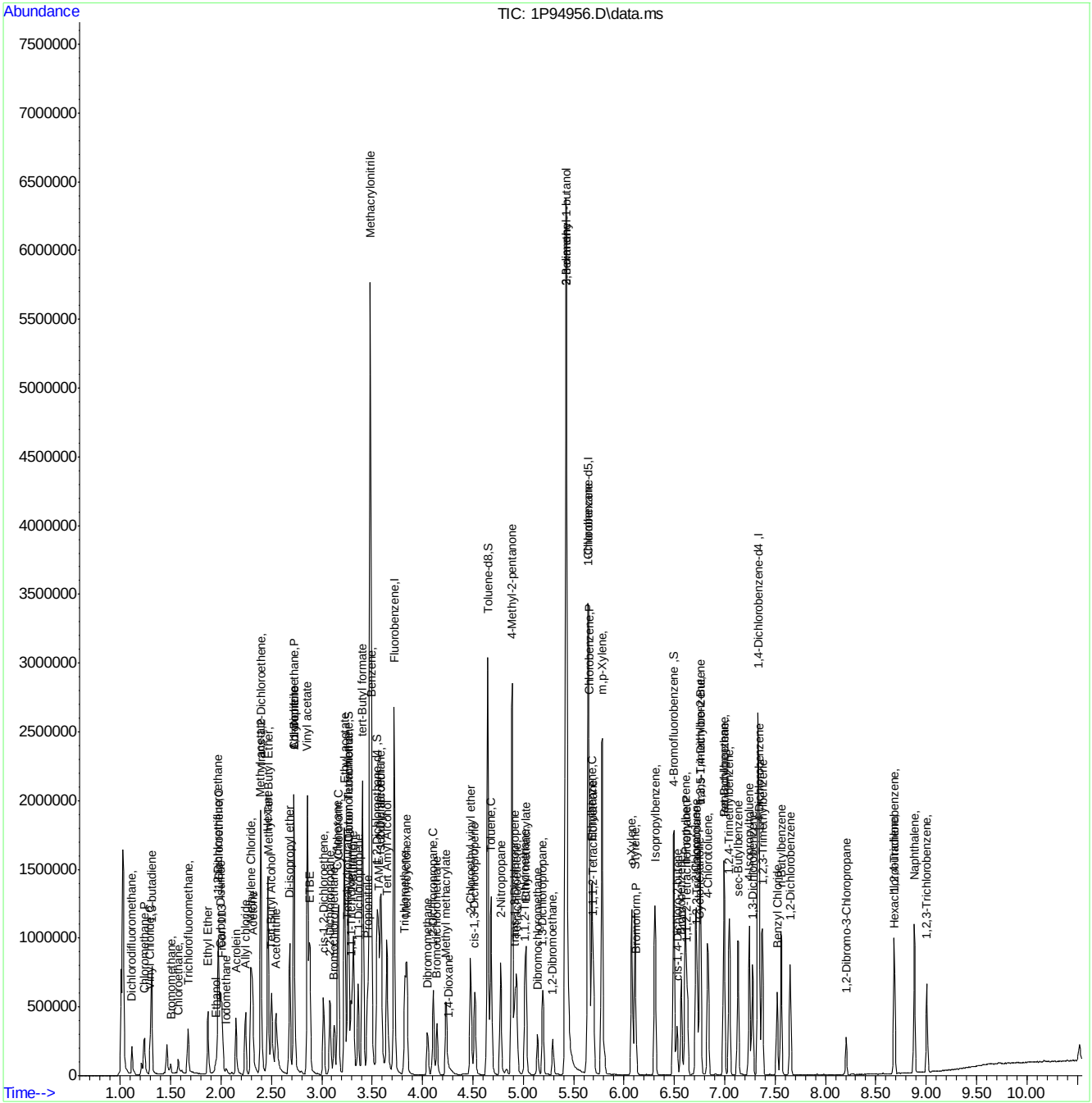
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.710	91	399434	26.31	ug/L		96
93)	trans-1,4-Dichloro-2-B...	6.757	53	66578	26.11	ug/L		87
94)	1,2,3-Trichloropropane	6.726	110	64343	26.27	ug/L		97
95)	Cyclohexanone	6.747	55	66154	152.70	ug/L		96
96)	4-Chlorotoluene	6.830	91	415280	26.34	ug/L		98
97)	tert-Butylbenzene	6.993	91	254054	25.67	ug/L		97
99)	1,2,4-Trimethylbenzene	7.045	105	440653	26.39	ug/L		99
100)	Pentachloroethane	6.993	167	53964	25.31	ug/L	#	90
101)	sec-Butylbenzene	7.134	105	498385	26.63	ug/L		99
102)	4-Isopropyltoluene	7.244	119	428830	26.51	ug/L		99
103)	1,3-Dichlorobenzene	7.275	146	219826	25.09	ug/L		98
104)	1,2,3-Trimethylbenzene	7.374	105	426692	25.99	ug/L		99
105)	1,4-Dichlorobenzene	7.343	146	227463	25.17	ug/L		97
106)	n-Butylbenzene	7.557	92	220625	28.37	ug/L		95
107)	Benzyl Chloride	7.521	126	53782	25.35	ug/L	#	91
108)	1,2-Dichlorobenzene	7.652	146	203684	24.69	ug/L		98
109)	1,2-Dibromo-3-Chloropr...	8.206	75	42235	26.40	ug/L		93
110)	Hexachlorobutadiene	8.687	225	37634	21.20	ug/L		97
111)	1,2,4-Trichlorobenzene	8.682	180	111998	23.42	ug/L		100
112)	Naphthalene	8.881	128	497745	25.97	ug/L		100
113)	1,2,3-Trichlorobenzene	9.006	180	105274	22.93	ug/L		95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94956.D
Acq On : 4 Nov 2022 12:01 pm
Operator : courtnef
Sample : IC3621-4
Misc : MS52500,V1P3621,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 12:43:34 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V1P3621-IC3621
Lab FileID: 1P94956.D
Injection Time: 11/04/22 12:01

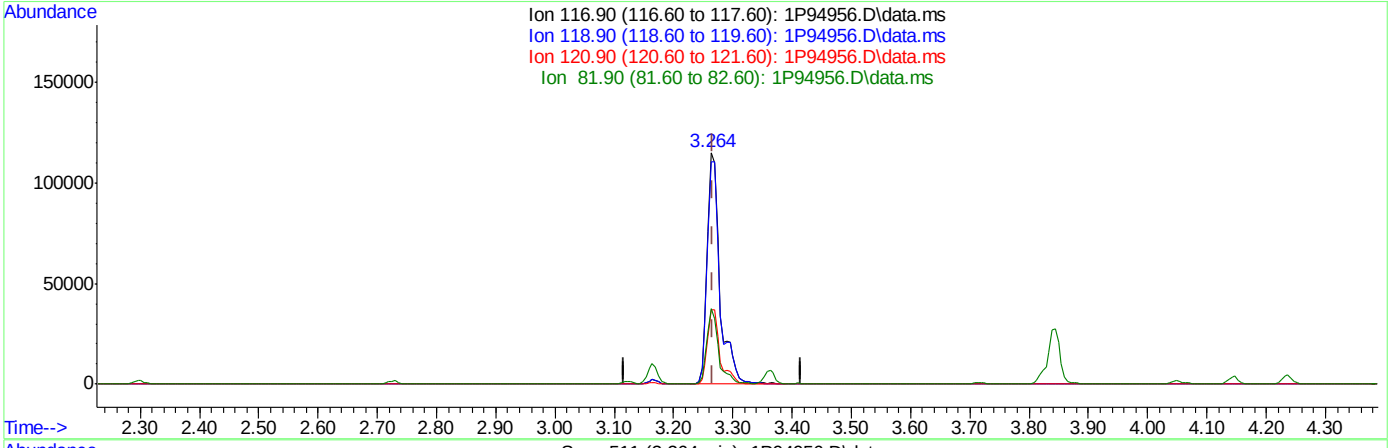
Method: SW846 8260D
Analyst approved: 11/04/22 12:44 Courtney Failla
Supervisor approved: 11/07/22 17:40 Shanica O'Connor

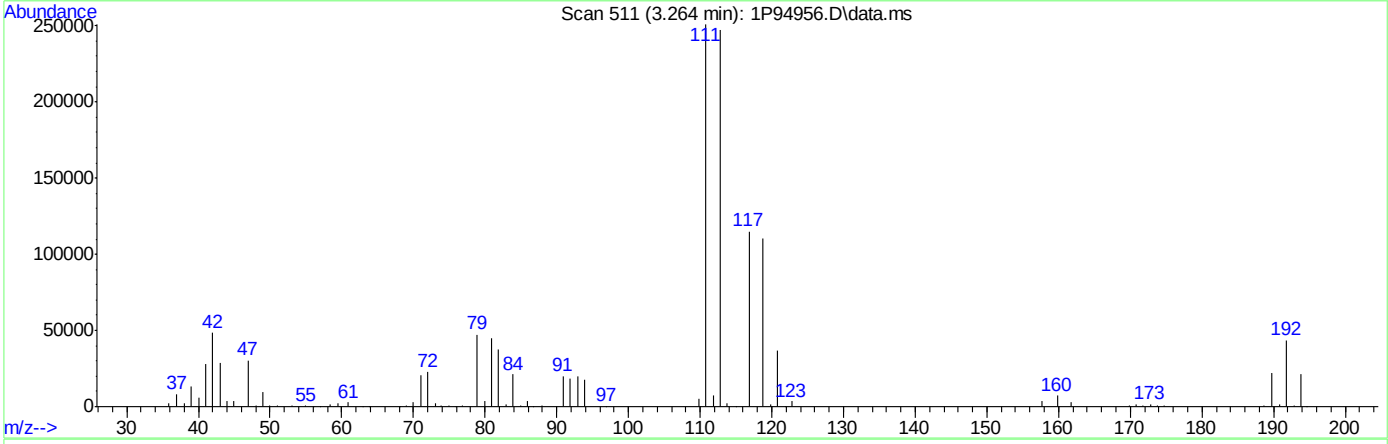
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.58	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94956.D
Acq On : 4 Nov 2022 12:01 pm
Operator : courtnef
Sample : IC3621-4
Misc : MS52500,V1P3621,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 12:42:26 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94956.D\data.ms

(40) Carbon Tetrachloride ( )

3.264min (-0.003) 27.61ug/L

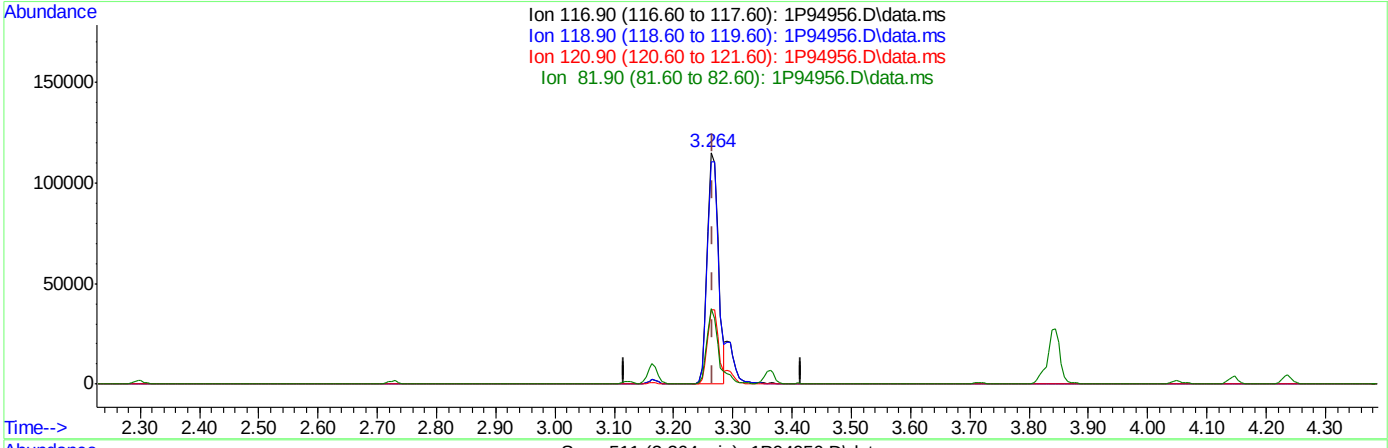
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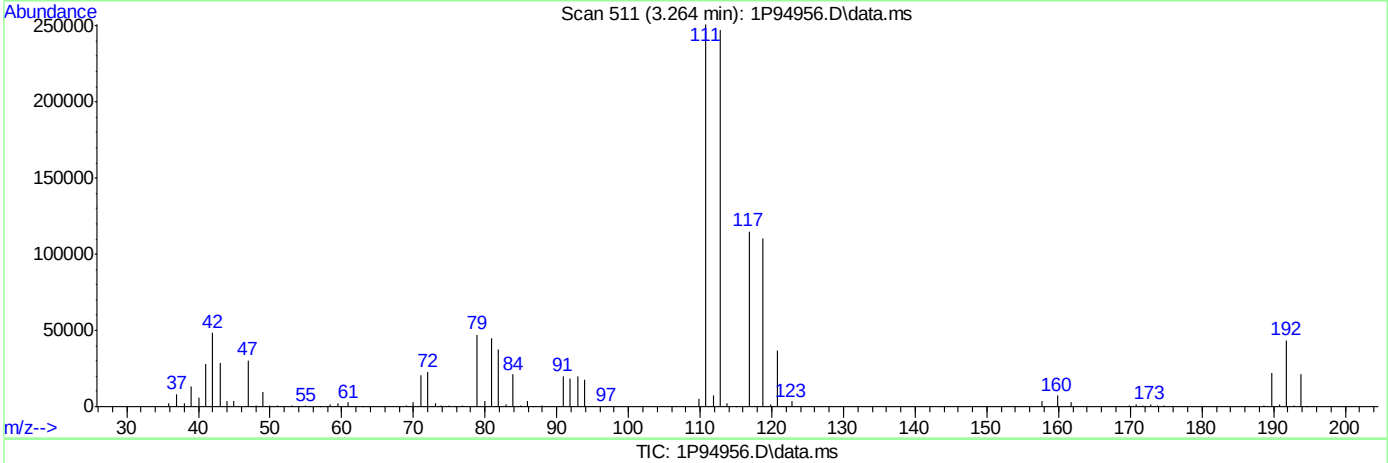
Ion	Exp%	Act%
116.90	100	100
118.90	98.90	96.01
120.90	30.30	31.93
81.90	27.70	32.37

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94956.D
Acq On : 4 Nov 2022 12:01 pm
Operator : courtnef
Sample : IC3621-4
Misc : MS52500,V1P3621,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 12:42:26 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94956.D\data.ms

(40) Carbon Tetrachloride ( )

3.264min (-0.003) 23.70ug/L m

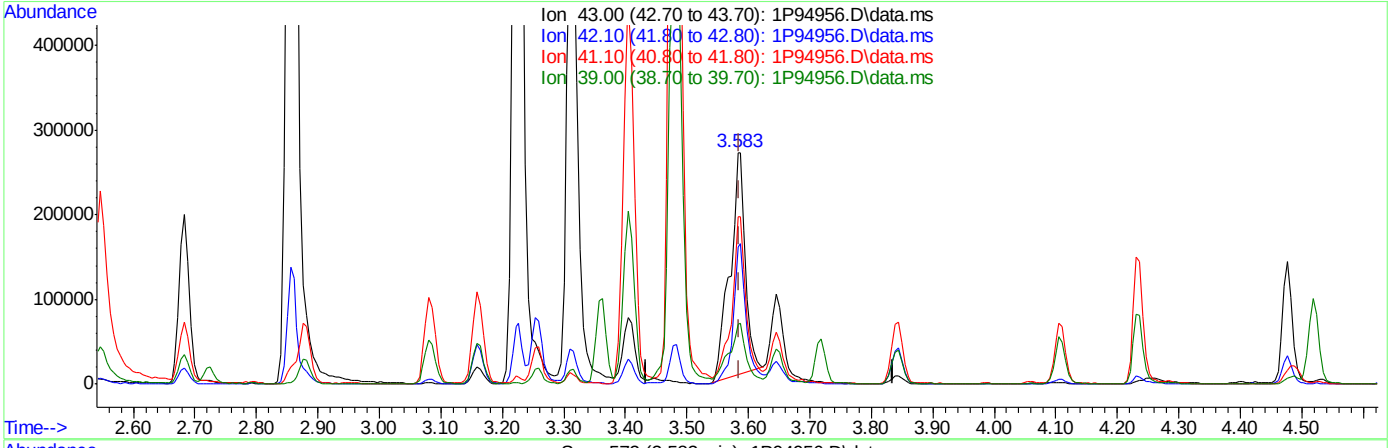
response 146772

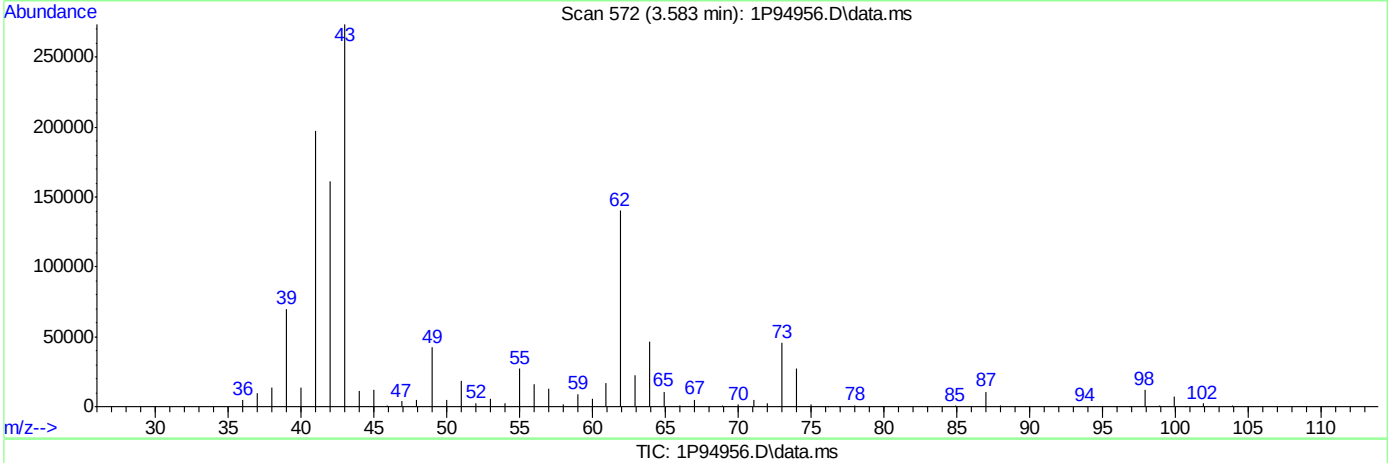
Ion	Exp%	Act%
116.90	100	100
118.90	98.90	96.01
120.90	30.30	31.93
81.90	27.70	32.37

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94956.D
Acq On : 4 Nov 2022 12:01 pm
Operator : courtnef
Sample : IC3621-4
Misc : MS52500,V1P3621,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 12:42:26 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94956.D\data.ms

(50) Isobutyl alcohol

3.583min (-0.003) 627.74ug/L

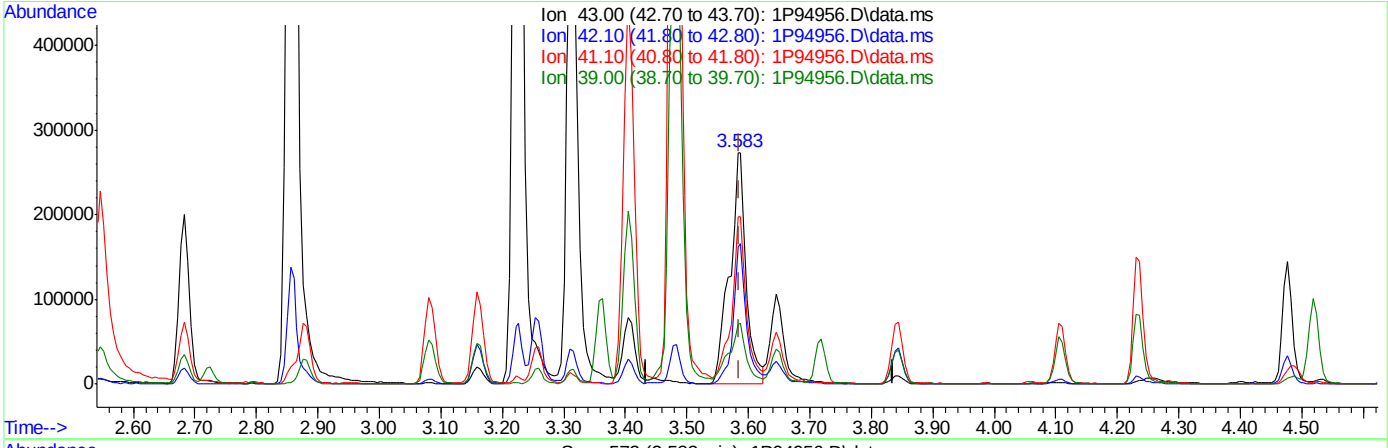
response 462715

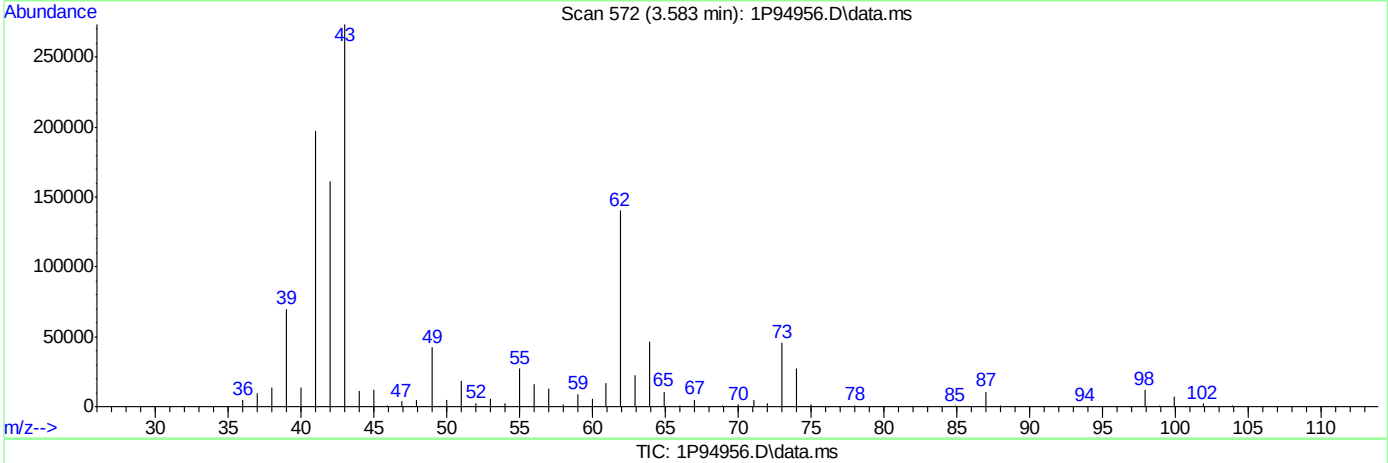
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	59.06
41.10	71.00	69.88
39.00	28.30	23.51

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94956.D
Acq On : 4 Nov 2022 12:01 pm
Operator : courtnef
Sample : IC3621-4
Misc : MS52500,V1P3621,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 12:42:26 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94956.D\data.ms

(50) Isobutyl alcohol

3.583min (-0.003) 698.71ug/L m

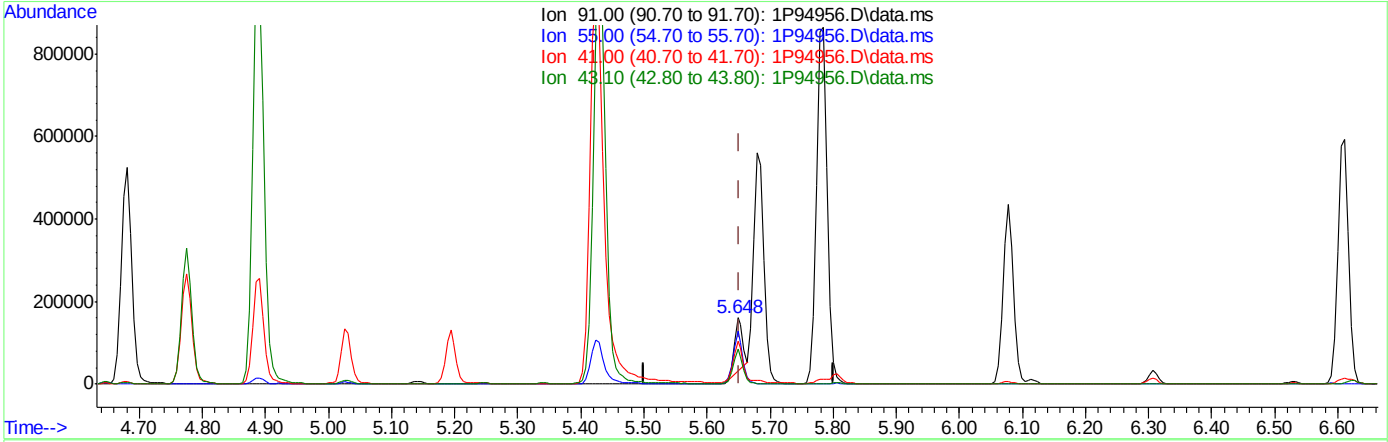
response 515028

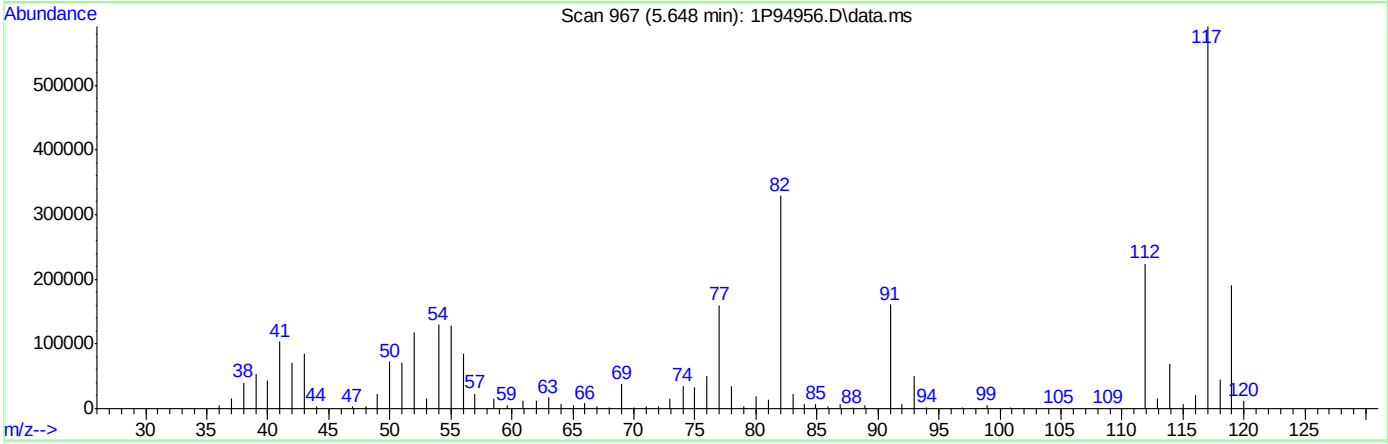
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	58.98
41.10	71.00	72.23
39.00	28.30	25.59

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94956.D
Acq On : 4 Nov 2022 12:01 pm
Operator : courtnef
Sample : IC3621-4
Misc : MS52500,V1P3621,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 12:42:26 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94956.D\data.ms

(76) 1-Chlorohexane

5.648min (-0.003) 18.47ug/L

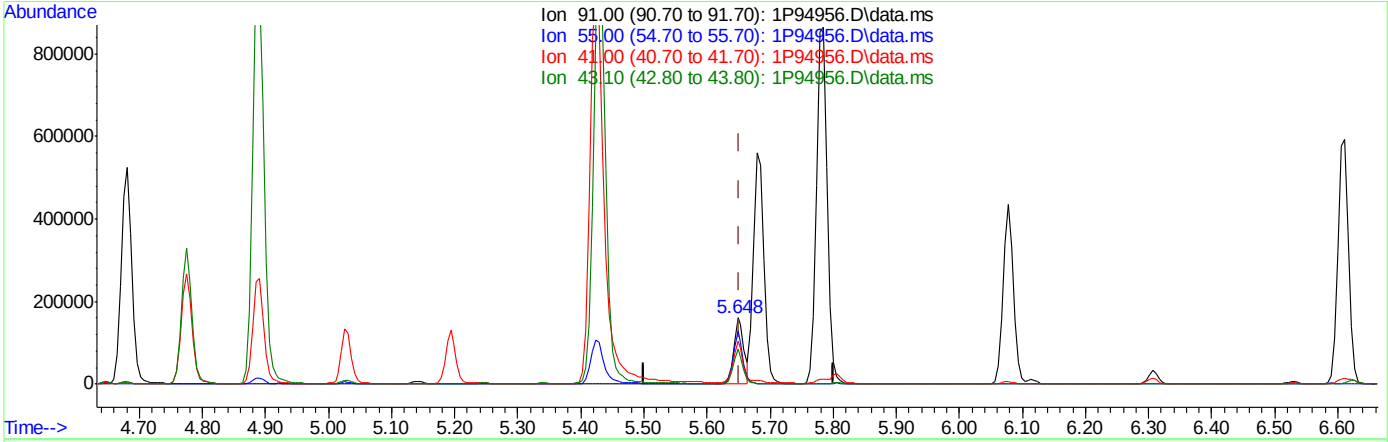
response 127083

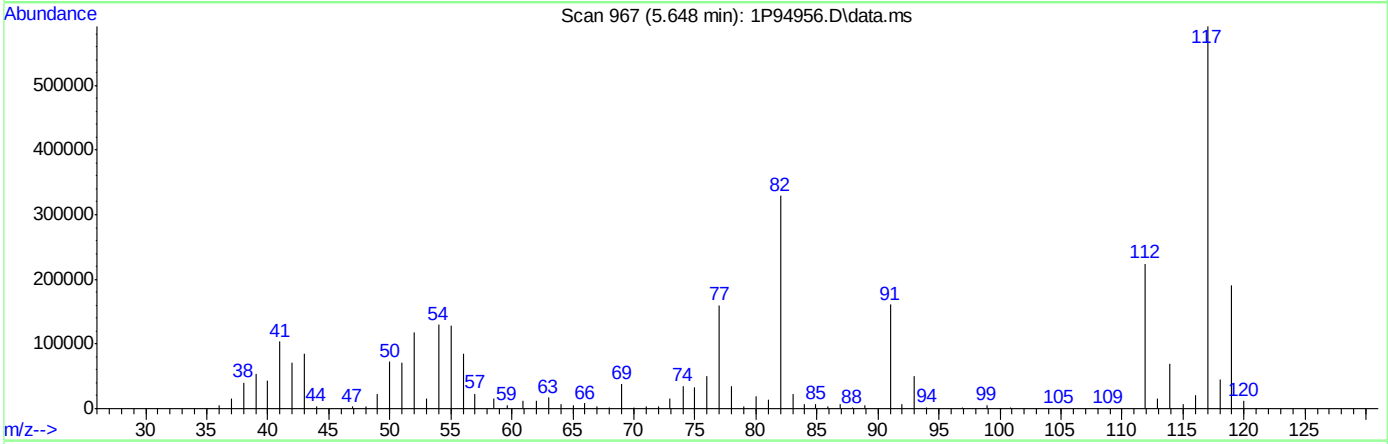
Ion	Exp%	Act%
91.00	100	100
55.00	65.90	75.56
41.00	54.50	59.84
43.10	42.60	51.65

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94956.D
Acq On : 4 Nov 2022 12:01 pm
Operator : courtnef
Sample : IC3621-4
Misc : MS52500,V1P3621,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 12:42:26 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94956.D\data.ms

(76) 1-Chlorohexane

5.648min (-0.003) 26.97ug/L m

response 185608

Ion	Exp%	Act%
91.00	100	100
55.00	65.90	79.73
41.00	54.50	64.26
43.10	42.60	53.12

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 11/07/22 17:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94958.D
Acq On : 4 Nov 2022 12:33 pm
Operator : courtnef
Sample : ICC3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 04 12:45:57 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.719	96	1492751	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.644	117	973140	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.333	152	417254	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.264	113	314948	47.91	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.82%			
49) 1,2-Dichloroethane-d4	3.552	65	461341	52.22	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 104.44%			
63) Toluene-d8	4.650	98	1415791	50.69	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.38%			
86) 4-Bromofluorobenzene	6.497	174	317672	44.44	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 88.88%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.120	85	202477	40.49	ug/L	99
3) Chloromethane	1.240	50	289136	57.81	ug/L	96
4) 1,3-butadiene	1.314	39	270422	52.55	ug/L	100
5) Vinyl Chloride	1.298	62	248214	45.49	ug/L	99
6) Bromomethane	1.502	94	27870	12.68	ug/L	96
7) Chloroethane	1.575	64	72492	44.80	ug/L	99
8) Trichlorofluoromethane	1.669	101	272946	44.39	ug/L	99
9) Ethyl Ether	1.873	59	220809	44.97	ug/L	100
10) Ethanol	1.957	45	147467m	Below Cal		
11) 1,2-Dichlorotrifluoroe...	1.973	67	293201	49.47	ug/L	99
12) 1,1-Dichloroethene	1.973	61	360072	47.74	ug/L	94
13) Freon 113	2.009	101	202881	44.24	ug/L	94
14) Carbon Disulfide	1.993	76	639293	47.56	ug/L	97
15) Iodomethane	2.051	142	29652	14.93	ug/L	97
16) Acrolein	2.150	56	365798	214.76	ug/L	99
17) Allyl chloride	2.244	41	272426	45.24	ug/L	97
18) Methylene Chloride	2.297	49	389168	57.27	ug/L	95
19) Acetone	2.312	43	727813	251.88	ug/L	97
20) Methyl acetate	2.391	43	1712832	251.46	ug/L	95
21) trans-1,2-Dichloroethene	2.396	61	323174	43.30	ug/L	97
22) Hexane	2.464	56	181801	46.98	ug/L	92
23) Methyl Tert Butyl Ether	2.469	73	777428	51.06	ug/L	84
24) Tert Butyl Alcohol	2.506	59	767190	615.57	ug/L	86
25) Acetonitrile	2.548	41	478475	534.02	ug/L	99
26) Di-isopropyl ether	2.684	45	788829	48.54	ug/L	97
27) Chloroprene	2.726	53	1161050	43.49	ug/L	97
28) 1,1-Dichloroethane	2.726	63	420996	44.93	ug/L	99
29) Acrylonitrile	2.726	52	752110	219.59	ug/L	98
30) ETBE	2.883	59	775735	47.98	ug/L	99
31) Vinyl acetate	2.856	43	2955408	239.86	ug/L	98
32) cis-1,2-Dichloroethene	3.019	96	229175	40.55	ug/L	96
33) 2,2-Dichloropropane	3.081	77	346966	45.27	ug/L	98
34) Bromochloromethane	3.123	128	91973	36.45	ug/L	89
35) Cyclohexane	3.160	56	395373	47.97	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94958.D
Acq On : 4 Nov 2022 12:33 pm
Operator : courtnef
Sample : ICC3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 04 12:45:57 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.165	83	410068	42.20	ug/L		100
37) Ethyl acetate	3.228	43	2101622	231.06	ug/L		99
38) Tetrahydrofuran	3.254	42	165087	48.22	ug/L		97
40) Carbon Tetrachloride	3.264	117	257792m	39.52	ug/L		
41) 1,1,1-Trichloroethane	3.291	97	346759	40.89	ug/L		98
42) 2-Butanone	3.317	43	1245388	230.44	ug/L		99
43) 1,1-Dichloropropene	3.364	75	315959	42.00	ug/L		98
44) tert-Butyl formate	3.406	59	951794	380.20	ug/L	#	66
45) Propionitrile	3.458	54	680053	461.78	ug/L		98
46) Methacrylonitrile	3.484	41	2597089	533.77	ug/L		99
47) Benzene	3.494	78	1004578	44.49	ug/L		86
48) TAME	3.568	73	733545	49.35	ug/L		93
50) Isobutyl alcohol	3.589	43	848447m	1093.04	ug/L		
51) 1,2-Dichloroethane	3.589	62	333141	42.15	ug/L		97
52) Tert Amyl Alcohol	3.646	59	618341	578.73	ug/L		82
53) Trichloroethene	3.824	95	237232	40.37	ug/L		93
54) Methylcyclohexane	3.845	83	352453	44.57	ug/L		99
55) Dibromomethane	4.049	93	133571	40.54	ug/L		89
56) 1,2-Dichloropropane	4.106	63	233796	43.20	ug/L		99
57) Bromodichloromethane	4.143	83	266061	39.94	ug/L		99
58) Methyl methacrylate	4.232	41	292572	47.24	ug/L		95
59) 1,4-Dioxane	4.258	88	99942	859.98	ug/L		91
60) 2-Chloroethyl vinyl ether	4.478	63	352980	76.44	ug/L		92
61) cis-1,3-Dichloropropene	4.520	75	349843	40.70	ug/L		96
64) Toluene	4.682	91	998799	42.10	ug/L		98
65) 2-Nitropropane	4.776	41	554444	239.04	ug/L		99
66) 4-Methyl-2-pentanone	4.891	43	2166332	235.82	ug/L		97
67) trans-1,3-Dichloropropene	4.917	75	312155	41.98	ug/L		93
68) Tetrachloroethene	4.938	166	202165	37.80	ug/L		99
69) Ethyl methacrylate	5.027	69	346420	45.65	ug/L		91
70) 1,1,2-Trichloroethane	5.016	83	171233	42.27	ug/L		98
71) Dibromochloromethane	5.142	129	173639	38.65	ug/L		97
72) 1,3-Dichloropropane	5.194	76	380677	42.69	ug/L		94
73) 1,2-Dibromoethane	5.294	107	201903	40.98	ug/L		97
74) 3,3-dimethyl-1-butanol	5.424	57	3467454	2459.62	ug/L		99
75) 2-hexanone	5.430	43	2392535	255.18	ug/L	#	61
76) 1-Chlorohexane	5.649	91	316338m	43.66	ug/L		
77) Ethylbenzene	5.681	91	1045233	41.49	ug/L		99
78) Chlorobenzene	5.655	112	560033	41.75	ug/L		95
79) 1,1,1,2-Tetrachloroethane	5.696	131	180149	41.86	ug/L		97
80) m,p-Xylene	5.780	91	1682959	85.38	ug/L		99
81) o-Xylene	6.078	91	805278	41.21	ug/L		100
82) Styrene	6.110	104	613007	41.12	ug/L		97
83) Bromoform	6.115	173	90834	36.64	ug/L		94
84) Isopropylbenzene	6.308	105	931379	41.84	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.528	53	98310	41.04	ug/L		99
88) n-Propylbenzene	6.606	91	1118029	41.98	ug/L		100
89) Bromobenzene	6.570	156	197155	36.81	ug/L		86
90) 1,1,2,2-Tetrachloroethane	6.627	83	305842	43.23	ug/L		99
91) 1,3,5-Trimethylbenzene	6.758	105	762949	41.72	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94958.D
Acq On : 4 Nov 2022 12:33 pm
Operator : courtnef
Sample : ICC3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 04 12:45:57 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

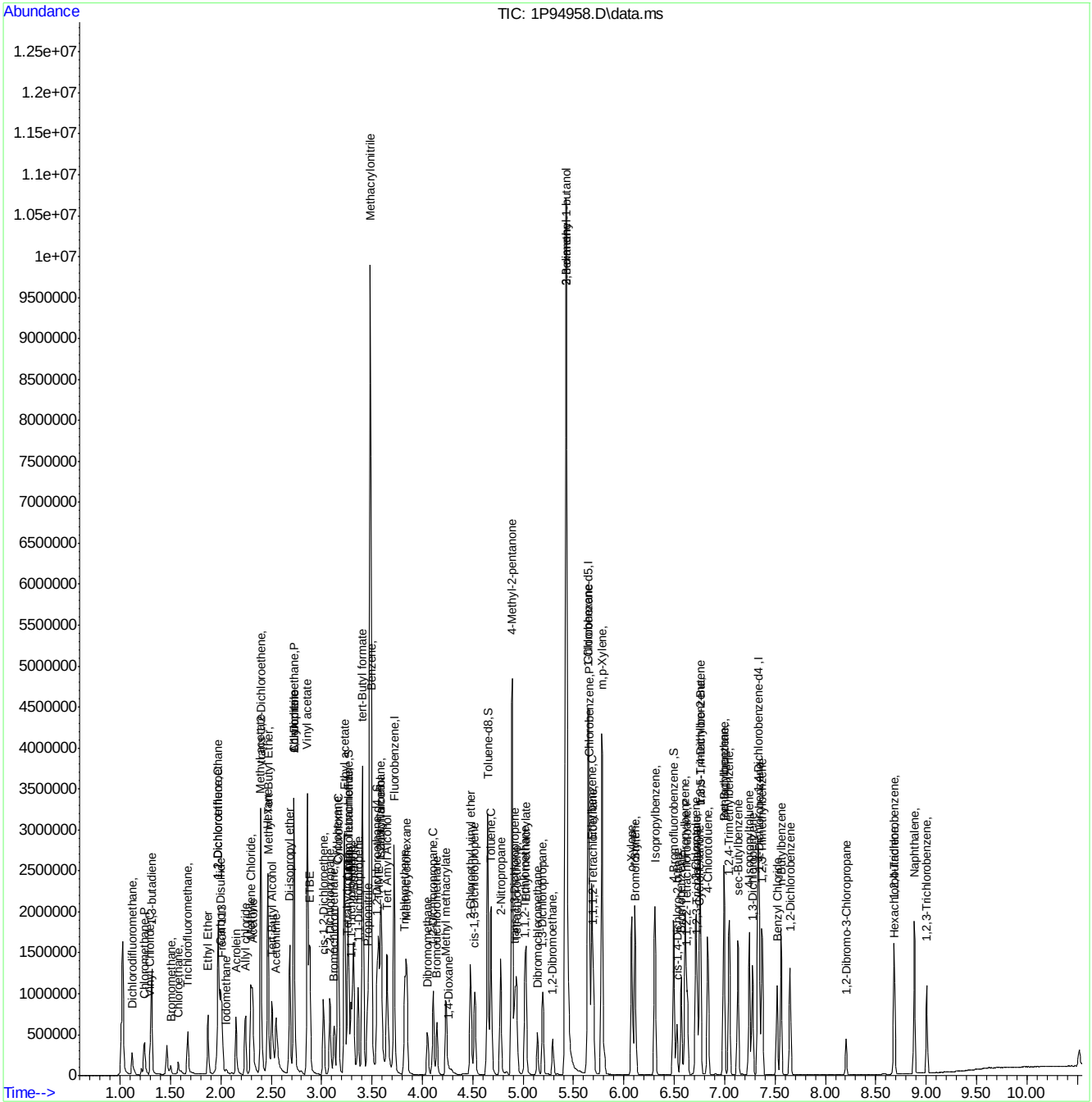
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 2-Chlorotoluene	6.711	91	654365	40.91	ug/L	97
93) trans-1,4-Dichloro-2-B...	6.758	53	113426	42.21	ug/L	92
94) 1,2,3-Trichloropropane	6.727	110	105230	40.78	ug/L	98
95) Cyclohexanone	6.748	55	104783	229.54	ug/L	94
96) 4-Chlorotoluene	6.831	91	684616	41.21	ug/L	99
97) tert-Butylbenzene	6.993	91	425333	40.79	ug/L	95
99) 1,2,4-Trimethylbenzene	7.046	105	734046	41.73	ug/L	98
100) Pentachloroethane	6.993	167	93093	40.36	ug/L	93
101) sec-Butylbenzene	7.129	105	825215	41.84	ug/L	99
102) 4-Isopropyltoluene	7.244	119	706218	41.43	ug/L	99
103) 1,3-Dichlorobenzene	7.276	146	369673	40.04	ug/L	97
104) 1,2,3-Trimethylbenzene	7.370	105	714134	41.28	ug/L	99
105) 1,4-Dichlorobenzene	7.344	146	376605	39.55	ug/L	97
106) n-Butylbenzene	7.558	92	359970	43.92	ug/L	99
107) Benzyl Chloride	7.522	126	99998	41.50	ug/L	99
108) 1,2-Dichlorobenzene	7.652	146	344264	39.61	ug/L	98
109) 1,2-Dibromo-3-Chloropr...	8.207	75	72915	41.33	ug/L	97
110) Hexachlorobutadiene	8.688	225	60994	32.60	ug/L	94
111) 1,2,4-Trichlorobenzene	8.683	180	186463	37.01	ug/L	98
112) Naphthalene	8.882	128	855181	42.34	ug/L	100
113) 1,2,3-Trichlorobenzene	9.007	180	173468	35.85	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94958.D
Acq On : 4 Nov 2022 12:33 pm
Operator : courtnef
Sample : ICC3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 04 12:45:57 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration



Manual Integration Approval Summary

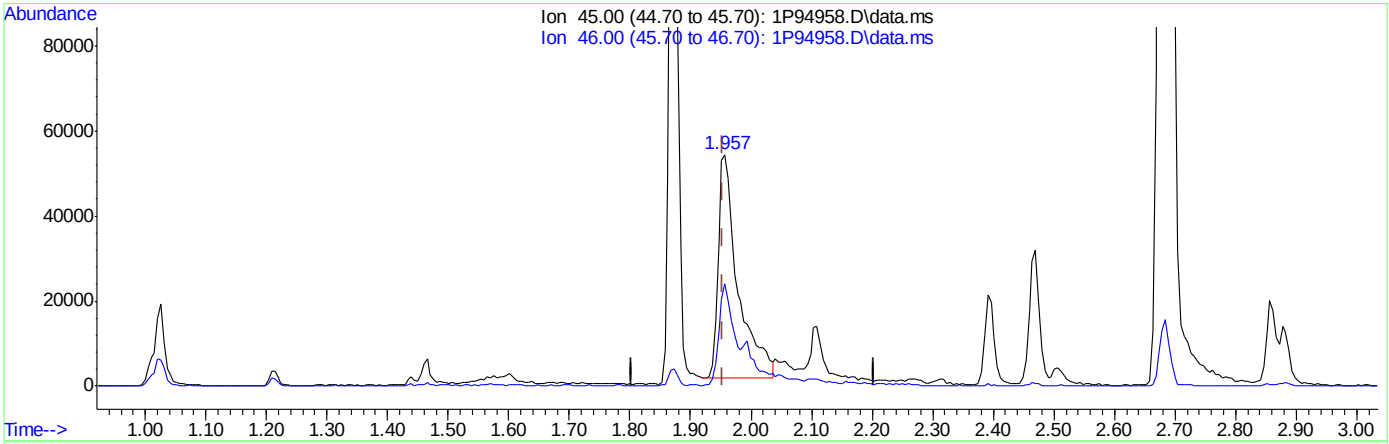
Sample Number: V1P3621-ICC3621 **Method:** SW846 8260D
Lab FileID: 1P94958.D **Analyst approved:** 11/04/22 12:50 Courtney Failla
Injection Time: 11/04/22 12:33 **Supervisor approved:** 11/07/22 17:40 Shanica O'Connor

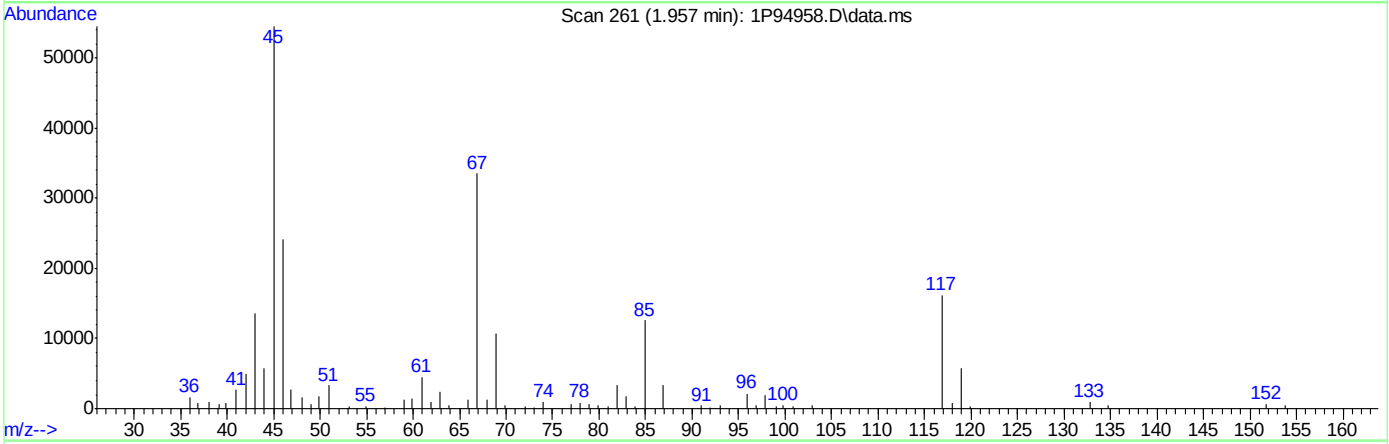
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94958.D
Acq On : 4 Nov 2022 12:33 pm
Operator : courtnef
Sample : ICC3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 04 12:44:43 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94958.D\data.ms

(10) Ethanol

1.957min (+0.004) 1123.91ug/L

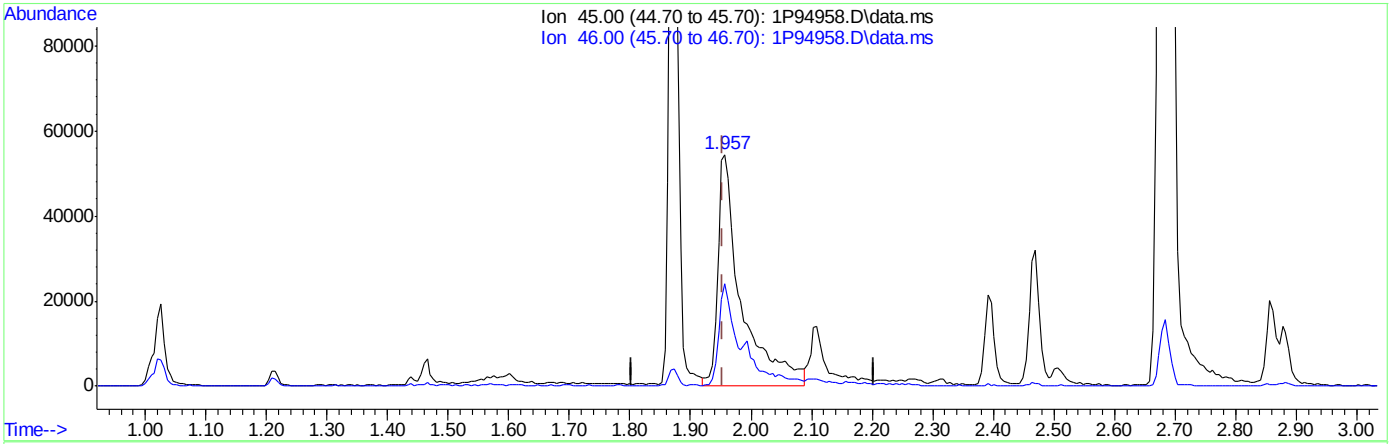
response 119263

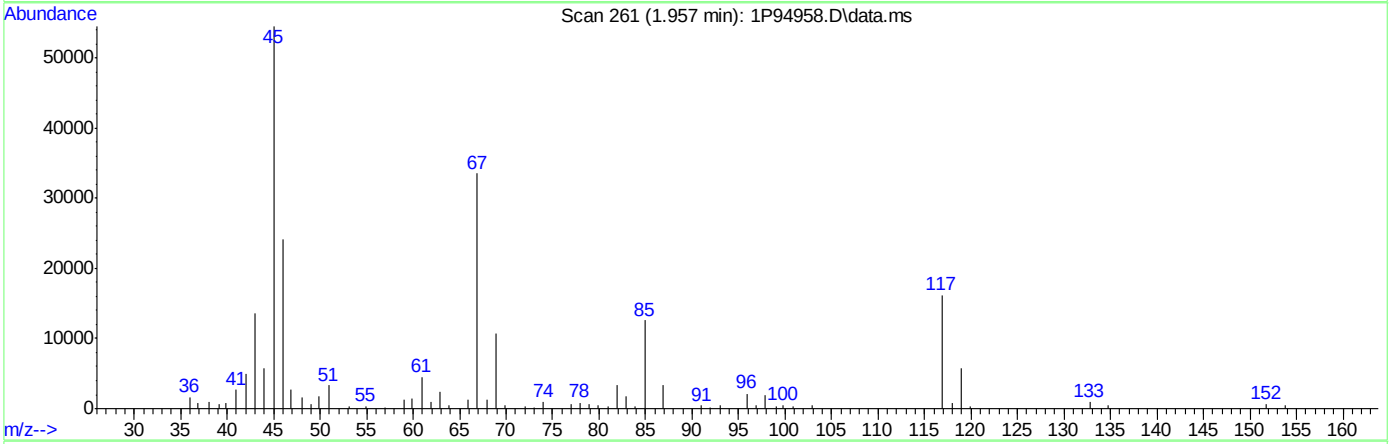
Ion	Exp%	Act%
45.00	100	100
46.00	42.10	45.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94958.D
Acq On : 4 Nov 2022 12:33 pm
Operator : courtnef
Sample : ICC3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 04 12:44:43 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94958.D\data.ms

(10) Ethanol

1.957min (+0.004) -50.00ug/L m

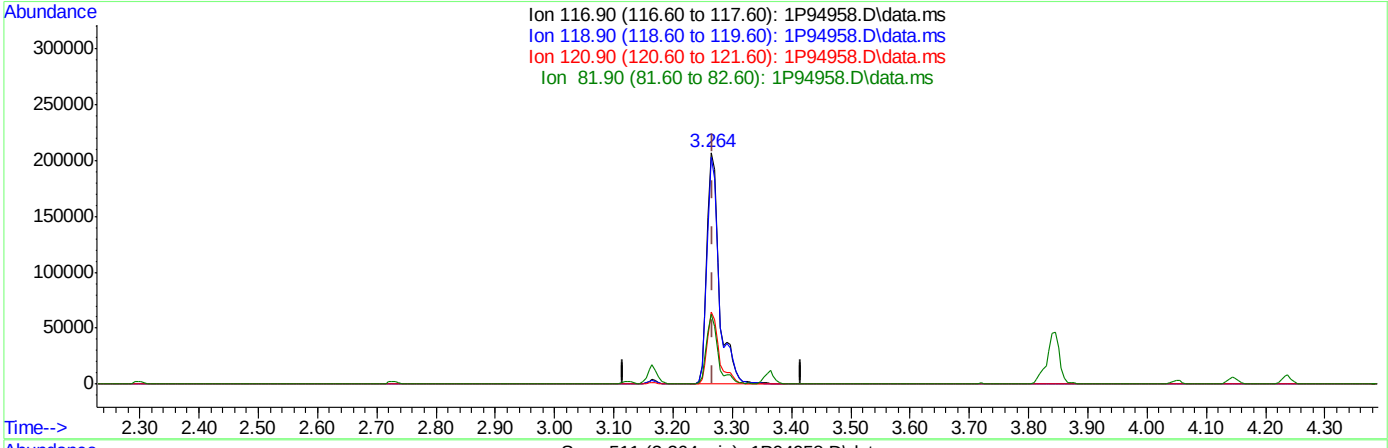
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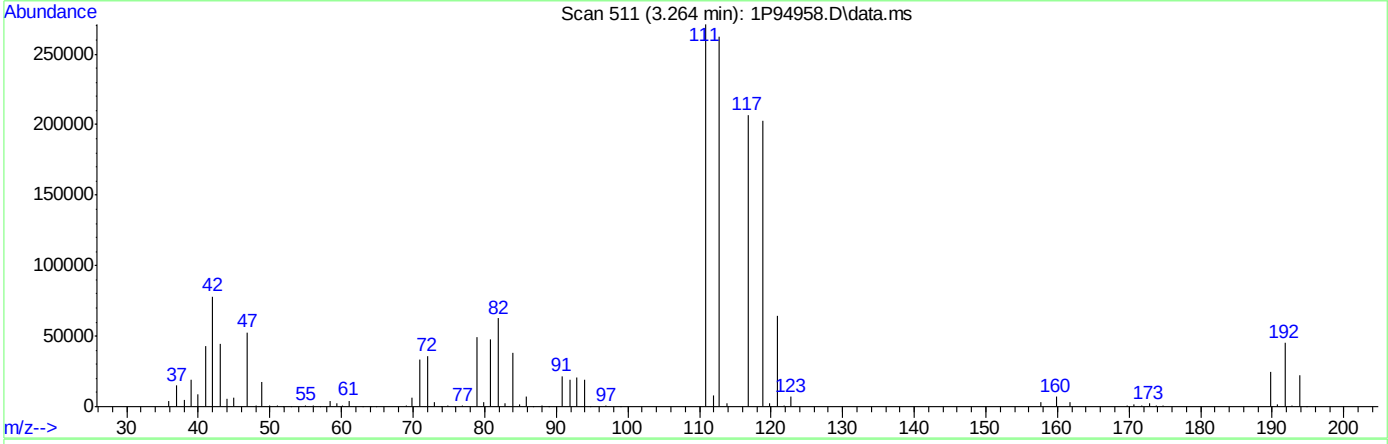
Ion	Exp%	Act%
45.00	100	100
46.00	42.10	44.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94958.D
Acq On : 4 Nov 2022 12:33 pm
Operator : courtnef
Sample : ICC3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 04 12:44:43 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94958.D\data.ms

(40) Carbon Tetrachloride ( )

3.264min (-0.002) 45.72ug/L

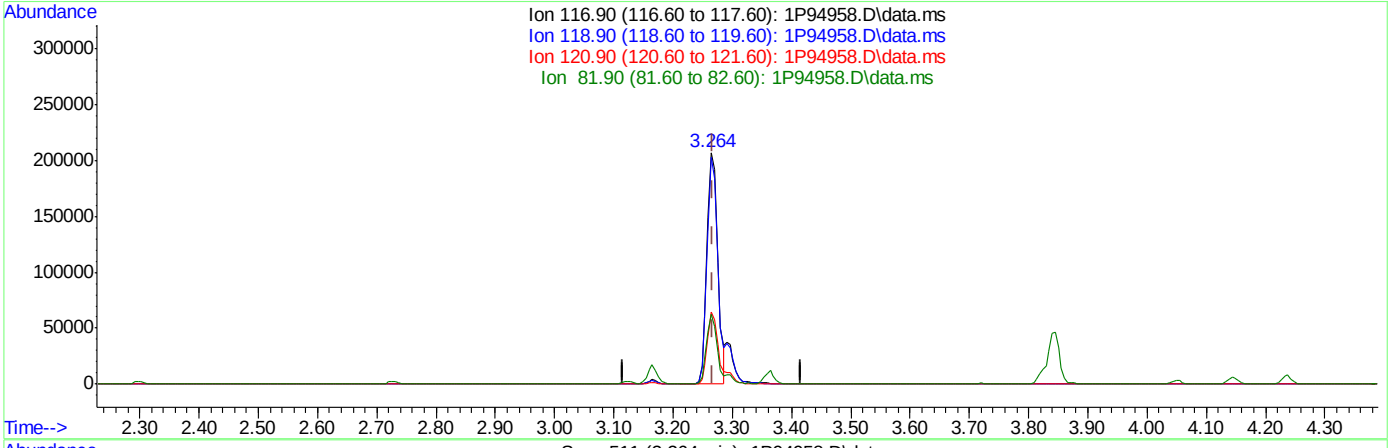
response 298223

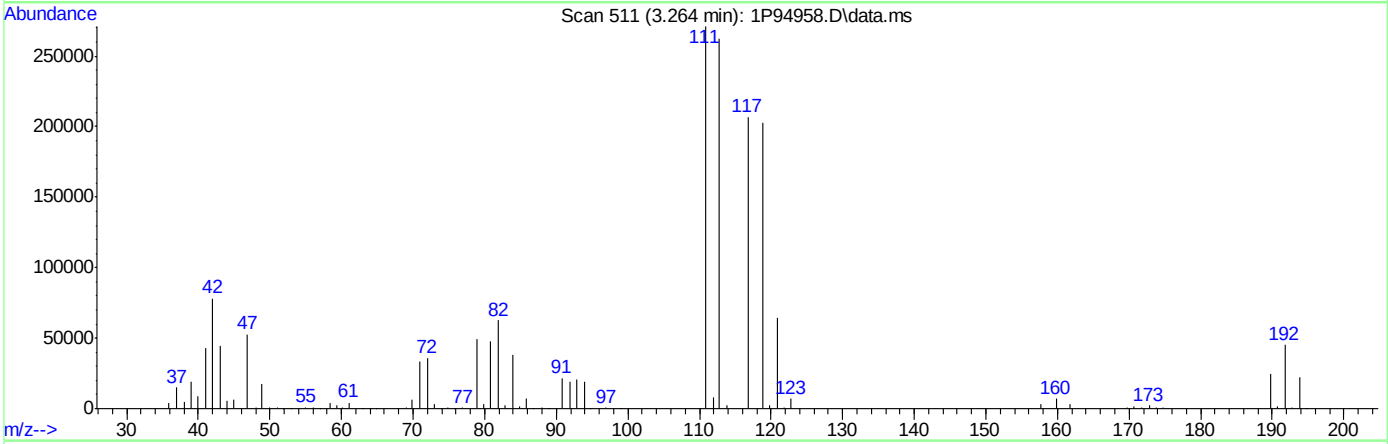
Ion	Exp%	Act%
116.90	100	100
118.90	98.90	97.84
120.90	30.30	31.04
81.90	27.70	30.02

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94958.D
Acq On : 4 Nov 2022 12:33 pm
Operator : courtnef
Sample : ICC3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 04 12:44:43 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94958.D\data.ms

(40) Carbon Tetrachloride ( )

3.264min (-0.002) 39.52ug/L m

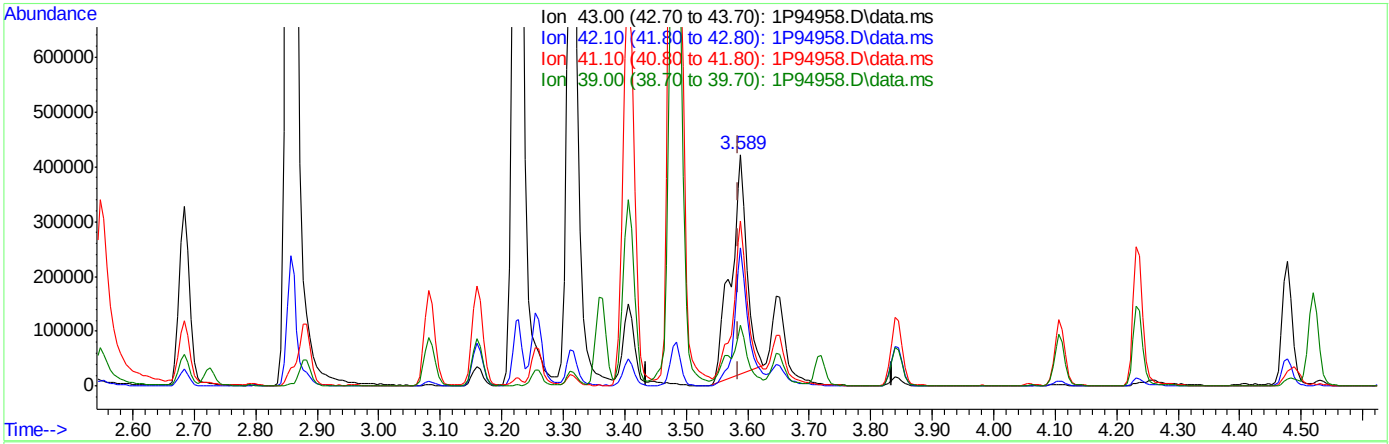
response 257792

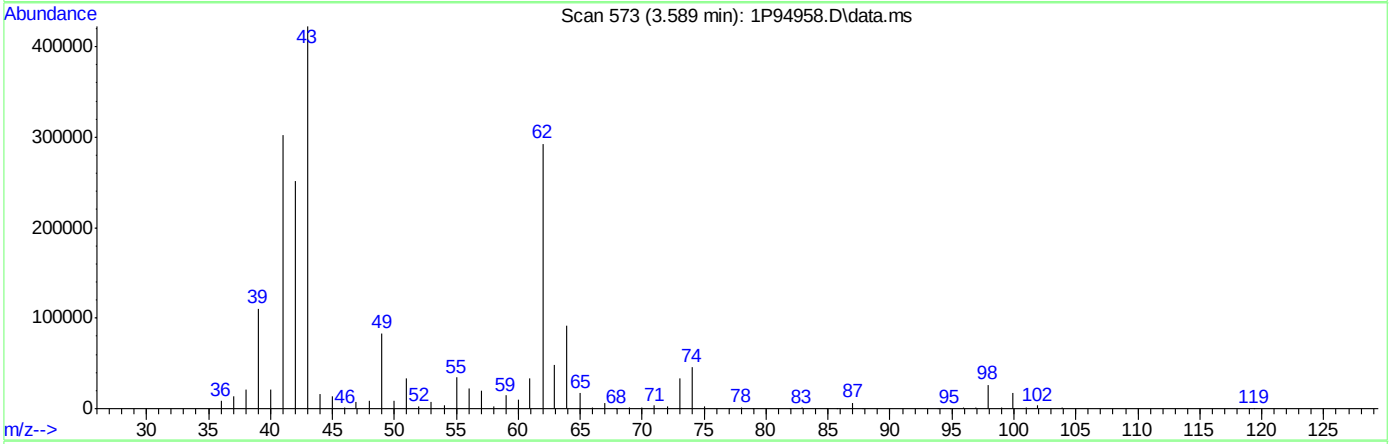
Ion	Exp%	Act%
116.90	100	100
118.90	98.90	97.84
120.90	30.30	31.04
81.90	27.70	30.18

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94958.D
Acq On : 4 Nov 2022 12:33 pm
Operator : courtnef
Sample : ICC3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 04 12:44:43 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94958.D\data.ms

(50) Isobutyl alcohol

3.589min (+0.003) 944.05ug/L

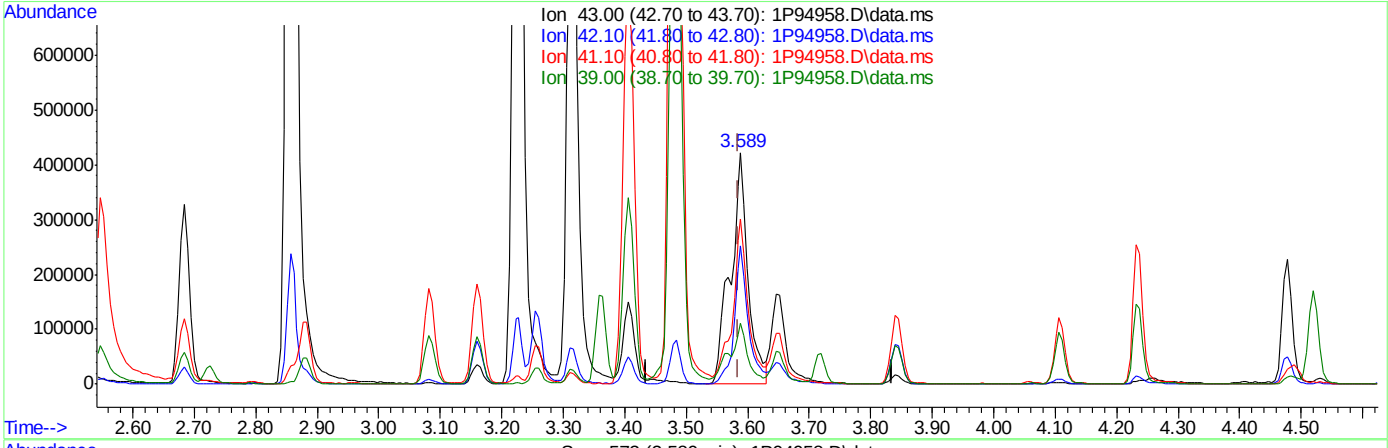
response 732796

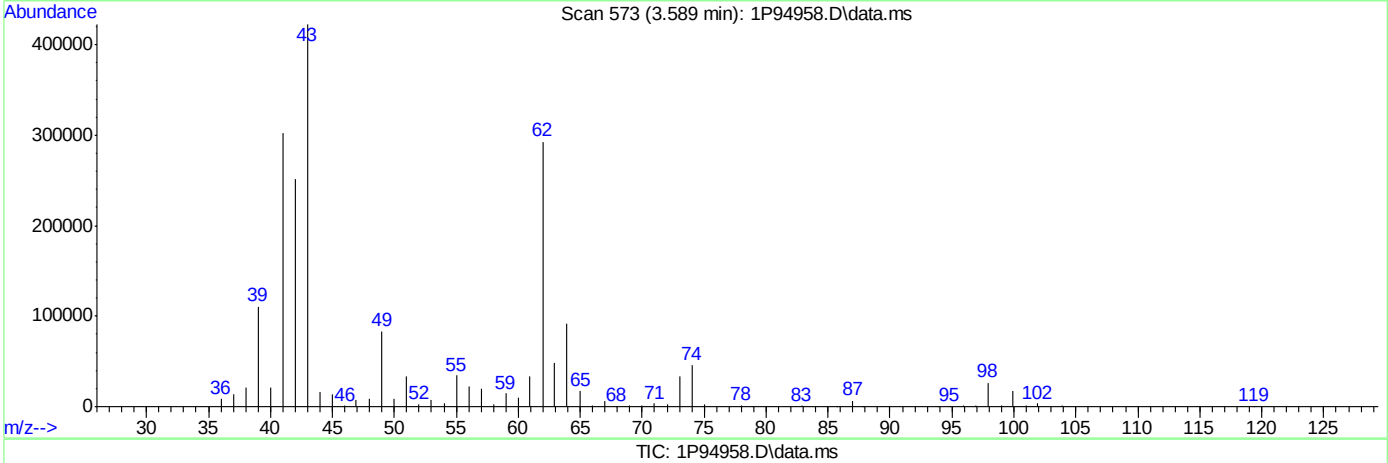
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	59.68
41.10	71.00	68.68
39.00	28.30	23.72

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94958.D
Acq On : 4 Nov 2022 12:33 pm
Operator : courtnef
Sample : ICC3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 04 12:44:43 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94958.D\data.ms

(50) Isobutyl alcohol

3.589min (+0.003) 1093.04ug/L m

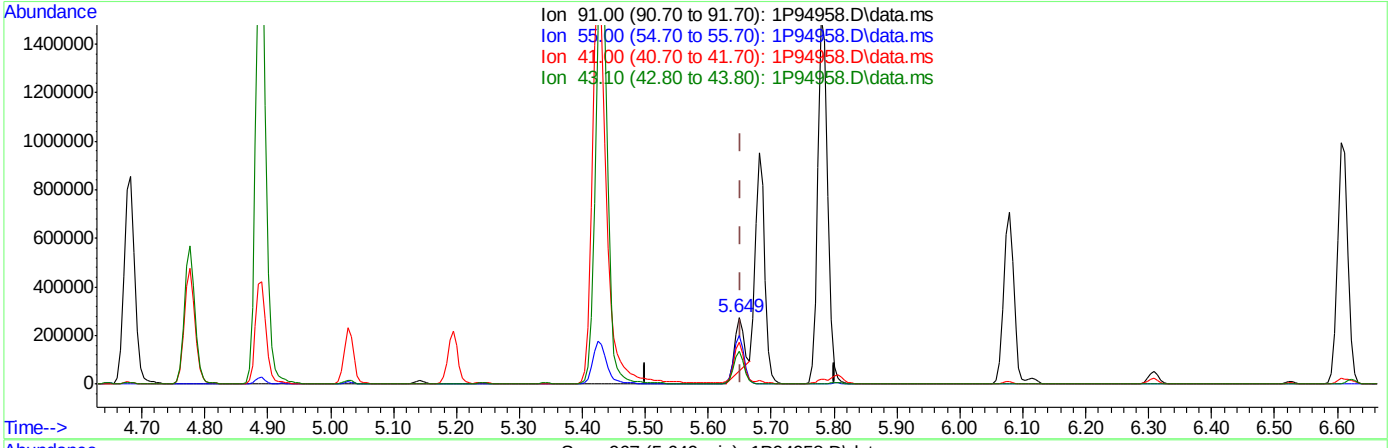
response 848447

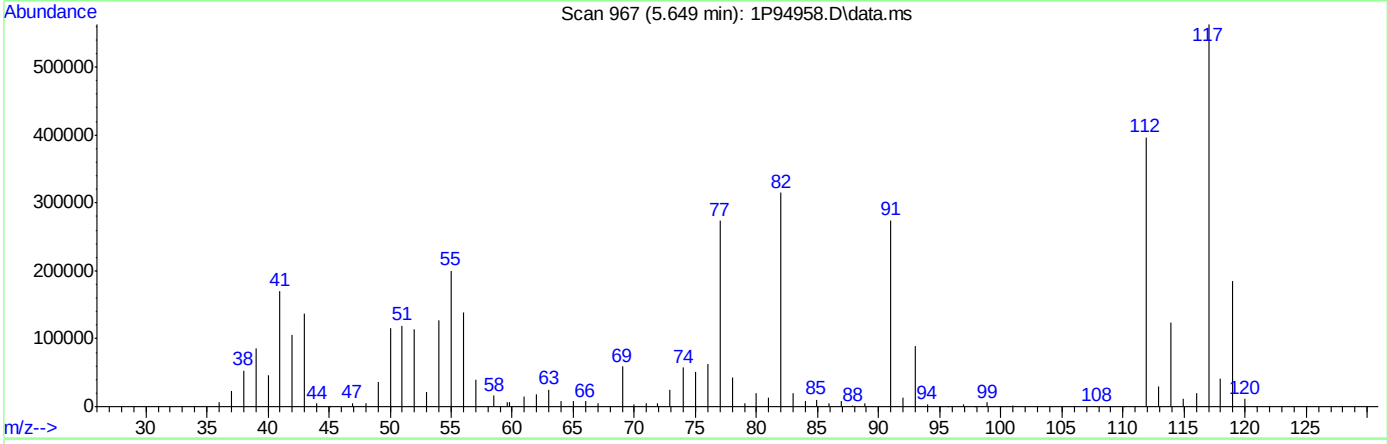
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	59.56
41.10	71.00	71.43
39.00	28.30	26.17

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94958.D
Acq On : 4 Nov 2022 12:33 pm
Operator : courtnef
Sample : ICC3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 04 12:44:43 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94958.D\data.ms

(76) 1-Chlorohexane

5.649min (-0.002) 28.79ug/L

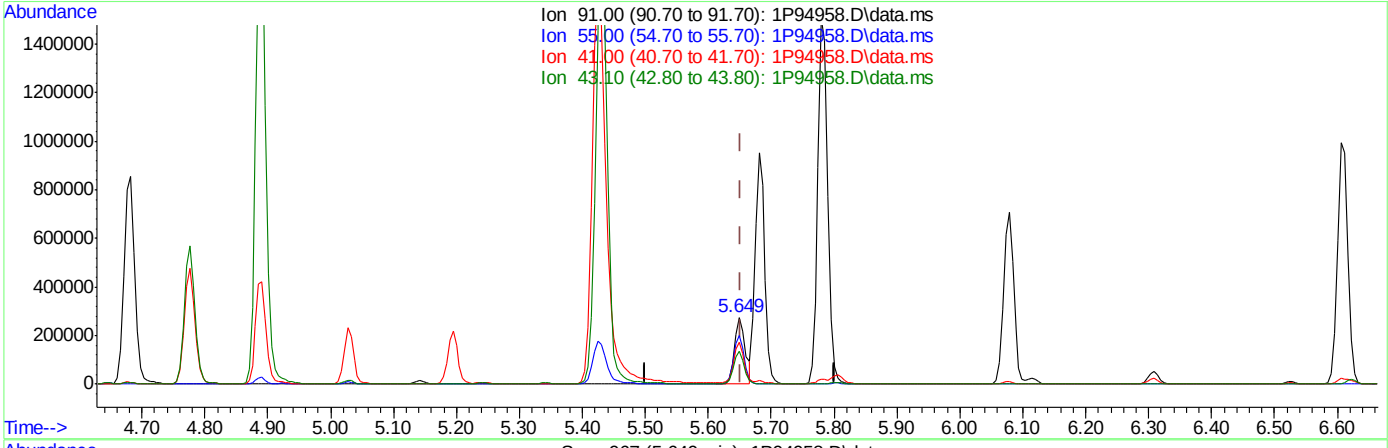
response 208640

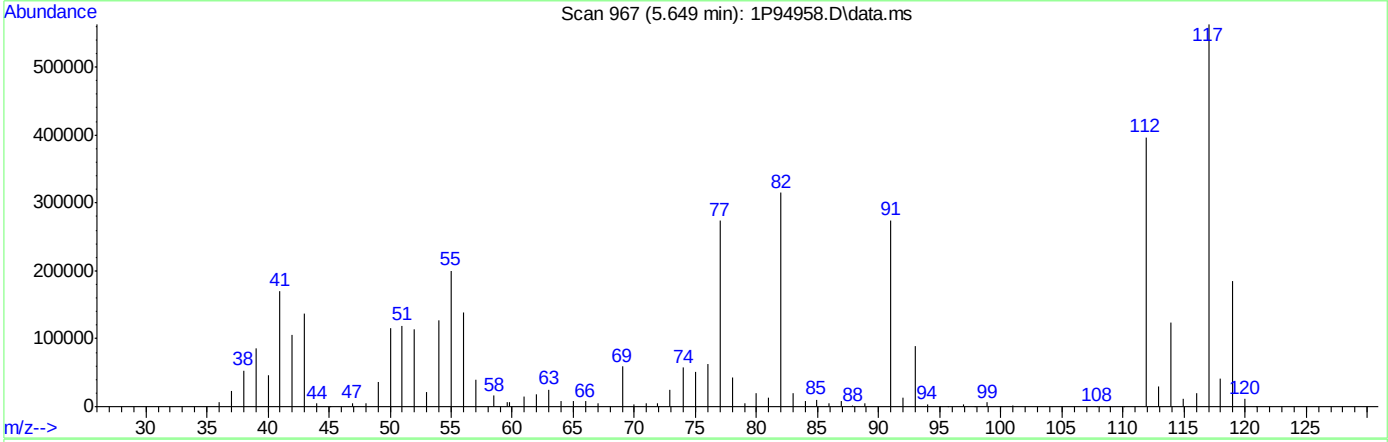
Ion	Exp%	Act%
91.00	100	100
55.00	65.90	71.66
41.00	54.50	59.37
43.10	42.60	49.02

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94958.D
Acq On : 4 Nov 2022 12:33 pm
Operator : courtnef
Sample : ICC3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 04 12:44:43 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94958.D\data.ms

(76) 1-Chlorohexane

5.649min (-0.002) 43.66ug/L m

response 316338

Ion	Exp%	Act%
91.00	100	100
55.00	65.90	73.19
41.00	54.50	62.07
43.10	42.60	49.98

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 11/07/22 17:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94960.D
Acq On : 4 Nov 2022 1:05 pm
Operator : courtnef
Sample : IC3621-6
Misc : MS52500,V1P3621,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 04 13:21:35 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.720	96	1539006	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.644	117	1006943	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.334	152	426828	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.259	113	330360	48.75	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.50%			
49) 1,2-Dichloroethane-d4	3.552	65	460722	50.59	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.18%			
63) Toluene-d8	4.645	98	1454750	50.33	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.66%			
86) 4-Bromofluorobenzene	6.497	174	322947	44.17	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 88.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.115	85	386365	74.94	ug/L	97
3) Chloromethane	1.235	50	544681	105.64	ug/L	100
4) 1,3-butadiene	1.308	39	465896	95.15	ug/L	100
5) Vinyl Chloride	1.298	62	446718	79.41	ug/L	99
6) Bromomethane	1.497	94	47536	20.98	ug/L	93
7) Chloroethane	1.575	64	123060	75.43	ug/L	99
8) Trichlorofluoromethane	1.664	101	448200	70.70	ug/L	100
9) Ethyl Ether	1.873	59	344105	67.97	ug/L	99
10) Ethanol	1.967	45	209765	Below Cal		99
11) 1,2-Dichlorotrifluoroe...	1.967	67	536646	87.83	ug/L	96
12) 1,1-Dichloroethene	1.973	61	661531	85.06	ug/L	97
13) Freon 113	2.004	101	389017	82.28	ug/L	92
14) Carbon Disulfide	1.988	76	1252161	90.36	ug/L	100
15) Iodomethane	2.051	142	53568	24.54	ug/L	99
16) Acrolein	2.151	56	670233	381.66	ug/L	100
17) Allyl chloride	2.239	41	508341	81.88	ug/L	96
18) Methylene Chloride	2.297	49	614018	98.55	ug/L	98
19) Acetone	2.313	43	1263293	424.06	ug/L	96
20) Methyl acetate	2.391	43	3023320	430.51	ug/L	96
21) trans-1,2-Dichloroethene	2.396	61	612093	79.55	ug/L	99
22) Hexane	2.459	56	348386	87.32	ug/L	96
23) Methyl Tert Butyl Ether	2.470	73	1445321	92.07	ug/L	72
24) Tert Butyl Alcohol	2.511	59	1383794	1076.95	ug/L	84
25) Acetonitrile	2.548	41	708166	878.55	ug/L	99
26) Di-isopropyl ether	2.684	45	1479523	88.31	ug/L	97
27) Chloroprene	2.726	53	2157667	78.38	ug/L	96
28) 1,1-Dichloroethane	2.726	63	788525	81.63	ug/L	99
29) Acrylonitrile	2.726	52	1372033	388.55	ug/L	98
30) ETBE	2.883	59	1461406	85.43	ug/L	99
31) Vinyl acetate	2.857	43	5505201	433.38	ug/L	98
32) cis-1,2-Dichloroethene	3.019	96	426245	73.14	ug/L	97
33) 2,2-Dichloropropane	3.081	77	661531	83.72	ug/L	99
34) Bromochloromethane	3.123	128	171051	65.75	ug/L	94
35) Cyclohexane	3.160	56	743931	87.54	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94960.D
Acq On : 4 Nov 2022 1:05 pm
Operator : courtnef
Sample : IC3621-6
Misc : MS52500,V1P3621,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 04 13:21:35 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.165	83	768143	76.68	ug/L		99
37) Ethyl acetate	3.228	43	3828647	408.29	ug/L		99
38) Tetrahydrofuran	3.259	42	276649	78.37	ug/L		99
40) Carbon Tetrachloride	3.265	117	504440m	75.01	ug/L		
41) 1,1,1-Trichloroethane	3.291	97	657460	75.19	ug/L		99
42) 2-Butanone	3.317	43	2219858	398.40	ug/L		100
43) 1,1-Dichloropropene	3.359	75	594999	76.72	ug/L		97
44) tert-Butyl formate	3.406	59	1817238	606.97	ug/L	#	65
45) Propionitrile	3.458	54	1181393	778.09	ug/L		99
46) Methacrylonitrile	3.484	41	4574171	911.86	ug/L		99
47) Benzene	3.489	78	1893531	81.33	ug/L		79
48) TAME	3.568	73	1357503	85.18	ug/L		92
50) Isobutyl alcohol	3.594	43	1453568m	1816.33	ug/L		
51) 1,2-Dichloroethane	3.589	62	616198	75.62	ug/L		99
52) Tert Amyl Alcohol	3.652	59	1136683	1096.21	ug/L		81
53) Trichloroethene	3.824	95	438581	72.39	ug/L		95
54) Methylcyclohexane	3.840	83	671728	82.39	ug/L		95
55) Dibromomethane	4.049	93	250068	73.62	ug/L		93
56) 1,2-Dichloropropane	4.107	63	433663	77.73	ug/L		99
57) Bromodichloromethane	4.143	83	506958	70.77	ug/L		96
58) Methyl methacrylate	4.232	41	548069	85.83	ug/L		94
59) 1,4-Dioxane	4.263	88	175703	1467.79	ug/L		99
60) 2-Chloroethyl vinyl ether	4.478	63	674106	141.60	ug/L		92
61) cis-1,3-Dichloropropene	4.520	75	666013	73.17	ug/L		96
64) Toluene	4.682	91	1841116	75.01	ug/L		99
65) 2-Nitropropane	4.776	41	1068994	413.49	ug/L		98
66) 4-Methyl-2-pentanone	4.891	43	3881707	408.37	ug/L		98
67) trans-1,3-Dichloropropene	4.917	75	588609	73.79	ug/L		92
68) Tetrachloroethene	4.938	166	371729	67.18	ug/L		99
69) Ethyl methacrylate	5.032	69	643126	81.90	ug/L		95
70) 1,1,2-Trichloroethane	5.017	83	313411	74.78	ug/L		97
71) Dibromochloromethane	5.142	129	330702	67.55	ug/L		94
72) 1,3-Dichloropropane	5.194	76	687534	74.51	ug/L		93
73) 1,2-Dibromoethane	5.294	107	371543	72.88	ug/L		96
74) 3,3-dimethyl-1-butanol	5.430	57	6311855	4326.98	ug/L		99
75) 2-hexanone	5.430	43	4224779	435.47	ug/L	#	49
76) 1-Chlorohexane	5.649	91	573917m	76.55	ug/L		
77) Ethylbenzene	5.681	91	1936954	74.31	ug/L		98
78) Chlorobenzene	5.655	112	1020664	73.54	ug/L		93
79) 1,1,1,2-Tetrachloroethane	5.697	131	334602	75.14	ug/L		98
80) m,p-Xylene	5.780	91	3130778	153.49	ug/L		98
81) o-Xylene	6.078	91	1496791	74.03	ug/L		98
82) Styrene	6.110	104	1150870	74.61	ug/L		96
83) Bromoform	6.115	173	181811	65.25	ug/L		96
84) Isopropylbenzene	6.308	105	1711151	74.28	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.528	53	189672	77.41	ug/L	#	80
88) n-Propylbenzene	6.607	91	2076892	76.24	ug/L		99
89) Bromobenzene	6.570	156	363484	66.34	ug/L	#	82
90) 1,1,2,2-Tetrachloroethane	6.627	83	559207	77.26	ug/L		99
91) 1,3,5-Trimethylbenzene	6.758	105	1411497	75.46	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94960.D
Acq On : 4 Nov 2022 1:05 pm
Operator : courtnef
Sample : IC3621-6
Misc : MS52500,V1P3621,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 04 13:21:35 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

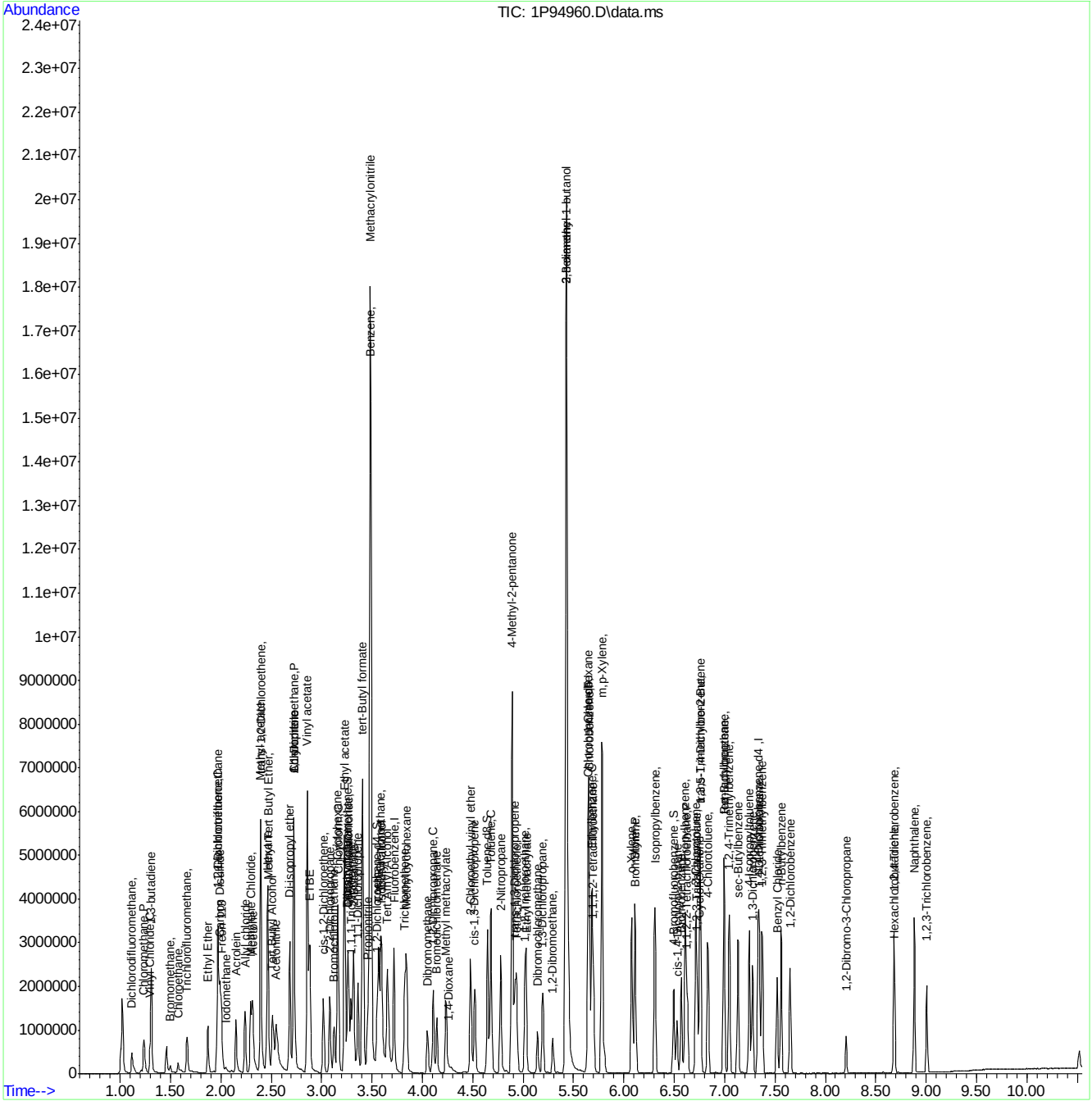
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.711	91	1210645	73.99	ug/L		97
93)	trans-1,4-Dichloro-2-B...	6.758	53	217888	79.27	ug/L		96
94)	1,2,3-Trichloropropane	6.727	110	192353	72.86	ug/L		97
95)	Cyclohexanone	6.748	55	192300	411.81	ug/L		95
96)	4-Chlorotoluene	6.831	91	1269640	74.70	ug/L		98
97)	tert-Butylbenzene	6.994	91	799533	74.95	ug/L		94
99)	1,2,4-Trimethylbenzene	7.046	105	1372449	76.27	ug/L		99
100)	Pentachloroethane	6.994	167	176874	71.15	ug/L	#	91
101)	sec-Butylbenzene	7.135	105	1540427	76.35	ug/L		99
102)	4-Isopropyltoluene	7.245	119	1320668	75.73	ug/L		98
103)	1,3-Dichlorobenzene	7.276	146	666677	70.58	ug/L		96
104)	1,2,3-Trimethylbenzene	7.370	105	1325751	74.91	ug/L		97
105)	1,4-Dichlorobenzene	7.344	146	684459	70.27	ug/L		97
106)	n-Butylbenzene	7.558	92	678978	80.99	ug/L		96
107)	Benzyl Chloride	7.522	126	202391	72.19	ug/L		97
108)	1,2-Dichlorobenzene	7.653	146	631631	71.04	ug/L		98
109)	1,2-Dibromo-3-Chloropr...	8.207	75	140933	71.63	ug/L		98
110)	Hexachlorobutadiene	8.688	225	115806	60.51	ug/L		96
111)	1,2,4-Trichlorobenzene	8.683	180	351823	68.27	ug/L		98
112)	Naphthalene	8.882	128	1587146	76.82	ug/L		100
113)	1,2,3-Trichlorobenzene	9.007	180	324587	65.58	ug/L		94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94960.D
Acq On : 4 Nov 2022 1:05 pm
Operator : courtnef
Sample : IC3621-6
Misc : MS52500,V1P3621,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 04 13:21:35 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V1P3621-IC3621
Lab FileID: 1P94960.D
Injection Time: 11/04/22 13:05

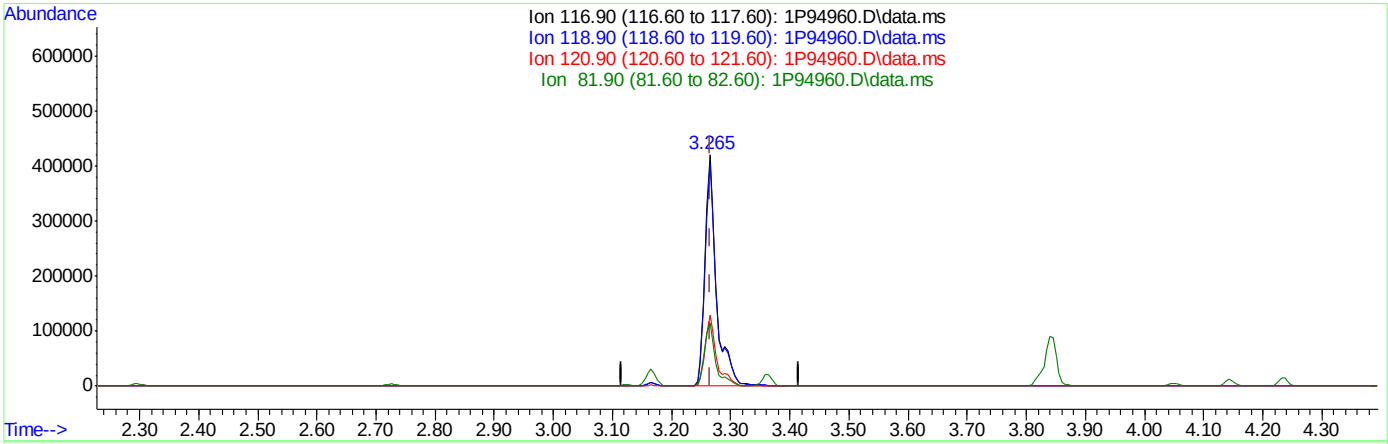
Method: SW846 8260D
Analyst approved: 11/04/22 14:14 Courtney Failla
Supervisor approved: 11/07/22 17:40 Shanica O'Connor

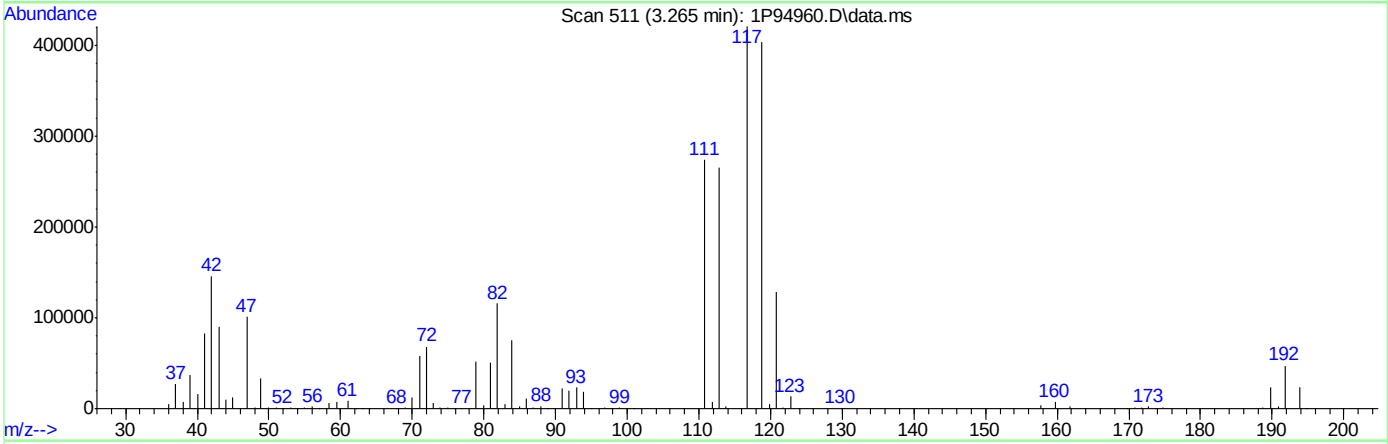
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94960.D
Acq On : 4 Nov 2022 1:05 pm
Operator : courtnef
Sample : IC3621-6
Misc : MS52500,V1P3621,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 04 13:19:11 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94960.D\data.ms

(40) Carbon Tetrachloride ( )

3.265min (-0.002) 86.07ug/L

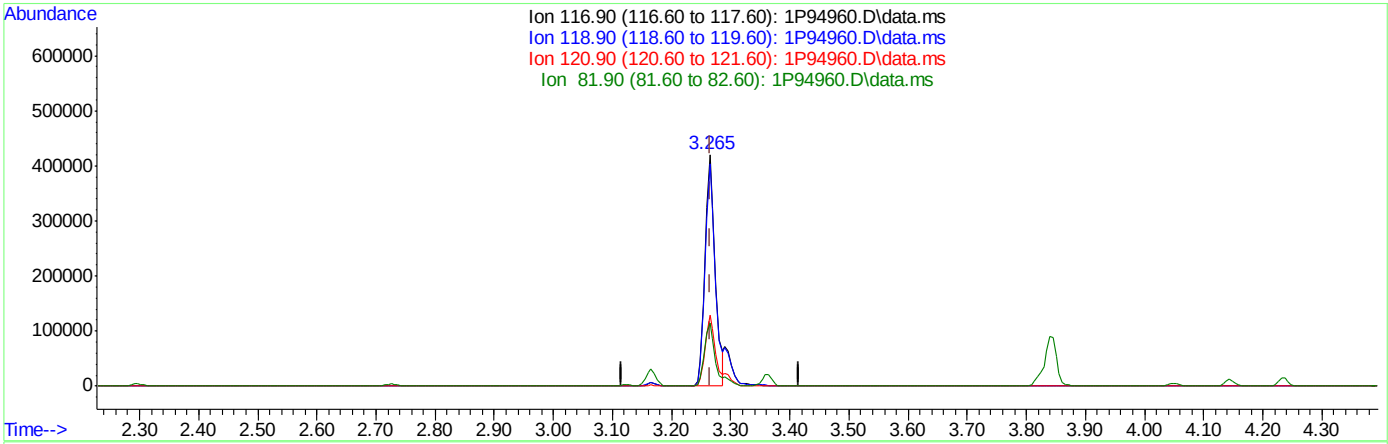
response 578818

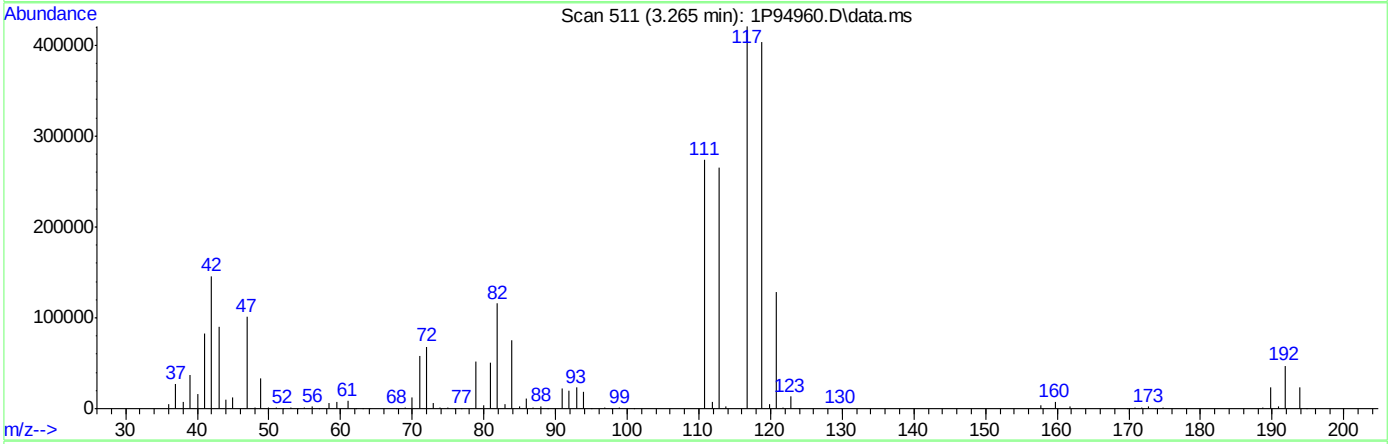
Ion	Exp%	Act%
116.90	100	100
118.90	98.90	95.86
120.90	30.30	30.57
81.90	27.70	27.36

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94960.D
Acq On : 4 Nov 2022 1:05 pm
Operator : courtnef
Sample : IC3621-6
Misc : MS52500,V1P3621,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 04 13:19:11 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94960.D\data.ms

(40) Carbon Tetrachloride ( )

3.265min (-0.002) 75.01ug/L m

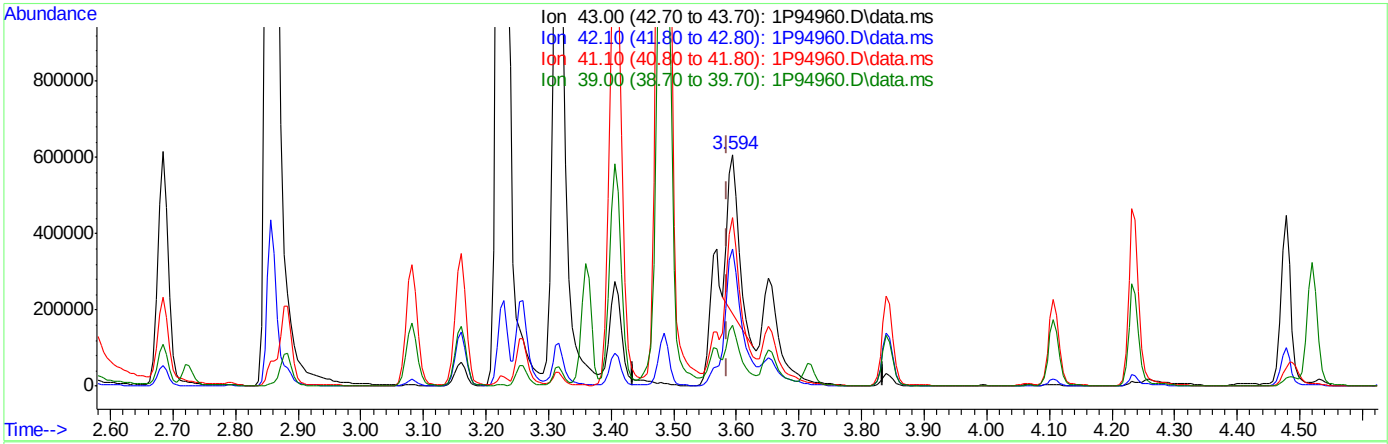
response 504440

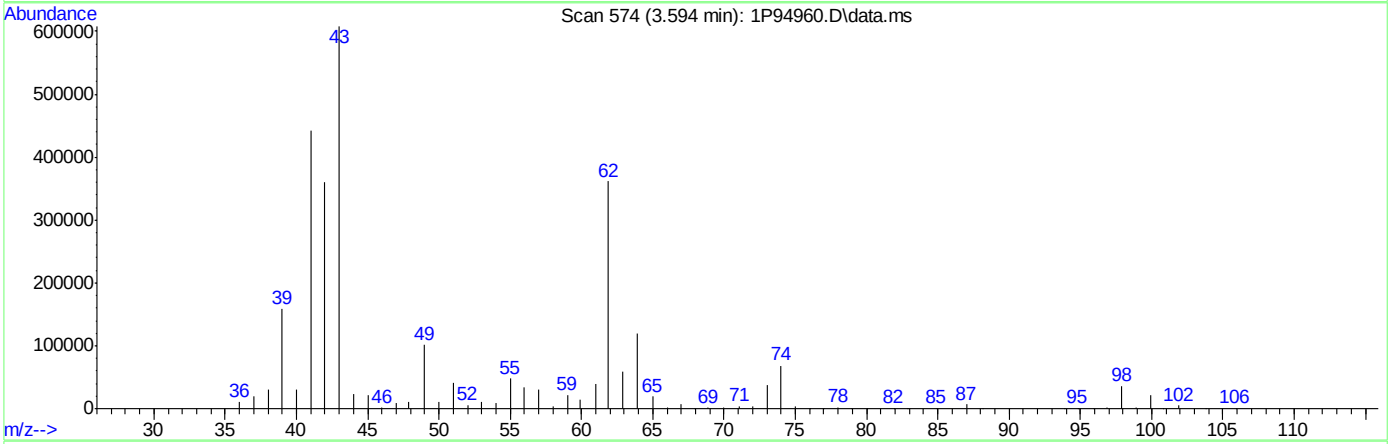
Ion	Exp%	Act%
116.90	100	100
118.90	98.90	95.86
120.90	30.30	30.57
81.90	27.70	27.45

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94960.D
Acq On : 4 Nov 2022 1:05 pm
Operator : courtnef
Sample : IC3621-6
Misc : MS52500,V1P3621,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 04 13:19:11 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94960.D\data.ms

(50) Isobutyl alcohol

3.594min (+0.009) 591.93ug/L

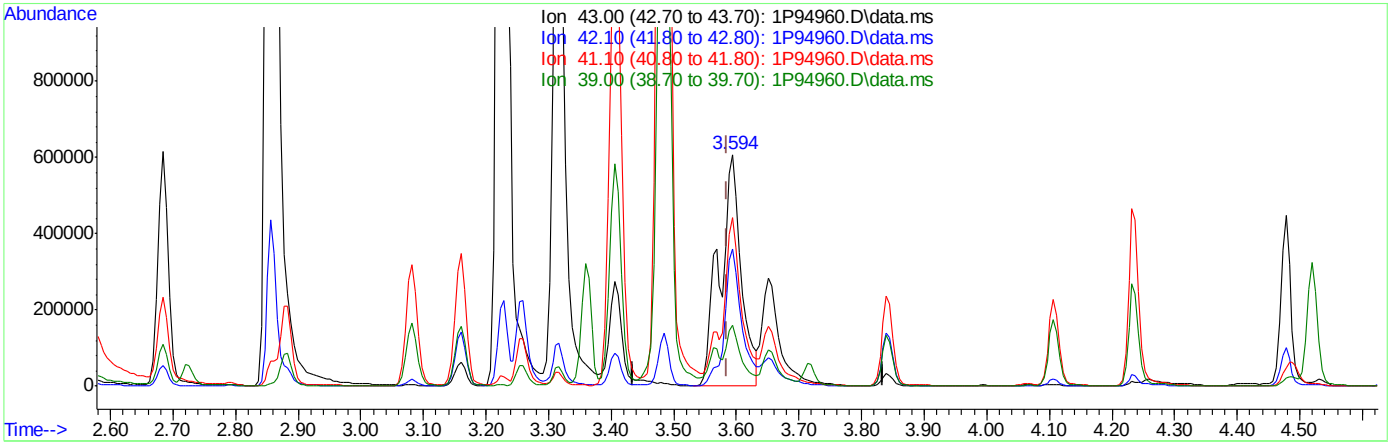
response 473713

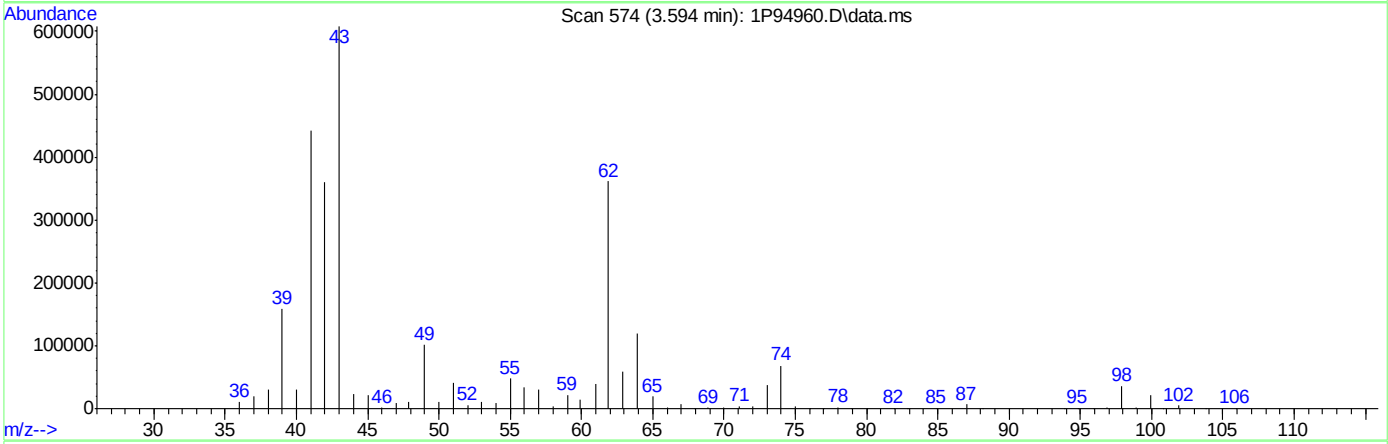
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	58.91
41.10	71.00	72.15
39.00	28.30	25.54

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94960.D
Acq On : 4 Nov 2022 1:05 pm
Operator : courtnef
Sample : IC3621-6
Misc : MS52500,V1P3621,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 04 13:19:11 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94960.D\data.ms

(50) Isobutyl alcohol

3.594min (+0.009) 1816.33ug/L m

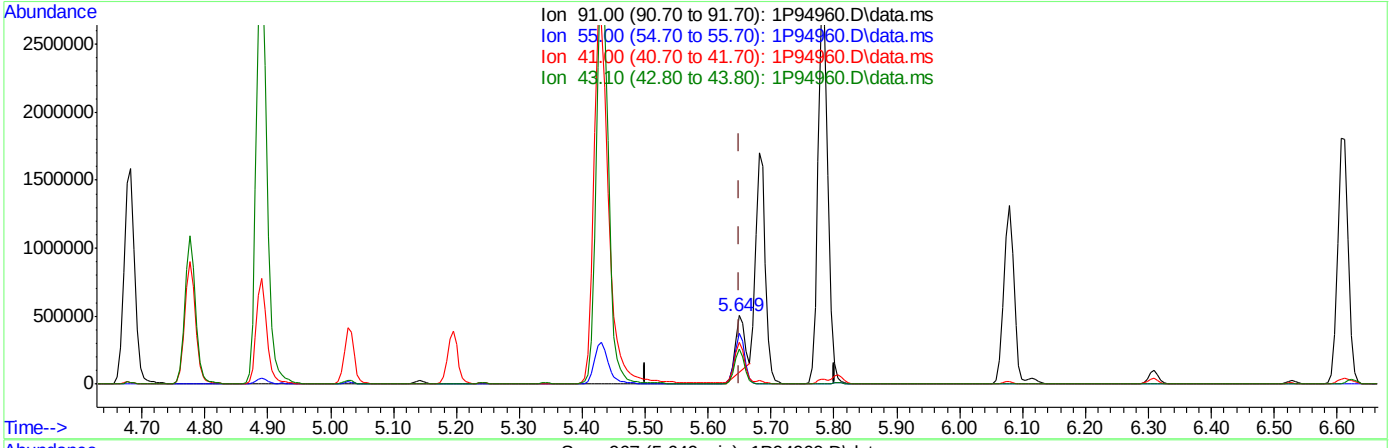
response 1453568

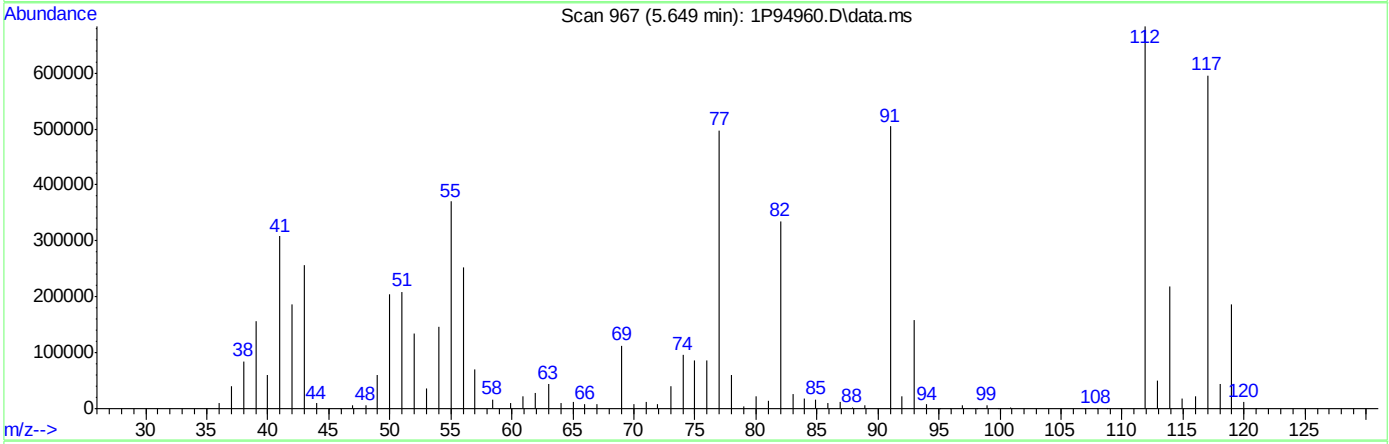
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	59.34
41.10	71.00	72.71
39.00	28.30	26.09

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94960.D
Acq On : 4 Nov 2022 1:05 pm
Operator : courtnef
Sample : IC3621-6
Misc : MS52500,V1P3621,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 04 13:19:11 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94960.D\data.ms

(76) 1-Chlorohexane

5.649min (-0.002) 53.48ug/L

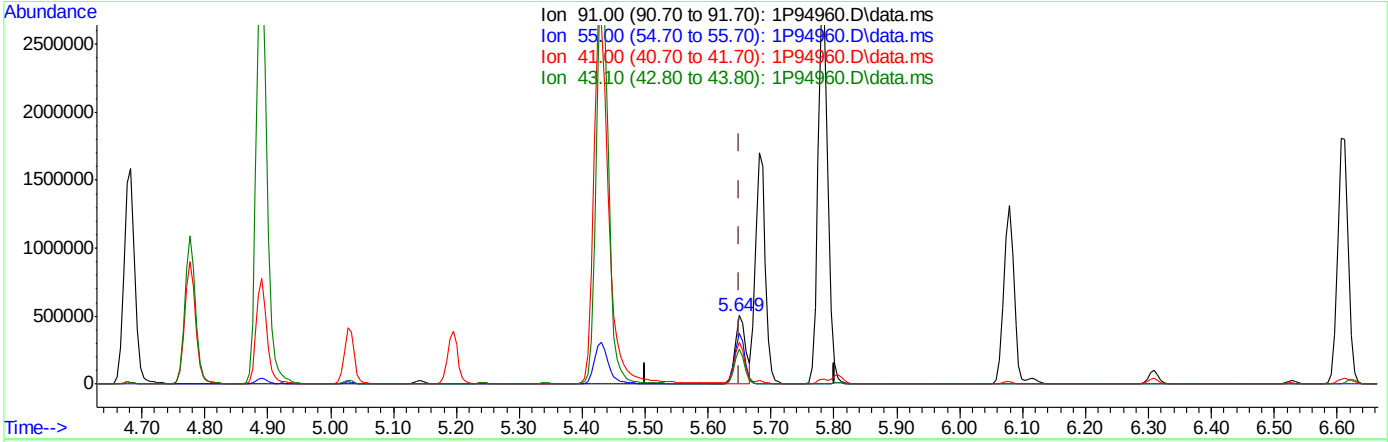
response 400959

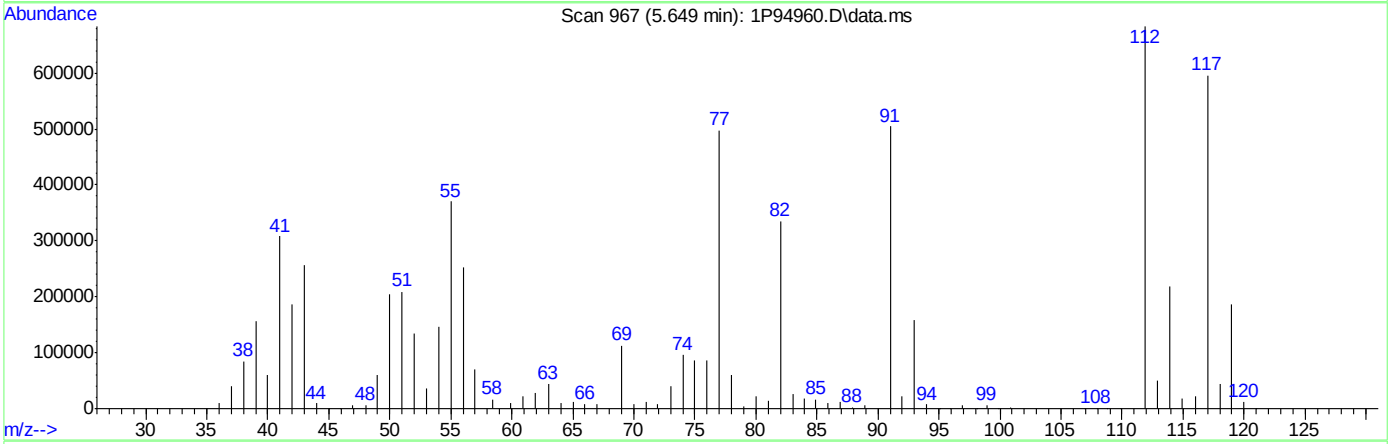
Ion	Exp%	Act%
91.00	100	100
55.00	65.90	72.22
41.00	54.50	58.97
43.10	42.60	50.19

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94960.D
Acq On : 4 Nov 2022 1:05 pm
Operator : courtnef
Sample : IC3621-6
Misc : MS52500,V1P3621,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 04 13:19:11 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94960.D\data.ms

(76) 1-Chlorohexane

5.649min (-0.002) 76.55ug/L m

response 573917

Ion	Exp%	Act%
91.00	100	100
55.00	65.90	73.43
41.00	54.50	61.03
43.10	42.60	50.90

1P94962.D

Manual Integrations APPROVED (compounds with "m" flag)

Shanica O'Connor 11/07/22 17:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94962.D
Acq On : 4 Nov 2022 1:37 pm
Operator : courtnef
Sample : IC3621-7
Misc : MS52500,V1P3621,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 04 13:50:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.718	96	1588520	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.642	117	1033994	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.332	152	429052	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.263	113	344426	49.24	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.48%				
49) 1,2-Dichloroethane-d4	3.550	65	485888	51.69	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.38%				
63) Toluene-d8	4.649	98	1505078	50.71	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.42%				
86) 4-Bromofluorobenzene	6.495	174	333283	45.35	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 90.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.118	85	583861	109.72	ug/L		100
3) Chloromethane	1.233	50	845927	158.95	ug/L		98
4) 1,3-butadiene	1.307	39	681605	151.67	ug/L		98
5) Vinyl Chloride	1.296	62	666890	114.85	ug/L		98
6) Bromomethane	1.500	94	71128	30.41	ug/L		97
7) Chloroethane	1.573	64	184972	112.95	ug/L		94
8) Trichlorofluoromethane	1.662	101	484703	74.07	ug/L		100
9) Ethyl Ether	1.871	59	443847	84.94	ug/L		95
10) Ethanol	1.976	45	256836	Below Cal			95
11) 1,2-Dichlorotrifluoroe...	1.971	67	770831	122.22	ug/L		98
12) 1,1-Dichloroethene	1.971	61	972233	121.12	ug/L		95
13) Freon 113	2.002	101	563455	115.46	ug/L		94
14) Carbon Disulfide	1.986	76	1858503	129.94	ug/L		100
15) Iodomethane	2.049	142	86765	35.89	ug/L		95
16) Acrolein	2.149	56	971355	535.90	ug/L		100
17) Allyl chloride	2.237	41	773552	120.72	ug/L		95
18) Methylene Chloride	2.295	49	881410	186.62	ug/L		97
19) Acetone	2.316	43	1756131	571.12	ug/L		97
20) Methyl acetate	2.394	43	4377466	603.90	ug/L		97
21) trans-1,2-Dichloroethene	2.394	61	935248	117.76	ug/L		99
22) Hexane	2.462	56	517987	125.78	ug/L		96
23) Methyl Tert Butyl Ether	2.468	73	2162158	133.44	ug/L		75
24) Tert Butyl Alcohol	2.520	59	1919519	1447.31	ug/L		81
25) Acetonitrile	2.551	41	944814	Below Cal			99
26) Di-isopropyl ether	2.687	45	2188310	126.54	ug/L		97
27) Chloroprene	2.724	53	3118204	109.75	ug/L		99
28) 1,1-Dichloroethane	2.724	63	1176487	118.00	ug/L		99
29) Acrylonitrile	2.724	52	1985815	544.84	ug/L		94
30) ETBE	2.881	59	2194636	121.31	ug/L		97
31) Vinyl acetate	2.860	43	7866938	599.99	ug/L		99
32) cis-1,2-Dichloroethene	3.017	96	631273	104.95	ug/L		92
33) 2,2-Dichloropropane	3.080	77	1020377	125.11	ug/L		99
34) Bromochloromethane	3.121	128	249760	93.02	ug/L	#	86
35) Cyclohexane	3.158	56	1119718	127.65	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94962.D
Acq On : 4 Nov 2022 1:37 pm
Operator : courtnef
Sample : IC3621-7
Misc : MS52500,V1P3621,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 04 13:50:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.163	83	1170782	113.23	ug/L		98
37) Ethyl acetate	3.226	43	5525344	570.86	ug/L		99
38) Tetrahydrofuran	3.257	42	409135	112.29	ug/L		97
40) Carbon Tetrachloride	3.263	117	775138m	111.67	ug/L		
41) 1,1,1-Trichloroethane	3.294	97	1013588	112.31	ug/L		99
42) 2-Butanone	3.315	43	3152966	548.23	ug/L		98
43) 1,1-Dichloropropene	3.362	75	903565	112.88	ug/L		99
44) tert-Butyl formate	3.409	59	2832029	813.96	ug/L	#	64
45) Propionitrile	3.461	54	1748994	1116.02	ug/L		100
46) Methacrylonitrile	3.487	41	6340433	1224.56	ug/L		97
47) Benzene	3.493	78	2904453	120.86	ug/L		94
48) TAME	3.566	73	2034502	119.31	ug/L		92
50) Isobutyl alcohol	3.597	43	1995230m	2415.46	ug/L		
51) 1,2-Dichloroethane	3.587	62	911921	108.42	ug/L		98
52) Tert Amyl Alcohol	3.660	59	1608748	1600.26	ug/L		82
53) Trichloroethene	3.822	95	669740	107.09	ug/L		94
54) Methylcyclohexane	3.843	83	1008544	119.84	ug/L		97
55) Dibromomethane	4.047	93	371341	105.92	ug/L		89
56) 1,2-Dichloropropane	4.105	63	653068	113.40	ug/L		98
57) Bromodichloromethane	4.146	83	776286	100.91	ug/L		97
58) Methyl methacrylate	4.235	41	811707	123.16	ug/L		97
59) 1,4-Dioxane	4.262	88	248640	2014.00	ug/L		95
60) 2-Chloroethyl vinyl ether	4.476	63	1077833	219.34	ug/L		92
61) cis-1,3-Dichloropropene	4.523	75	1007790	104.59	ug/L		99
64) Toluene	4.680	91	2782431	110.39	ug/L		98
65) 2-Nitropropane	4.779	41	1595059	565.50	ug/L		99
66) 4-Methyl-2-pentanone	4.889	43	5468772	560.28	ug/L		98
67) trans-1,3-Dichloropropene	4.921	75	892065	105.24	ug/L		94
68) Tetrachloroethene	4.936	166	561841	98.88	ug/L		99
69) Ethyl methacrylate	5.030	69	963883	119.54	ug/L		95
70) 1,1,2-Trichloroethane	5.020	83	467357	108.59	ug/L		98
71) Dibromochloromethane	5.145	129	507559	96.16	ug/L		98
72) 1,3-Dichloropropane	5.192	76	1012308	106.84	ug/L		89
73) 1,2-Dibromoethane	5.292	107	550834	105.22	ug/L		94
74) 3,3-dimethyl-1-butanol	5.433	57	8914775	5951.48	ug/L		98
75) 2-hexanone	5.433	43	5747814	576.96	ug/L	#	47
76) 1-Chlorohexane	5.653	91	835059m	108.47	ug/L		
77) Ethylbenzene	5.684	91	2946619	110.09	ug/L		100
78) Chlorobenzene	5.653	112	1534890	107.70	ug/L		92
79) 1,1,1,2-Tetrachloroethane	5.700	131	500609	109.47	ug/L		98
80) m,p-Xylene	5.784	91	4695132	224.16	ug/L		100
81) o-Xylene	6.076	91	2282320	109.93	ug/L		97
82) Styrene	6.108	104	1708432	107.86	ug/L		94
83) Bromoform	6.118	173	285369	92.68	ug/L		96
84) Isopropylbenzene	6.307	105	2551247	107.86	ug/L		98
87) cis-1,4-Dichloro-2-butene	6.526	53	286534	116.34	ug/L	#	85
88) n-Propylbenzene	6.610	91	3078090	112.40	ug/L		99
89) Bromobenzene	6.573	156	541339	98.29	ug/L		88
90) 1,1,2,2-Tetrachloroethane	6.631	83	825328	113.44	ug/L		98
91) 1,3,5-Trimethylbenzene	6.756	105	2088517	111.07	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94962.D
Acq On : 4 Nov 2022 1:37 pm
Operator : courtnef
Sample : IC3621-7
Misc : MS52500,V1P3621,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 04 13:50:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration

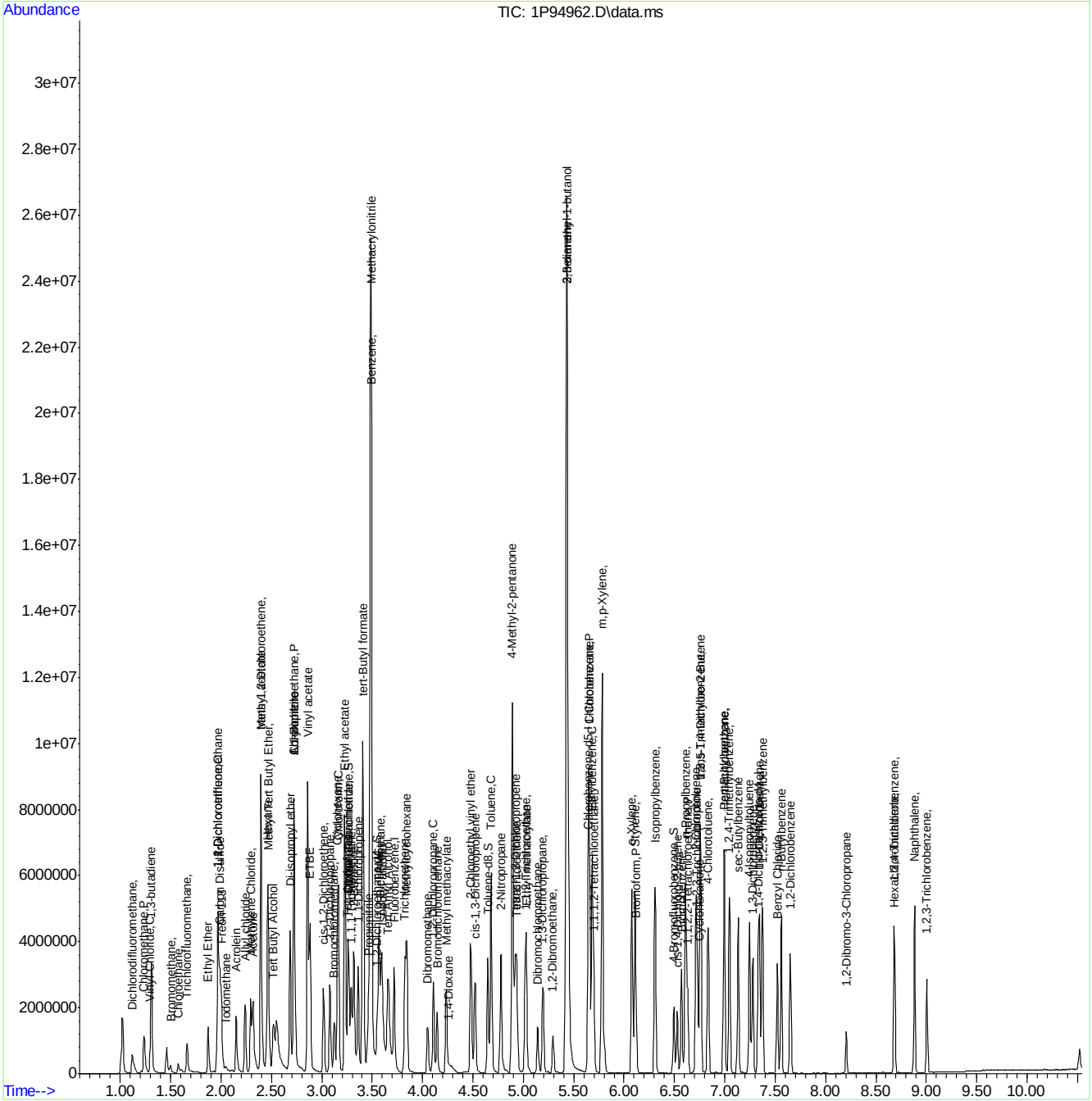
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.714	91	1805937	109.80	ug/L		98
93)	trans-1,4-Dichloro-2-B...	6.756	53	328733	118.97	ug/L		91
94)	1,2,3-Trichloropropane	6.725	110	280817	105.82	ug/L		98
95)	Cyclohexanone	6.746	55	272657	580.86	ug/L		94
96)	4-Chlorotoluene	6.835	91	1888844	110.56	ug/L		99
97)	tert-Butylbenzene	6.992	91	1186564	110.65	ug/L		92
99)	1,2,4-Trimethylbenzene	7.044	105	2008868	111.06	ug/L		98
100)	Pentachloroethane	6.997	167	264397	100.86	ug/L	#	88
101)	sec-Butylbenzene	7.133	105	2245455	110.72	ug/L		99
102)	4-Isopropyltoluene	7.243	119	1940540	110.71	ug/L		97
103)	1,3-Dichlorobenzene	7.279	146	981849	103.41	ug/L		97
104)	1,2,3-Trimethylbenzene	7.373	105	1926166	108.27	ug/L		100
105)	1,4-Dichlorobenzene	7.342	146	1004269	102.57	ug/L		96
106)	n-Butylbenzene	7.562	92	989871	117.46	ug/L		96
107)	Benzyl Chloride	7.520	126	296593	96.17	ug/L		95
108)	1,2-Dichlorobenzene	7.651	146	919985	102.93	ug/L		98
109)	1,2-Dibromo-3-Chloropr...	8.205	75	209054	98.47	ug/L		95
110)	Hexachlorobutadiene	8.686	225	171439	89.12	ug/L		95
111)	1,2,4-Trichlorobenzene	8.681	180	507853	98.03	ug/L		98
112)	Naphthalene	8.885	128	2270877	109.34	ug/L		100
113)	1,2,3-Trichlorobenzene	9.005	180	460249	92.51	ug/L		93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94962.D
Acq On : 4 Nov 2022 1:37 pm
Operator : courtnef
Sample : IC3621-7
Misc : MS52500,V1P3621,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 04 13:50:23 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V1P3621-IC3621
Lab FileID: 1P94962.D
Injection Time: 11/04/22 13:37

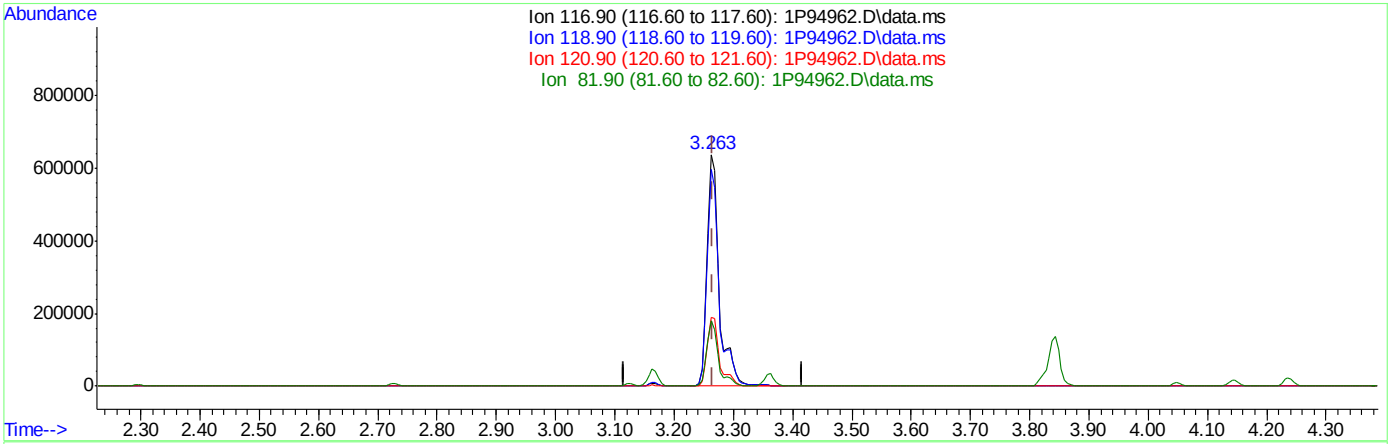
Method: SW846 8260D
Analyst approved: 11/04/22 14:14 Courtney Failla
Supervisor approved: 11/07/22 17:40 Shanica O'Connor

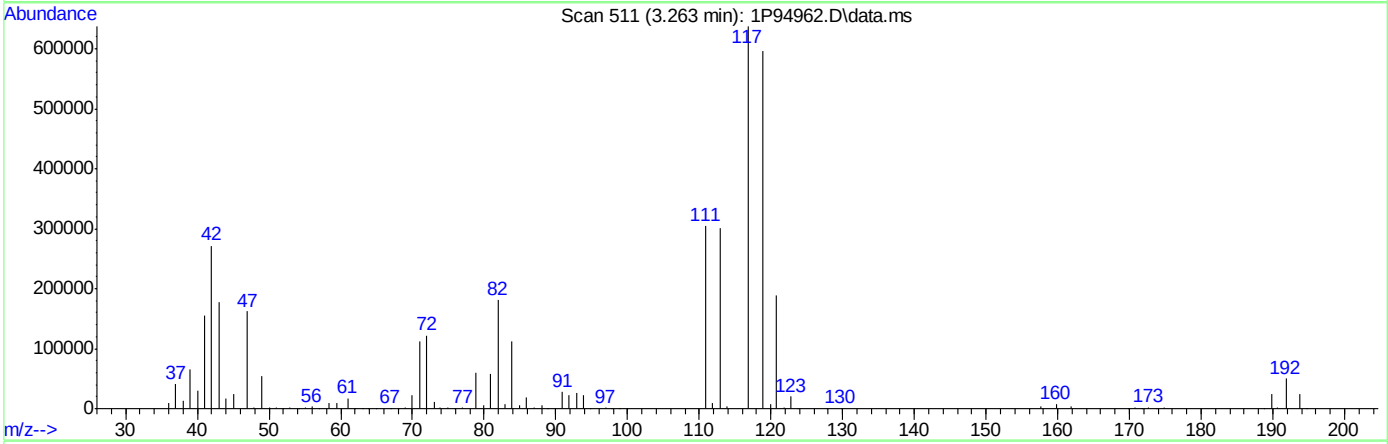
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.60	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94962.D
Acq On : 4 Nov 2022 1:37 pm
Operator : courtnef
Sample : IC3621-7
Misc : MS52500,V1P3621,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 04 13:49:49 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94962.D\data.ms

(40) Carbon Tetrachloride ( )

3.263min (-0.004) 129.37ug/L

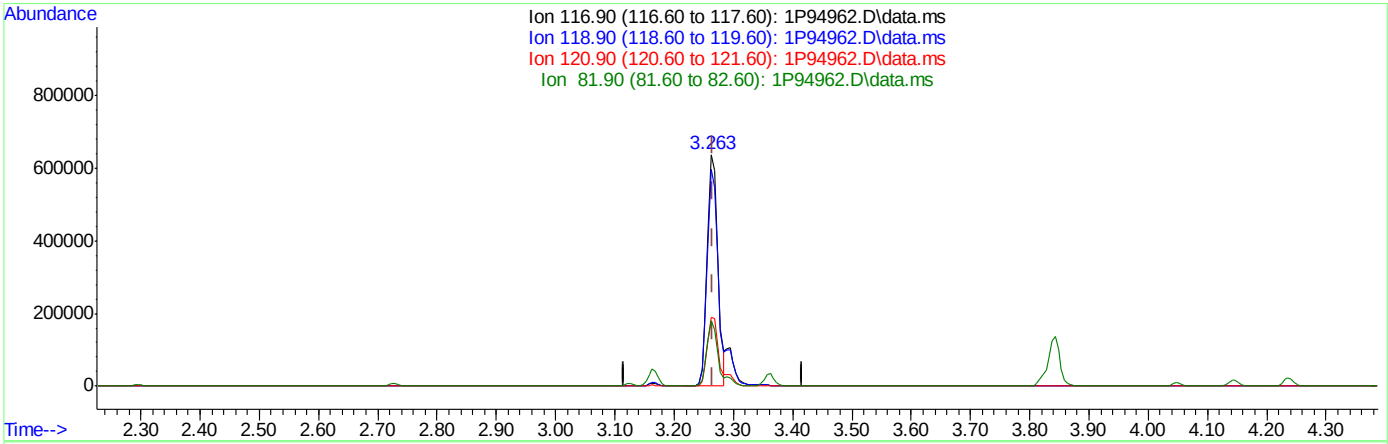
response 897995

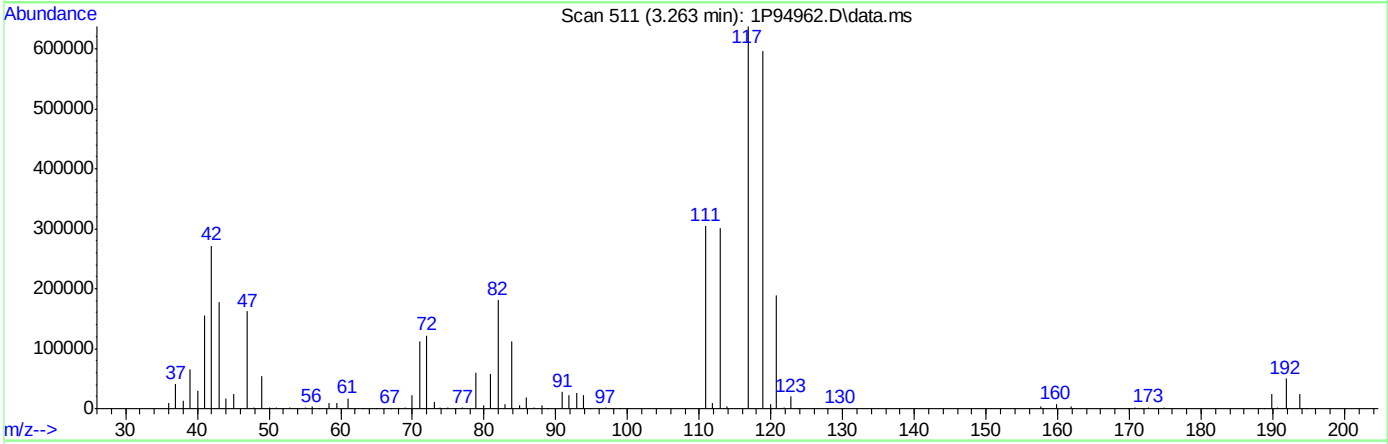
Ion	Exp%	Act%
116.90	100	100
118.90	98.90	93.41
120.90	30.30	29.75
81.90	27.70	28.28

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94962.D
Acq On : 4 Nov 2022 1:37 pm
Operator : courtnef
Sample : IC3621-7
Misc : MS52500,V1P3621,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 04 13:49:49 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94962.D\data.ms

(40) Carbon Tetrachloride ( )

3.263min (-0.004) 111.67ug/L m

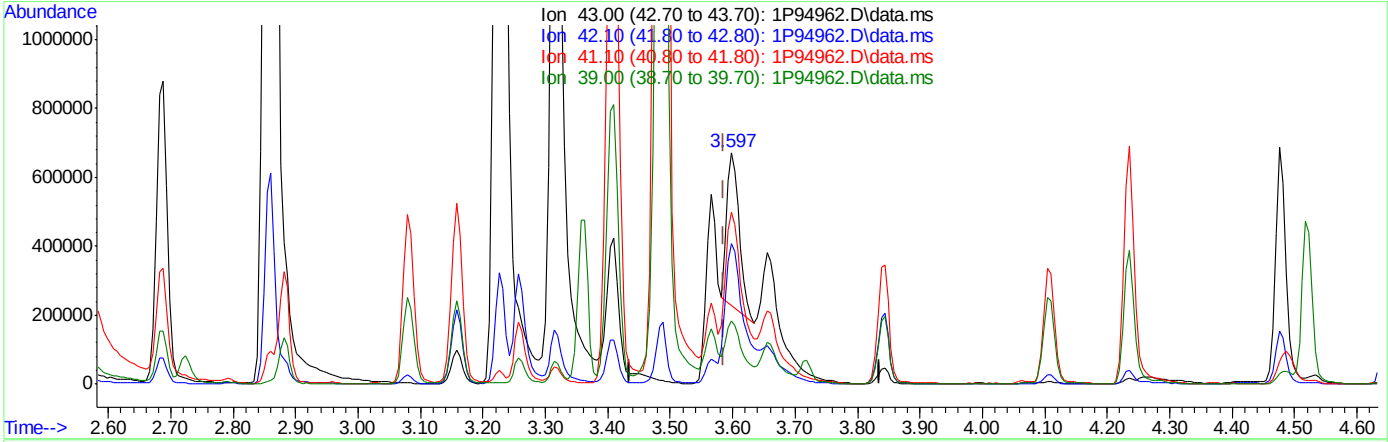
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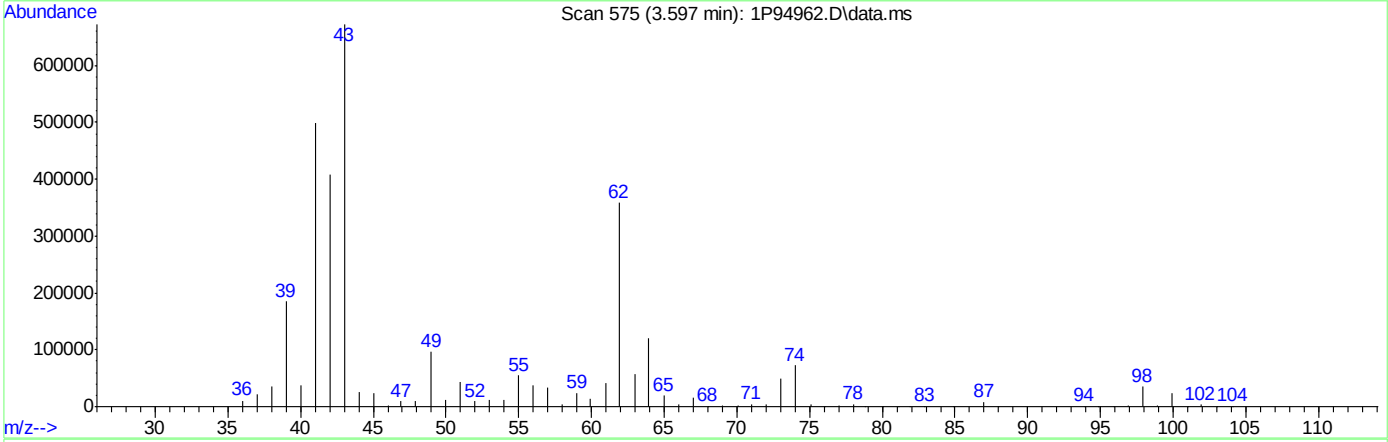
Ion	Exp%	Act%
116.90	100	100
118.90	98.90	93.41
120.90	30.30	29.75
81.90	27.70	28.39

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94962.D
Acq On : 4 Nov 2022 1:37 pm
Operator : courtnef
Sample : IC3621-7
Misc : MS52500,V1P3621,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 04 13:49:49 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94962.D\data.ms

(50) Isobutyl alcohol

3.597min (+0.012) 743.88ug/L

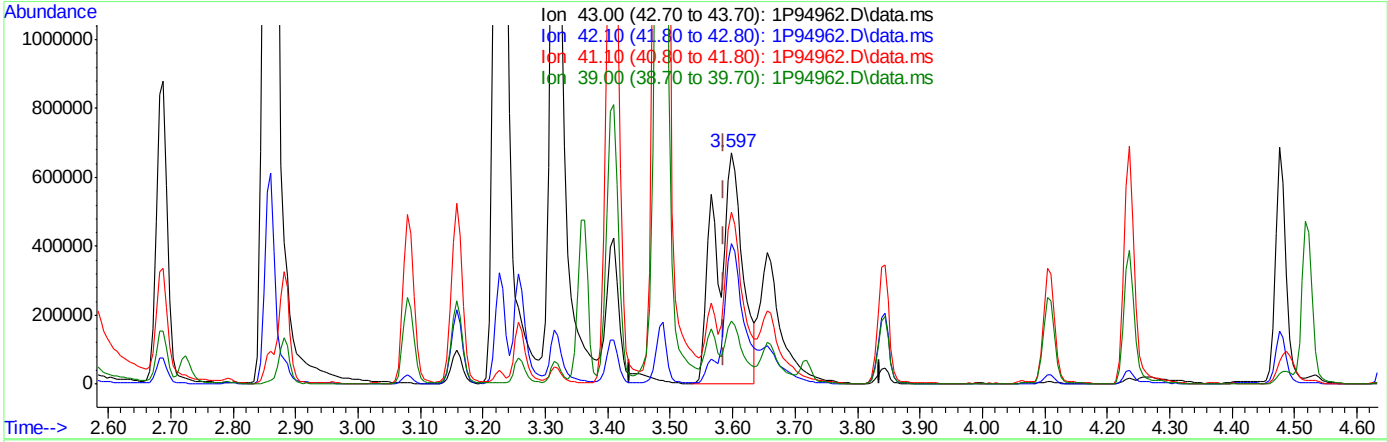
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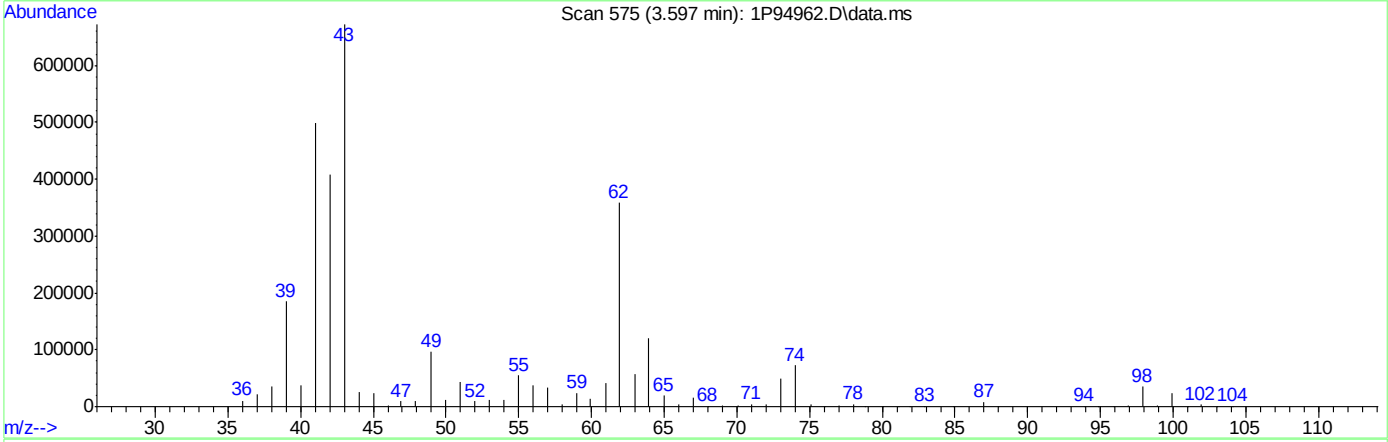
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	61.51
41.10	71.00	73.76
39.00	28.30	27.03

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94962.D
Acq On : 4 Nov 2022 1:37 pm
Operator : courtnef
Sample : IC3621-7
Misc : MS52500,V1P3621,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 04 13:49:49 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94962.D\data.ms

(50) Isobutyl alcohol

3.597min (+0.012) 2415.46ug/L m

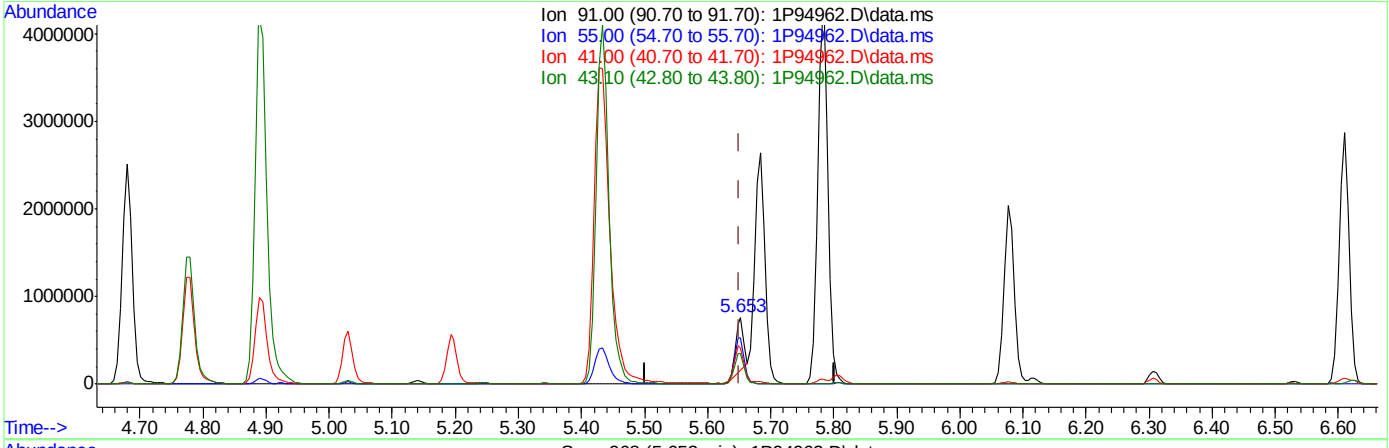
response 1995230

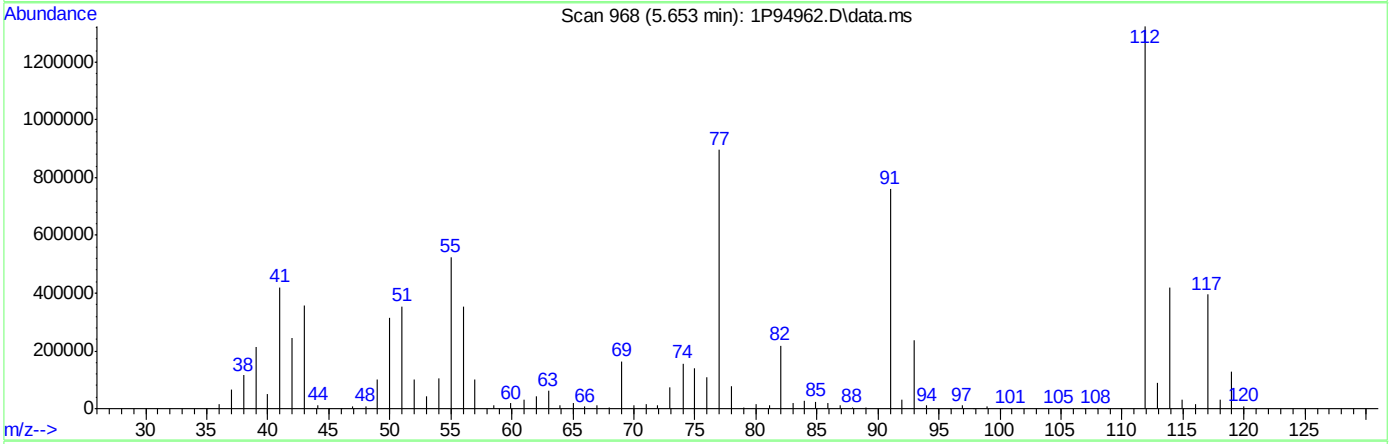
Ion	Exp%	Act%
43.00	100	100
42.10	58.90	60.86
41.10	71.00	74.06
39.00	28.30	27.49

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94962.D
Acq On : 4 Nov 2022 1:37 pm
Operator : courtnef
Sample : IC3621-7
Misc : MS52500,V1P3621,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 04 13:49:49 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94962.D\data.ms

(76) 1-Chlorohexane

5.653min (+0.001) 76.71ug/L

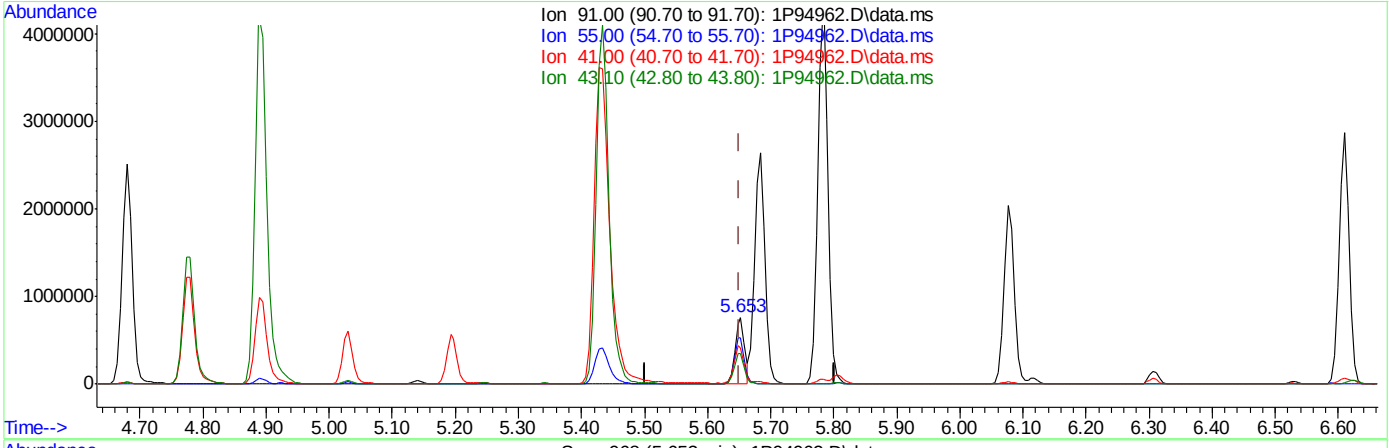
response 590544

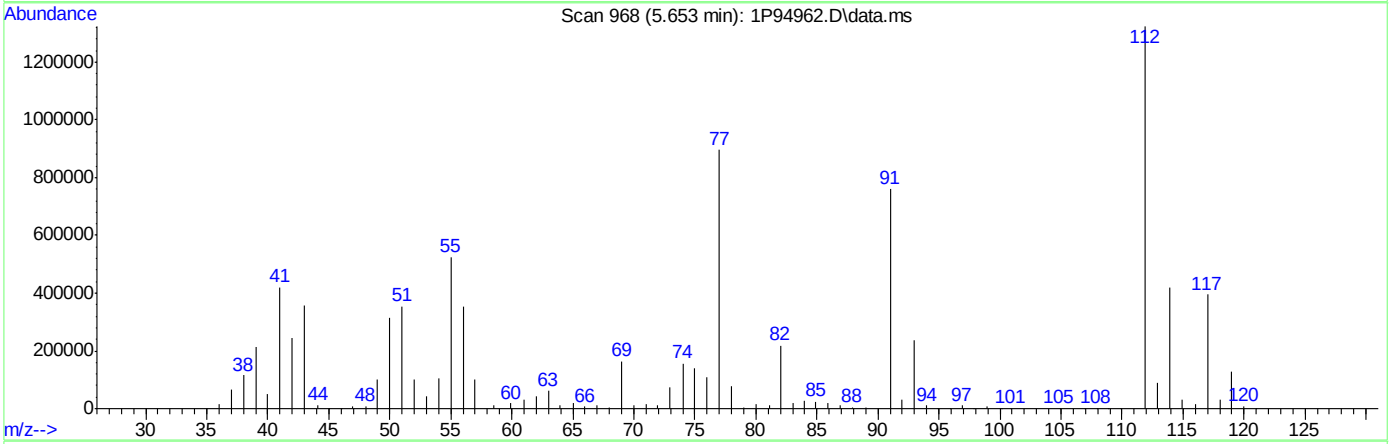
Ion	Exp%	Act%
91.00	100	100
55.00	65.90	67.07
41.00	54.50	52.71
43.10	42.60	45.74

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94962.D
Acq On : 4 Nov 2022 1:37 pm
Operator : courtnef
Sample : IC3621-7
Misc : MS52500,V1P3621,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 04 13:49:49 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:10:27 2022
Response via : Initial Calibration





TIC: 1P94962.D\data.ms

(76) 1-Chlorohexane

5.653min (+0.001) 108.47ug/L m

response 835059

Ion	Exp%	Act%
91.00	100	100
55.00	65.90	69.06
41.00	54.50	55.30
43.10	42.60	46.90

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 11/07/22 17:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94968.D
Acq On : 4 Nov 2022 3:34 pm
Operator : courtnef
Sample : ICV3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 04 16:27:59 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.714	96	1527244	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.638	117	986941	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.328	152	426537	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.259	113	321770	50.53	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.06%			
49) 1,2-Dichloroethane-d4	3.546	65	476886	51.96	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.92%			
63) Toluene-d8	4.645	98	1445548	49.92	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.84%			
86) 4-Bromofluorobenzene	6.491	174	326041	50.04	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.08%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.109	85	186118	34.45	ug/L	100
3) Chloromethane	1.235	50	282508	36.96	ug/L	97
4) 1,3-butadiene	1.303	39	273723	37.49	ug/L	93
5) Vinyl Chloride	1.292	62	246881	36.58	ug/L	99
6) Bromomethane	1.491	94	34667	45.83	ug/L	98
7) Chloroethane	1.569	64	72772	35.50	ug/L	98
9) Ethyl Ether	1.867	59	215931	37.95	ug/L	98
10) Ethanol	1.967	45	138324	730.54	ug/L	90
11) 1,2-Dichlorotrifluoroe...	1.962	67	253541	34.66	ug/L	96
12) 1,1-Dichloroethene	1.967	61	344799	39.45	ug/L	96
13) Freon 113	1.998	101	183557	36.61	ug/L	98
14) Carbon Disulfide	1.982	76	586353	34.48	ug/L	99
16) Acrolein	2.145	56	441580	228.78	ug/L	99
17) Allyl chloride	2.234	41	332816	46.88	ug/L	97
18) Methylene Chloride	2.291	49	301654	34.17	ug/L	97
19) Acetone	2.307	43	814097	213.23	ug/L	98
20) Methyl acetate	2.385	43	1732958	191.92	ug/L	99
21) trans-1,2-Dichloroethene	2.390	61	320716	38.29	ug/L	97
22) Hexane	2.458	56	175140	37.96	ug/L	97
23) Methyl Tert Butyl Ether	2.464	73	766193	38.76	ug/L	86
24) Tert Butyl Alcohol	2.516	59	805057	403.23	ug/L	98
26) Di-isopropyl ether	2.678	45	774389	37.85	ug/L	99
27) Chloroprene	2.720	53	1214057	39.61	ug/L	98
28) 1,1-Dichloroethane	2.720	63	428932	39.75	ug/L	98
29) Acrylonitrile	2.720	52	789685	195.28	ug/L	99
30) ETBE	2.877	59	743077	37.26	ug/L	99
31) Vinyl acetate	2.851	43	3550814	229.86	ug/L	100
32) cis-1,2-Dichloroethene	3.013	96	234638	39.47	ug/L	100
33) 2,2-Dichloropropane	3.076	77	331971	37.12	ug/L	98
34) Bromochloromethane	3.117	128	94305	39.28	ug/L	95
35) Cyclohexane	3.154	56	393583	40.38	ug/L	98
36) Chloroform	3.159	83	407307	38.33	ug/L	100
37) Ethyl acetate	3.222	43	2299229	210.78	ug/L	99
38) Tetrahydrofuran	3.253	42	163398	39.01	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94968.D
Acq On : 4 Nov 2022 3:34 pm
Operator : courtnef
Sample : ICV3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 04 16:27:59 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Carbon Tetrachloride	3.259	117	262123m	40.84	ug/L	
41) 1,1,1-Trichloroethane	3.285	97	353702	39.95	ug/L	98
42) 2-Butanone	3.311	43	1266918	198.07	ug/L	99
43) 1,1-Dichloropropene	3.358	75	306477	37.63	ug/L	98
44) tert-Butyl formate	3.400	59	715997	153.76	ug/L	99
45) Propionitrile	3.457	54	691101	392.55	ug/L	95
46) Methacrylonitrile	3.478	41	2508663	396.89	ug/L	99
47) Benzene	3.489	78	977396	37.50	ug/L	94
48) TAME	3.562	73	754578	40.67	ug/L	100
50) Isobutyl alcohol	3.593	43	863565m	803.15	ug/L	
51) 1,2-Dichloroethane	3.583	62	328202	37.70	ug/L	98
52) Tert Amyl Alcohol	3.651	59	642190	395.57	ug/L	99
53) Trichloroethene	3.818	95	235462	38.31	ug/L	97
54) Methylcyclohexane	3.834	83	357495	40.84	ug/L	96
55) Dibromomethane	4.043	93	131646	37.83	ug/L	96
56) 1,2-Dichloropropane	4.101	63	223359	36.48	ug/L	98
57) Bromodichloromethane	4.137	83	263394	40.35	ug/L	98
58) Methyl methacrylate	4.231	41	305885	43.29	ug/L	97
61) cis-1,3-Dichloropropene	4.514	75	346798	40.26	ug/L	97
64) Toluene	4.676	91	977096	37.51	ug/L	100
65) 2-Nitropropane	4.770	41	573473	208.88	ug/L	99
66) 4-Methyl-2-pentanone	4.885	43	2097513	192.50	ug/L	99
67) trans-1,3-Dichloropropene	4.911	75	327447	43.20	ug/L	98
68) Tetrachloroethene	4.932	166	198614	39.01	ug/L	99
69) Ethyl methacrylate	5.026	69	322761	37.70	ug/L	94
70) 1,1,2-Trichloroethane	5.016	83	168259	37.65	ug/L	97
71) Dibromochloromethane	5.136	129	167095	39.27	ug/L	99
72) 1,3-Dichloropropane	5.189	76	350786	35.33	ug/L	96
73) 1,2-Dibromoethane	5.293	107	202068	40.05	ug/L	98
75) 2-hexanone	5.429	43	2475689	208.35	ug/L	87
76) 1-Chlorohexane	5.649	91	312922m	39.36	ug/L	
77) Ethylbenzene	5.680	91	1066307	39.08	ug/L	99
78) Chlorobenzene	5.649	112	550807	37.50	ug/L	94
79) 1,1,1,2-Tetrachloroethane	5.696	131	177266	40.29	ug/L	98
80) m,p-Xylene	5.780	91	1678426	79.52	ug/L	100
81) o-Xylene	6.072	91	823281	39.50	ug/L	98
82) Styrene	6.104	104	608291	41.60	ug/L	98
83) Bromoform	6.114	173	90966	40.84	ug/L	96
84) Isopropylbenzene	6.303	105	945795	41.02	ug/L	98
87) cis-1,4-Dichloro-2-butene	6.522	53	99687	40.15	ug/L	97
88) n-Propylbenzene	6.606	91	1145112	39.18	ug/L	99
89) Bromobenzene	6.569	156	188658	35.83	ug/L	95
90) 1,1,2,2-Tetrachloroethane	6.627	83	306460	37.32	ug/L	98
91) 1,3,5-Trimethylbenzene	6.752	105	766173	39.38	ug/L	98
92) 2-Chlorotoluene	6.711	91	664226	38.22	ug/L	99
93) trans-1,4-Dichloro-2-B...	6.758	53	123784	41.99	ug/L	99
94) 1,2,3-Trichloropropane	6.721	110	98897	34.26	ug/L	93
95) Cyclohexanone	6.747	55	114590	205.82	ug/L	96
96) 4-Chlorotoluene	6.831	91	701656	38.56	ug/L	100
97) tert-Butylbenzene	6.993	91	437641	39.73	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94968.D
Acq On : 4 Nov 2022 3:34 pm
Operator : courtnef
Sample : ICV3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 04 16:27:59 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

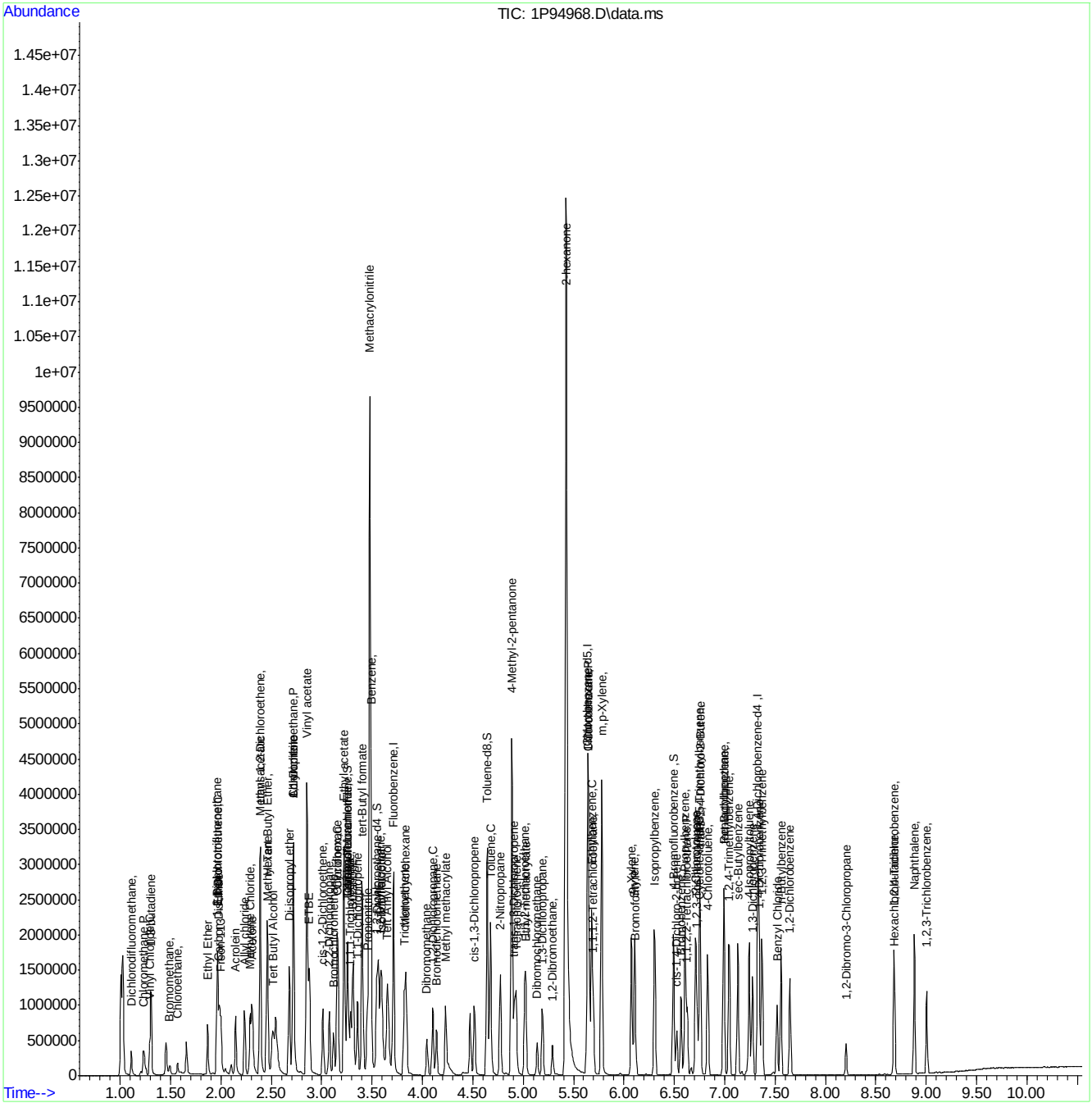
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
99) 1,2,4-Trimethylbenzene	7.045	105	748652	39.55	ug/L		97
100) Pentachloroethane	6.993	167	99551	42.40	ug/L	#	88
101) sec-Butylbenzene	7.129	105	890395	41.86	ug/L		99
102) 4-Isopropyltoluene	7.244	119	764870	43.02	ug/L		98
103) 1,3-Dichlorobenzene	7.275	146	373183	38.67	ug/L		99
104) 1,2,3-Trimethylbenzene	7.370	105	745605	39.75	ug/L		99
105) 1,4-Dichlorobenzene	7.343	146	378271	37.84	ug/L		98
106) n-Butylbenzene	7.558	92	360852	39.00	ug/L		98
107) Benzyl Chloride	7.521	126	92328	37.93	ug/L		97
108) 1,2-Dichlorobenzene	7.647	146	345897	38.21	ug/L		95
109) 1,2-Dibromo-3-Chloropr...	8.206	75	73863	40.35	ug/L		98
110) Hexachlorobutadiene	8.688	225	72217	43.31	ug/L		96
111) 1,2,4-Trichlorobenzene	8.682	180	204406	41.47	ug/L		99
112) Naphthalene	8.881	128	923292	42.52	ug/L		99
113) 1,2,3-Trichlorobenzene	9.007	180	193125	42.37	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94968.D
Acq On : 4 Nov 2022 3:34 pm
Operator : courtnef
Sample : ICV3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 04 16:27:59 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



Manual Integration Approval Summary

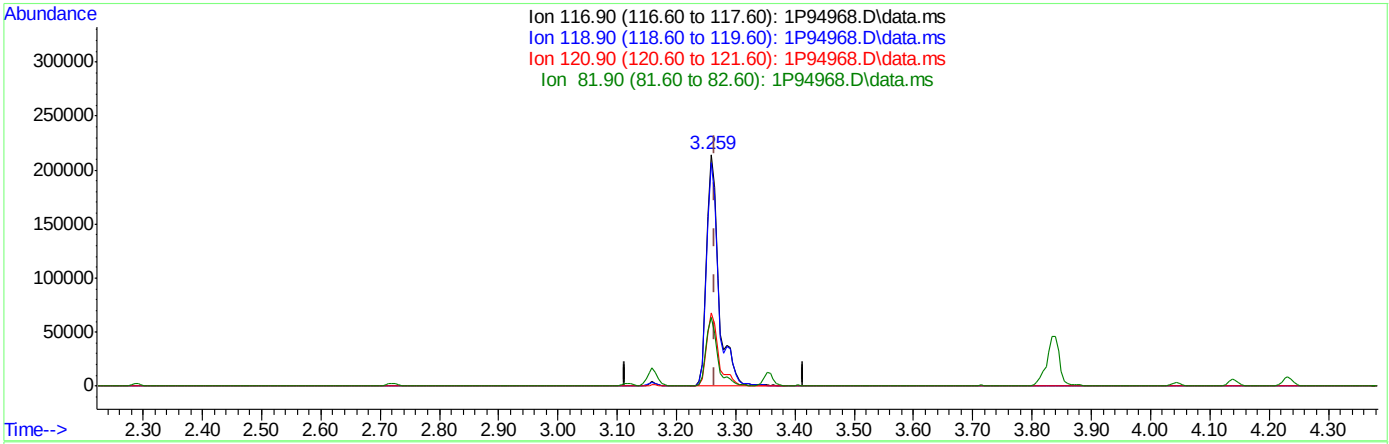
Sample Number: V1P3621-ICV3621 **Method:** SW846 8260D
Lab FileID: 1P94968.D **Analyst approved:** 11/04/22 16:32 Courtney Failla
Injection Time: 11/04/22 15:34 **Supervisor approved:** 11/07/22 17:40 Shanica O'Connor

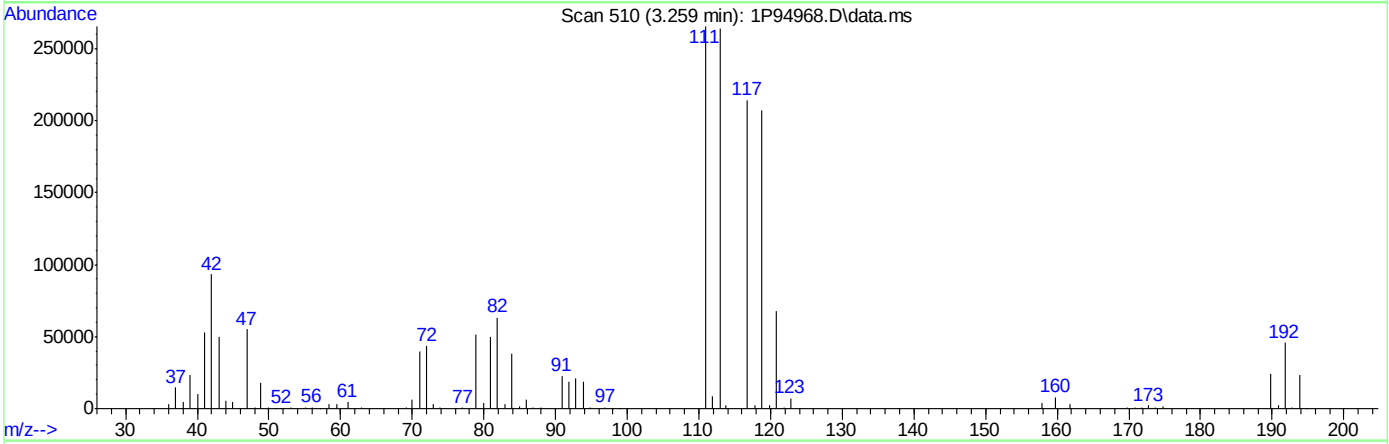
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94968.D
Acq On : 4 Nov 2022 3:34 pm
Operator : courtnef
Sample : ICV3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 04 16:24:56 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P94968.D\data.ms

(40) Carbon Tetrachloride ( )

3.259min (-0.006) 47.23ug/L

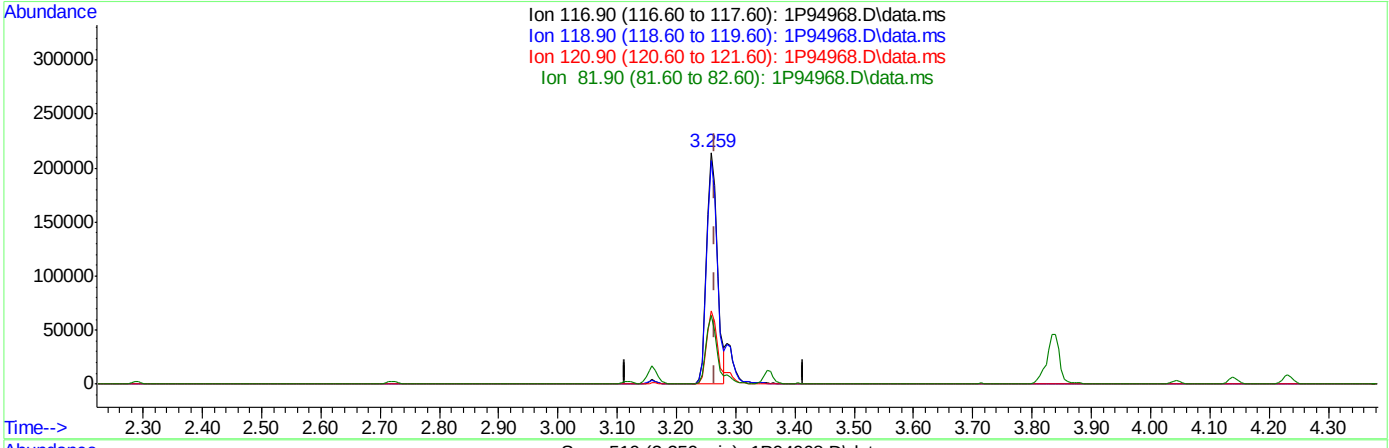
response 303168

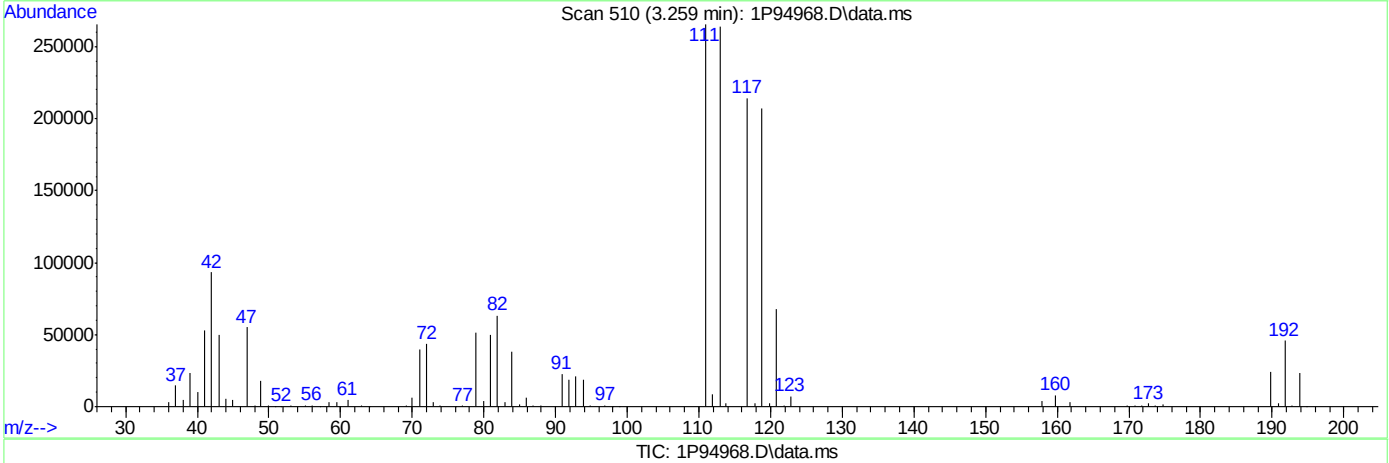
Ion	Exp%	Act%
116.90	100	100
118.90	97.80	96.69
120.90	31.00	31.53
81.90	30.20	29.35

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94968.D
Acq On : 4 Nov 2022 3:34 pm
Operator : courtnef
Sample : ICV3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 04 16:24:56 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P94968.D\data.ms

(40) Carbon Tetrachloride ( )

3.259min (-0.006) 40.84ug/L m

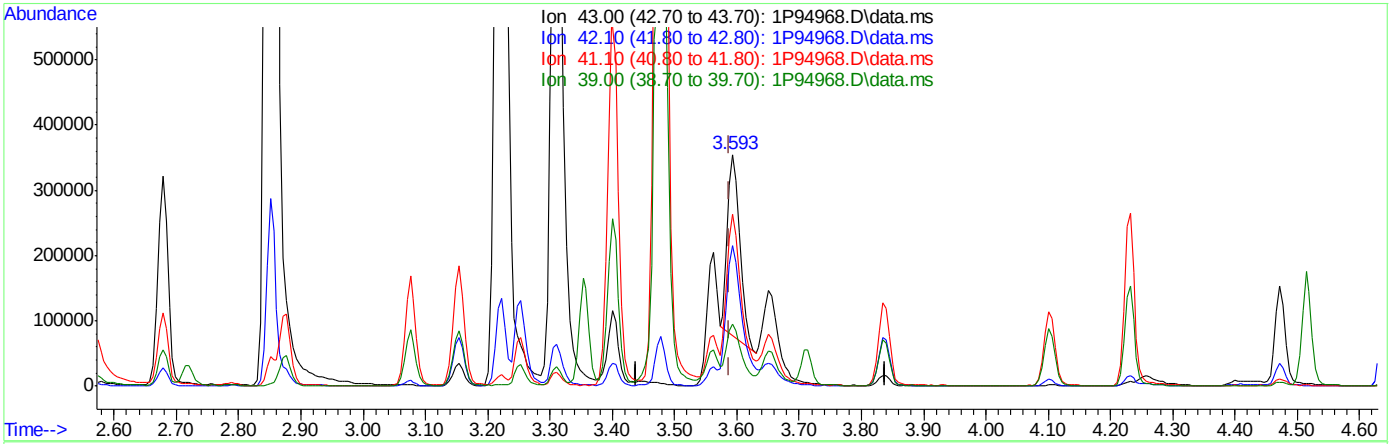
response 262123

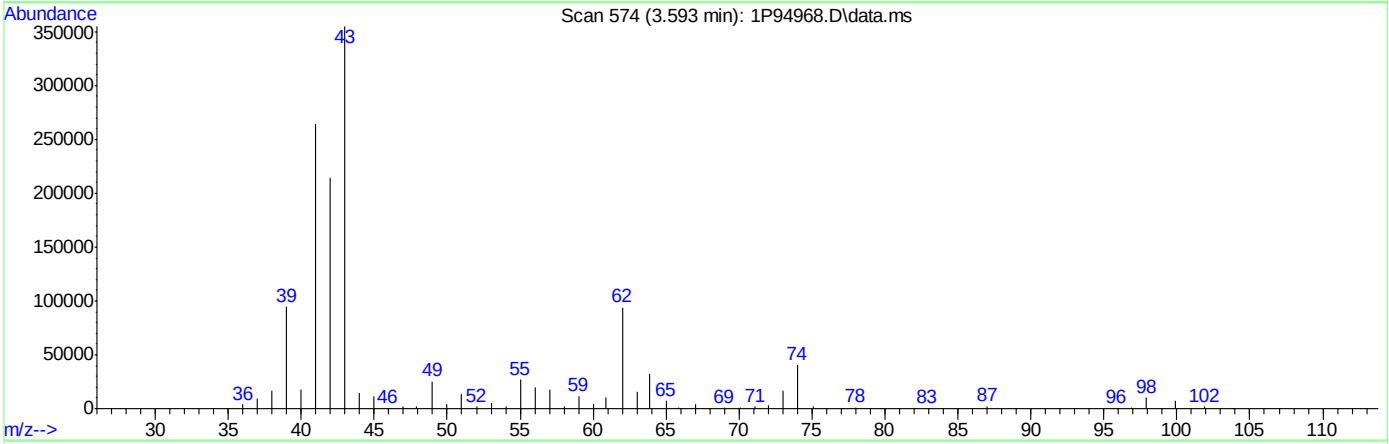
Ion	Exp%	Act%
116.90	100	100
118.90	97.80	96.69
120.90	31.00	31.53
81.90	30.20	29.50

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94968.D
Acq On : 4 Nov 2022 3:34 pm
Operator : courtnef
Sample : ICV3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 04 16:24:56 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P94968.D\data.ms

(50) Isobutyl alcohol

3.593min (+0.005) 342.67ug/L

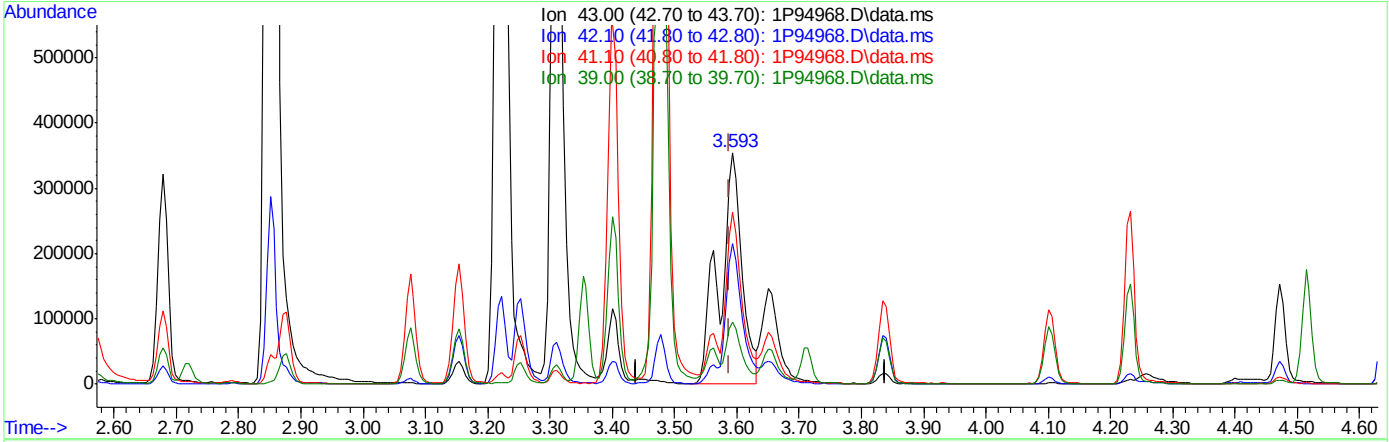
response 368450

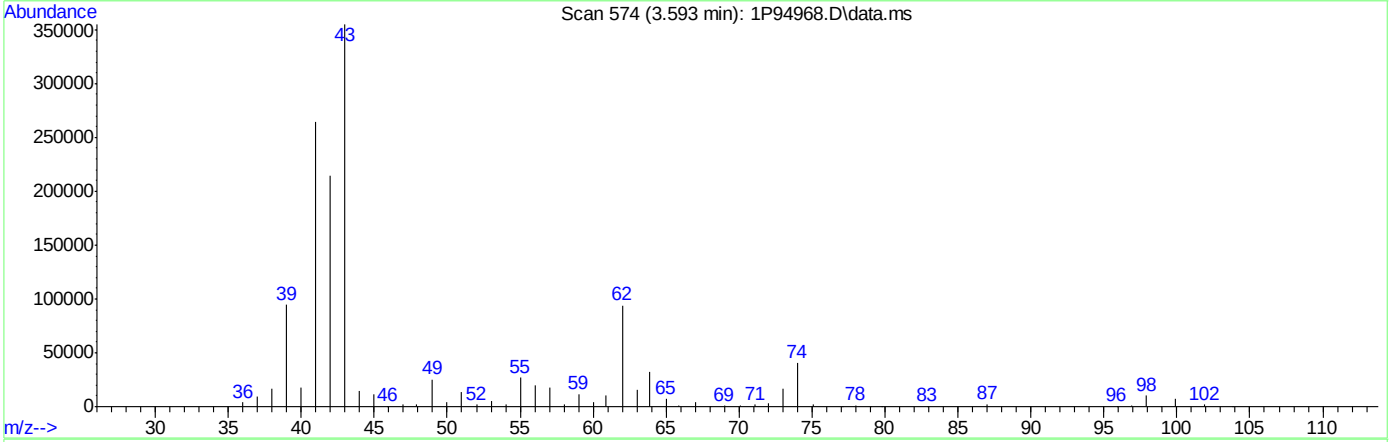
Ion	Exp%	Act%
43.00	100	100
42.10	59.60	62.33
41.10	71.40	74.58
39.00	26.20	25.89

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94968.D
Acq On : 4 Nov 2022 3:34 pm
Operator : courtnef
Sample : ICV3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 04 16:24:56 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P94968.D\data.ms

(50) Isobutyl alcohol

3.593min (+0.005) 803.15ug/L m

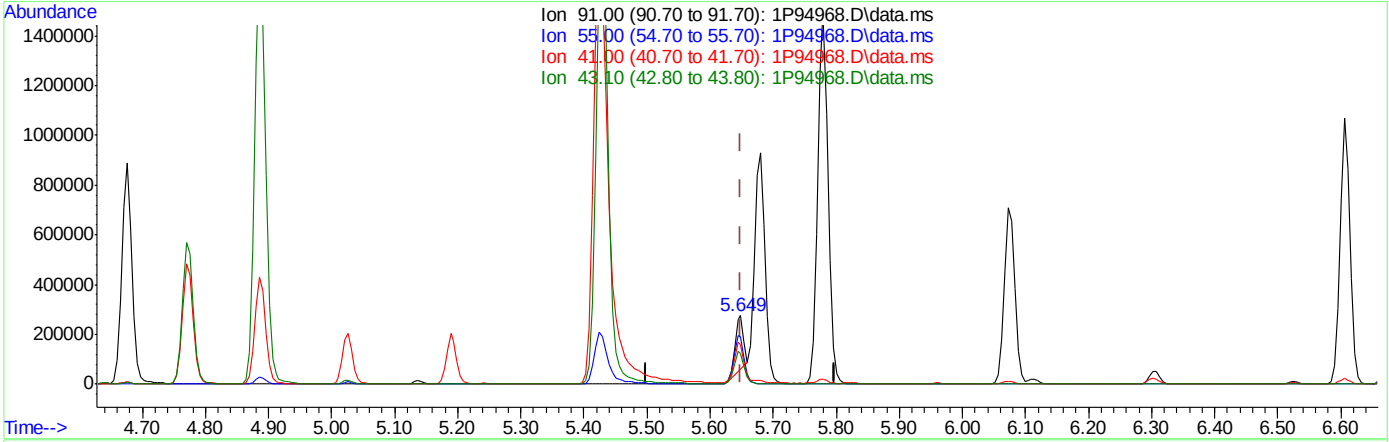
response 863565

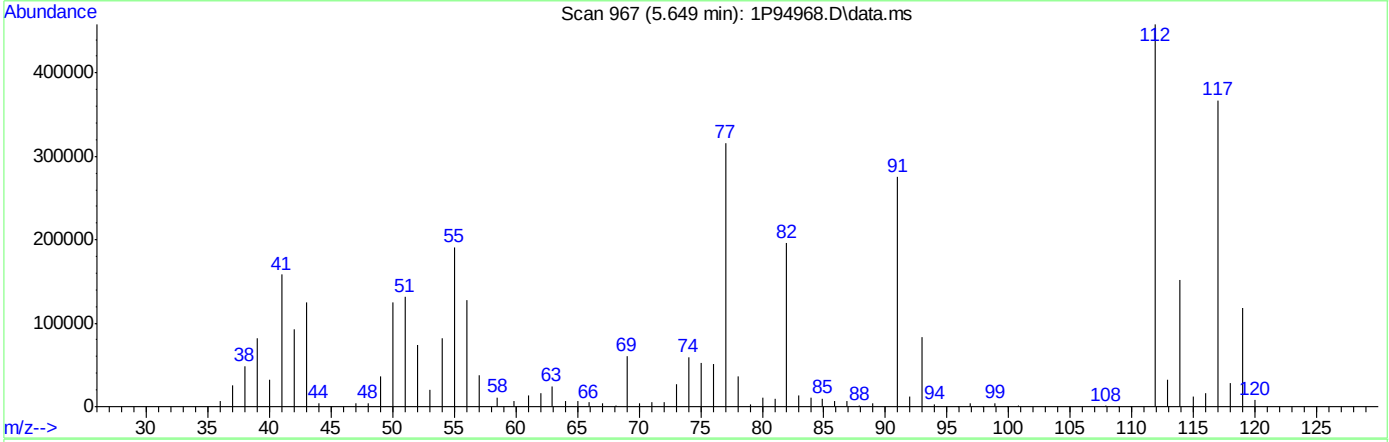
Ion	Exp%	Act%
43.00	100	100
42.10	59.60	60.54
41.10	71.40	74.41
39.00	26.20	26.58

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94968.D
Acq On : 4 Nov 2022 3:34 pm
Operator : courtnef
Sample : ICV3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 04 16:24:56 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P94968.D\data.ms

(76) 1-Chlorohexane

5.649min (-0.000) 27.72ug/L

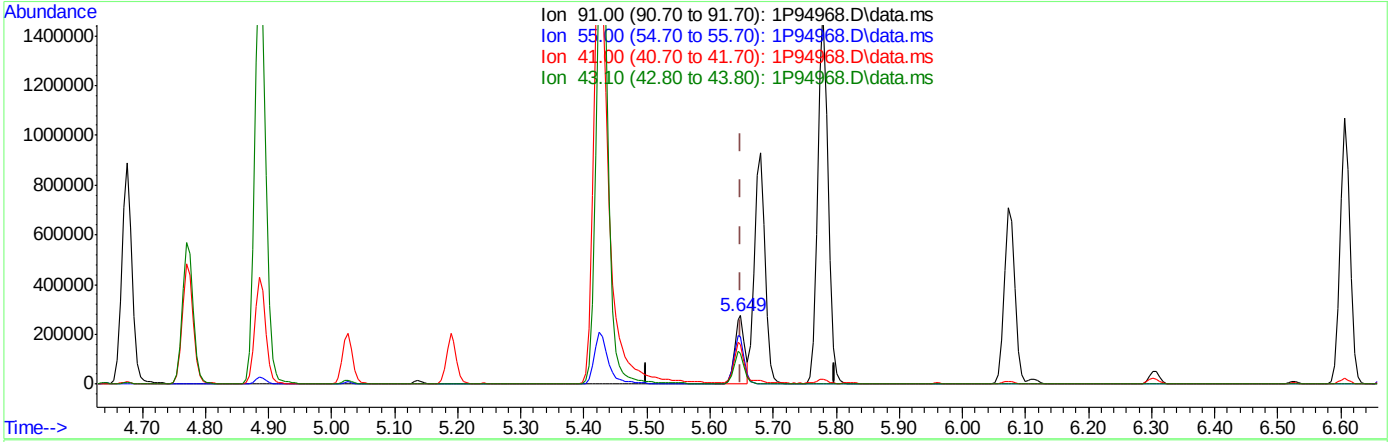
response 220125

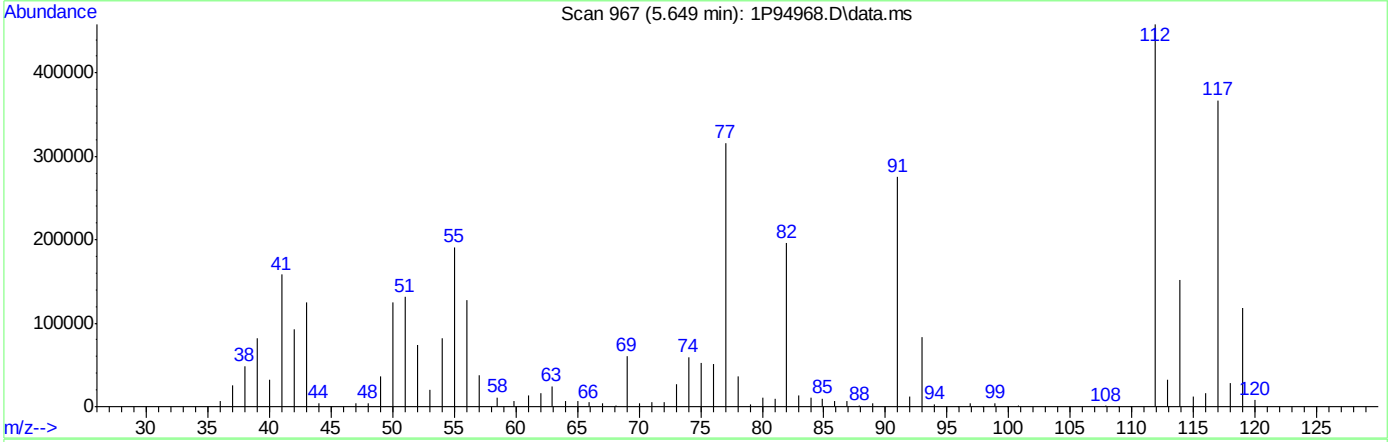
Ion	Exp%	Act%
91.00	100	100
55.00	73.20	66.78
41.00	62.10	53.48
43.10	50.00	43.49

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94968.D
Acq On : 4 Nov 2022 3:34 pm
Operator : courtnef
Sample : ICV3621-5
Misc : MS52500,V1P3621,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 04 16:24:56 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P94968.D\data.ms

(76) 1-Chlorohexane

5.649min (-0.000) 39.36ug/L m

response 312922

Ion	Exp%	Act%
91.00	100	100
55.00	73.20	69.47
41.00	62.10	57.51
43.10	50.00	45.44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94970.D
Acq On : 4 Nov 2022 4:05 pm
Operator : courtnef
Sample : ICV3621-4
Misc : MS52500,V1P3621,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 04 16:30:01 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

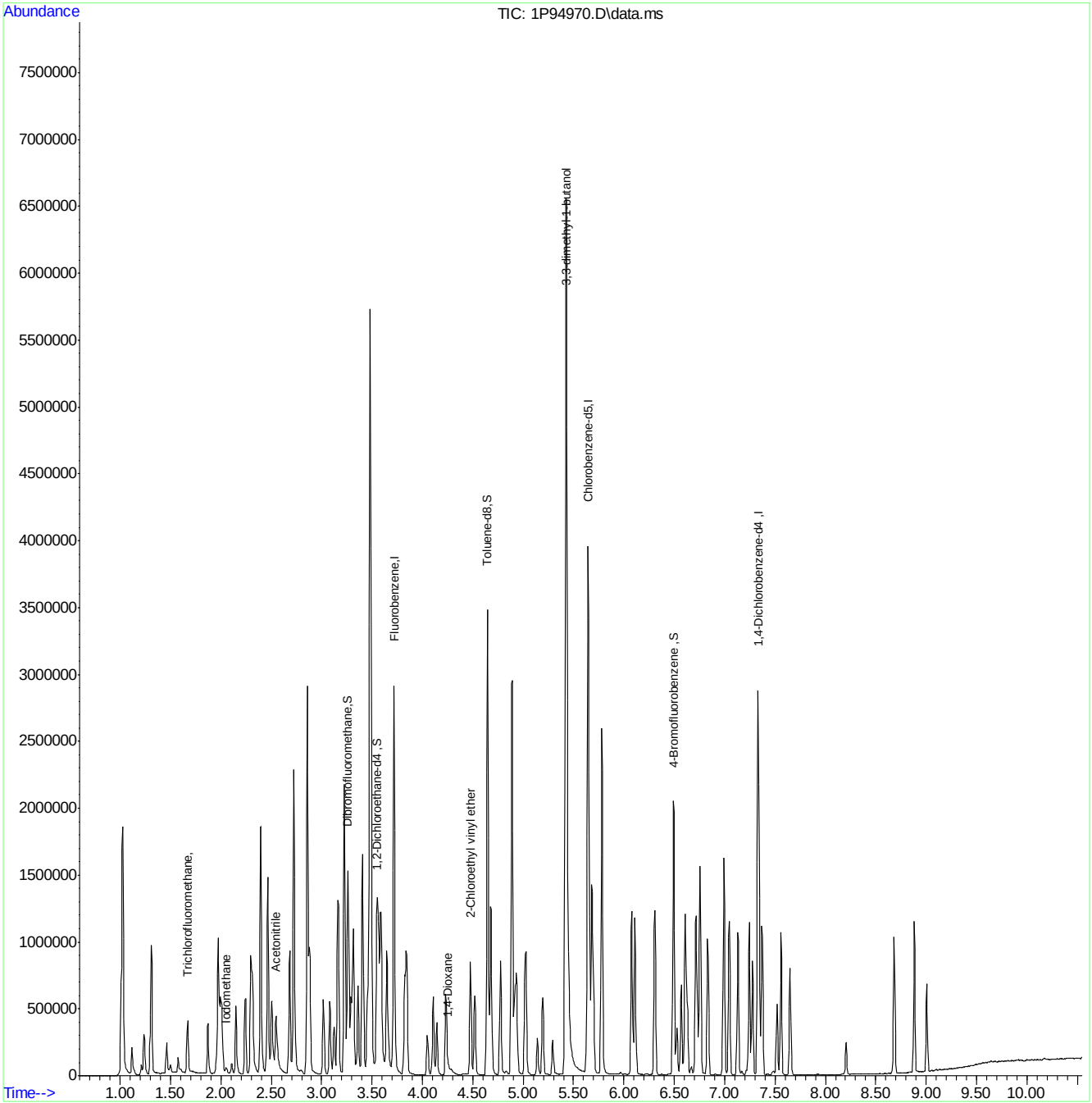
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.719	96	1577317	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.644	117	1028815	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.333	152	442798	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.259	113	342095	52.01	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.02%			
49) 1,2-Dichloroethane-d4	3.546	65	497168	52.45	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 104.90%			
63) Toluene-d8	4.645	98	1520084	50.35	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.70%			
86) 4-Bromofluorobenzene	6.496	174	337495	49.90	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.80%			
Target Compounds						Qvalue
8) Trichlorofluoromethane	1.669	101	194926	24.96	ug/L	100
15) Iodomethane	2.051	142	26112	31.37	ug/L	94
25) Acetonitrile	2.547	41	307939	222.71	ug/L	100
59) 1,4-Dioxane	4.252	88	63749	451.99	ug/L	96
60) 2-Chloroethyl vinyl ether	4.477	63	227476	125.15	ug/L	96
74) 3,3-dimethyl-1-butanol	5.424	57	2198917	1253.34	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 1P94970.D
Acq On : 4 Nov 2022 4:05 pm
Operator : courtnef
Sample : ICV3621-4
Misc : MS52500,V1P3621,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 04 16:30:01 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/14/22 01:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:18:37 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.714	96	1011468	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.639	117	658699	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.328	152	300006	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.259	113	227293	53.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.78%			
49) 1,2-Dichloroethane-d4	3.547	65	315879	51.97	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.94%			
63) Toluene-d8	4.645	98	957239	49.53	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.06%			
86) 4-Bromofluorobenzene	6.491	174	237362	51.80	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.60%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.120	85	194395	54.33	ug/L	99
3) Chloromethane	1.240	50	192467	37.99	ug/L	97
4) 1,3-butadiene	1.314	39	151503	31.33	ug/L	98
5) Vinyl Chloride	1.298	62	171303	38.33	ug/L	100
6) Bromomethane	1.502	94	63405	199.94	ug/L	99
7) Chloroethane	1.575	64	64335	49.18	ug/L	99
8) Trichlorofluoromethane	1.669	101	205491	45.50	ug/L	100
9) Ethyl Ether	1.873	59	155582	41.98	ug/L	96
10) Ethanol	1.962	45	85137m	666.84	ug/L	
11) 1,2-Dichlorotrifluoroe...	1.973	67	207090	42.75	ug/L	99
12) 1,1-Dichloroethene	1.973	61	261129	45.11	ug/L	99
13) Freon 113	2.009	101	167612	50.48	ug/L	96
14) Carbon Disulfide	1.994	76	450620	39.85	ug/L	95
15) Iodomethane	2.056	142	135842	254.45	ug/L	97
16) Acrolein	2.150	56	272687	213.32	ug/L	100
17) Allyl chloride	2.239	41	262544	55.84	ug/L	94
18) Methylene Chloride	2.297	49	214076	36.61	ug/L	98
19) Acetone	2.313	43	469402	183.30	ug/L	97
20) Methyl acetate	2.391	43	1164493	194.73	ug/L	97
21) trans-1,2-Dichloroethene	2.396	61	255108	45.99	ug/L	97
22) Hexane	2.464	56	146857	48.07	ug/L	96
23) Methyl Tert Butyl Ether	2.470	73	570163	43.55	ug/L	95
24) Tert Butyl Alcohol	2.506	59	483467	363.96	ug/L	99
25) Acetonitrile	2.548	41	349840	435.10	ug/L	99
26) Di-isopropyl ether	2.684	45	583223	43.04	ug/L	98
27) Chloroprene	2.726	53	774148	38.14	ug/L	99
28) 1,1-Dichloroethane	2.726	63	320360	44.83	ug/L	97
29) Acrylonitrile	2.726	52	500823	187.00	ug/L	99
30) ETBE	2.877	59	570347	43.18	ug/L	99
31) Vinyl acetate	2.857	43	2136463	208.83	ug/L	99
32) cis-1,2-Dichloroethene	3.019	96	179791	45.66	ug/L	98
33) 2,2-Dichloropropane	3.081	77	283437	47.85	ug/L	98
34) Bromochloromethane	3.123	128	70703	44.46	ug/L	95
35) Cyclohexane	3.160	56	297461	46.08	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:18:37 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.165	83	322690	45.85	ug/L		99
37) Ethyl acetate	3.223	43	1470488	203.42	ug/L		99
38) Tetrahydrofuran	3.254	42	111957	40.43	ug/L		99
40) Carbon Tetrachloride	3.265	117	223745m	52.64	ug/L		
41) 1,1,1-Trichloroethane	3.291	97	275311	46.95	ug/L		97
42) 2-Butanone	3.312	43	837982	197.80	ug/L		100
43) 1,1-Dichloropropene	3.359	75	248610	46.09	ug/L		98
44) tert-Butyl formate	3.406	59	802790	260.31	ug/L		95
45) Propionitrile	3.458	54	463524	397.54	ug/L		97
46) Methacrylonitrile	3.479	41	1648911	393.90	ug/L		98
47) Benzene	3.489	78	717977	41.60	ug/L		89
48) TAME	3.563	73	532264	43.31	ug/L		97
50) Isobutyl alcohol	3.589	43	541477m	760.39	ug/L		
51) 1,2-Dichloroethane	3.584	62	245694	42.61	ug/L		99
52) Tert Amyl Alcohol	3.652	59	403441	375.22	ug/L		99
53) Trichloroethene	3.824	95	179106	44.00	ug/L		95
54) Methylcyclohexane	3.840	83	275969	47.61	ug/L		99
55) Dibromomethane	4.044	93	102325	44.40	ug/L		96
56) 1,2-Dichloropropane	4.107	63	180492	44.51	ug/L		96
57) Bromodichloromethane	4.143	83	215844	49.93	ug/L		97
58) Methyl methacrylate	4.232	41	194818	41.64	ug/L		94
59) 1,4-Dioxane	4.258	88	72993	834.31	ug/L		96
60) 2-Chloroethyl vinyl ether	4.473	63	693013	506.51	ug/L		99
61) cis-1,3-Dichloropropene	4.520	75	284266	49.83	ug/L		93
64) Toluene	4.677	91	749599	43.12	ug/L		100
65) 2-Nitropropane	4.771	41	372778	203.89	ug/L		96
66) 4-Methyl-2-pentanone	4.886	43	1444561	198.78	ug/L		99
67) trans-1,3-Dichloropropene	4.917	75	244345	48.30	ug/L		85
68) Tetrachloroethene	4.933	166	165401	48.68	ug/L		99
69) Ethyl methacrylate	5.027	69	254306	44.12	ug/L		91
70) 1,1,2-Trichloroethane	5.017	83	129654	43.47	ug/L		98
71) Dibromochloromethane	5.137	129	147775	50.62	ug/L		99
72) 1,3-Dichloropropane	5.189	76	288885	43.59	ug/L		96
73) 1,2-Dibromoethane	5.289	107	150901	44.81	ug/L		98
74) 3,3-dimethyl-1-butanol	5.425	57	2235495	1977.89	ug/L		98
75) 2-hexanone	5.430	43	1477253	185.38	ug/L		98
76) 1-Chlorohexane	5.644	91	227073m	42.77	ug/L		
77) Ethylbenzene	5.676	91	784704	43.09	ug/L		99
78) Chlorobenzene	5.649	112	407463	41.57	ug/L		99
79) 1,1,1,2-Tetrachloroethane	5.691	131	147764	50.32	ug/L		98
80) m,p-Xylene	5.780	91	1211194	85.98	ug/L		97
81) o-Xylene	6.073	91	588293	42.29	ug/L		99
82) Styrene	6.104	104	451359	46.25	ug/L		99
83) Bromoform	6.115	173	90617	57.17	ug/L		96
84) Isopropylbenzene	6.303	105	682770	44.37	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.523	53	83818	48.00	ug/L	#	85
88) n-Propylbenzene	6.607	91	832484	40.50	ug/L		98
89) Bromobenzene	6.565	156	158911	42.91	ug/L		97
90) 1,1,2,2-Tetrachloroethane	6.627	83	231221	40.03	ug/L		98
91) 1,3,5-Trimethylbenzene	6.753	105	559807	40.91	ug/L		99

SGS FC1200

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:18:37 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

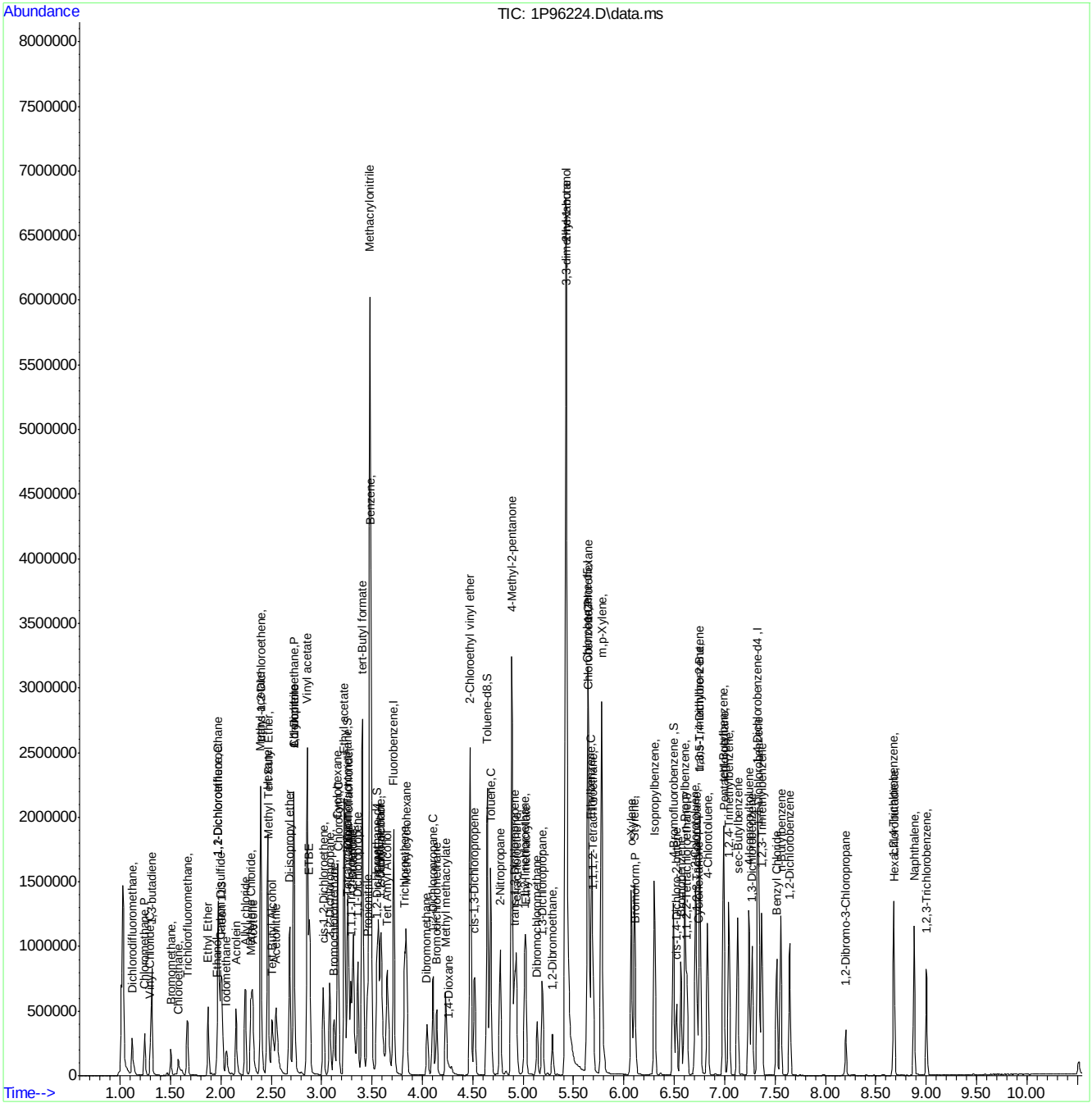
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 2-Chlorotoluene	6.706	91	487761	39.91	ug/L		99
93) trans-1,4-Dichloro-2-B...	6.753	53	90901	43.84	ug/L		91
94) 1,2,3-Trichloropropane	6.722	110	77584	38.21	ug/L		97
95) Cyclohexanone	6.743	55	69414	176.73	ug/L		96
96) 4-Chlorotoluene	6.831	91	512679	40.05	ug/L		96
97) tert-Butylbenzene	6.988	91	313256	40.43	ug/L		100
99) 1,2,4-Trimethylbenzene	7.041	105	524589	39.40	ug/L		97
100) Pentachloroethane	6.994	167	85675	50.90	ug/L	#	55
101) sec-Butylbenzene	7.130	105	615647	41.15	ug/L		98
102) 4-Isopropyltoluene	7.239	119	526484	42.10	ug/L		99
103) 1,3-Dichlorobenzene	7.271	146	291913	43.01	ug/L		98
104) 1,2,3-Trimethylbenzene	7.370	105	519290	39.36	ug/L		99
105) 1,4-Dichlorobenzene	7.339	146	295830	42.07	ug/L		99
106) n-Butylbenzene	7.558	92	270114	41.51	ug/L		96
107) Benzyl Chloride	7.517	126	85773	48.15	ug/L		98
108) 1,2-Dichlorobenzene	7.647	146	272106	42.74	ug/L		100
109) 1,2-Dibromo-3-Chloropr...	8.202	75	58304	45.29	ug/L		92
110) Hexachlorobutadiene	8.683	225	65813	56.11	ug/L		97
111) 1,2,4-Trichlorobenzene	8.678	180	153254	44.21	ug/L		98
112) Naphthalene	8.882	128	533046	34.91	ug/L		100
113) 1,2,3-Trichlorobenzene	9.007	180	151987	47.41	ug/L		95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:18:37 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



Manual Integration Approval Summary

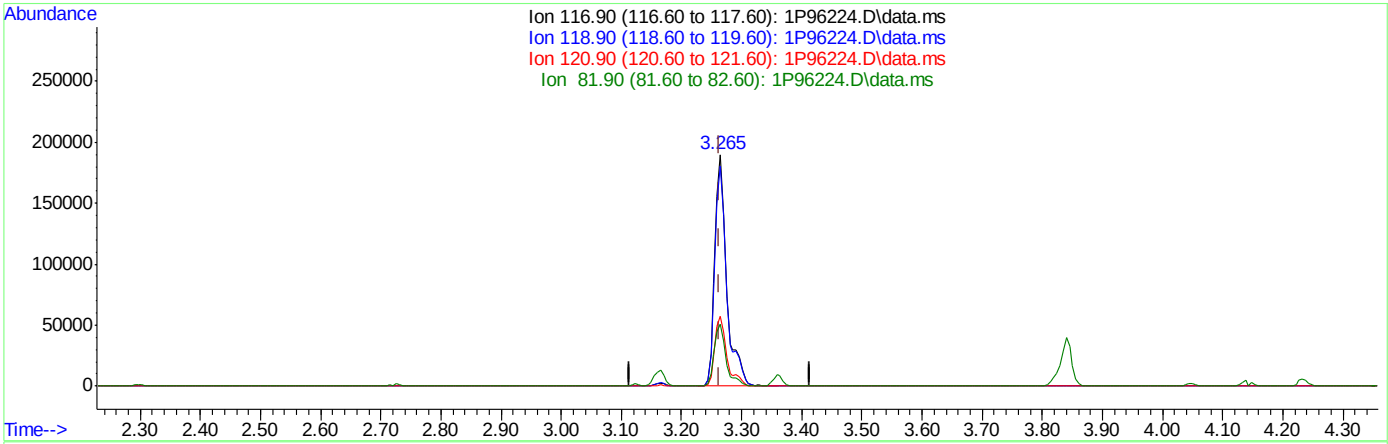
Sample Number: V1P3644-CC3621
Lab FileID: 1P96224.D
Injection Time: 12/12/22 10:02
Method: SW846 8260D
Analyst approved: 12/12/22 10:48 Courtney Failla
Supervisor approved: 12/14/22 01:34 Jennifer Fereira

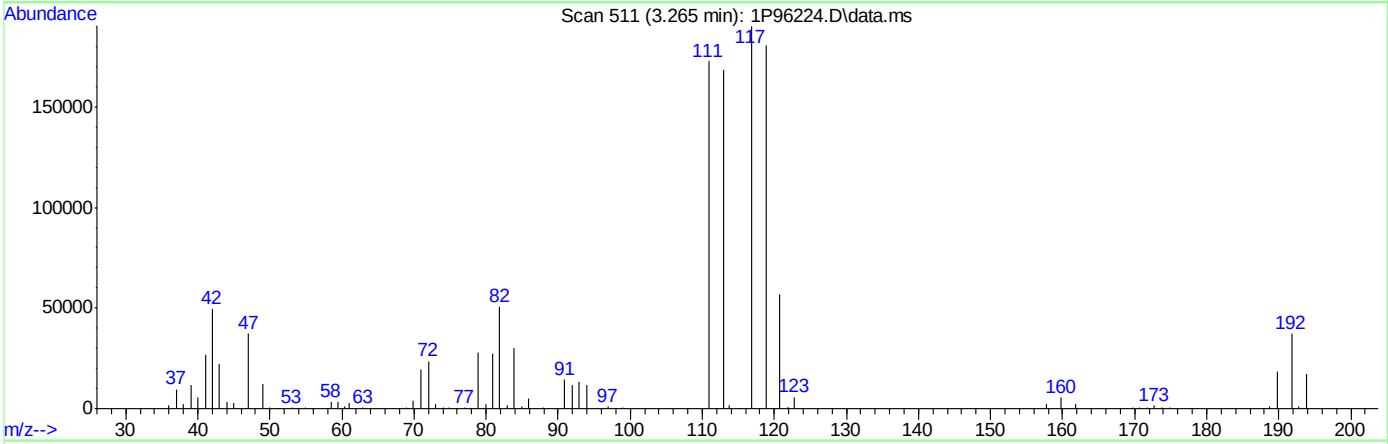
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.96	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:15:10 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96224.D\data.ms

(40) Carbon Tetrachloride ( )

3.265min (+0.000) 60.73ug/L

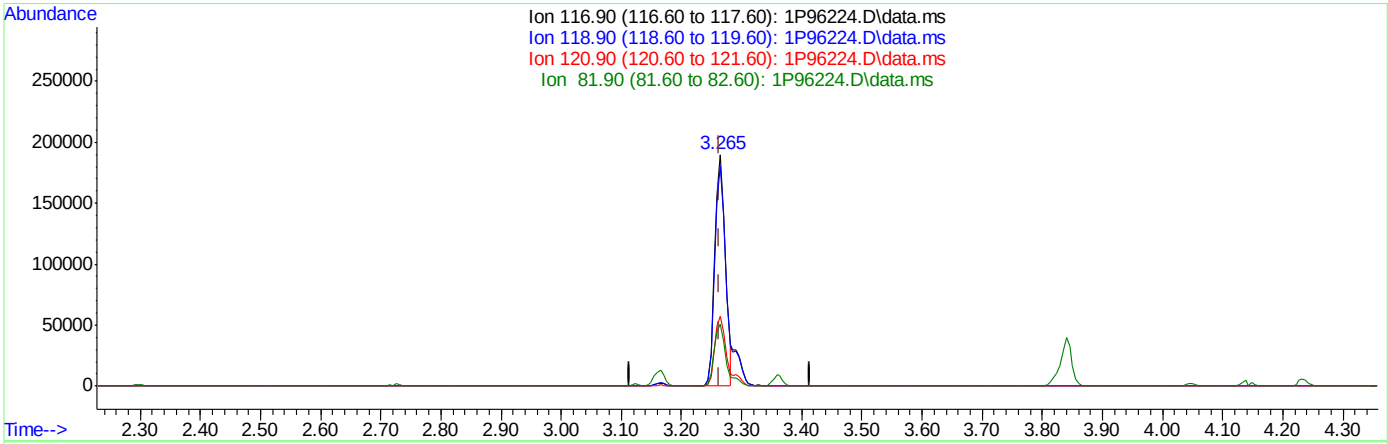
response 258133

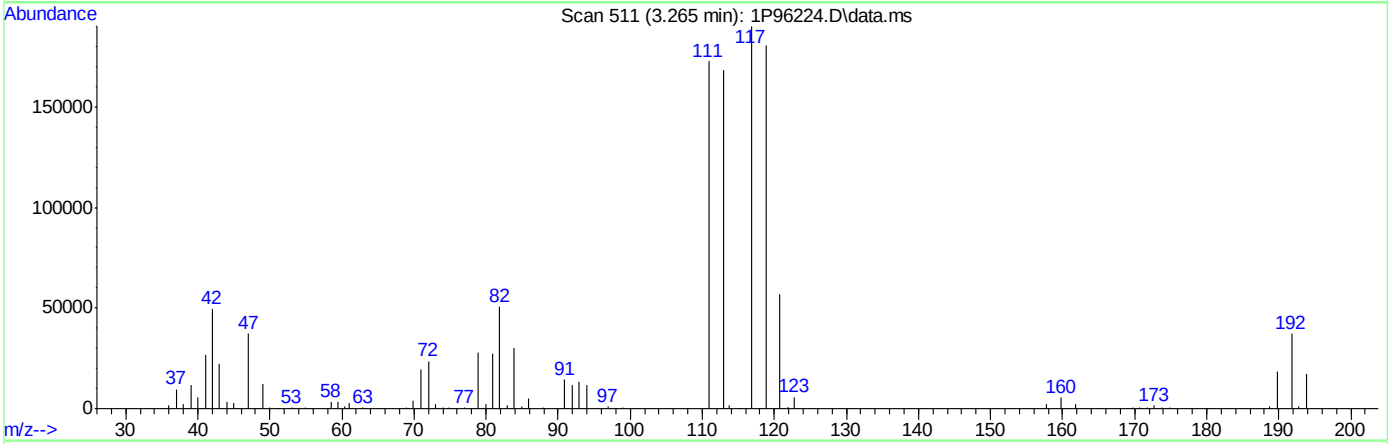
Ion	Exp%	Act%
116.90	100	100
118.90	97.80	95.08
120.90	31.00	30.00
81.90	30.20	26.67

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:15:10 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96224.D\data.ms

(40) Carbon Tetrachloride ( )

3.265min (+0.000) 52.64ug/L m

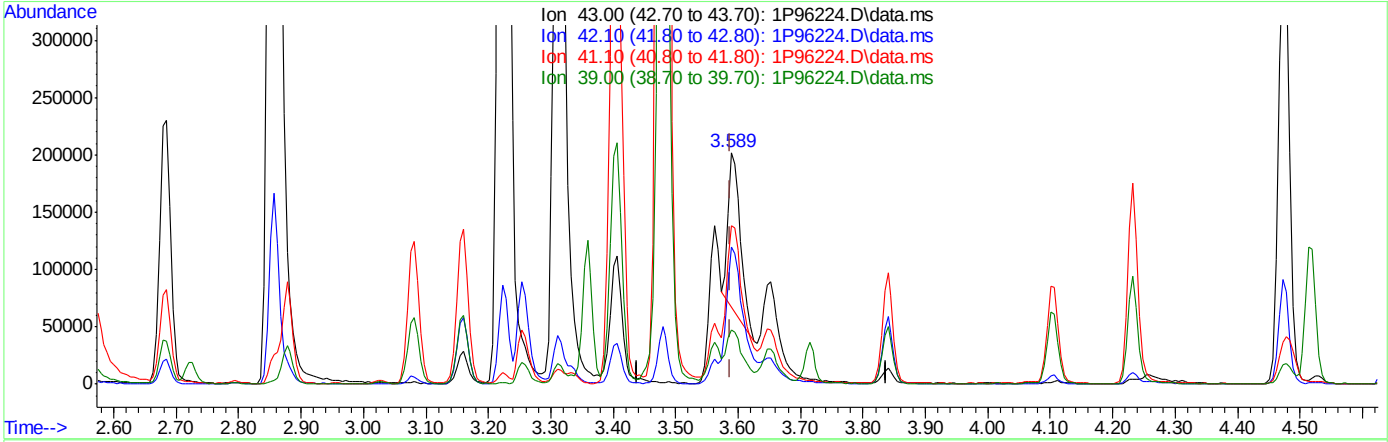
response 223745

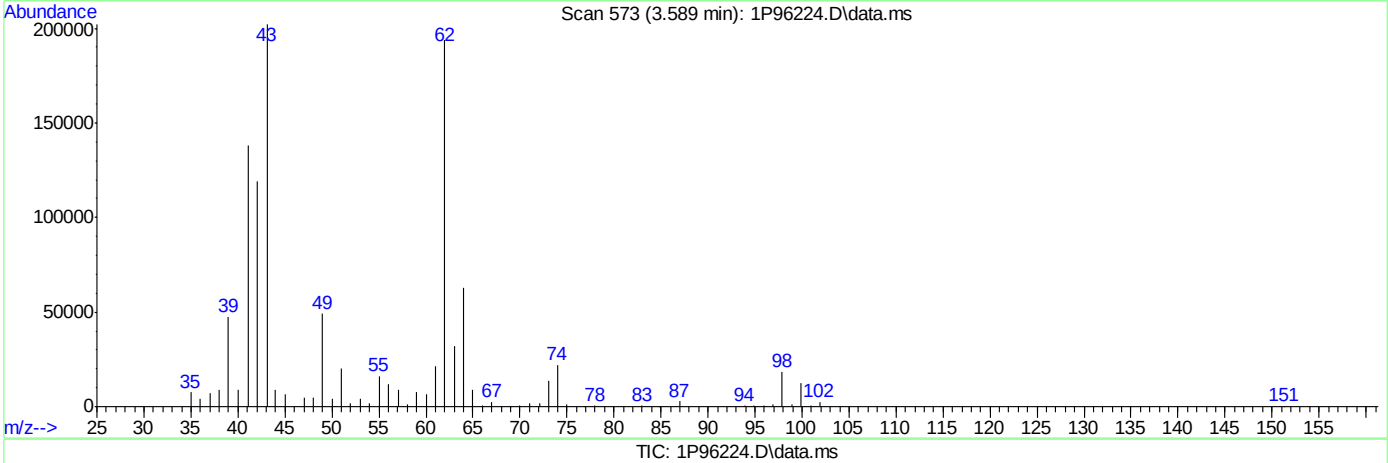
Ion	Exp%	Act%
116.90	100	100
118.90	97.80	95.08
120.90	31.00	30.00
81.90	30.20	26.67

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:15:10 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96224.D\data.ms

(50) Isobutyl alcohol

3.589min (+0.000) 255.93ug/L

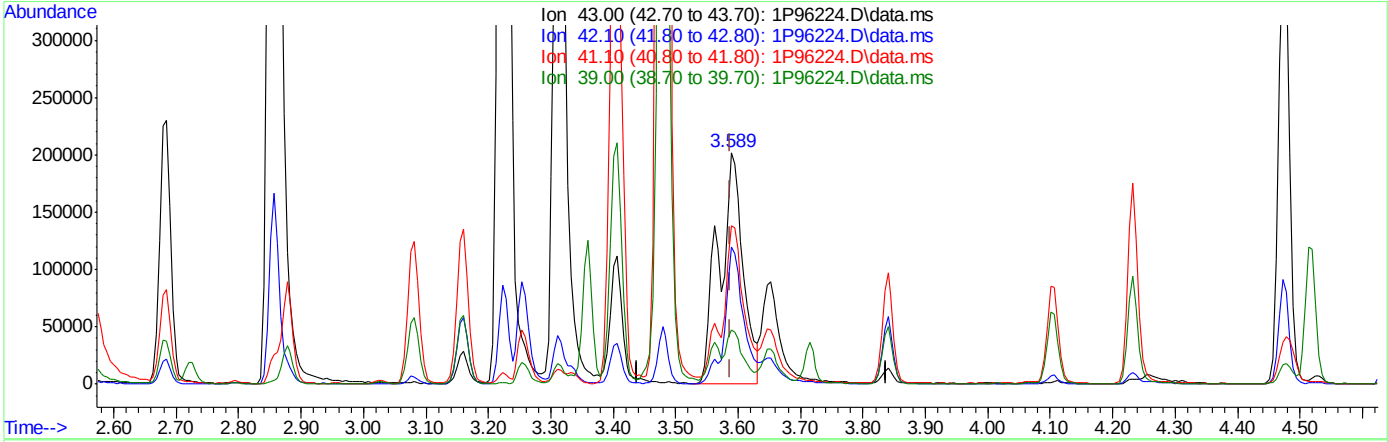
response 182245

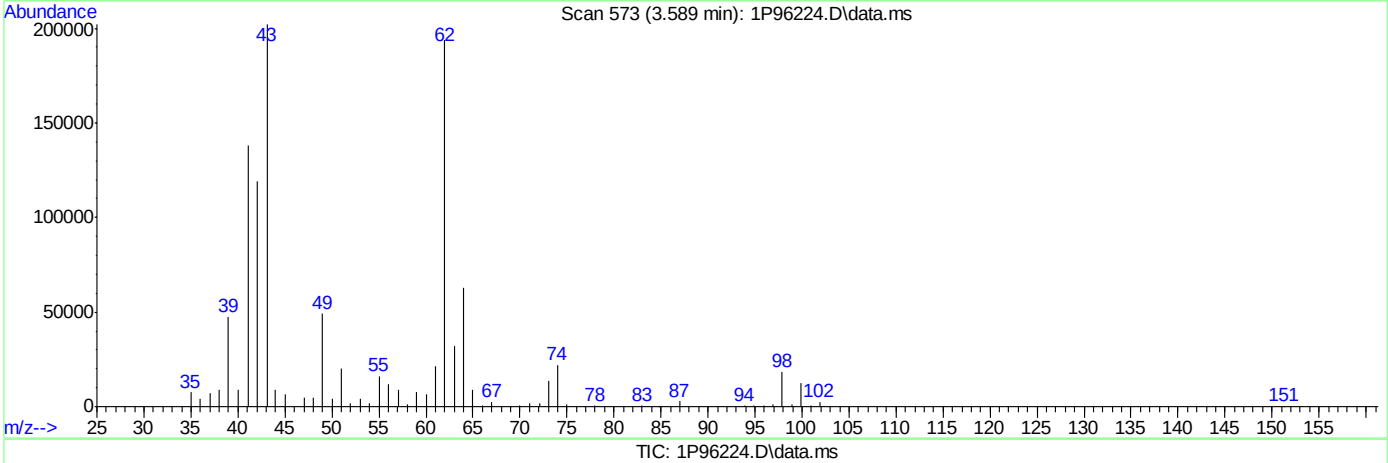
Ion	Exp%	Act%
43.00	100	100
42.10	59.60	59.66
41.10	71.40	64.94
39.00	26.20	22.48

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:15:10 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96224.D\data.ms

(50) Isobutyl alcohol

3.589min (+0.000) 760.39ug/L m

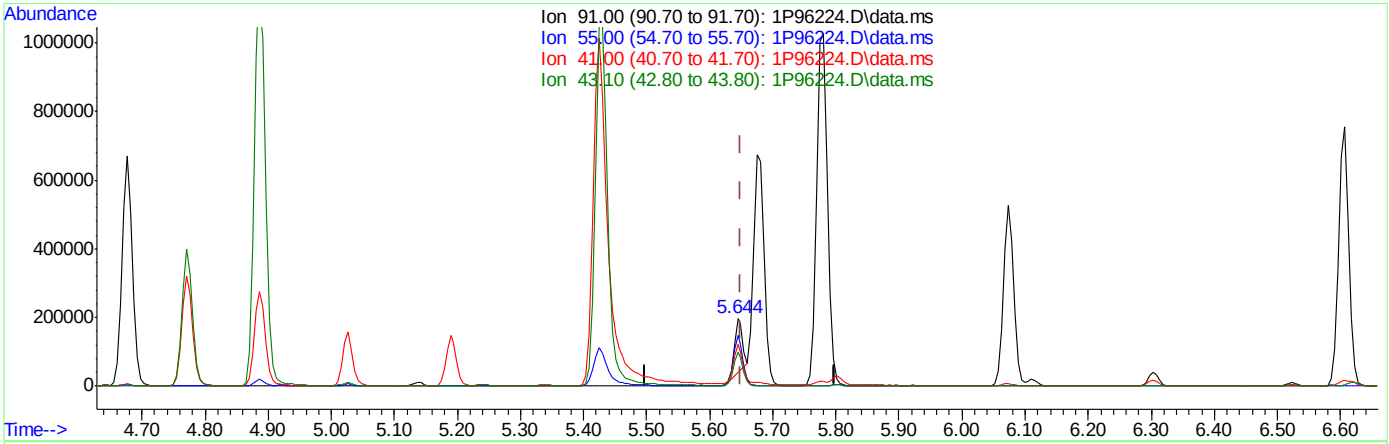
response 541477

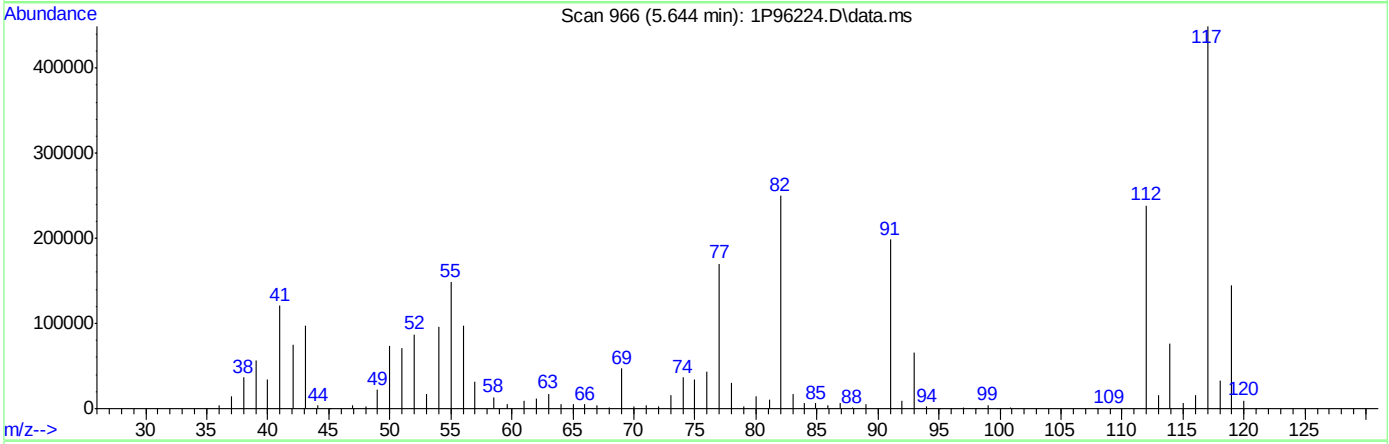
Ion	Exp%	Act%
43.00	100	100
42.10	59.60	59.00
41.10	71.40	68.24
39.00	26.20	23.42

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:15:10 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96224.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.005) 29.22ug/L

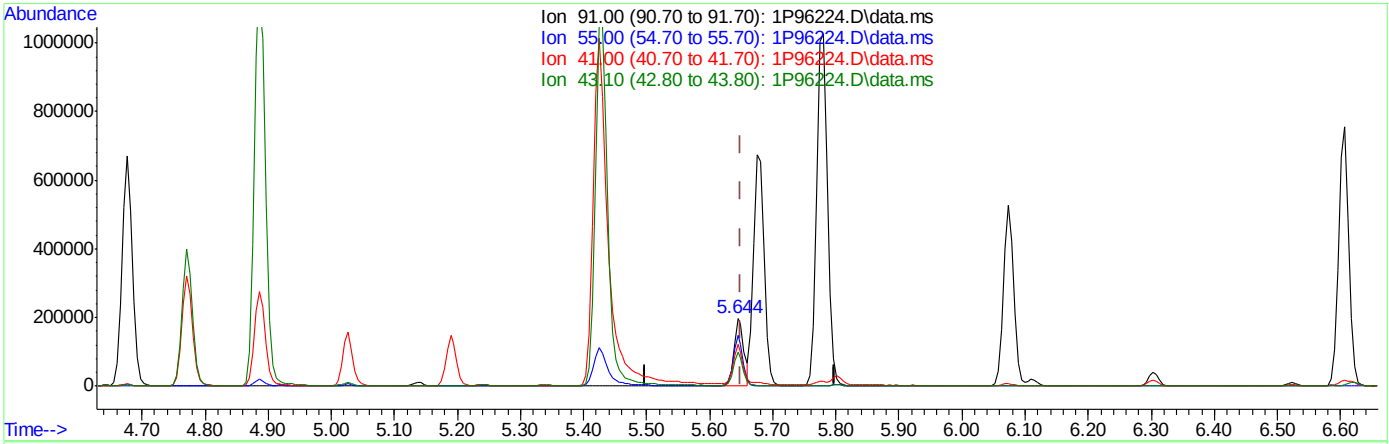
response 154870

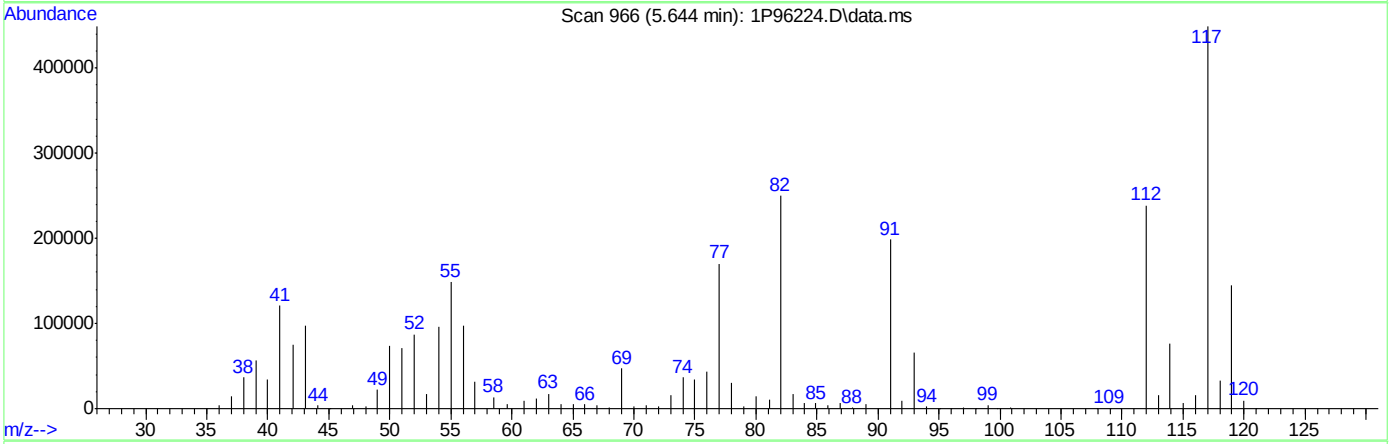
Ion	Exp%	Act%
91.00	100	100
55.00	73.20	72.14
41.00	62.10	56.25
43.10	50.00	47.26

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:15:10 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96224.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.005) 42.77ug/L m

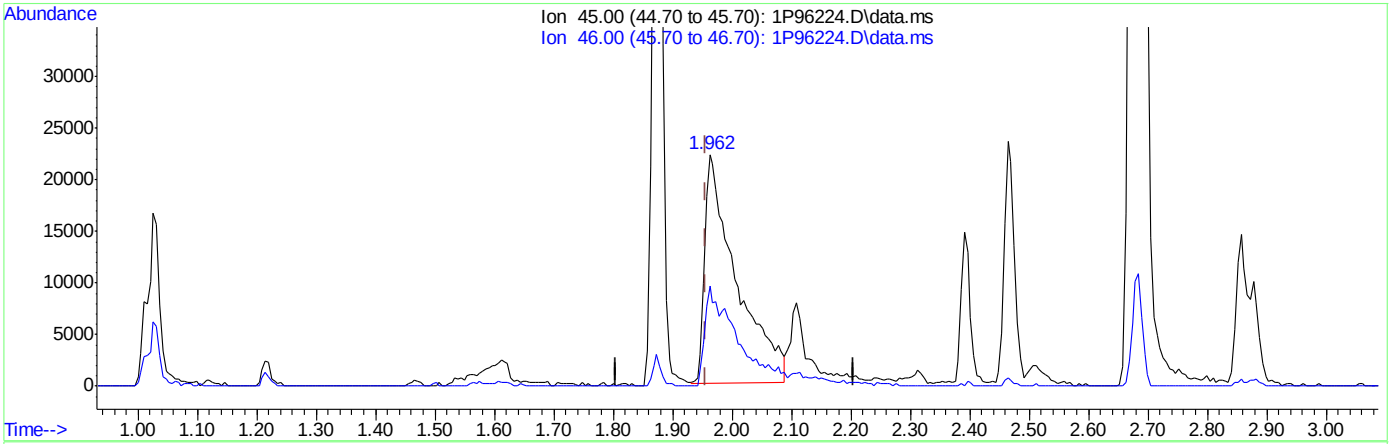
response 227073

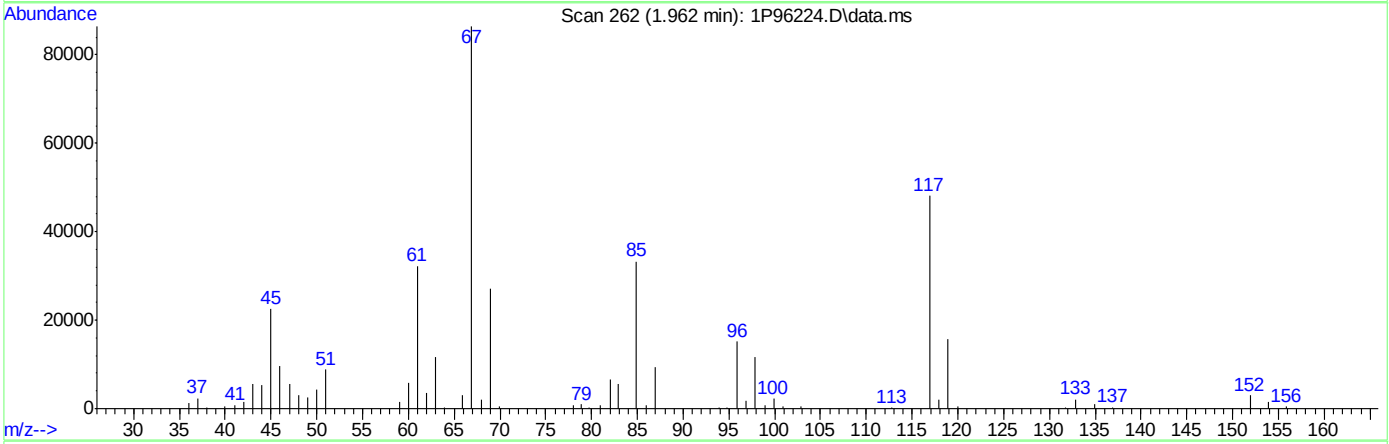
Ion	Exp%	Act%
91.00	100	100
55.00	73.20	74.89
41.00	62.10	60.69
43.10	50.00	49.40

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:15:51 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96224.D\data.ms

(10) Ethanol

1.962min (+0.006) 638.06ug/L

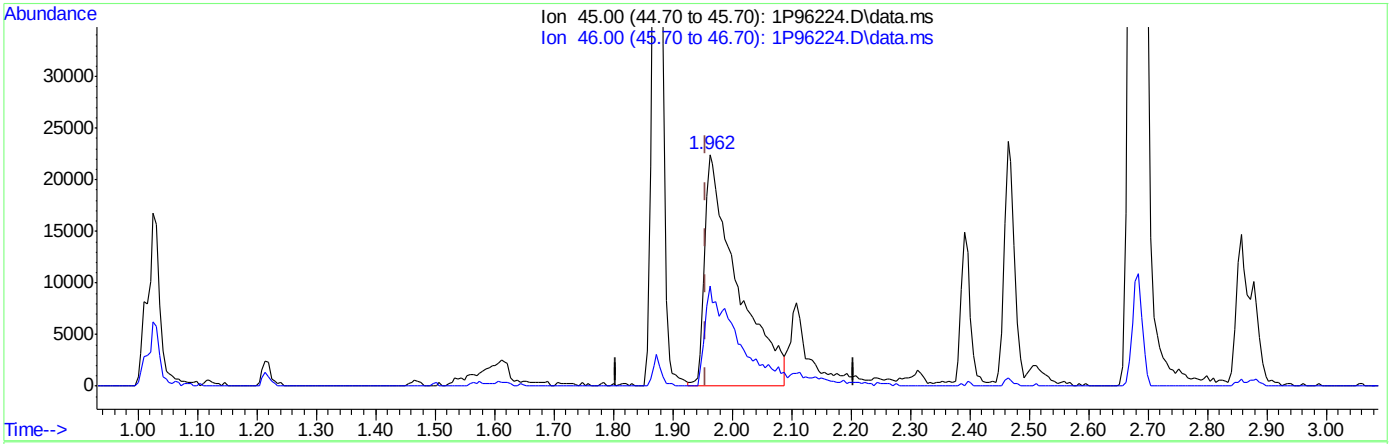
response 82118

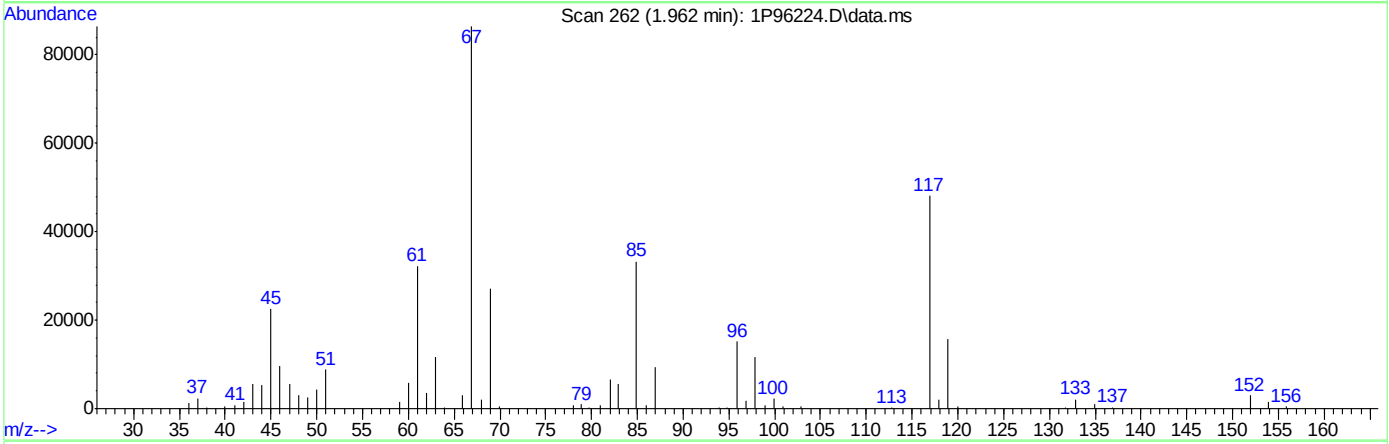
Ion	Exp%	Act%
45.00	100	100
46.00	44.30	44.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 1P96224.D
Acq On : 12 Dec 2022 10:02 am
Operator : courtnef
Sample : CC3621-5
Misc : MS52806,V1P3644,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 10:15:51 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96224.D\data.ms

(10) Ethanol

1.962min (+0.006) 666.84ug/L m

response 85137

Ion	Exp%	Act%
45.00	100	100
46.00	44.30	43.35
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira
12/14/22 01:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96268.D
Acq On : 12 Dec 2022 9:42 pm
Operator : courtnef
Sample : ECC3621-5 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:03:12 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.718	96	964435	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.638	117	666386	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.327	152	300805	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.258	113	215249	53.52	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.04%			
49) 1,2-Dichloroethane-d4	3.546	65	304796	52.59	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.18%			
63) Toluene-d8	4.644	98	959274	49.06	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.12%			
86) 4-Bromofluorobenzene	6.490	174	238157	51.83	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.66%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.119	85	190427	55.82	ug/L	99
3) Chloromethane	1.245	50	182847	37.86	ug/L	98
4) 1,3-butadiene	1.313	39	156953	34.04	ug/L	99
5) Vinyl Chloride	1.302	62	169199	39.70	ug/L	96
6) Bromomethane	1.506	94	48336	124.53	ug/L	95
7) Chloroethane	1.579	64	62253	50.03	ug/L	100
8) Trichlorofluoromethane	1.668	101	193353	44.71	ug/L	98
9) Ethyl Ether	1.872	59	128196	35.29	ug/L	97
10) Ethanol	1.966	45	75927	614.75	ug/L	91
11) 1,2-Dichlorotrifluoroe...	1.972	67	182703	39.56	ug/L	97
12) 1,1-Dichloroethene	1.977	61	239235	43.34	ug/L	97
13) Freon 113	2.008	101	147002	46.43	ug/L	97
14) Carbon Disulfide	1.992	76	394055	36.64	ug/L	97
15) Iodomethane	2.055	142	95331	187.28	ug/L	95
16) Acrolein	2.149	56	211629	173.63	ug/L	99
17) Allyl chloride	2.244	41	231290	51.60	ug/L	97
18) Methylene Chloride	2.296	49	188534	33.81	ug/L	98
19) Acetone	2.312	43	445905	182.56	ug/L	97
20) Methyl acetate	2.395	43	986567	173.02	ug/L	94
21) trans-1,2-Dichloroethene	2.395	61	229998	43.48	ug/L	99
22) Hexane	2.463	56	112645	38.67	ug/L	96
23) Methyl Tert Butyl Ether	2.468	73	545297	43.68	ug/L	93
24) Tert Butyl Alcohol	2.510	59	461850	364.67	ug/L	98
25) Acetonitrile	2.552	41	398979m	551.45	ug/L	
26) Di-isopropyl ether	2.683	45	504643	39.06	ug/L	98
27) Chloroprene	2.725	53	689940	35.65	ug/L	99
28) 1,1-Dichloroethane	2.725	63	291969	42.85	ug/L	98
29) Acrylonitrile	2.725	52	439779	172.21	ug/L	98
30) ETBE	2.876	59	518546	41.17	ug/L	99
31) Vinyl acetate	2.855	43	1789258	183.42	ug/L	100
32) cis-1,2-Dichloroethene	3.018	96	165581	44.10	ug/L	98
33) 2,2-Dichloropropane	3.080	77	239243	42.36	ug/L	97
34) Bromochloromethane	3.122	128	66889	44.12	ug/L	90
35) Cyclohexane	3.159	56	254773	41.39	ug/L	94
36) Chloroform	3.164	83	301220	44.89	ug/L	99
37) Ethyl acetate	3.222	43	1280552	185.50	ug/L	99
38) Tetrahydrofuran	3.253	42	90732	34.11	ug/L	97
40) Carbon Tetrachloride	3.263	117	223891m	55.24	ug/L	
41) 1,1,1-Trichloroethane	3.290	97	274347	49.07	ug/L	95
42) 2-Butanone	3.310	43	762173	188.40	ug/L	99
43) 1,1-Dichloropropene	3.358	75	230233	44.77	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96268.D
Acq On : 12 Dec 2022 9:42 pm
Operator : courtnef
Sample : ECC3621-5 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:03:12 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl formate	3.405	59	711572	241.98	ug/L		93
45) Propionitrile	3.457	54	426952	384.03	ug/L		98
46) Methacrylonitrile	3.478	41	1445885	362.24	ug/L		100
47) Benzene	3.494	78	633978	38.52	ug/L		96
48) TAME	3.562	73	494559	42.21	ug/L		99
50) Isobutyl alcohol	3.593	43	337722m	497.39	ug/L		
51) 1,2-Dichloroethane	3.588	62	240123	43.67	ug/L		96
52) Tert Amyl Alcohol	3.650	59	378392	369.09	ug/L		98
53) Trichloroethene	3.823	95	169734	43.73	ug/L		93
54) Methylcyclohexane	3.839	83	247917	44.85	ug/L		99
55) Dibromomethane	4.048	93	97753	44.49	ug/L		87
56) 1,2-Dichloropropane	4.105	63	172557	44.62	ug/L		95
57) Bromodichloromethane	4.142	83	210016	50.95	ug/L		98
58) Methyl methacrylate	4.231	41	195658	43.85	ug/L		94
59) 1,4-Dioxane	4.257	88	75839	915.70	ug/L		87
60) 2-Chloroethyl vinyl ether	4.477	63	619353	479.73	ug/L		93
61) cis-1,3-Dichloropropene	4.519	75	266955	49.07	ug/L		92
64) Toluene	4.676	91	733065	41.68	ug/L		100
65) 2-Nitropropane	4.770	41	355936	193.32	ug/L		96
66) 4-Methyl-2-pentanone	4.885	43	1474265	200.56	ug/L		99
67) trans-1,3-Dichloropropene	4.916	75	238383	46.58	ug/L		92
68) Tetrachloroethene	4.932	166	176216	51.26	ug/L		99
69) Ethyl methacrylate	5.026	69	262120	44.91	ug/L		90
70) 1,1,2-Trichloroethane	5.016	83	127207	42.16	ug/L		98
71) Dibromochloromethane	5.141	129	140801	47.98	ug/L		96
72) 1,3-Dichloropropane	5.193	76	281489	41.98	ug/L		94
73) 1,2-Dibromoethane	5.293	107	151672	44.52	ug/L		97
74) 3,3-dimethyl-1-butanol	5.423	57	2083651	1824.65	ug/L		98
75) 2-hexanone	5.429	43	1435292	177.75	ug/L		96
76) 1-Chlorohexane	5.648	91	212156m	39.52	ug/L		
77) Ethylbenzene	5.680	91	773222	41.97	ug/L		99
78) Chlorobenzene	5.648	112	400009	40.33	ug/L		97
79) 1,1,1,2-Tetrachloroethane	5.695	131	143762	48.39	ug/L		96
80) m,p-Xylene	5.779	91	1187834	83.35	ug/L		98
81) o-Xylene	6.072	91	589899	41.92	ug/L		98
82) Styrene	6.103	104	436606	44.22	ug/L		99
83) Bromoform	6.114	173	82596	52.45	ug/L		96
84) Isopropylbenzene	6.302	105	670272	43.06	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.522	53	68709	39.24	ug/L	#	81
88) n-Propylbenzene	6.605	91	813051	39.45	ug/L		100
89) Bromobenzene	6.569	156	156740	42.21	ug/L		89
90) 1,1,2,2-Tetrachloroethane	6.626	83	226920	39.19	ug/L		99
91) 1,3,5-Trimethylbenzene	6.752	105	550622	40.13	ug/L		98
92) 2-Chlorotoluene	6.710	91	483153	39.42	ug/L		98
93) trans-1,4-Dichloro-2-B...	6.757	53	74830	36.00	ug/L		95
94) 1,2,3-Trichloropropane	6.721	110	77668	38.15	ug/L		97
95) Cyclohexanone	6.747	55	72363	183.89	ug/L		92
96) 4-Chlorotoluene	6.830	91	500357	38.99	ug/L		97
97) tert-Butylbenzene	6.987	91	306977	39.52	ug/L		99
99) 1,2,4-Trimethylbenzene	7.040	105	516159	38.67	ug/L		96
100) Pentachloroethane	6.992	167	79984	47.73	ug/L	#	62
101) sec-Butylbenzene	7.128	105	596082	39.74	ug/L		99
102) 4-Isopropyltoluene	7.244	119	518293	41.34	ug/L		97
103) 1,3-Dichlorobenzene	7.275	146	280219	41.17	ug/L		98
104) 1,2,3-Trimethylbenzene	7.369	105	513944	38.85	ug/L		99
105) 1,4-Dichlorobenzene	7.343	146	287552	40.79	ug/L		96
106) n-Butylbenzene	7.557	92	255806	39.21	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96268.D
Acq On : 12 Dec 2022 9:42 pm
Operator : courtnef
Sample : ECC3621-5 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:03:12 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration

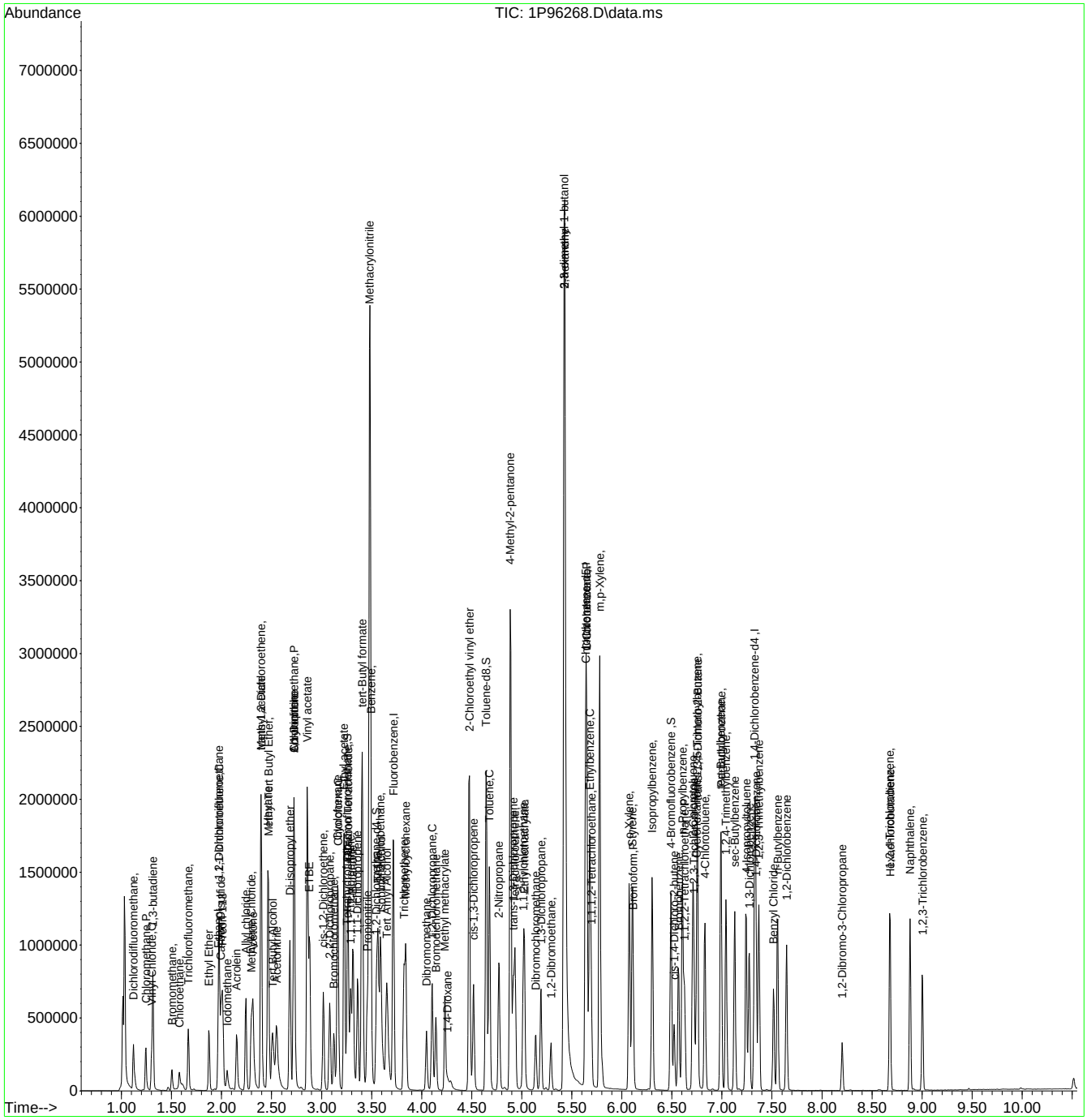
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) Benzyl Chloride	7.516	126	66846	38.81	ug/L	94
108) 1,2-Dichlorobenzene	7.646	146	265793	41.64	ug/L	97
109) 1,2-Dibromo-3-Chloropr...	8.201	75	57154	44.28	ug/L	85
110) Hexachlorobutadiene	8.682	225	62569	53.20	ug/L	98
111) 1,2,4-Trichlorobenzene	8.677	180	148664	42.77	ug/L	99
112) Naphthalene	8.881	128	534752	34.92	ug/L	99
113) 1,2,3-Trichlorobenzene	9.006	180	149440	46.49	ug/L	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96268.D
Acq On : 12 Dec 2022 9:42 pm
Operator : courtnef
Sample : ECC3621-5 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:03:12 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



Manual Integration Approval Summary

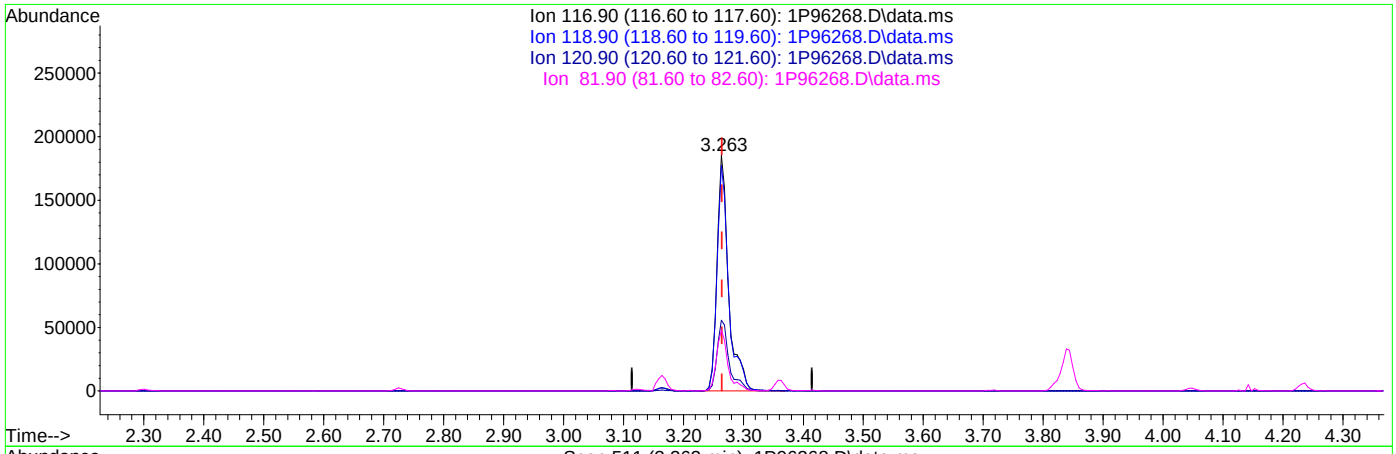
Sample Number: V1P3644-ECC3621 **Method:** SW846 8260D
Lab FileID: 1P96268.D **Analyst approved:** 12/12/22 23:46 Jennifer Fereira
Injection Time: 12/12/22 21:42 **Supervisor approved:** 12/14/22 01:34 Jennifer Fereira

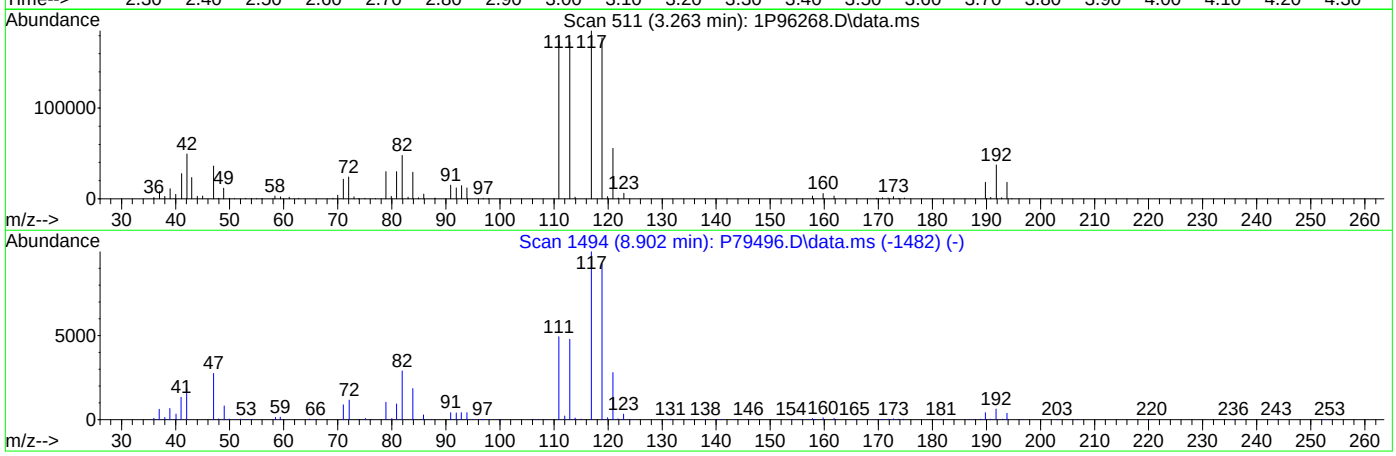
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.55	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96268.D
Acq On : 12 Dec 2022 9:42 pm
Operator : courtnef
Sample : ECC3621-5 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:02:06 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96268.D\data.ms

(40) Carbon Tetrachloride ( )

3.263min (-0.001) 61.78ug/L

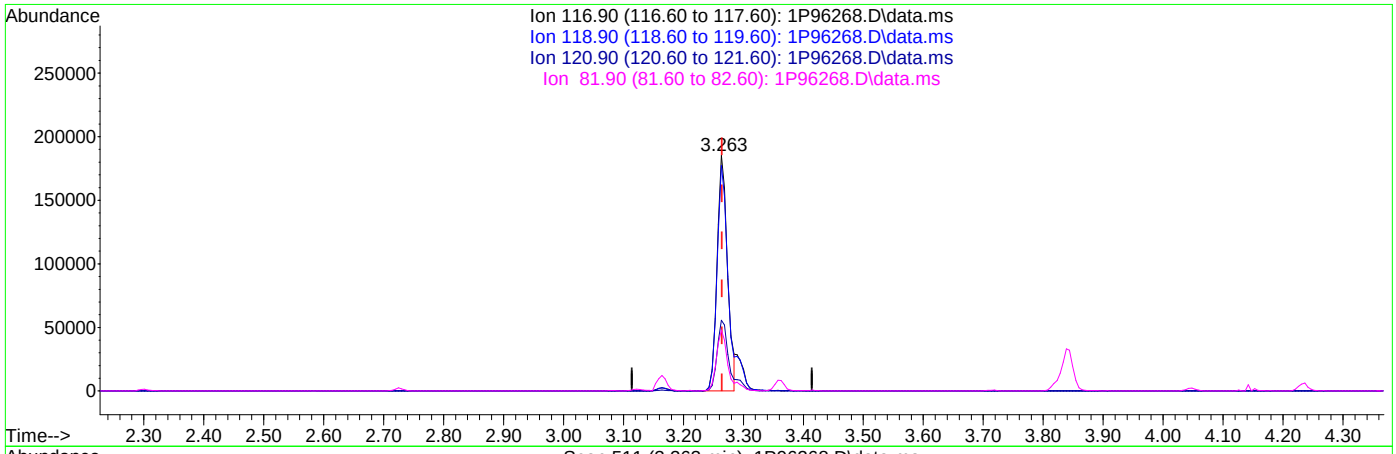
response 250404

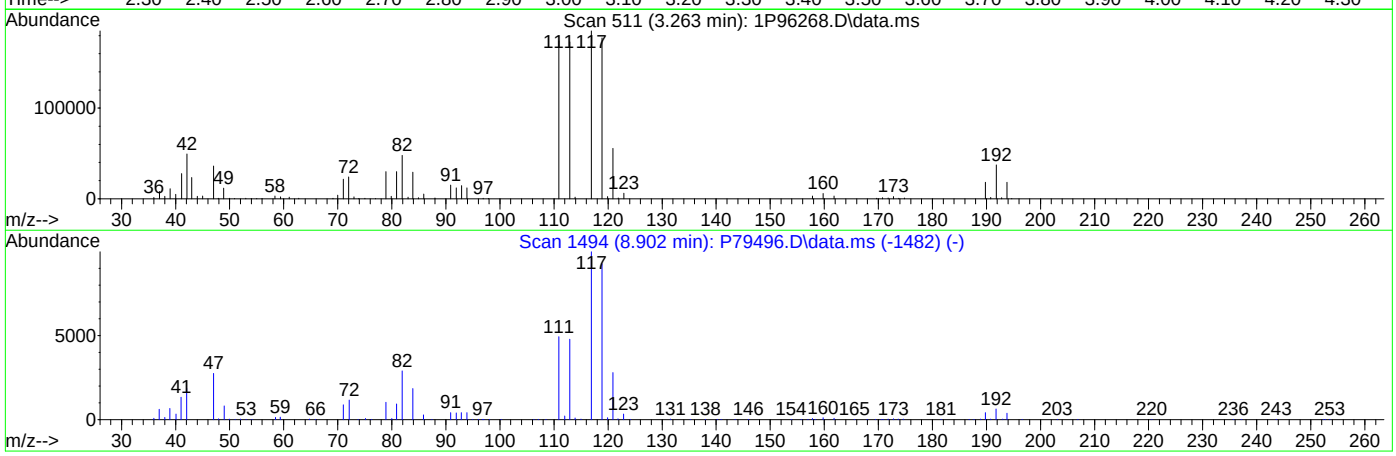
Ion	Exp%	Act%
116.90	100	100
118.90	97.80	95.75
120.90	31.00	29.99
81.90	30.20	25.88

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96268.D
Acq On : 12 Dec 2022 9:42 pm
Operator : courtnef
Sample : ECC3621-5 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:02:06 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96268.D\data.ms

(40) Carbon Tetrachloride ( )

3.263min (-0.001) 55.24ug/L m

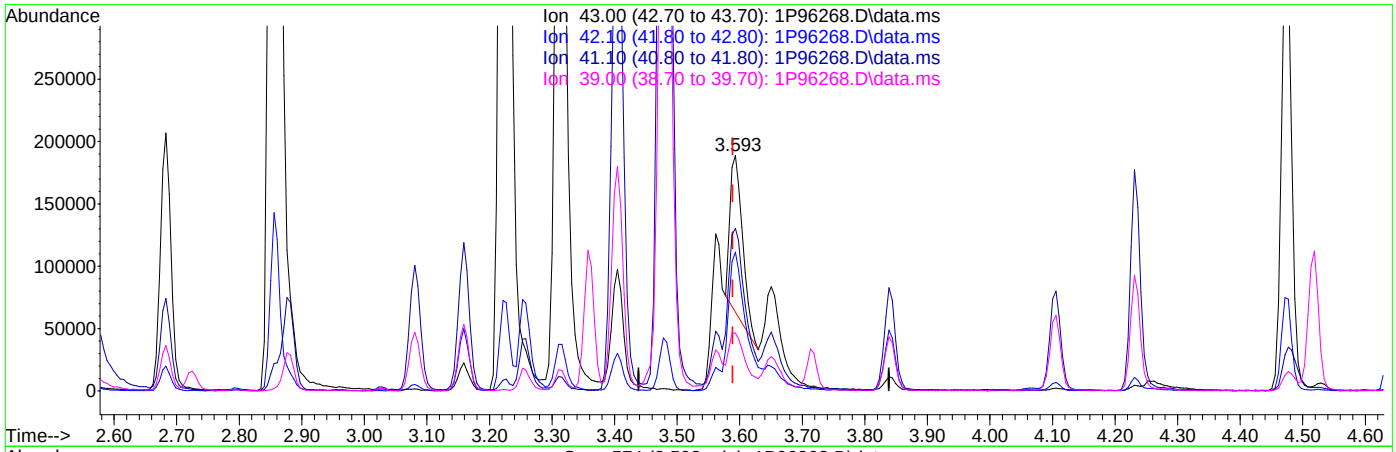
response 223891

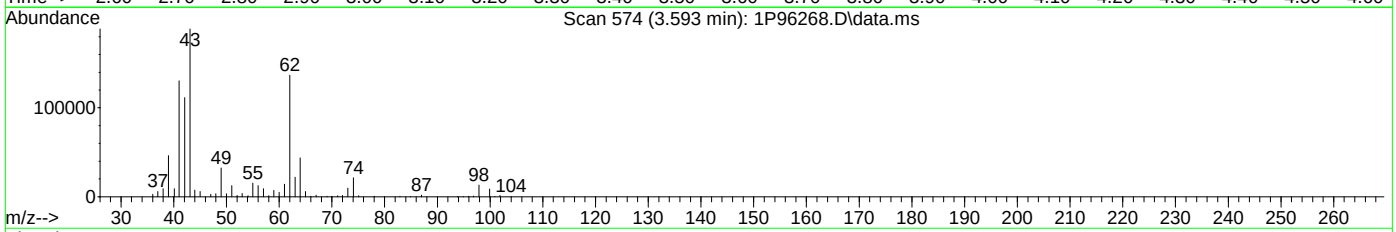
Ion	Exp%	Act%
116.90	100	100
118.90	97.80	95.75
120.90	31.00	29.99
81.90	30.20	25.88

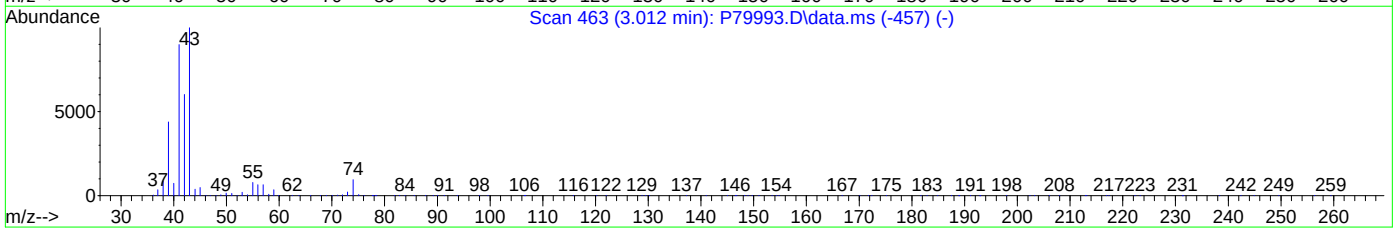
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96268.D
Acq On : 12 Dec 2022 9:42 pm
Operator : courtnef
Sample : ECC3621-5 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:02:06 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration







TIC: 1P96268.D\data.ms

(50) Isobutyl alcohol

3.593min (+0.004) 245.71ug/L

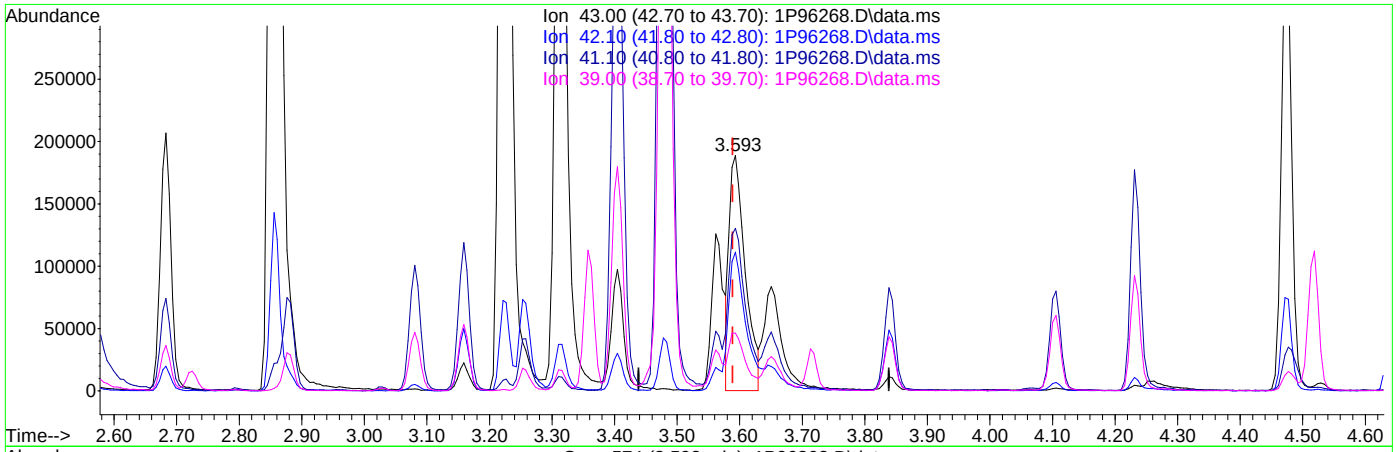
response 166832

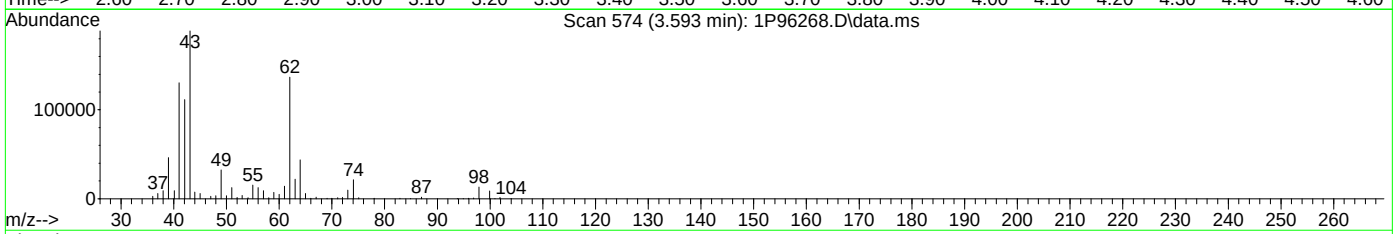
Ion	Exp%	Act%
43.00	100	100
42.10	59.60	59.36
41.10	71.40	68.63
39.00	26.20	23.31

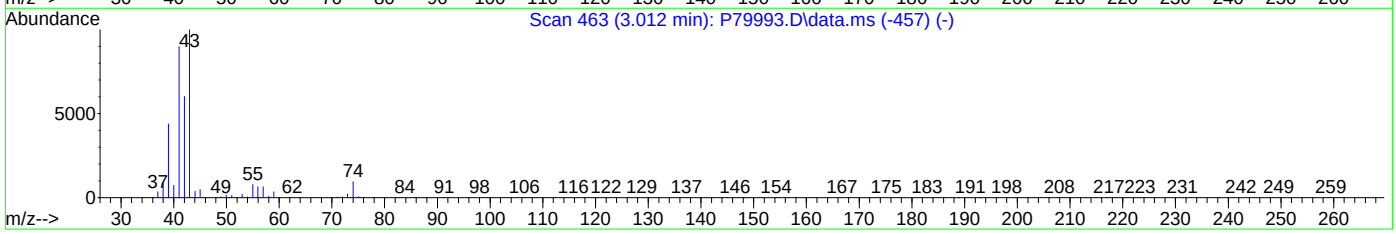
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96268.D
Acq On : 12 Dec 2022 9:42 pm
Operator : courtnef
Sample : ECC3621-5 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:02:06 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration







TIC: 1P96268.D\data.ms

(50) Isobutyl alcohol

3.593min (+0.004) 497.39ug/L m

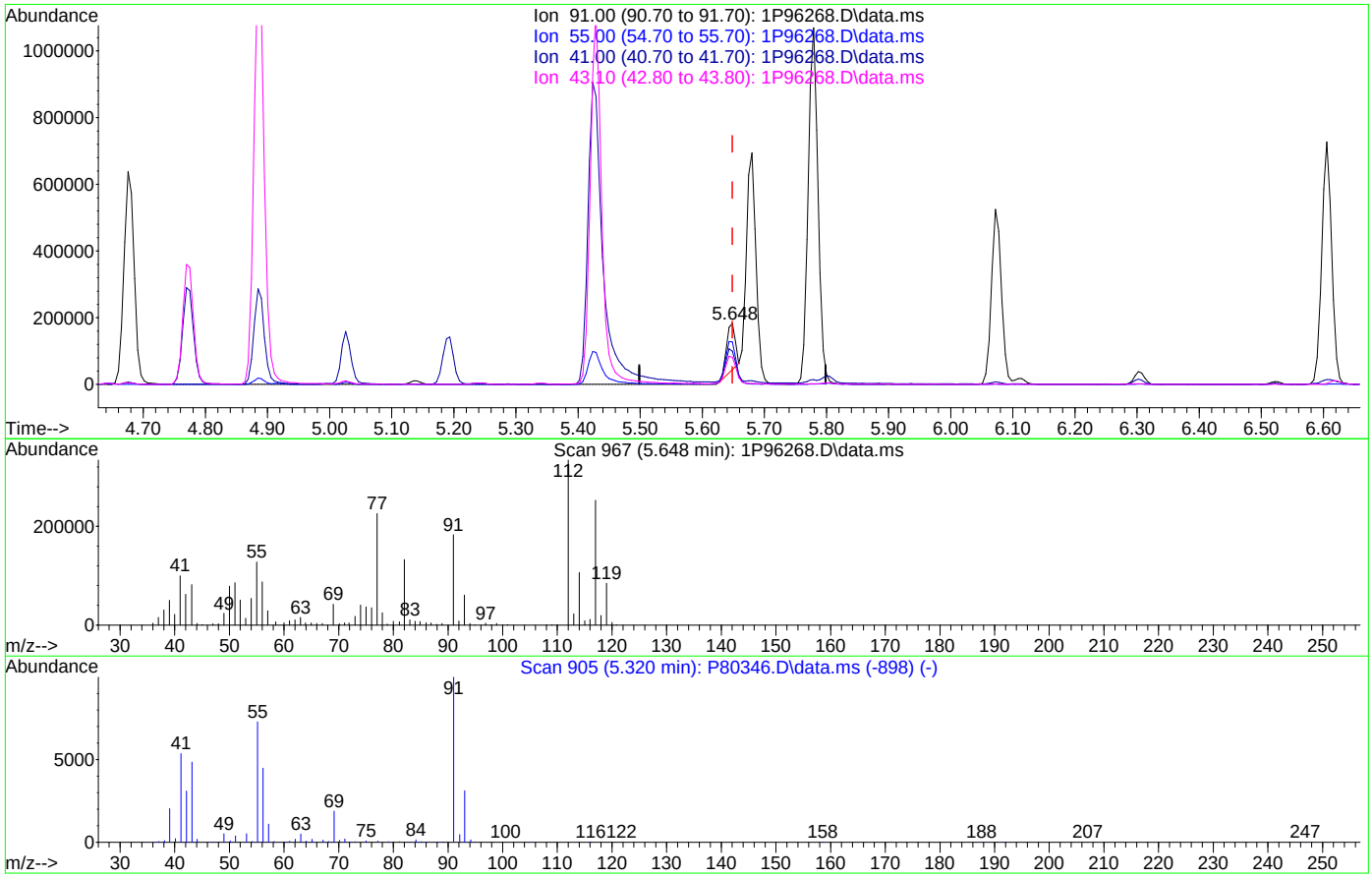
response 337722

Ion	Exp%	Act%
43.00	100	100
42.10	59.60	58.94
41.10	71.40	69.07
39.00	26.20	24.52

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96268.D
Acq On : 12 Dec 2022 9:42 pm
Operator : courtnef
Sample : ECC3621-5 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:02:06 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



TIC: 1P96268.D\data.ms

(76) 1-Chlorohexane

5.648min (-0.001) 27.22ug/L

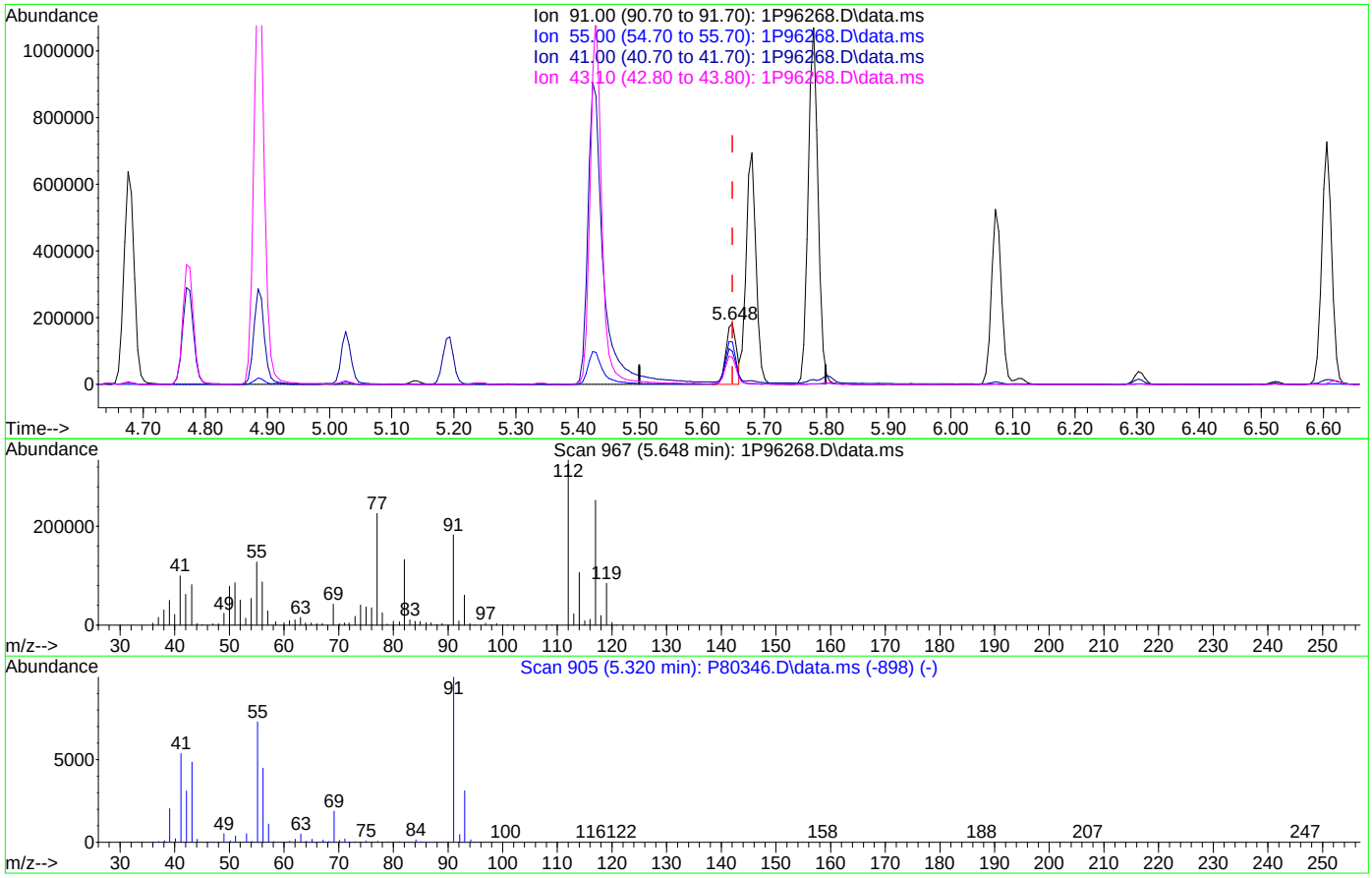
response 145943

Ion	Exp%	Act%
91.00	100	100
55.00	73.20	67.42
41.00	62.10	50.16
43.10	50.00	42.18

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96268.D
Acq On : 12 Dec 2022 9:42 pm
Operator : courtnef
Sample : ECC3621-5 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:02:06 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration



TIC: 1P96268.D\data.ms

(76) 1-Chlorohexane

5.648min (-0.001) 39.52ug/L m

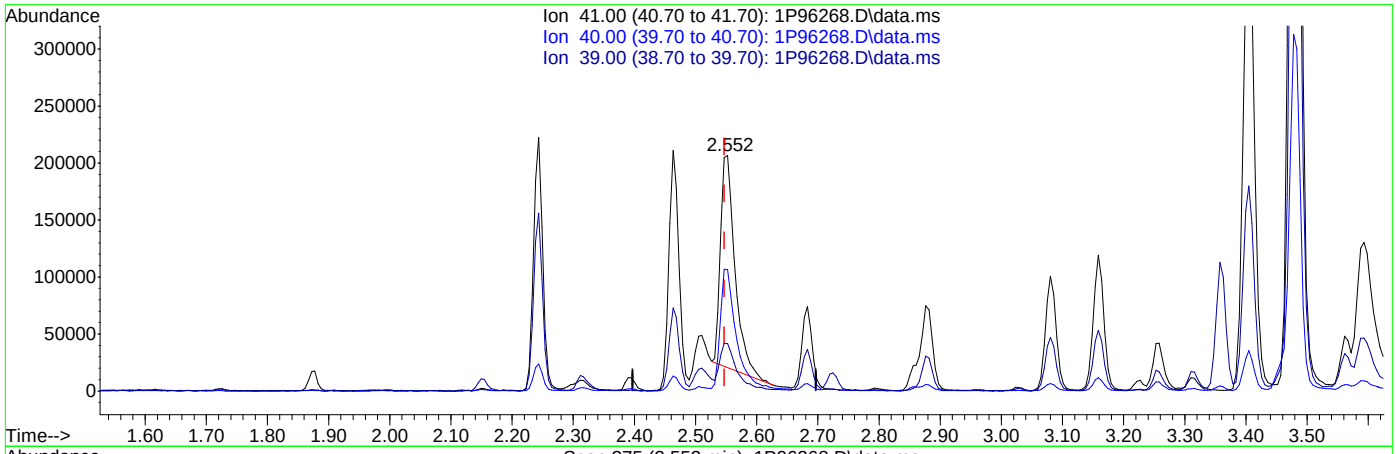
response 212156

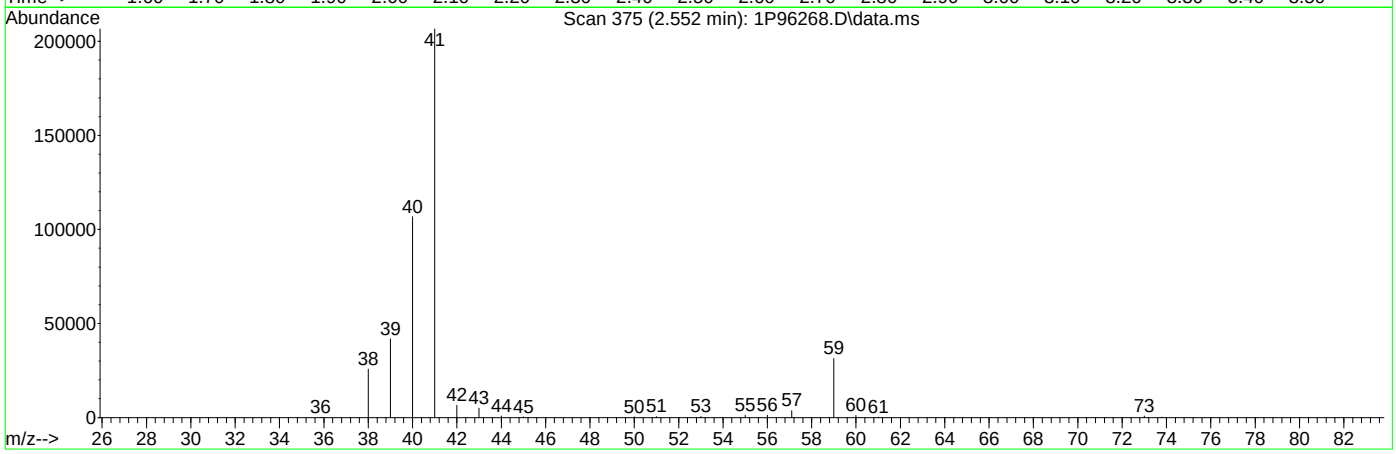
Ion	Exp%	Act%
91.00	100	100
55.00	73.20	69.62
41.00	62.10	54.49
43.10	50.00	44.60

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96268.D
Acq On : 12 Dec 2022 9:42 pm
Operator : courtnef
Sample : ECC3621-5 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:02:50 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96268.D\data.ms

(25) Acetonitrile

2.552min (+0.005) 385.08ug/L

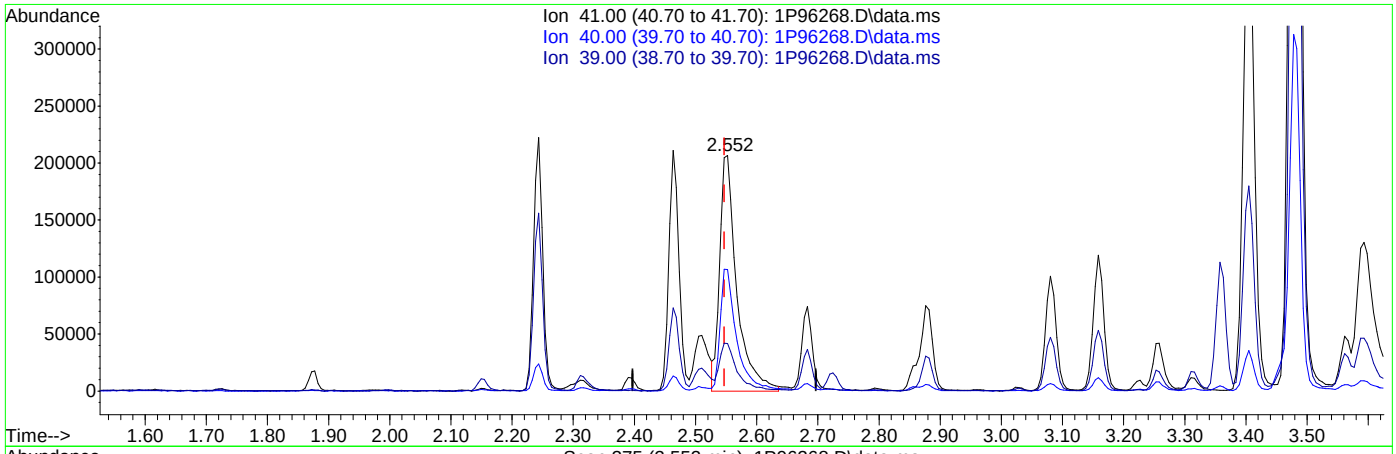
response 302373

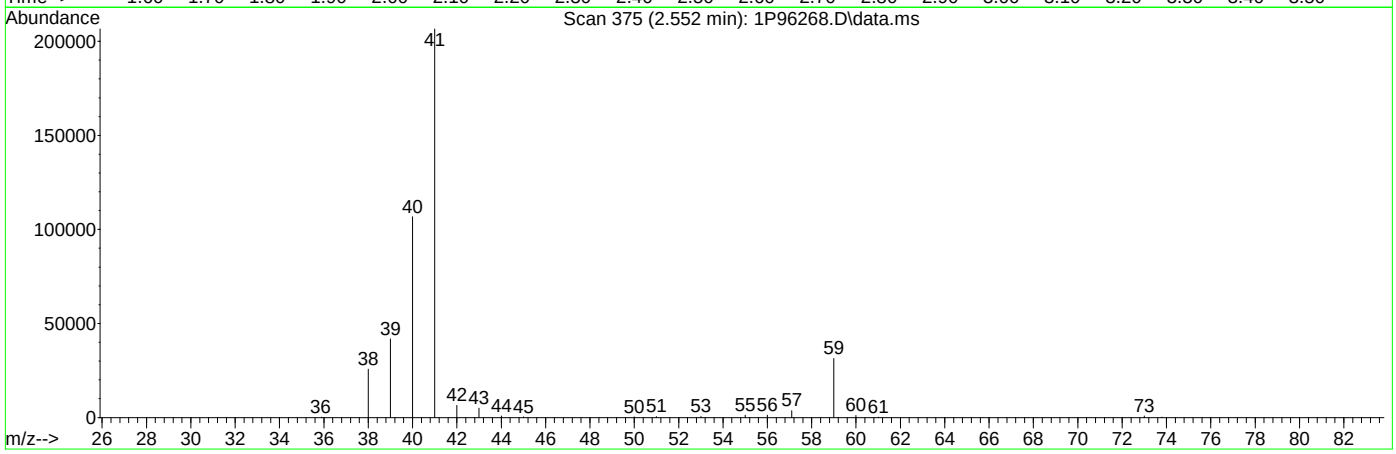
Ion	Exp%	Act%
41.00	100	100
40.00	51.60	51.88
39.00	20.40	20.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V1P3644\
Data File : 1P96268.D
Acq On : 12 Dec 2022 9:42 pm
Operator : courtnef
Sample : ECC3621-5 Inst : MSVOA13
Misc : MS52987,V1P3644,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V1P_2022-11-04.M
Quant Results File: V1P_2022-11-04.RES
Quant Time: Dec 12 22:02:50 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:23:46 2022
Response via : Initial Calibration





TIC: 1P96268.D\data.ms

(25) Acetonitrile

2.552min (+0.005) 551.45ug/L m

response 398979

Ion	Exp%	Act%
41.00	100	100
40.00	51.60	51.63
39.00	20.40	20.20
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 12/20/22 07:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 15:00:35 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	202873	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	168813	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	92638	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.189	113	62075	56.38	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 112.76%			
49) 1,2-Dichloroethane-d4	3.481	65	67070	53.19	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.38%			
63) Toluene-d8	4.613	98	213093	56.25	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 112.50%#			
86) 4-Bromofluorobenzene	6.514	174	78540	56.77	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 113.54%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.049	85	1162	1.15	ug/L	84
3) Chloromethane	1.172	50	1154	0.89	ug/L	99
4) 1,3-butadiene	1.234	39	699m	0.60	ug/L	
5) Vinyl Chloride	1.219	62	1125	0.86	ug/L	89
6) Bromomethane	1.419	94	782m	0.88	ug/L	
7) Chloroethane	1.496	64	637m	0.61	ug/L	
8) Trichlorofluoromethane	1.596	101	1757	0.71	ug/L	94
9) Ethyl Ether	1.780	59	859m	0.72	ug/L	
11) 1,2-Dichlorotrifluoroe...	1.880	67	1519	1.21	ug/L	98
12) 1,1-Dichloroethene	1.888	61	1676	0.98	ug/L	95
13) Freon 113	1.927	101	1246	1.08	ug/L	87
14) Carbon Disulfide	1.904	76	3557	1.15	ug/L	90
15) Iodomethane	1.965	142	1664	2.40	ug/L	89
16) Acrolein	2.058	56	951	3.10	ug/L	88
17) Allyl chloride	2.158	41	920	0.66	ug/L	95
18) Methylene Chloride	2.211	49	3107	2.12	ug/L	73
19) Acetone	2.219	43	2849	5.24	ug/L	97
20) Methyl acetate	2.304	43	4900	2.79	ug/L	85
21) trans-1,2-Dichloroethene	2.311	61	1695	1.06	ug/L	86
22) Hexane	2.381	56	872m	0.83	ug/L	
23) Methyl Tert Butyl Ether	2.381	73	2991	0.99	ug/L	81
24) Acetonitrile	2.381	41	1864m	8.09	ug/L	
25) Tert Butyl Alcohol	2.404	59	1984	6.20	ug/L	72
26) Di-isopropyl ether	2.596	45	2815	0.71	ug/L	93
27) Chloroprene	2.635	53	2841	0.68	ug/L	91
28) 1,1-Dichloroethane	2.642	63	2045	1.01	ug/L	96
29) Acrylonitrile	2.635	52	1890	2.85	ug/L	91
30) ETBE	2.796	59	2937	0.79	ug/L	94
31) Vinyl acetate	2.773	43	7360	2.75	ug/L	98
32) cis-1,2-Dichloroethene	2.935	96	1363	1.13	ug/L	92
33) 2,2-Dichloropropane	3.004	77	2048	1.29	ug/L	98
34) Bromochloromethane	3.043	128	694m	1.28	ug/L	
35) Cyclohexane	3.081	56	1840	0.92	ug/L	88
36) Chloroform	3.089	83	2342	1.13	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 15:00:35 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Ethyl acetate	3.150	43	4890	2.29	ug/L		94
38) Tetrahydrofuran	3.181	42	537m	0.71	ug/L		
40) Carbon Tetrachloride	3.189	117	1813m	1.14	ug/L		
41) 1,1,1-Trichloroethane	3.220	97	2059	1.20	ug/L		91
42) 2-Butanone	3.243	43	3885	3.69	ug/L		91
43) 1,1-Dichloropropene	3.289	75	1660	1.15	ug/L		84
44) tert-Butyl formate	3.335	59	3226	3.76	ug/L		93
45) Propionitrile	3.389	54	1204	3.81	ug/L		94
46) Methacrylonitrile	3.412	41	4456	3.53	ug/L		90
47) Benzene	3.420	78	4781	1.02	ug/L	#	66
48) TAME	3.497	73	2887	0.94	ug/L		91
50) 1,2-Dichloroethane	3.520	62	1736	0.99	ug/L		95
51) Isobutyl Alcohol	3.504	43	718m	4.33	ug/L		
52) Tert Amyl Alcohol	3.581	59	1399	4.94	ug/L		96
53) Trichloroethene	3.758	95	1422	1.10	ug/L		87
54) Methylcyclohexane	3.781	83	1975	1.05	ug/L	#	85
55) Dibromomethane	3.989	93	859m	1.03	ug/L		
56) 1,2-Dichloropropane	4.051	63	1163	0.94	ug/L		87
57) Bromodichloromethane	4.089	83	1456	0.98	ug/L		94
58) Methyl methacrylate	4.189	41	589m	0.40	ug/L		
59) 1,4-Dioxane	4.205	88	239m	11.23	ug/L		
60) 2-Chloroethyl vinyl ether	4.436	63	3270	3.54	ug/L		87
61) cis-1,3-Dichloropropene	4.474	75	1701	0.98	ug/L		91
64) Toluene	4.643	91	5859	1.22	ug/L		99
65) 2-Nitropropane	4.744	41	1507	2.86	ug/L		89
66) 4-Methyl-2-pentanone	4.859	43	8115	3.91	ug/L		97
67) trans-1,3-Dichloropropene	4.890	75	1444	0.91	ug/L		92
68) Tetrachloroethene	4.905	166	1599	1.21	ug/L		95
69) Ethyl methacrylate	5.013	69	860	0.52	ug/L		83
70) 1,1,2-Trichloroethane	4.990	83	878m	0.95	ug/L		
71) Dibromochloromethane	5.121	129	1157	0.91	ug/L		93
72) 1,3-Dichloropropane	5.175	76	1794	0.99	ug/L		86
73) 1,2-Dibromoethane	5.275	107	1239	1.01	ug/L		92
74) 3,3-Dimethyl-1-Butanol	5.405	57	8032	22.54	ug/L		93
75) 2-hexanone	5.421	43	7211	3.04	ug/L	#	61
76) 1-Chlorohexane	5.644	91	2301m	1.30	ug/L		
77) Ethylbenzene	5.675	91	6504	1.15	ug/L		96
78) Chlorobenzene	5.644	112	3848	1.13	ug/L		84
79) 1,1,1,2-Tetrachloroethane	5.690	131	1167	0.91	ug/L		93
80) m,p-Xylene	5.783	91	10222	2.29	ug/L		96
81) o-Xylene	6.083	91	5094	1.18	ug/L		97
82) Styrene	6.121	104	3657	1.06	ug/L		93
83) Bromoform	6.121	173	756m	0.95	ug/L		
84) Isopropylbenzene	6.329	105	6314	1.18	ug/L		98
88) n-Propylbenzene	6.637	91	7783	1.12	ug/L		96
89) Bromobenzene	6.591	156	1648	1.08	ug/L		91
90) 1,1,2,2-Tetrachloroethane	6.660	83	1650	0.87	ug/L		96
91) 1,3,5-Trimethylbenzene	6.791	105	5252	1.02	ug/L		100
92) 2-Chlorotoluene	6.745	91	4266	1.09	ug/L		94
94) 1,2,3-Trichloropropane	6.752	110	490m	0.78	ug/L		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 15:00:35 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

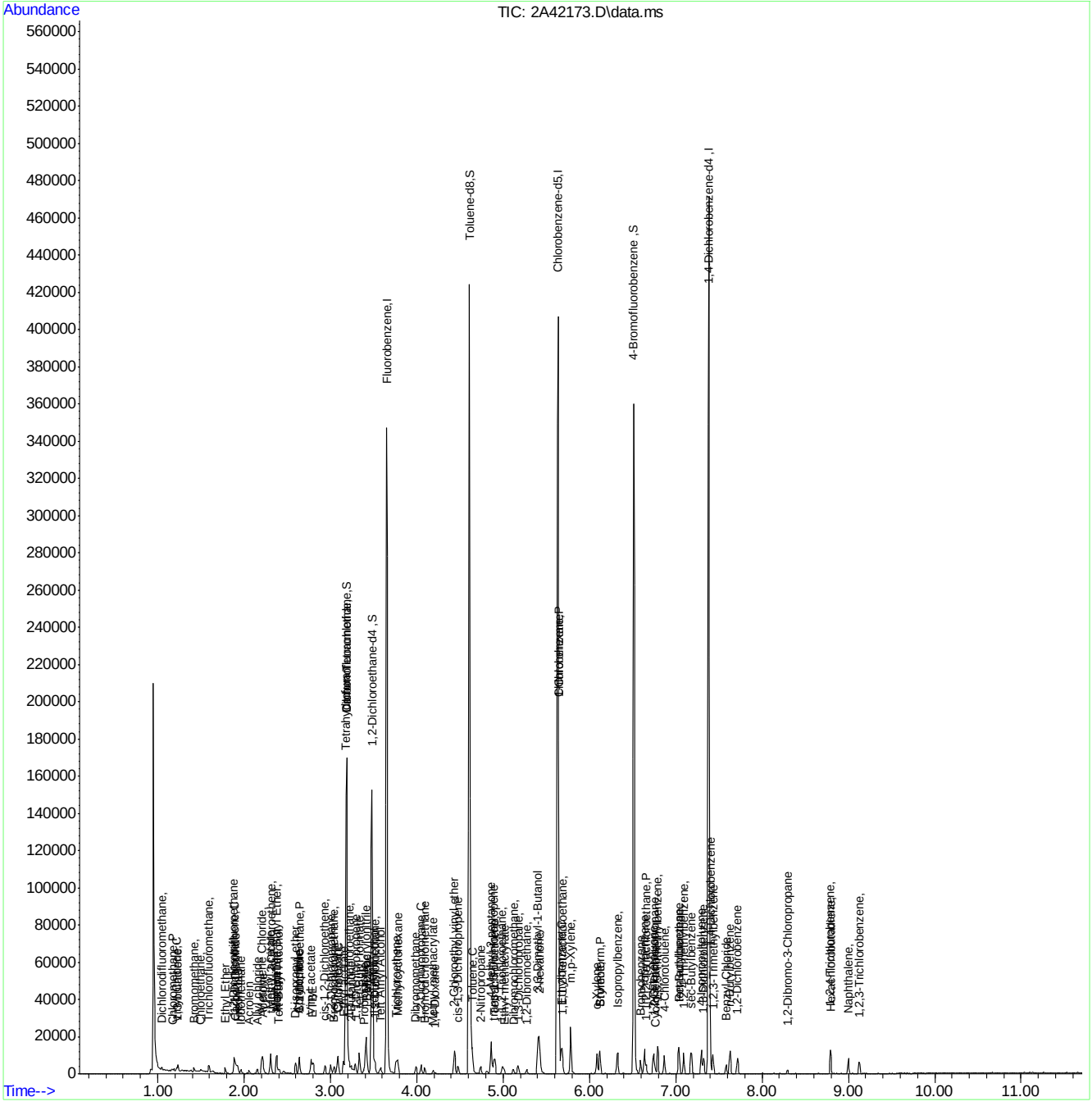
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
95) Cyclohexanone	6.768	55	289m	2.20	ug/L		
96) 4-Chlorotoluene	6.868	91	4410	1.06	ug/L		96
97) tert-Butylbenzene	7.037	91	3119	1.11	ug/L		89
98) 1,2,4-Trimethylbenzene	7.091	105	4692	0.95	ug/L		96
99) Pentachloroethane	7.037	167	424m	0.53	ug/L		
100) sec-Butylbenzene	7.176	105	6663	1.08	ug/L		93
101) 4-Isopropyltoluene	7.299	119	5640	1.04	ug/L		94
102) 1,3-Dichlorobenzene	7.322	146	3033	1.06	ug/L		98
103) 1,2,3-Trimethylbenzene	7.430	105	4563	0.95	ug/L		98
104) 1,4-Dichlorobenzene	7.399	146	3143	1.01	ug/L		89
105) n-Butylbenzene	7.630	92	2721	1.01	ug/L		99
106) Benzyl Chloride	7.583	126	582m	0.82	ug/L		
107) 1,2-Dichlorobenzene	7.714	146	2954	1.11	ug/L		97
108) 1,2-Dibromo-3-Chloropr...	8.299	75	327m	0.78	ug/L		
109) Hexachlorobutadiene	8.800	225	1129	1.59	ug/L	#	76
110) 1,2,4-Trichlorobenzene	8.792	180	1744	1.13	ug/L		95
111) Naphthalene	9.000	128	4571	0.87	ug/L		98
112) 1,2,3-Trichlorobenzene	9.123	180	1733	1.23	ug/L		91

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
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Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 15:00:35 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
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Manual Integration Approval Summary

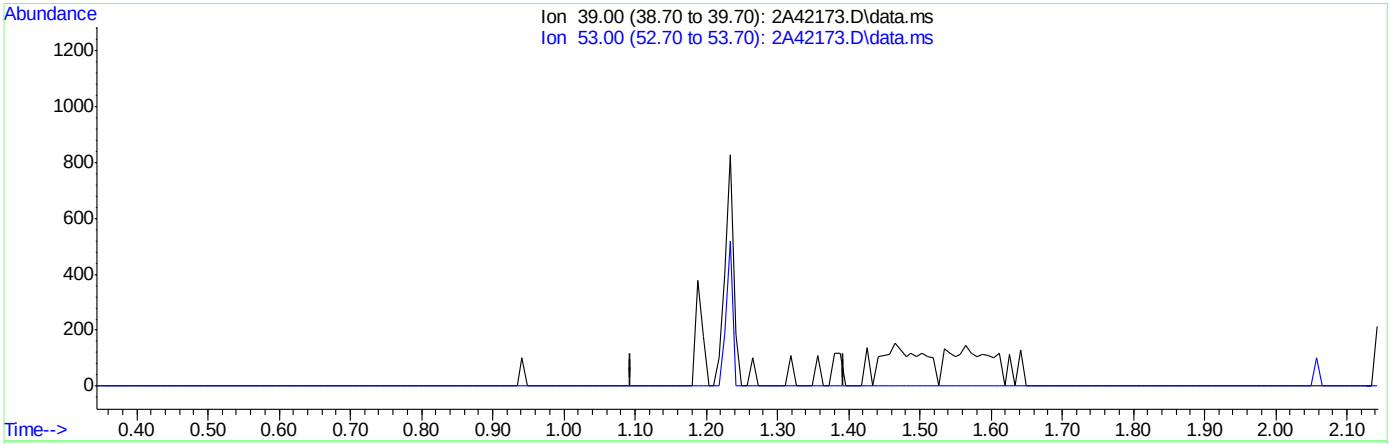
Sample Number: V2A1677-IC1677 **Method:** SW846 8260D
Lab FileID: 2A42173.D **Analyst approved:** 12/19/22 09:22 Jo-Ann Lugo De Jesus
Injection Time: 12/16/22 10:08 **Supervisor approved:** 12/20/22 07:54 Neil Christiana

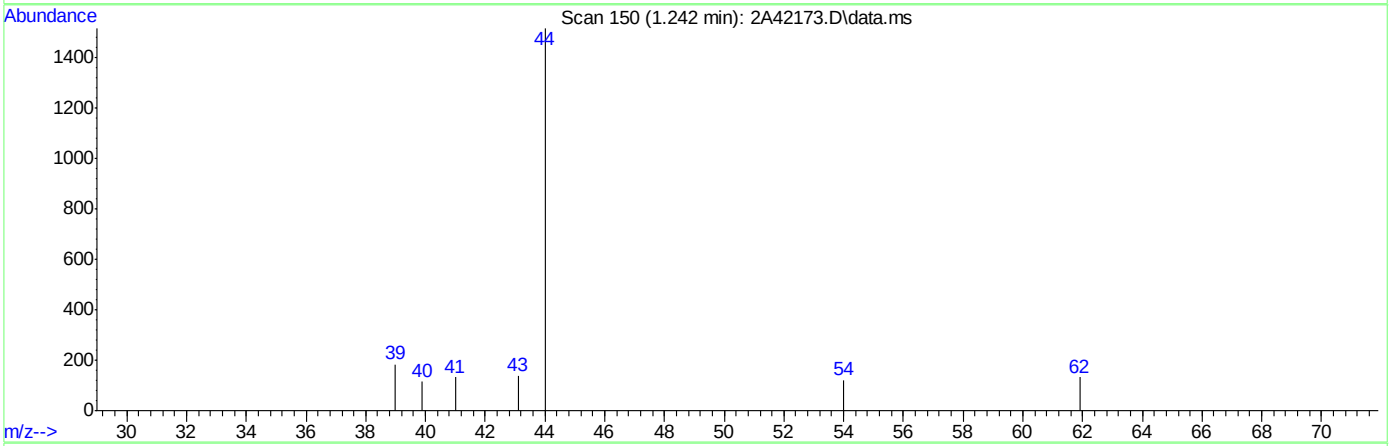
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,3-Butadiene	106-99-0		1.23	Missed peak
Methyl Bromide	74-83-9		1.42	Missed peak
Chloroethane	75-00-3		1.50	Missed peak
Ethyl Ether	60-29-7		1.78	Missed peak
Hexane	110-54-3		2.38	Missed peak
Acetonitrile	75-05-8		2.38	Overlapping peak
Bromochloromethane	74-97-5		3.04	Missed peak
Tetrahydrofuran	109-99-9		3.18	Missed peak
Carbon Tetrachloride	56-23-5		3.19	Overlapping peak
Isobutyl Alcohol	78-83-1		3.50	Poor instrument integration
Methylene Bromide	74-95-3		3.99	Missed peak
Methyl Methacrylate	80-62-6		4.19	Missed peak
1,4-Dioxane	123-91-1		4.20	Missed peak
1,1,2-Trichloroethane	79-00-5		4.99	Missed peak
1-Chlorohexane	544-10-5		5.64	Poor instrument integration
Bromoform	75-25-2		6.12	Missed peak
1,2,3-Trichloropropane	96-18-4		6.75	Missed peak
Cyclohexanone	108-94-1		6.77	Missed peak
Pentachloroethane	76-01-7		7.04	Missed peak
Benzyl Chloride	100-44-7		7.58	Missed peak
1,2-Dibromo-3-chloropropane	96-12-8		8.30	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42173.D\data.ms

(4) 1,3-butadiene

1.244min (-1.244) 0.00ug/L

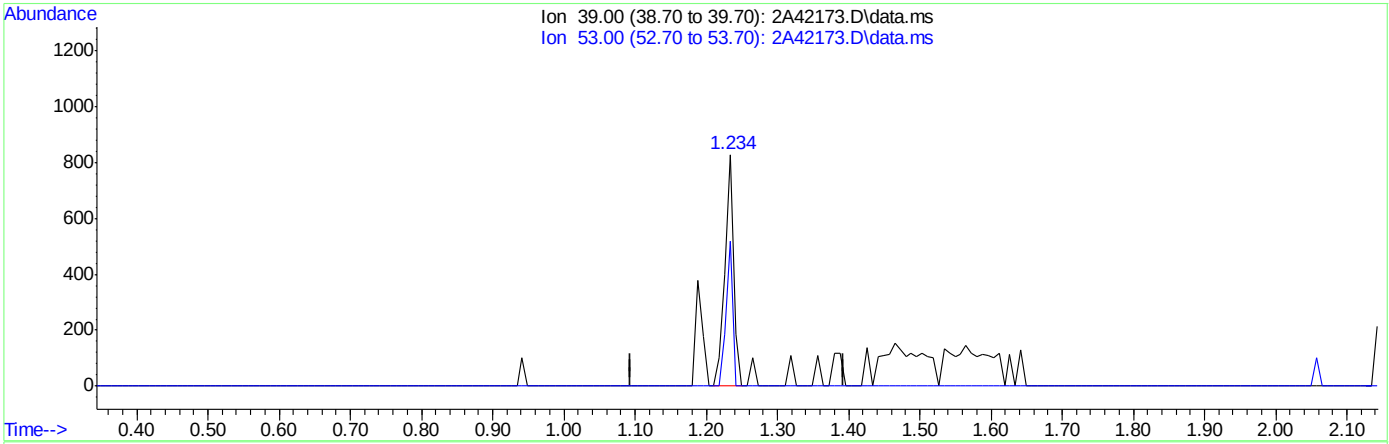
response 0

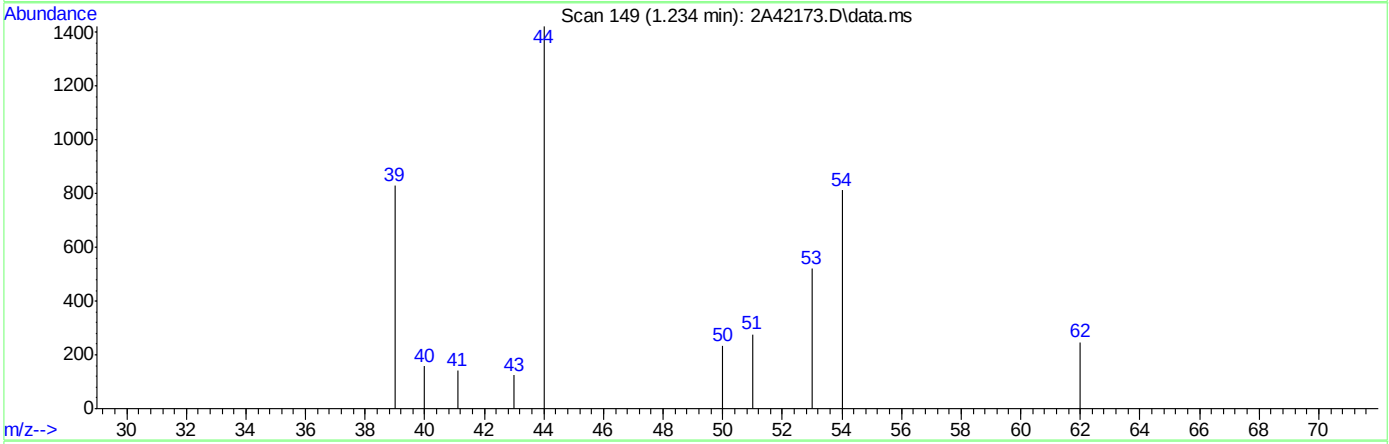
Ion	Exp%	Act%
39.00	100	0.00
53.00	64.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
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Misc : MS53004,V2A1677,,,,,
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TIC: 2A42173.D\data.ms

(4) 1,3-butadiene

1.234min (-0.010) 0.60ug/L m

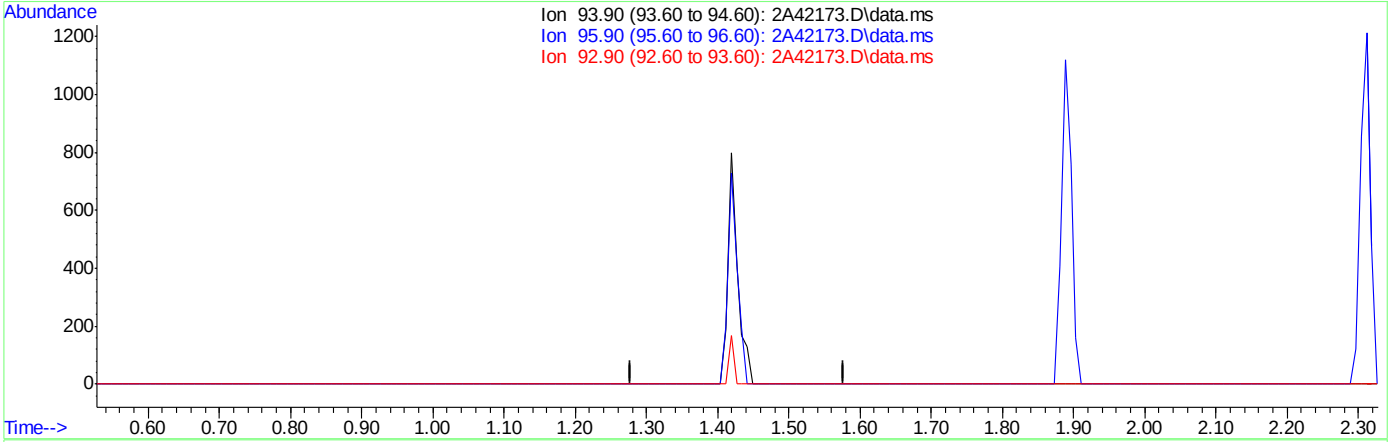
response 699

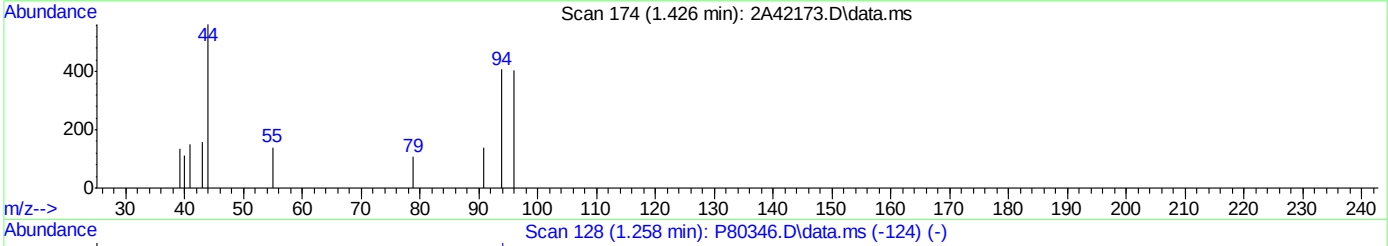
Ion	Exp%	Act%
39.00	100	100
53.00	64.70	62.73
0.00	0.00	0.00
0.00	0.00	0.00

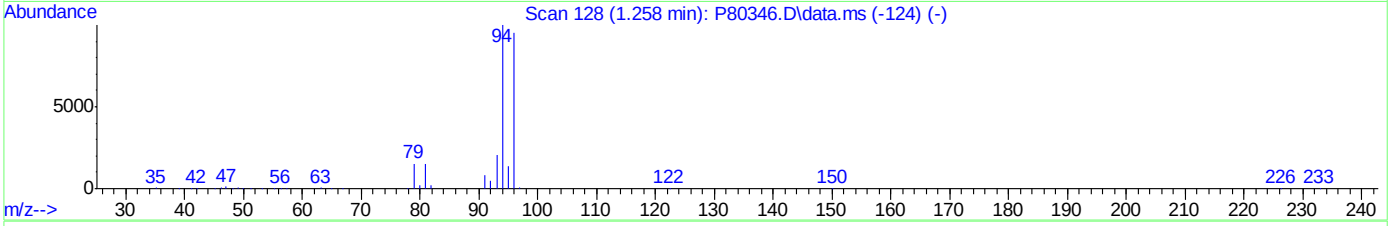
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
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Quant Title : SW-846 Method 5035A/8260B
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TIC: 2A42173.D\data.ms

(6) Bromomethane ( )

1.428min (-1.428) 0.00ug/L

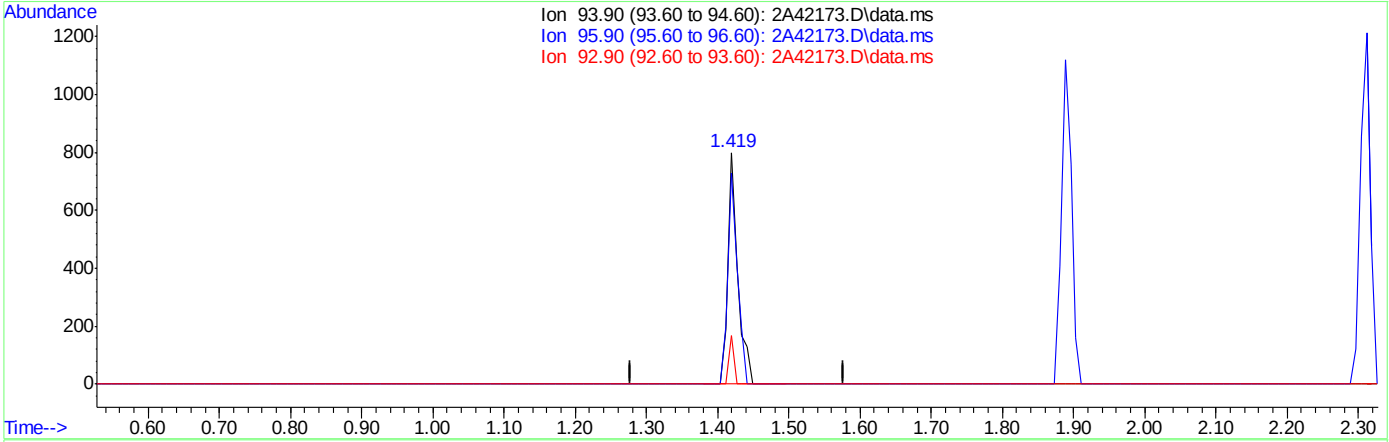
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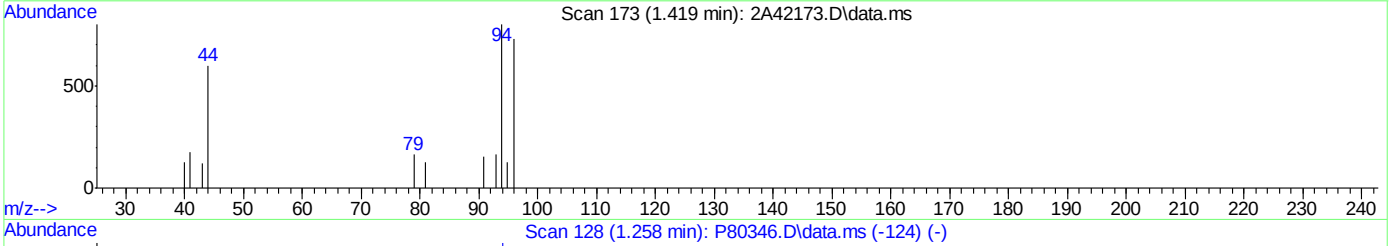
Ion	Exp%	Act%
93.90	100	0.00
95.90	94.00	0.00#
92.90	20.60	0.00
0.00	0.00	0.00

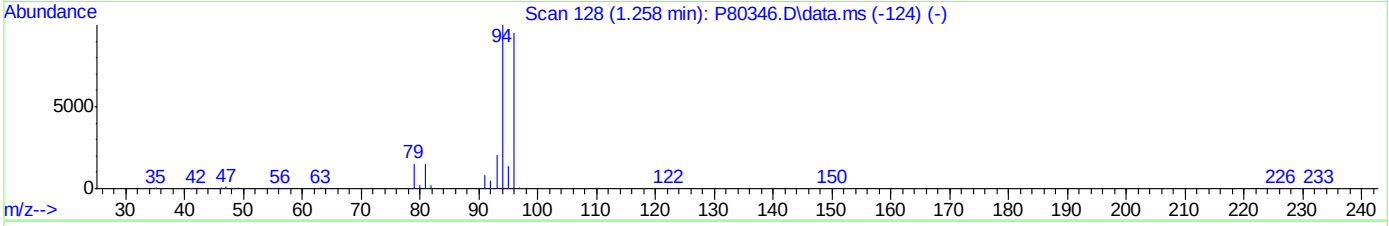
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
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TIC: 2A42173.D\data.ms

(6) Bromomethane ( )

1.419min (-0.009) 0.88ug/L m

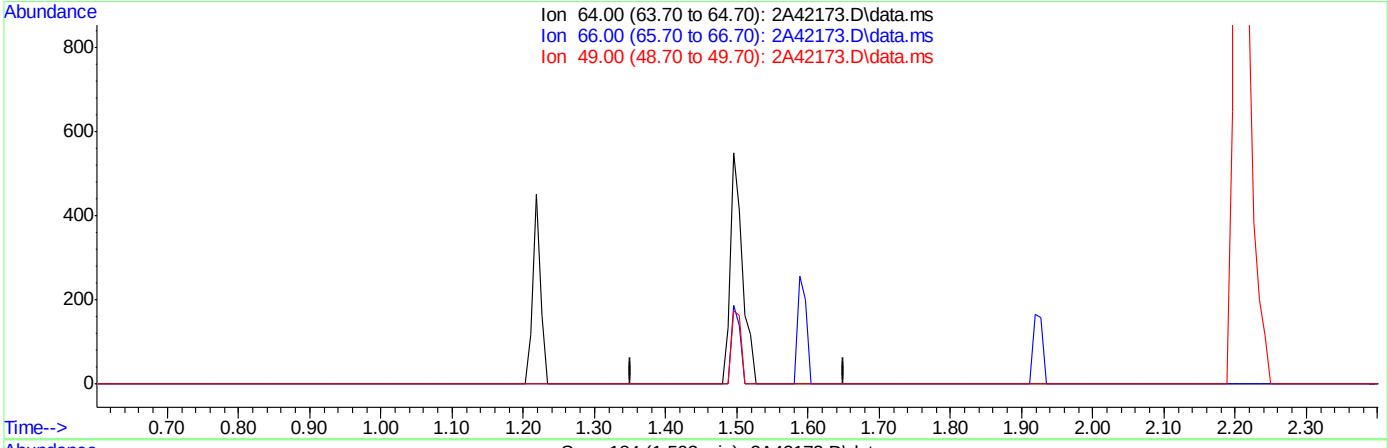
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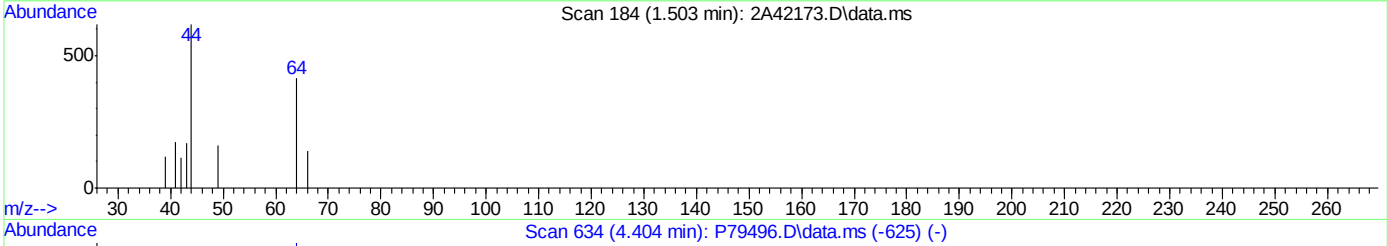
Ion	Exp%	Act%
93.90	100	100
95.90	94.00	91.00
92.90	20.60	20.88
0.00	0.00	0.00

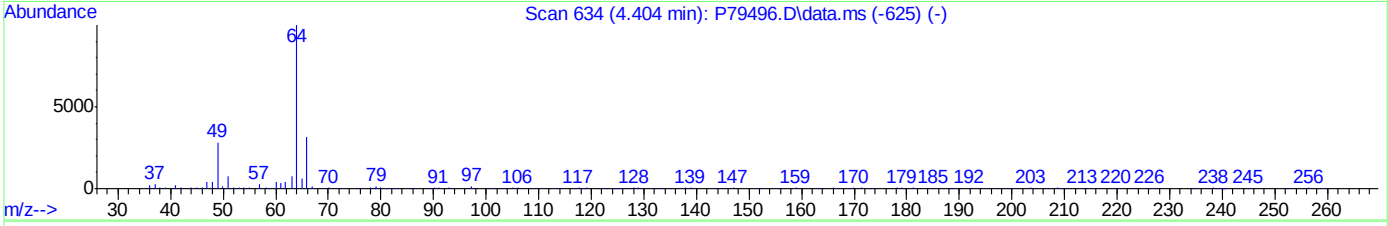
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
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TIC: 2A42173.D\data.ms

(7) Chloroethane ( )

1.501min (-1.501) 0.00ug/L

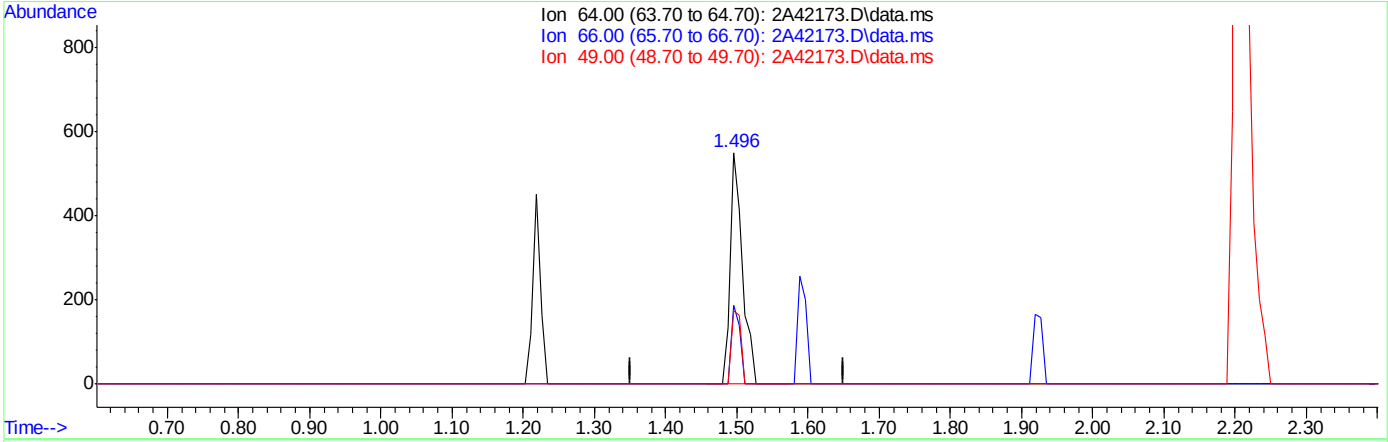
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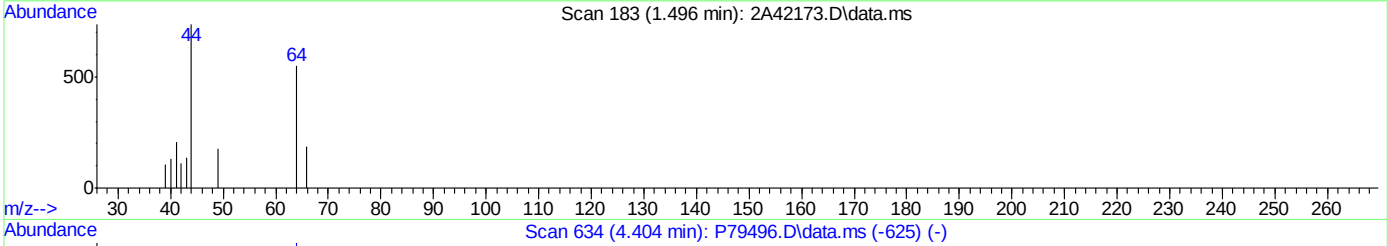
Ion	Exp%	Act%
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66.00	26.60	0.00
49.00	36.80	0.00#
0.00	0.00	0.00

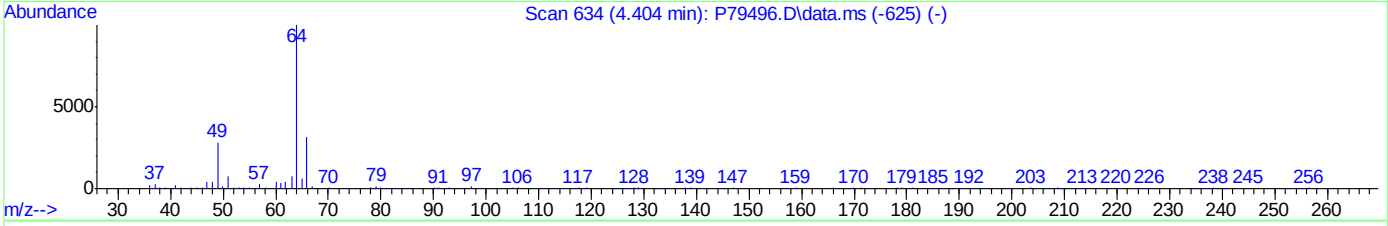
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
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Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

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TIC: 2A42173.D\data.ms

(7) Chloroethane ( )

1.496min (-0.005) 0.61ug/L m

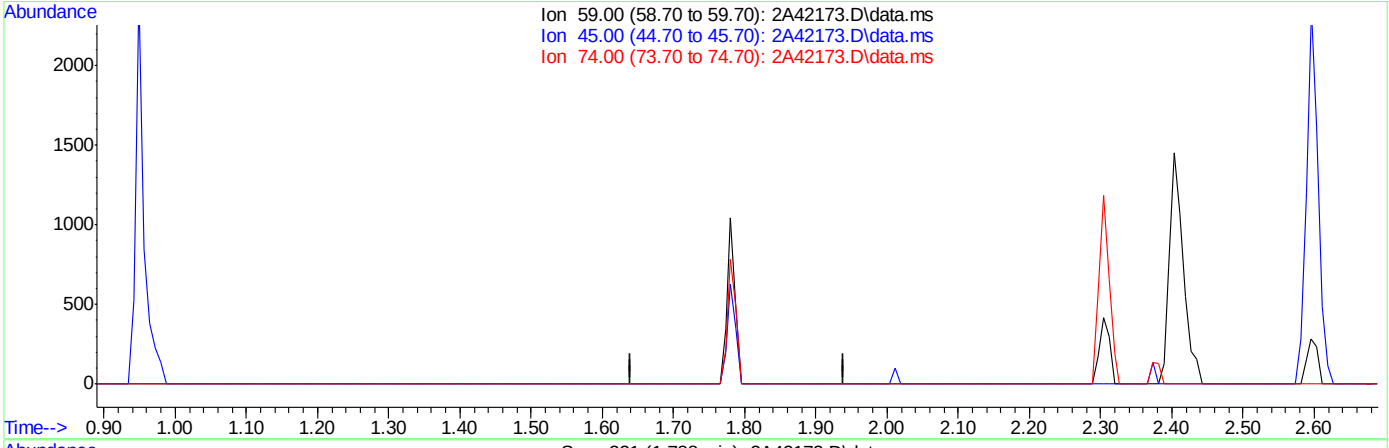
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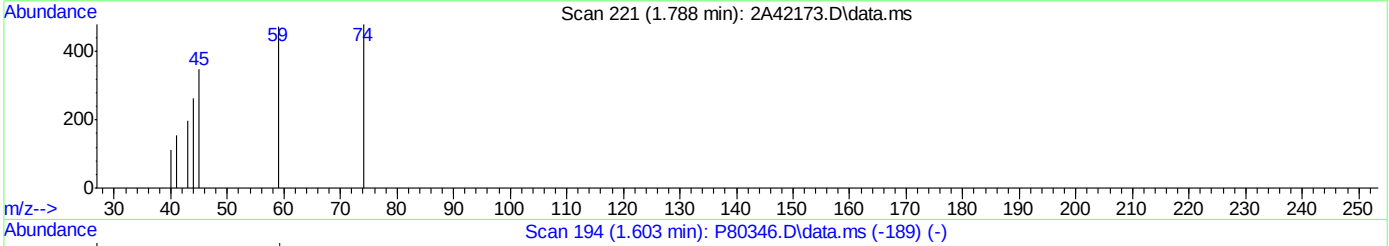
Ion	Exp%	Act%
64.00	100	100
66.00	26.60	34.00
49.00	36.80	31.82
0.00	0.00	0.00

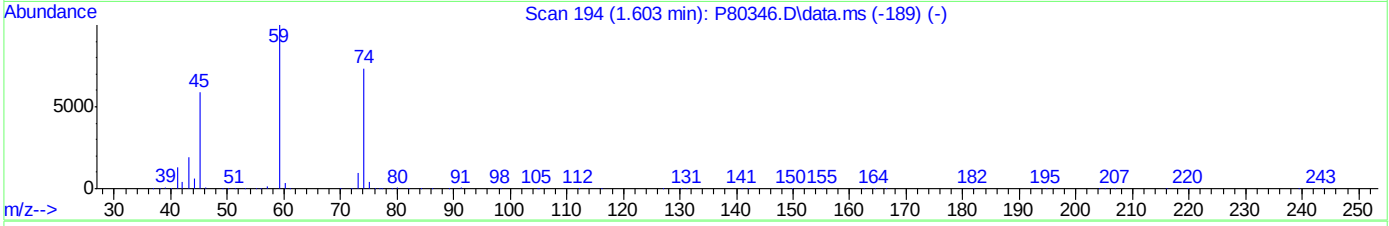
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
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TIC: 2A42173.D\data.ms

(9) Ethyl Ether

1.790min (-1.790) 0.00ug/L

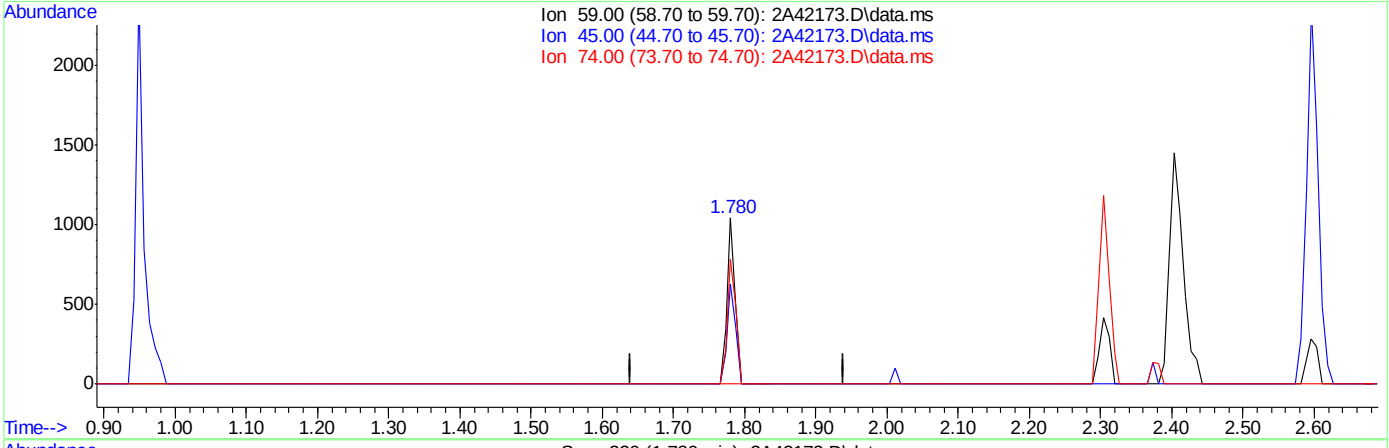
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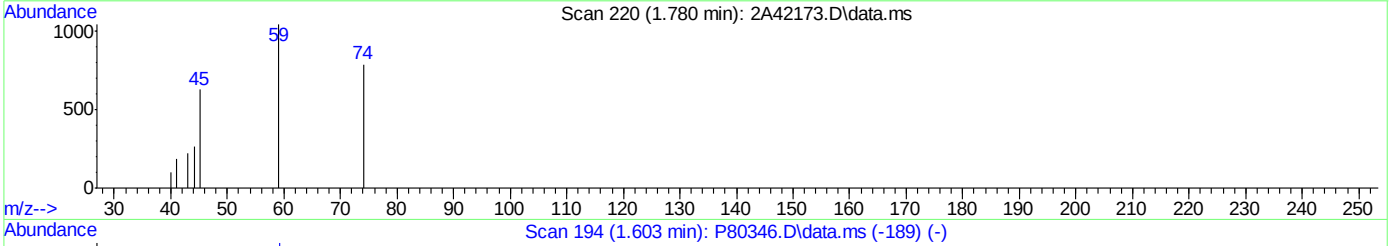
Ion	Exp%	Act%
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45.00	76.20	0.00#
74.00	61.30	0.00#
0.00	0.00	0.00

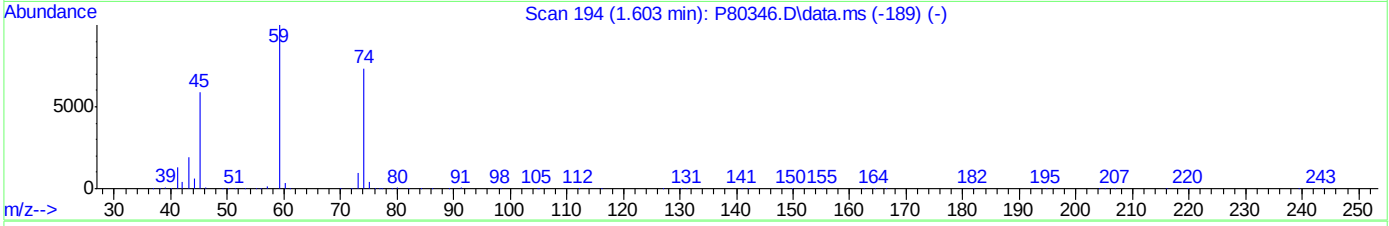
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(9) Ethyl Ether

1.780min (-0.010) 0.72ug/L m

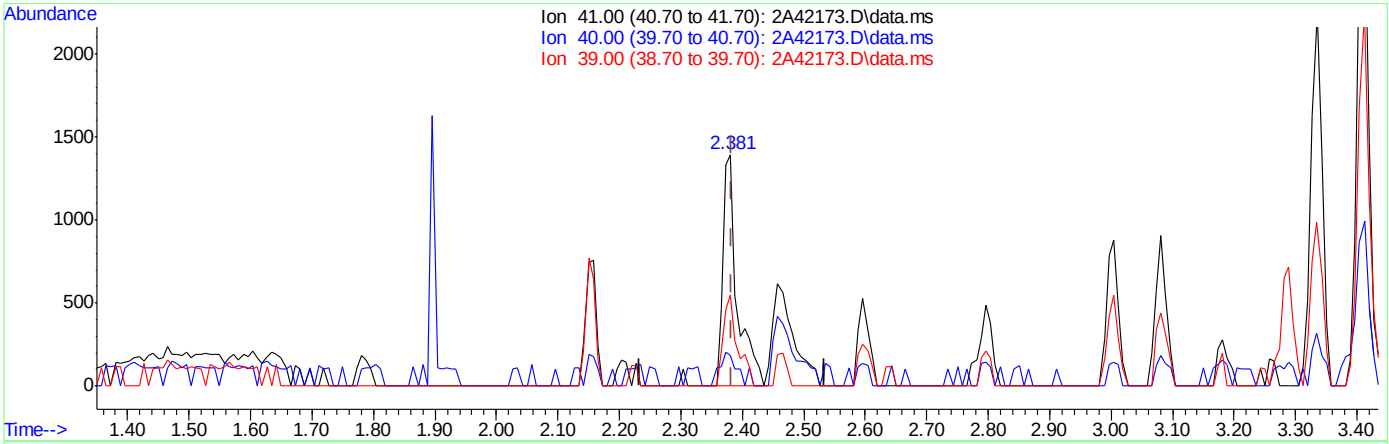
response 859

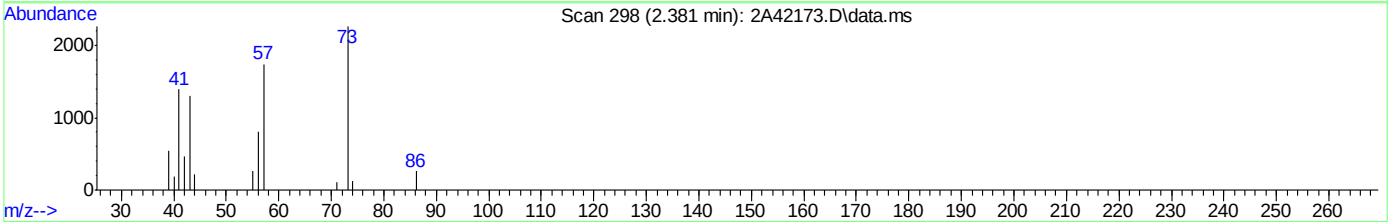
Ion	Exp%	Act%
59.00	100	100
45.00	76.20	60.13
74.00	61.30	75.60
0.00	0.00	0.00

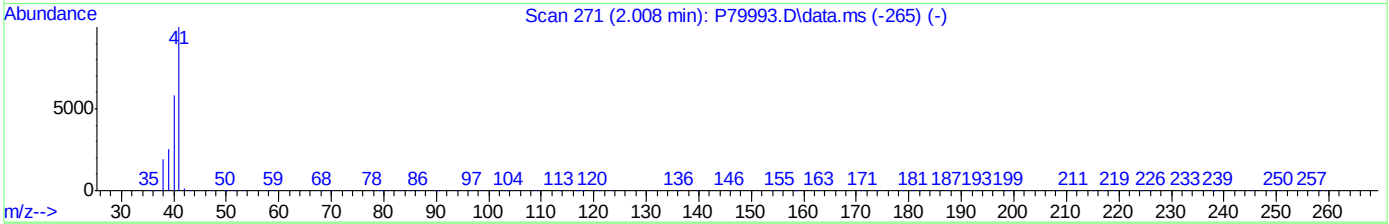
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(24) Acetonitrile

2.381min (-0.003) 9.95ug/L

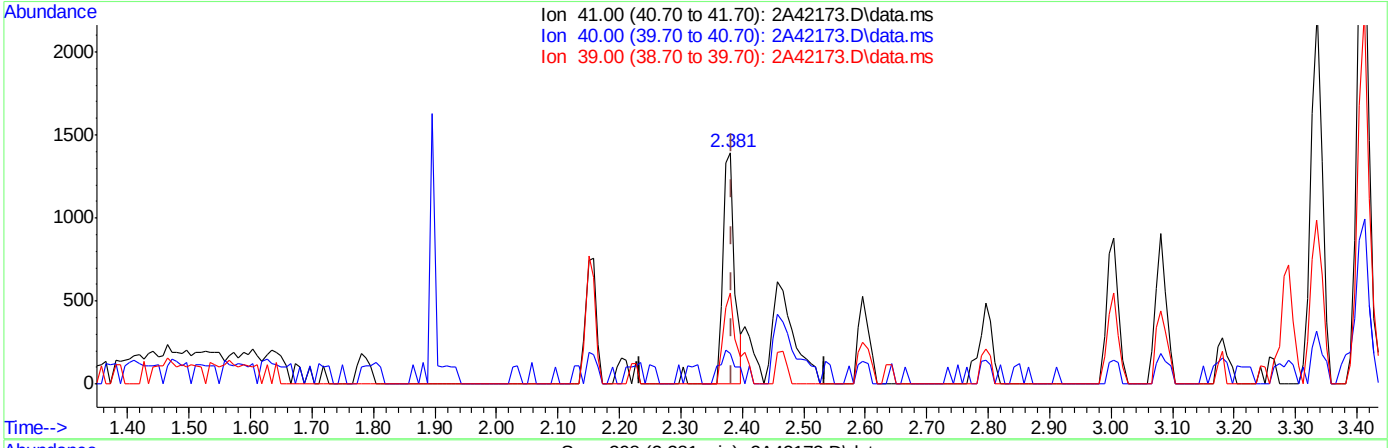
response 2292

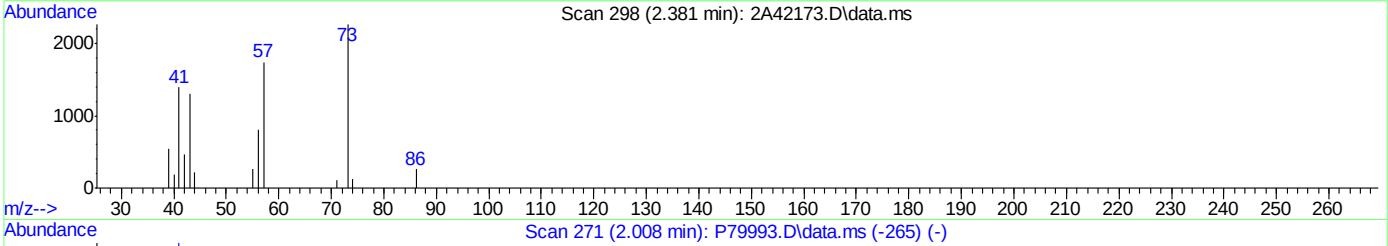
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	13.05
39.00	38.20	39.43
0.00	0.00	0.00

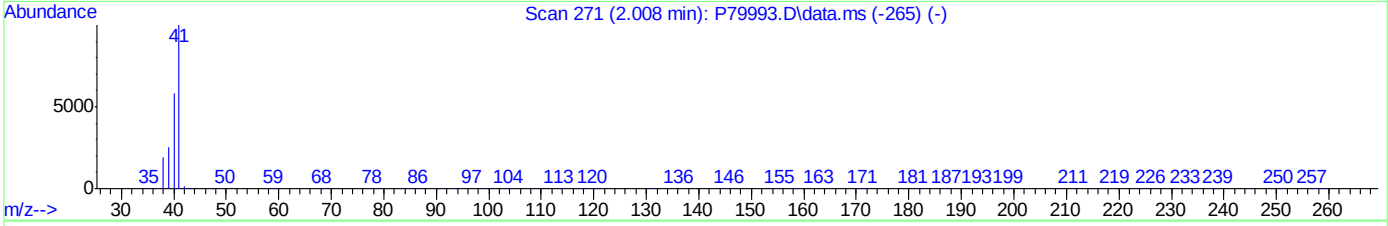
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(24) Acetonitrile

2.381min (-0.003) 8.09ug/L m

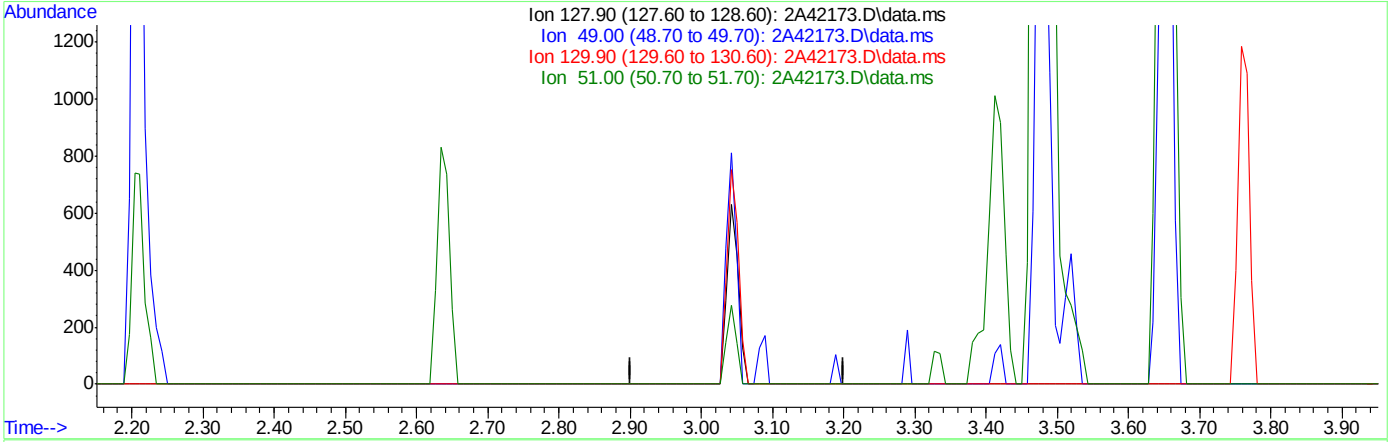
response 1864

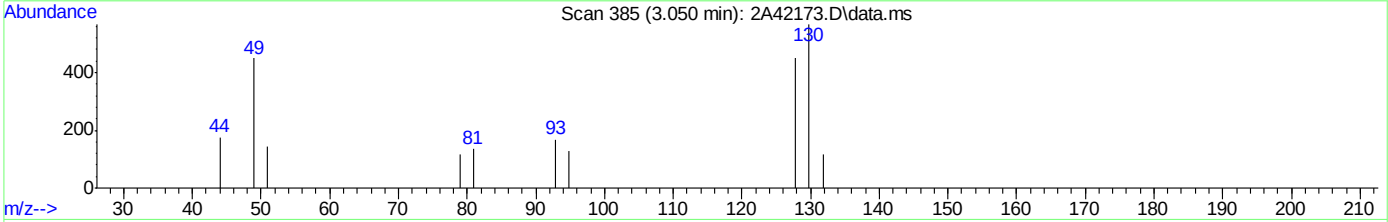
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	13.05
39.00	38.20	39.43
0.00	0.00	0.00

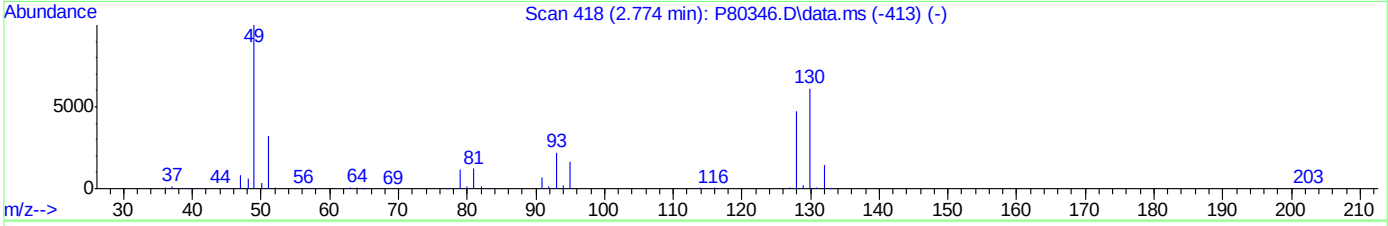
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(34) Bromochloromethane ( )

3.051min (-3.051) 0.00ug/L

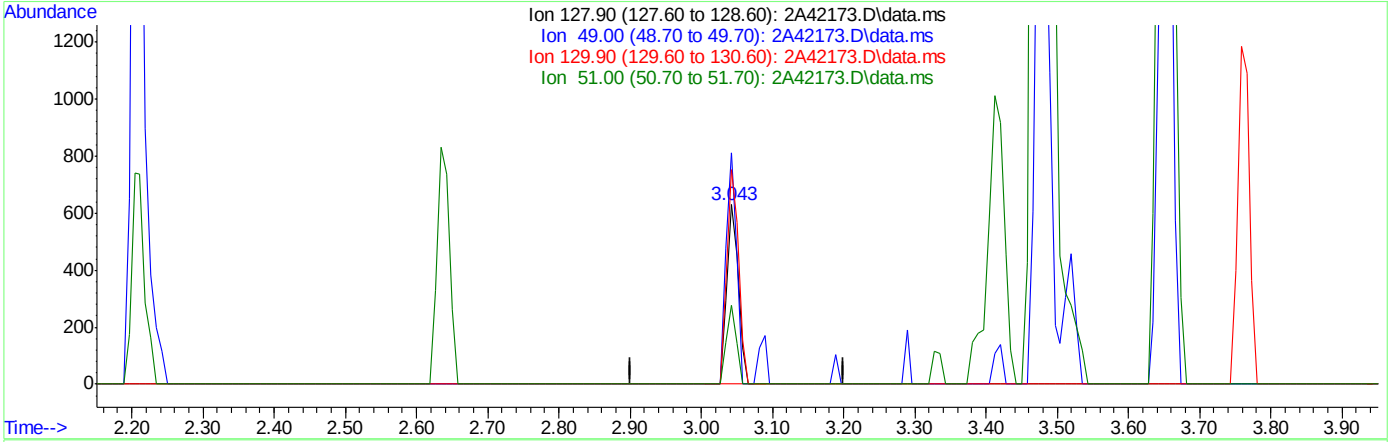
response 0

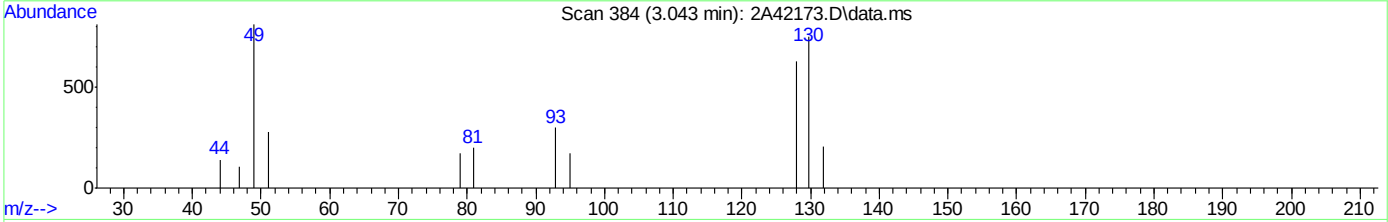
Ion	Exp%	Act%
127.90	100	0.00
49.00	148.20	0.00#
129.90	130.20	0.00#
51.00	49.00	0.00#

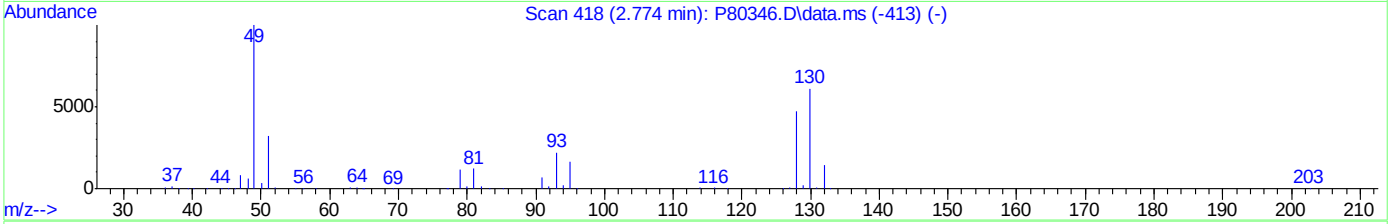
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(34) Bromochloromethane ( )

3.043min (-0.008) 1.28ug/L m

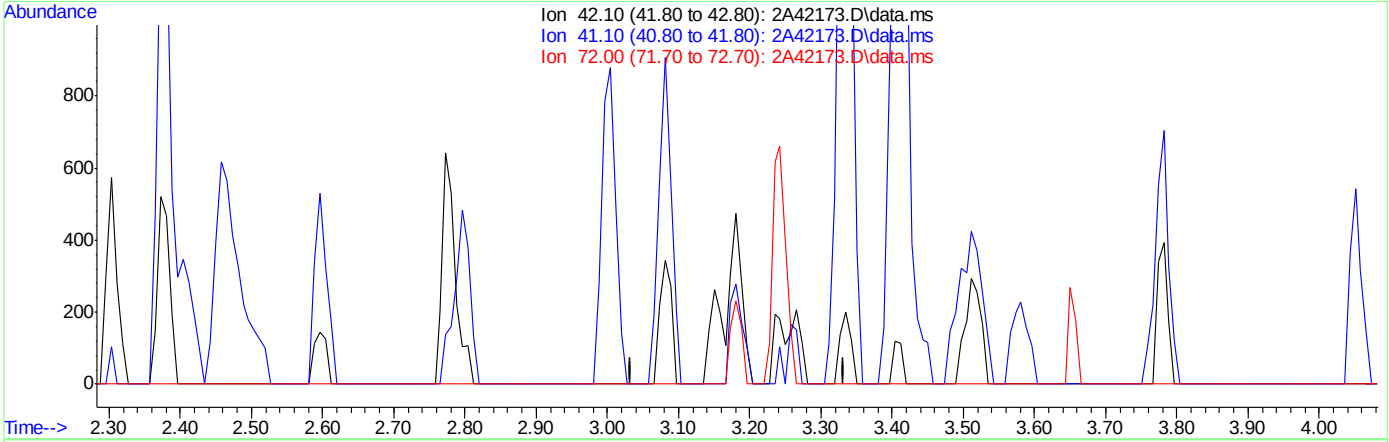
response 694

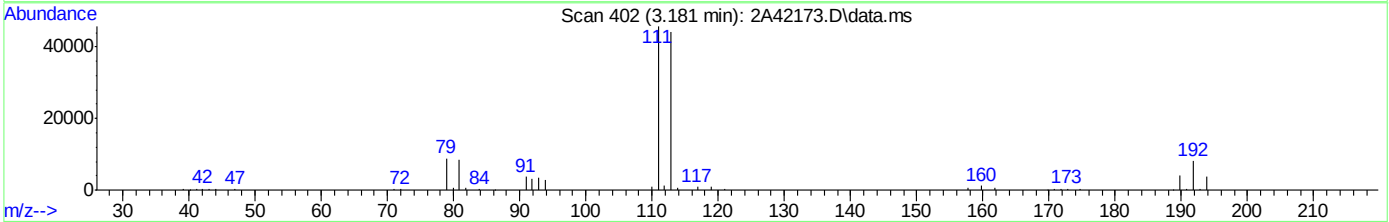
Ion	Exp%	Act%
127.90	100	100
49.00	148.20	129.05
129.90	130.20	119.68
51.00	49.00	44.13

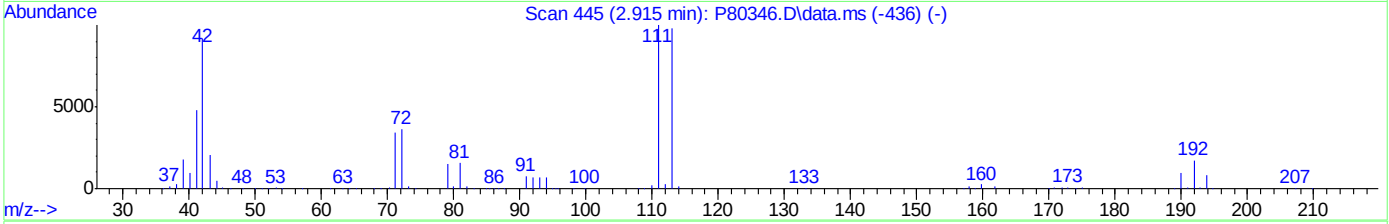
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(38) Tetrahydrofuran

3.183min (-3.183) 0.00ug/L

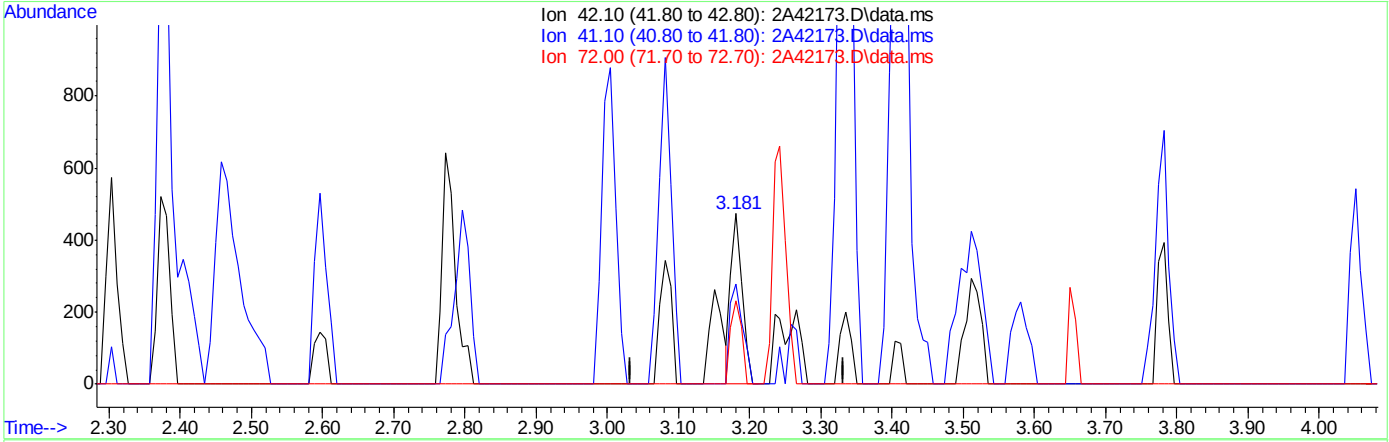
response 0

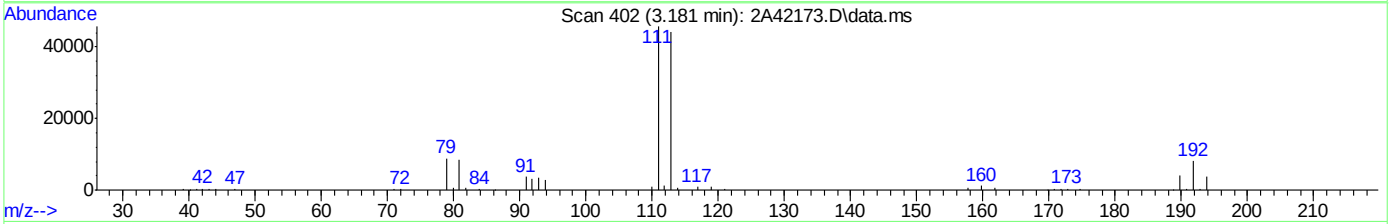
Ion	Exp%	Act%
42.10	100	0.00
41.10	55.00	0.00#
72.00	29.50	0.00#
0.00	0.00	0.00

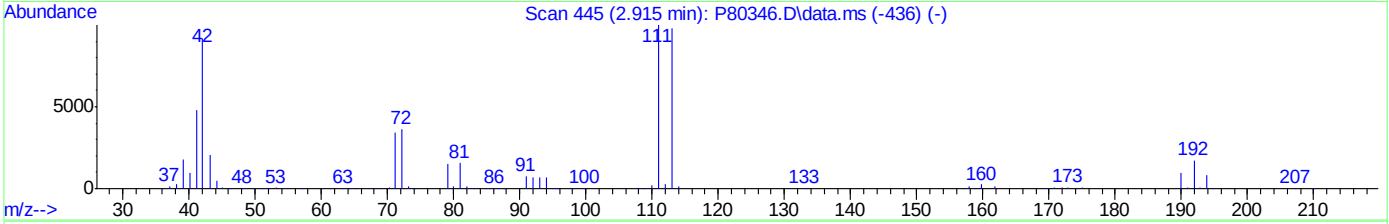
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(38) Tetrahydrofuran

3.181min (-0.002) 0.71ug/L m

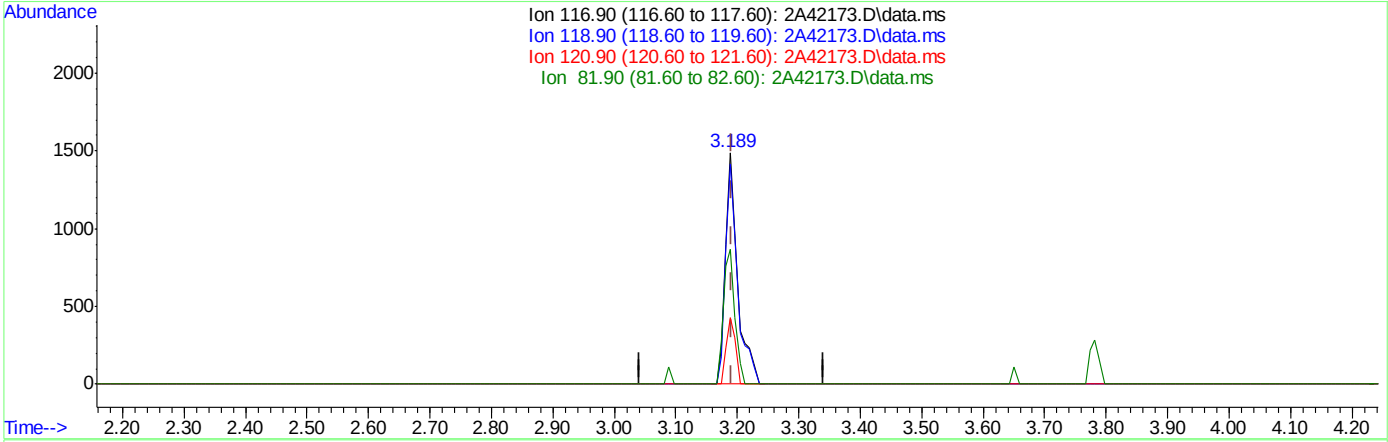
response 537

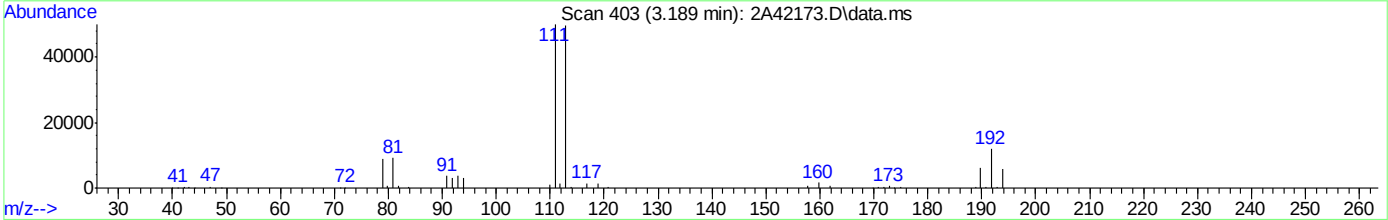
Ion	Exp%	Act%
42.10	100	100
41.10	55.00	58.99
72.00	29.50	49.26
0.00	0.00	0.00

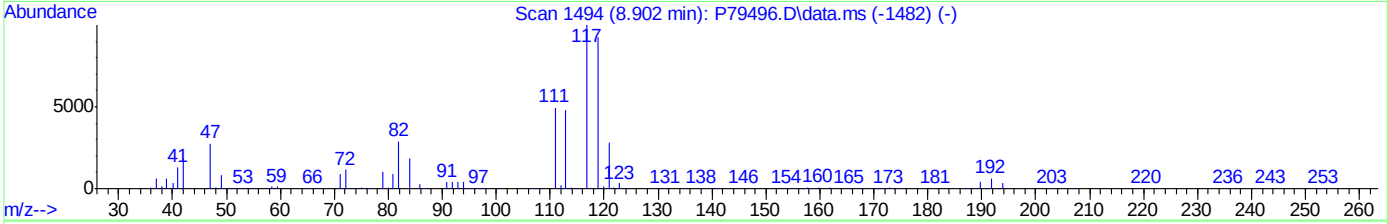
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(40) Carbon Tetrachloride ( )

3.189min (-0.002) 1.32ug/L

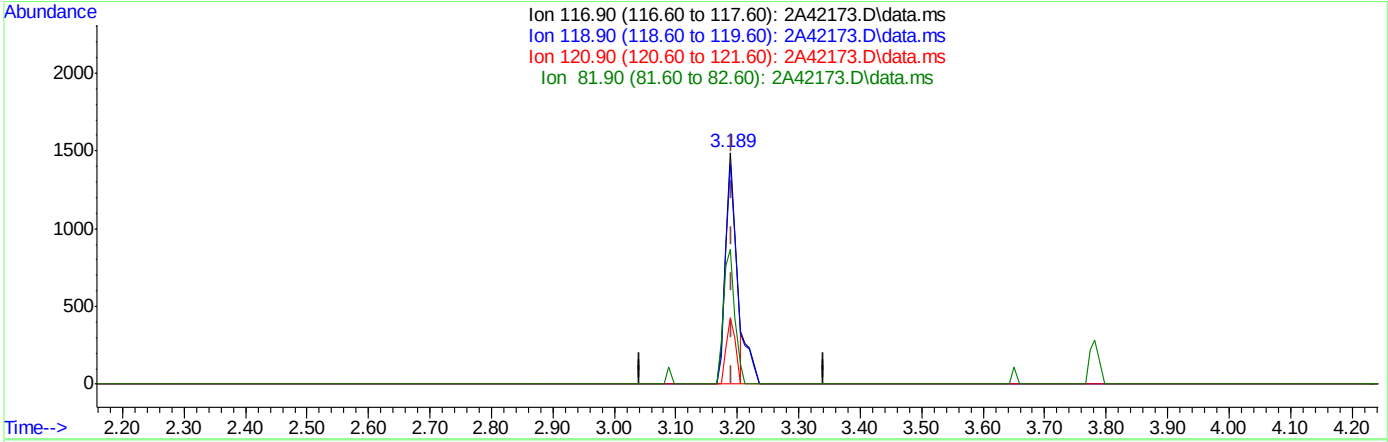
response 2102

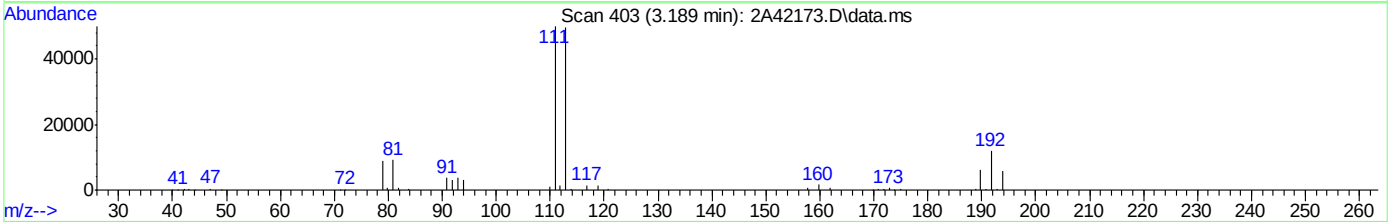
Ion	Exp%	Act%
116.90	100	100
118.90	93.10	95.17
120.90	31.00	28.86
81.90	24.60	58.12#

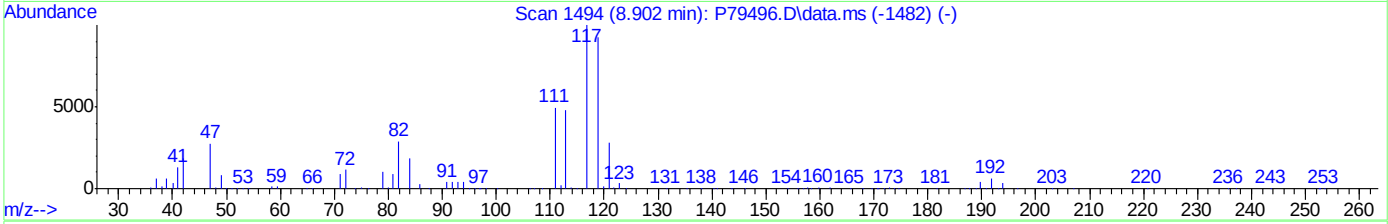
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(40) Carbon Tetrachloride ( )

3.189min (-0.002) 1.14ug/L m

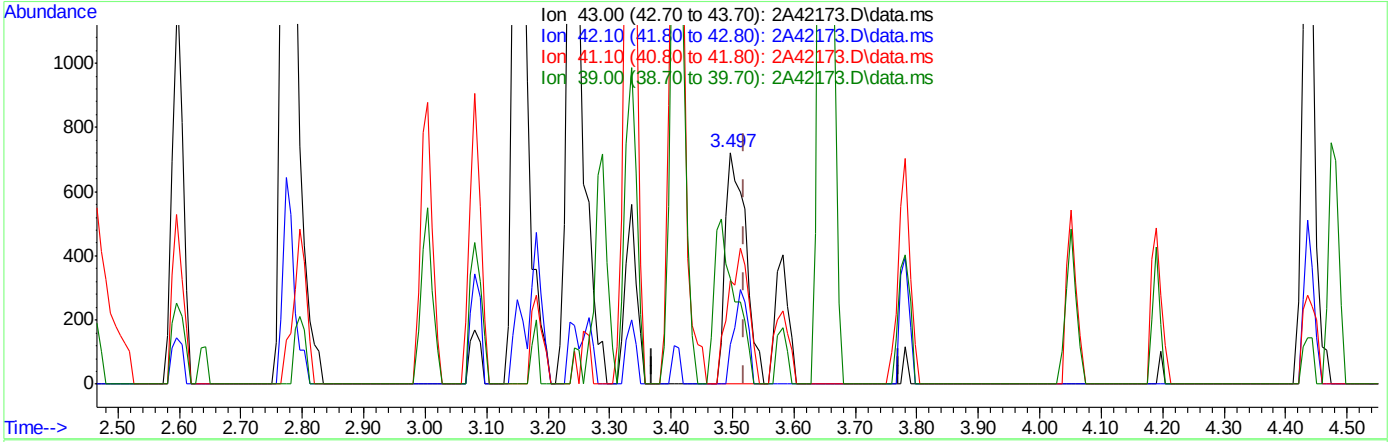
response 1813

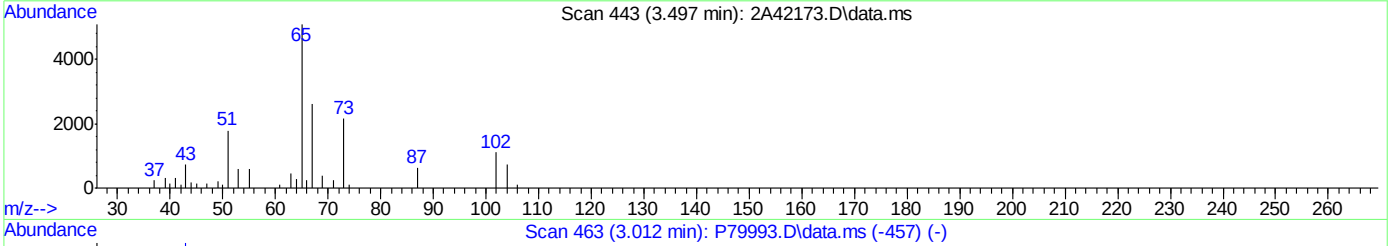
Ion	Exp%	Act%
116.90	100	100
118.90	93.10	95.17
120.90	31.00	28.86
81.90	24.60	58.12#

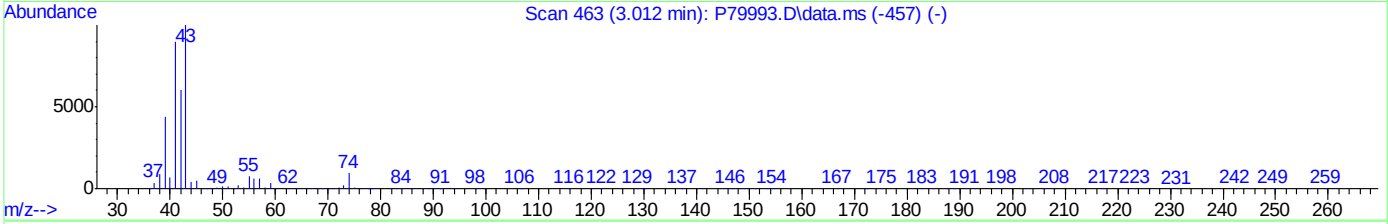
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(51) Isobutyl Alcohol

3.497min (-0.023) 10.23ug/L

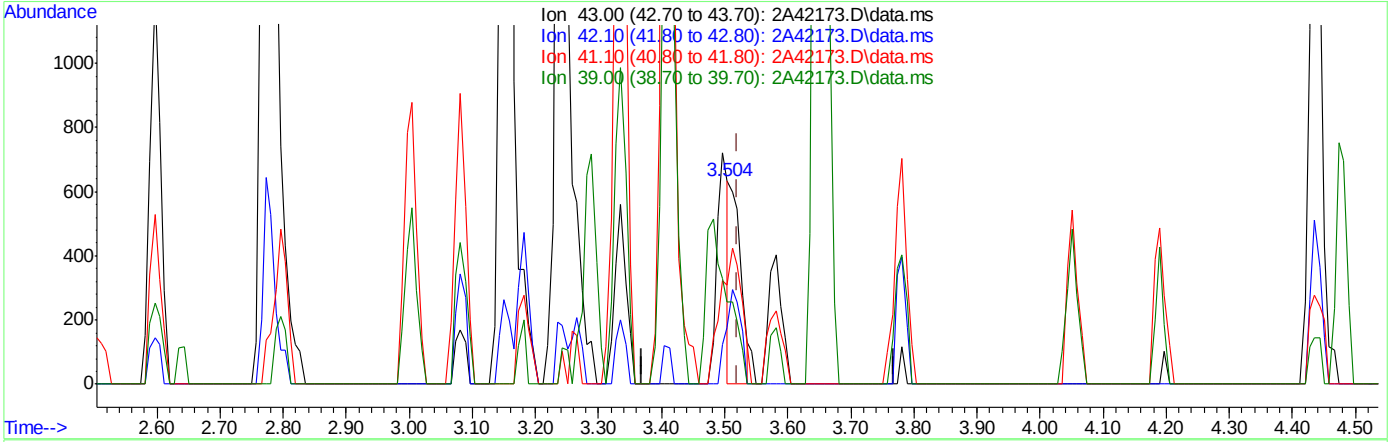
response 1692

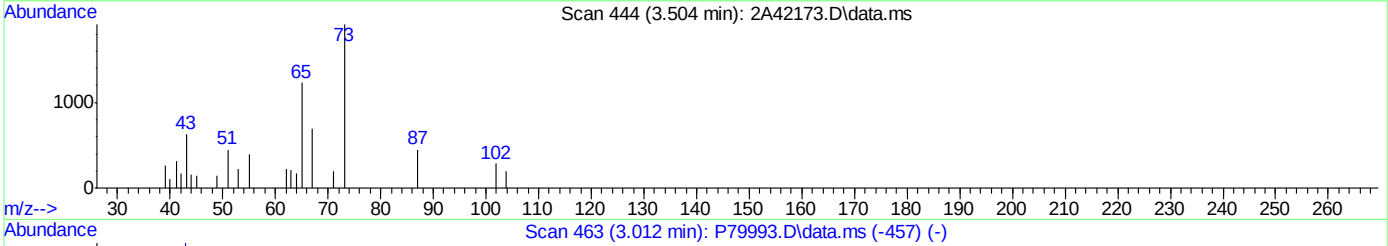
Ion	Exp%	Act%
43.00	100	100
42.10	57.60	16.90
41.10	77.70	44.74
39.00	33.60	45.71

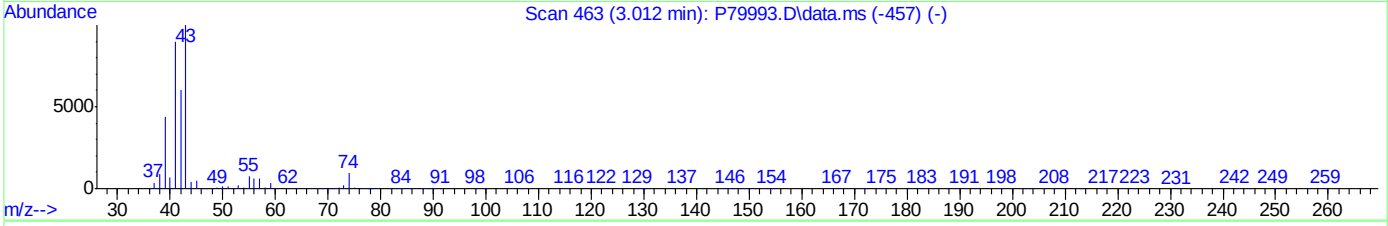
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(51) Isobutyl Alcohol

3.504min (-0.016) 4.33ug/L m

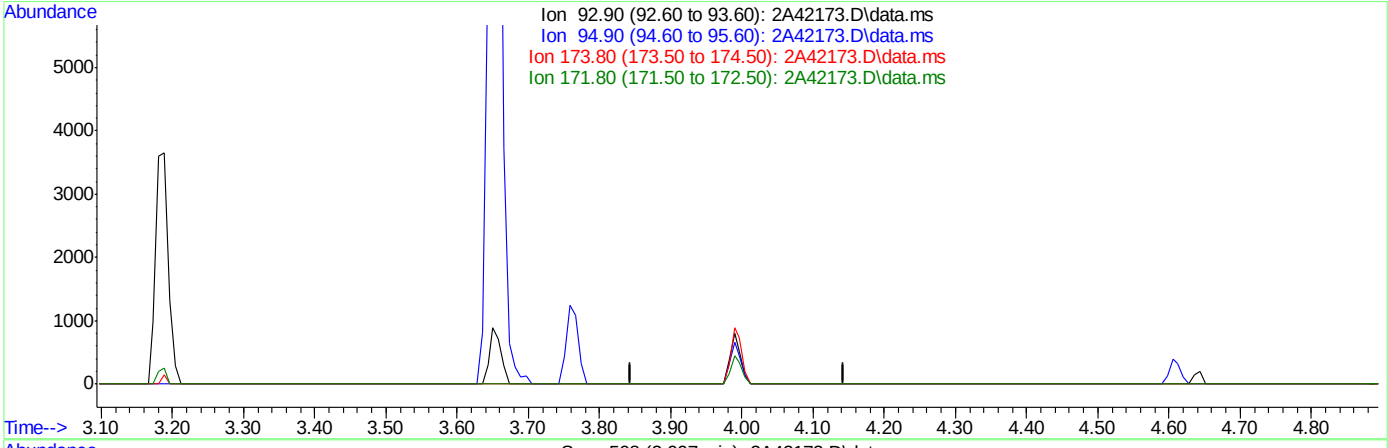
response 718

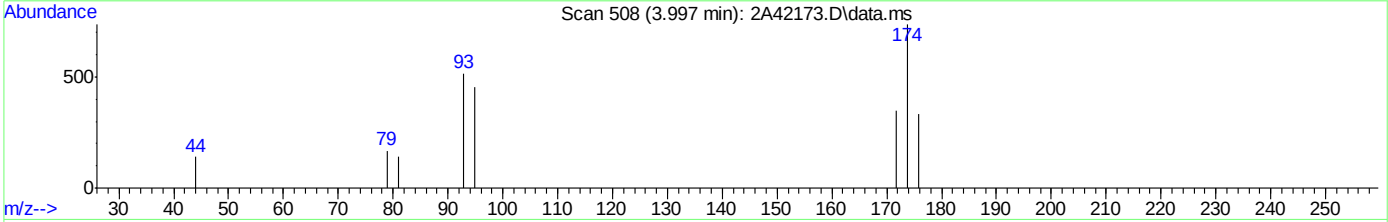
Ion	Exp%	Act%
43.00	100	100
42.10	57.60	27.69
41.10	77.70	48.89
39.00	33.60	40.66

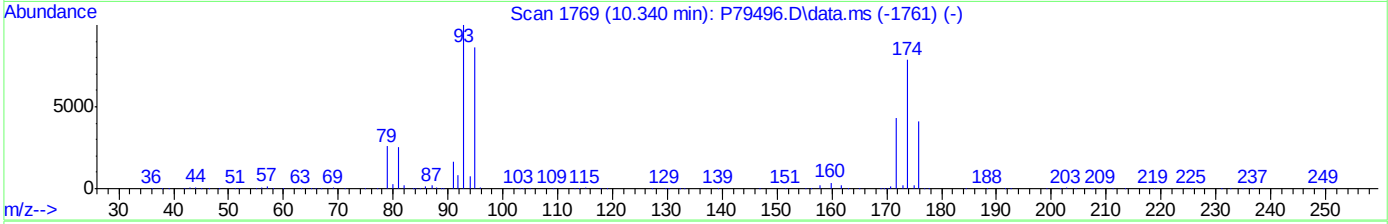
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(55) Dibromomethane

3.994min (-3.994) 0.00ug/L

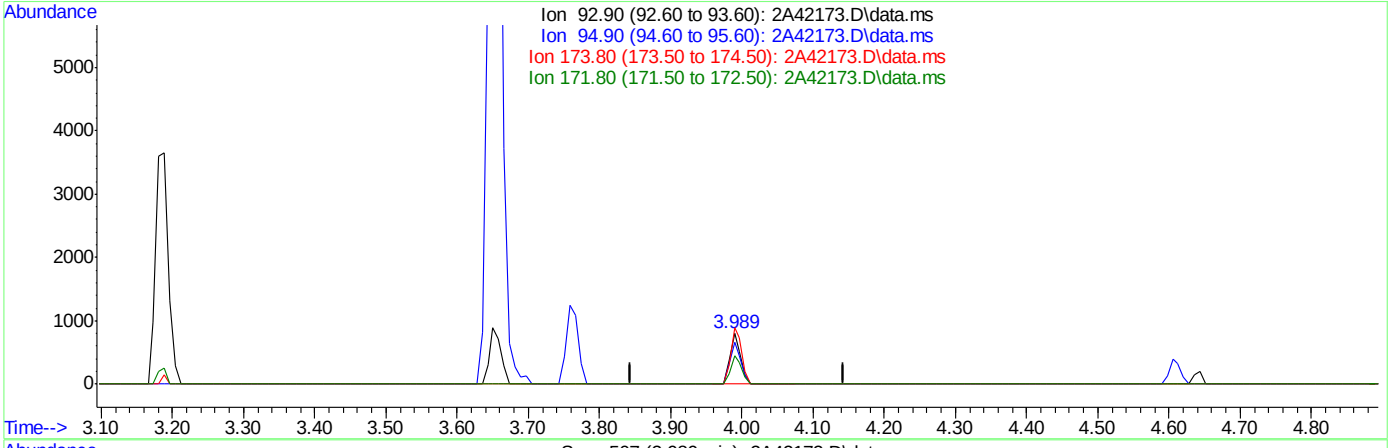
response 0

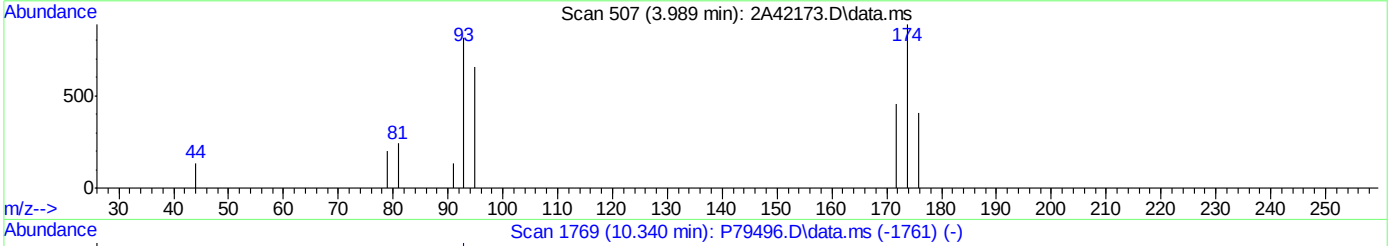
Ion	Exp%	Act%
92.90	100	0.00
94.90	85.00	0.00#
173.80	100.90	0.00#
171.80	53.70	0.00#

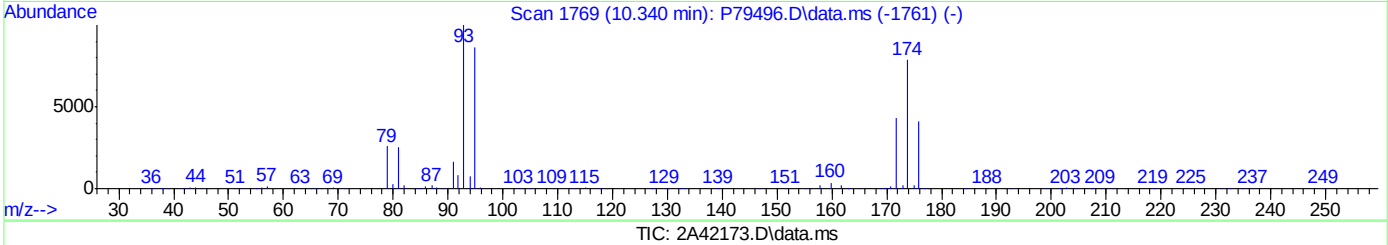
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(55) Dibromomethane

3.989min (-0.005) 1.03ug/L m

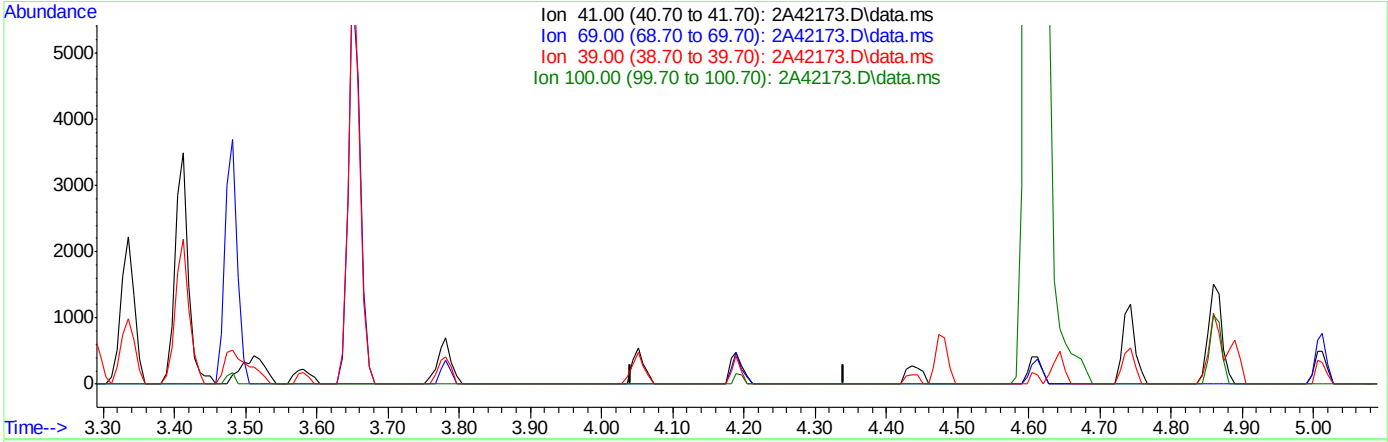
response 859

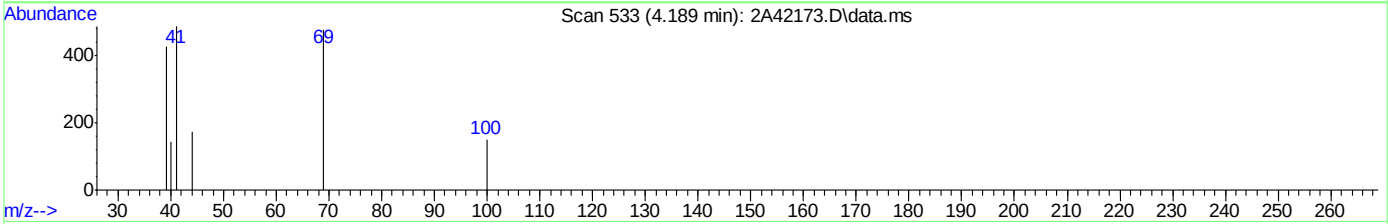
Ion	Exp%	Act%
92.90	100	100
94.90	85.00	81.11
173.80	100.90	109.26
171.80	53.70	55.80

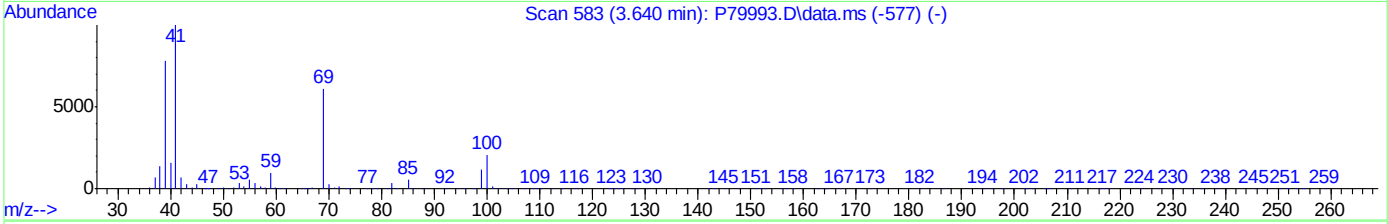
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(58) Methyl methacrylate

4.191min (-4.191) 0.00ug/L

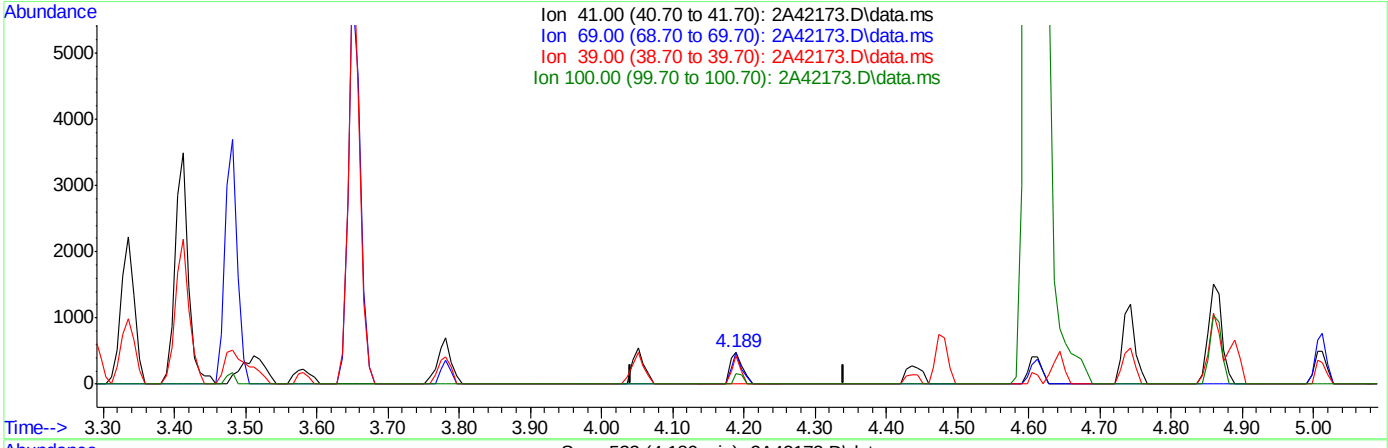
response 0

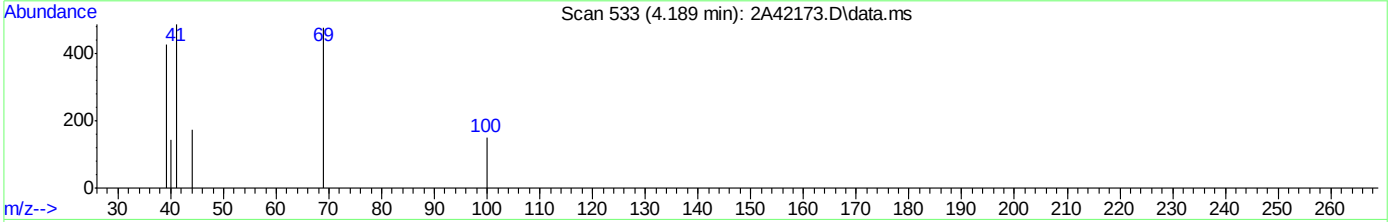
Ion	Exp%	Act%
41.00	100	0.00
69.00	70.70	0.00#
39.00	68.70	0.00#
100.00	26.40	0.00#

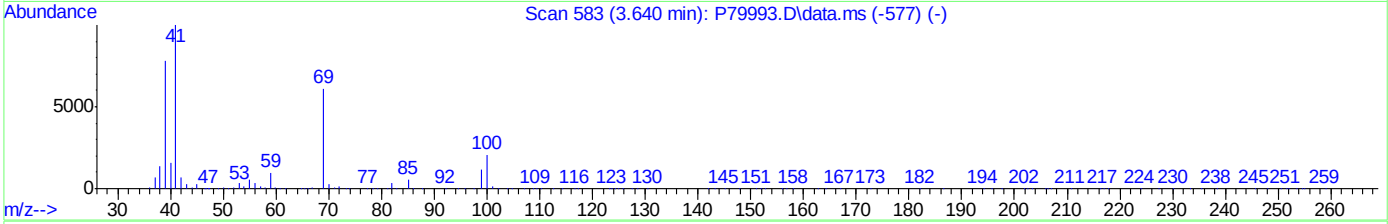
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(58) Methyl methacrylate

4.189min (-0.002) 0.40ug/L m

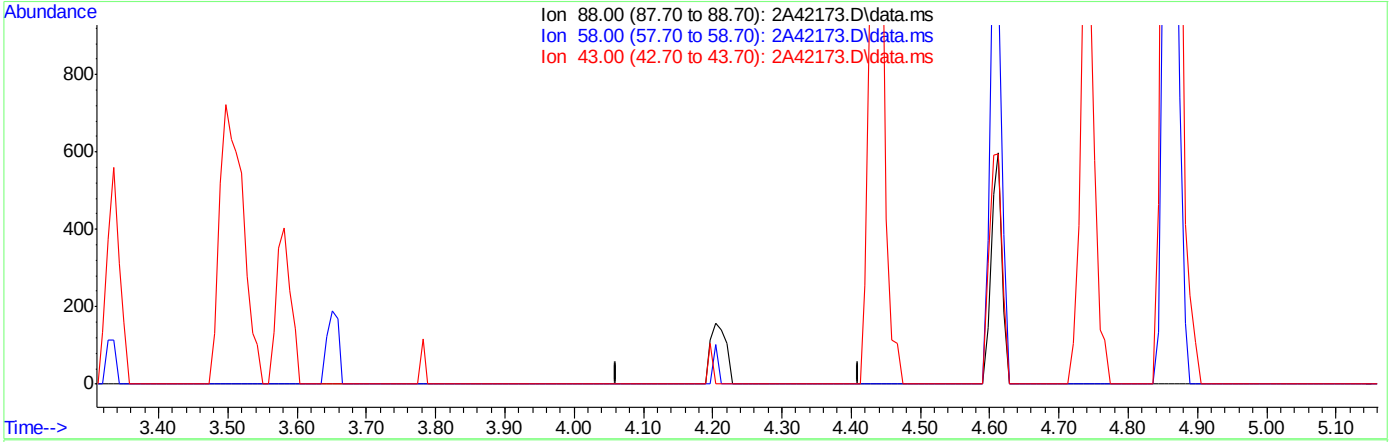
response 589

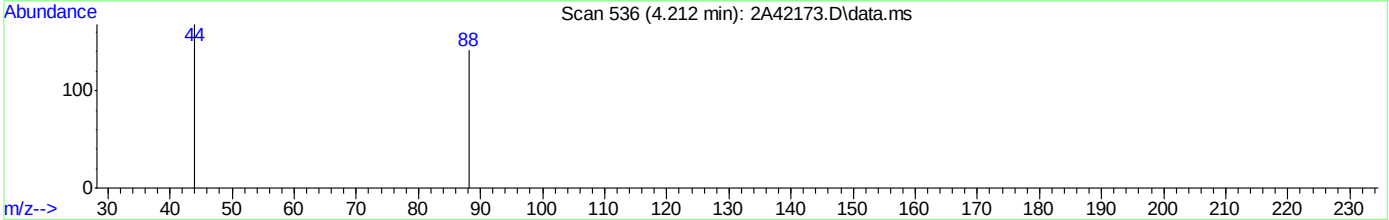
Ion	Exp%	Act%
41.00	100	100
69.00	70.70	98.16#
39.00	68.70	87.50
100.00	26.40	31.15

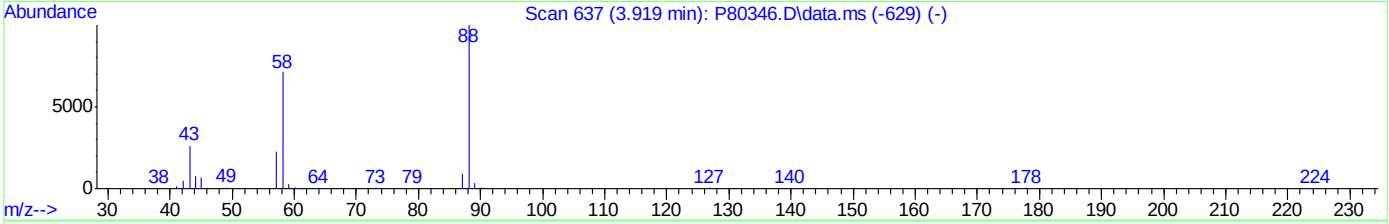
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(59) 1,4-Dioxane

4.211min (-4.211) 0.00ug/L

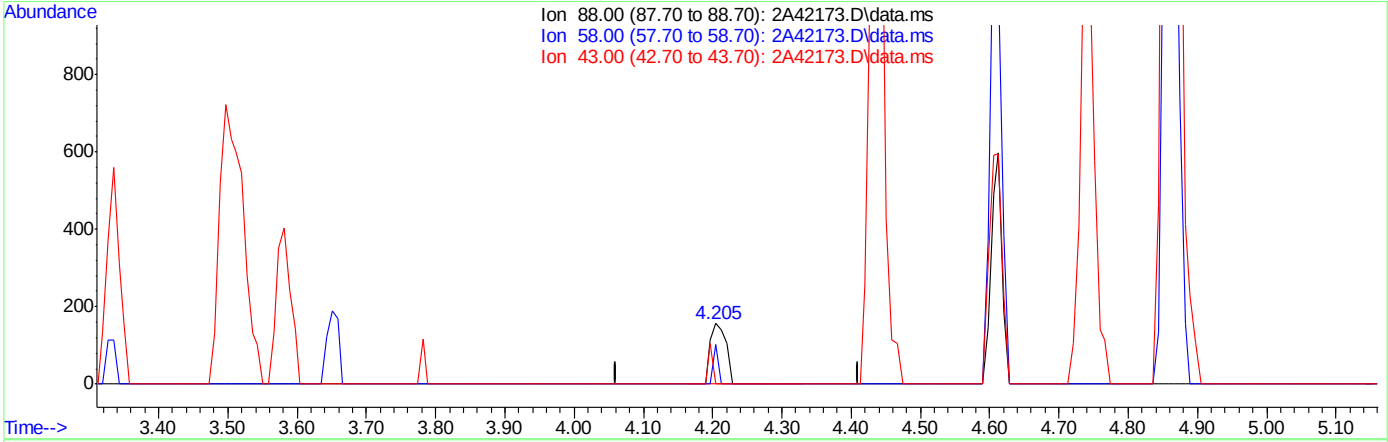
response 0

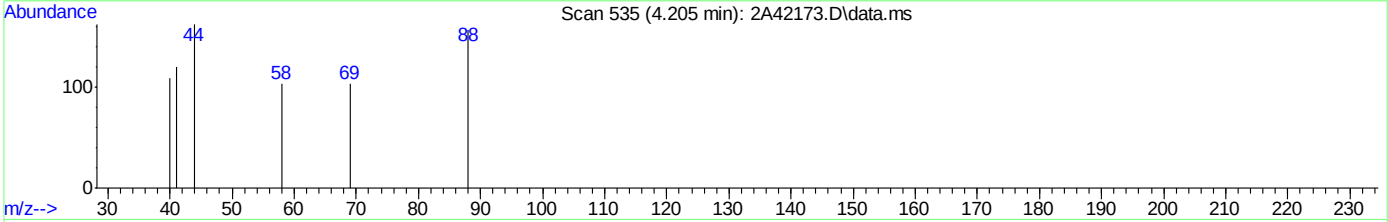
Ion	Exp%	Act%
88.00	100	0.00
58.00	70.80	0.00#
43.00	36.40	0.00#
0.00	0.00	0.00

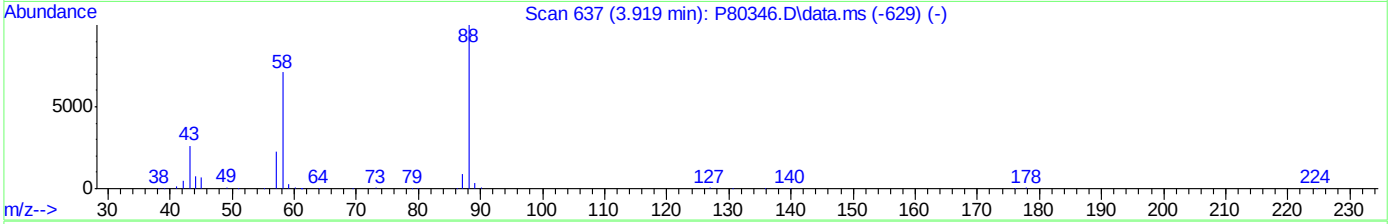
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(59) 1,4-Dioxane

4.205min (-0.006) 11.23ug/L m

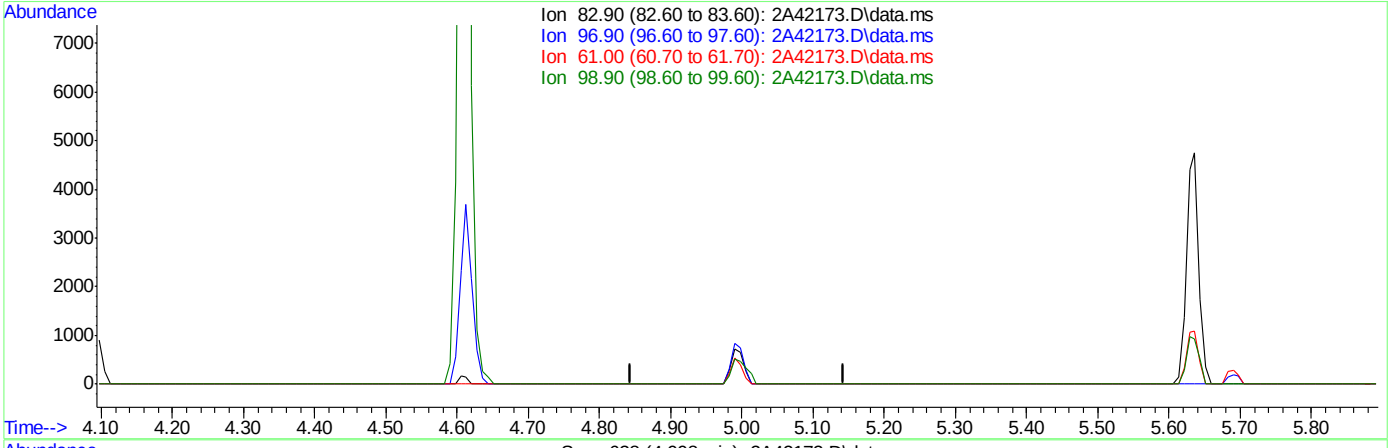
response 239

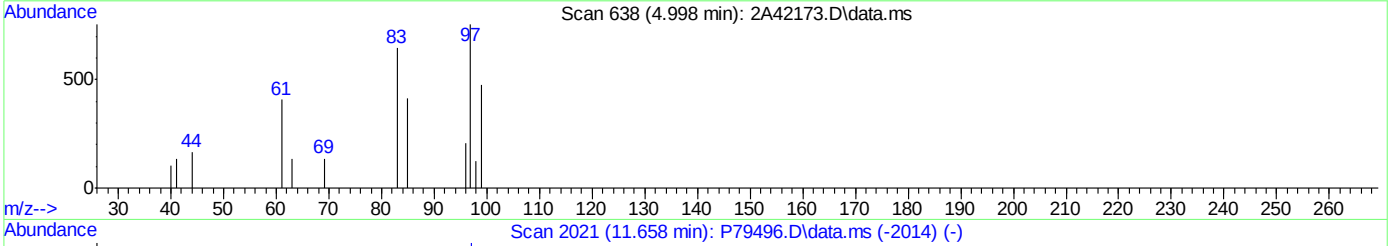
Ion	Exp%	Act%
88.00	100	100
58.00	70.80	65.61
43.00	36.40	0.00#
0.00	0.00	0.00

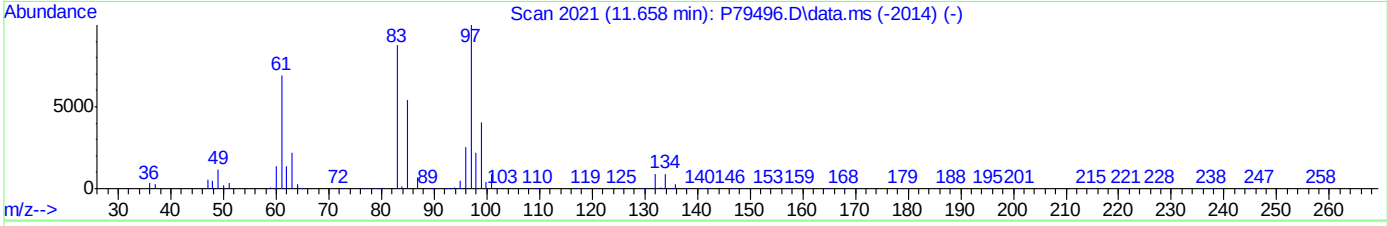
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(70) 1,1,2-Trichloroethane ( )

4.994min (-4.994) 0.00ug/L

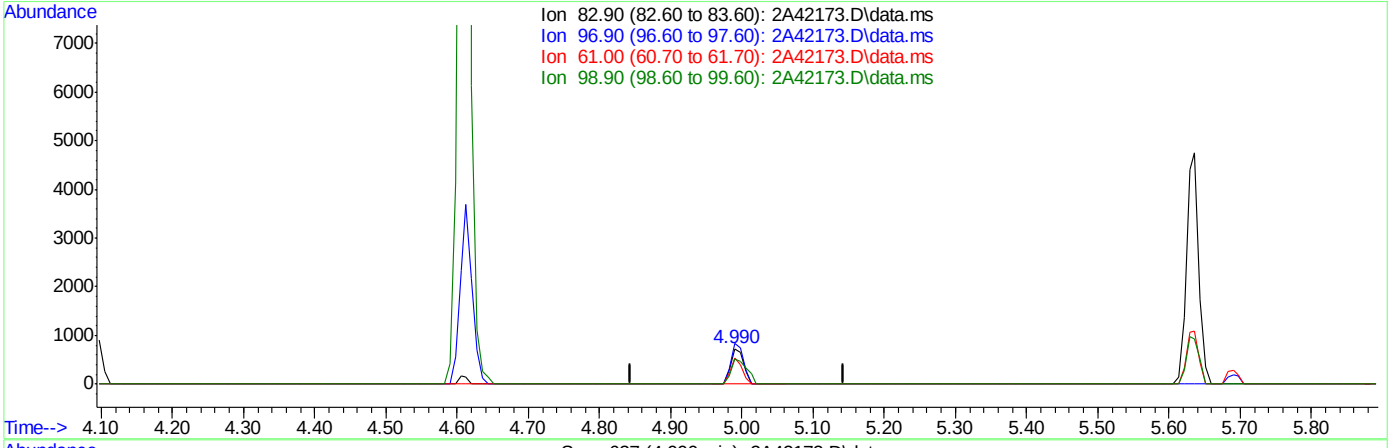
response 0

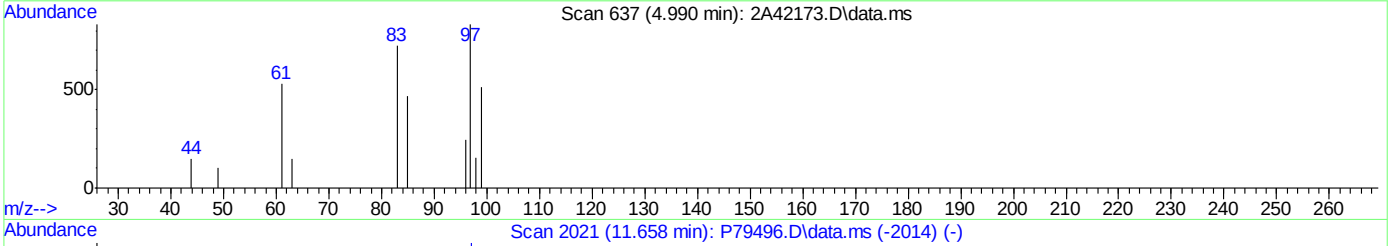
Ion	Exp%	Act%
82.90	100	0.00
96.90	123.20	0.00#
61.00	76.90	0.00#
98.90	80.40	0.00#

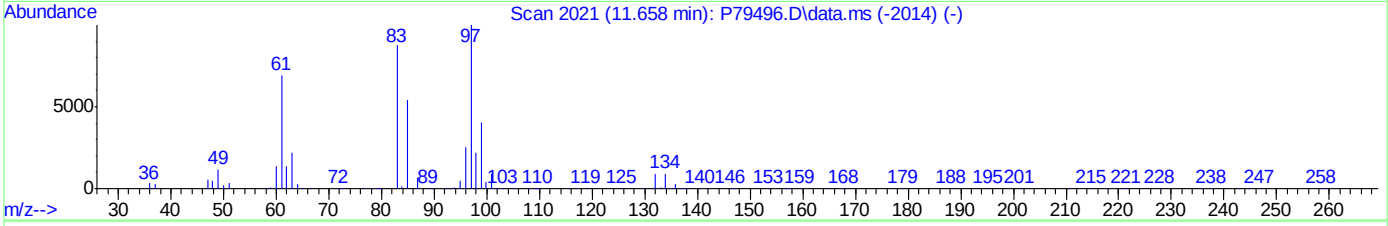
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(70) 1,1,2-Trichloroethane ( )

4.990min (-0.004) 0.95ug/L m

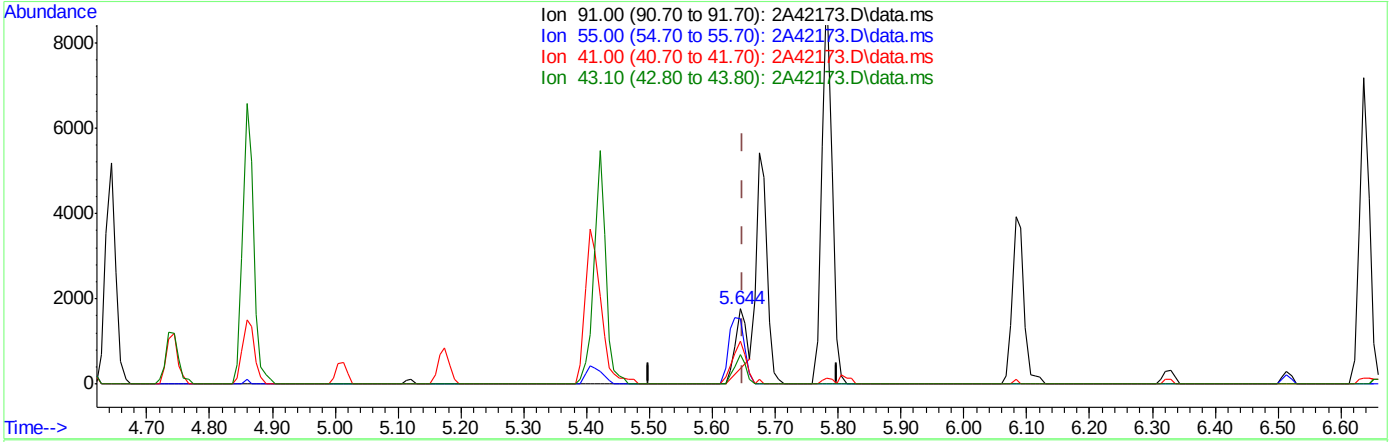
response 878

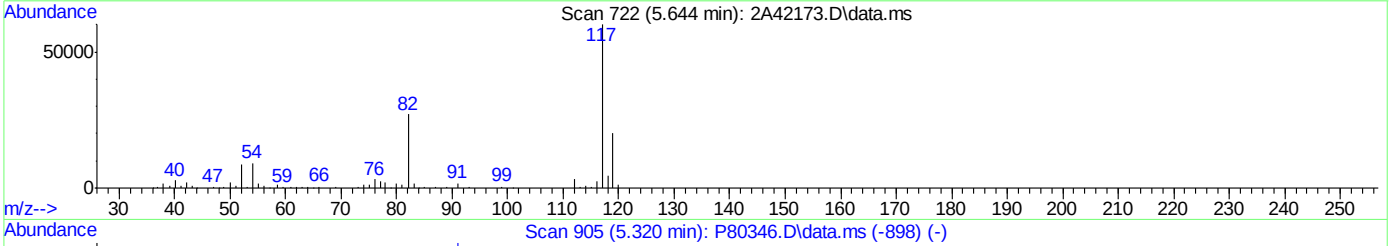
Ion	Exp%	Act%
82.90	100	100
96.90	123.20	115.24
61.00	76.90	73.13
98.90	80.40	70.78

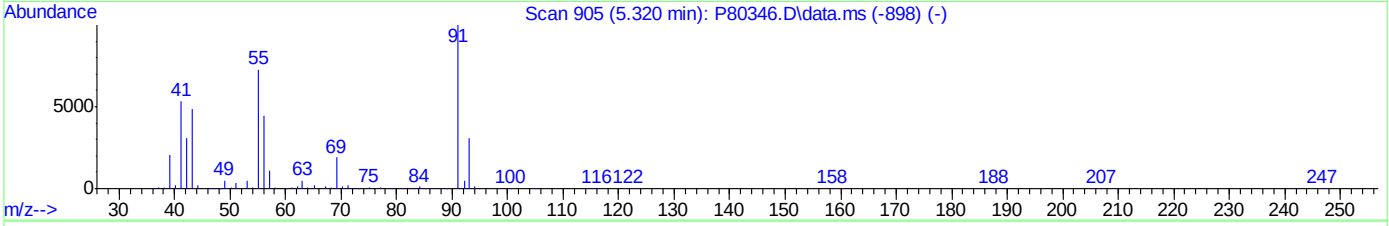
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.005) 0.92ug/L

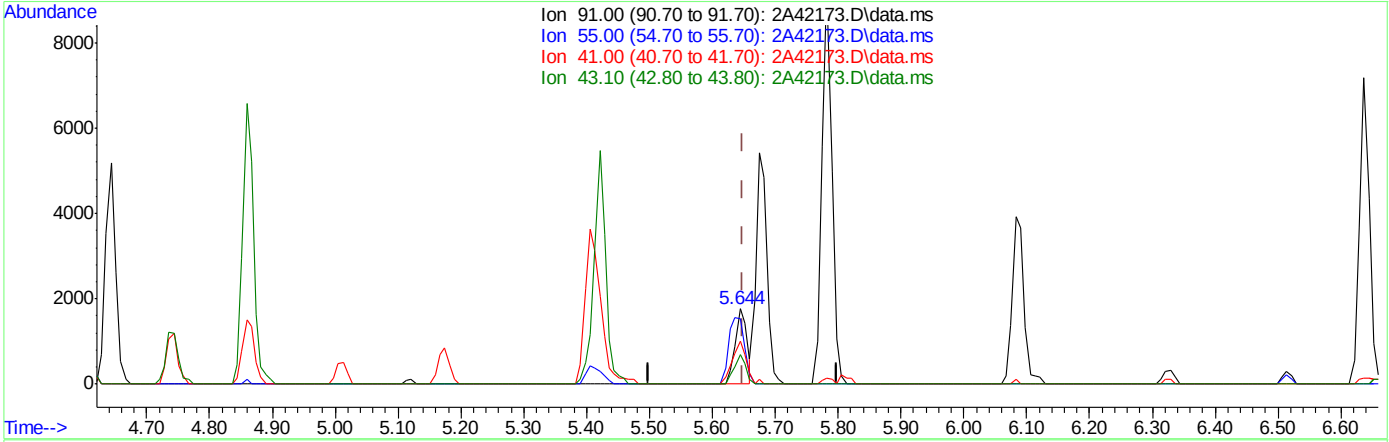
response 1629

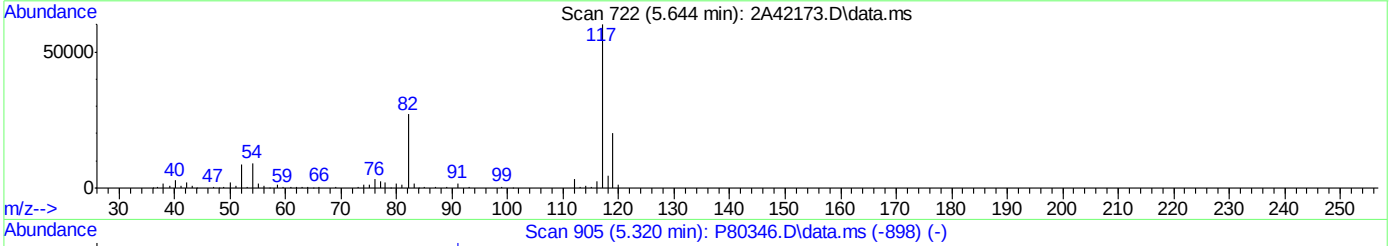
Ion	Exp%	Act%
91.00	100	100
55.00	67.70	72.03
41.00	60.00	48.55
43.10	48.60	39.74

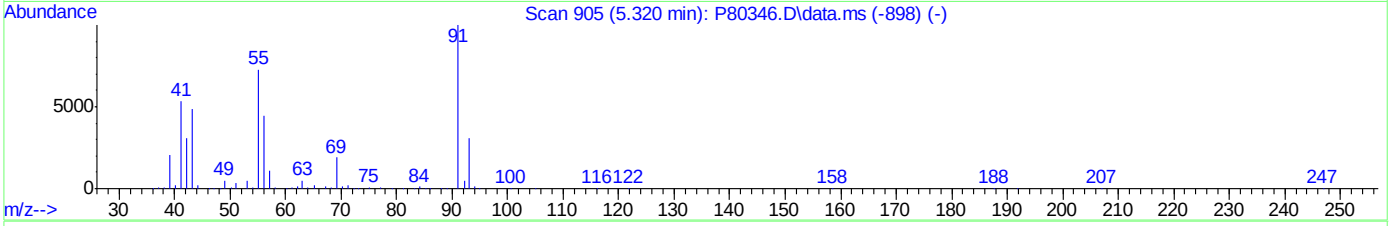
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.005) 1.30ug/L m

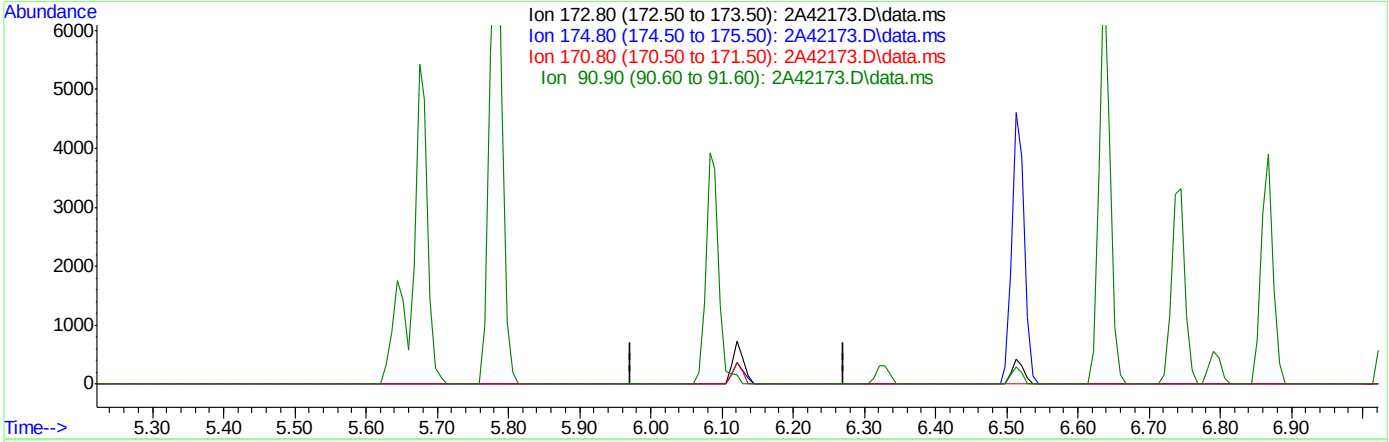
response 2301

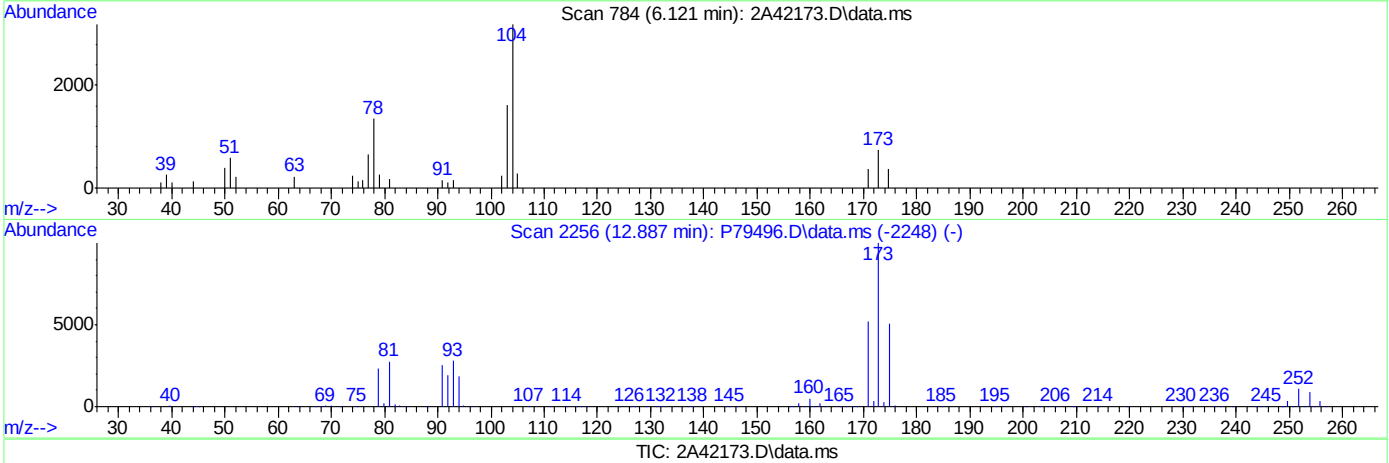
Ion	Exp%	Act%
91.00	100	100
55.00	67.70	86.58
41.00	60.00	57.87
43.10	48.60	39.74

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42173.D\data.ms

(83) Bromoform (P)

6.122min (-6.122) 0.00ug/L

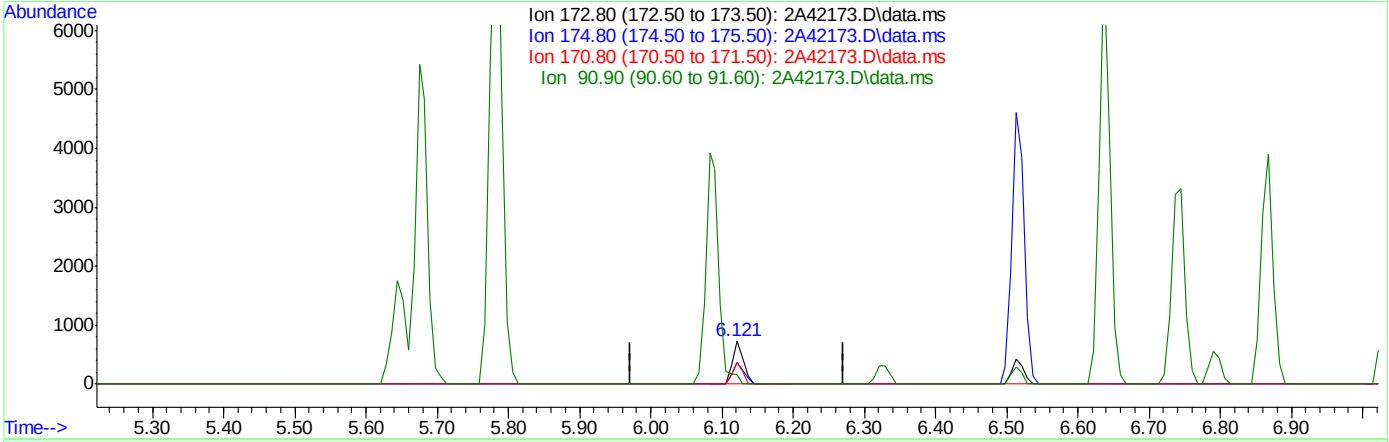
response 0

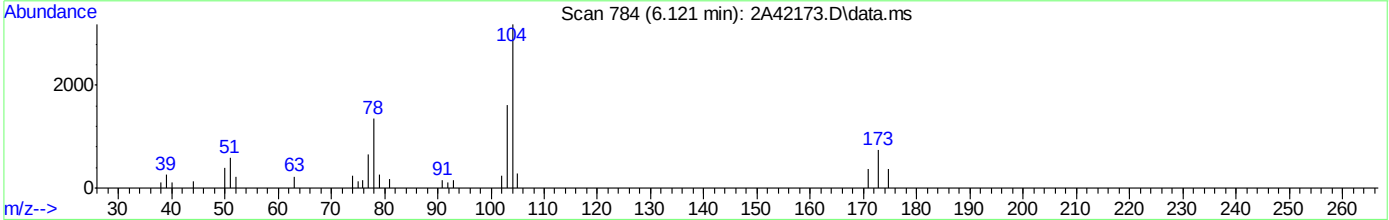
Ion	Exp%	Act%
172.80	100	0.00
174.80	47.80	0.00#
170.80	48.40	0.00#
90.90	21.70	0.00

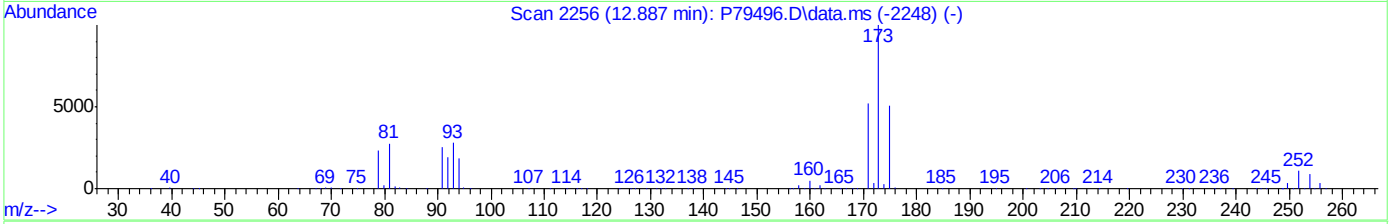
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(83) Bromoform (P)

6.121min (-0.001) 0.95ug/L m

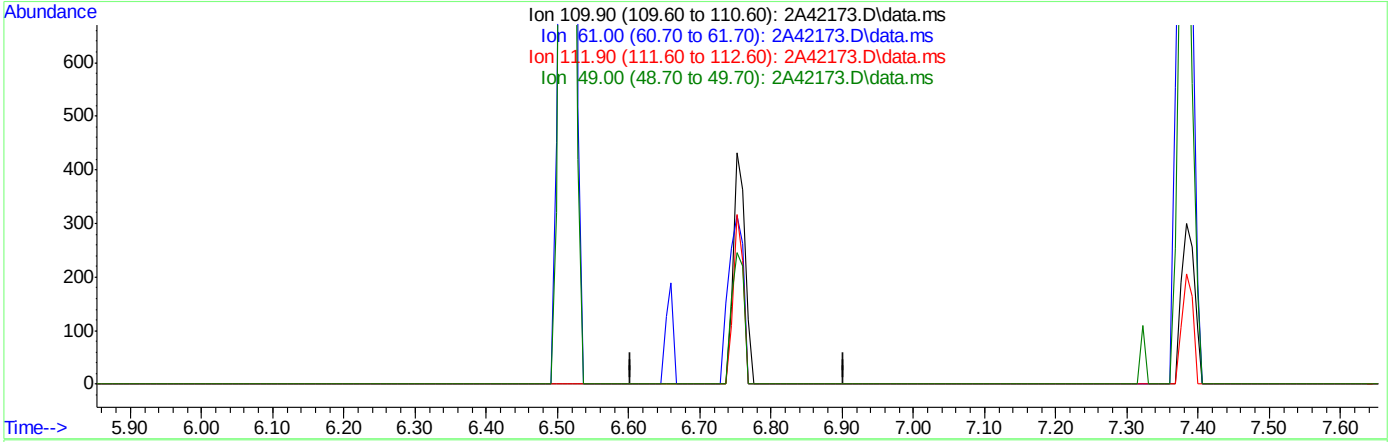
response 756

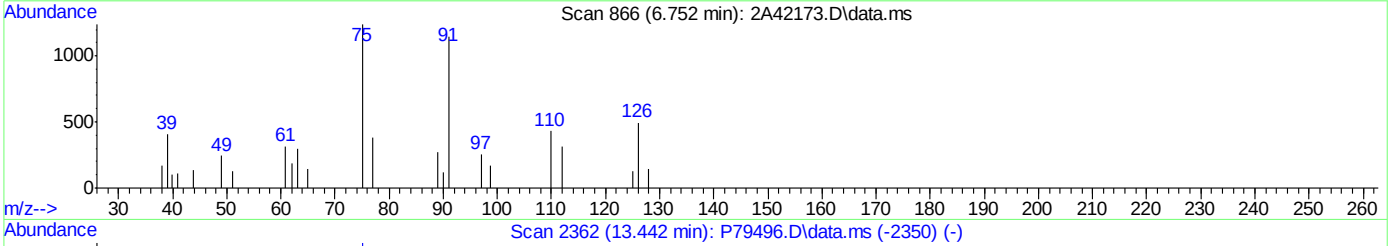
Ion	Exp%	Act%
172.80	100	100
174.80	47.80	49.52
170.80	48.40	49.12
90.90	21.70	21.77

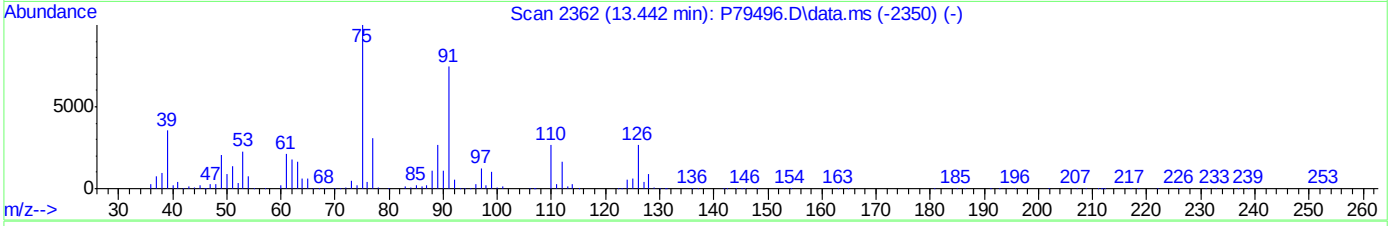
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(94) 1,2,3-Trichloropropane ( )

6.753min (-6.753) 0.00ug/L

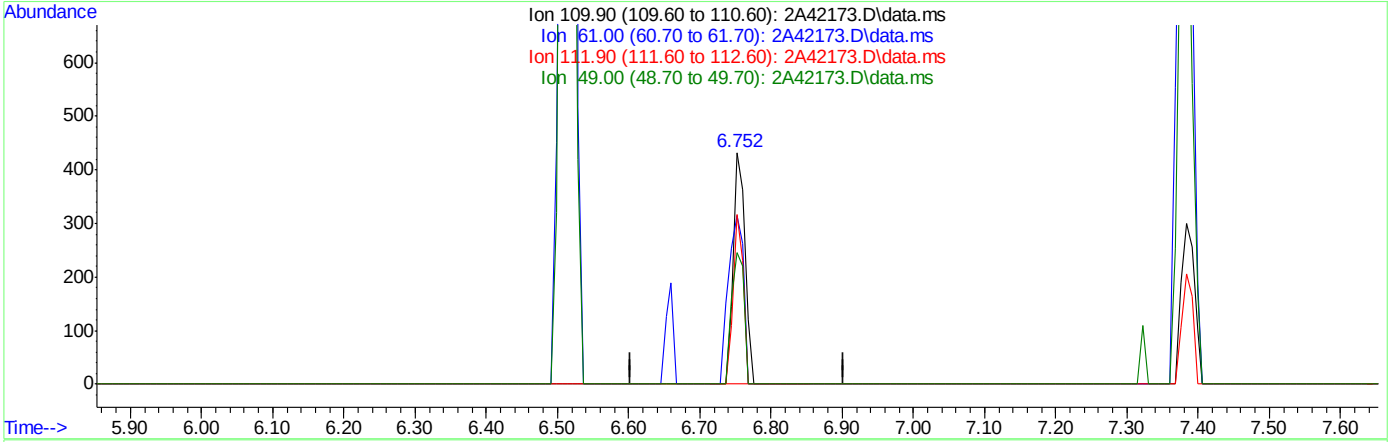
response 0

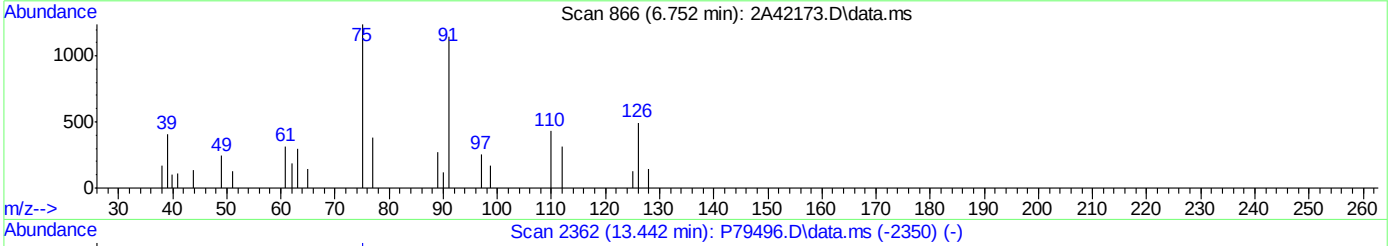
Ion	Exp%	Act%
109.90	100	0.00
61.00	67.70	0.00#
111.90	62.40	0.00#
49.00	71.70	0.00#

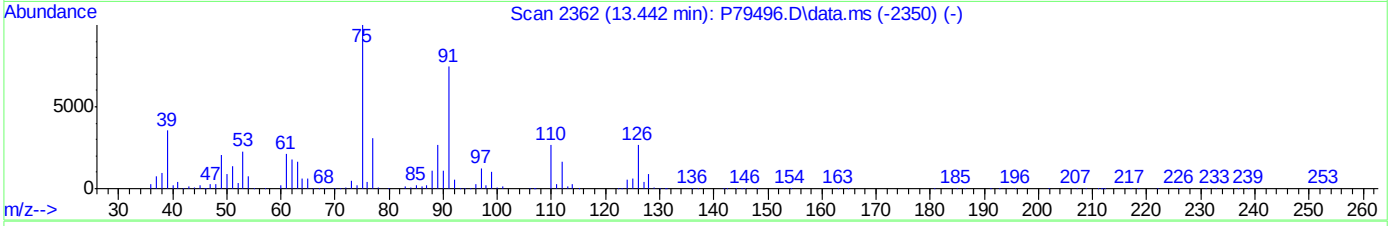
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(94) 1,2,3-Trichloropropane ( )

6.752min (-0.001) 0.78ug/L m

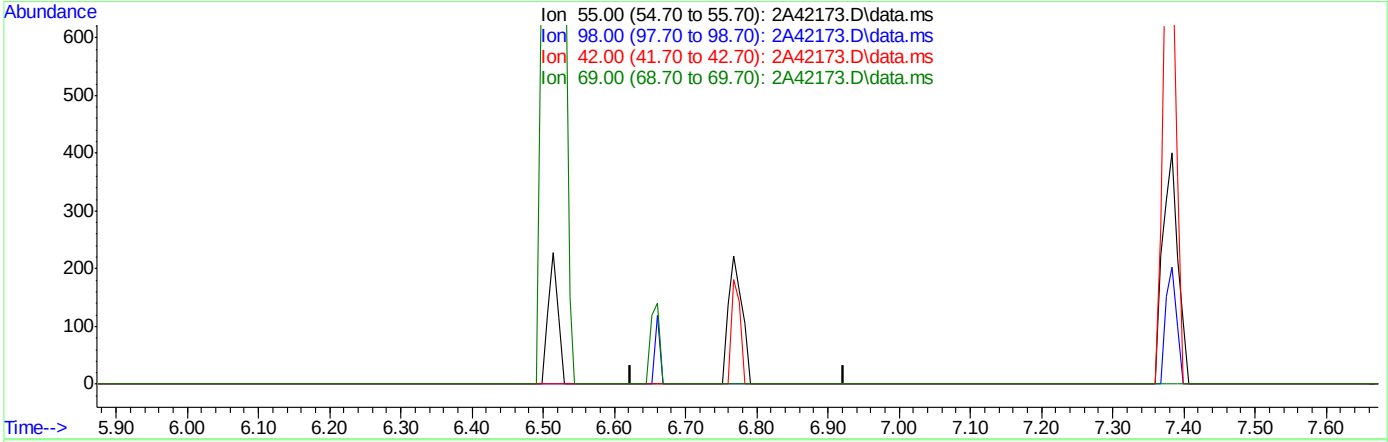
response 490

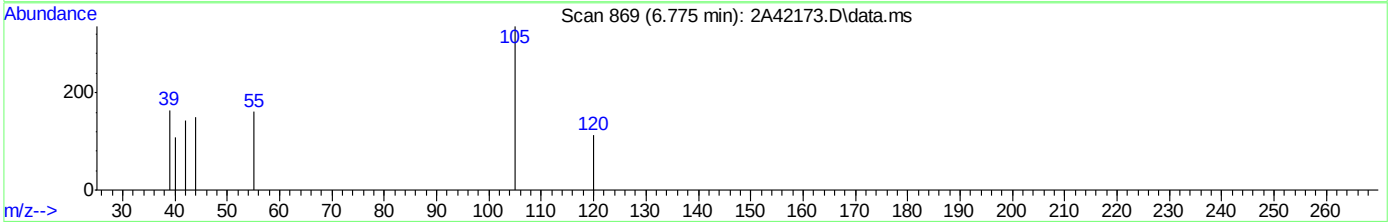
Ion	Exp%	Act%
109.90	100	100
61.00	67.70	72.69
111.90	62.40	73.15
49.00	71.70	56.71

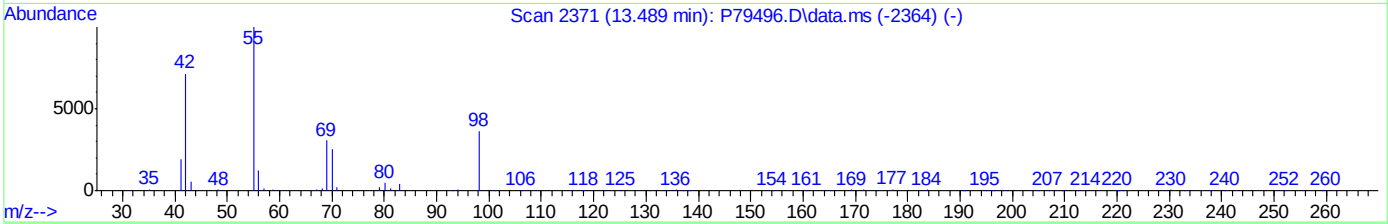
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(95) Cyclohexanone

6.773min (-6.773) 0.00ug/L

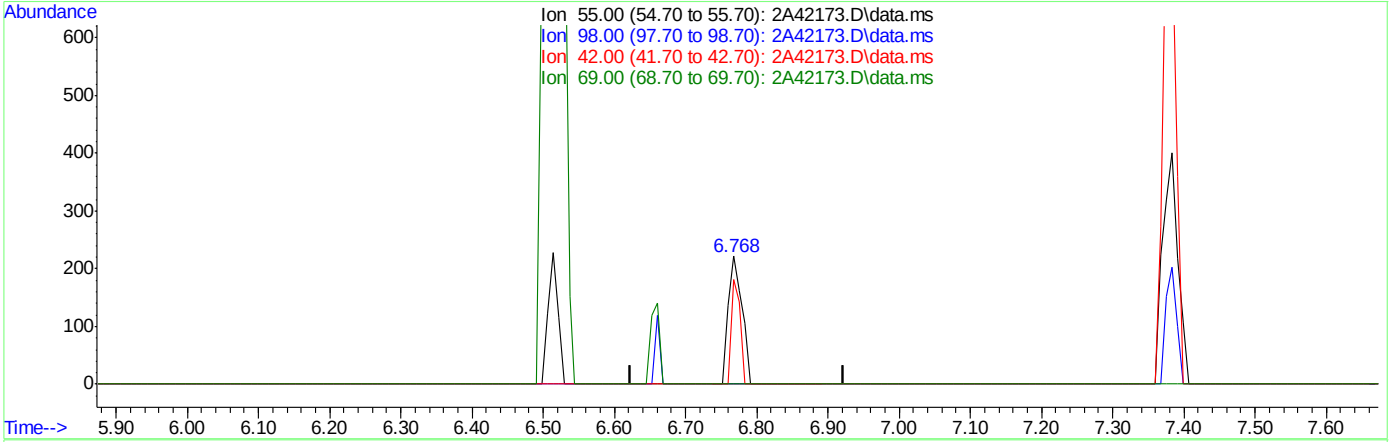
response 0

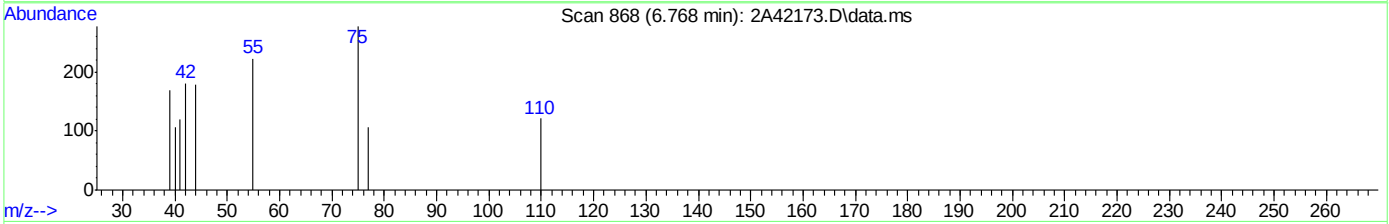
Ion	Exp%	Act%
55.00	100	0.00
98.00	44.70	0.00#
42.00	65.80	0.00#
69.00	24.30	0.00#

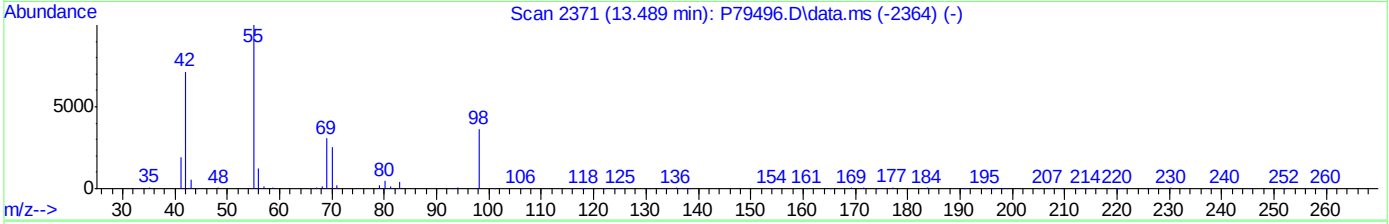
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(95) Cyclohexanone

6.768min (-0.005) 2.20ug/L m

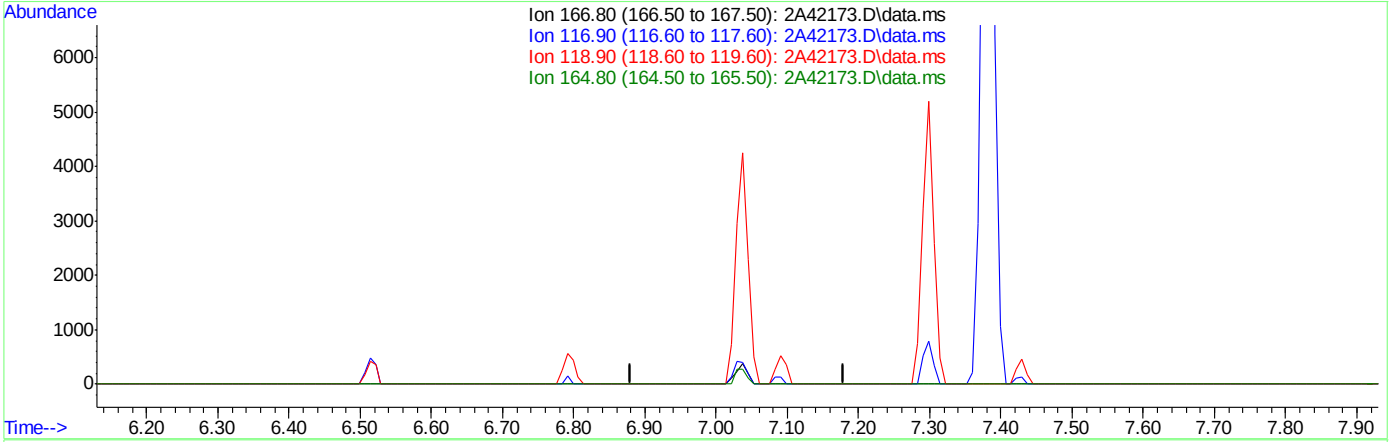
response 289

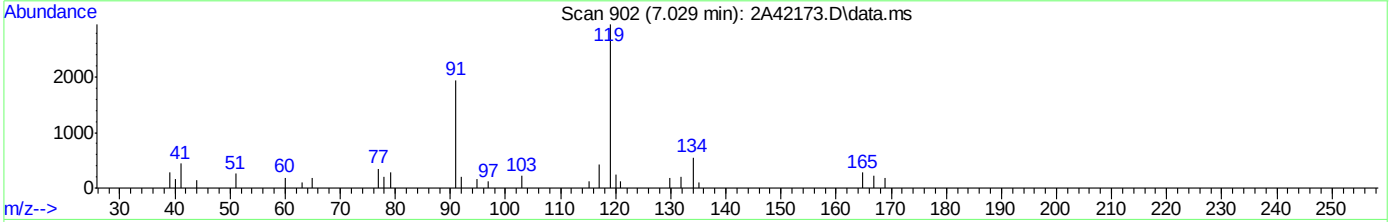
Ion	Exp%	Act%
55.00	100	100
98.00	44.70	0.00#
42.00	65.80	81.53
69.00	24.30	0.00#

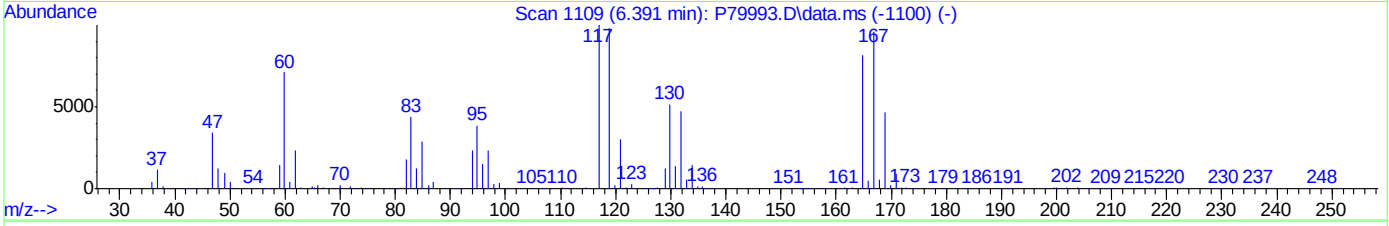
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(99) Pentachloroethane ( )

7.030min (-7.030) 0.00ug/L

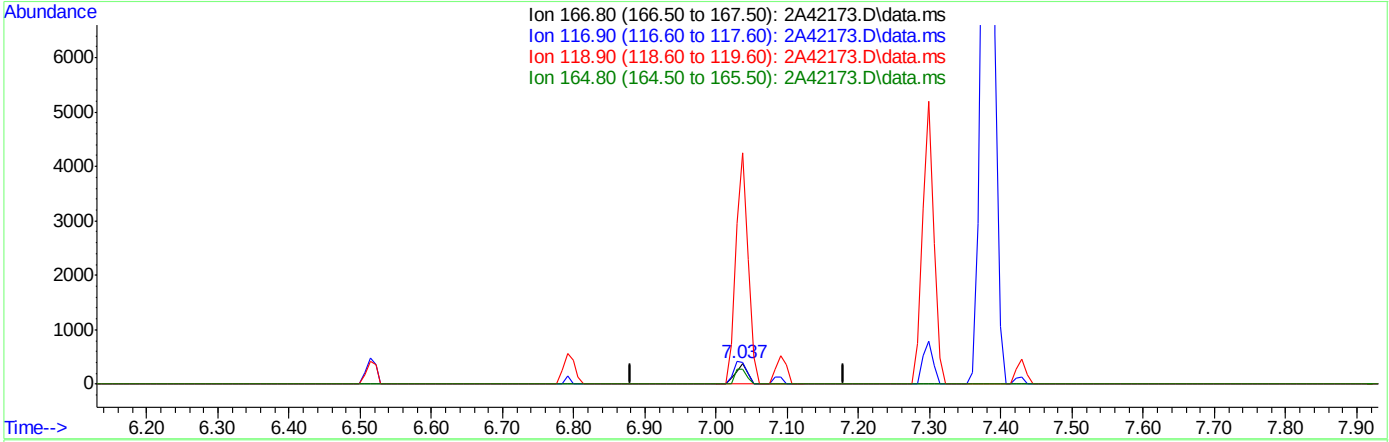
response 0

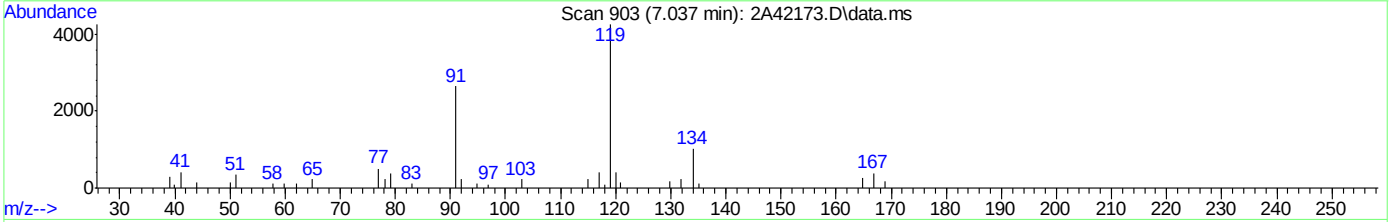
Ion	Exp%	Act%
166.80	100	0.00
116.90	119.00	0.00#
118.90	538.00	0.00#
164.80	79.00	0.00#

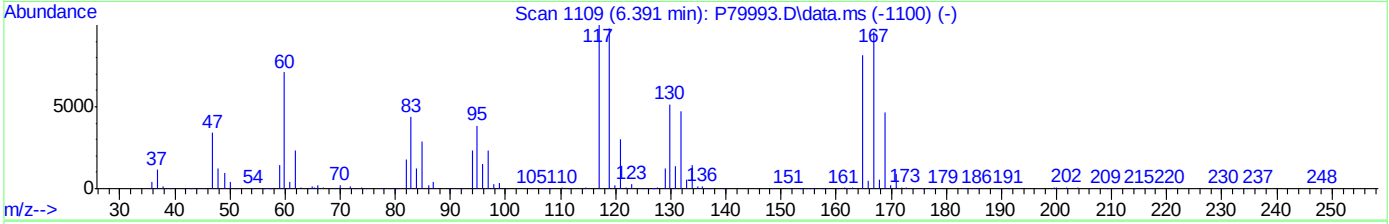
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(99) Pentachloroethane ( )

7.037min (+0.007) 0.53ug/L m

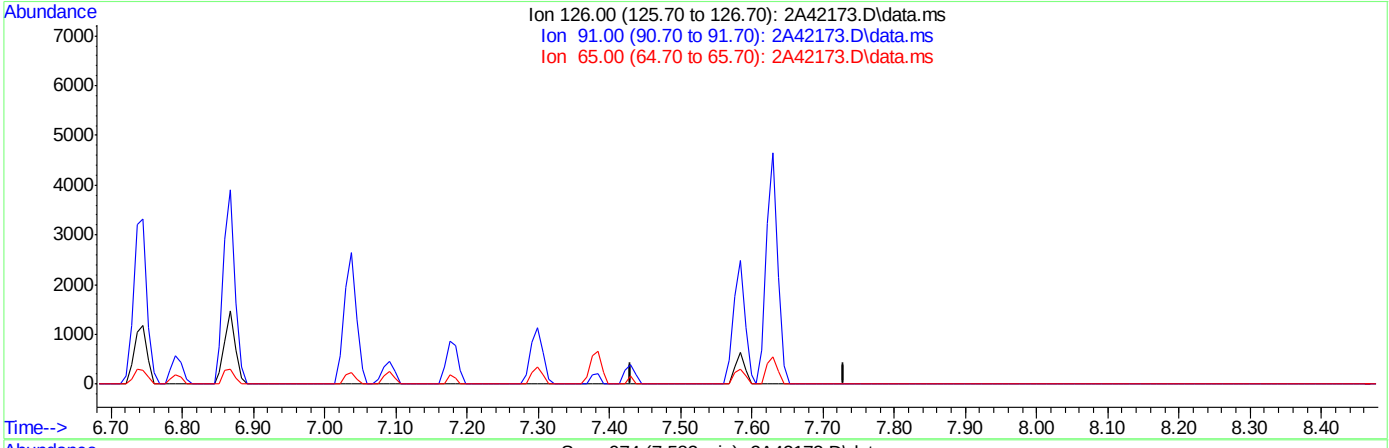
response 424

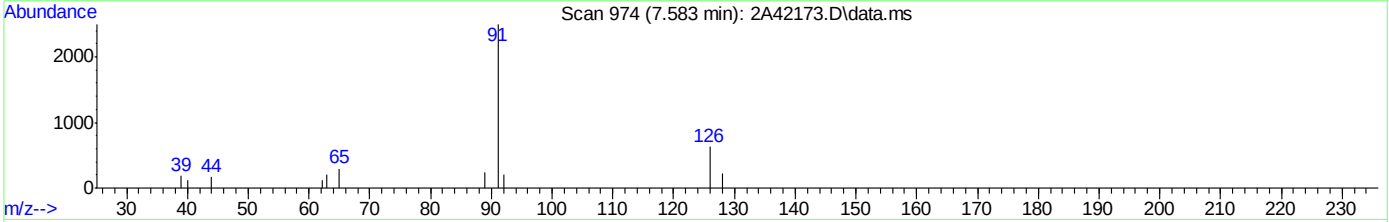
Ion	Exp%	Act%
166.80	100	100
116.90	119.00	103.67
118.90	538.00	1117.06#
164.80	79.00	69.55

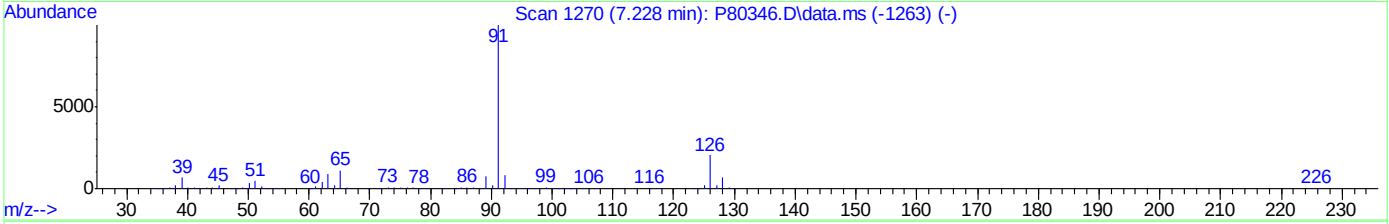
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(106) Benzyl Chloride

7.580min (-7.580) 0.00ug/L

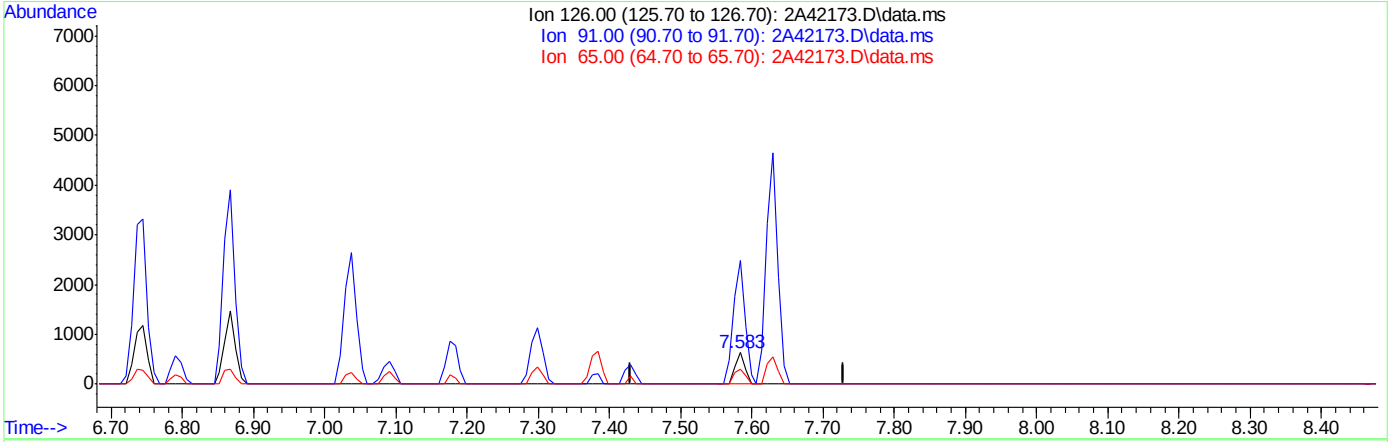
response 0

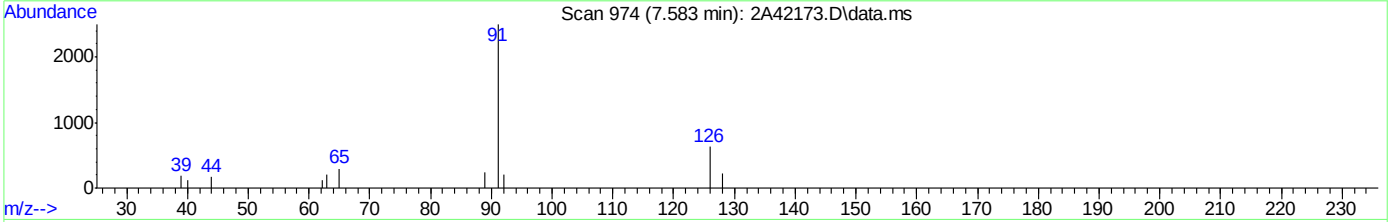
Ion	Exp%	Act%
126.00	100	0.00
91.00	430.00	0.00#
65.00	53.30	0.00#
0.00	0.00	0.00

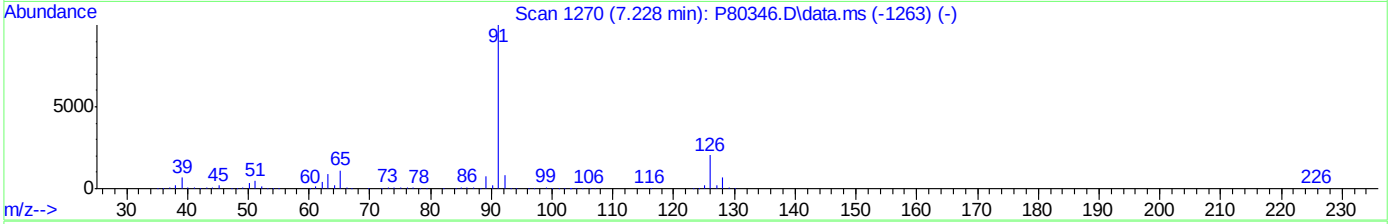
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(106) Benzyl Chloride

7.583min (+0.003) 0.82ug/L m

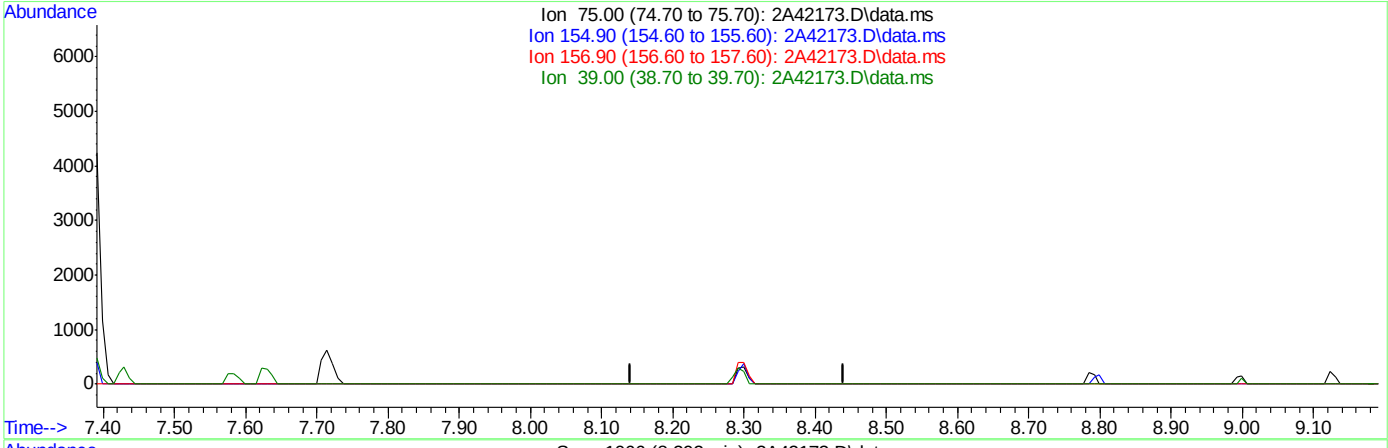
response 582

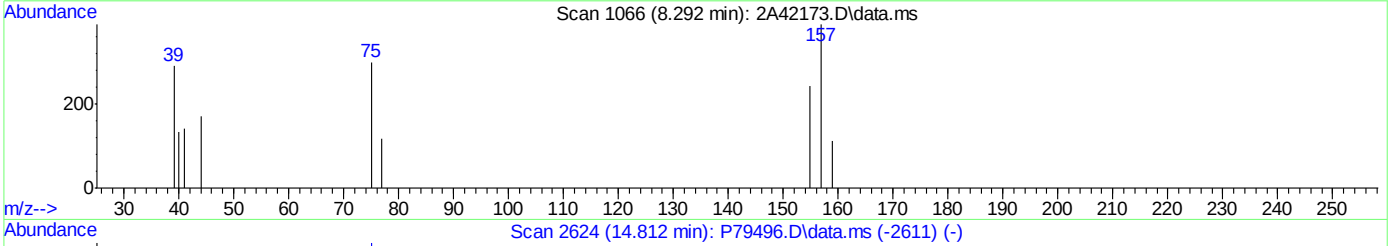
Ion	Exp%	Act%
126.00	100	100
91.00	430.00	394.94#
65.00	53.30	46.52
0.00	0.00	0.00

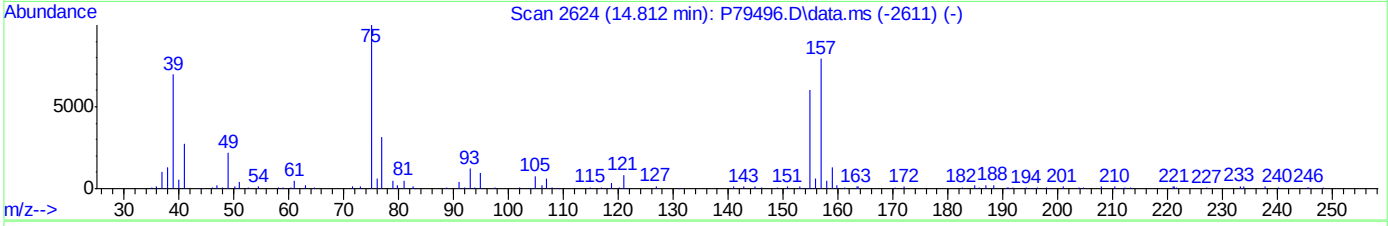
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(108) 1,2-Dibromo-3-Chloropropane

8.291min (-8.291) 0.00ug/L

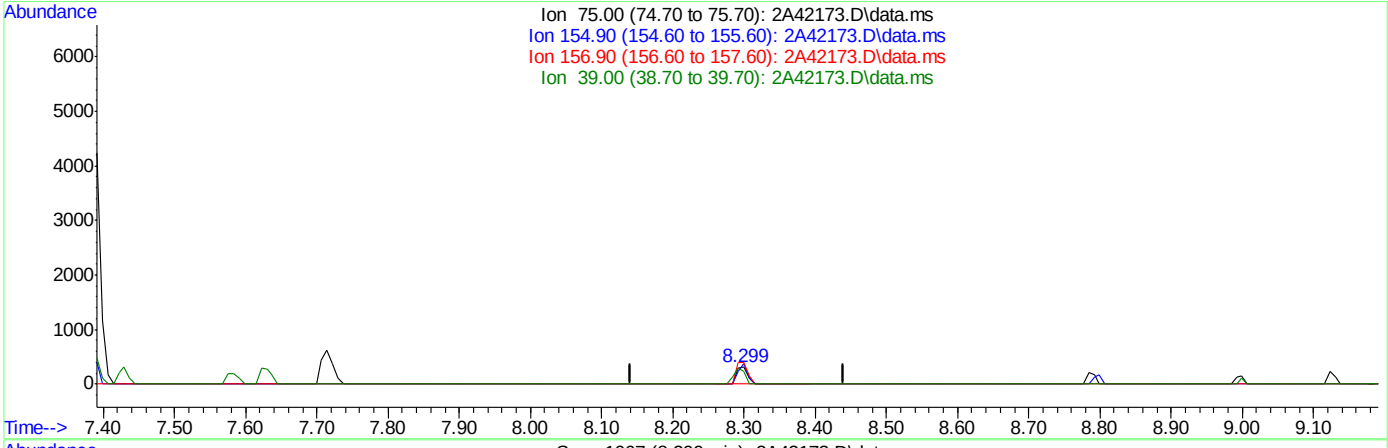
response 0

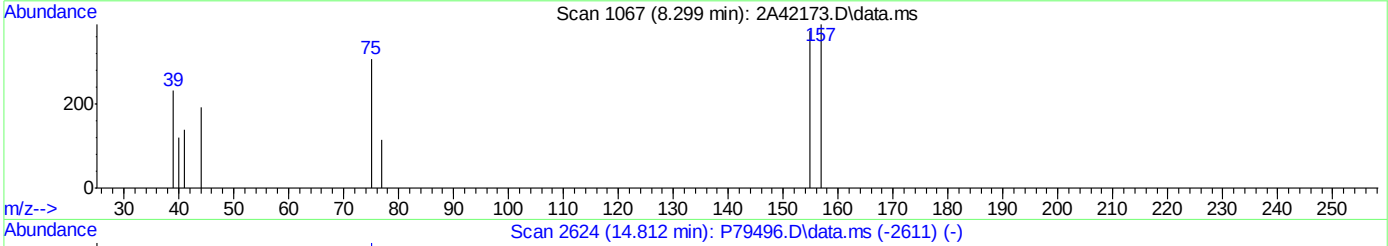
Ion	Exp%	Act%
75.00	100	0.00
154.90	89.60	0.00#
156.90	114.50	0.00#
39.00	104.30	0.00#

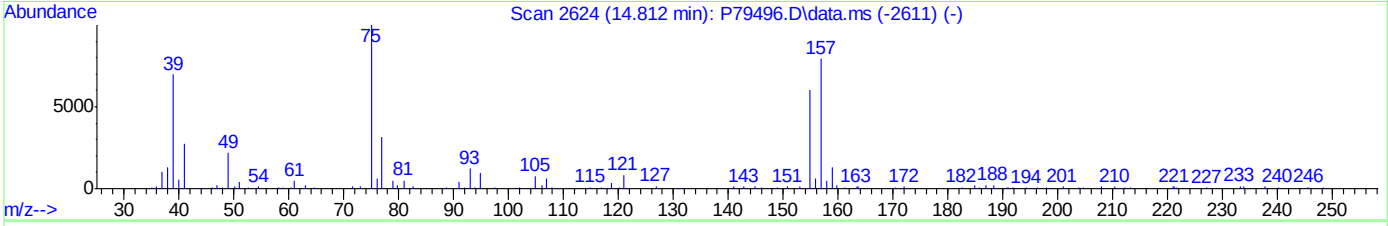
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:16:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42173.D\data.ms

(108) 1,2-Dibromo-3-Chloropropane

8.299min (+0.008) 0.78ug/L m

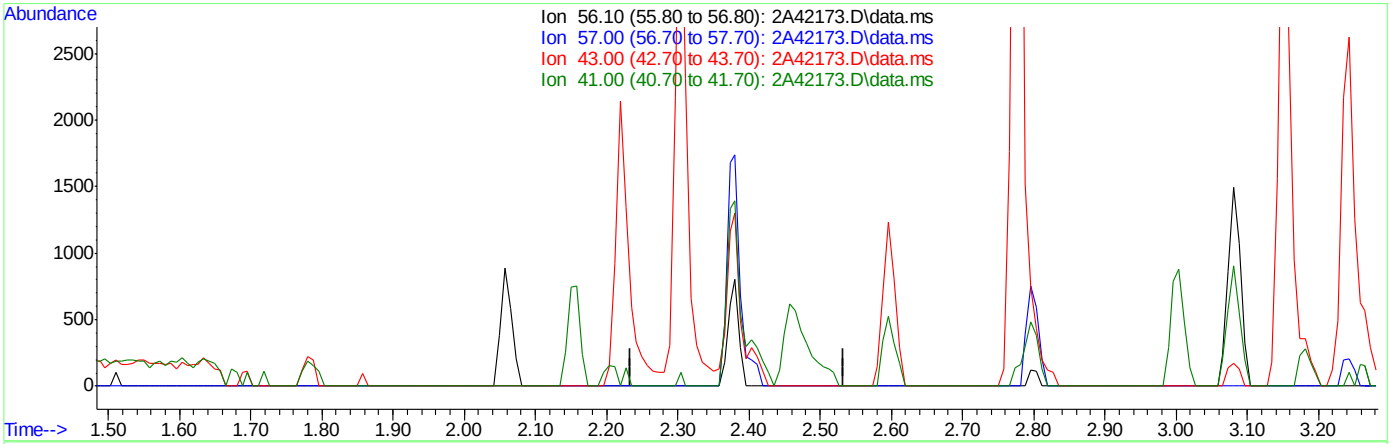
response 327

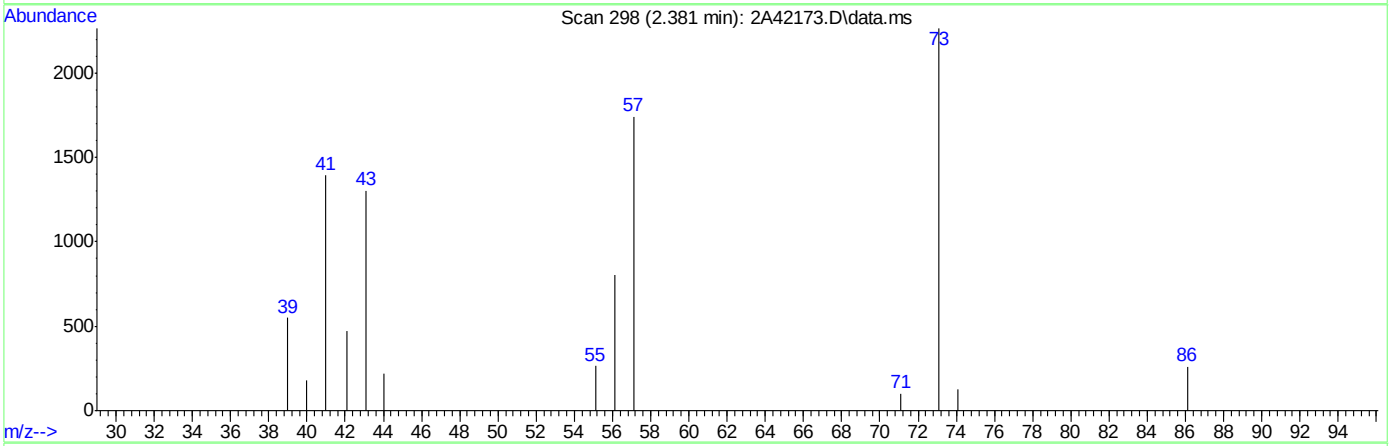
Ion	Exp%	Act%
75.00	100	100
154.90	89.60	121.17#
156.90	114.50	126.71
39.00	104.30	75.24

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:27:49 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42173.D\data.ms

(22) Hexane

2.384min 0.00ug/L d

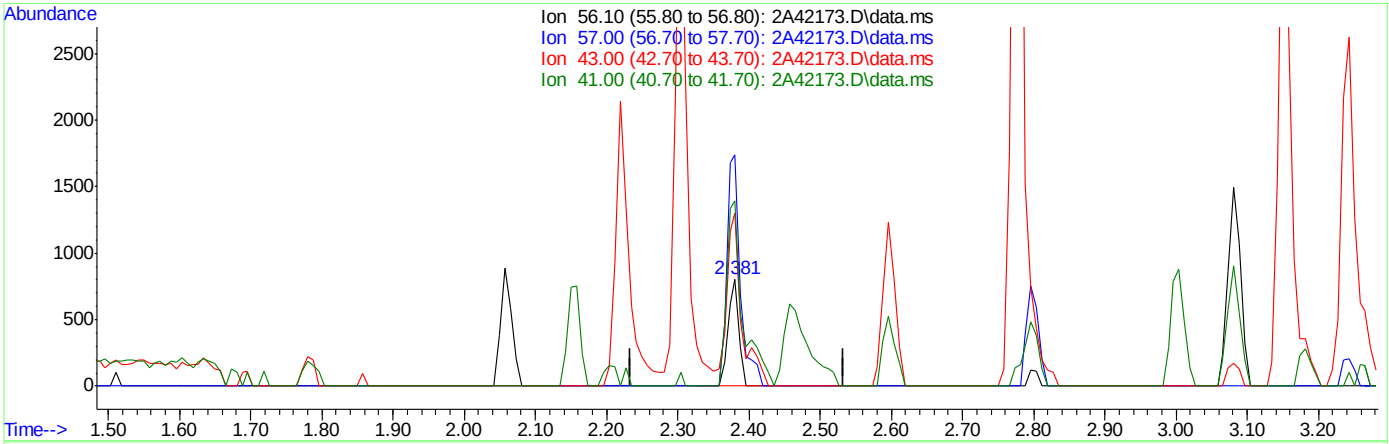
response 0

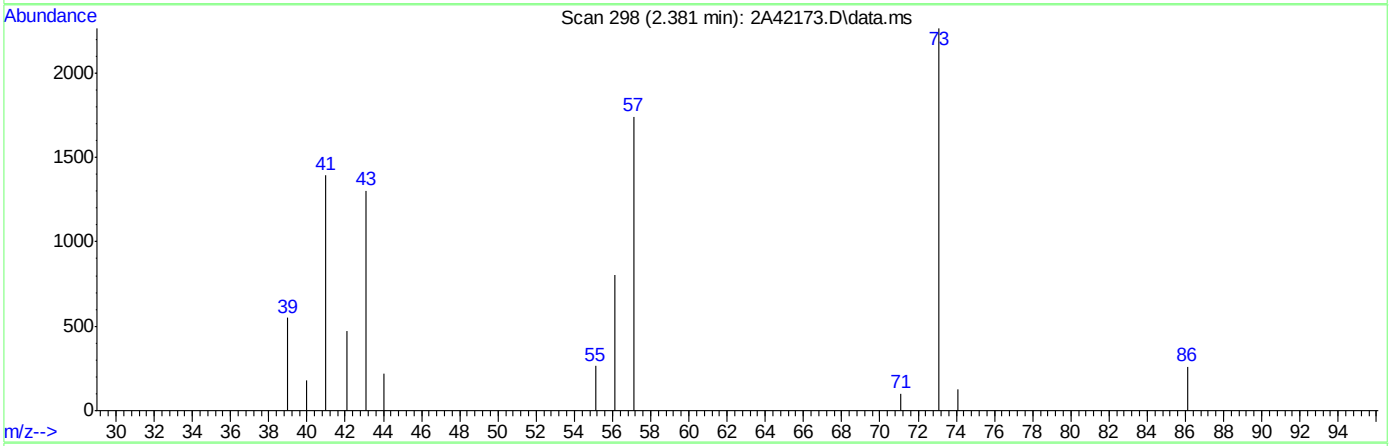
Ion	Exp%	Act%
56.10	100	0.00
57.00	234.90	0.00
43.00	203.60	0.00
41.00	213.10	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42173.D
Acq On : 16 Dec 2022 10:08 am
Operator : joannel
Sample : IC1677-1
Misc : MS53004,V2A1677,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 16 14:27:49 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42173.D\data.ms

(22) Hexane

2.381min (-0.003) 0.83ug/L m

response 872

Ion	Exp%	Act%
56.10	100	100
57.00	234.90	216.54
43.00	203.60	161.94#
41.00	213.10	173.51#

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 12/20/22 07:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42175.D
Acq On : 16 Dec 2022 10:43 am
Operator : joannel
Sample : IC1677-2
Misc : MS53004,V2A1677,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 16 14:30:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.651	96	205952	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.636	117	166742	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.384	152	91976	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.189	113	60112	53.78	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.56%				
49) 1,2-Dichloroethane-d4	3.481	65	66837	52.22	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 104.44%				
63) Toluene-d8	4.605	98	210306	56.20	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 112.40%#				
86) 4-Bromofluorobenzene	6.514	174	76869	55.96	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 111.92%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.042	85	5936	5.85	ug/L		95
3) Chloromethane	1.173	50	5263	4.02	ug/L		97
4) 1,3-butadiene	1.234	39	4075	3.46	ug/L		81
5) Vinyl Chloride	1.219	62	5522	4.20	ug/L		96
6) Bromomethane	1.419	94	3641	4.06	ug/L		98
7) Chloroethane	1.496	64	2978	2.85	ug/L		86
8) Trichlorofluoromethane	1.588	101	8031	3.20	ug/L		99
9) Ethyl Ether	1.781	59	3986	3.30	ug/L	#	82
10) Ethanol	1.842	45	1047	45.88	ug/L		98
11) 1,2-Dichlorotrifluoroe...	1.881	67	6461	5.11	ug/L		98
12) 1,1-Dichloroethene	1.888	61	7863	4.58	ug/L		95
13) Freon 113	1.919	101	5549	4.73	ug/L		96
14) Carbon Disulfide	1.904	76	15505	4.96	ug/L		83
15) Iodomethane	1.965	142	8063	10.97	ug/L		86
16) Acrolein	2.058	56	7380	23.79	ug/L		100
17) Allyl chloride	2.150	41	6929	4.95	ug/L		96
18) Methylene Chloride	2.204	49	8033	5.40	ug/L		78
19) Acetone	2.219	43	9268	16.89	ug/L		93
20) Methyl acetate	2.304	43	20827	11.74	ug/L		88
21) trans-1,2-Dichloroethene	2.312	61	7627	4.71	ug/L		84
22) Hexane	2.381	56	4229	3.98	ug/L	#	84
23) Methyl Tert Butyl Ether	2.373	73	15504	5.05	ug/L		72
24) Acetonitrile	2.373	41	8331m	35.75	ug/L		
25) Tert Butyl Alcohol	2.404	59	11494	35.65	ug/L		86
26) Di-isopropyl ether	2.596	45	13026	3.22	ug/L		87
27) Chloroprene	2.635	53	18335	4.33	ug/L	#	87
28) 1,1-Dichloroethane	2.643	63	9719	4.71	ug/L		96
29) Acrylonitrile	2.635	52	11223	16.73	ug/L	#	71
30) ETBE	2.797	59	14556	3.86	ug/L		94
31) Vinyl acetate	2.773	43	45438	16.74	ug/L		99
32) cis-1,2-Dichloroethene	2.935	96	6271	5.13	ug/L		89
33) 2,2-Dichloropropane	3.004	77	8936	5.56	ug/L		98
34) Bromochloromethane	3.043	128	3237	5.88	ug/L		87
35) Cyclohexane	3.081	56	8035	3.98	ug/L	#	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42175.D
Acq On : 16 Dec 2022 10:43 am
Operator : joannel
Sample : IC1677-2
Misc : MS53004,V2A1677,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 16 14:30:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.089	83	10920	5.20	ug/L		93
37) Ethyl acetate	3.151	43	28836	13.38	ug/L		95
38) Tetrahydrofuran	3.181	42	1959	2.56	ug/L	#	86
40) Carbon Tetrachloride	3.189	117	7950m	4.91	ug/L		
41) 1,1,1-Trichloroethane	3.220	97	9383	5.37	ug/L		92
42) 2-Butanone	3.235	43	16349	15.28	ug/L		85
43) 1,1-Dichloropropene	3.289	75	7785	5.33	ug/L		85
44) tert-Butyl formate	3.335	59	26312	30.22	ug/L		94
45) Propionitrile	3.381	54	9753	30.51	ug/L		97
46) Methacrylonitrile	3.412	41	34692	27.06	ug/L		95
47) Benzene	3.420	78	22339	4.68	ug/L		70
48) TAME	3.497	73	14263	4.58	ug/L		88
50) 1,2-Dichloroethane	3.520	62	7423	4.19	ug/L		96
51) Isobutyl Alcohol	3.512	43	5342m	31.96	ug/L		
52) Tert Amyl Alcohol	3.582	59	7244	25.17	ug/L		88
53) Trichloroethene	3.759	95	6598	5.04	ug/L		96
54) Methylcyclohexane	3.782	83	9097	4.75	ug/L	#	83
55) Dibromomethane	3.989	93	3980	4.68	ug/L		90
56) 1,2-Dichloropropane	4.051	63	5401	4.29	ug/L		91
57) Bromodichloromethane	4.089	83	7325	4.87	ug/L		97
58) Methyl methacrylate	4.190	41	4775	3.16	ug/L	#	82
59) 1,4-Dioxane	4.205	88	1261	58.68	ug/L		88
60) 2-Chloroethyl vinyl ether	4.436	63	24920	26.56	ug/L		88
61) cis-1,3-Dichloropropene	4.482	75	8828	5.03	ug/L		84
64) Toluene	4.644	91	25788	5.42	ug/L		99
65) 2-Nitropropane	4.744	41	7481	14.36	ug/L		98
66) 4-Methyl-2-pentanone	4.859	43	31926	15.56	ug/L		95
67) trans-1,3-Dichloropropene	4.890	75	7446	4.75	ug/L		87
68) Tetrachloroethene	4.905	166	7446	5.69	ug/L		93
69) Ethyl methacrylate	5.005	69	7331	4.51	ug/L		82
70) 1,1,2-Trichloroethane	4.990	83	4288	4.70	ug/L		95
71) Dibromochloromethane	5.121	129	5847	4.63	ug/L		97
72) 1,3-Dichloropropane	5.175	76	8849	4.93	ug/L		82
73) 1,2-Dibromoethane	5.275	107	5781	4.78	ug/L		100
74) 3,3-Dimethyl-1-Butanol	5.406	57	54306	154.28	ug/L		89
75) 2-hexanone	5.421	43	33995	14.53	ug/L	#	69
76) 1-Chlorohexane	5.644	91	8850m	5.07	ug/L		
77) Ethylbenzene	5.675	91	29091m	5.21	ug/L		
78) Chlorobenzene	5.644	112	17115	5.11	ug/L		95
79) 1,1,1,2-Tetrachloroethane	5.690	131	5555	4.37	ug/L		87
80) m,p-Xylene	5.783	91	46370	10.52	ug/L		98
81) o-Xylene	6.083	91	23300	5.44	ug/L		98
82) Styrene	6.121	104	18112	5.32	ug/L		96
83) Bromoform	6.121	173	3840	4.83	ug/L		97
84) Isopropylbenzene	6.329	105	28978	5.47	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.552	53	2346	3.18	ug/L	#	75
88) n-Propylbenzene	6.637	91	34337	4.97	ug/L		96
89) Bromobenzene	6.591	156	7966	5.28	ug/L		96
90) 1,1,2,2-Tetrachloroethane	6.660	83	7522	4.00	ug/L		96
91) 1,3,5-Trimethylbenzene	6.791	105	24861	4.88	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42175.D
Acq On : 16 Dec 2022 10:43 am
Operator : joannel
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Misc : MS53004,V2A1677,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 16 14:30:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
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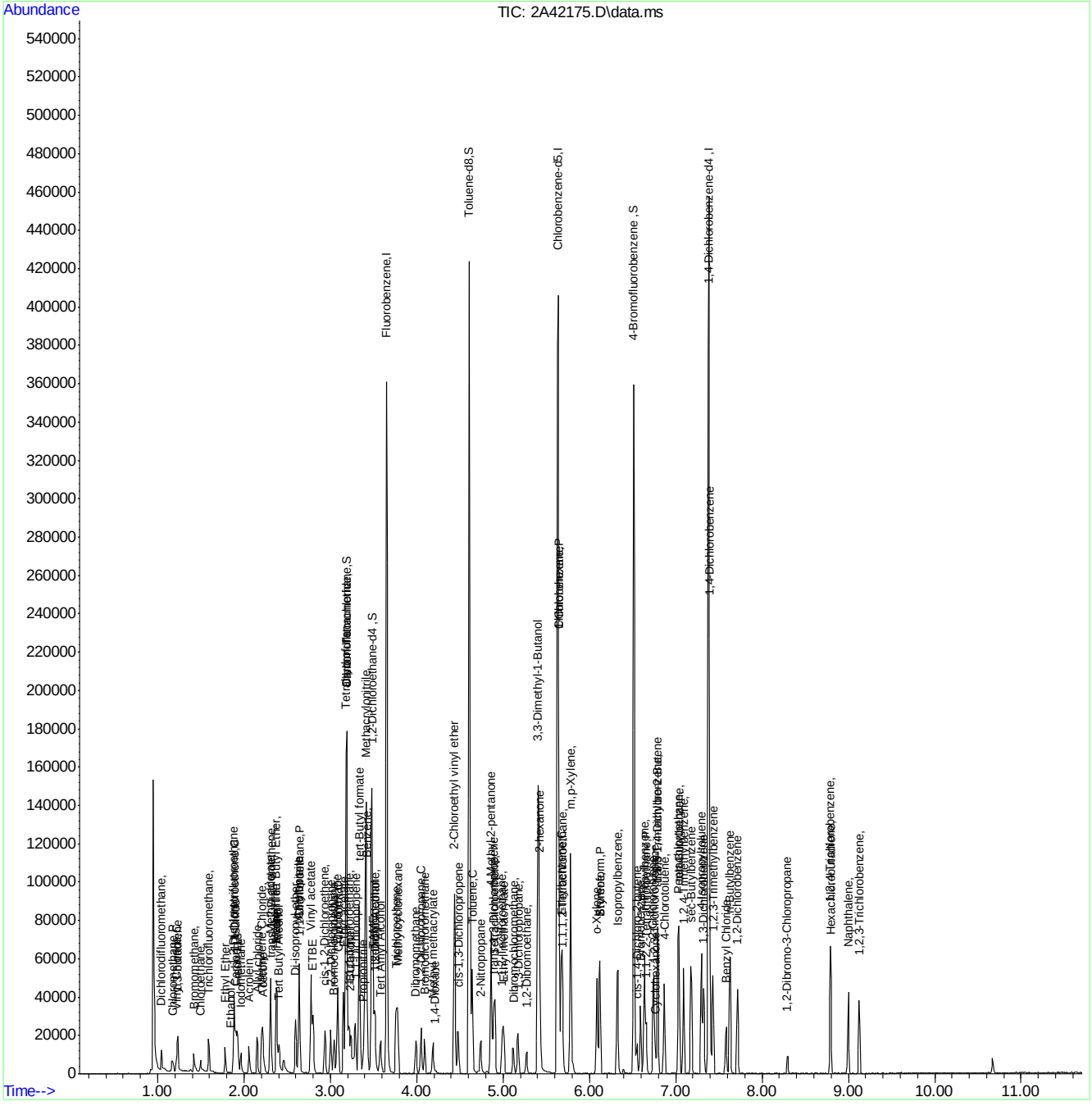
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.737	91	19336	4.99	ug/L		94
93)	trans-1,4-Dichloro-2-B...	6.791	53	2647	3.23	ug/L		82
94)	1,2,3-Trichloropropane	6.752	110	2457	3.92	ug/L		90
95)	Cyclohexanone	6.768	55	1414m	10.89	ug/L		
96)	4-Chlorotoluene	6.868	91	20477	4.96	ug/L		95
97)	tert-Butylbenzene	7.037	91	13733	4.92	ug/L		93
98)	1,2,4-Trimethylbenzene	7.091	105	23030	4.70	ug/L		98
99)	Pentachloroethane	7.029	167	3668	4.63	ug/L		94
100)	sec-Butylbenzene	7.176	105	30119	4.90	ug/L		97
101)	4-Isopropyltoluene	7.299	119	26745	4.99	ug/L		98
102)	1,3-Dichlorobenzene	7.322	146	14273	5.01	ug/L		98
103)	1,2,3-Trimethylbenzene	7.430	105	21810	4.59	ug/L		99
104)	1,4-Dichlorobenzene	7.391	146	14570	4.72	ug/L		90
105)	n-Butylbenzene	7.630	92	12649	4.73	ug/L		96
106)	Benzyl Chloride	7.584	126	2922	4.15	ug/L		97
107)	1,2-Dichlorobenzene	7.714	146	13285	5.01	ug/L		96
108)	1,2-Dibromo-3-Chloropr...	8.292	75	1663	3.98	ug/L	#	86
109)	Hexachlorobutadiene	8.800	225	5251	7.45	ug/L	#	77
110)	1,2,4-Trichlorobenzene	8.792	180	8661	5.64	ug/L		95
111)	Naphthalene	9.000	128	21030	4.05	ug/L		99
112)	1,2,3-Trichlorobenzene	9.123	180	8007	5.71	ug/L		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42175.D
Acq On : 16 Dec 2022 10:43 am
Operator : joannel
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Misc : MS53004,V2A1677,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 16 14:30:58 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration



Manual Integration Approval Summary

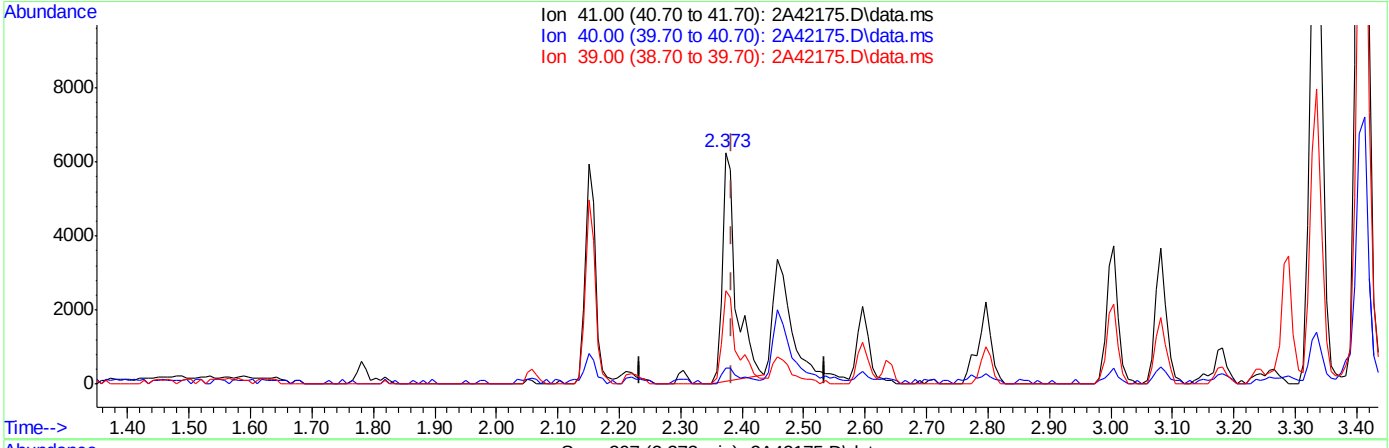
Sample Number: V2A1677-IC1677
Lab FileID: 2A42175.D
Injection Time: 12/16/22 10:43
Method: SW846 8260D
Analyst approved: 12/19/22 09:22 Jo-Ann Lugo De Jesus
Supervisor approved: 12/20/22 07:54 Neil Christiana

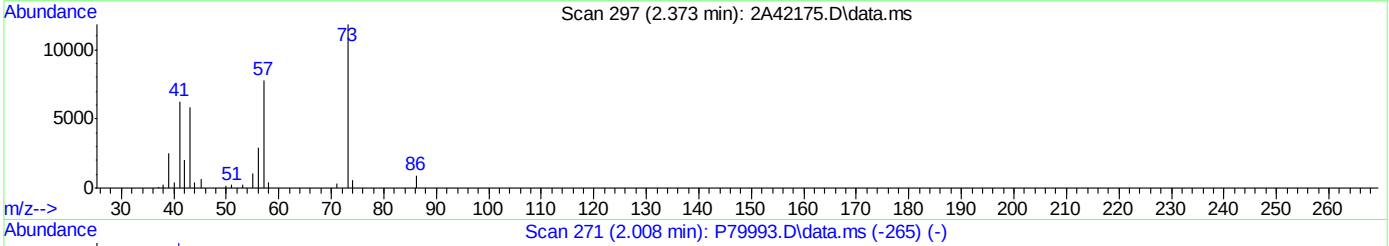
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.37	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.19	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration
Ethylbenzene	100-41-4		5.67	Poor instrument integration
Cyclohexanone	108-94-1		6.77	Missed peak

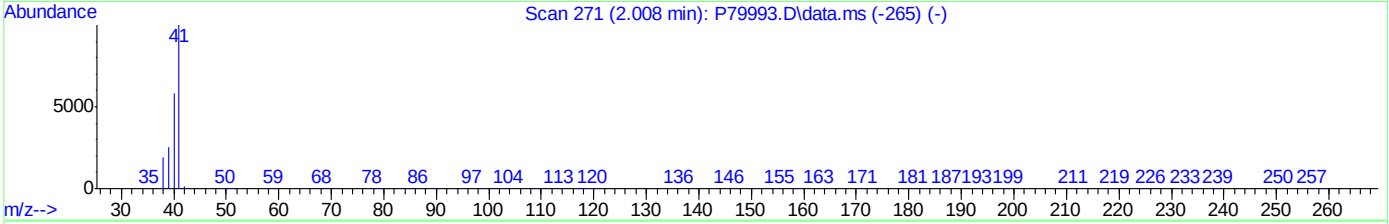
Quantitation Report (Qedit)

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TIC: 2A42175.D\data.ms

(24) Acetonitrile

2.373min (-0.011) 41.67ug/L

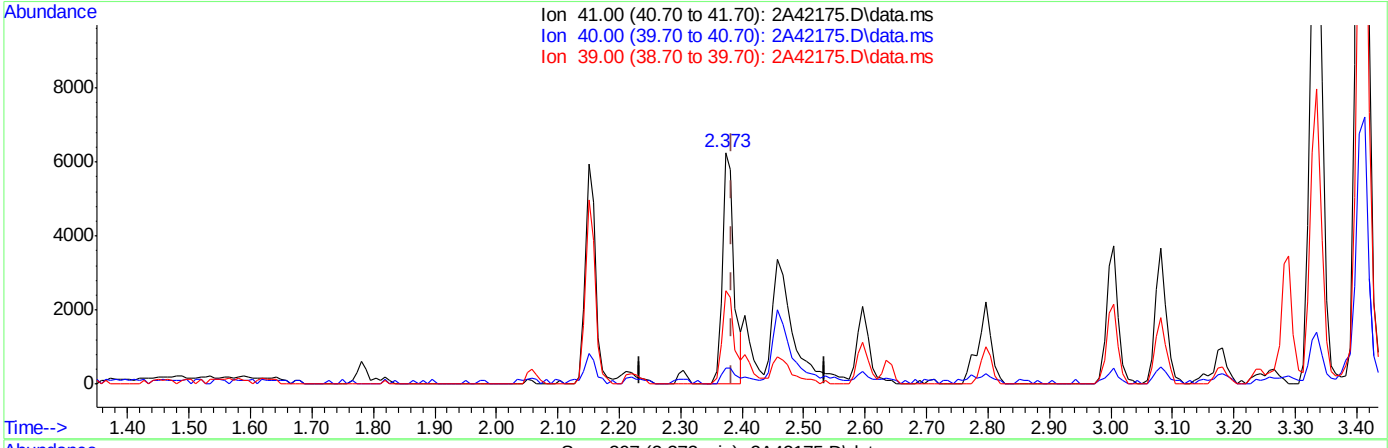
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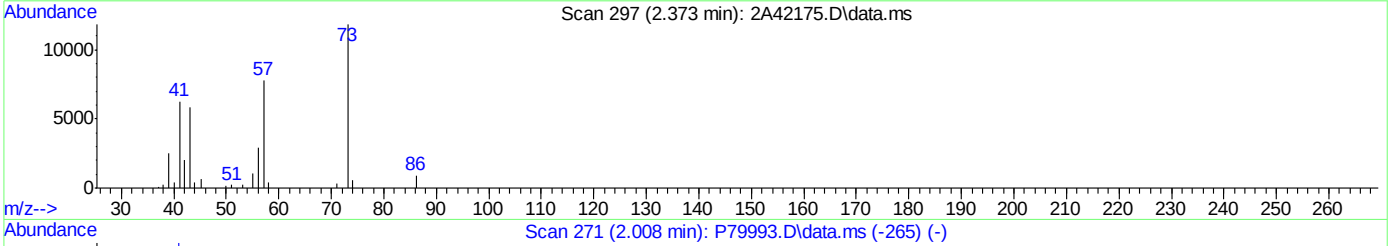
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.89
39.00	38.20	40.32
0.00	0.00	0.00

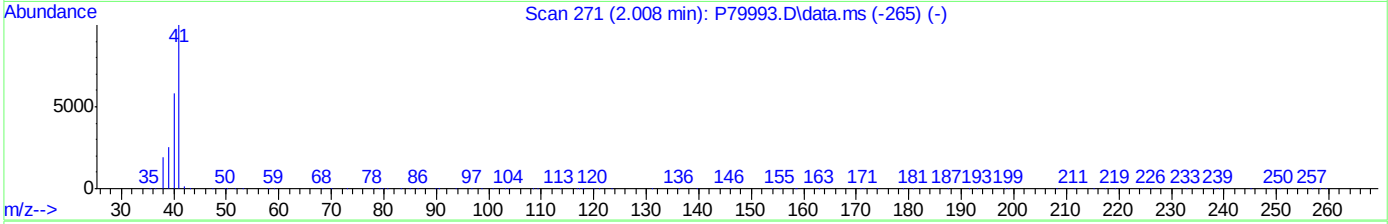
Quantitation Report (Qedit)

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ALS Vial : 53 Sample Multiplier: 1

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Quant Title : SW-846 Method 5035A/8260B
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TIC: 2A42175.D\data.ms

(24) Acetonitrile

2.373min (-0.011) 35.75ug/L m

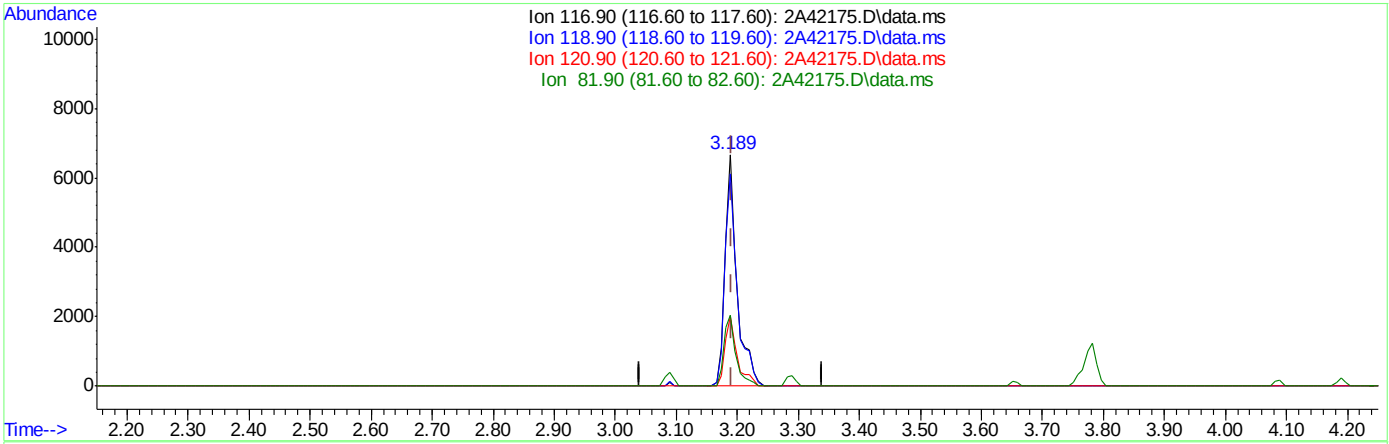
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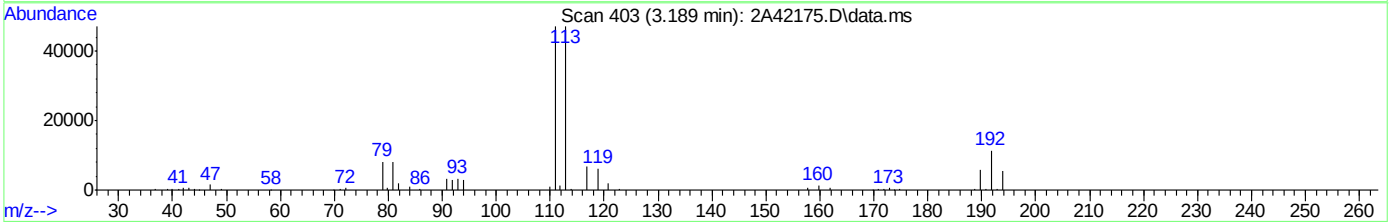
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.89
39.00	38.20	40.32
0.00	0.00	0.00

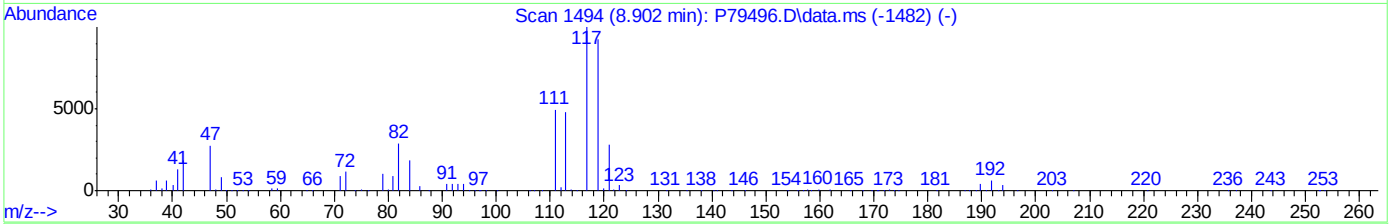
Quantitation Report (Qedit)

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TIC: 2A42175.D\data.ms

(40) Carbon Tetrachloride ( )

3.189min (-0.002) 5.69ug/L

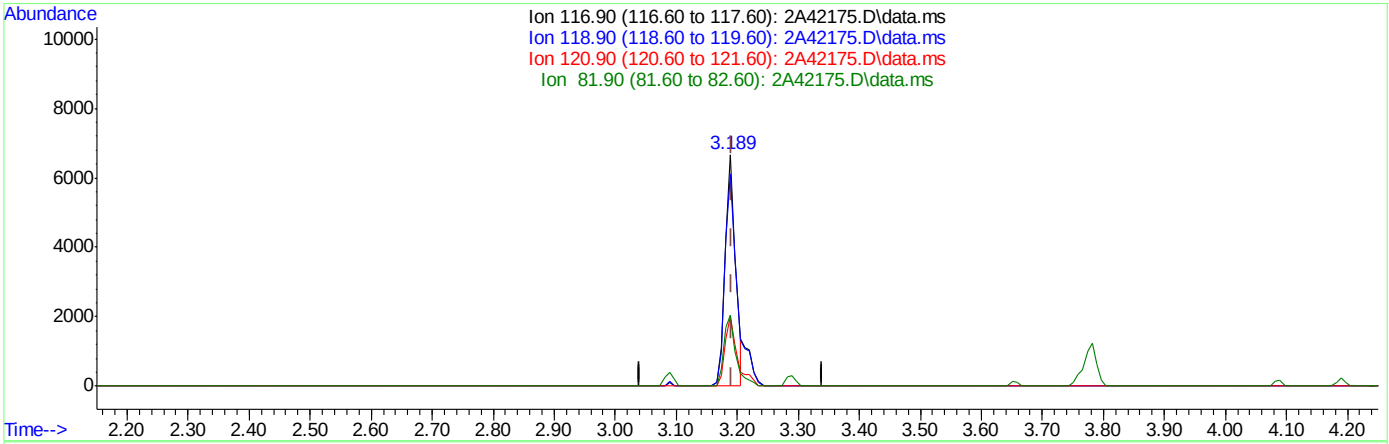
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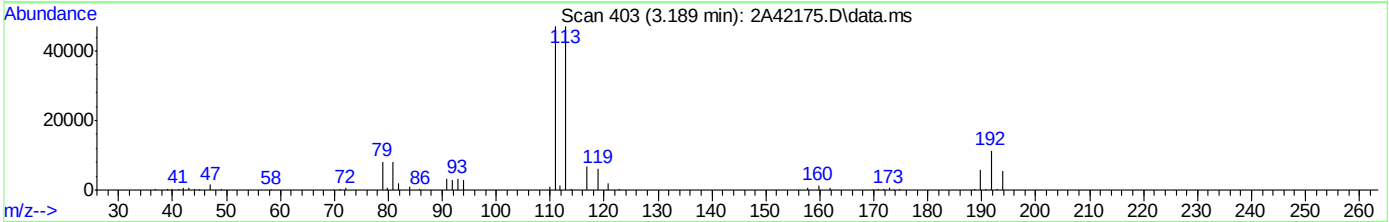
Ion	Exp%	Act%
116.90	100	100
118.90	93.10	91.80
120.90	31.00	30.18
81.90	24.60	30.51

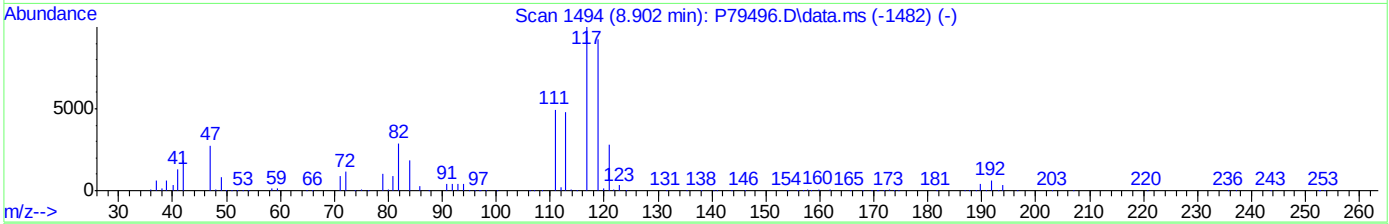
Quantitation Report (Qedit)

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ALS Vial : 53 Sample Multiplier: 1

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TIC: 2A42175.D\data.ms

(40) Carbon Tetrachloride ( )

3.189min (-0.002) 4.91ug/L m

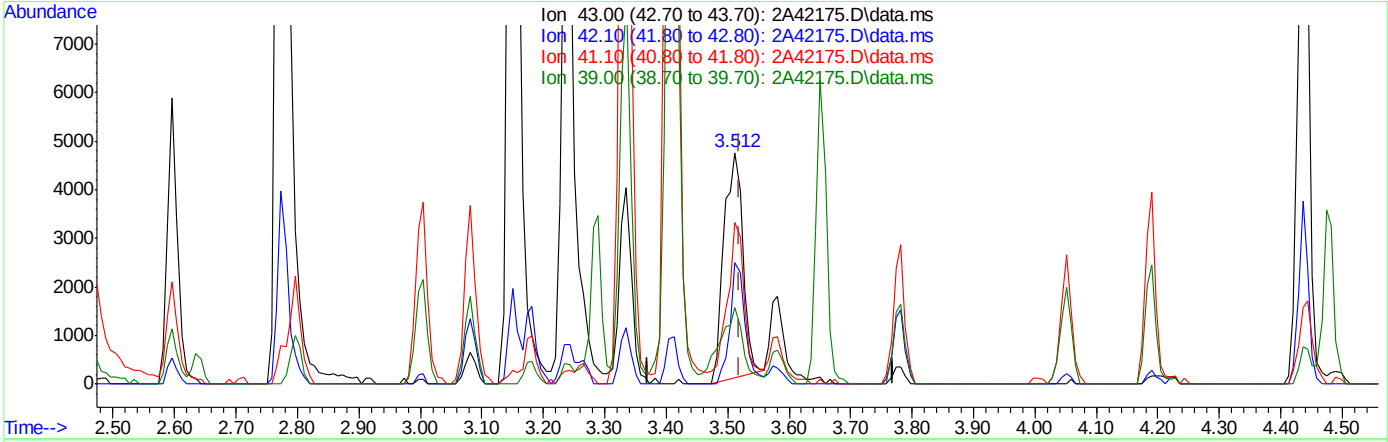
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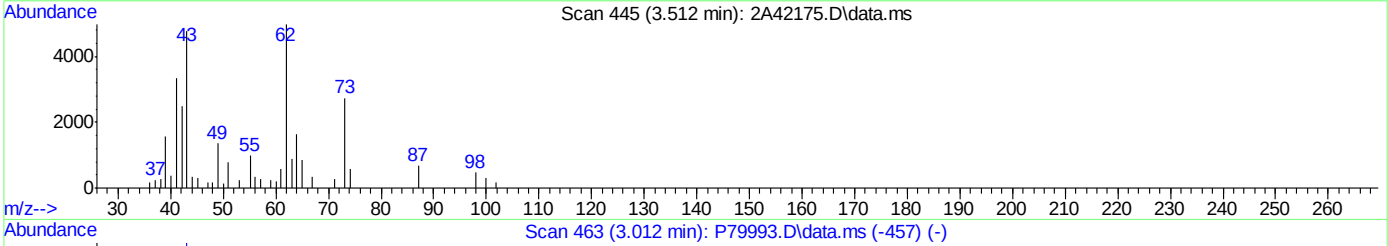
Ion	Exp%	Act%
116.90	100	100
118.90	93.10	91.80
120.90	31.00	30.18
81.90	24.60	30.51

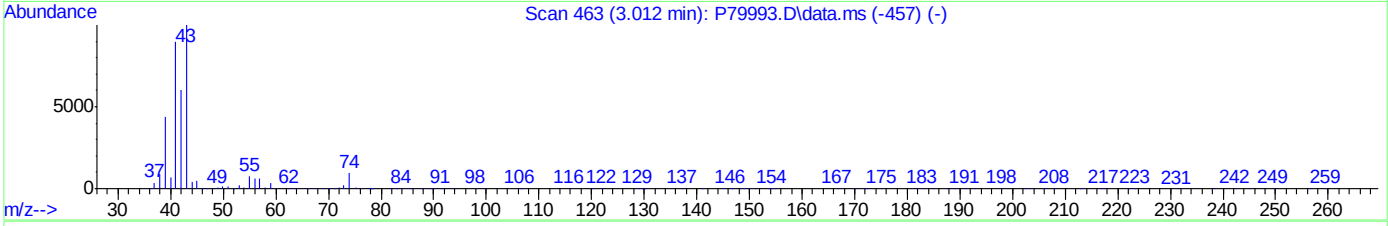
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
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TIC: 2A42175.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.008) 60.31ug/L

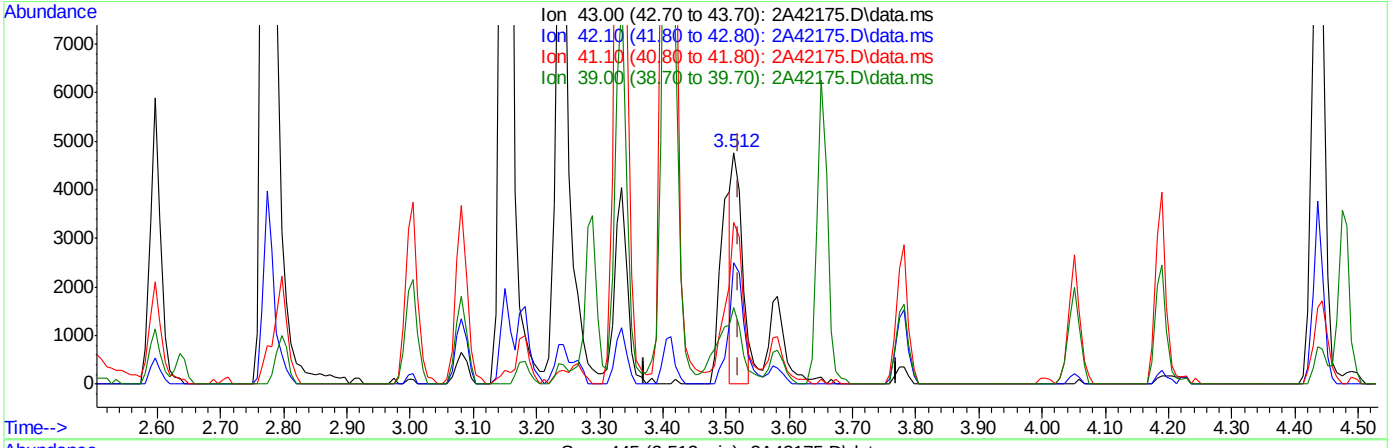
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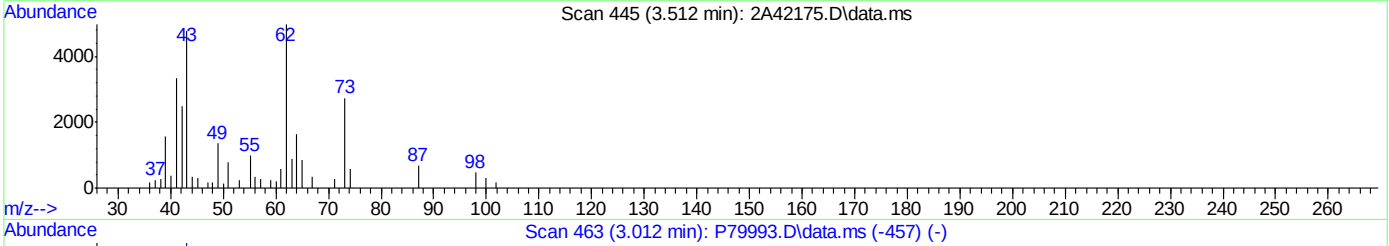
Ion	Exp%	Act%
43.00	100	100
42.10	57.60	52.53
41.10	77.70	64.20
39.00	33.60	29.93

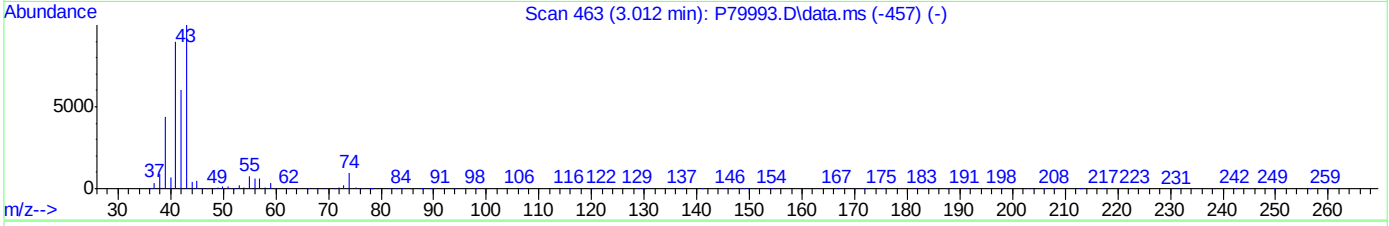
Quantitation Report (Qedit)

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Data File : 2A42175.D
Acq On : 16 Dec 2022 10:43 am
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Misc : MS53004,V2A1677,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 16 14:17:00 2022
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Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42175.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.008) 31.96ug/L m

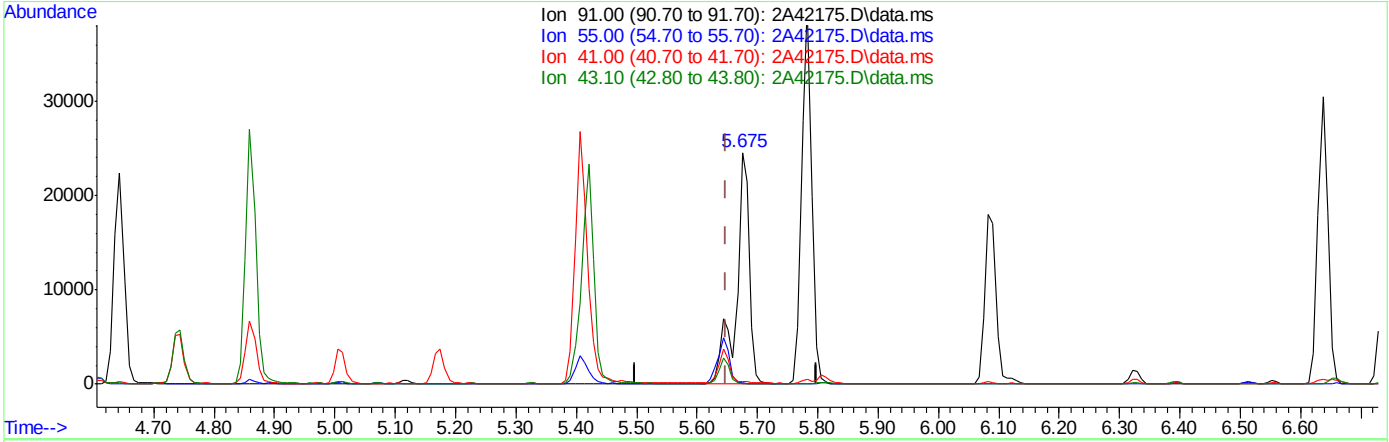
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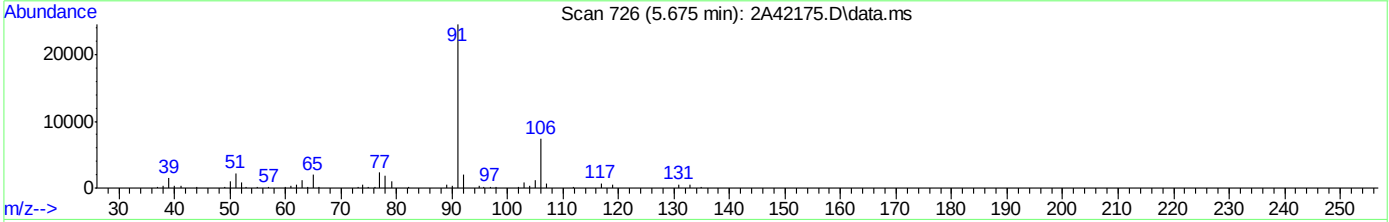
Ion	Exp%	Act%
43.00	100	100
42.10	57.60	52.53
41.10	77.70	69.84
39.00	33.60	33.10

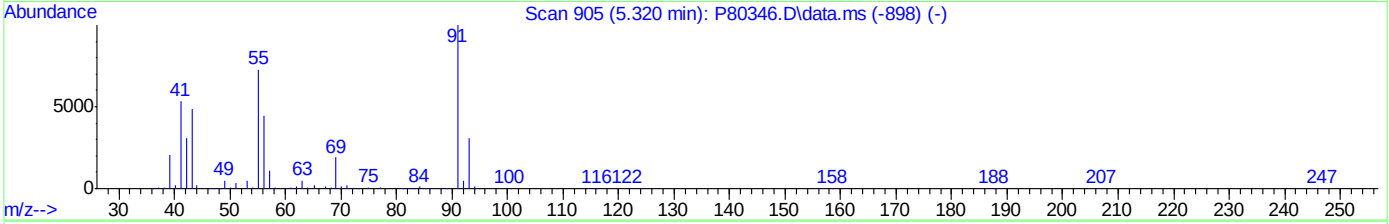
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42175.D
Acq On : 16 Dec 2022 10:43 am
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Misc : MS53004,V2A1677,,,,,
ALS Vial : 53 Sample Multiplier: 1

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Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42175.D\data.ms

(76) 1-Chlorohexane

5.675min (+0.026) 21.75ug/L

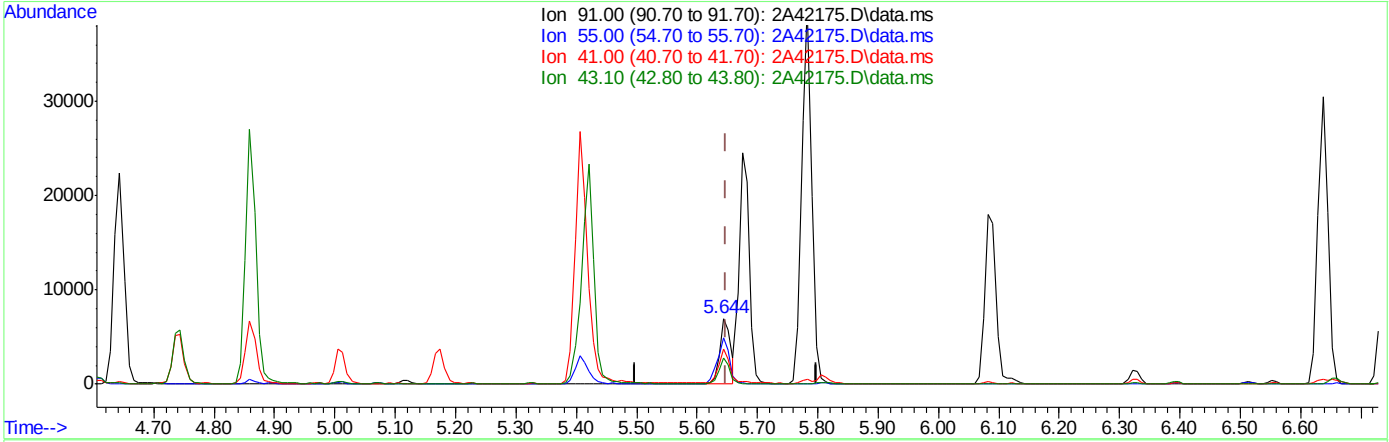
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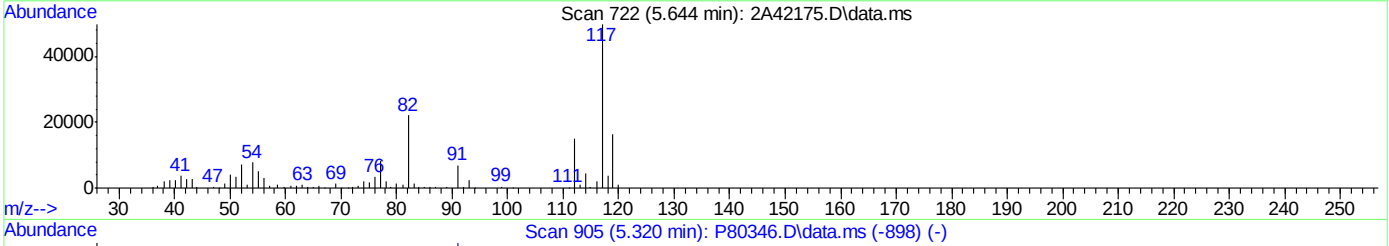
Ion	Exp%	Act%
91.00	100	100
55.00	67.70	0.42#
41.00	60.00	0.88#
43.10	48.60	0.00#

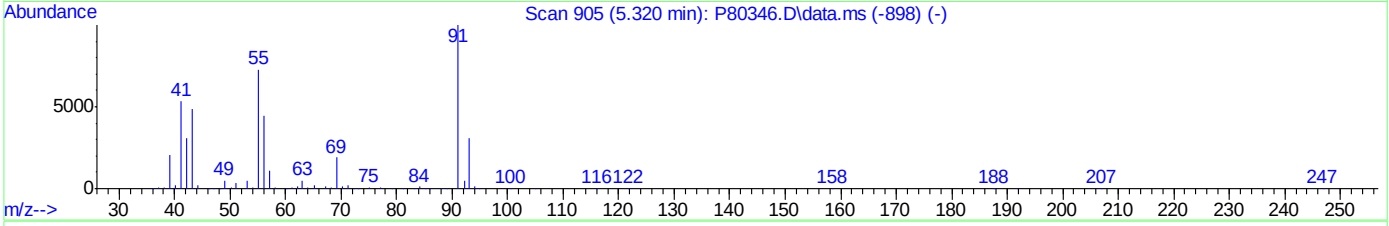
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42175.D
Acq On : 16 Dec 2022 10:43 am
Operator : joannel
Sample : IC1677-2
Misc : MS53004,V2A1677,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 16 14:17:00 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42175.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.005) 5.07ug/L m

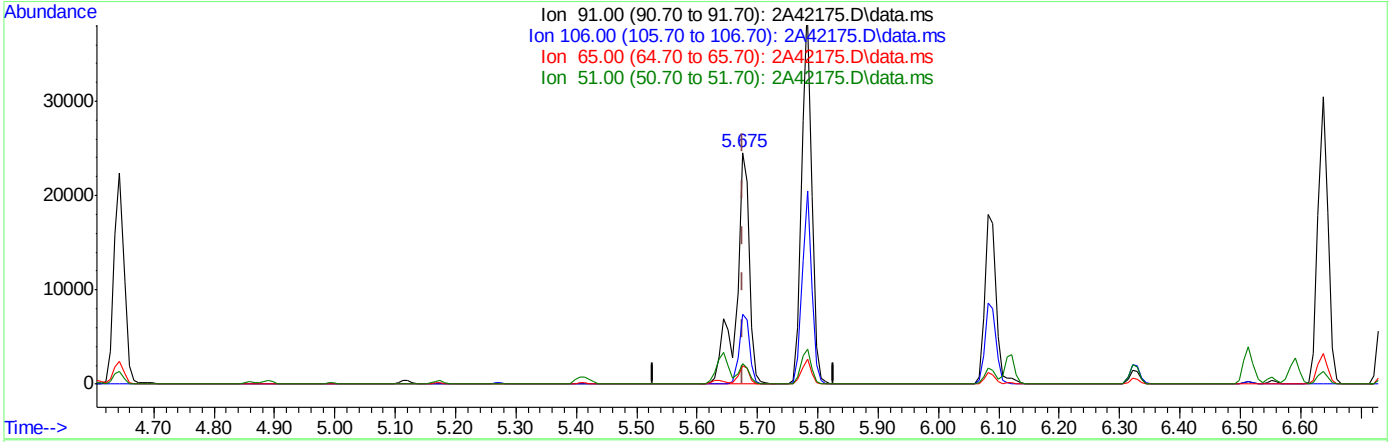
response 8850

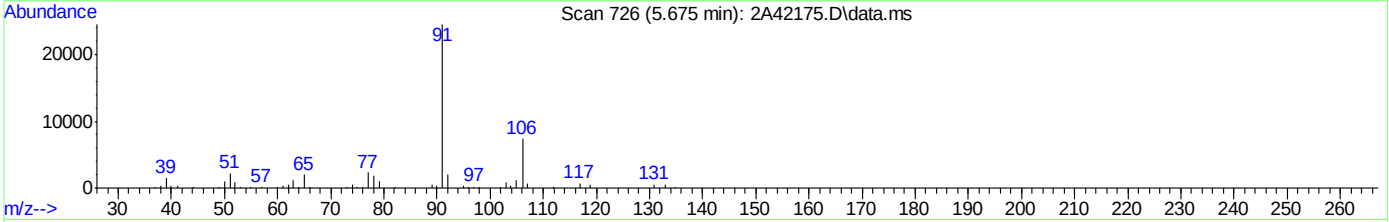
Ion	Exp%	Act%
91.00	100	100
55.00	67.70	71.00
41.00	60.00	53.16
43.10	48.60	40.32

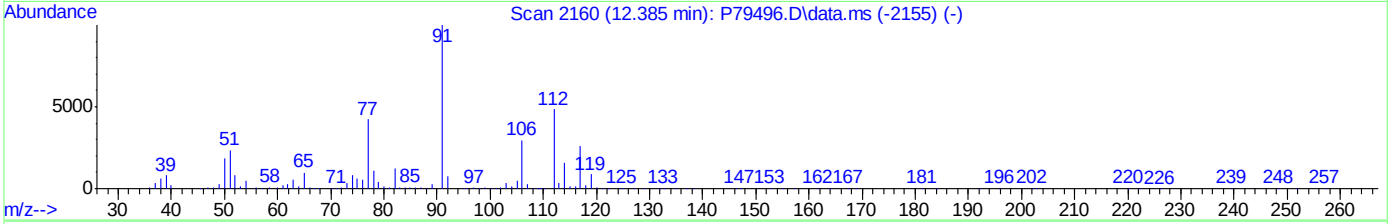
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42175.D
Acq On : 16 Dec 2022 10:43 am
Operator : joannel
Sample : IC1677-2
Misc : MS53004,V2A1677,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 16 14:17:00 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42175.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.002) 6.80ug/L

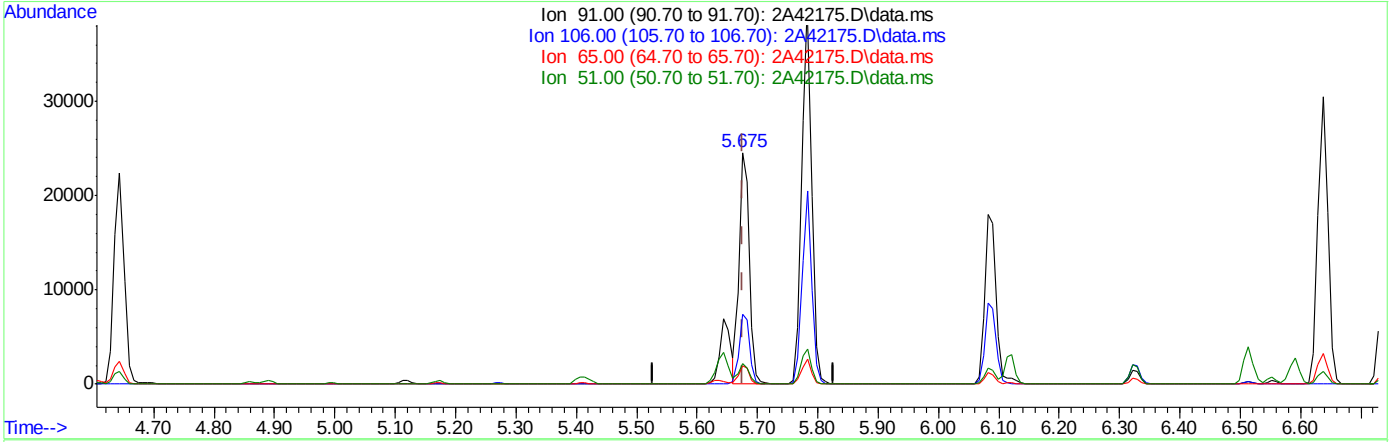
response 37946

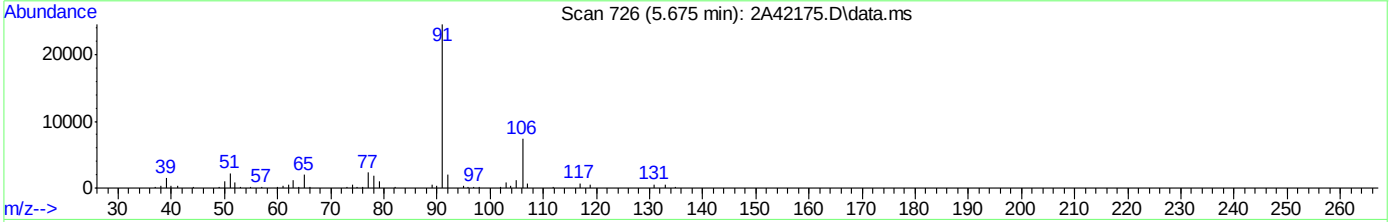
Ion	Exp%	Act%
91.00	100	100
106.00	31.90	30.11
65.00	8.70	7.99
51.00	11.10	9.04

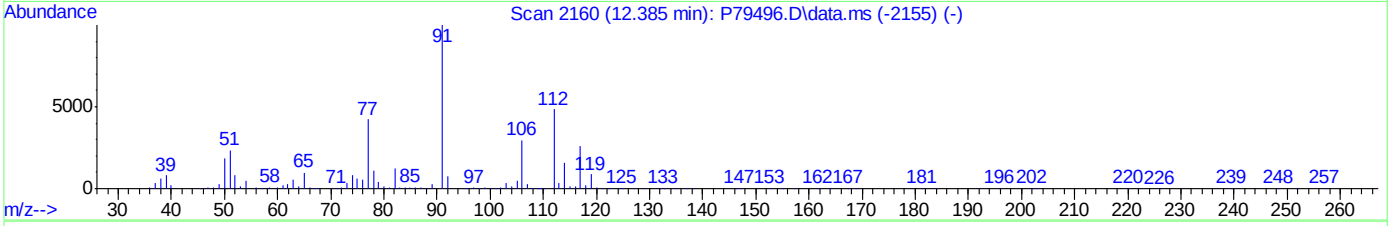
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42175.D
Acq On : 16 Dec 2022 10:43 am
Operator : joannel
Sample : IC1677-2
Misc : MS53004,V2A1677,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 16 14:17:00 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42175.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.002) 5.21ug/L m

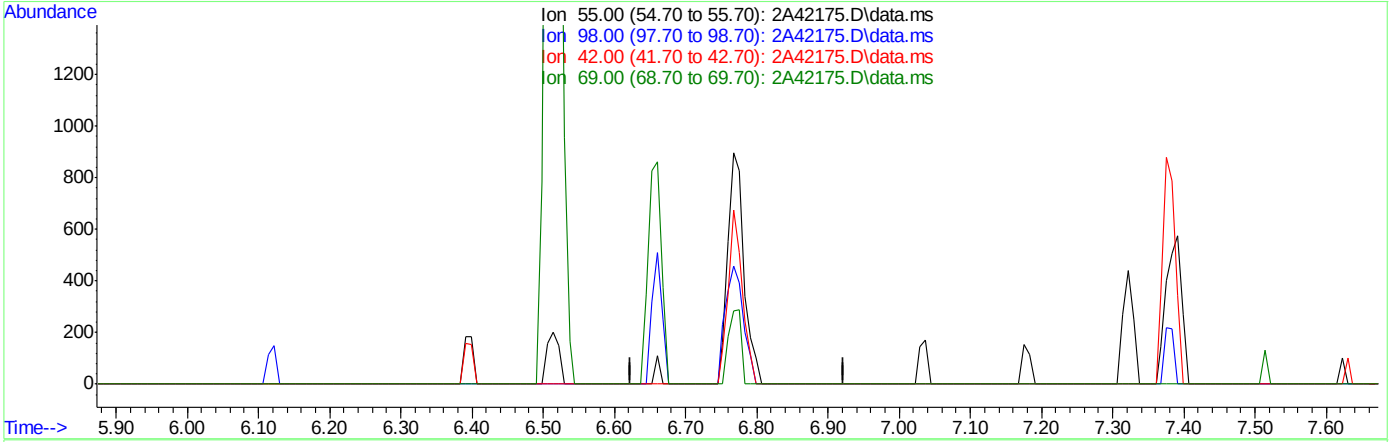
response 29091

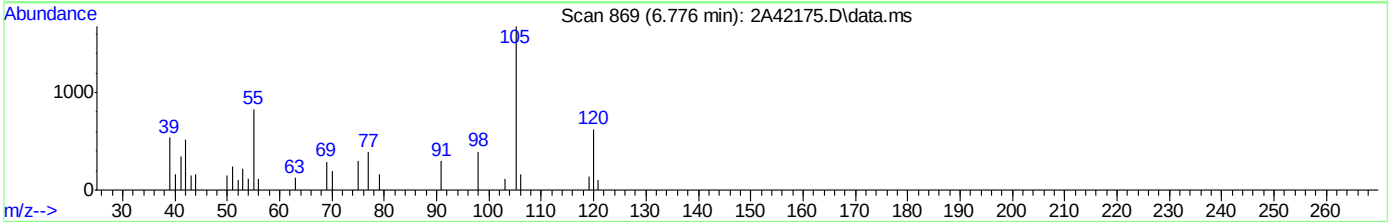
Ion	Exp%	Act%
91.00	100	100
106.00	31.90	30.11
65.00	8.70	7.99
51.00	11.10	9.04

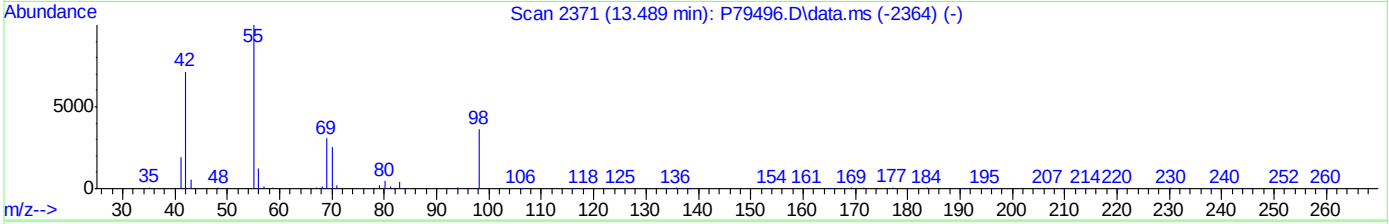
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42175.D
Acq On : 16 Dec 2022 10:43 am
Operator : joannel
Sample : IC1677-2
Misc : MS53004,V2A1677,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 16 14:17:00 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42175.D\data.ms

(95) Cyclohexanone

6.773min (-6.773) 0.00ug/L

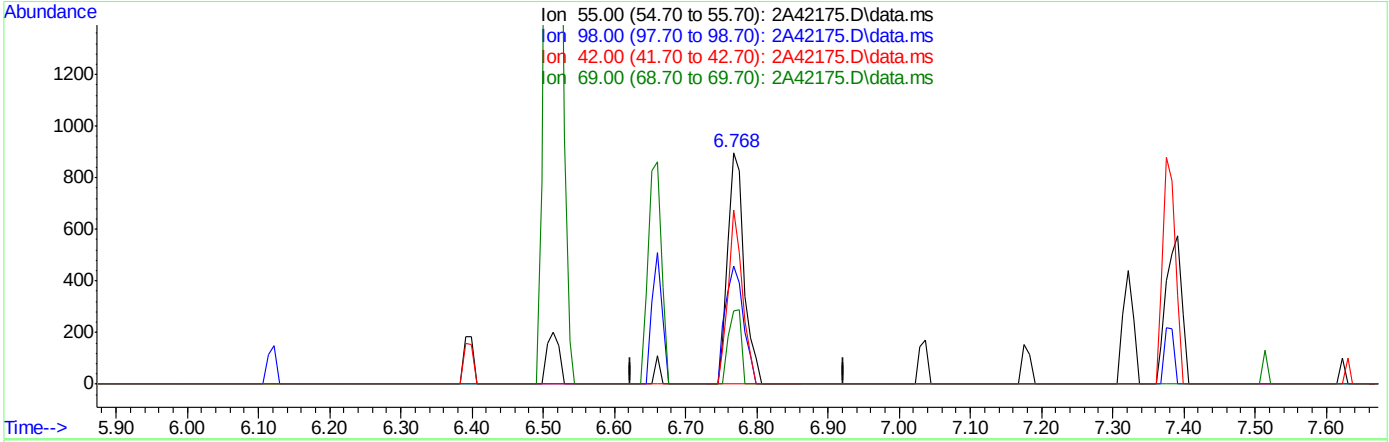
response 0

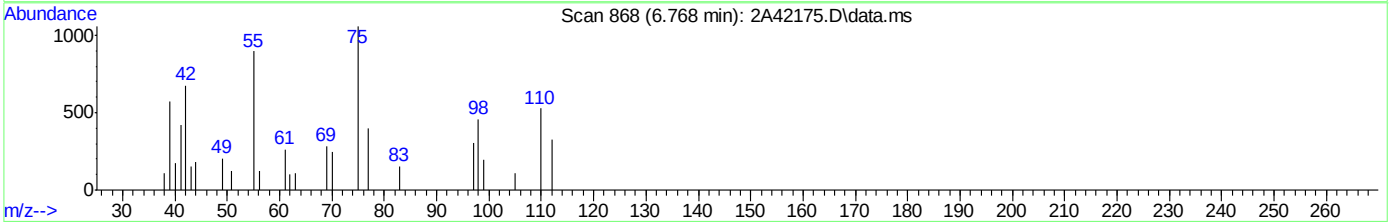
Ion	Exp%	Act%
55.00	100	0.00
98.00	44.70	0.00#
42.00	65.80	0.00#
69.00	24.30	0.00#

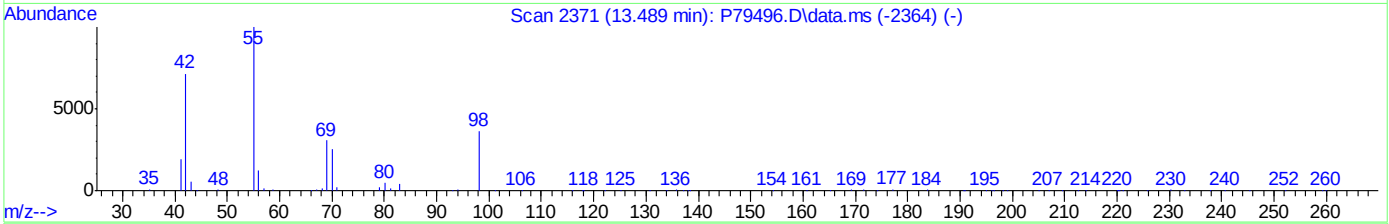
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42175.D
Acq On : 16 Dec 2022 10:43 am
Operator : joannel
Sample : IC1677-2
Misc : MS53004,V2A1677,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 16 14:17:00 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42175.D\data.ms

(95) Cyclohexanone

6.768min (-0.005) 10.89ug/L m

response 1414

Ion	Exp%	Act%
55.00	100	100
98.00	44.70	50.89
42.00	65.80	75.39
69.00	24.30	31.63

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 12/20/22 07:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42177.D
Acq On : 16 Dec 2022 11:19 am
Operator : joannel
Sample : IC1677-3
Misc : MS53004,V2A1677,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 16 14:34:20 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.651	96	211429	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.636	117	168735	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	95357	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.189	113	60849	53.03	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.06%				
49) 1,2-Dichloroethane-d4	3.481	65	67801	51.60	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.20%				
63) Toluene-d8	4.605	98	211996	55.98	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 111.96%				
86) 4-Bromofluorobenzene	6.514	174	79308	55.69	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 111.38%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.042	85	12928	12.55	ug/L		98
3) Chloromethane	1.165	50	10238m	7.69	ug/L		
4) 1,3-butadiene	1.226	39	7785	6.49	ug/L		96
5) Vinyl Chloride	1.219	62	10851	8.13	ug/L		91
6) Bromomethane	1.419	94	7256	7.95	ug/L		98
7) Chloroethane	1.496	64	5881	5.54	ug/L		83
8) Trichlorofluoromethane	1.588	101	16940	6.60	ug/L		98
9) Ethyl Ether	1.780	59	8000	6.48	ug/L		84
10) Ethanol	1.850	45	2754	117.57	ug/L		82
11) 1,2-Dichlorotrifluoroe...	1.880	67	12525	9.69	ug/L		98
12) 1,1-Dichloroethene	1.888	61	15293	8.75	ug/L		94
13) Freon 113	1.919	101	11592	9.63	ug/L		95
14) Carbon Disulfide	1.904	76	28834	9.02	ug/L		85
15) Iodomethane	1.965	142	16203	20.51	ug/L		89
16) Acrolein	2.057	56	11274	35.50	ug/L		99
17) Allyl chloride	2.150	41	12386	8.66	ug/L		96
18) Methylene Chloride	2.204	49	13624	8.93	ug/L		82
19) Acetone	2.219	43	17617	31.53	ug/L		93
20) Methyl acetate	2.304	43	42249	23.38	ug/L		88
21) trans-1,2-Dichloroethene	2.304	61	14863	8.93	ug/L		96
22) Hexane	2.373	56	8722	8.00	ug/L	#	89
23) Methyl Tert Butyl Ether	2.373	73	30950	9.85	ug/L		77
24) Acetonitrile	2.373	41	16568m	69.59	ug/L		
25) Tert Butyl Alcohol	2.404	59	22283	67.85	ug/L		87
26) Di-isopropyl ether	2.596	45	26542	6.39	ug/L		93
27) Chloroprene	2.635	53	35250	8.16	ug/L		88
28) 1,1-Dichloroethane	2.642	63	18765	8.87	ug/L		99
29) Acrylonitrile	2.635	52	22045	32.18	ug/L	#	73
30) ETBE	2.796	59	29711	7.68	ug/L		92
31) Vinyl acetate	2.773	43	91888	32.98	ug/L		99
32) cis-1,2-Dichloroethene	2.935	96	12412	9.88	ug/L		90
33) 2,2-Dichloropropane	3.004	77	17224	10.44	ug/L		99
34) Bromochloromethane	3.043	128	6359	11.26	ug/L		87
35) Cyclohexane	3.081	56	16609	8.01	ug/L	#	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42177.D
Acq On : 16 Dec 2022 11:19 am
Operator : joannel
Sample : IC1677-3
Misc : MS53004,V2A1677,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 16 14:34:20 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.089	83	20742	9.62	ug/L		95
37) Ethyl acetate	3.150	43	56807	25.82	ug/L		95
38) Tetrahydrofuran	3.173	42	3709	4.74	ug/L		87
40) Carbon Tetrachloride	3.189	117	15544m	9.35	ug/L		
41) 1,1,1-Trichloroethane	3.212	97	18231	10.16	ug/L		99
42) 2-Butanone	3.235	43	31220	28.43	ug/L		86
43) 1,1-Dichloropropene	3.289	75	15395	10.27	ug/L		86
44) tert-Butyl formate	3.335	59	43125	48.25	ug/L		92
45) Propionitrile	3.381	54	18649	57.01	ug/L		98
46) Methacrylonitrile	3.404	41	68286	51.88	ug/L		99
47) Benzene	3.420	78	43511	8.89	ug/L		71
48) TAME	3.497	73	29148	9.12	ug/L		87
50) 1,2-Dichloroethane	3.520	62	15088	8.29	ug/L		92
51) Isobutyl Alcohol	3.512	43	11135m	65.41	ug/L		
52) Tert Amyl Alcohol	3.581	59	15576	52.73	ug/L		86
53) Trichloroethene	3.758	95	12312	9.16	ug/L		96
54) Methylcyclohexane	3.781	83	18723	9.51	ug/L	#	84
55) Dibromomethane	3.989	93	7999	9.17	ug/L		93
56) 1,2-Dichloropropane	4.051	63	10664	8.26	ug/L		91
57) Bromodichloromethane	4.089	83	14640	9.48	ug/L		95
58) Methyl methacrylate	4.189	41	9456	6.09	ug/L		85
59) 1,4-Dioxane	4.205	88	3147	144.10	ug/L		89
60) 2-Chloroethyl vinyl ether	4.436	63	39182	40.67	ug/L		87
61) cis-1,3-Dichloropropene	4.474	75	17286	9.60	ug/L		86
64) Toluene	4.643	91	48662	10.11	ug/L		100
65) 2-Nitropropane	4.744	41	15715	29.82	ug/L		98
66) 4-Methyl-2-pentanone	4.859	43	62289	29.99	ug/L		95
67) trans-1,3-Dichloropropene	4.890	75	15232	9.60	ug/L		89
68) Tetrachloroethene	4.905	166	14054	10.62	ug/L		93
69) Ethyl methacrylate	5.005	69	14263	8.68	ug/L		83
70) 1,1,2-Trichloroethane	4.990	83	8849	9.59	ug/L		95
71) Dibromochloromethane	5.121	129	11831	9.26	ug/L		97
72) 1,3-Dichloropropane	5.174	76	17651	9.73	ug/L		82
73) 1,2-Dibromoethane	5.275	107	11756	9.61	ug/L		96
74) 3,3-Dimethyl-1-Butanol	5.405	57	87477	245.58	ug/L		89
75) 2-hexanone	5.421	43	62500	26.40	ug/L	#	67
76) 1-Chlorohexane	5.644	91	17296m	9.80	ug/L		
77) Ethylbenzene	5.675	91	55366m	9.81	ug/L		
78) Chlorobenzene	5.644	112	32513	9.59	ug/L		95
79) 1,1,1,2-Tetrachloroethane	5.690	131	10989	8.55	ug/L		90
80) m,p-Xylene	5.782	91	87999	19.73	ug/L		98
81) o-Xylene	6.083	91	45117	10.42	ug/L		97
82) Styrene	6.121	104	35380	10.27	ug/L		96
83) Bromoform	6.121	173	8230	10.06	ug/L		98
84) Isopropylbenzene	6.329	105	55675	10.38	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.552	53	4508	5.90	ug/L	#	66
88) n-Propylbenzene	6.637	91	66034	9.23	ug/L		100
89) Bromobenzene	6.591	156	15292	9.78	ug/L		94
90) 1,1,2,2-Tetrachloroethane	6.660	83	15780	8.09	ug/L		99
91) 1,3,5-Trimethylbenzene	6.791	105	46981	8.90	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42177.D
Acq On : 16 Dec 2022 11:19 am
Operator : joannel
Sample : IC1677-3
Misc : MS53004,V2A1677,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 16 14:34:20 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

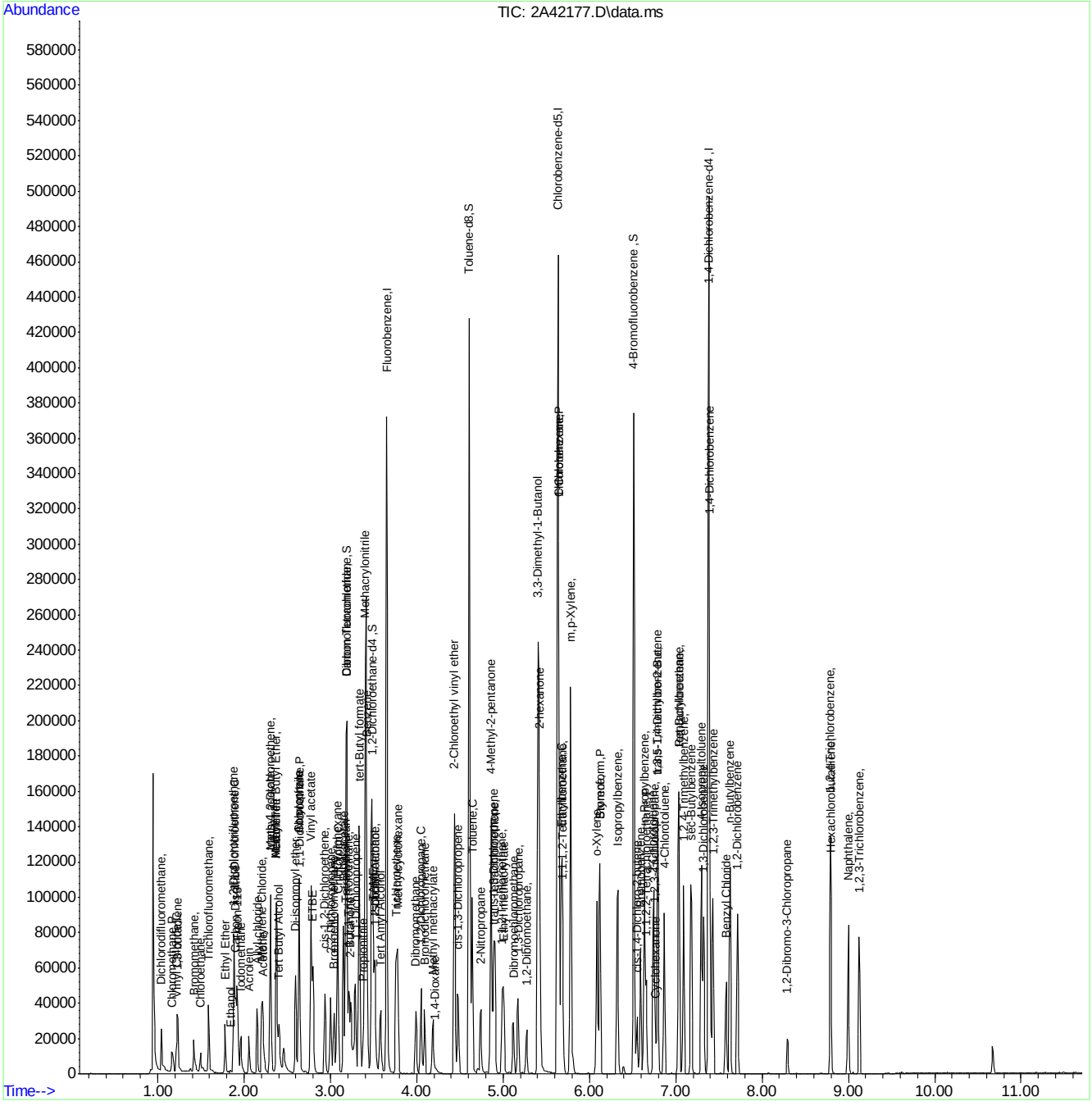
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.737	91	37765	9.40	ug/L		94
93)	trans-1,4-Dichloro-2-B...	6.791	53	5274	6.21	ug/L	#	74
94)	1,2,3-Trichloropropane	6.752	110	4955	7.65	ug/L		94
95)	Cyclohexanone	6.768	55	2776	20.77	ug/L		93
96)	4-Chlorotoluene	6.868	91	38939	9.10	ug/L		96
97)	tert-Butylbenzene	7.037	91	26893	9.30	ug/L		93
98)	1,2,4-Trimethylbenzene	7.091	105	44219	8.70	ug/L		98
99)	Pentachloroethane	7.037	167	7213	8.78	ug/L	#	60
100)	sec-Butylbenzene	7.176	105	59128	9.28	ug/L		97
101)	4-Isopropyltoluene	7.299	119	50912	9.16	ug/L		99
102)	1,3-Dichlorobenzene	7.322	146	27849	9.43	ug/L		99
103)	1,2,3-Trimethylbenzene	7.430	105	42890	8.71	ug/L		98
104)	1,4-Dichlorobenzene	7.391	146	28353	8.85	ug/L		93
105)	n-Butylbenzene	7.630	92	25077	9.05	ug/L		99
106)	Benzyl Chloride	7.583	126	6178	8.47	ug/L		99
107)	1,2-Dichlorobenzene	7.714	146	26202	9.53	ug/L		97
108)	1,2-Dibromo-3-Chloropr...	8.292	75	3487	8.06	ug/L		85
109)	Hexachlorobutadiene	8.799	225	10206	13.97	ug/L	#	77
110)	1,2,4-Trichlorobenzene	8.792	180	17107	10.74	ug/L		94
111)	Naphthalene	9.000	128	43306	8.04	ug/L		97
112)	1,2,3-Trichlorobenzene	9.123	180	16274	11.20	ug/L		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42177.D
Acq On : 16 Dec 2022 11:19 am
Operator : joannel
Sample : IC1677-3
Misc : MS53004,V2A1677,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 16 14:34:20 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration



Manual Integration Approval Summary

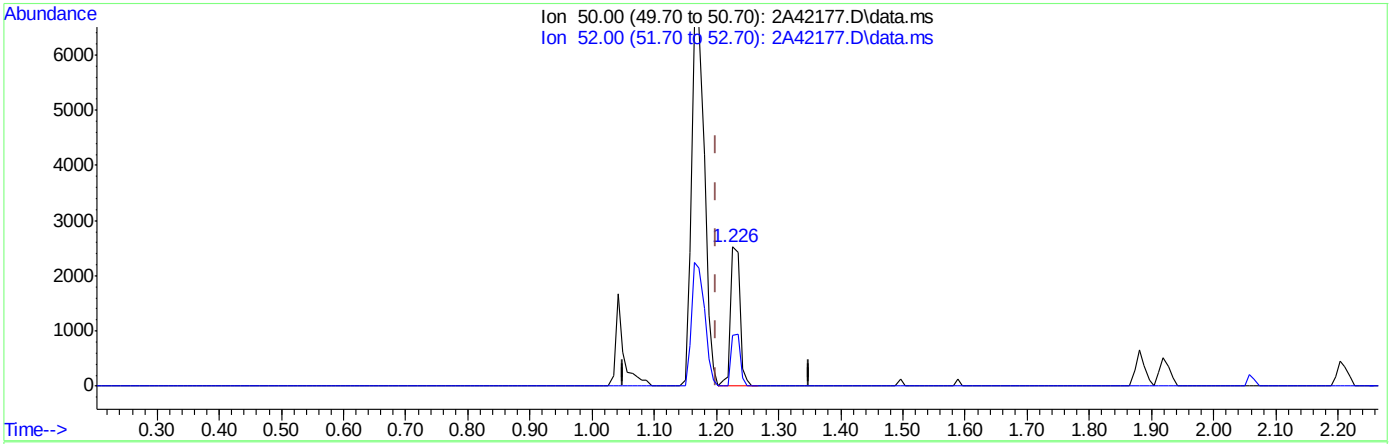
Sample Number: V2A1677-IC1677
Lab FileID: 2A42177.D
Injection Time: 12/16/22 11:19
Method: SW846 8260D
Analyst approved: 12/19/22 09:22 Jo-Ann Lugo De Jesus
Supervisor approved: 12/20/22 07:54 Neil Christiana

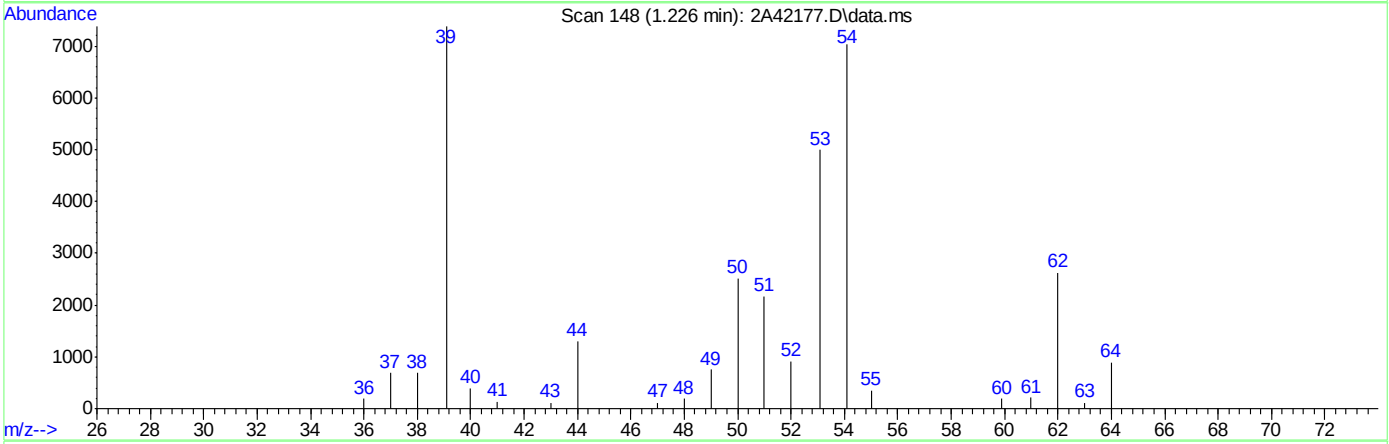
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		1.16	Poor instrument integration
Acetonitrile	75-05-8		2.37	Overlapping peak
Carbon Tetrachloride	56-23-5		3.19	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration
Ethylbenzene	100-41-4		5.67	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42177.D
Acq On : 16 Dec 2022 11:19 am
Operator : joannel
Sample : IC1677-3
Misc : MS53004,V2A1677,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 16 14:17:02 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42177.D\data.ms

(3) Chloromethane (P)

1.226min (+0.026) 1.94ug/L

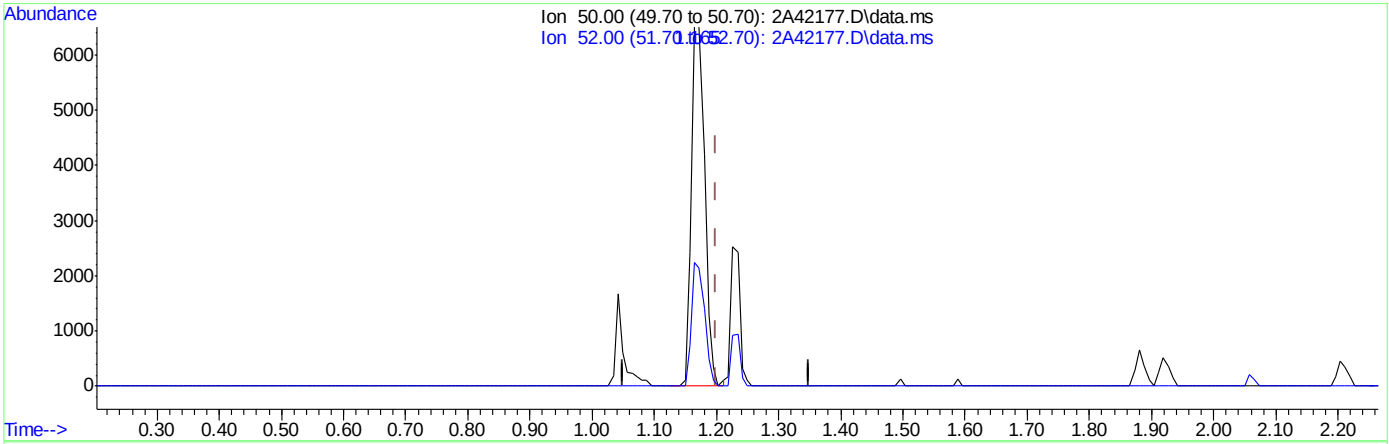
response 2611

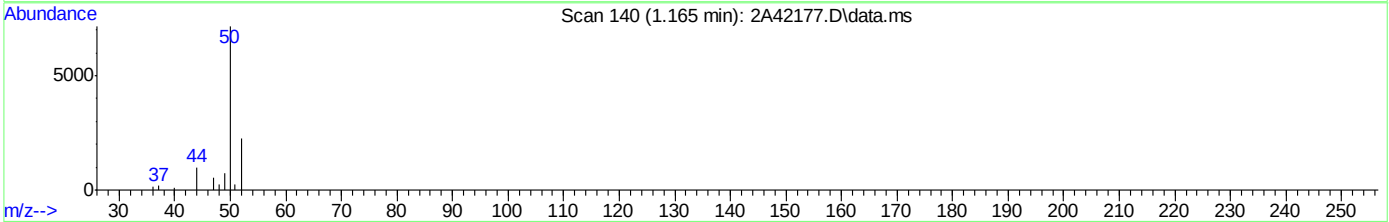
Ion	Exp%	Act%
50.00	100	100
52.00	31.60	36.29
0.00	0.00	0.00
0.00	0.00	0.00

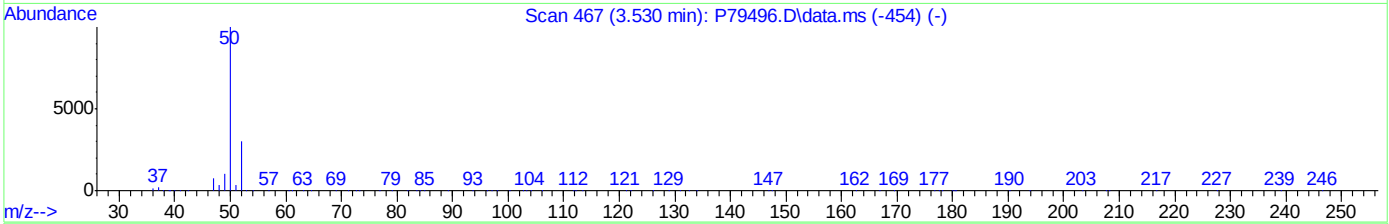
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42177.D
Acq On : 16 Dec 2022 11:19 am
Operator : joannel
Sample : IC1677-3
Misc : MS53004,V2A1677,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 16 14:17:02 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42177.D\data.ms

(3) Chloromethane (P)

1.165min (-0.035) 7.69ug/L m

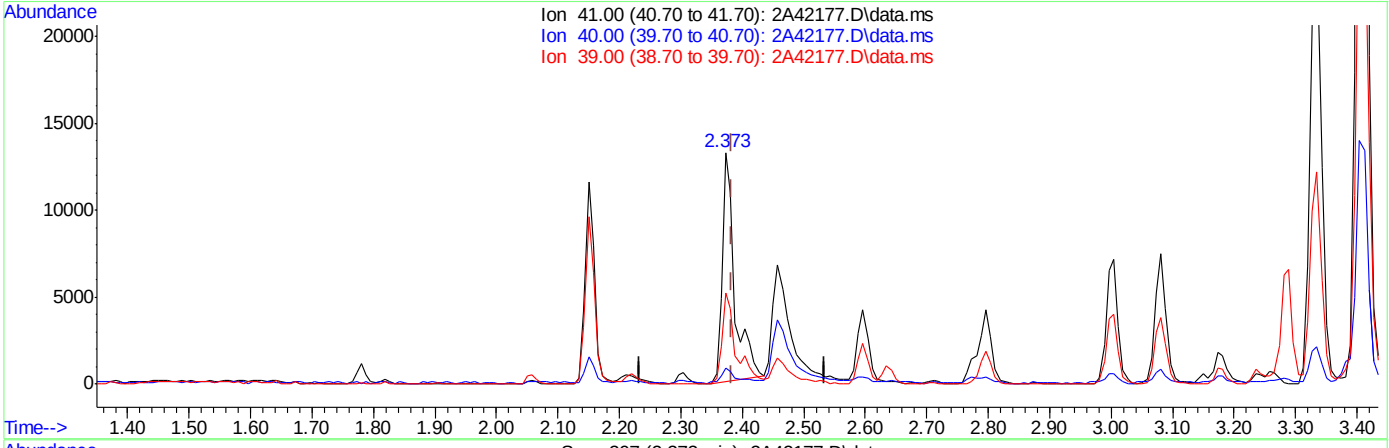
response 10238

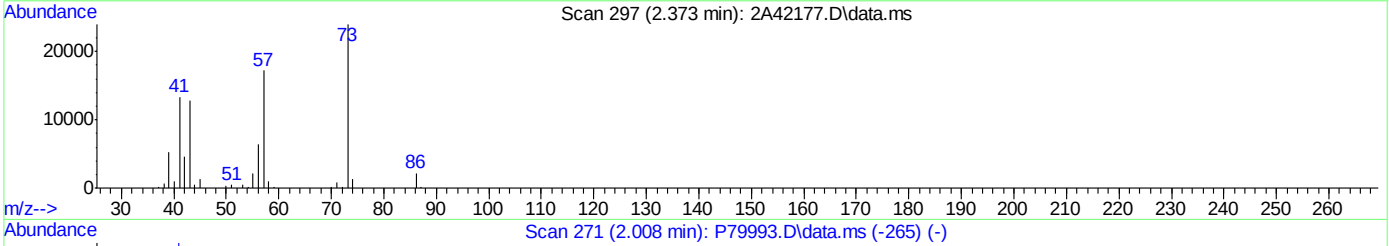
Ion	Exp%	Act%
50.00	100	100
52.00	31.60	31.37
0.00	0.00	0.00
0.00	0.00	0.00

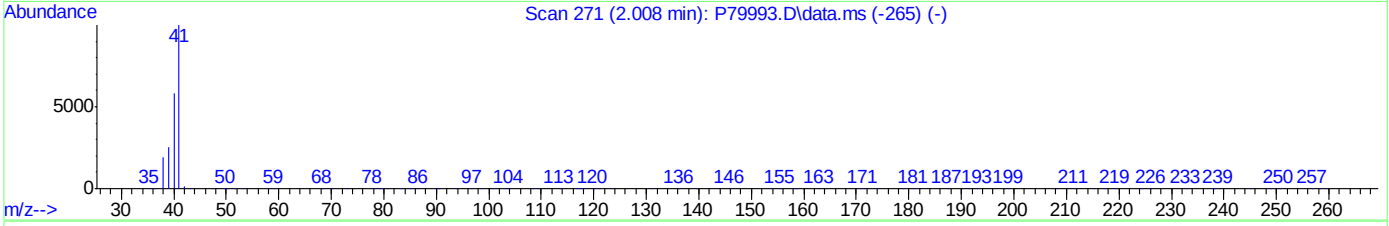
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42177.D
Acq On : 16 Dec 2022 11:19 am
Operator : joannel
Sample : IC1677-3
Misc : MS53004,V2A1677,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 16 14:17:02 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42177.D\data.ms

(24) Acetonitrile

2.373min (-0.011) 80.38ug/L

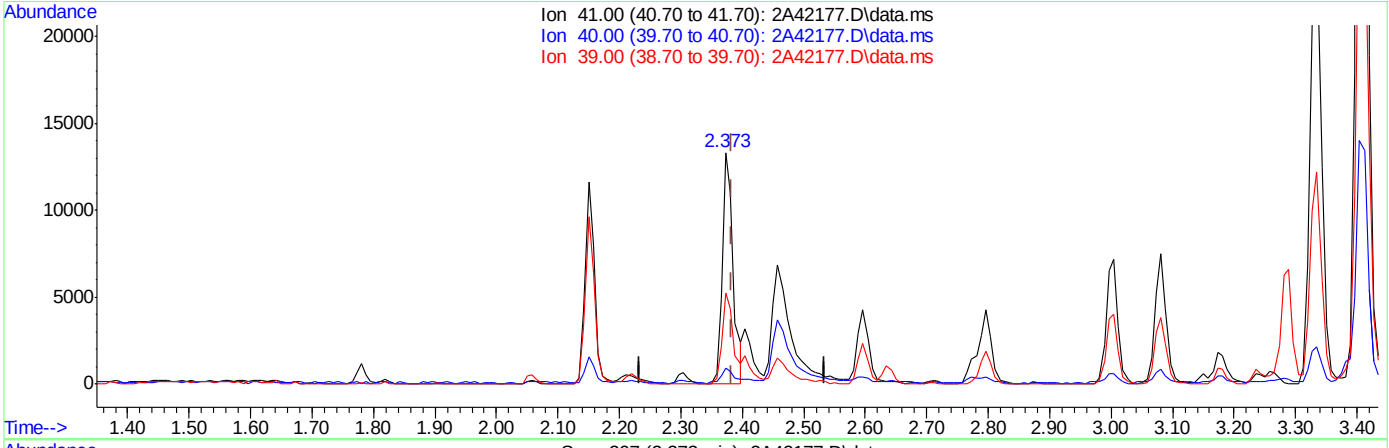
response 19110

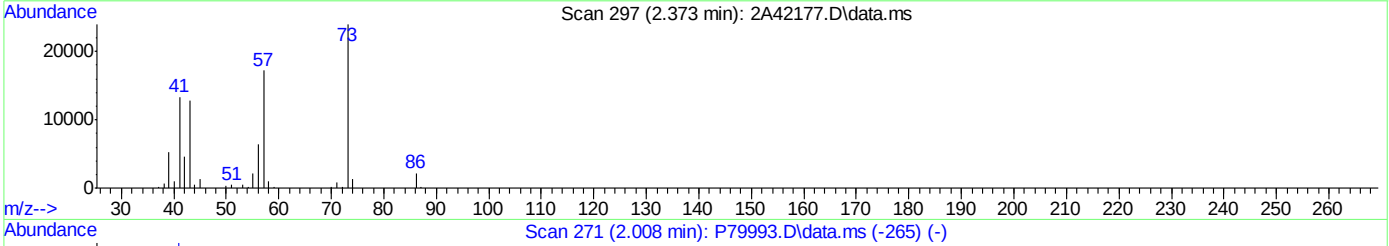
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	5.91
39.00	38.20	39.52
0.00	0.00	0.00

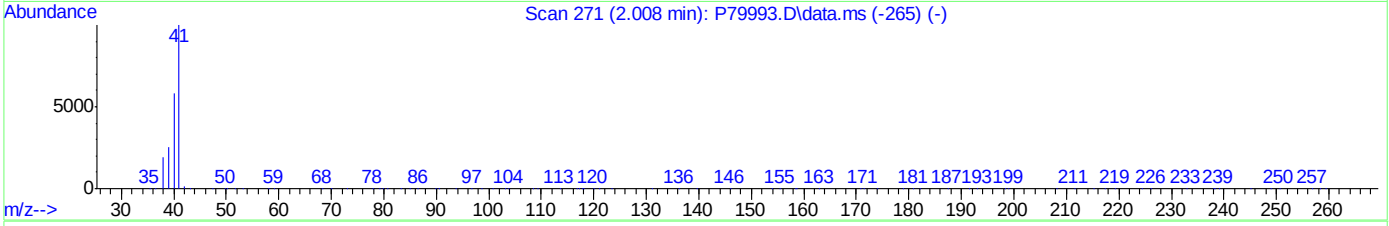
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42177.D
Acq On : 16 Dec 2022 11:19 am
Operator : joannel
Sample : IC1677-3
Misc : MS53004,V2A1677,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 16 14:17:02 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42177.D\data.ms

(24) Acetonitrile

2.373min (-0.011) 69.59ug/L m

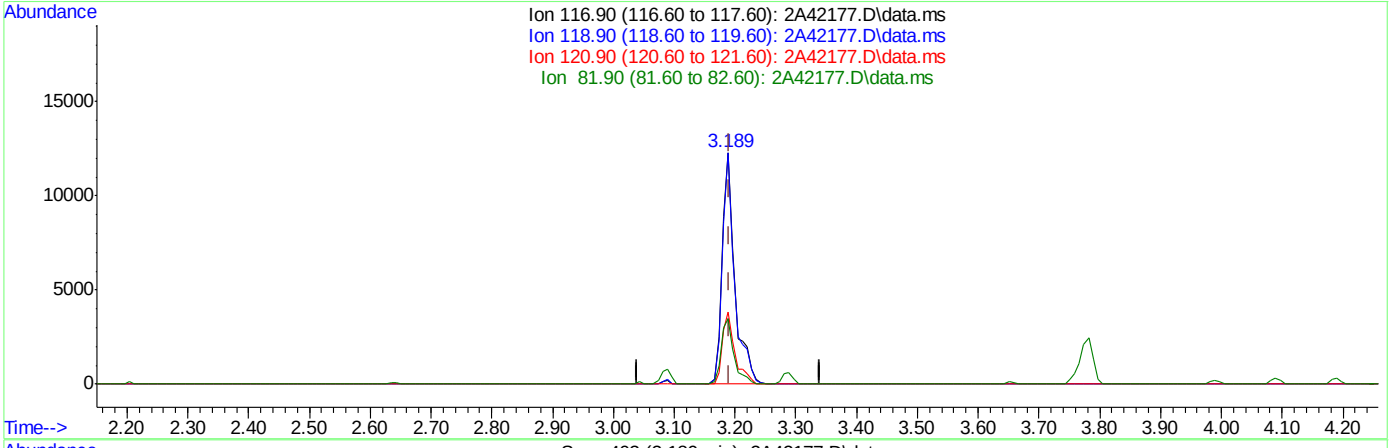
response 16568

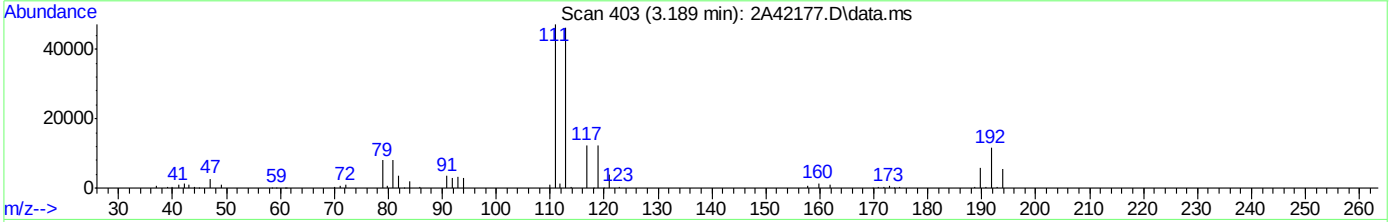
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.92
39.00	38.20	39.52
0.00	0.00	0.00

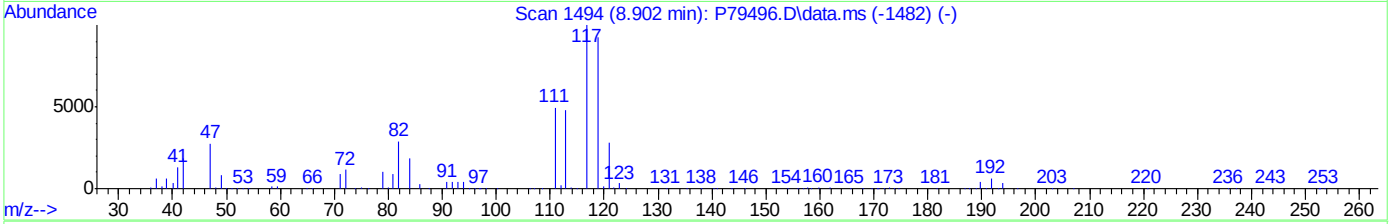
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42177.D
Acq On : 16 Dec 2022 11:19 am
Operator : joannel
Sample : IC1677-3
Misc : MS53004,V2A1677,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 16 14:17:02 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42177.D\data.ms

(40) Carbon Tetrachloride ( )

3.189min (-0.002) 10.85ug/L

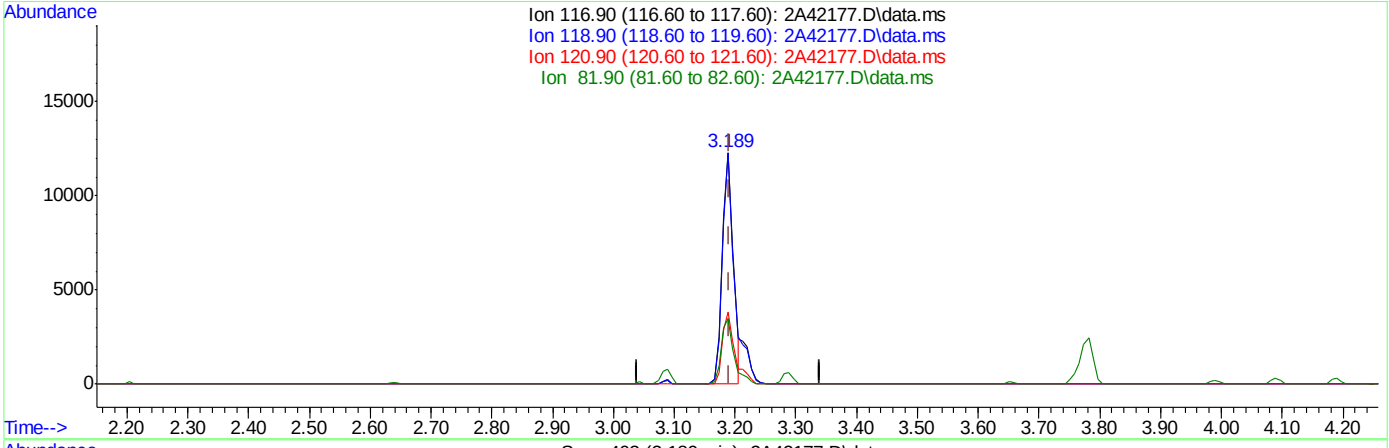
response 18054

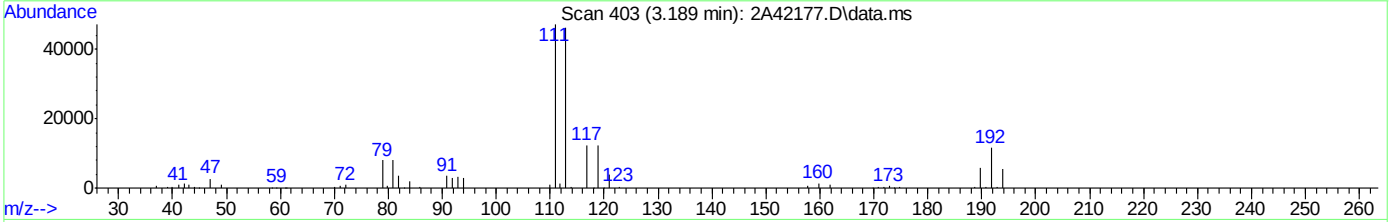
Ion	Exp%	Act%
116.90	100	100
118.90	93.10	99.72
120.90	31.00	31.17
81.90	24.60	28.36

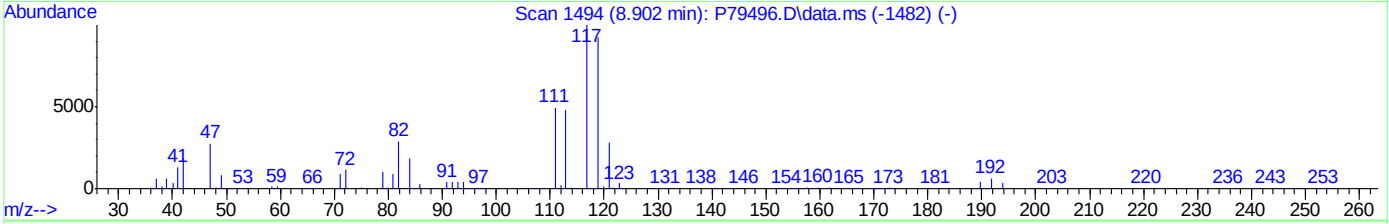
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42177.D
Acq On : 16 Dec 2022 11:19 am
Operator : joannel
Sample : IC1677-3
Misc : MS53004,V2A1677,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 16 14:17:02 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42177.D\data.ms

(40) Carbon Tetrachloride ( )

3.189min (-0.002) 9.35ug/L m

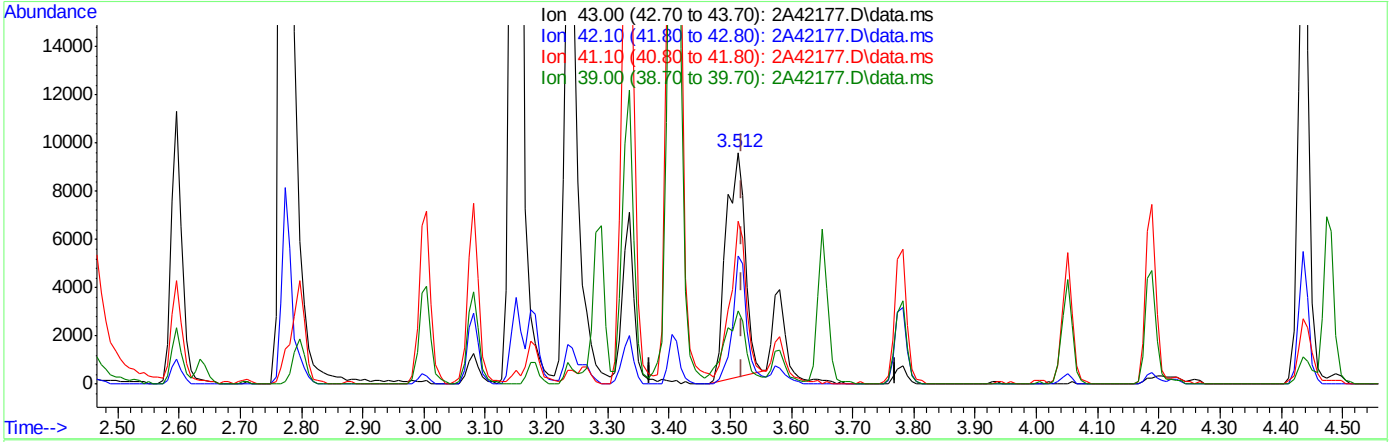
response 15544

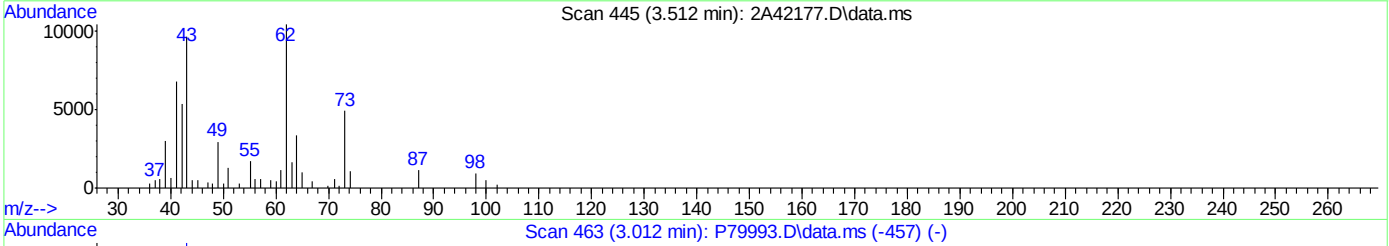
Ion	Exp%	Act%
116.90	100	100
118.90	93.10	99.72
120.90	31.00	31.17
81.90	24.60	28.36

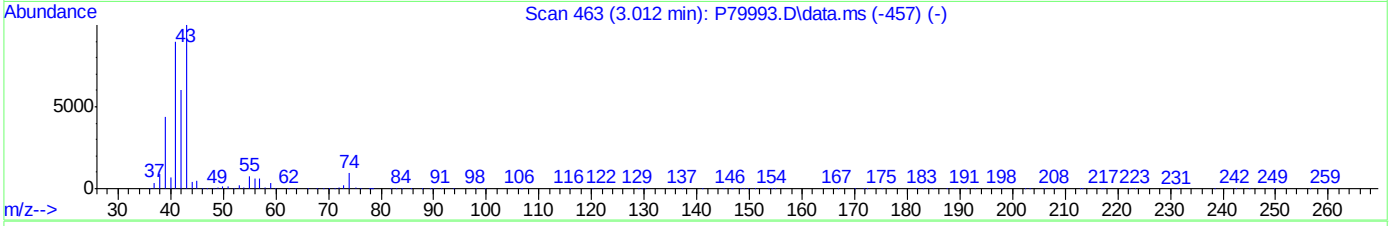
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42177.D
Acq On : 16 Dec 2022 11:19 am
Operator : joannel
Sample : IC1677-3
Misc : MS53004,V2A1677,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 16 14:17:02 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42177.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.008) 120.39ug/L

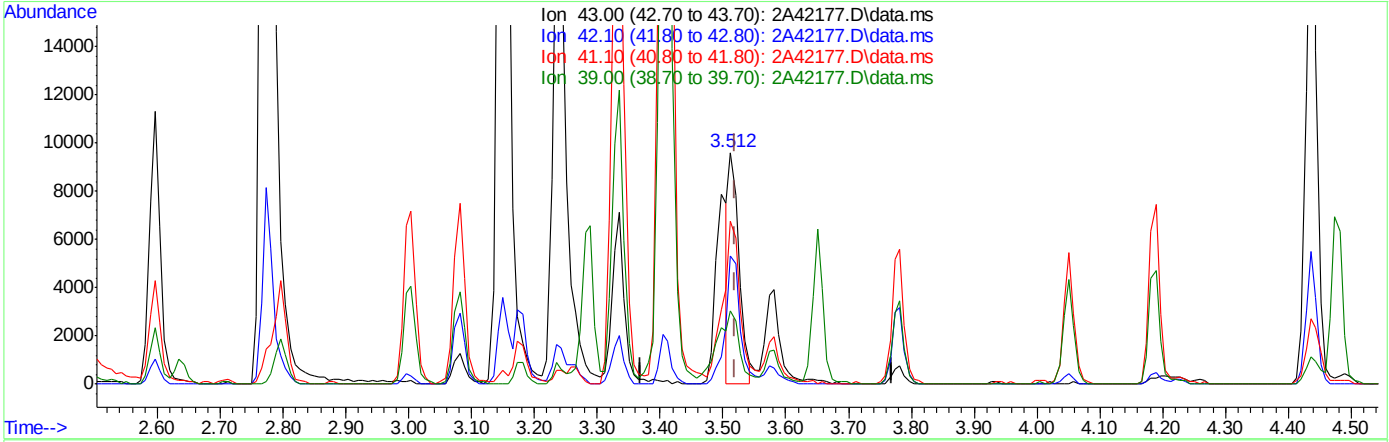
response 20228

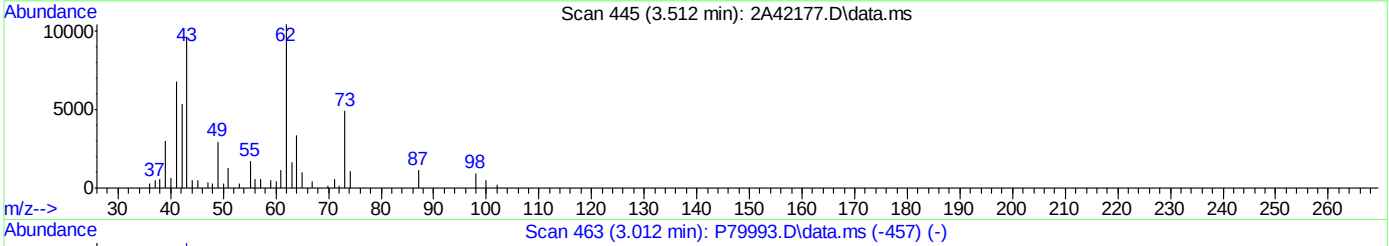
Ion	Exp%	Act%
43.00	100	100
42.10	57.60	55.36
41.10	77.70	65.91
39.00	33.60	28.54

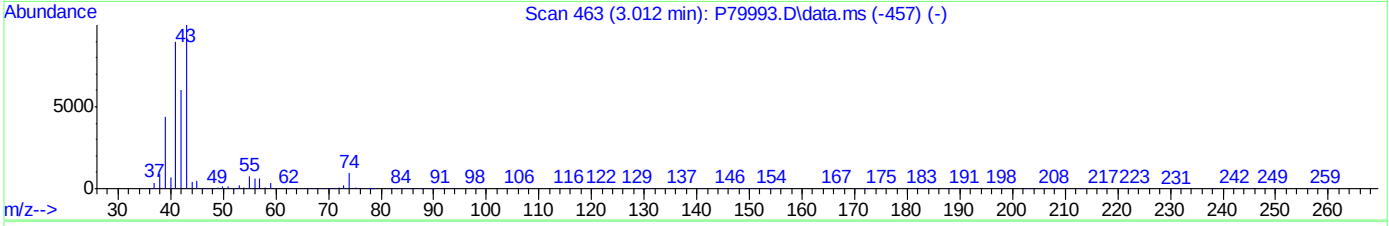
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42177.D
Acq On : 16 Dec 2022 11:19 am
Operator : joannel
Sample : IC1677-3
Misc : MS53004,V2A1677,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 16 14:17:02 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42177.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.008) 65.41ug/L m

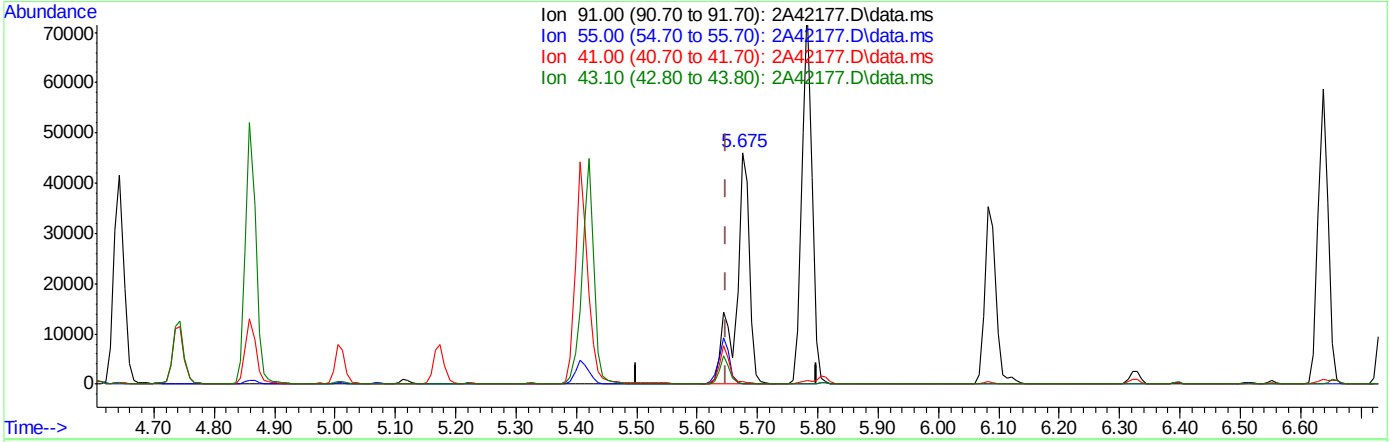
response 11135

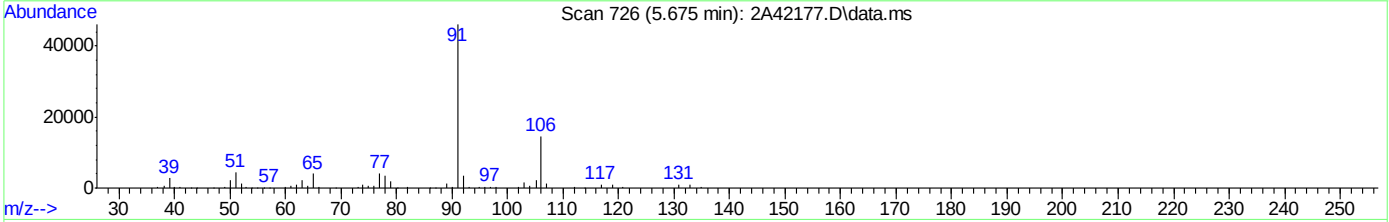
Ion	Exp%	Act%
43.00	100	100
42.10	57.60	55.36
41.10	77.70	70.52
39.00	33.60	31.41

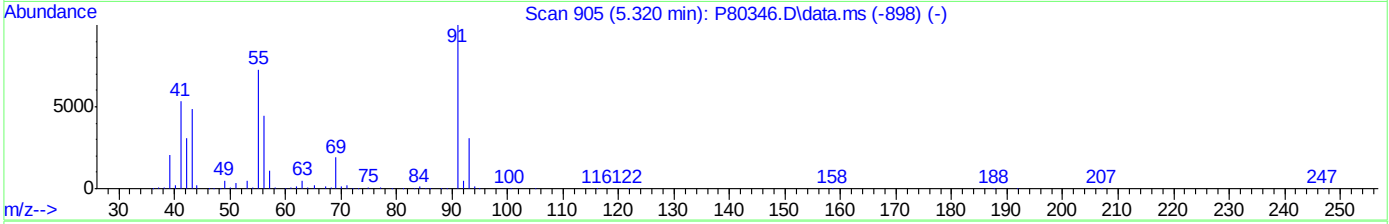
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42177.D
Acq On : 16 Dec 2022 11:19 am
Operator : joannel
Sample : IC1677-3
Misc : MS53004,V2A1677,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 16 14:17:02 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42177.D\data.ms

(76) 1-Chlorohexane

5.675min (+0.026) 41.16ug/L

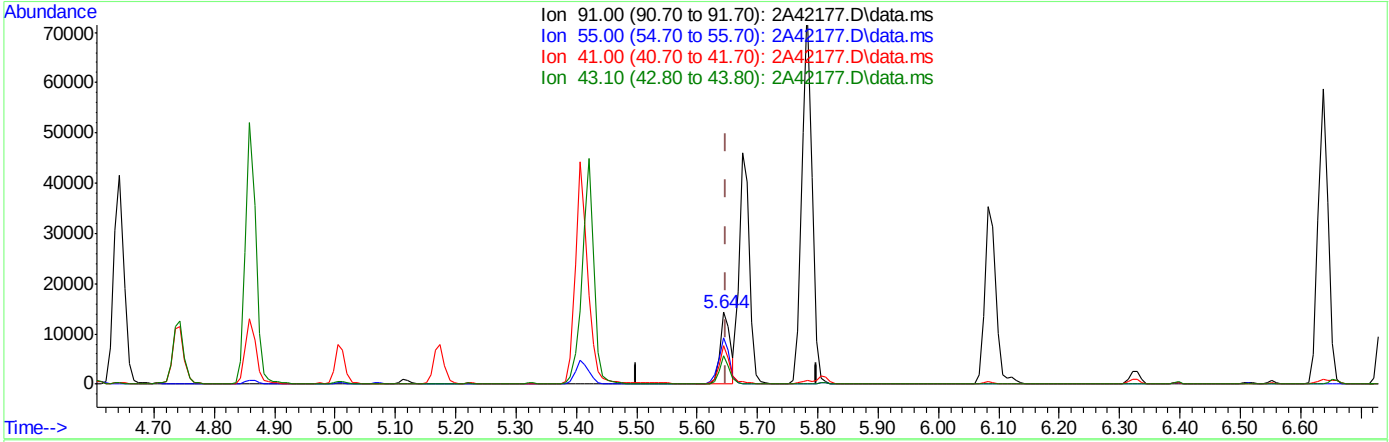
response 72669

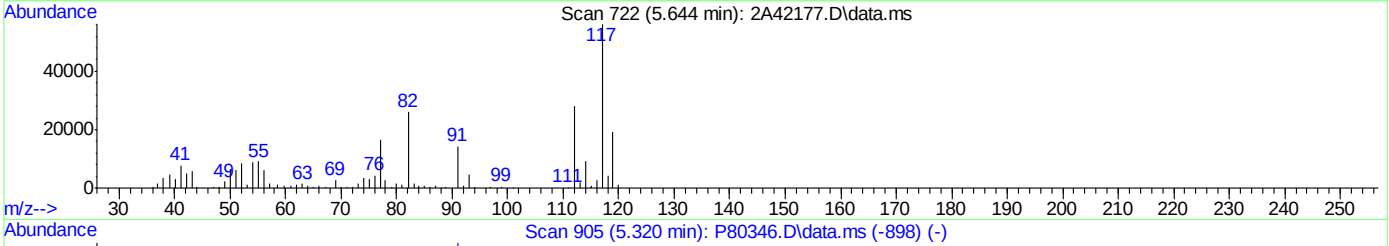
Ion	Exp%	Act%
91.00	100	100
55.00	67.70	0.31#
41.00	60.00	0.77#
43.10	48.60	0.32#

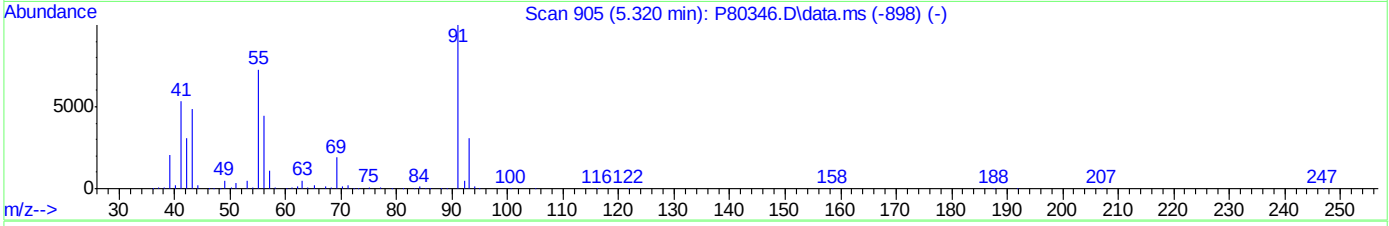
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42177.D
Acq On : 16 Dec 2022 11:19 am
Operator : joannel
Sample : IC1677-3
Misc : MS53004,V2A1677,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 16 14:17:02 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42177.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.005) 9.80ug/L m

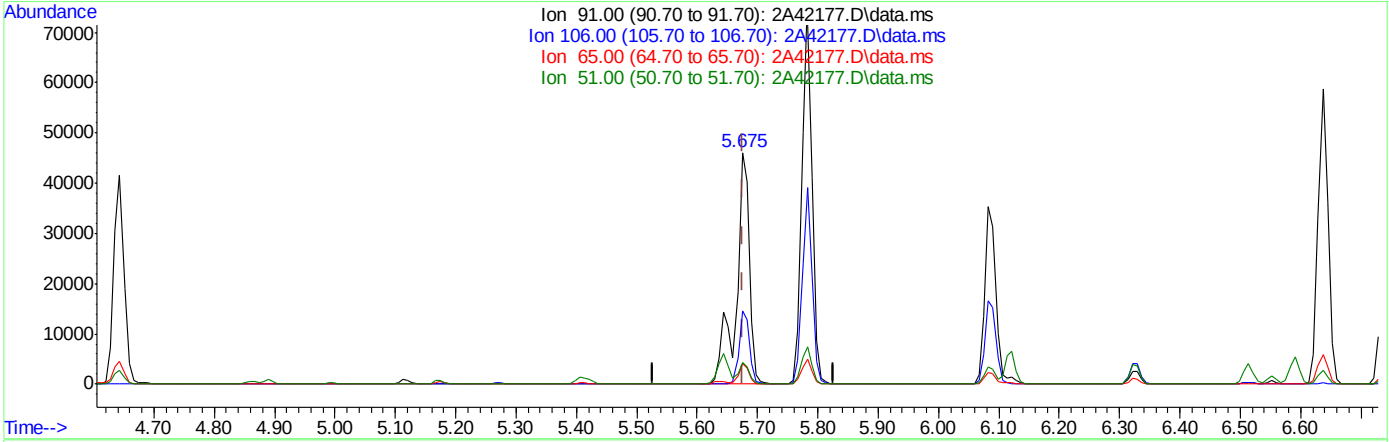
response 17296

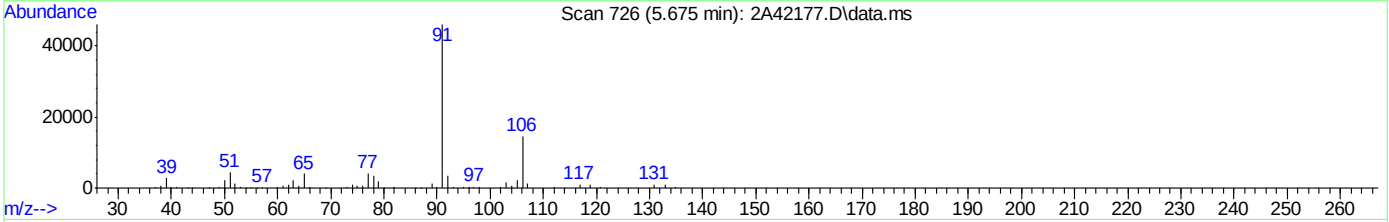
Ion	Exp%	Act%
91.00	100	100
55.00	67.70	63.91
41.00	60.00	53.87
43.10	48.60	39.43

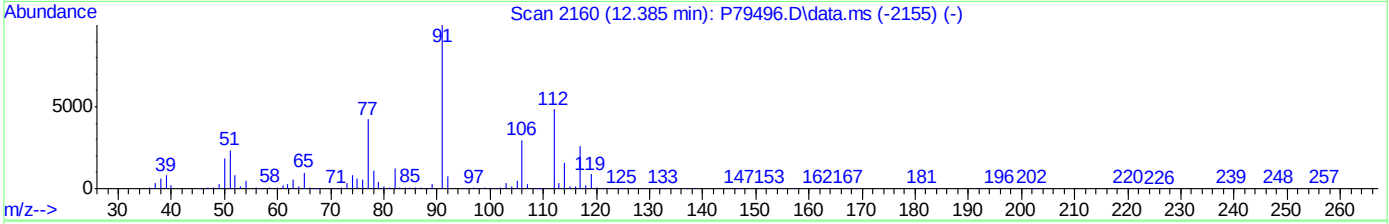
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42177.D
Acq On : 16 Dec 2022 11:19 am
Operator : joannel
Sample : IC1677-3
Misc : MS53004,V2A1677,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 16 14:17:02 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42177.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.002) 12.87ug/L

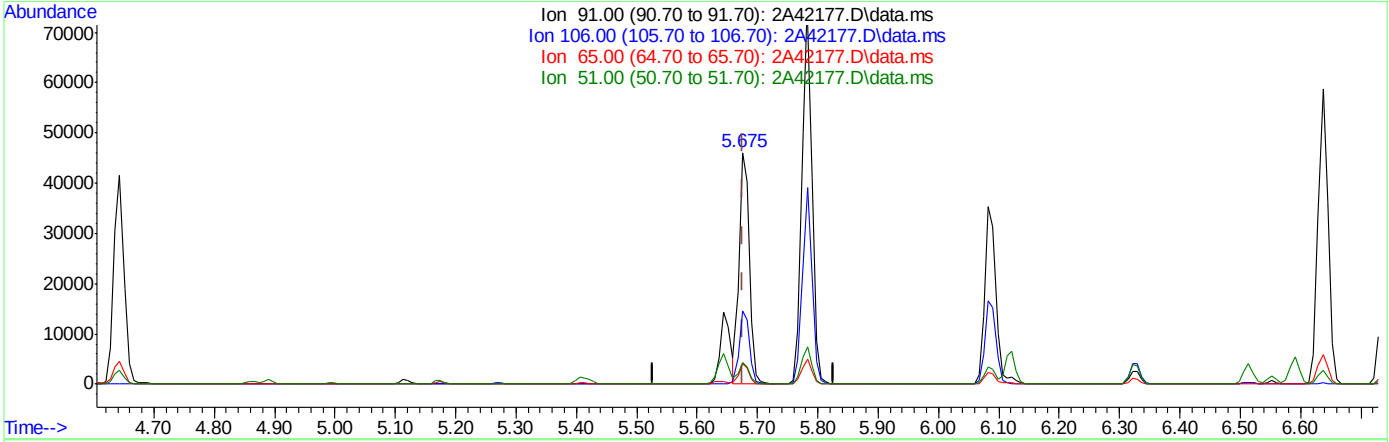
response 72669

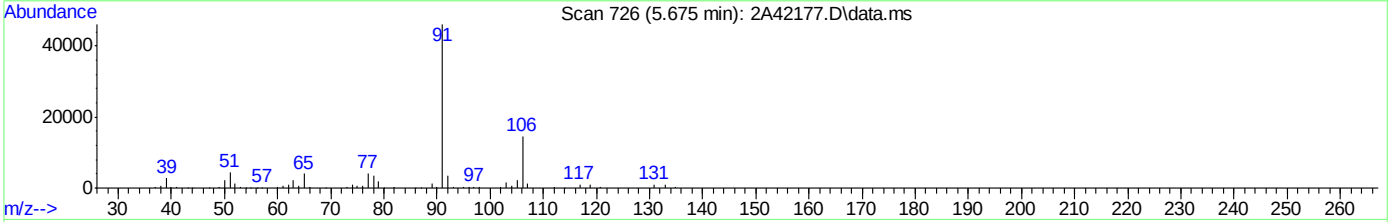
Ion	Exp%	Act%
91.00	100	100
106.00	31.90	31.61
65.00	8.70	8.85
51.00	11.10	9.59

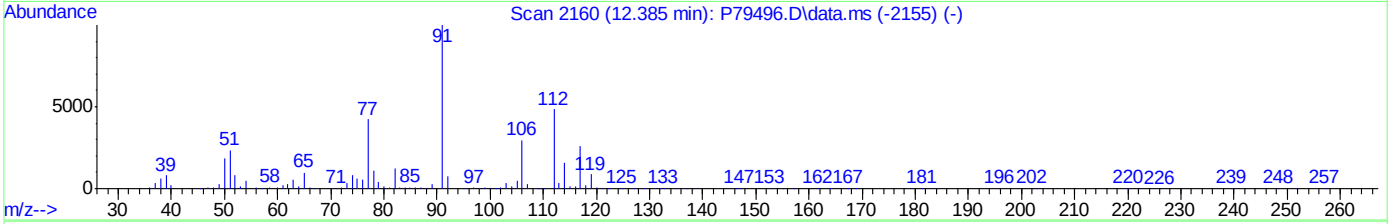
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42177.D
Acq On : 16 Dec 2022 11:19 am
Operator : joannel
Sample : IC1677-3
Misc : MS53004,V2A1677,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 16 14:17:02 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42177.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.002) 9.81ug/L m

response 55366

Ion	Exp%	Act%
91.00	100	100
106.00	31.90	31.61
65.00	8.70	8.85
51.00	11.10	9.59

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 12/20/22 07:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42179.D
Acq On : 16 Dec 2022 11:54 am
Operator : joannel
Sample : IC1677-4
Misc : MS53004,V2A1677,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 16 15:02:21 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.651	96	222452	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.636	117	174160	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.384	152	99340	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.189	113	62923	52.12	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.24%				
49) 1,2-Dichloroethane-d4	3.481	65	72134	52.18	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 104.36%				
63) Toluene-d8	4.605	98	218819	55.98	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 111.96%				
86) 4-Bromofluorobenzene	6.514	174	82070	55.32	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 110.64%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.042	85	35183	33.72	ug/L		99
3) Chloromethane	1.173	50	27604	20.30	ug/L		97
4) 1,3-butadiene	1.234	39	19890	16.19	ug/L		89
5) Vinyl Chloride	1.219	62	30021	22.34	ug/L		95
6) Bromomethane	1.419	94	19808	21.34	ug/L		99
7) Chloroethane	1.496	64	15629	14.41	ug/L		86
8) Trichlorofluoromethane	1.588	101	48078	18.02	ug/L		98
9) Ethyl Ether	1.781	59	21086	16.48	ug/L		86
10) Ethanol	1.850	45	6991m	283.65	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.881	67	33203	24.78	ug/L		97
12) 1,1-Dichloroethene	1.888	61	39896	22.29	ug/L		96
13) Freon 113	1.919	101	30562	24.12	ug/L		96
14) Carbon Disulfide	1.904	76	74838	22.54	ug/L		85
15) Iodomethane	1.965	142	44845	47.86	ug/L		90
16) Acrolein	2.058	56	29862	90.54	ug/L		99
17) Allyl chloride	2.150	41	32578	22.12	ug/L		96
18) Methylene Chloride	2.204	49	32486	20.24	ug/L		82
19) Acetone	2.219	43	45489	79.42	ug/L		93
20) Methyl acetate	2.304	43	110952	59.78	ug/L		89
21) trans-1,2-Dichloroethene	2.312	61	38685	22.10	ug/L		85
22) Hexane	2.373	56	23563	20.53	ug/L	#	90
23) Methyl Tert Butyl Ether	2.373	73	81504	24.93	ug/L		74
24) Acetonitrile	2.373	41	43650m	176.87	ug/L		
25) Tert Butyl Alcohol	2.404	59	59041	175.32	ug/L		85
26) Di-isopropyl ether	2.596	45	70825	16.19	ug/L		92
27) Chloroprene	2.635	53	90495	20.34	ug/L	#	86
28) 1,1-Dichloroethane	2.643	63	48895	21.96	ug/L		97
29) Acrylonitrile	2.635	52	55368	78.01	ug/L	#	70
30) ETBE	2.796	59	80219	19.70	ug/L		93
31) Vinyl acetate	2.773	43	236137	80.55	ug/L		98
32) cis-1,2-Dichloroethene	2.935	96	31295	23.69	ug/L		93
33) 2,2-Dichloropropane	3.004	77	45530	26.23	ug/L		99
34) Bromochloromethane	3.043	128	16337	27.50	ug/L		90
35) Cyclohexane	3.081	56	44145	20.23	ug/L	#	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42179.D
Acq On : 16 Dec 2022 11:54 am
Operator : joannel
Sample : IC1677-4
Misc : MS53004,V2A1677,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 16 15:02:21 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.089	83	54538	24.04	ug/L		94
37) Ethyl acetate	3.151	43	143910	63.19	ug/L		95
38) Tetrahydrofuran	3.174	42	9546	11.81	ug/L		88
40) Carbon Tetrachloride	3.189	117	41510m	23.72	ug/L		
41) 1,1,1-Trichloroethane	3.220	97	48371	25.61	ug/L		94
42) 2-Butanone	3.235	43	84120	72.80	ug/L		84
43) 1,1-Dichloropropene	3.289	75	41381	26.24	ug/L		86
44) tert-Butyl formate	3.335	59	119205	126.77	ug/L		92
45) Propionitrile	3.381	54	50046	146.92	ug/L		97
46) Methacrylonitrile	3.412	41	187337	135.27	ug/L		97
47) Benzene	3.420	78	117318	22.78	ug/L		77
48) TAME	3.497	73	79757	23.71	ug/L		87
50) 1,2-Dichloroethane	3.520	62	40541	21.17	ug/L		93
51) Isobutyl Alcohol	3.512	43	29459m	168.57	ug/L		
52) Tert Amyl Alcohol	3.582	59	41670	134.07	ug/L		87
53) Trichloroethene	3.759	95	33729	23.86	ug/L		98
54) Methylcyclohexane	3.782	83	51417	24.83	ug/L		85
55) Dibromomethane	3.989	93	20511	22.34	ug/L		94
56) 1,2-Dichloropropane	4.051	63	29122	21.43	ug/L		88
57) Bromodichloromethane	4.089	83	39504	24.31	ug/L		97
58) Methyl methacrylate	4.190	41	26042	15.94	ug/L	#	84
59) 1,4-Dioxane	4.205	88	7736	344.86	ug/L		83
60) 2-Chloroethyl vinyl ether	4.436	63	104854	103.45	ug/L		86
61) cis-1,3-Dichloropropene	4.482	75	47025	24.81	ug/L		83
64) Toluene	4.644	91	128108	25.78	ug/L		98
65) 2-Nitropropane	4.744	41	44447	81.70	ug/L		99
66) 4-Methyl-2-pentanone	4.859	43	168493	78.60	ug/L		94
67) trans-1,3-Dichloropropene	4.890	75	41777	25.52	ug/L		88
68) Tetrachloroethene	4.905	166	38726	28.34	ug/L		93
69) Ethyl methacrylate	5.005	69	39225	23.12	ug/L		80
70) 1,1,2-Trichloroethane	4.990	83	24320	25.54	ug/L		93
71) Dibromochloromethane	5.121	129	32977	25.00	ug/L		98
72) 1,3-Dichloropropane	5.175	76	46981	25.08	ug/L		82
73) 1,2-Dibromoethane	5.275	107	31991	25.33	ug/L		97
74) 3,3-Dimethyl-1-Butanol	5.406	57	234092	636.70	ug/L		89
75) 2-hexanone	5.421	43	168086	68.79	ug/L	#	66
76) 1-Chlorohexane	5.644	91	45073m	24.73	ug/L		
77) Ethylbenzene	5.675	91	145171m	24.91	ug/L		
78) Chlorobenzene	5.644	112	85681	24.48	ug/L		96
79) 1,1,1,2-Tetrachloroethane	5.690	131	30869	23.26	ug/L		93
80) m,p-Xylene	5.783	91	234522	50.95	ug/L		98
81) o-Xylene	6.083	91	118569	26.53	ug/L		97
82) Styrene	6.121	104	94616	26.61	ug/L		96
83) Bromoform	6.121	173	23430	26.40	ug/L		98
84) Isopropylbenzene	6.329	105	146311	26.44	ug/L		98
87) cis-1,4-Dichloro-2-butene	6.552	53	12839	16.13	ug/L	#	67
88) n-Propylbenzene	6.637	91	174066	23.35	ug/L		98
89) Bromobenzene	6.591	156	40093	24.61	ug/L		94
90) 1,1,2,2-Tetrachloroethane	6.660	83	41714	20.53	ug/L		99
91) 1,3,5-Trimethylbenzene	6.791	105	124557	22.65	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42179.D
Acq On : 16 Dec 2022 11:54 am
Operator : joannel
Sample : IC1677-4
Misc : MS53004,V2A1677,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 16 15:02:21 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

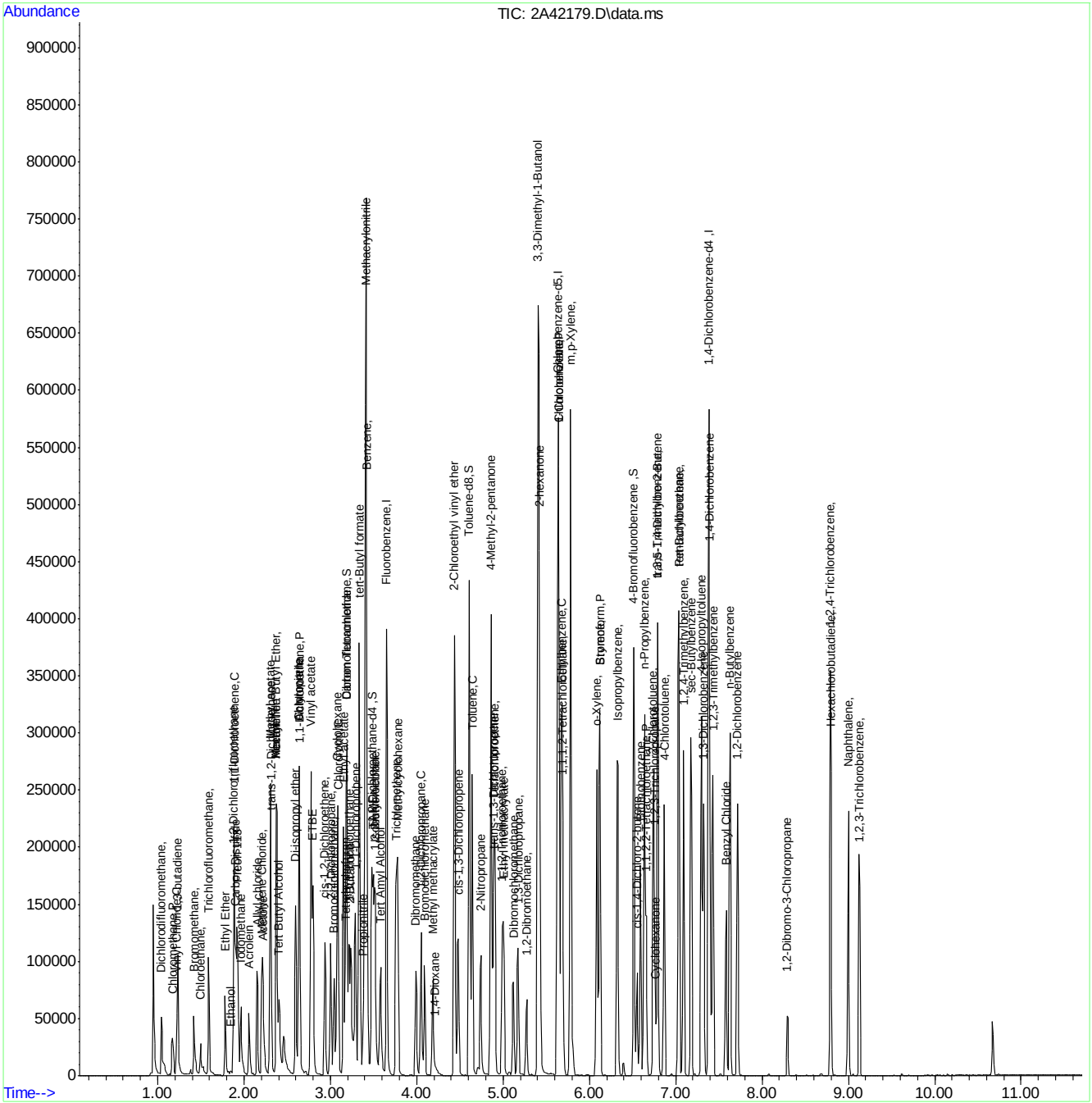
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 2-Chlorotoluene	6.737	91	99735	23.83	ug/L		94
93) trans-1,4-Dichloro-2-B...	6.791	53	14746	16.65	ug/L	#	67
94) 1,2,3-Trichloropropane	6.752	110	13179	19.67	ug/L		93
95) Cyclohexanone	6.768	55	6626	48.47	ug/L		84
96) 4-Chlorotoluene	6.868	91	103173	23.15	ug/L		96
97) tert-Butylbenzene	7.037	91	71490	23.73	ug/L		92
98) 1,2,4-Trimethylbenzene	7.091	105	118833	22.43	ug/L		100
99) Pentachloroethane	7.037	167	20433	23.86	ug/L	#	68
100) sec-Butylbenzene	7.176	105	155934	23.49	ug/L		97
101) 4-Isopropyltoluene	7.299	119	134868	23.28	ug/L		99
102) 1,3-Dichlorobenzene	7.322	146	74247	24.13	ug/L		98
103) 1,2,3-Trimethylbenzene	7.430	105	113596	22.14	ug/L		100
104) 1,4-Dichlorobenzene	7.391	146	75356	22.58	ug/L		97
105) n-Butylbenzene	7.630	92	65363	22.65	ug/L		97
106) Benzyl Chloride	7.584	126	17173	22.59	ug/L		97
107) 1,2-Dichlorobenzene	7.714	146	69052	24.11	ug/L		97
108) 1,2-Dibromo-3-Chloropr...	8.292	75	8830	19.59	ug/L		90
109) Hexachlorobutadiene	8.800	225	27037	35.52	ug/L	#	76
110) 1,2,4-Trichlorobenzene	8.792	180	44829	27.01	ug/L		95
111) Naphthalene	9.000	128	113378	20.21	ug/L		99
112) 1,2,3-Trichlorobenzene	9.131	180	42708	28.20	ug/L		93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42179.D
Acq On : 16 Dec 2022 11:54 am
Operator : joannel
Sample : IC1677-4
Misc : MS53004,V2A1677,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 16 15:02:21 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration



Manual Integration Approval Summary

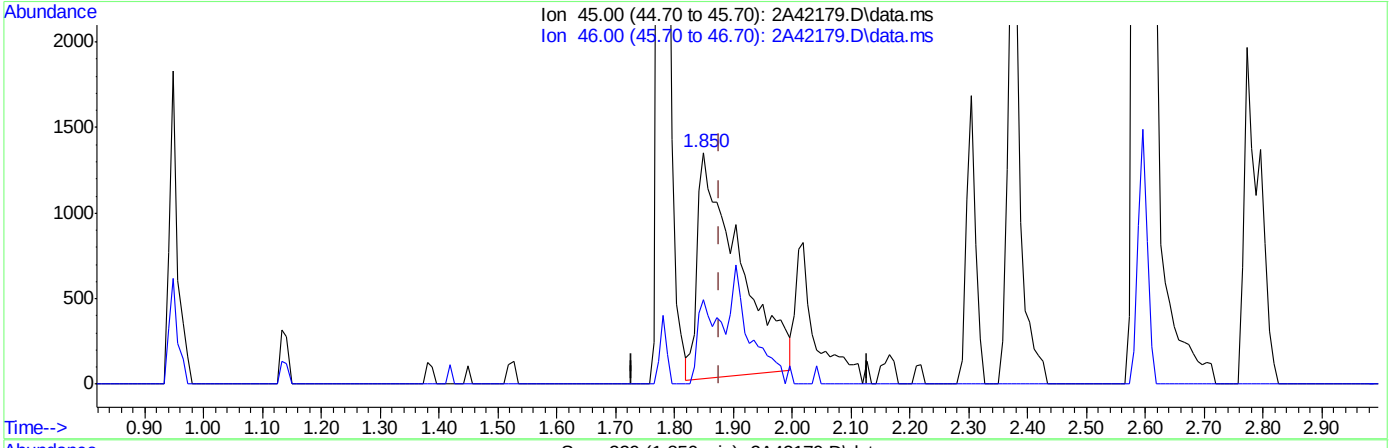
Sample Number: V2A1677-IC1677
Lab FileID: 2A42179.D
Injection Time: 12/16/22 11:54
Method: SW846 8260D
Analyst approved: 12/19/22 09:22 Jo-Ann Lugo De Jesus
Supervisor approved: 12/20/22 07:54 Neil Christiana

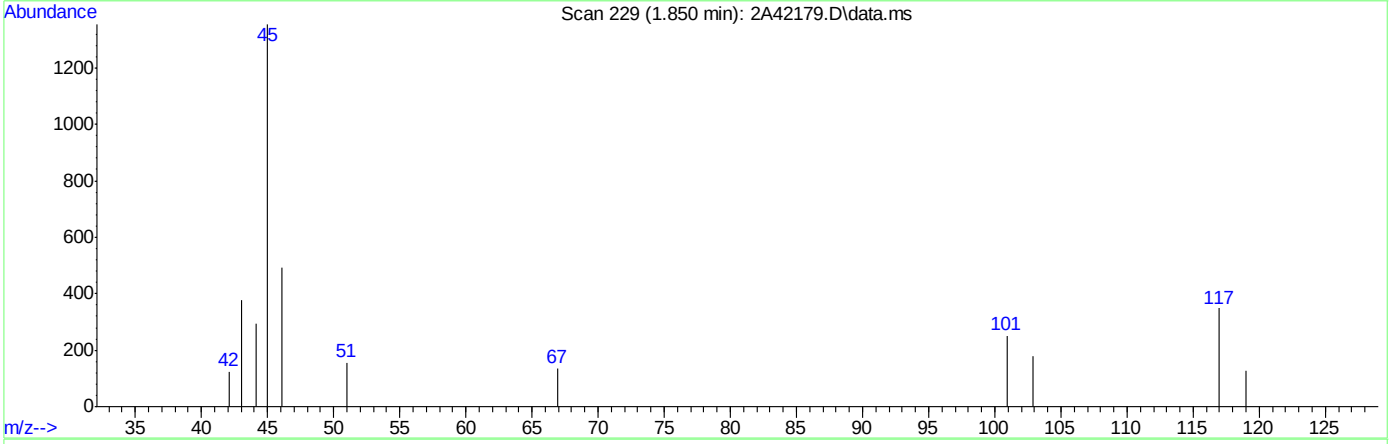
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.85	Poor instrument integration
Acetonitrile	75-05-8		2.37	Missed peak
Carbon Tetrachloride	56-23-5		3.19	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration
Ethylbenzene	100-41-4		5.67	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42179.D
Acq On : 16 Dec 2022 11:54 am
Operator : joannel
Sample : IC1677-4
Misc : MS53004,V2A1677,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 16 14:17:04 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42179.D\data.ms

(10) Ethanol

1.850min (-0.028) 261.01ug/L

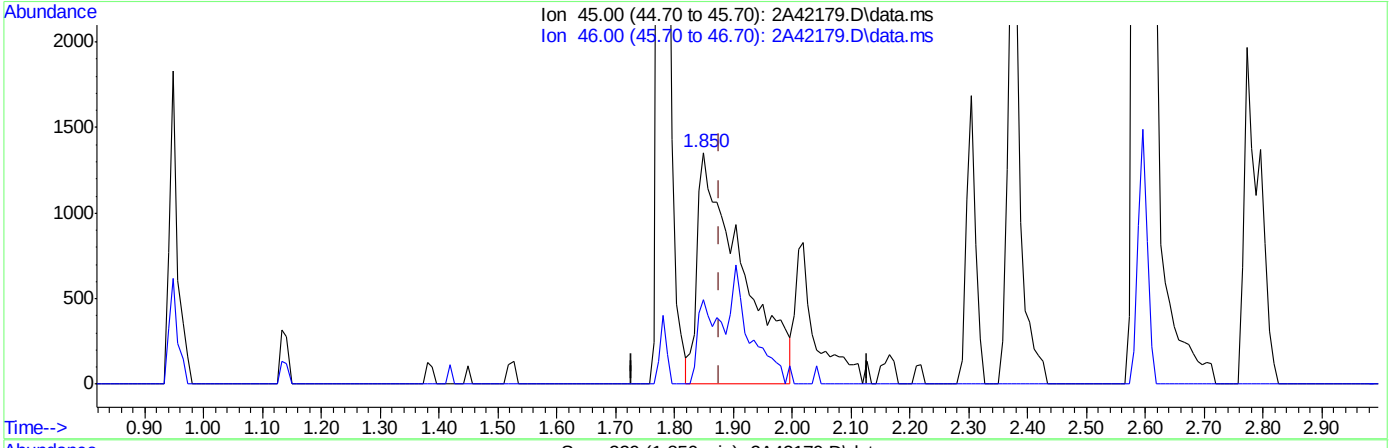
response 6433

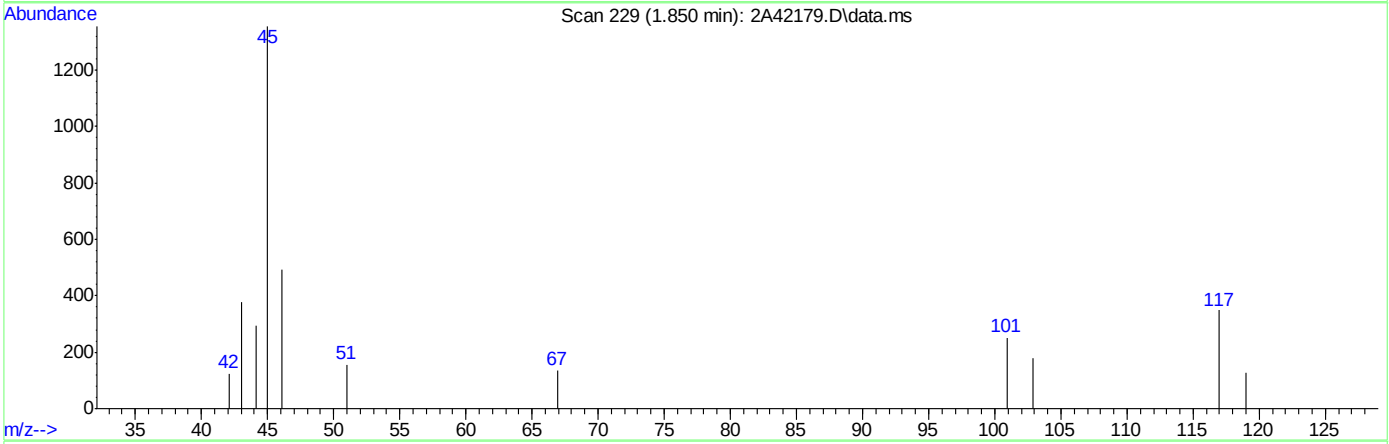
Ion	Exp%	Act%
45.00	100	100
46.00	31.20	41.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42179.D
Acq On : 16 Dec 2022 11:54 am
Operator : joannel
Sample : IC1677-4
Misc : MS53004,V2A1677,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 16 14:17:04 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42179.D\data.ms

(10) Ethanol

1.850min (-0.028) 283.65ug/L m

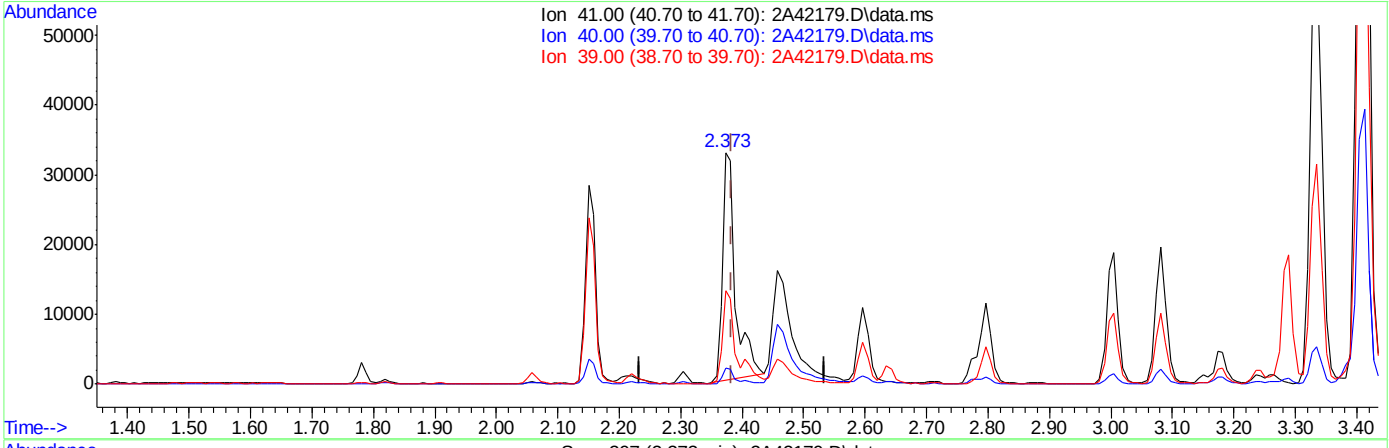
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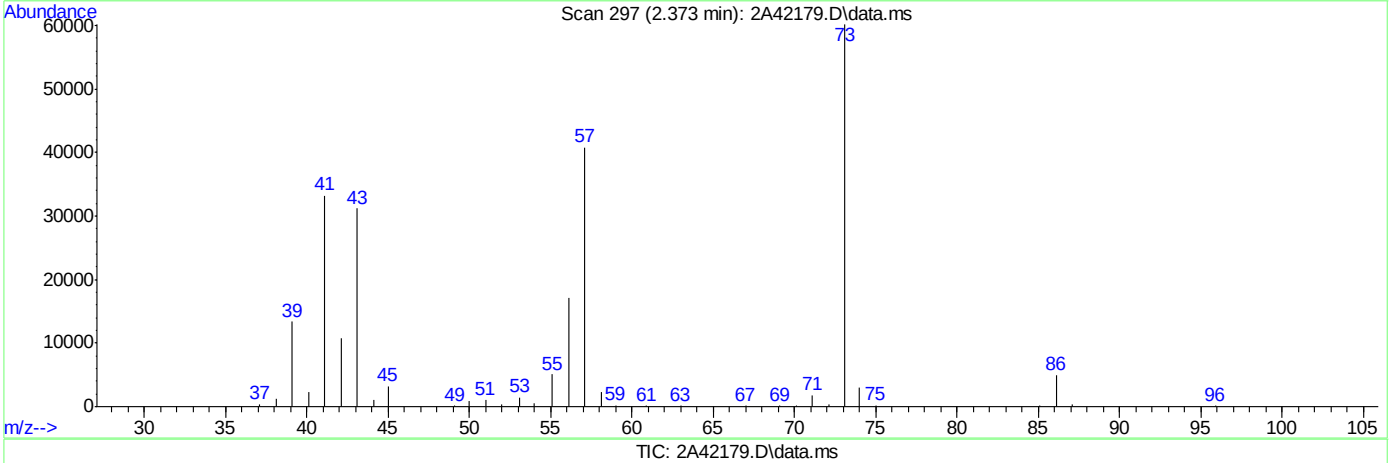
Ion	Exp%	Act%
45.00	100	100
46.00	31.20	36.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42179.D
Acq On : 16 Dec 2022 11:54 am
Operator : joannel
Sample : IC1677-4
Misc : MS53004,V2A1677,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 16 14:17:04 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42179.D\data.ms

(24) Acetonitrile

2.373min (-0.011) 198.80ug/L

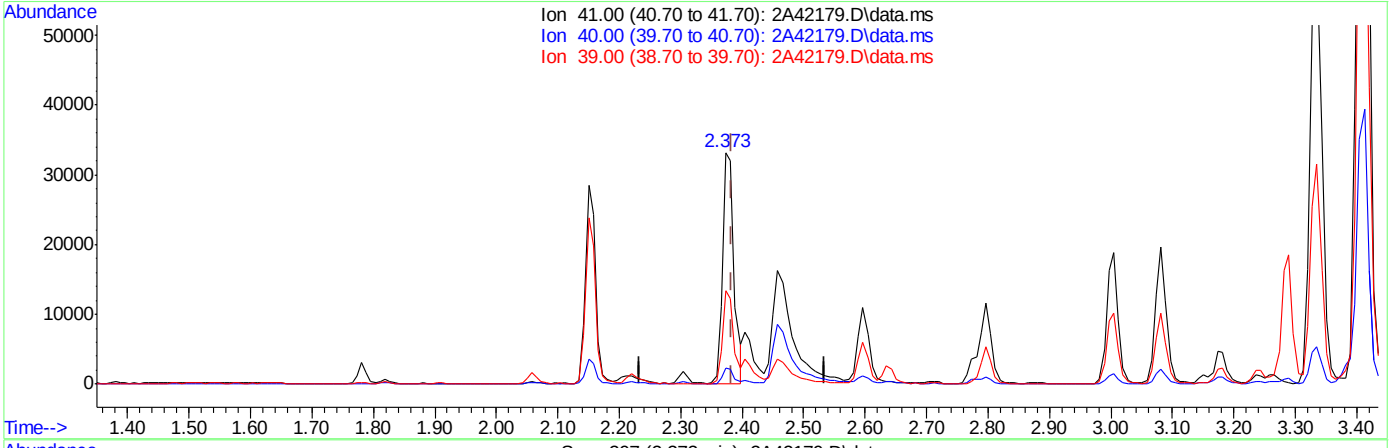
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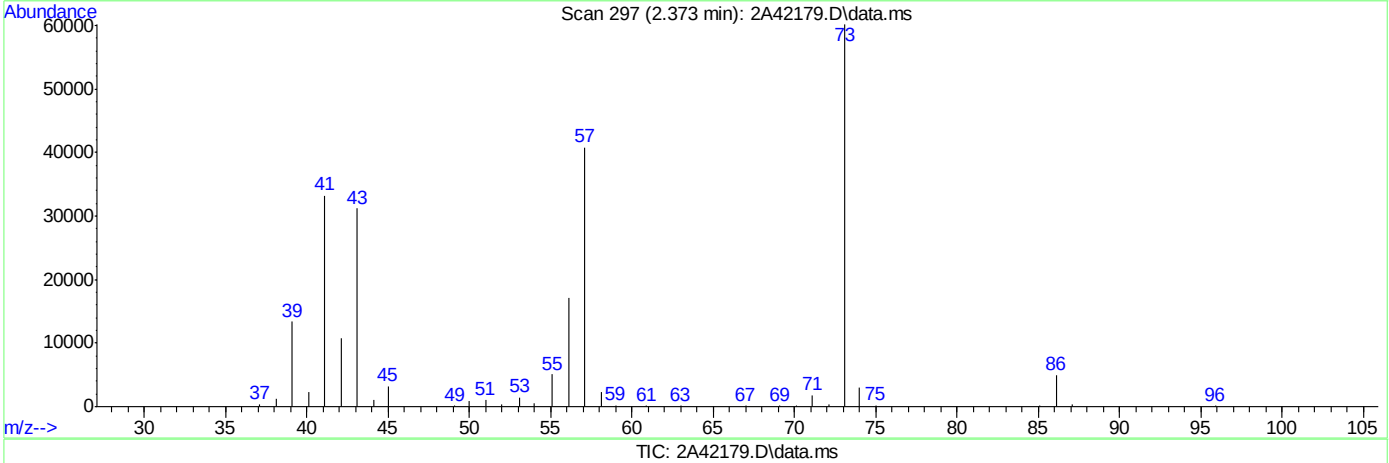
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.89
39.00	38.20	40.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42179.D
Acq On : 16 Dec 2022 11:54 am
Operator : joannel
Sample : IC1677-4
Misc : MS53004,V2A1677,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 16 14:17:04 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42179.D\data.ms

(24) Acetonitrile

2.373min (-0.011) 176.87ug/L m

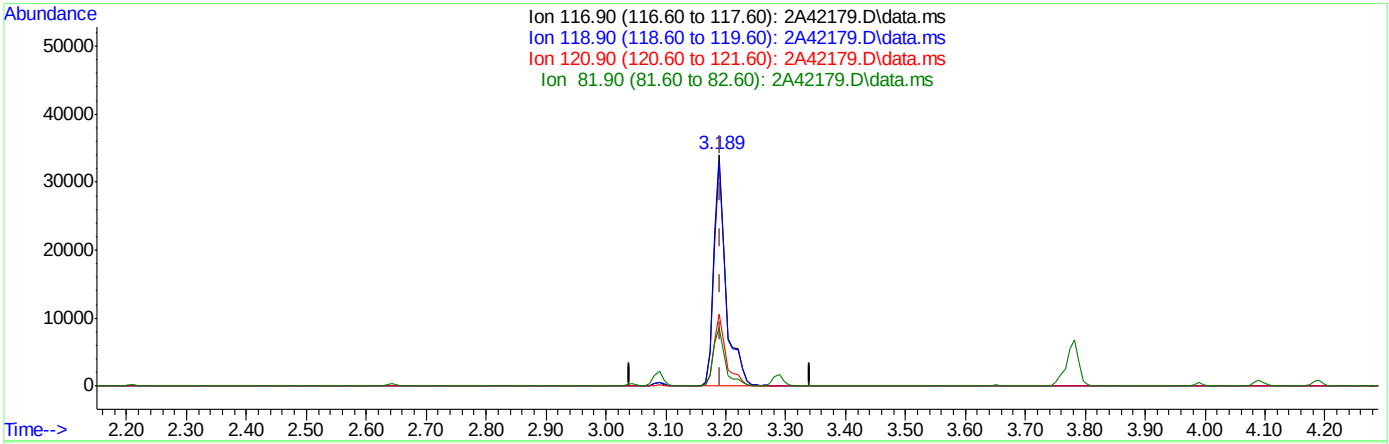
response 43650

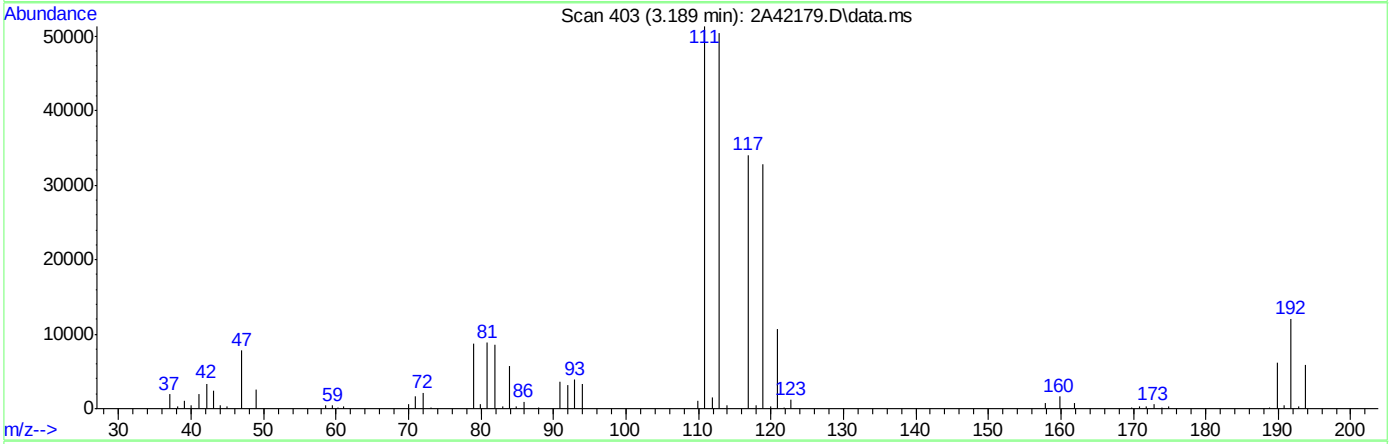
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.86
39.00	38.20	40.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42179.D
Acq On : 16 Dec 2022 11:54 am
Operator : joannel
Sample : IC1677-4
Misc : MS53004,V2A1677,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 16 14:35:36 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42179.D\data.ms

(40) Carbon Tetrachloride ( )

3.189min (-0.002) 27.73ug/L

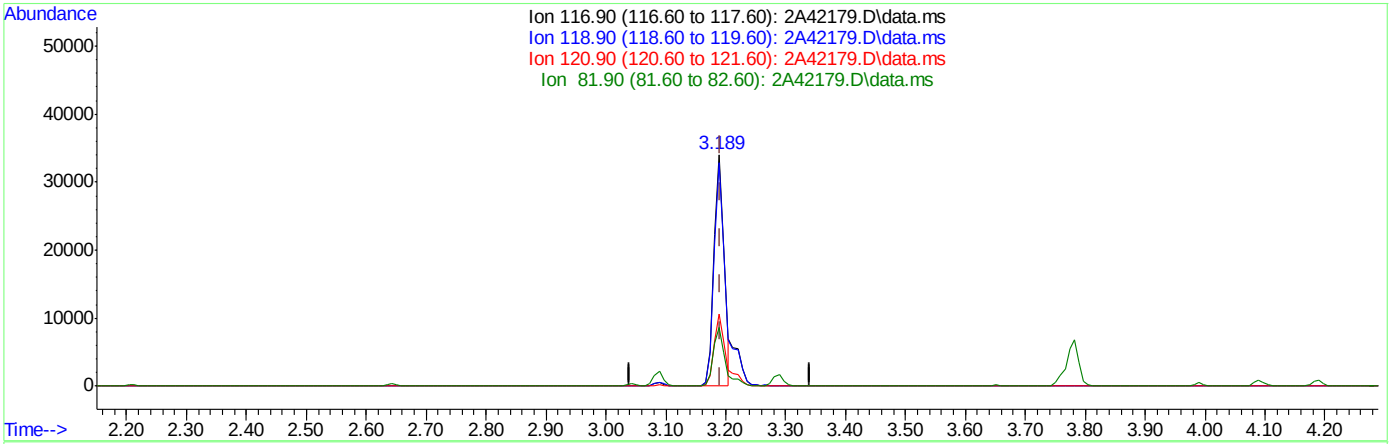
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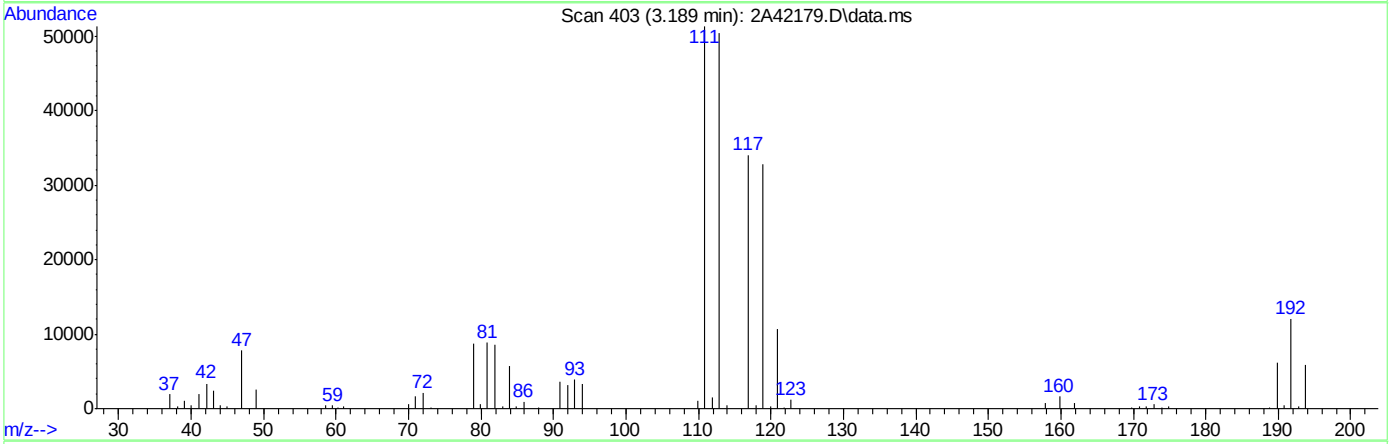
Ion	Exp%	Act%
116.90	100	100
118.90	93.10	96.53
120.90	31.00	31.35
81.90	24.60	25.35

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42179.D
Acq On : 16 Dec 2022 11:54 am
Operator : joannel
Sample : IC1677-4
Misc : MS53004,V2A1677,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 16 14:35:36 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42179.D\data.ms

(40) Carbon Tetrachloride ( )

3.189min (-0.002) 23.72ug/L m

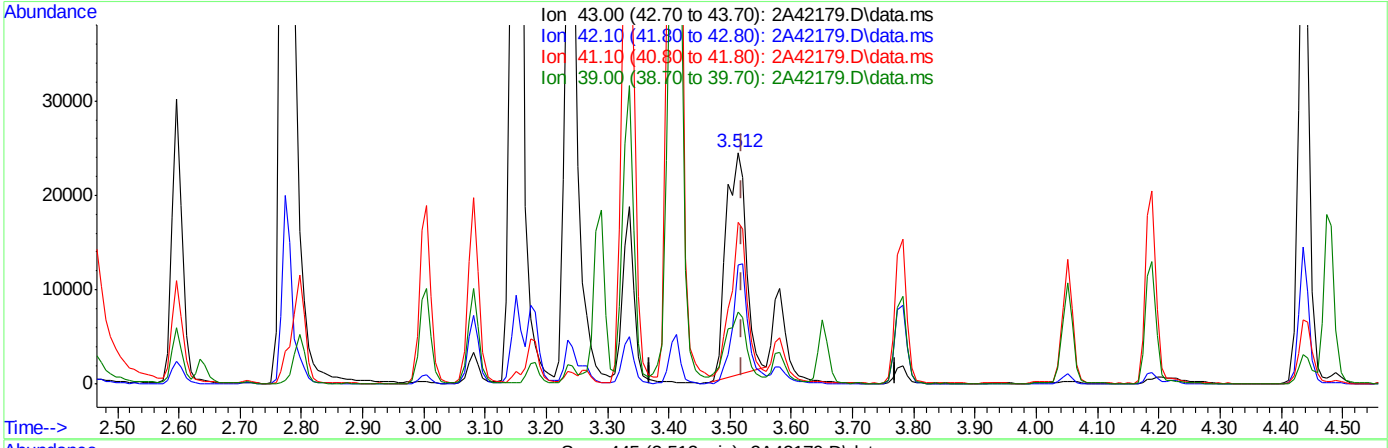
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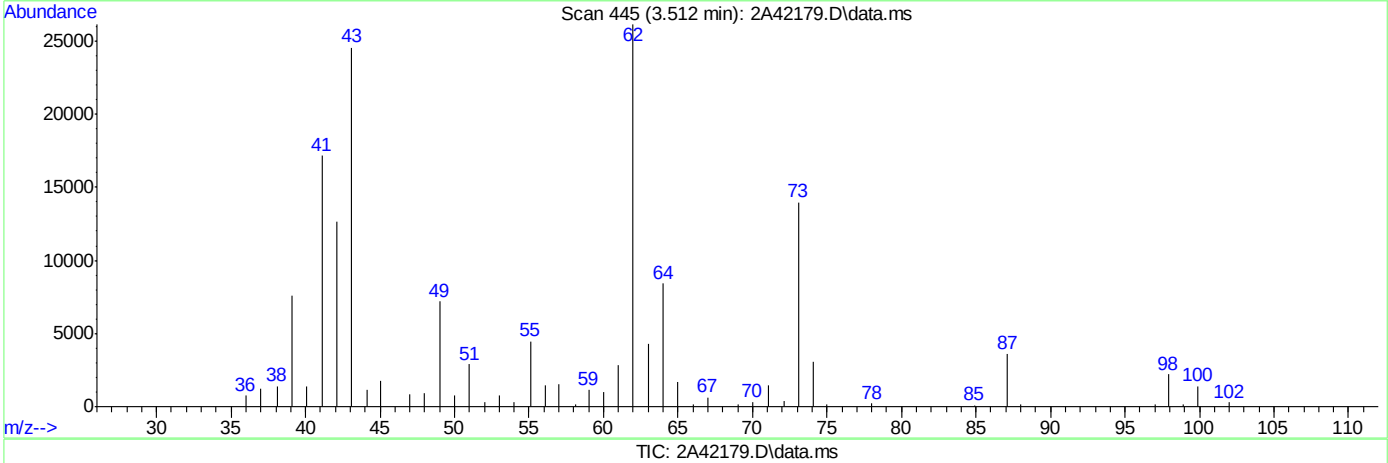
Ion	Exp%	Act%
116.90	100	100
118.90	93.10	96.53
120.90	31.00	31.35
81.90	24.60	25.35

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42179.D
Acq On : 16 Dec 2022 11:54 am
Operator : joannel
Sample : IC1677-4
Misc : MS53004,V2A1677,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 16 14:35:36 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42179.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.008) 319.82ug/L

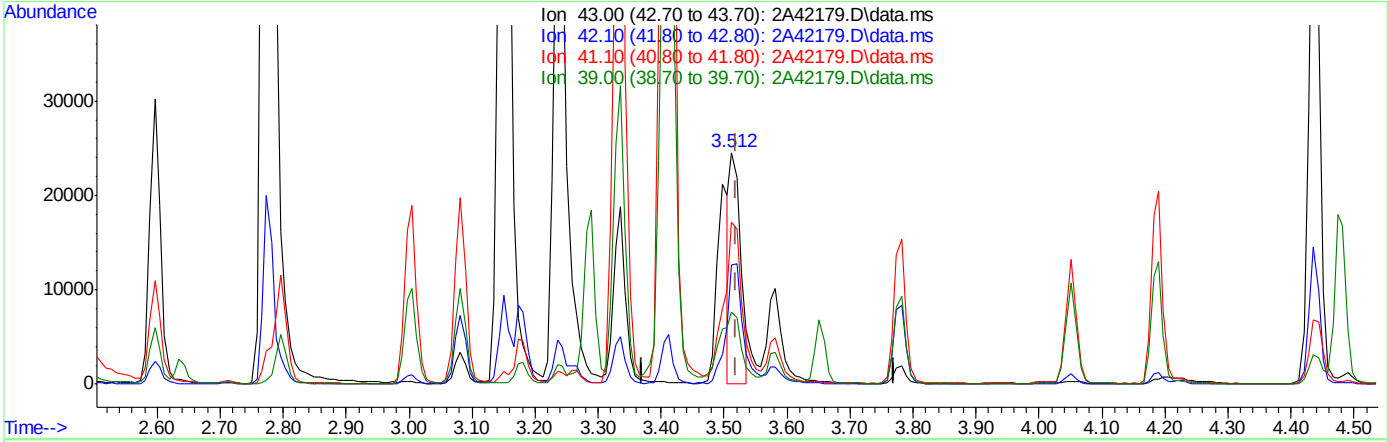
response 53853

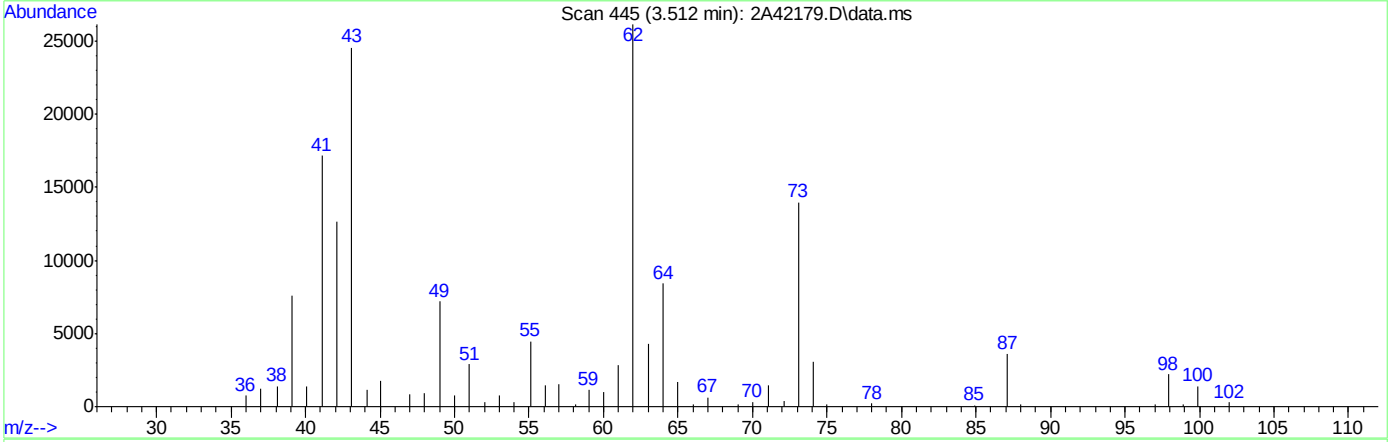
Ion	Exp%	Act%
43.00	100	100
42.10	57.60	51.51
41.10	77.70	66.62
39.00	33.60	28.08

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42179.D
Acq On : 16 Dec 2022 11:54 am
Operator : joannel
Sample : IC1677-4
Misc : MS53004,V2A1677,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 16 14:35:36 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42179.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.008) 168.57ug/L m

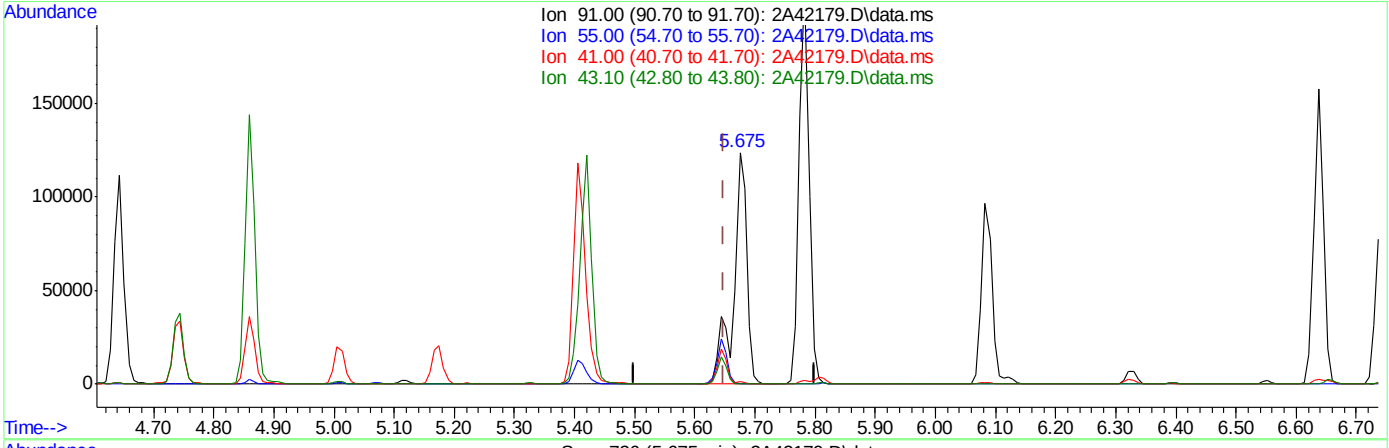
response 29459

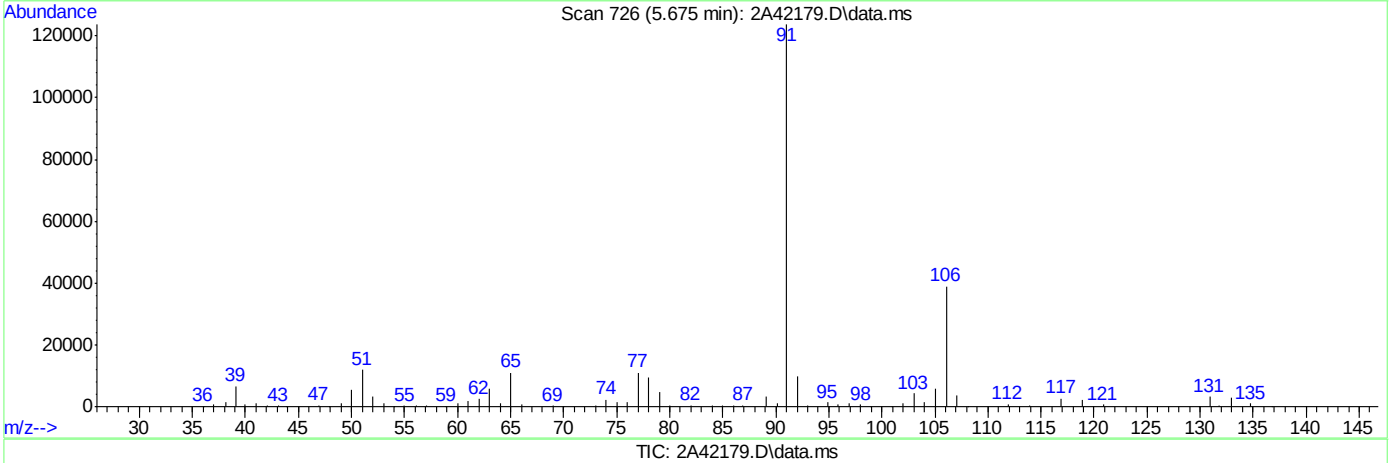
Ion	Exp%	Act%
43.00	100	100
42.10	57.60	51.66
41.10	77.70	69.84
39.00	33.60	31.01

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42179.D
Acq On : 16 Dec 2022 11:54 am
Operator : joannel
Sample : IC1677-4
Misc : MS53004,V2A1677,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 16 14:35:36 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42179.D\data.ms

(76) 1-Chlorohexane

5.675min (+0.026) 104.40ug/L

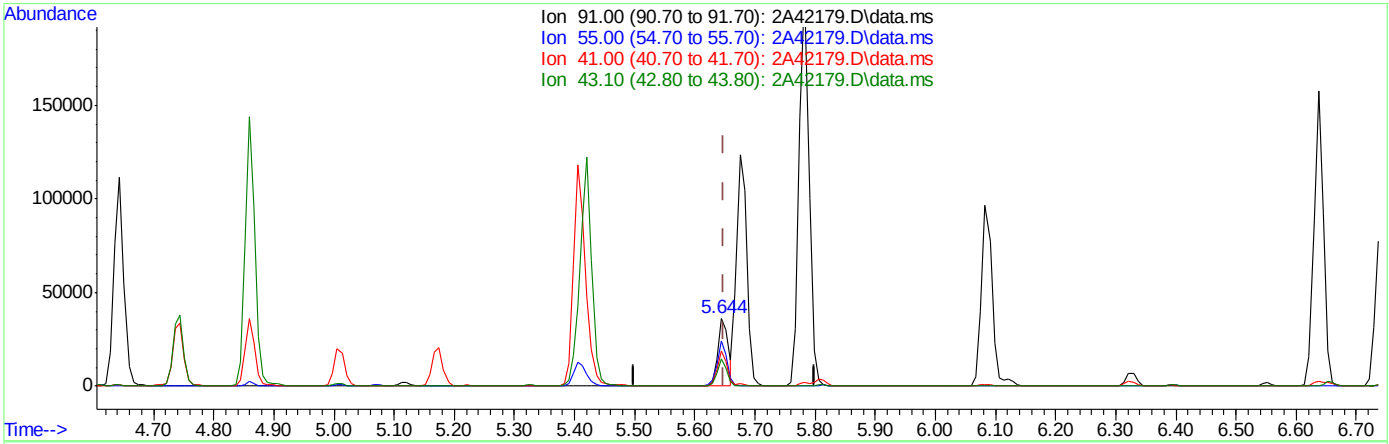
response 190242

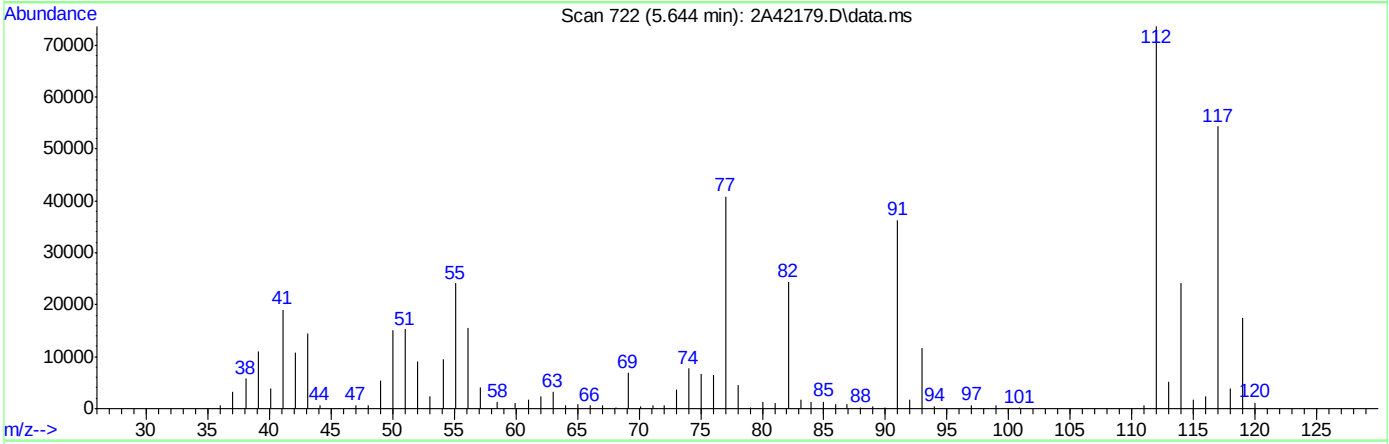
Ion	Exp%	Act%
91.00	100	100
55.00	67.70	0.28#
41.00	60.00	0.83#
43.10	48.60	0.21#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42179.D
Acq On : 16 Dec 2022 11:54 am
Operator : joannel
Sample : IC1677-4
Misc : MS53004,V2A1677,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 16 14:35:36 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42179.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.005) 24.73ug/L m

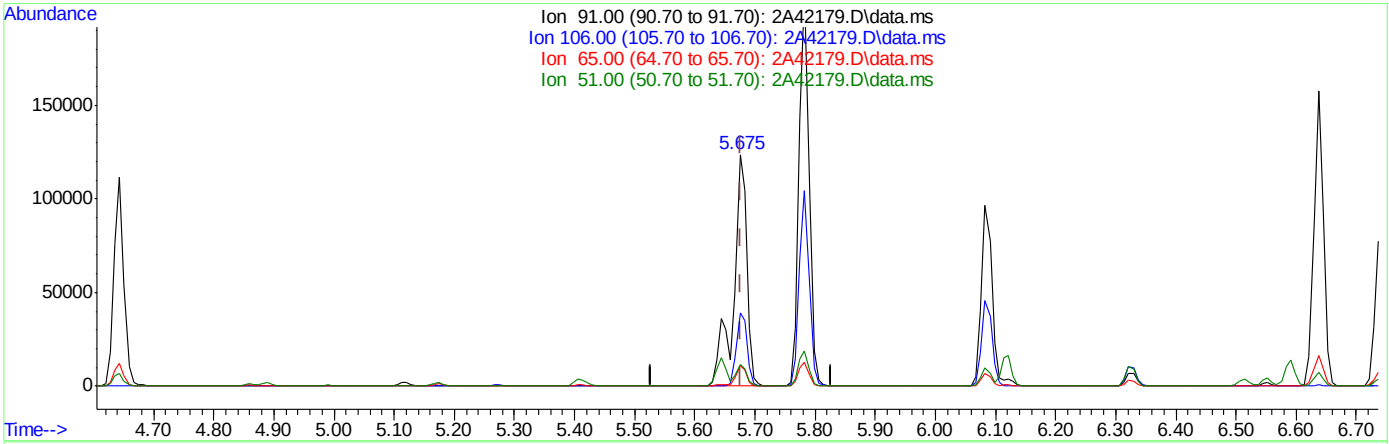
response 45073

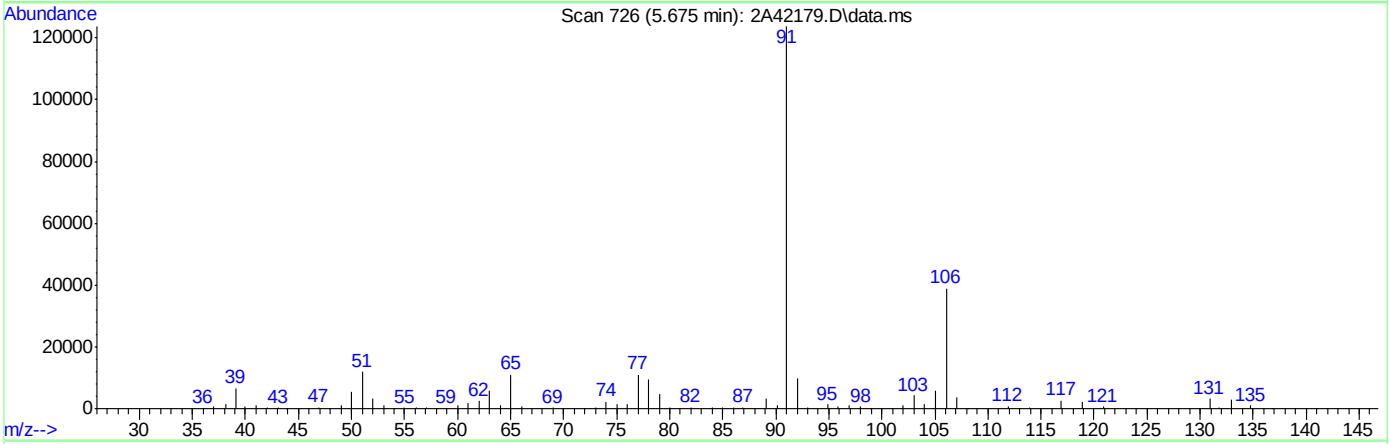
Ion	Exp%	Act%
91.00	100	100
55.00	67.70	66.26
41.00	60.00	52.24
43.10	48.60	39.77

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42179.D
Acq On : 16 Dec 2022 11:54 am
Operator : joannel
Sample : IC1677-4
Misc : MS53004,V2A1677,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 16 14:35:36 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42179.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.002) 32.65ug/L

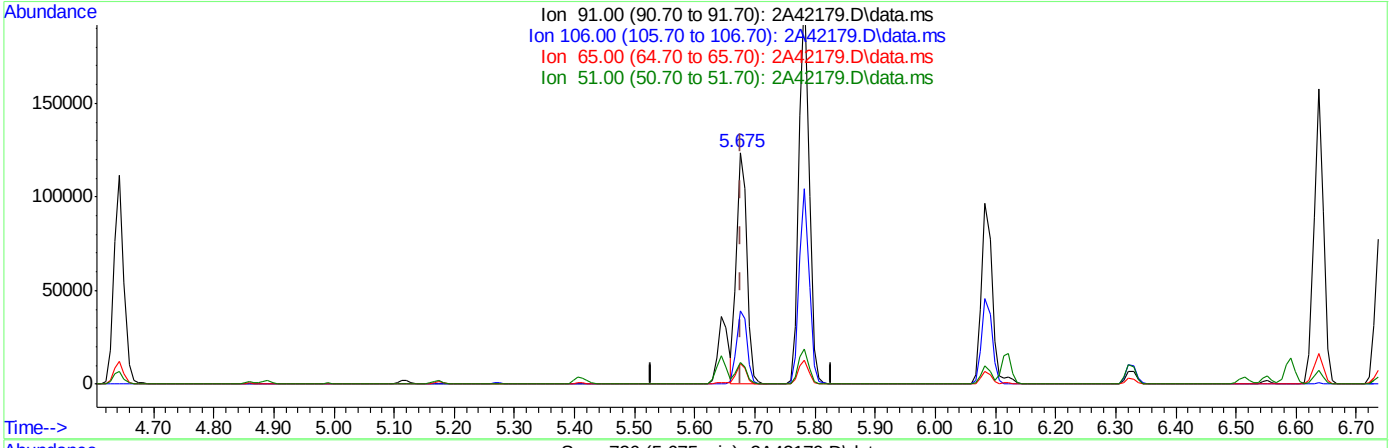
response 190242

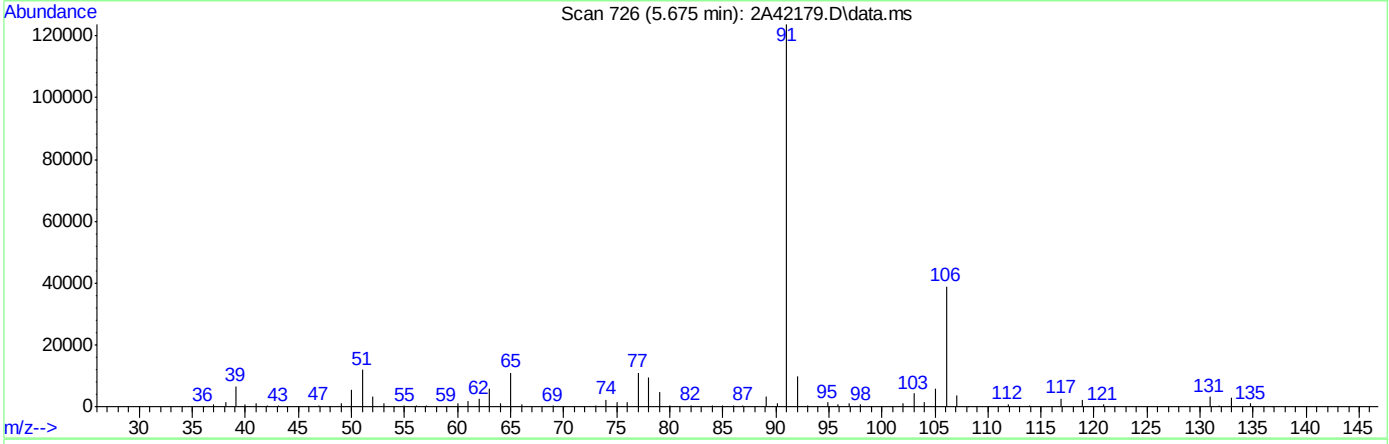
Ion	Exp%	Act%
91.00	100	100
106.00	31.90	31.41
65.00	8.70	8.87
51.00	11.10	9.59

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42179.D
Acq On : 16 Dec 2022 11:54 am
Operator : joannel
Sample : IC1677-4
Misc : MS53004,V2A1677,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 16 14:35:36 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42179.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.002) 24.91ug/L m

response 145171

Ion	Exp%	Act%
91.00	100	100
106.00	31.90	31.41
65.00	8.70	8.87
51.00	11.10	9.59

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 12/20/22 07:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42181.D
Acq On : 16 Dec 2022 12:31 pm
Operator : joannel
Sample : ICC1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 15:05:32 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	226426	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	178646	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	100356	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	65031	52.92	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.84%			
49) 1,2-Dichloroethane-d4	3.481	65	73896	52.51	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.02%			
63) Toluene-d8	4.605	98	223397	55.72	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 111.44%			
86) 4-Bromofluorobenzene	6.514	174	83948	56.01	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 112.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	51237	49.69	ug/L	95
3) Chloromethane	1.165	50	41094m	30.42	ug/L	
4) 1,3-butadiene	1.226	39	24910	20.15	ug/L	93
5) Vinyl Chloride	1.211	62	44045	33.37	ug/L	94
6) Bromomethane	1.419	94	29570	32.20	ug/L	99
7) Chloroethane	1.488	64	21221	19.57	ug/L	86
8) Trichlorofluoromethane	1.588	101	67956	25.22	ug/L	97
9) Ethyl Ether	1.781	59	29039	22.51	ug/L	83
10) Ethanol	1.850	45	9929m	395.79	ug/L	
11) 1,2-Dichlorotrifluoroe...	1.881	67	44379	32.80	ug/L	98
12) 1,1-Dichloroethene	1.881	61	53749	29.98	ug/L	97
13) Freon 113	1.919	101	40043	31.05	ug/L	94
14) Carbon Disulfide	1.904	76	101540	30.27	ug/L	84
15) Iodomethane	1.958	142	63975	63.10	ug/L	91
16) Acrolein	2.058	56	44960	135.37	ug/L	99
17) Allyl chloride	2.150	41	45220	30.58	ug/L	93
18) Methylene Chloride	2.204	49	47173	28.87	ug/L	80
19) Acetone	2.219	43	63612	111.06	ug/L	92
20) Methyl acetate	2.304	43	156692	84.32	ug/L	88
21) trans-1,2-Dichloroethene	2.304	61	52965	29.73	ug/L	91
22) Hexane	2.373	56	30586	26.19	ug/L #	89
23) Methyl Tert Butyl Ether	2.373	73	116025	35.12	ug/L	73
24) Acetonitrile	2.373	41	58097m	233.12	ug/L	
25) Tert Butyl Alcohol	2.404	59	81290	241.00	ug/L	85
26) Di-isopropyl ether	2.596	45	99168	22.28	ug/L	92
27) Chloroprene	2.635	53	131967	29.62	ug/L	88
28) 1,1-Dichloroethane	2.635	63	68531	30.24	ug/L	97
29) Acrylonitrile	2.635	52	83659	117.36	ug/L #	76
30) ETBE	2.796	59	113499	27.39	ug/L	92
31) Vinyl acetate	2.773	43	363439	121.79	ug/L	98
32) cis-1,2-Dichloroethene	2.935	96	44160	32.84	ug/L	92
33) 2,2-Dichloropropane	3.004	77	63889	36.15	ug/L	99
34) Bromochloromethane	3.043	128	22635	37.43	ug/L	90
35) Cyclohexane	3.081	56	57544	25.91	ug/L #	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42181.D
Acq On : 16 Dec 2022 12:31 pm
Operator : joannel
Sample : ICC1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 15:05:32 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.089	83	77018	33.35	ug/L		95
37) Ethyl acetate	3.150	43	219281	95.98	ug/L		94
38) Tetrahydrofuran	3.174	42	12805	15.71	ug/L		84
40) Carbon Tetrachloride	3.189	117	58232m	32.69	ug/L		
41) 1,1,1-Trichloroethane	3.212	97	65903	34.28	ug/L		97
42) 2-Butanone	3.235	43	118663	100.89	ug/L		83
43) 1,1-Dichloropropene	3.289	75	56279	35.05	ug/L		86
44) tert-Butyl formate	3.335	59	186529	194.89	ug/L		91
45) Propionitrile	3.381	54	69960	203.09	ug/L		95
46) Methacrylonitrile	3.412	41	260220	184.60	ug/L		95
47) Benzene	3.420	78	162685	31.03	ug/L		73
48) TAME	3.497	73	110880	32.38	ug/L		86
50) 1,2-Dichloroethane	3.520	62	57253	29.37	ug/L		93
51) Isobutyl Alcohol	3.512	43	41039m	234.44	ug/L		
52) Tert Amyl Alcohol	3.581	59	58623	185.31	ug/L		87
53) Trichloroethene	3.758	95	47004	32.66	ug/L		96
54) Methylcyclohexane	3.782	83	66735	31.67	ug/L	#	83
55) Dibromomethane	3.989	93	29235	31.28	ug/L		91
56) 1,2-Dichloropropane	4.051	63	39776	28.75	ug/L		88
57) Bromodichloromethane	4.089	83	55526	33.57	ug/L		95
58) Methyl methacrylate	4.189	41	36402	21.89	ug/L	#	82
59) 1,4-Dioxane	4.205	88	11421	510.45	ug/L		85
60) 2-Chloroethyl vinyl ether	4.436	63	156166	151.37	ug/L		86
61) cis-1,3-Dichloropropene	4.474	75	66460	34.45	ug/L		87
64) Toluene	4.644	91	175888	34.51	ug/L		99
65) 2-Nitropropane	4.744	41	64331	115.28	ug/L		99
66) 4-Methyl-2-pentanone	4.859	43	232102	105.56	ug/L		93
67) trans-1,3-Dichloropropene	4.890	75	59397	35.37	ug/L		86
68) Tetrachloroethene	4.905	166	52124	37.19	ug/L		93
69) Ethyl methacrylate	5.005	69	54893	31.54	ug/L		79
70) 1,1,2-Trichloroethane	4.990	83	33639	34.44	ug/L		93
71) Dibromochloromethane	5.121	129	47061	34.79	ug/L		95
72) 1,3-Dichloropropane	5.175	76	66657	34.69	ug/L		82
73) 1,2-Dibromoethane	5.275	107	45195	34.88	ug/L		98
74) 3,3-Dimethyl-1-Butanol	5.406	57	346678	919.25	ug/L		88
75) 2-hexanone	5.421	43	234249	93.46	ug/L	#	70
76) 1-Chlorohexane	5.644	91	60611m	32.43	ug/L		
77) Ethylbenzene	5.675	91	198983m	33.29	ug/L		
78) Chlorobenzene	5.644	112	119851	33.38	ug/L		95
79) 1,1,1,2-Tetrachloroethane	5.690	131	43441	31.91	ug/L		94
80) m,p-Xylene	5.783	91	322482	68.30	ug/L		98
81) o-Xylene	6.083	91	166113	36.23	ug/L		97
82) Styrene	6.121	104	132528	36.33	ug/L		95
83) Bromoform	6.121	173	33706	35.99	ug/L		97
84) Isopropylbenzene	6.329	105	199681	35.18	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.552	53	18452	22.94	ug/L	#	71
88) n-Propylbenzene	6.637	91	238174	31.62	ug/L		99
89) Bromobenzene	6.591	156	56135	34.11	ug/L		94
90) 1,1,2,2-Tetrachloroethane	6.660	83	58318	28.41	ug/L		99
91) 1,3,5-Trimethylbenzene	6.791	105	173177	31.18	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42181.D
Acq On : 16 Dec 2022 12:31 pm
Operator : joannel
Sample : ICC1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 15:05:32 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

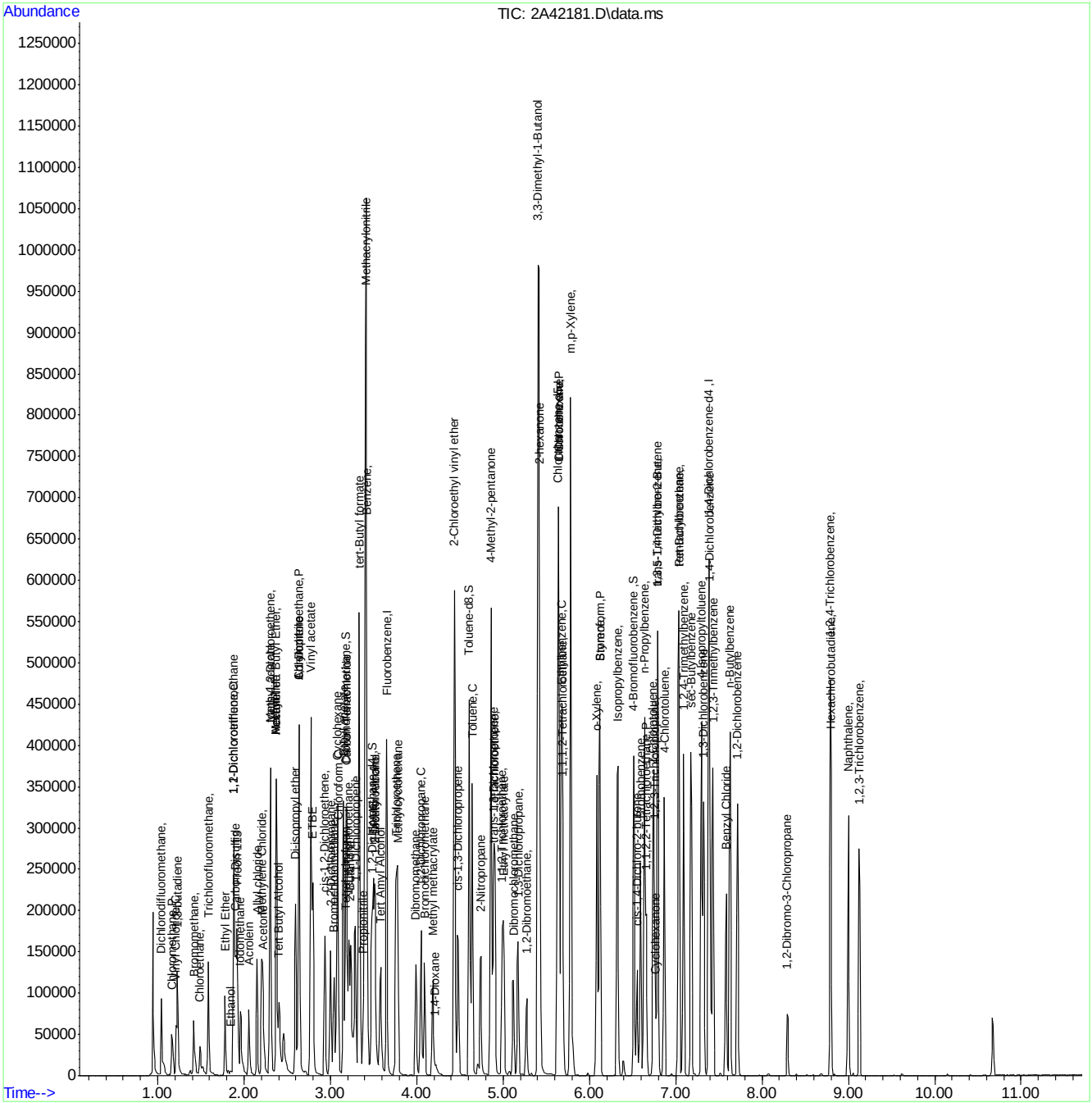
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.737	91	138443	32.75	ug/L		93
93)	trans-1,4-Dichloro-2-B...	6.791	53	20436	22.85	ug/L	#	66
94)	1,2,3-Trichloropropane	6.752	110	18390	27.30	ug/L		93
95)	Cyclohexanone	6.768	55	10515	77.68	ug/L		91
96)	4-Chlorotoluene	6.868	91	144324	32.06	ug/L		95
97)	tert-Butylbenzene	7.037	91	96913	31.85	ug/L		92
98)	1,2,4-Trimethylbenzene	7.091	105	163417	30.54	ug/L		98
99)	Pentachloroethane	7.037	167	29341	33.92	ug/L	#	75
100)	sec-Butylbenzene	7.176	105	209031	31.17	ug/L		97
101)	4-Isopropyltoluene	7.299	119	183366	31.33	ug/L		98
102)	1,3-Dichlorobenzene	7.322	146	102013	32.82	ug/L		99
103)	1,2,3-Trimethylbenzene	7.430	105	158328	30.55	ug/L		99
104)	1,4-Dichlorobenzene	7.391	146	104187	30.90	ug/L		97
105)	n-Butylbenzene	7.630	92	89163	30.58	ug/L		97
106)	Benzyl Chloride	7.584	126	25298	32.94	ug/L		99
107)	1,2-Dichlorobenzene	7.714	146	95776	33.10	ug/L		97
108)	1,2-Dibromo-3-Chloropr...	8.292	75	12907	28.34	ug/L	#	88
109)	Hexachlorobutadiene	8.800	225	36024	46.85	ug/L	#	76
110)	1,2,4-Trichlorobenzene	8.792	180	63574	37.91	ug/L		95
111)	Naphthalene	9.000	128	157628	27.81	ug/L		98
112)	1,2,3-Trichlorobenzene	9.123	180	60676	39.66	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42181.D
Acq On : 16 Dec 2022 12:31 pm
Operator : joannel
Sample : ICC1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 15:05:32 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration



Manual Integration Approval Summary

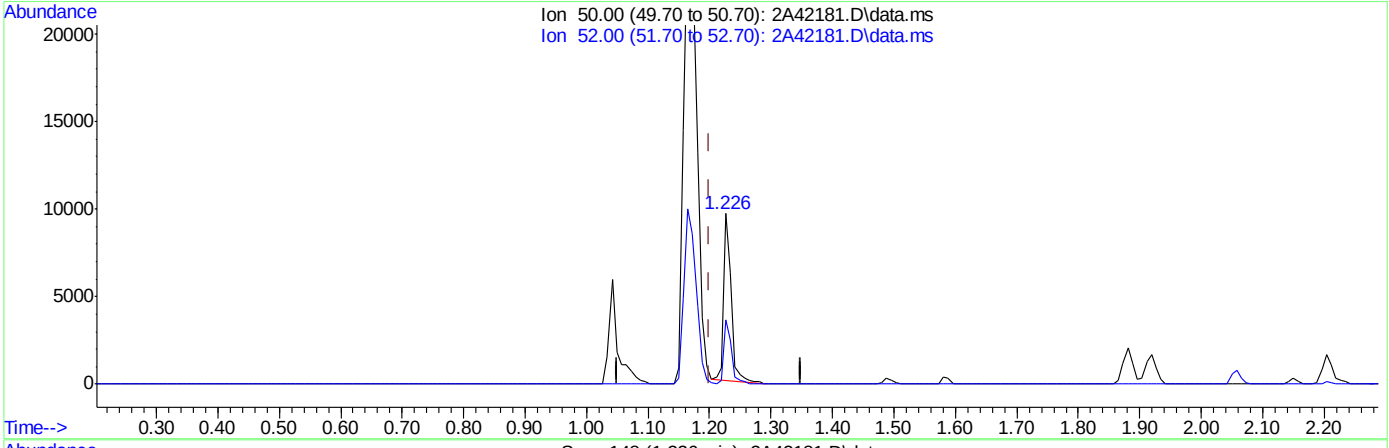
Sample Number: V2A1677-ICC1677 **Method:** SW846 8260D
Lab FileID: 2A42181.D **Analyst approved:** 12/19/22 09:22 Jo-Ann Lugo De Jesus
Injection Time: 12/16/22 12:31 **Supervisor approved:** 12/20/22 07:54 Neil Christiana

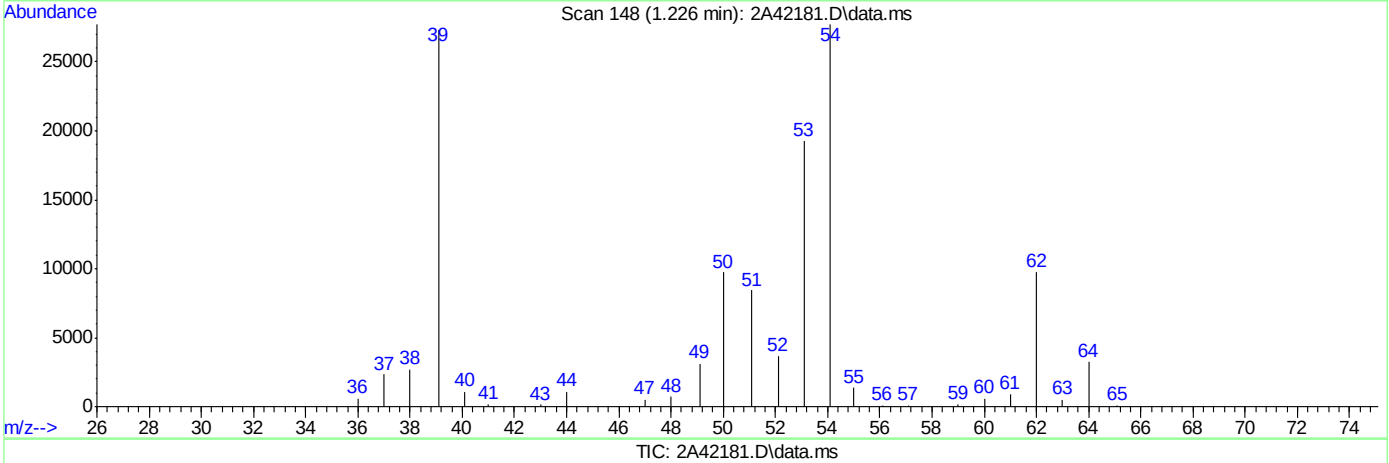
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Chloride	74-87-3		1.16	Poor instrument integration
Ethyl Alcohol	64-17-5		1.85	Poor instrument integration
Acetonitrile	75-05-8		2.37	Overlapping peak
Carbon Tetrachloride	56-23-5		3.19	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration
Ethylbenzene	100-41-4		5.67	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42181.D
Acq On : 16 Dec 2022 12:31 pm
Operator : joannel
Sample : ICC1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 14:17:06 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42181.D\data.ms

(3) Chloromethane (P)

1.226min (+0.026) 5.91ug/L

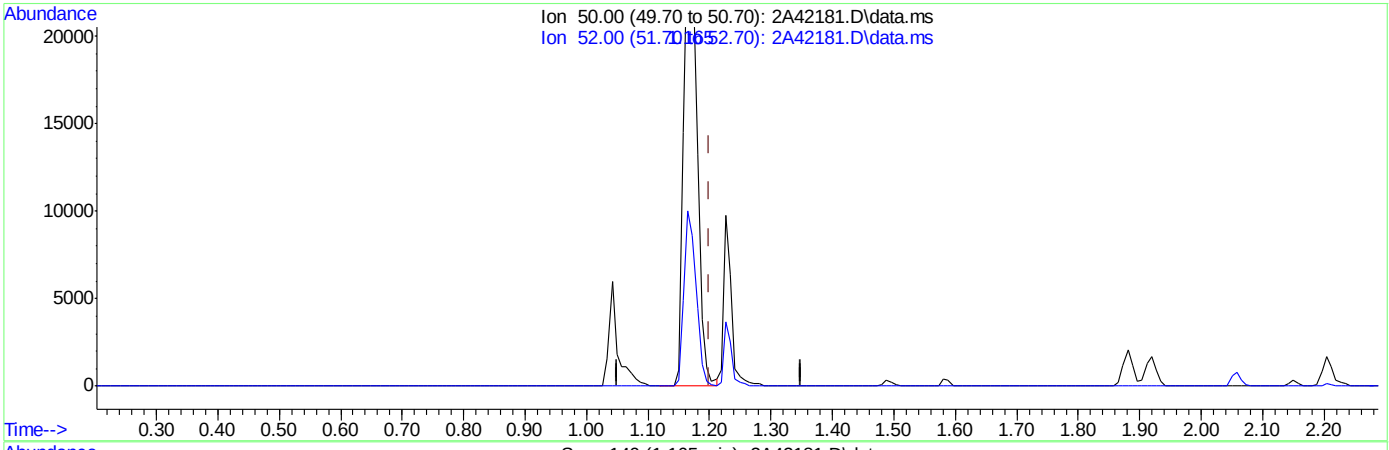
response 8456

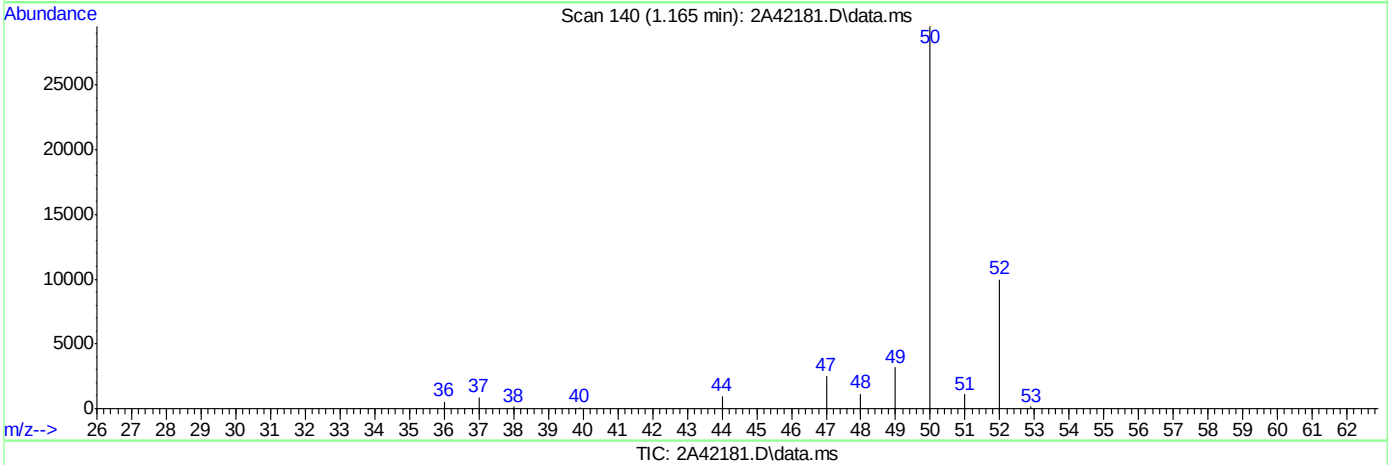
Ion	Exp%	Act%
50.00	100	100
52.00	31.60	37.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42181.D
Acq On : 16 Dec 2022 12:31 pm
Operator : joannel
Sample : ICC1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 14:17:06 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42181.D\data.ms

(3) Chloromethane (P)

1.165min (-0.035) 30.42ug/L m

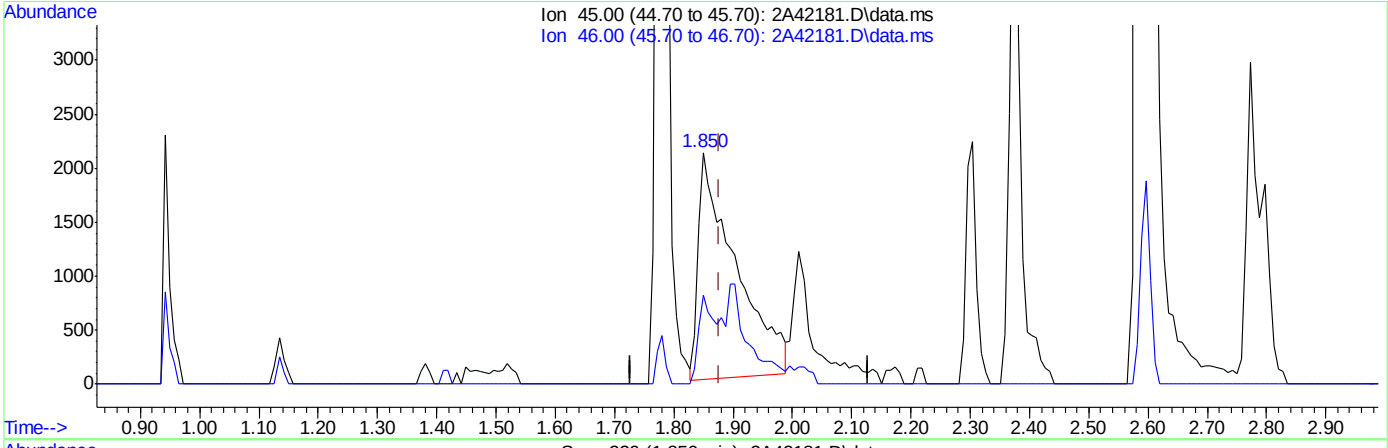
response 41094

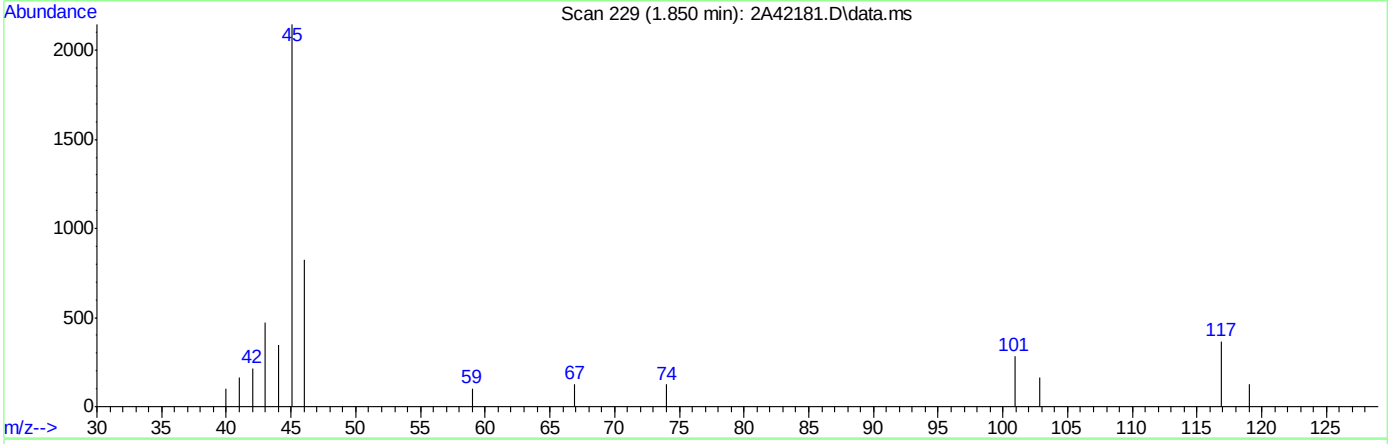
Ion	Exp%	Act%
50.00	100	100
52.00	31.60	33.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42181.D
Acq On : 16 Dec 2022 12:31 pm
Operator : joannel
Sample : ICC1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 14:17:06 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42181.D\data.ms

(10) Ethanol

1.850min (-0.028) 367.45ug/L

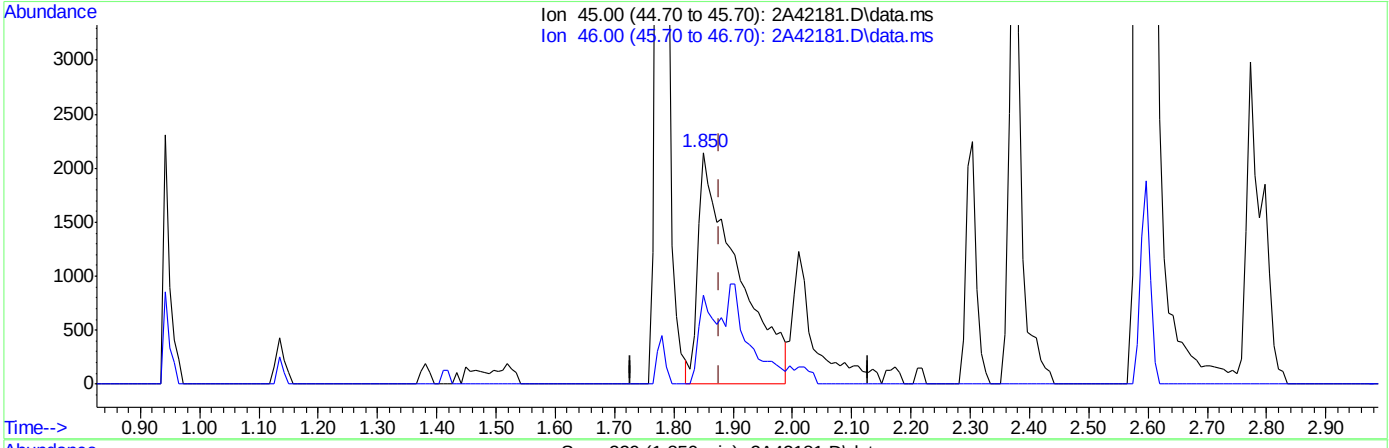
response 9218

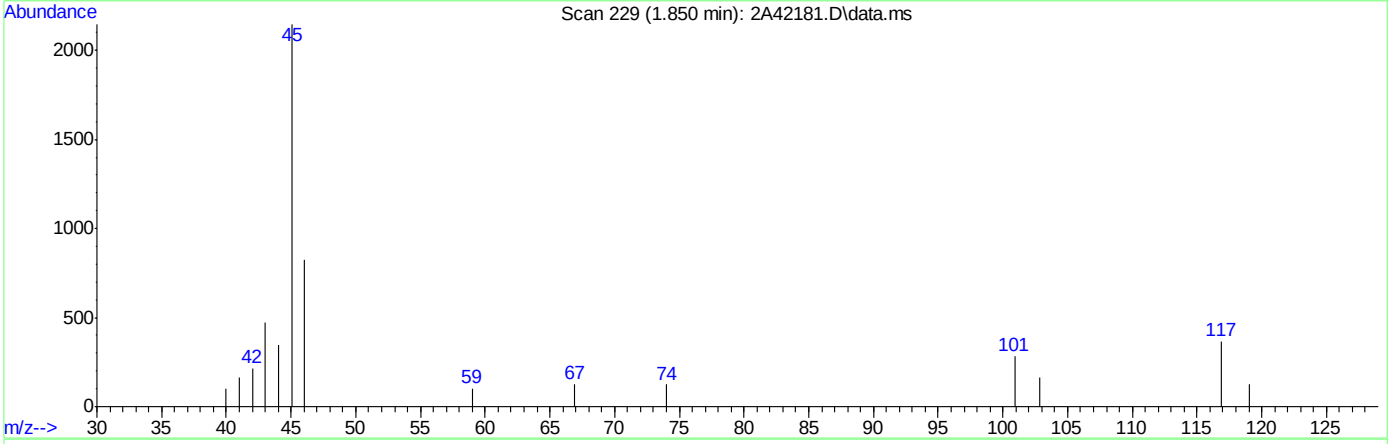
Ion	Exp%	Act%
45.00	100	100
46.00	31.20	40.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42181.D
Acq On : 16 Dec 2022 12:31 pm
Operator : joannel
Sample : ICC1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 14:17:06 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42181.D\data.ms

(10) Ethanol

1.850min (-0.028) 395.79ug/L m

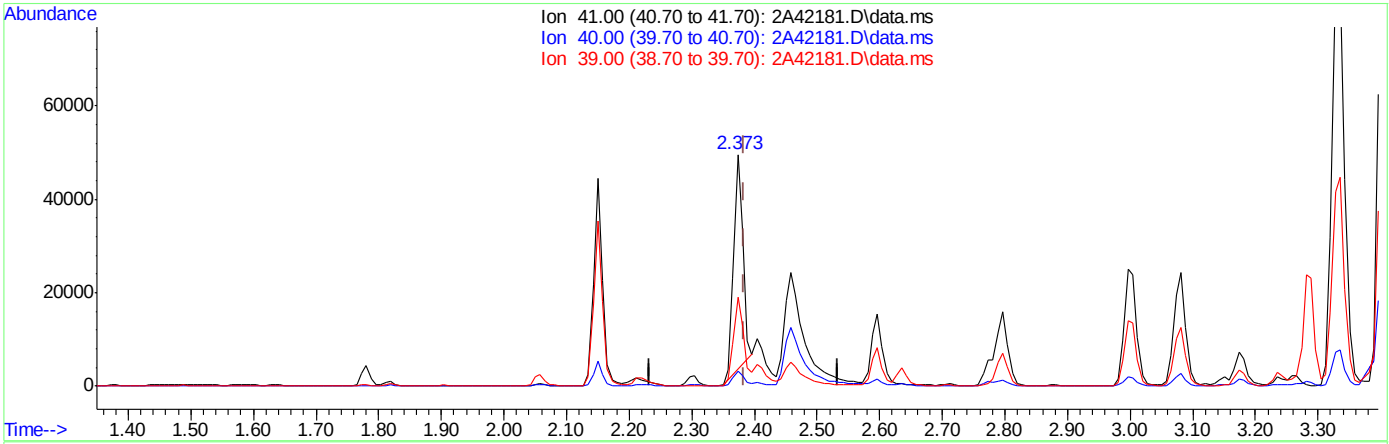
response 9929

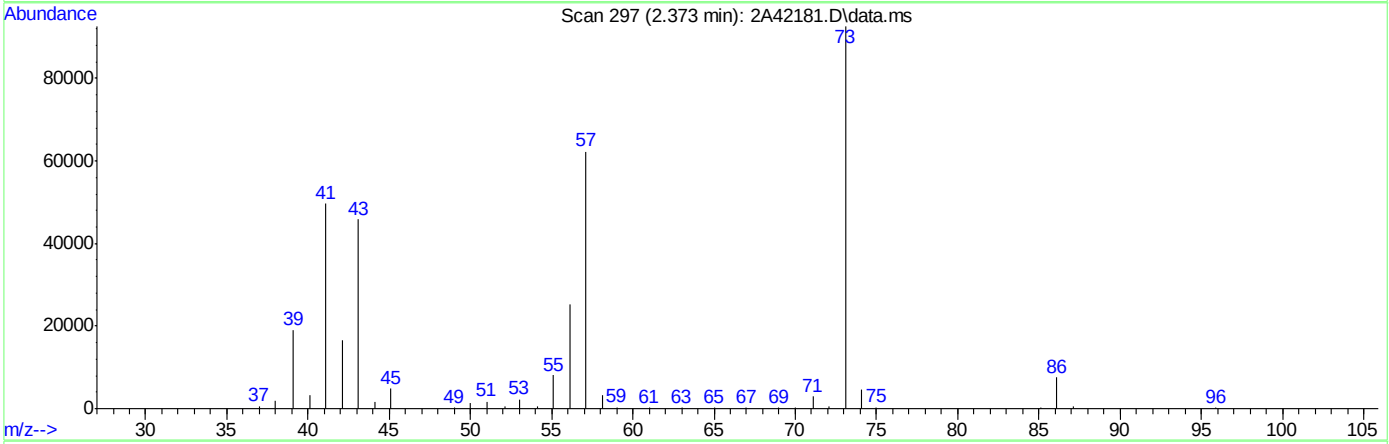
Ion	Exp%	Act%
45.00	100	100
46.00	31.20	38.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42181.D
Acq On : 16 Dec 2022 12:31 pm
Operator : joannel
Sample : ICC1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 14:17:06 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42181.D\data.ms

(24) Acetonitrile

2.373min (-0.011) 193.03ug/L

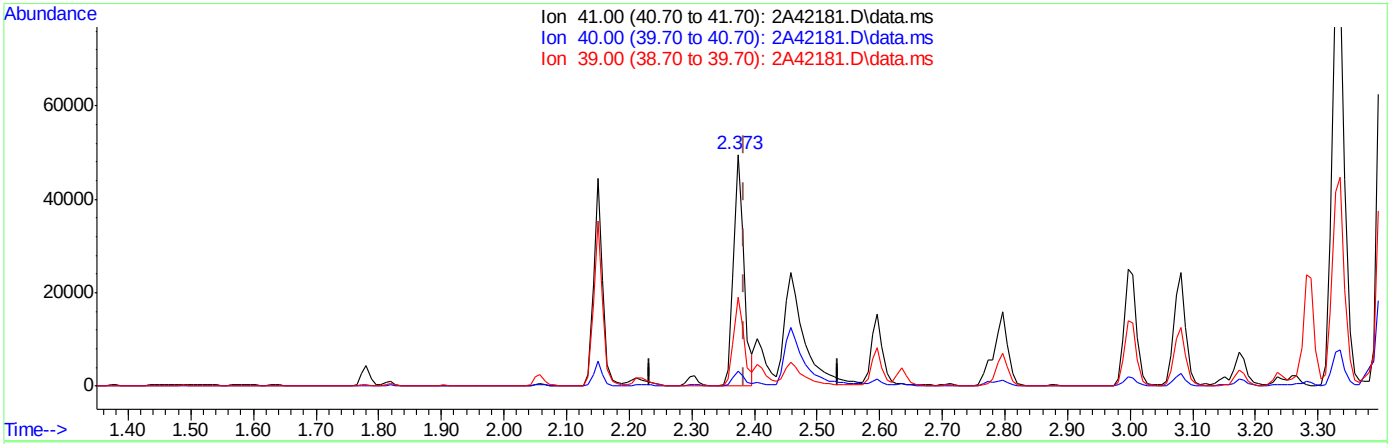
response 48378

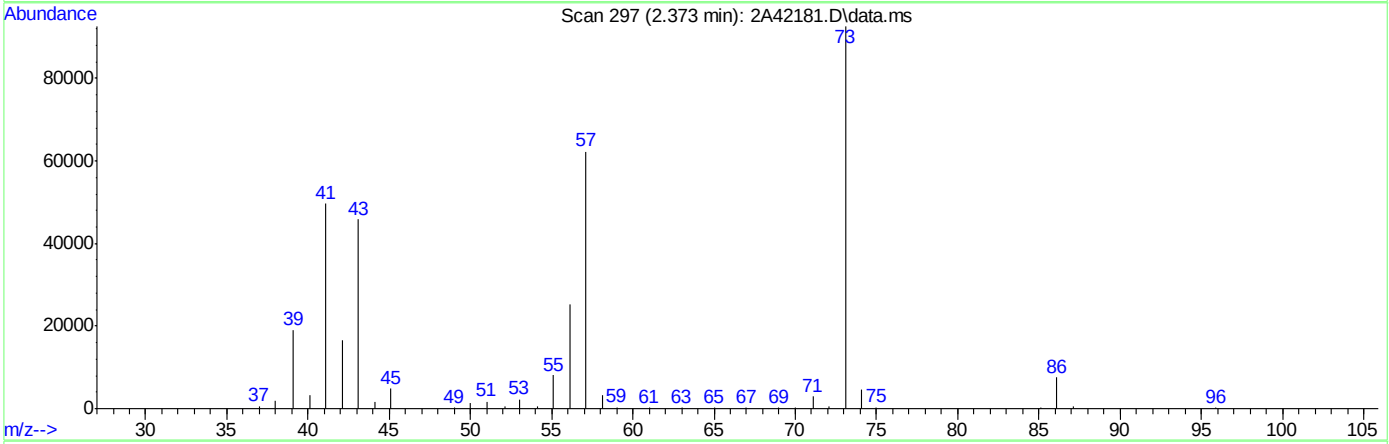
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.15
39.00	38.20	38.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42181.D
Acq On : 16 Dec 2022 12:31 pm
Operator : joannel
Sample : ICC1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 14:17:06 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42181.D\data.ms

(24) Acetonitrile

2.373min (-0.011) 233.12ug/L m

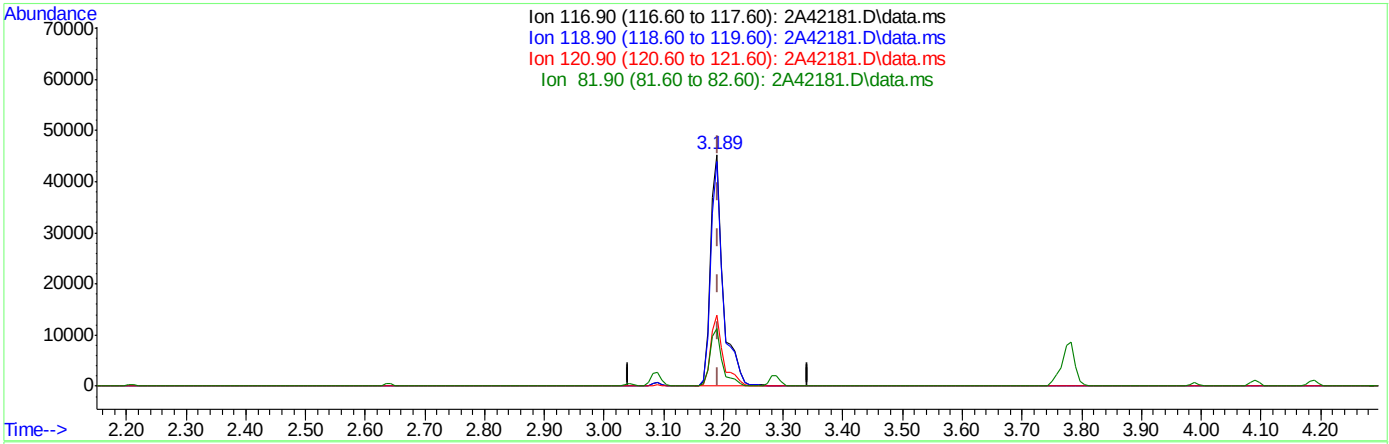
response 58097

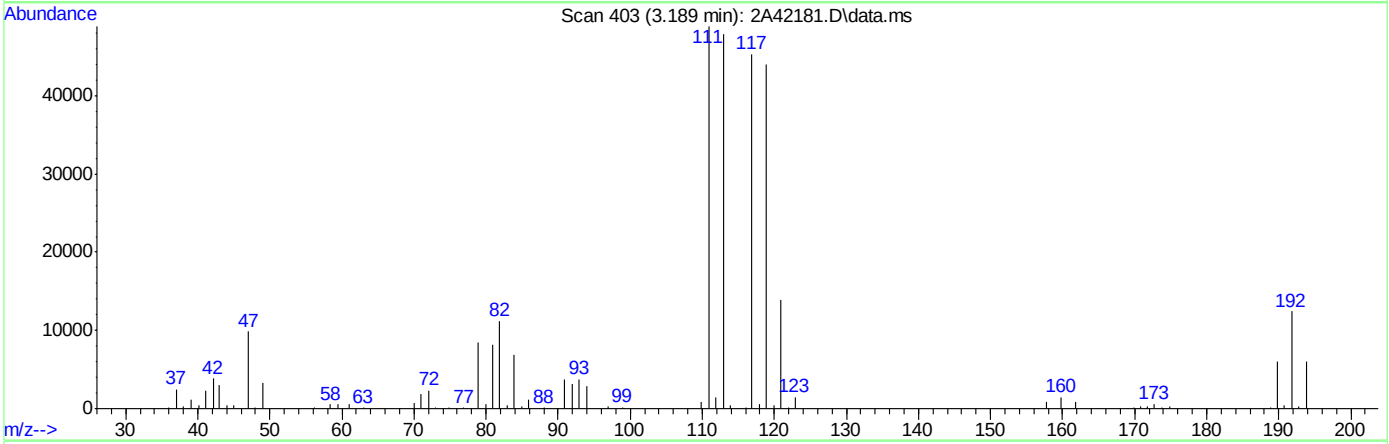
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.38
39.00	38.20	38.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42181.D
Acq On : 16 Dec 2022 12:31 pm
Operator : joannel
Sample : ICC1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 14:17:06 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42181.D\data.ms

(40) Carbon Tetrachloride ( )

3.189min (-0.002) 37.87ug/L

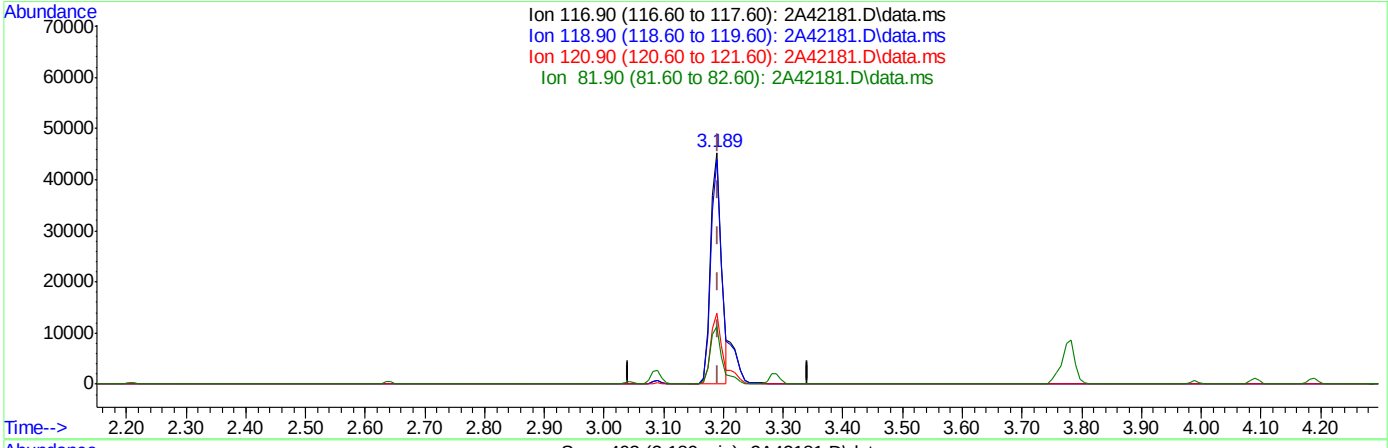
response 67446

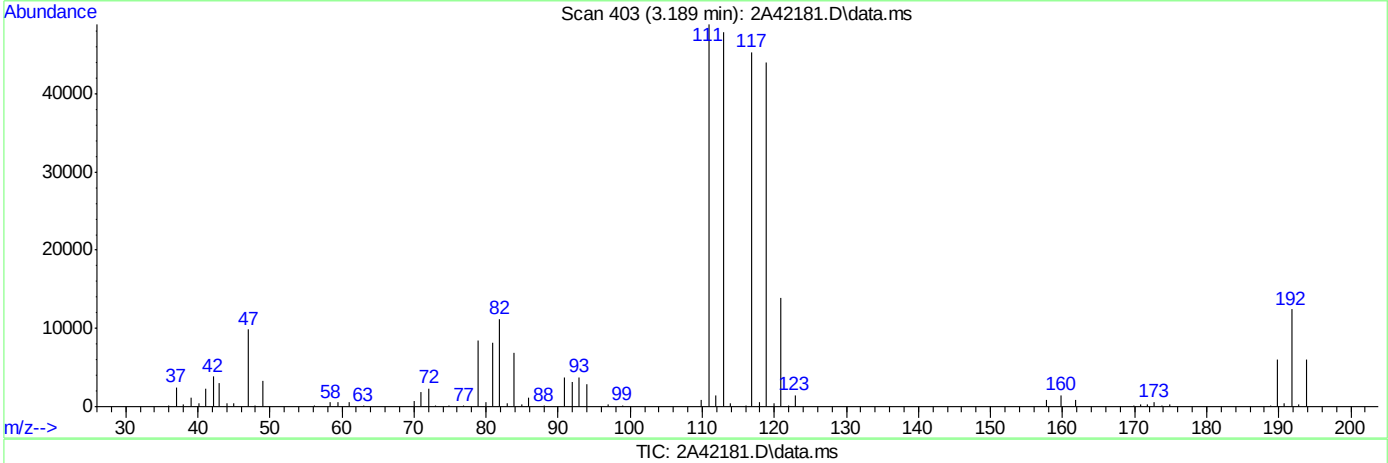
Ion	Exp%	Act%
116.90	100	100
118.90	93.10	97.16
120.90	31.00	30.71
81.90	24.60	24.83

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42181.D
Acq On : 16 Dec 2022 12:31 pm
Operator : joannel
Sample : ICC1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 14:17:06 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42181.D\data.ms

(40) Carbon Tetrachloride ( )

3.189min (-0.002) 32.69ug/L m

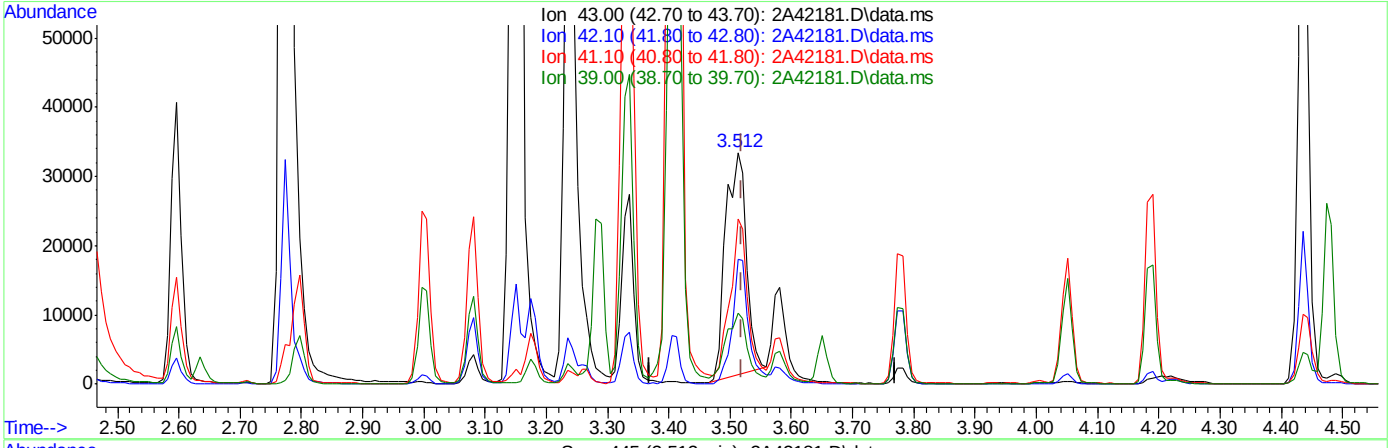
response 58232

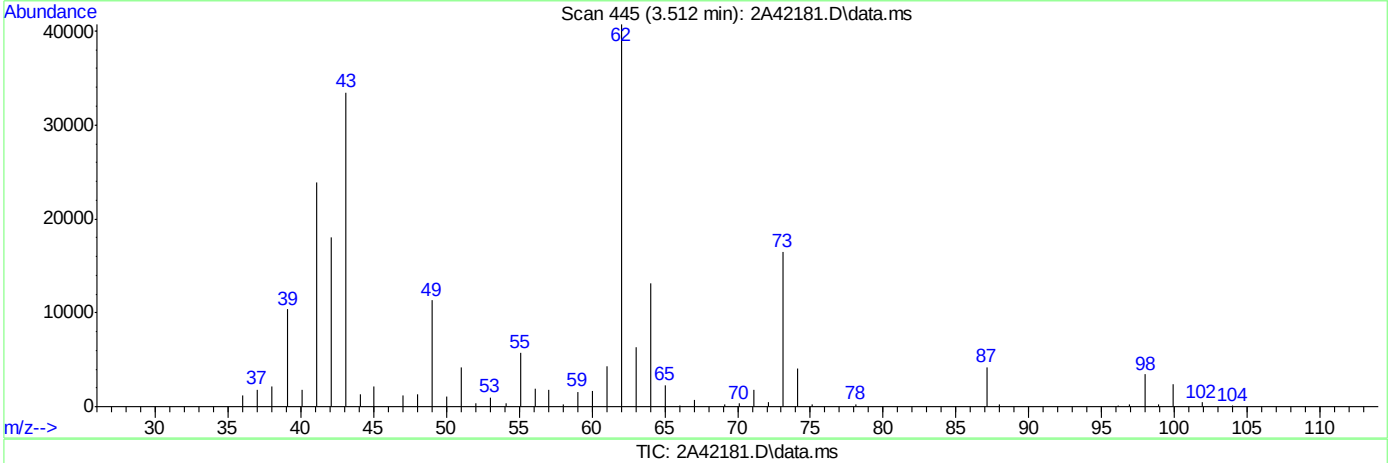
Ion	Exp%	Act%
116.90	100	100
118.90	93.10	97.16
120.90	31.00	30.71
81.90	24.60	24.83

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42181.D
Acq On : 16 Dec 2022 12:31 pm
Operator : joannel
Sample : ICC1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 14:17:06 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42181.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.008) 458.46ug/L

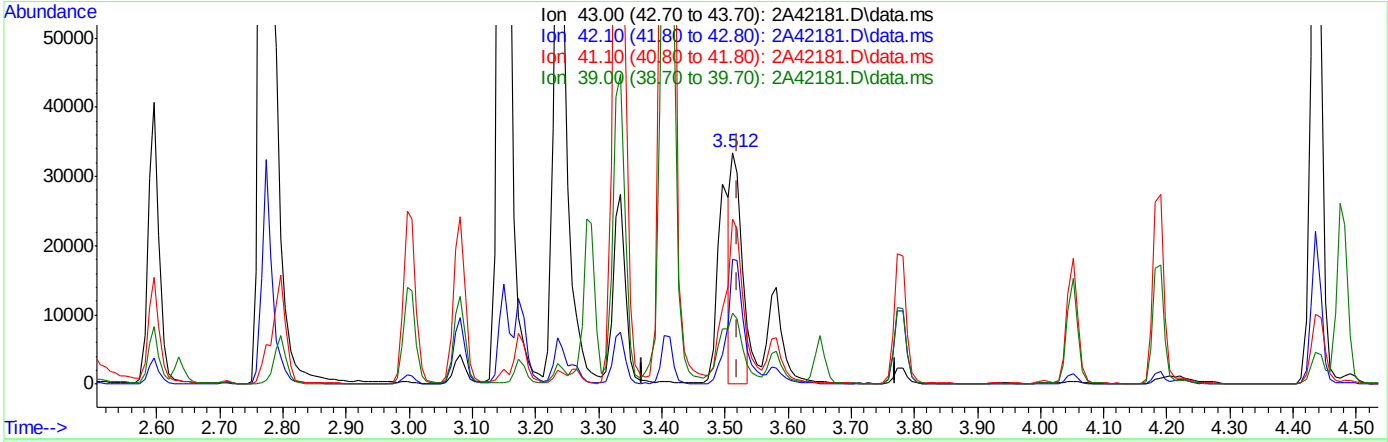
response 75851

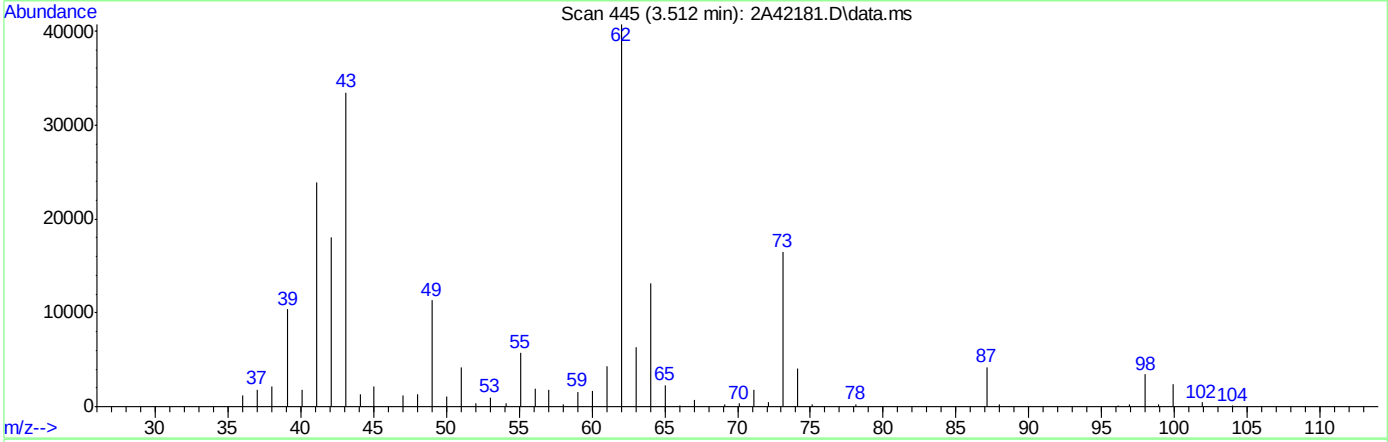
Ion	Exp%	Act%
43.00	100	100
42.10	57.60	54.00
41.10	77.70	67.85
39.00	33.60	28.29

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42181.D
Acq On : 16 Dec 2022 12:31 pm
Operator : joannel
Sample : ICC1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 14:17:06 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42181.D\data.ms

(51) Isobutyl Alcohol

3.512min (-0.008) 234.44ug/L m

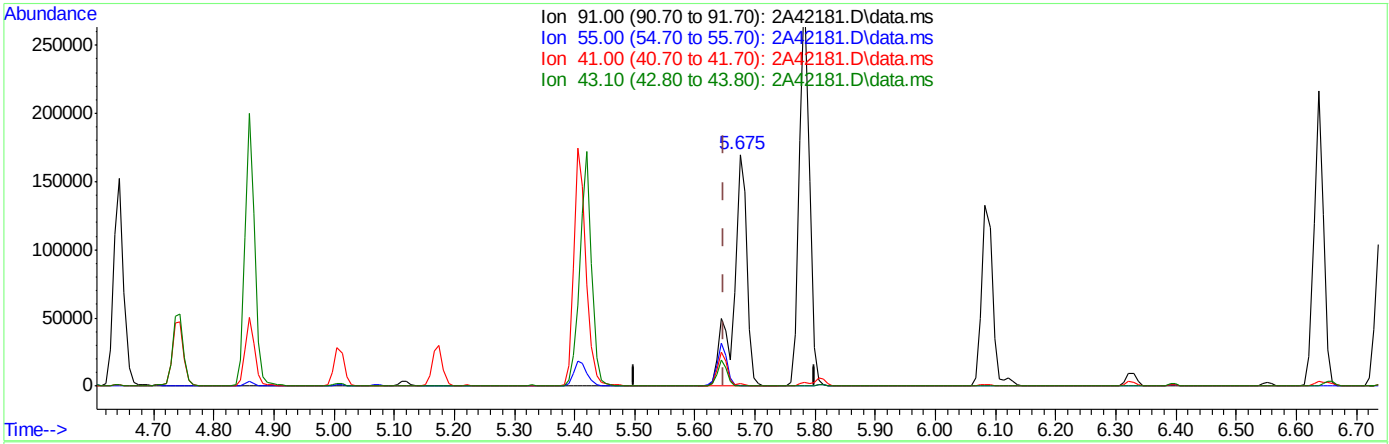
response 41039

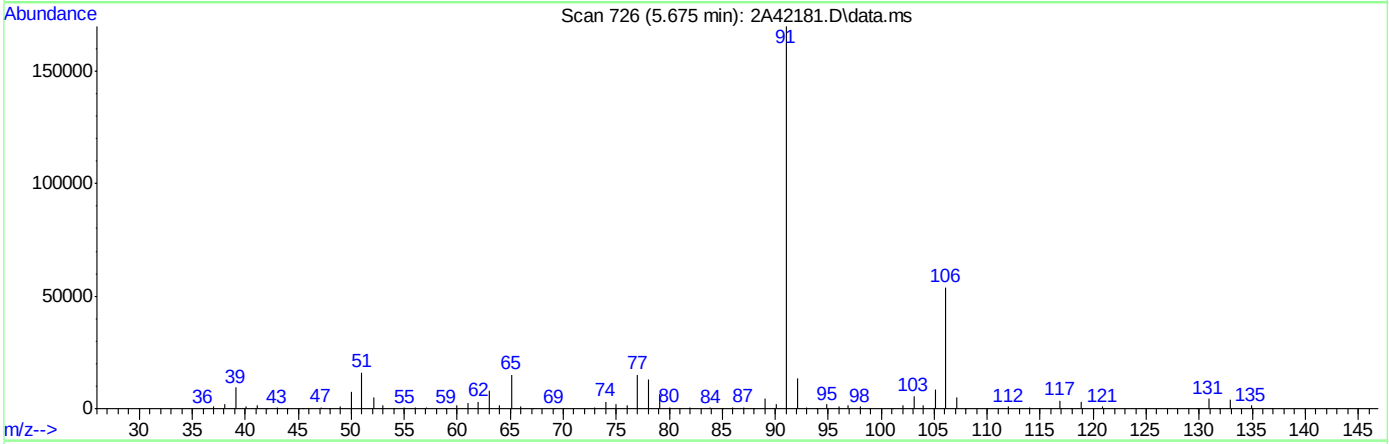
Ion	Exp%	Act%
43.00	100	100
42.10	57.60	53.73
41.10	77.70	71.34
39.00	33.60	30.88

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42181.D
Acq On : 16 Dec 2022 12:31 pm
Operator : joannel
Sample : ICC1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 14:17:06 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42181.D\data.ms

(76) 1-Chlorohexane

5.675min (+0.026) 138.89ug/L

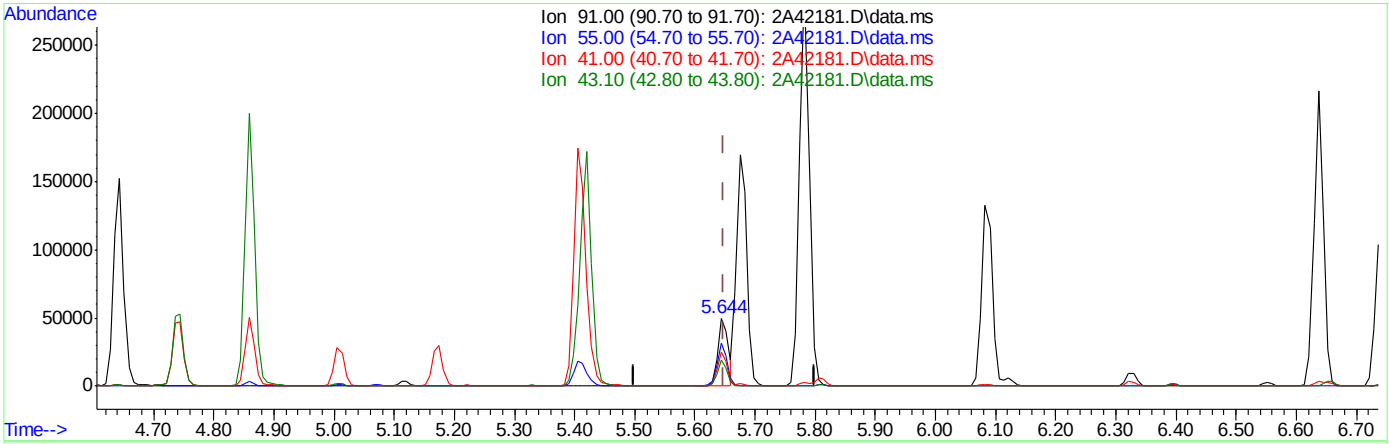
response 259610

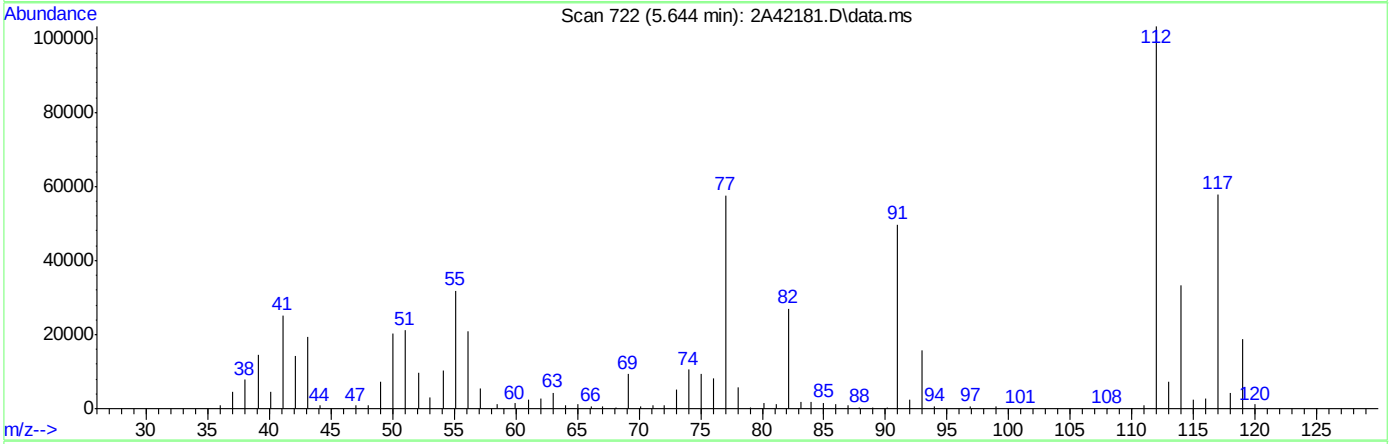
Ion	Exp%	Act%
91.00	100	100
55.00	67.70	0.21#
41.00	60.00	0.90#
43.10	48.60	0.21#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42181.D
Acq On : 16 Dec 2022 12:31 pm
Operator : joannel
Sample : ICC1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 14:17:06 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42181.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.005) 32.43ug/L m

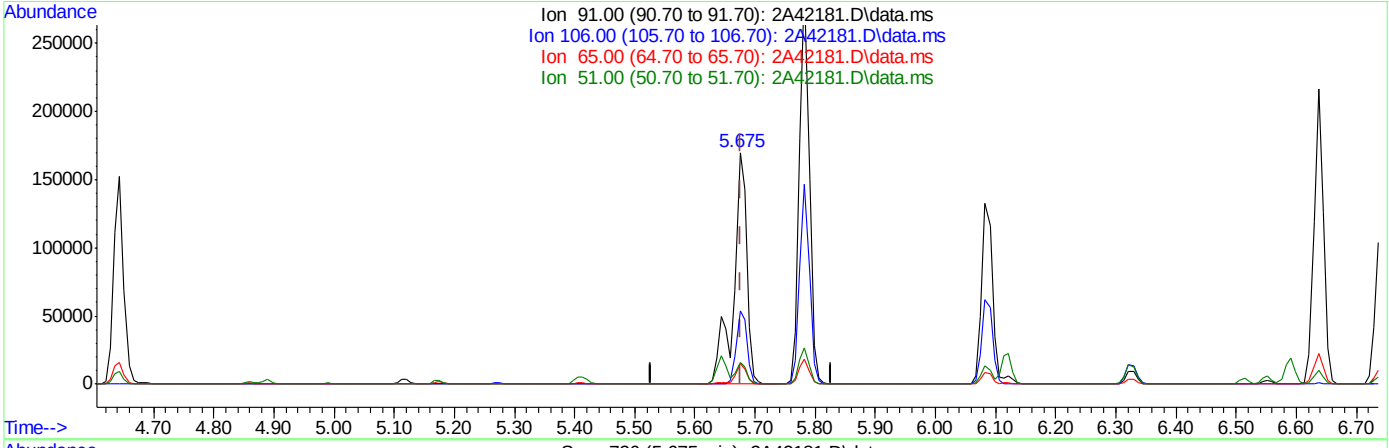
response 60611

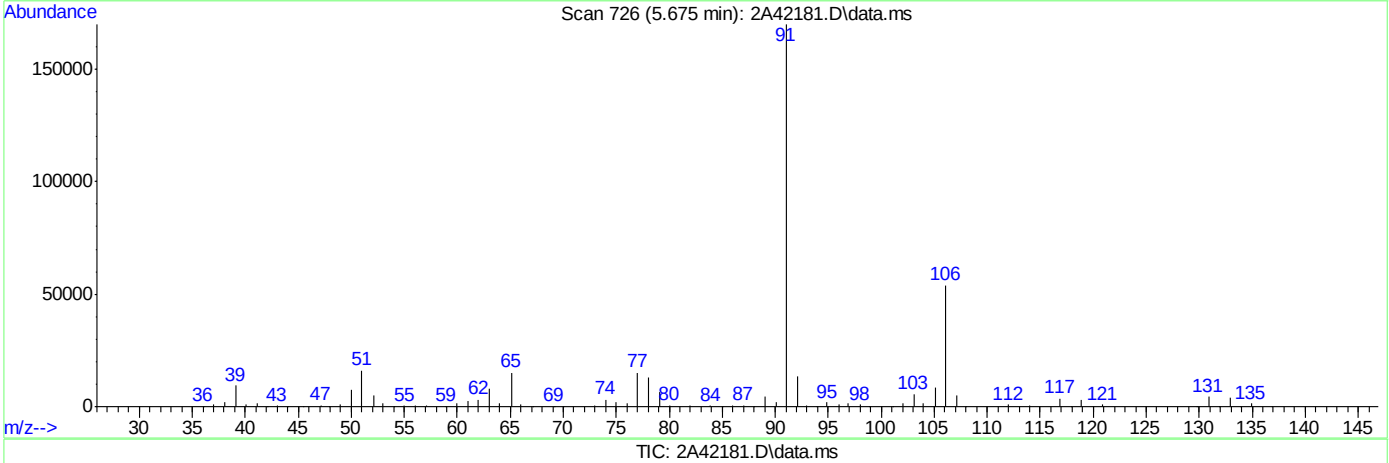
Ion	Exp%	Act%
91.00	100	100
55.00	67.70	63.97
41.00	60.00	50.76
43.10	48.60	38.83

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42181.D
Acq On : 16 Dec 2022 12:31 pm
Operator : joannel
Sample : ICC1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 14:17:06 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42181.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.002) 43.44ug/L

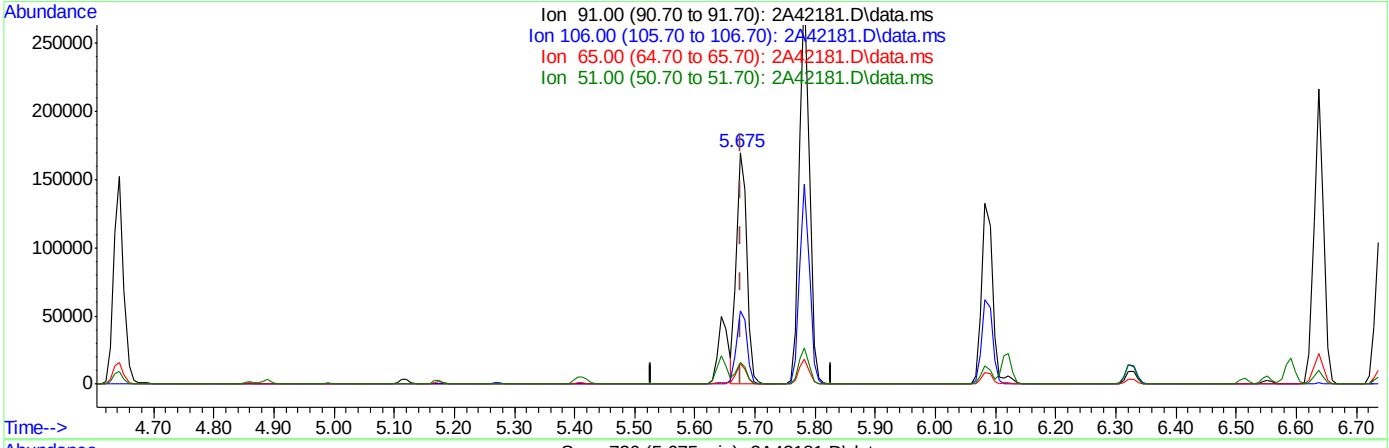
response 259610

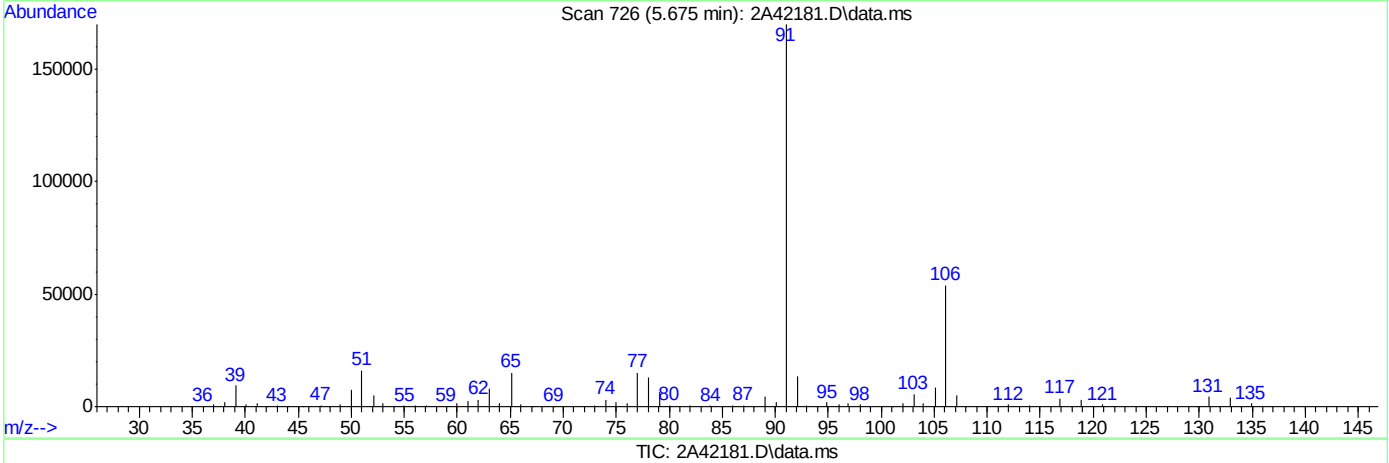
Ion	Exp%	Act%
91.00	100	100
106.00	31.90	31.81
65.00	8.70	8.83
51.00	11.10	9.48

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42181.D
Acq On : 16 Dec 2022 12:31 pm
Operator : joannel
Sample : ICC1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 14:17:06 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42181.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.002) 33.29ug/L m

response 198983

Ion	Exp%	Act%
91.00	100	100
106.00	31.90	31.81
65.00	8.70	8.83
51.00	11.10	9.48

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 12/20/22 07:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42183.D
Acq On : 16 Dec 2022 1:06 pm
Operator : joannel
Sample : IC1677-6
Misc : MS53004,V2A1677,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 16 15:08:24 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.651	96	231093	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.636	117	177917	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.384	152	96990	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.181	113	65612	52.31	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.62%				
49) 1,2-Dichloroethane-d4	3.482	65	75675	52.69	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.38%				
63) Toluene-d8	4.605	98	225250	56.41	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 112.82%#				
86) 4-Bromofluorobenzene	6.514	174	82839	57.19	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 114.38%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.042	85	93147	97.20	ug/L		97
3) Chloromethane	1.173	50	72044	55.66	ug/L		96
4) 1,3-butadiene	1.226	39	50577	42.91	ug/L		91
5) Vinyl Chloride	1.211	62	79475	66.16	ug/L		94
6) Bromomethane	1.411	94	51046	58.58	ug/L		100
7) Chloroethane	1.488	64	30484	28.42	ug/L		87
8) Trichlorofluoromethane	1.581	101	114599	42.45	ug/L		98
9) Ethyl Ether	1.781	59	57659	45.45	ug/L		82
10) Ethanol	1.858	45	18541m	724.16	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.881	67	90767	68.20	ug/L		96
12) 1,1-Dichloroethene	1.881	61	111148	65.58	ug/L		98
13) Freon 113	1.919	101	84201	63.98	ug/L		92
14) Carbon Disulfide	1.896	76	204443	61.59	ug/L		86
15) Iodomethane	1.958	142	123502	103.23	ug/L		91
16) Acrolein	2.058	56	85504	260.05	ug/L		99
17) Allyl chloride	2.150	41	89063	62.23	ug/L		93
18) Methylene Chloride	2.204	49	88423	53.02	ug/L		76
19) Acetone	2.219	43	125441	229.95	ug/L		93
20) Methyl acetate	2.304	43	315673	177.68	ug/L		87
21) trans-1,2-Dichloroethene	2.304	61	107919	59.34	ug/L		90
22) Hexane	2.373	56	65563	55.00	ug/L	#	87
23) Methyl Tert Butyl Ether	2.373	73	235775	71.84	ug/L		77
24) Acetonitrile	2.373	41	120308m	490.90	ug/L		
25) Tert Butyl Alcohol	2.412	59	163126	507.21	ug/L		85
26) Di-isopropyl ether	2.596	45	202454	44.56	ug/L		92
27) Chloroprene	2.635	53	257295	59.77	ug/L	#	86
28) 1,1-Dichloroethane	2.635	63	136293	58.92	ug/L		98
29) Acrylonitrile	2.635	52	159692	228.18	ug/L	#	68
30) ETBE	2.797	59	230773	54.57	ug/L		92
31) Vinyl acetate	2.773	43	699783	229.77	ug/L		99
32) cis-1,2-Dichloroethene	2.935	96	87265	63.58	ug/L		92
33) 2,2-Dichloropropane	2.997	77	129155	71.61	ug/L		99
34) Bromochloromethane	3.043	128	45037	72.97	ug/L		88
35) Cyclohexane	3.081	56	121817	53.74	ug/L	#	83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42183.D
Acq On : 16 Dec 2022 1:06 pm
Operator : joannel
Sample : IC1677-6
Misc : MS53004,V2A1677,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 16 15:08:24 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.089	83	152836	64.85	ug/L		96
37) Ethyl acetate	3.151	43	425085	190.30	ug/L		94
38) Tetrahydrofuran	3.174	42	25444	31.84	ug/L		87
40) Carbon Tetrachloride	3.189	117	120263m	66.15	ug/L		
41) 1,1,1-Trichloroethane	3.212	97	134702	68.66	ug/L		96
42) 2-Butanone	3.235	43	224556	187.07	ug/L		84
43) 1,1-Dichloropropene	3.281	75	114380	69.81	ug/L		86
44) tert-Butyl formate	3.335	59	360682	369.24	ug/L		90
45) Propionitrile	3.389	54	134446	390.98	ug/L		96
46) Methacrylonitrile	3.412	41	503979	350.31	ug/L		95
47) Benzene	3.420	78	321134	60.02	ug/L		76
48) TAME	3.497	73	226237	64.74	ug/L		86
50) 1,2-Dichloroethane	3.520	62	112762	56.67	ug/L		93
51) Isobutyl Alcohol	3.520	43	84648m	507.79	ug/L		
52) Tert Amyl Alcohol	3.582	59	117053	362.53	ug/L		85
53) Trichloroethene	3.759	95	93698	63.80	ug/L		97
54) Methylcyclohexane	3.782	83	144069	66.98	ug/L	#	83
55) Dibromomethane	3.989	93	57619	60.40	ug/L		91
56) 1,2-Dichloropropane	4.051	63	79817	56.53	ug/L		88
57) Bromodichloromethane	4.090	83	111880	66.27	ug/L		95
58) Methyl methacrylate	4.190	41	70138	41.33	ug/L	#	81
59) 1,4-Dioxane	4.205	88	22574	1060.80	ug/L		87
60) 2-Chloroethyl vinyl ether	4.436	63	300608	285.49	ug/L		86
61) cis-1,3-Dichloropropene	4.474	75	135245	68.70	ug/L		86
64) Toluene	4.644	91	349753	68.91	ug/L		99
65) 2-Nitropropane	4.744	41	132368	238.18	ug/L		97
66) 4-Methyl-2-pentanone	4.859	43	445797	203.58	ug/L		93
67) trans-1,3-Dichloropropene	4.890	75	120203	71.88	ug/L		87
68) Tetrachloroethene	4.905	166	107117	76.73	ug/L		92
69) Ethyl methacrylate	5.005	69	107904	62.25	ug/L	#	79
70) 1,1,2-Trichloroethane	4.990	83	66889	68.77	ug/L		93
71) Dibromochloromethane	5.121	129	97224	72.16	ug/L		96
72) 1,3-Dichloropropane	5.175	76	131538	68.73	ug/L		81
73) 1,2-Dibromoethane	5.275	107	90277	69.97	ug/L		96
74) 3,3-Dimethyl-1-Butanol	5.413	57	654611	1742.87	ug/L		88
75) 2-hexanone	5.421	43	436125	174.72	ug/L		79
76) 1-Chlorohexane	5.644	91	121349m	65.19	ug/L		
77) Ethylbenzene	5.675	91	391482m	65.77	ug/L		
78) Chlorobenzene	5.644	112	234184	65.48	ug/L		96
79) 1,1,1,2-Tetrachloroethane	5.690	131	88516	65.29	ug/L		94
80) m,p-Xylene	5.783	91	634848	135.00	ug/L		98
81) o-Xylene	6.083	91	324381	71.04	ug/L		97
82) Styrene	6.121	104	258906	71.27	ug/L		95
83) Bromoform	6.121	173	70554	69.03	ug/L		98
84) Isopropylbenzene	6.329	105	394127	69.72	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.552	53	36354	46.77	ug/L	#	62
88) n-Propylbenzene	6.637	91	460663	63.28	ug/L		97
89) Bromobenzene	6.591	156	108884	68.45	ug/L		93
90) 1,1,2,2-Tetrachloroethane	6.660	83	114123	57.53	ug/L		98
91) 1,3,5-Trimethylbenzene	6.791	105	340999	63.52	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42183.D
Acq On : 16 Dec 2022 1:06 pm
Operator : joannel
Sample : IC1677-6
Misc : MS53004,V2A1677,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 16 15:08:24 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

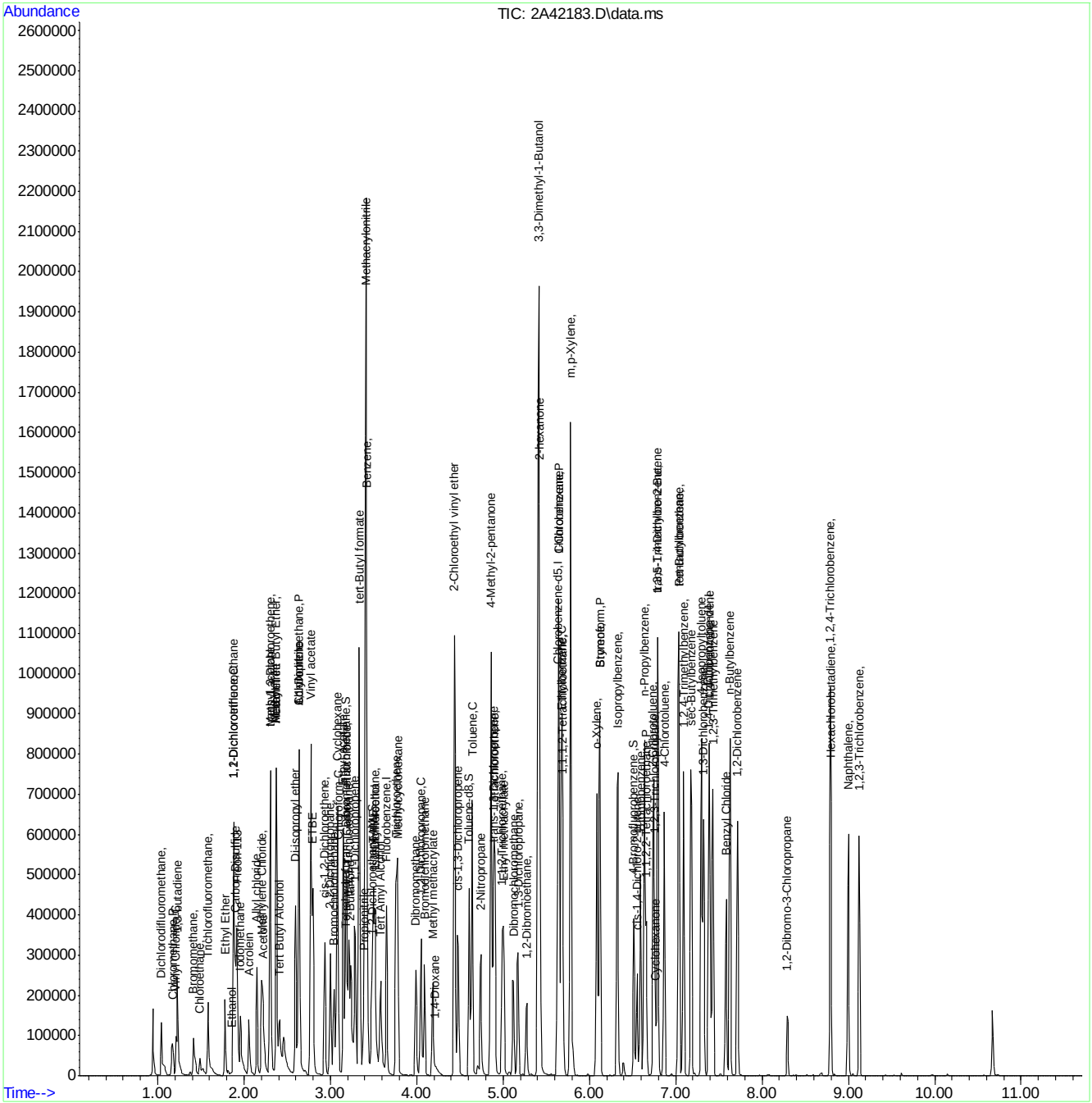
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.737	91	266944	65.33	ug/L		94
93)	trans-1,4-Dichloro-2-B...	6.791	53	39044	45.16	ug/L	#	61
94)	1,2,3-Trichloropropane	6.752	110	36244	56.68	ug/L		92
95)	Cyclohexanone	6.768	55	19483	157.64	ug/L		91
96)	4-Chlorotoluene	6.868	91	280565	64.48	ug/L		95
97)	tert-Butylbenzene	7.037	91	190304	64.71	ug/L		92
98)	1,2,4-Trimethylbenzene	7.091	105	321941	62.25	ug/L		98
99)	Pentachloroethane	7.037	167	58480	69.95	ug/L	#	75
100)	sec-Butylbenzene	7.176	105	411588	63.50	ug/L		97
101)	4-Isopropyltoluene	7.299	119	360923	63.82	ug/L		98
102)	1,3-Dichlorobenzene	7.322	146	197197	65.64	ug/L		99
103)	1,2,3-Trimethylbenzene	7.430	105	309086	61.71	ug/L		99
104)	1,4-Dichlorobenzene	7.391	146	198478	60.91	ug/L		99
105)	n-Butylbenzene	7.630	92	174649	61.98	ug/L		98
106)	Benzyl Chloride	7.584	126	49807	67.10	ug/L		98
107)	1,2-Dichlorobenzene	7.715	146	183420	65.60	ug/L		97
108)	1,2-Dibromo-3-Chloropr...	8.292	75	24702	56.13	ug/L	#	89
109)	Hexachlorobutadiene	8.800	225	72159	97.10	ug/L	#	75
110)	1,2,4-Trichlorobenzene	8.792	180	126799	78.24	ug/L		96
111)	Naphthalene	9.000	128	318158	58.08	ug/L		98
112)	1,2,3-Trichlorobenzene	9.123	180	121417	82.12	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42183.D
Acq On : 16 Dec 2022 1:06 pm
Operator : joannel
Sample : IC1677-6
Misc : MS53004,V2A1677,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 16 15:08:24 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration



Manual Integration Approval Summary

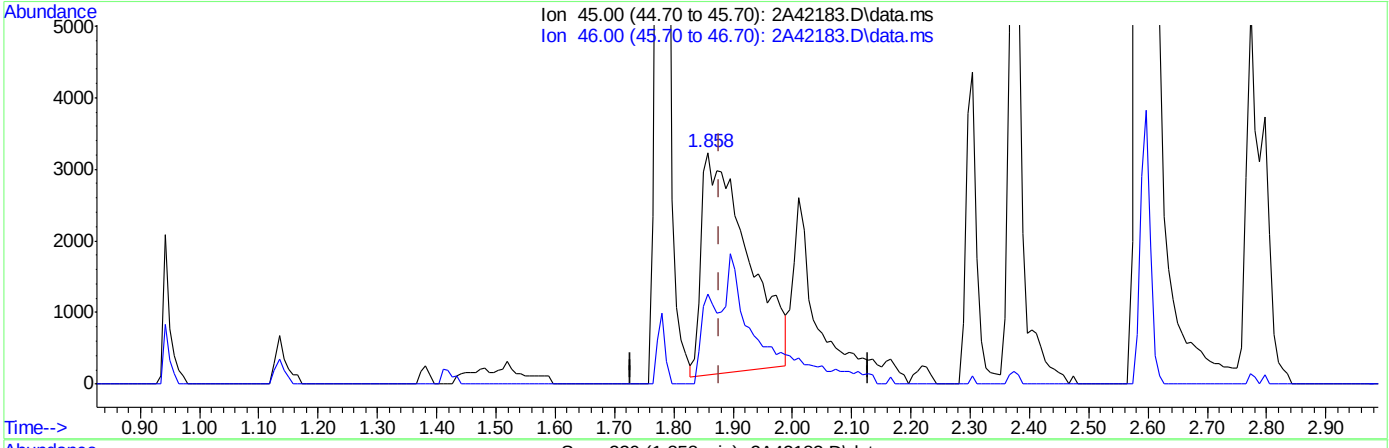
Sample Number: V2A1677-IC1677 **Method:** SW846 8260D
Lab FileID: 2A42183.D **Analyst approved:** 12/19/22 09:22 Jo-Ann Lugo De Jesus
Injection Time: 12/16/22 13:06 **Supervisor approved:** 12/20/22 07:54 Neil Christiana

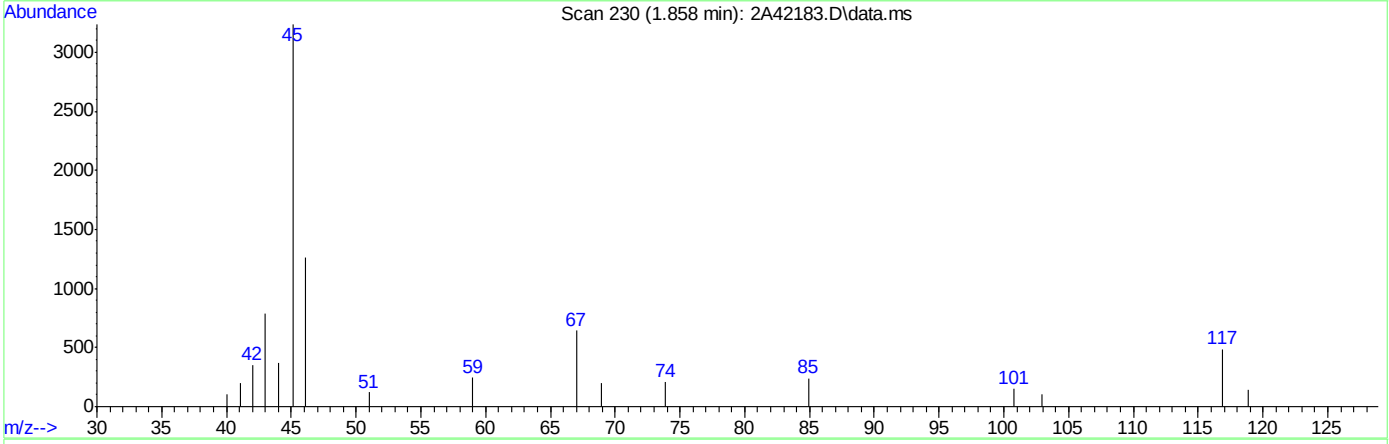
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.86	Poor instrument integration
Acetonitrile	75-05-8		2.37	Overlapping peak
Carbon Tetrachloride	56-23-5		3.19	Overlapping peak
Isobutyl Alcohol	78-83-1		3.52	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration
Ethylbenzene	100-41-4		5.67	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42183.D
Acq On : 16 Dec 2022 1:06 pm
Operator : joannel
Sample : IC1677-6
Misc : MS53004,V2A1677,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 16 14:17:08 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42183.D\data.ms

(10) Ethanol

1.858min (-0.020) 657.13ug/L

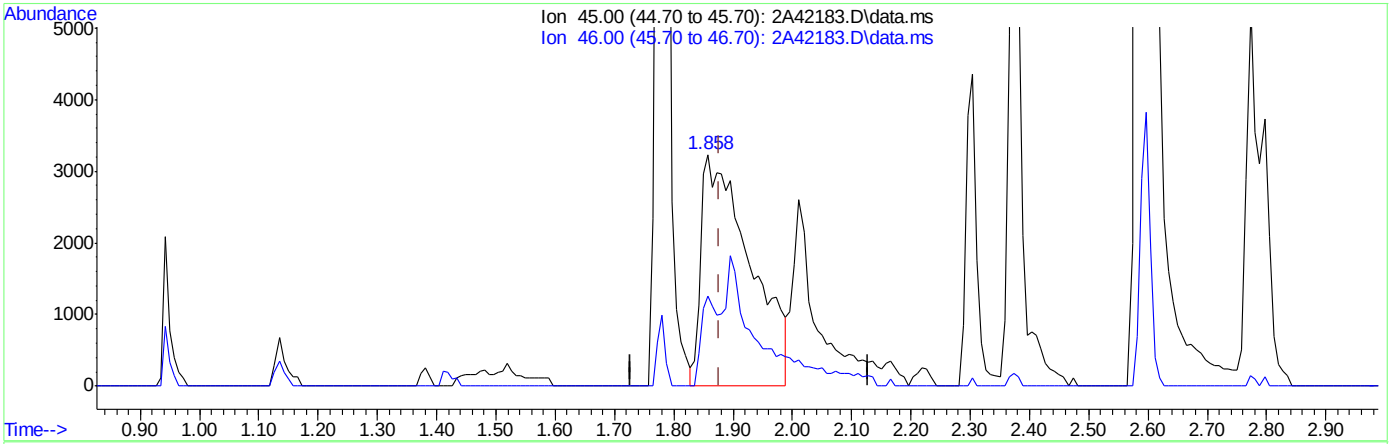
response 16825

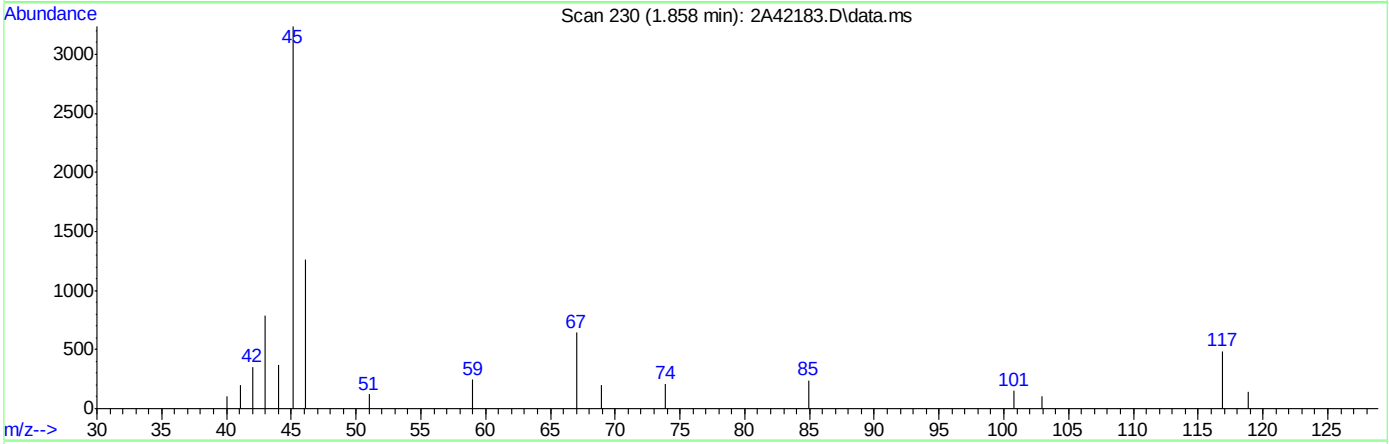
Ion	Exp%	Act%
45.00	100	100
46.00	31.20	42.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42183.D
Acq On : 16 Dec 2022 1:06 pm
Operator : joannel
Sample : IC1677-6
Misc : MS53004,V2A1677,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 16 14:17:08 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42183.D\data.ms

(10) Ethanol

1.858min (-0.020) 724.16ug/L m

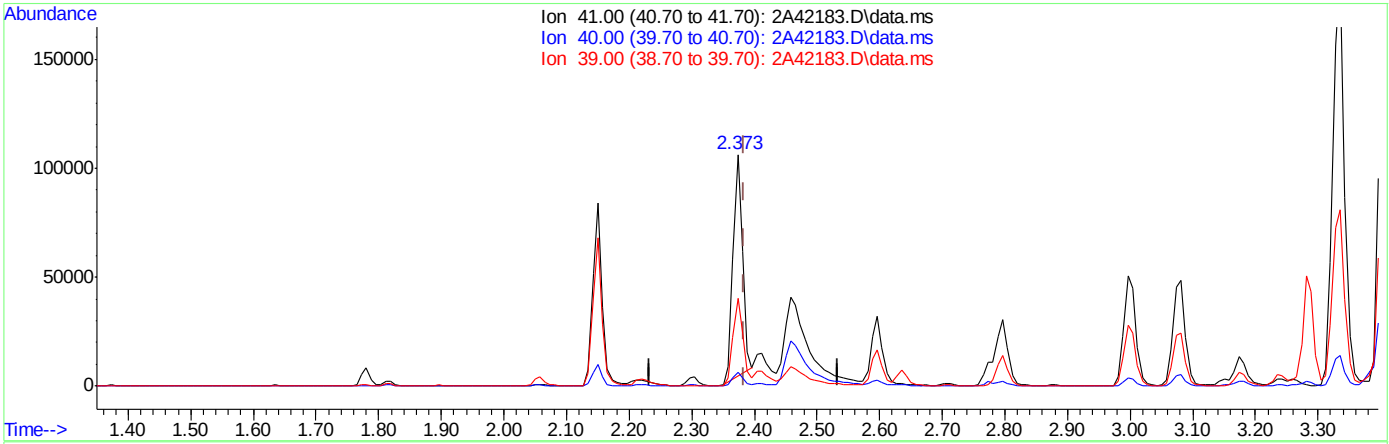
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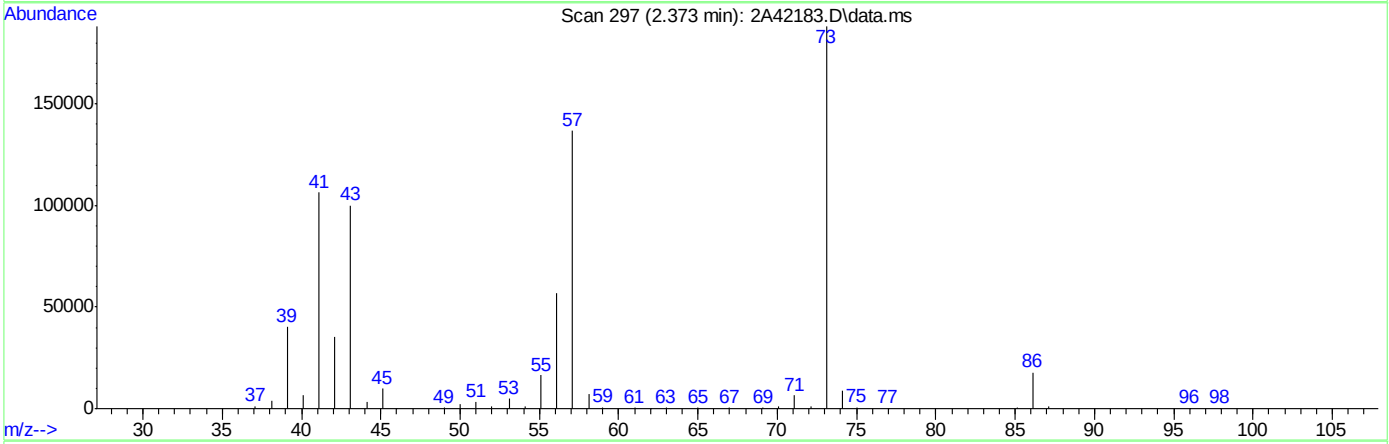
Ion	Exp%	Act%
45.00	100	100
46.00	31.20	39.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42183.D
Acq On : 16 Dec 2022 1:06 pm
Operator : joannel
Sample : IC1677-6
Misc : MS53004,V2A1677,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 16 14:17:08 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42183.D\data.ms

(24) Acetonitrile

2.373min (-0.011) 434.25ug/L

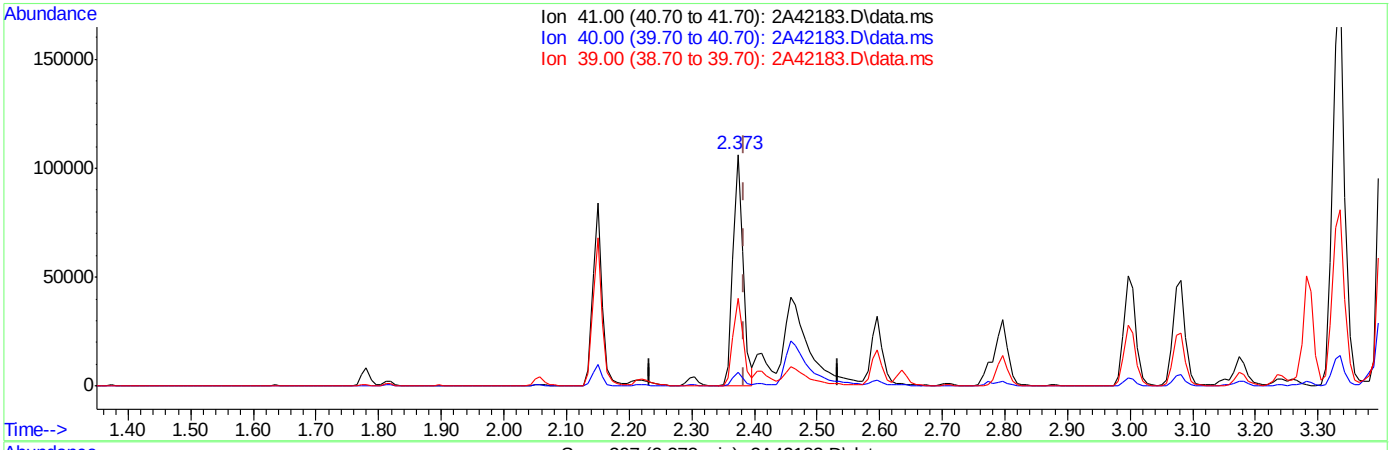
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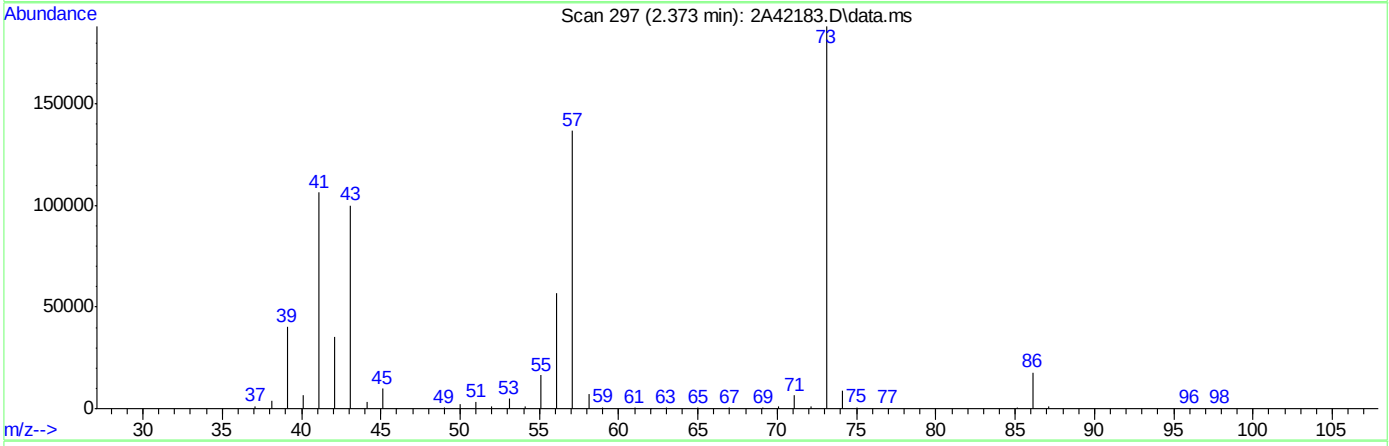
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	5.96
39.00	38.20	37.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42183.D
Acq On : 16 Dec 2022 1:06 pm
Operator : joannel
Sample : IC1677-6
Misc : MS53004,V2A1677,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 16 14:17:08 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42183.D\data.ms

(24) Acetonitrile

2.373min (-0.011) 490.90ug/L m

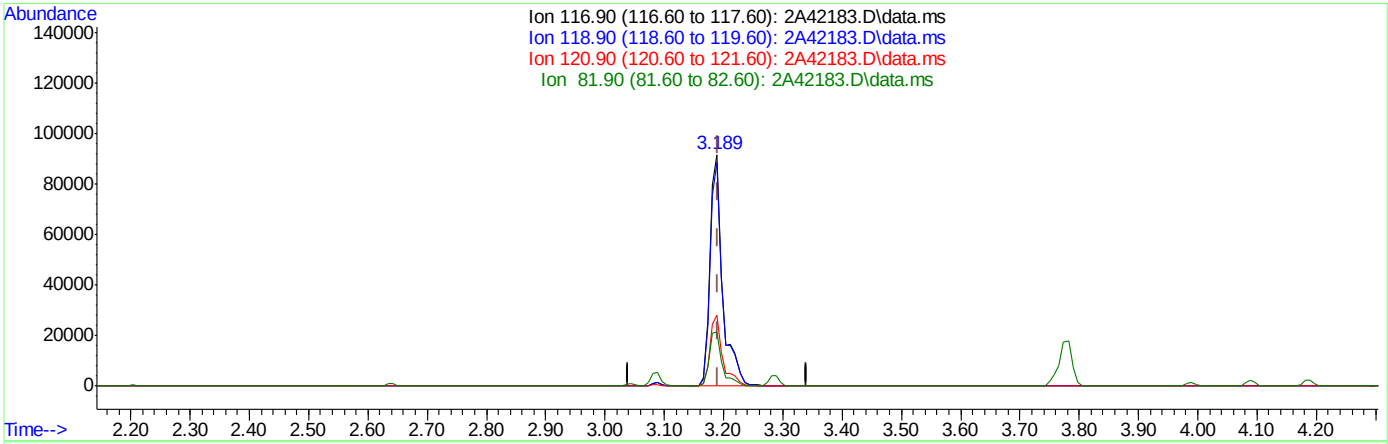
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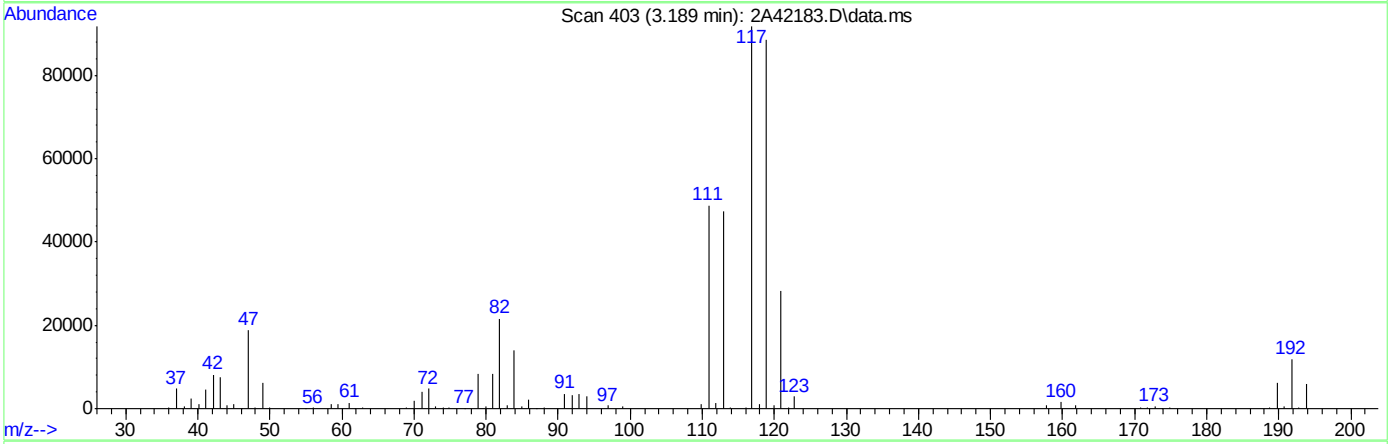
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.05
39.00	38.20	37.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42183.D
Acq On : 16 Dec 2022 1:06 pm
Operator : joannel
Sample : IC1677-6
Misc : MS53004,V2A1677,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 16 14:17:08 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42183.D\data.ms

(40) Carbon Tetrachloride ( )

3.189min (-0.002) 76.10ug/L

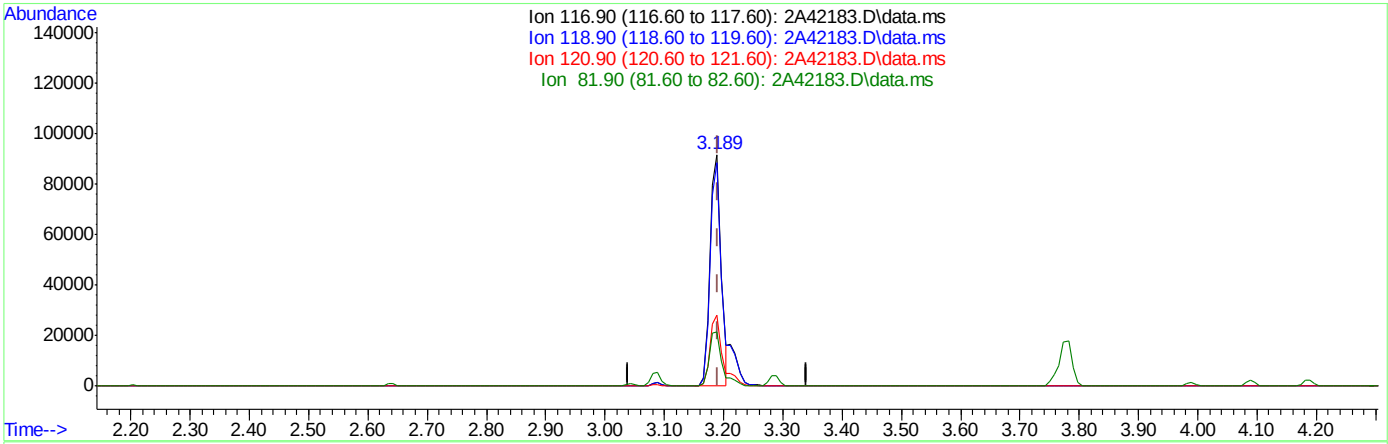
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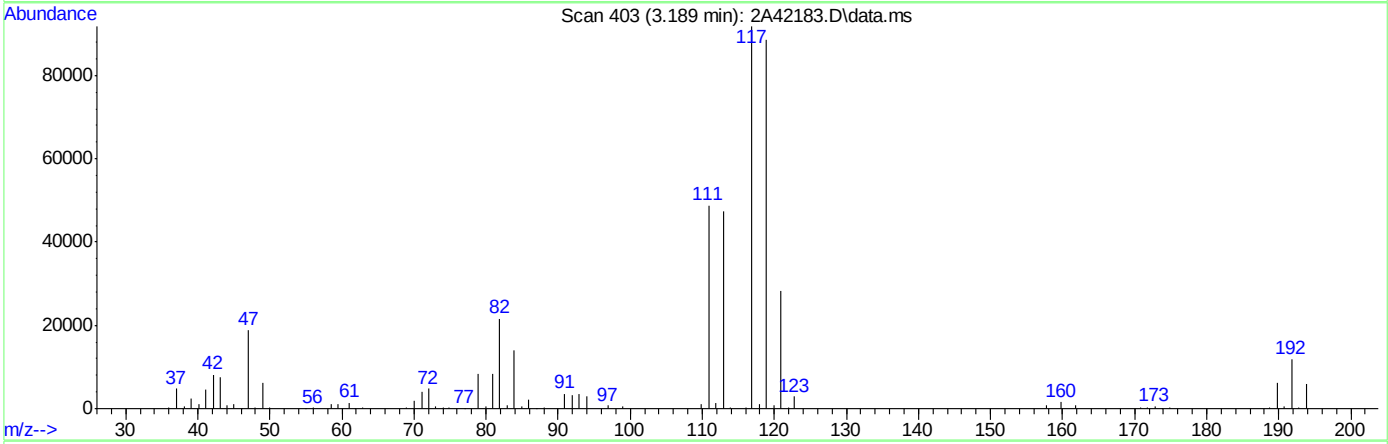
Ion	Exp%	Act%
116.90	100	100
118.90	93.10	96.43
120.90	31.00	30.87
81.90	24.60	23.59

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42183.D
Acq On : 16 Dec 2022 1:06 pm
Operator : joannel
Sample : IC1677-6
Misc : MS53004,V2A1677,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 16 14:17:08 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42183.D\data.ms

(40) Carbon Tetrachloride ( )

3.189min (-0.002) 66.15ug/L m

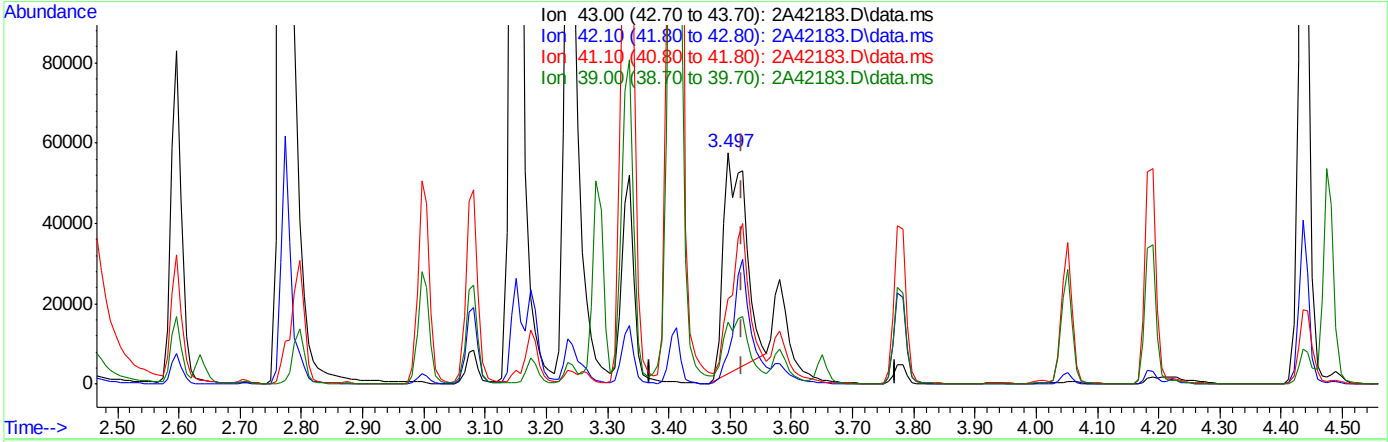
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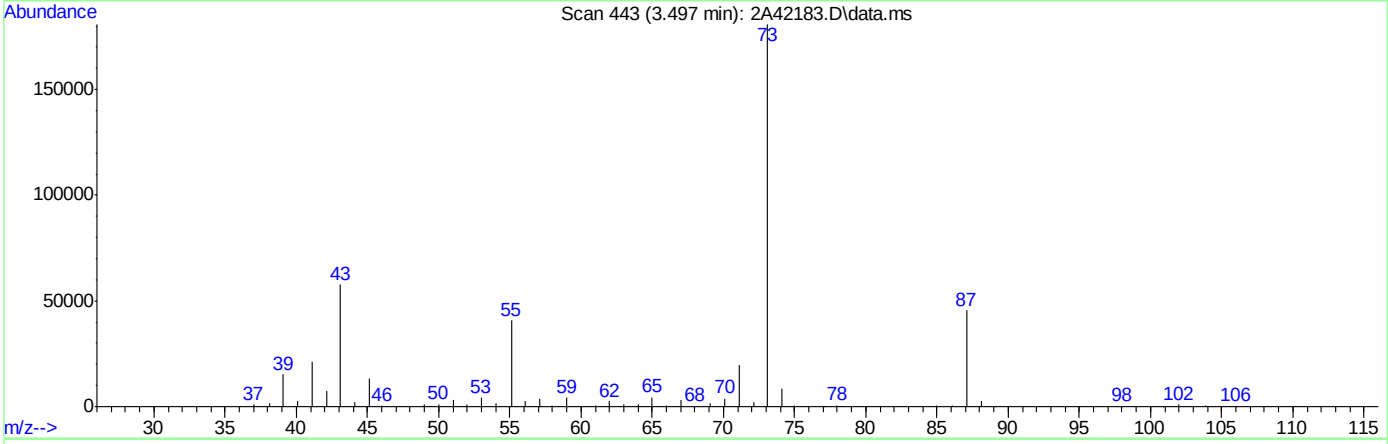
Ion	Exp%	Act%
116.90	100	100
118.90	93.10	96.43
120.90	31.00	30.87
81.90	24.60	23.59

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42183.D
Acq On : 16 Dec 2022 1:06 pm
Operator : joannel
Sample : IC1677-6
Misc : MS53004,V2A1677,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 16 14:17:08 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42183.D\data.ms

(51) Isobutyl Alcohol

3.497min (-0.023) 938.00ug/L

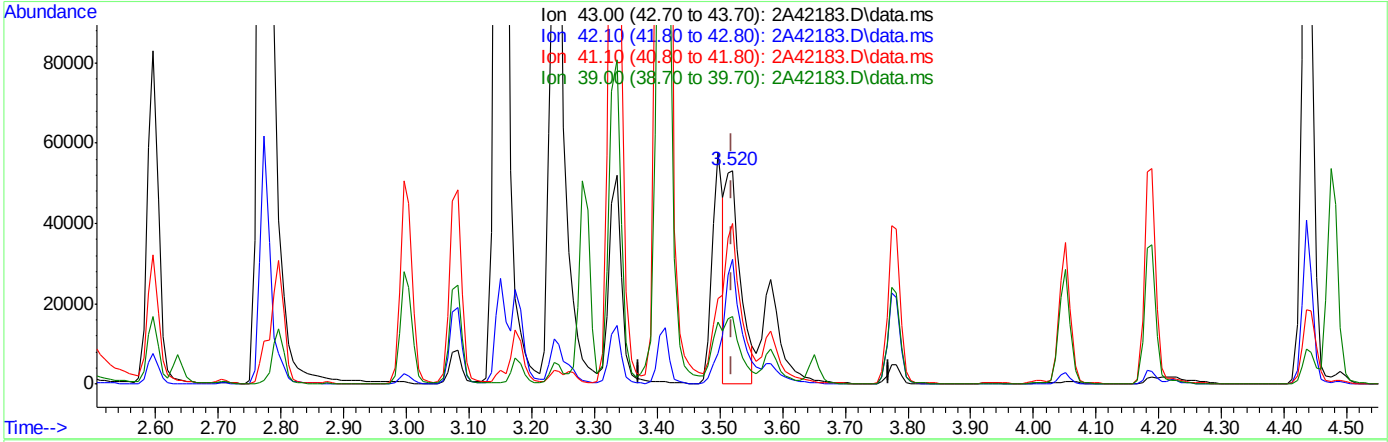
response 138701

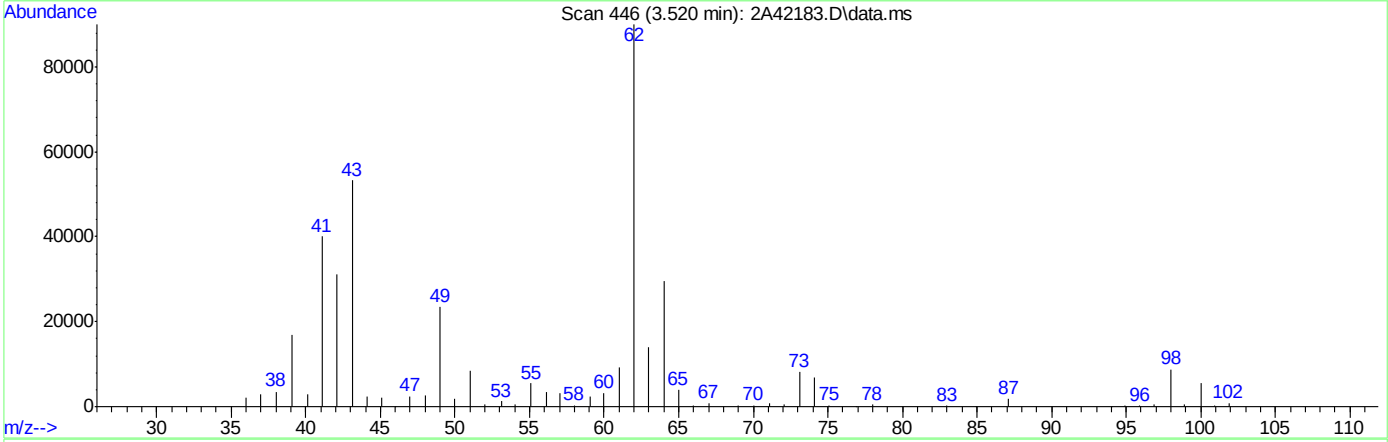
Ion	Exp%	Act%
43.00	100	100
42.10	57.60	12.93
41.10	77.70	32.15
39.00	33.60	23.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42183.D
Acq On : 16 Dec 2022 1:06 pm
Operator : joannel
Sample : IC1677-6
Misc : MS53004,V2A1677,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 16 14:17:08 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42183.D\data.ms

(51) Isobutyl Alcohol

3.520min (-0.000) 507.79ug/L m

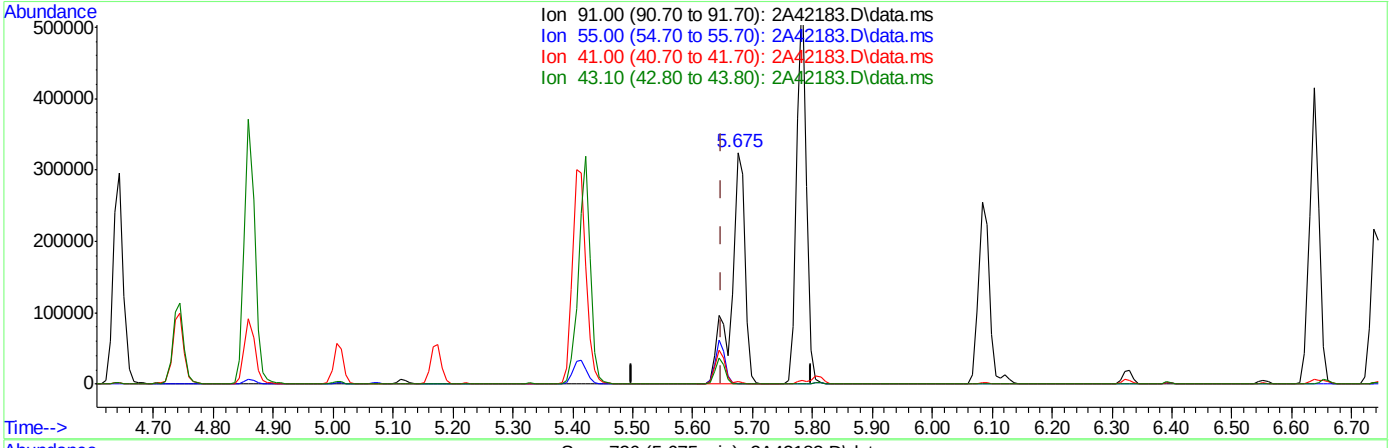
response 84648

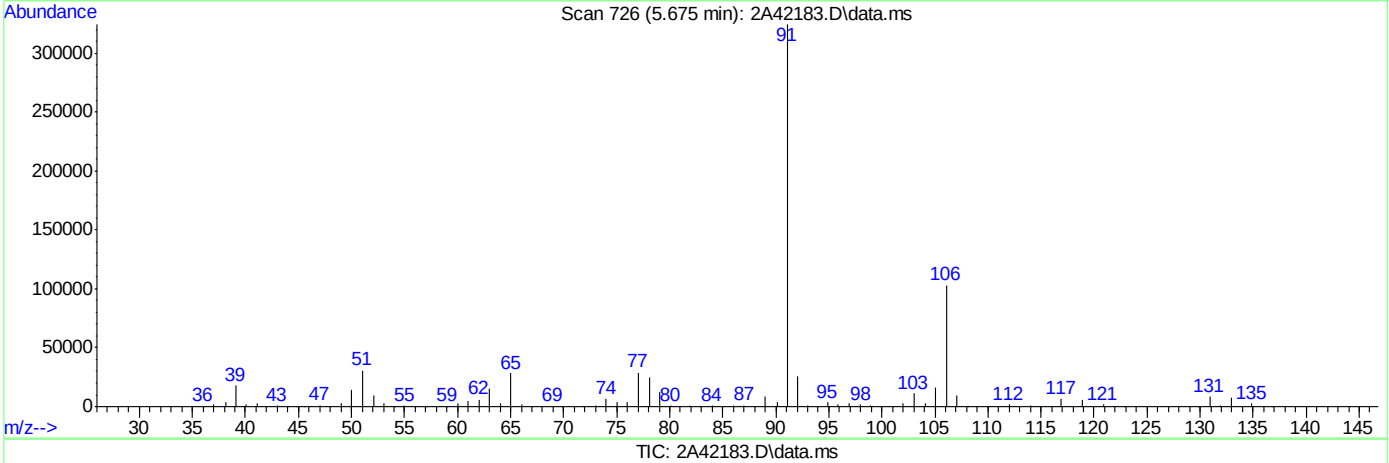
Ion	Exp%	Act%
43.00	100	100
42.10	57.60	58.35
41.10	77.70	75.28
39.00	33.60	31.72

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42183.D
Acq On : 16 Dec 2022 1:06 pm
Operator : joannel
Sample : IC1677-6
Misc : MS53004,V2A1677,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 16 14:17:08 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42183.D\data.ms

(76) 1-Chlorohexane

5.675min (+0.026) 275.48ug/L

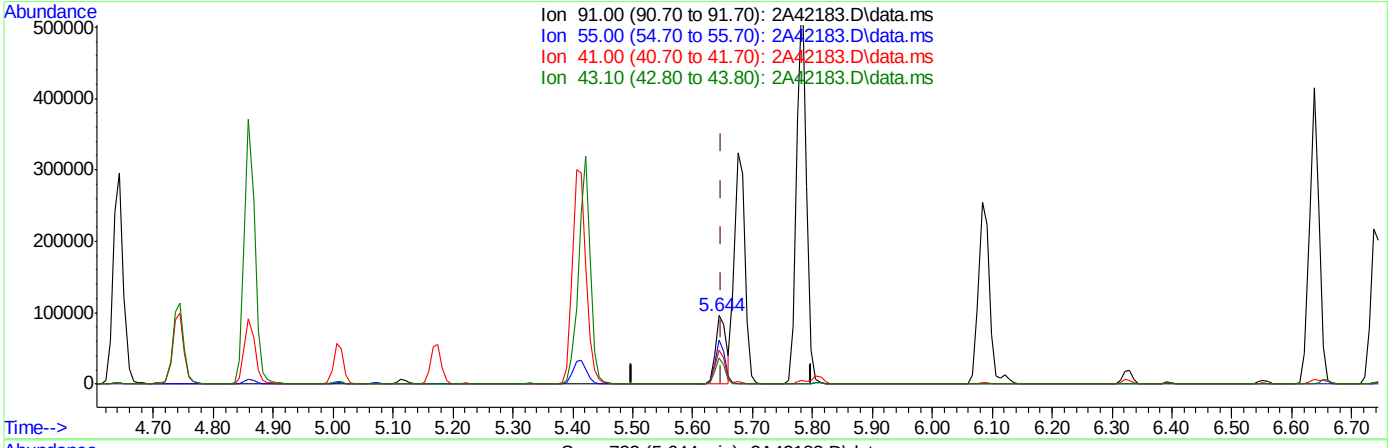
response 512829

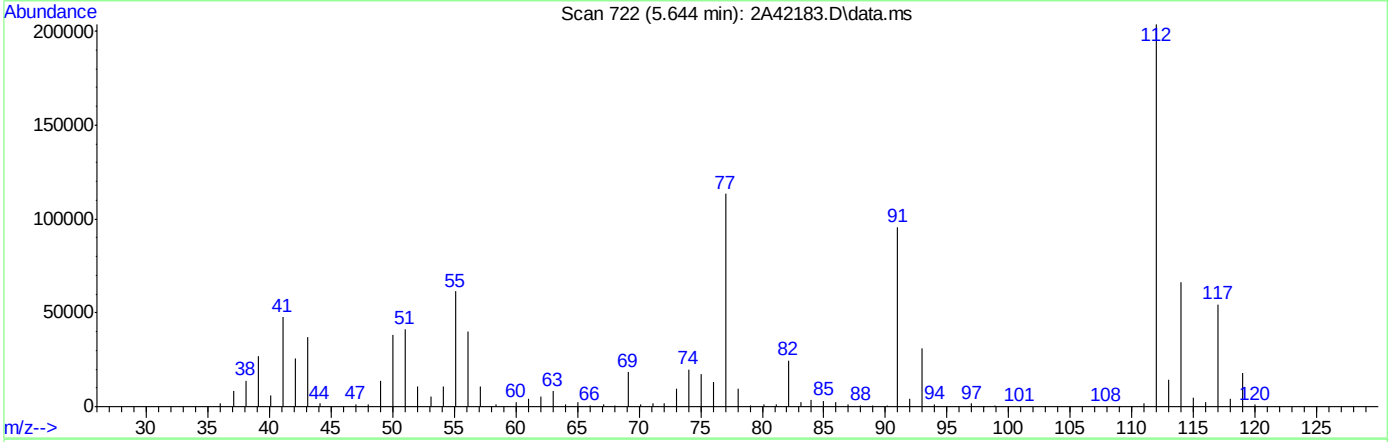
Ion	Exp%	Act%
91.00	100	100
55.00	67.70	0.20#
41.00	60.00	0.88#
43.10	48.60	0.13#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42183.D
Acq On : 16 Dec 2022 1:06 pm
Operator : joannel
Sample : IC1677-6
Misc : MS53004,V2A1677,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 16 14:17:08 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42183.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.005) 65.19ug/L m

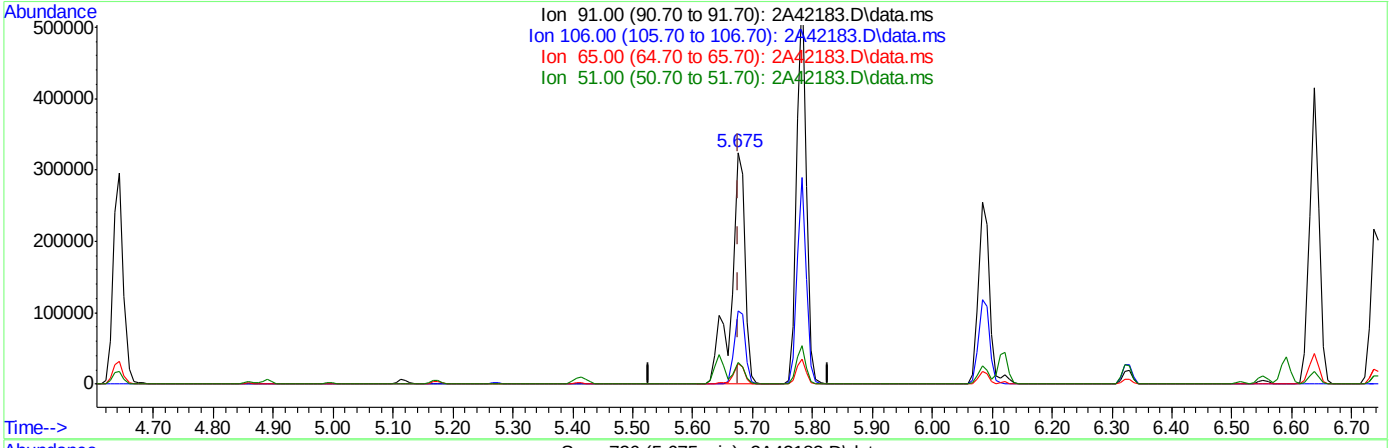
response 121349

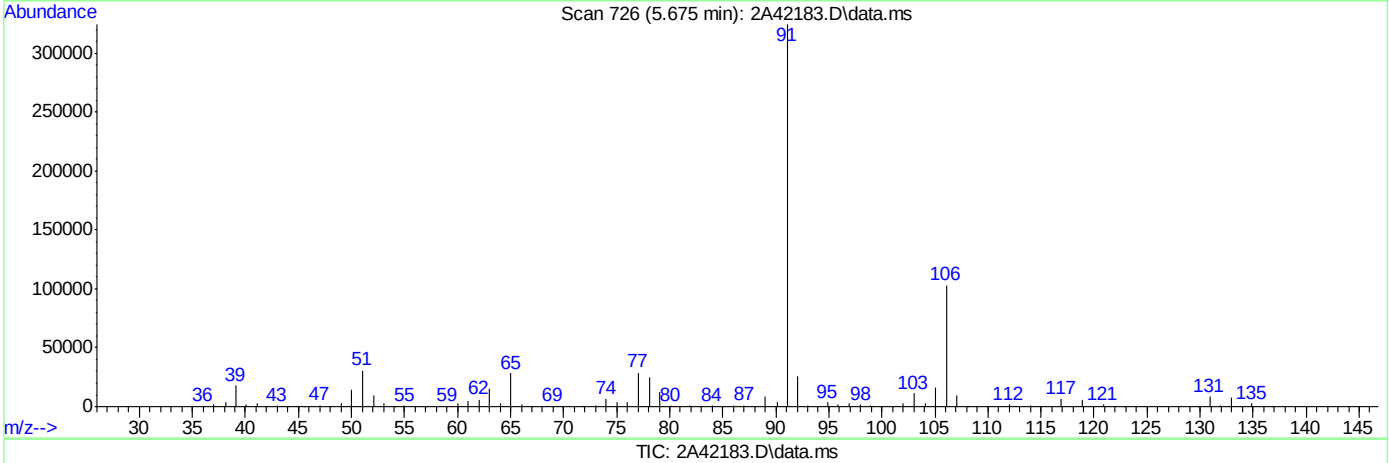
Ion	Exp%	Act%
91.00	100	100
55.00	67.70	64.12
41.00	60.00	49.80
43.10	48.60	38.42

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42183.D
Acq On : 16 Dec 2022 1:06 pm
Operator : joannel
Sample : IC1677-6
Misc : MS53004,V2A1677,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 16 14:17:08 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42183.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.002) 86.16ug/L

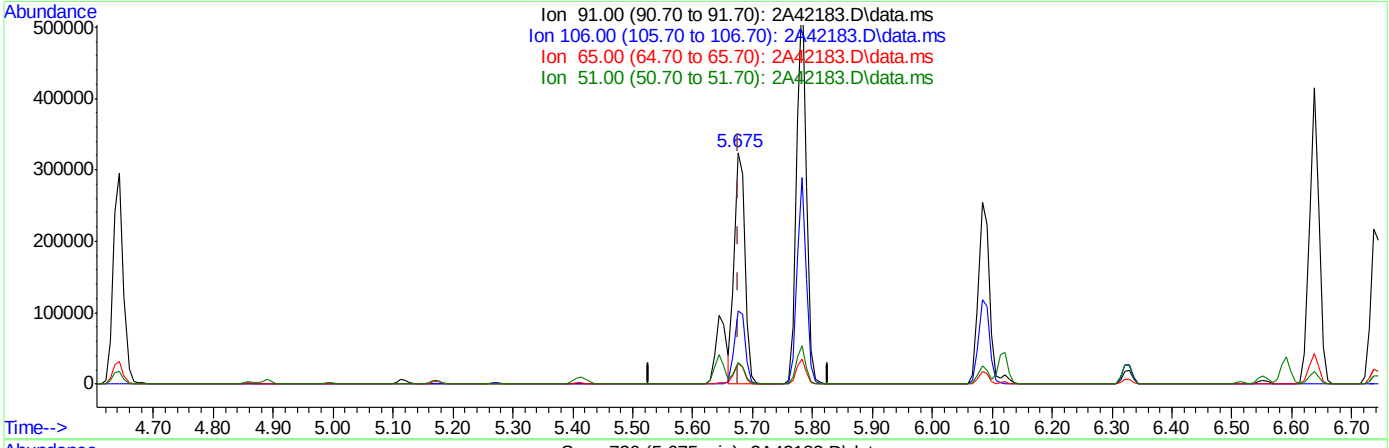
response 512829

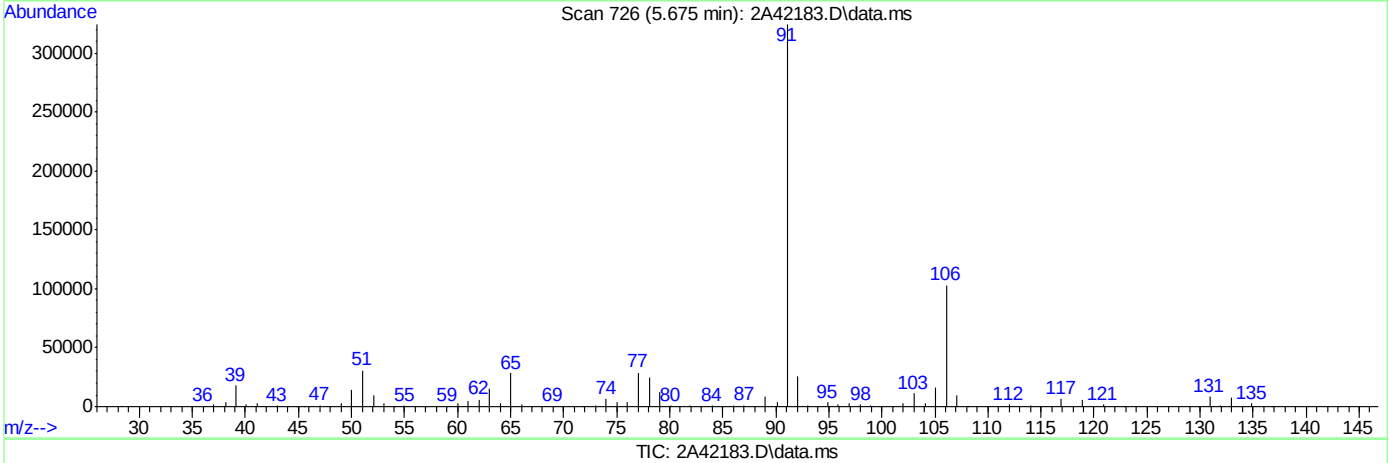
Ion	Exp%	Act%
91.00	100	100
106.00	31.90	31.74
65.00	8.70	8.73
51.00	11.10	9.53

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42183.D
Acq On : 16 Dec 2022 1:06 pm
Operator : joannel
Sample : IC1677-6
Misc : MS53004,V2A1677,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 16 14:17:08 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42183.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.002) 65.77ug/L m

response 391482

Ion	Exp%	Act%
91.00	100	100
106.00	31.90	31.74
65.00	8.70	8.73
51.00	11.10	9.53

2A42185.D

Manual Integrations APPROVED (compounds with "m" flag)

Neil Christiana 12/20/22 07:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 15:12:12 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.651	96	230858	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.636	117	179627	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	95031	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.189	113	66509	53.08	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.16%				
49) 1,2-Dichloroethane-d4	3.481	65	77565	54.06	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.12%				
63) Toluene-d8	4.613	98	227119	56.34	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 112.68%#				
86) 4-Bromofluorobenzene	6.514	174	81246	57.25	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 114.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.042	85	145267	185.73	ug/L		98
3) Chloromethane	1.180	50	110215	94.84	ug/L		97
4) 1,3-butadiene	1.234	39	75599	70.11	ug/L		88
5) Vinyl Chloride	1.219	62	121254	136.90	ug/L		94
6) Bromomethane	1.419	94	77643	101.79	ug/L		100
7) Chloroethane	1.488	64	39178m	37.84	ug/L		
8) Trichlorofluoromethane	1.588	101	159012	60.13	ug/L		98
9) Ethyl Ether	1.780	59	84779	69.66	ug/L		86
10) Ethanol	1.896	45	25557m	999.20	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.881	67	138015	108.42	ug/L		99
12) 1,1-Dichloroethene	1.888	61	166903	109.25	ug/L		93
13) Freon 113	1.919	101	128237	97.54	ug/L		94
14) Carbon Disulfide	1.904	76	310282	97.00	ug/L		83
15) Iodomethane	1.965	142	187829	139.89	ug/L		89
16) Acrolein	2.058	56	122602	385.25	ug/L		100
17) Allyl chloride	2.150	41	126882	93.83	ug/L		94
18) Methylene Chloride	2.204	49	128378	77.06	ug/L		81
19) Acetone	2.219	43	178948	355.17	ug/L		95
20) Methyl acetate	2.304	43	443290	267.03	ug/L		89
21) trans-1,2-Dichloroethene	2.304	61	162052	89.20	ug/L		93
22) Hexane	2.373	56	97255	81.67	ug/L	#	87
23) Methyl Tert Butyl Ether	2.381	73	347277	108.94	ug/L	#	67
24) Acetonitrile	2.373	41	179053m	761.62	ug/L		
25) Tert Butyl Alcohol	2.412	59	229795	768.28	ug/L		86
26) Di-isopropyl ether	2.596	45	299191	65.92	ug/L		93
27) Chloroprene	2.635	53	377082	93.59	ug/L	#	83
28) 1,1-Dichloroethane	2.642	63	203193	87.93	ug/L		98
29) Acrylonitrile	2.642	52	227896	339.44	ug/L	#	76
30) ETBE	2.796	59	339494	80.35	ug/L		94
31) Vinyl acetate	2.773	43	1005574	330.51	ug/L		98
32) cis-1,2-Dichloroethene	2.935	96	131081	95.61	ug/L		94
33) 2,2-Dichloropropane	3.004	77	192647	106.93	ug/L		98
34) Bromochloromethane	3.043	128	66159	107.30	ug/L		93
35) Cyclohexane	3.081	56	182747	80.70	ug/L	#	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 15:12:12 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.089	83	229502	97.48	ug/L		96
37) Ethyl acetate	3.150	43	606474	284.21	ug/L		94
38) Tetrahydrofuran	3.181	42	39925	52.86	ug/L	#	83
40) Carbon Tetrachloride	3.189	117	180473m	99.38	ug/L		
41) 1,1,1-Trichloroethane	3.220	97	203296	103.73	ug/L		95
42) 2-Butanone	3.243	43	315962	263.49	ug/L		80
43) 1,1-Dichloropropene	3.289	75	171993	105.07	ug/L		84
44) tert-Butyl formate	3.335	59	537041	550.34	ug/L		90
45) Propionitrile	3.389	54	187939	558.23	ug/L		98
46) Methacrylonitrile	3.412	41	721179	501.80	ug/L		96
47) Benzene	3.420	78	482530	90.28	ug/L		88
48) TAME	3.497	73	334930	95.94	ug/L		86
50) 1,2-Dichloroethane	3.520	62	164794	82.91	ug/L		92
51) Isobutyl Alcohol	3.520	43	87681m	529.55	ug/L		
52) Tert Amyl Alcohol	3.581	59	169758	526.30	ug/L		85
53) Trichloroethene	3.758	95	139919	95.37	ug/L		96
54) Methylcyclohexane	3.782	83	218667	101.77	ug/L	#	84
55) Dibromomethane	3.989	93	85070	89.27	ug/L		93
56) 1,2-Dichloropropane	4.051	63	118257	83.85	ug/L		88
57) Bromodichloromethane	4.089	83	166088	98.49	ug/L		95
58) Methyl methacrylate	4.189	41	103258	60.91	ug/L	#	82
59) 1,4-Dioxane	4.213	88	31692	1607.48	ug/L		88
60) 2-Chloroethyl vinyl ether	4.436	63	438303	416.69	ug/L		87
61) cis-1,3-Dichloropropene	4.482	75	198551	100.95	ug/L		82
64) Toluene	4.644	91	523588	102.17	ug/L		99
65) 2-Nitropropane	4.744	41	191743	341.73	ug/L		96
66) 4-Methyl-2-pentanone	4.859	43	647944	293.07	ug/L		93
67) trans-1,3-Dichloropropene	4.890	75	177258	104.99	ug/L		86
68) Tetrachloroethene	4.905	166	162986	115.64	ug/L		94
69) Ethyl methacrylate	5.013	69	158285	90.45	ug/L	#	76
70) 1,1,2-Trichloroethane	4.990	83	97912	99.71	ug/L		93
71) Dibromochloromethane	5.121	129	144093	105.93	ug/L		96
72) 1,3-Dichloropropane	5.175	76	192967	99.87	ug/L		82
73) 1,2-Dibromoethane	5.275	107	132683	101.85	ug/L		98
74) 3,3-Dimethyl-1-Butanol	5.413	57	977164	2576.89	ug/L		87
75) 2-hexanone	5.421	43	627122	248.85	ug/L		94
76) 1-Chlorohexane	5.652	91	174842m	93.03	ug/L		
77) Ethylbenzene	5.683	91	586003m	97.51	ug/L		
78) Chlorobenzene	5.644	112	347389	96.21	ug/L		95
79) 1,1,1,2-Tetrachloroethane	5.690	131	134038	97.93	ug/L		94
80) m,p-Xylene	5.783	91	940866	198.17	ug/L		98
81) o-Xylene	6.090	91	480003	104.12	ug/L		99
82) Styrene	6.121	104	380902	103.85	ug/L		96
83) Bromoform	6.121	173	104905	95.09	ug/L		98
84) Isopropylbenzene	6.329	105	579495	101.53	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.552	53	53031	69.63	ug/L	#	69
88) n-Propylbenzene	6.637	91	682103	95.63	ug/L		98
89) Bromobenzene	6.591	156	158432	101.65	ug/L		95
90) 1,1,2,2-Tetrachloroethane	6.660	83	164892	84.83	ug/L		99
91) 1,3,5-Trimethylbenzene	6.791	105	497988	94.68	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 15:12:12 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration

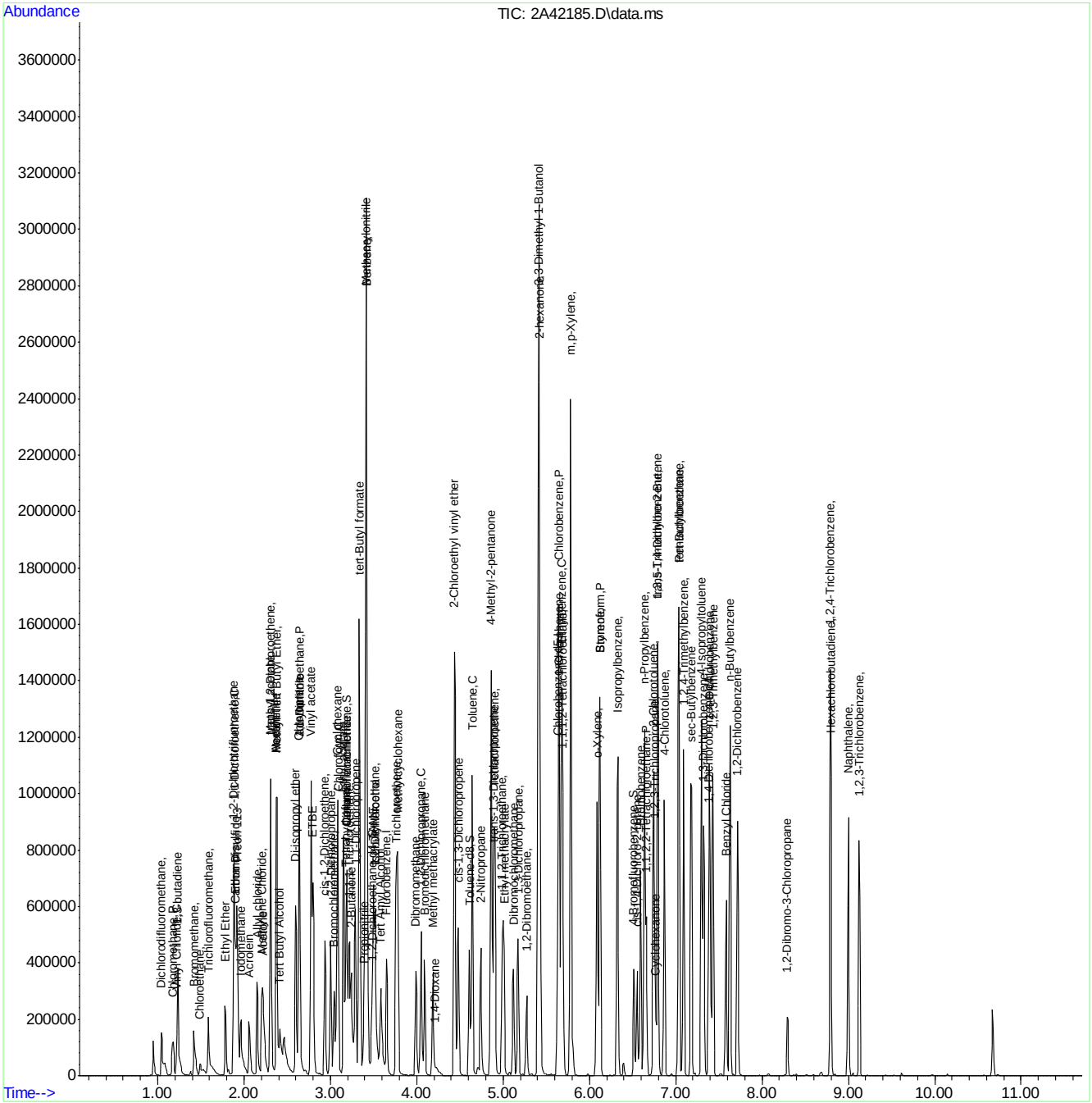
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.745	91	393128	98.20	ug/L		97
93)	trans-1,4-Dichloro-2-B...	6.791	53	56026	66.15	ug/L	#	63
94)	1,2,3-Trichloropropane	6.752	110	51678	83.91	ug/L		91
95)	Cyclohexanone	6.768	55	27563	242.73	ug/L		91
96)	4-Chlorotoluene	6.868	91	407791	95.65	ug/L		94
97)	tert-Butylbenzene	7.037	91	275356	95.56	ug/L		92
98)	1,2,4-Trimethylbenzene	7.091	105	472465	93.23	ug/L		99
99)	Pentachloroethane	7.037	167	86807	105.97	ug/L	#	84
100)	sec-Butylbenzene	7.183	105	594601	93.62	ug/L		99
101)	4-Isopropyltoluene	7.299	119	525192	94.78	ug/L		98
102)	1,3-Dichlorobenzene	7.322	146	283334	96.25	ug/L		99
103)	1,2,3-Trimethylbenzene	7.430	105	452152	92.14	ug/L		99
104)	1,4-Dichlorobenzene	7.391	146	285573	89.45	ug/L		99
105)	n-Butylbenzene	7.630	92	256349	92.86	ug/L		99
106)	Benzyl Chloride	7.584	126	70654	97.15	ug/L		98
107)	1,2-Dichlorobenzene	7.714	146	262635	95.86	ug/L		97
108)	1,2-Dibromo-3-Chloropr...	8.292	75	35830	83.09	ug/L	#	87
109)	Hexachlorobutadiene	8.800	225	106343m	146.05	ug/L		
110)	1,2,4-Trichlorobenzene	8.792	180	187176	117.87	ug/L		96
111)	Naphthalene	9.000	128	469405	87.46	ug/L		98
112)	1,2,3-Trichlorobenzene	9.123	180	176663	121.95	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 15:12:12 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration



Manual Integration Approval Summary

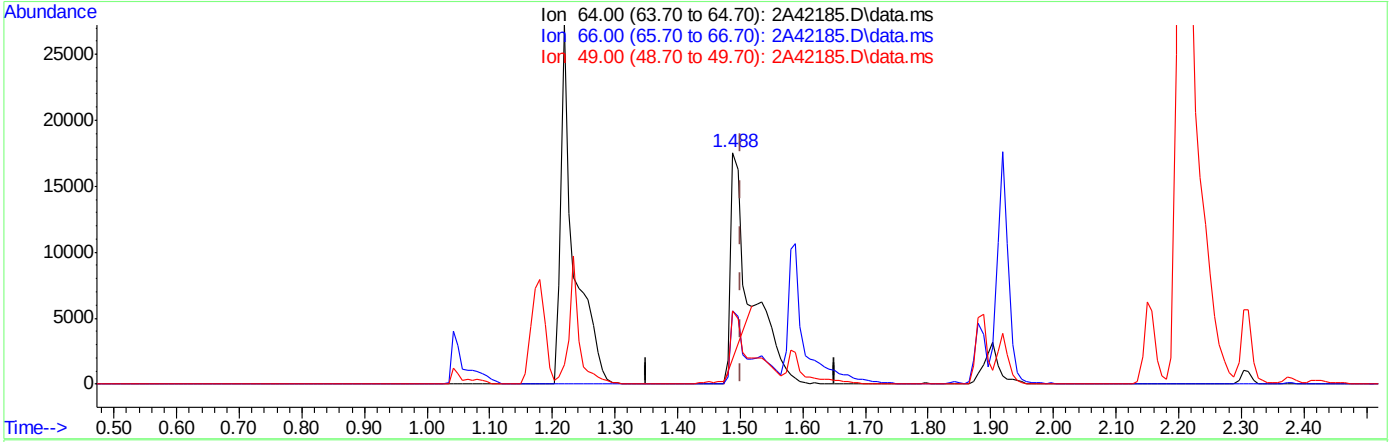
Sample Number: V2A1677-IC1677 **Method:** SW846 8260D
Lab FileID: 2A42185.D **Analyst approved:** 12/19/22 09:22 Jo-Ann Lugo De Jesus
Injection Time: 12/16/22 13:41 **Supervisor approved:** 12/20/22 07:54 Neil Christiana

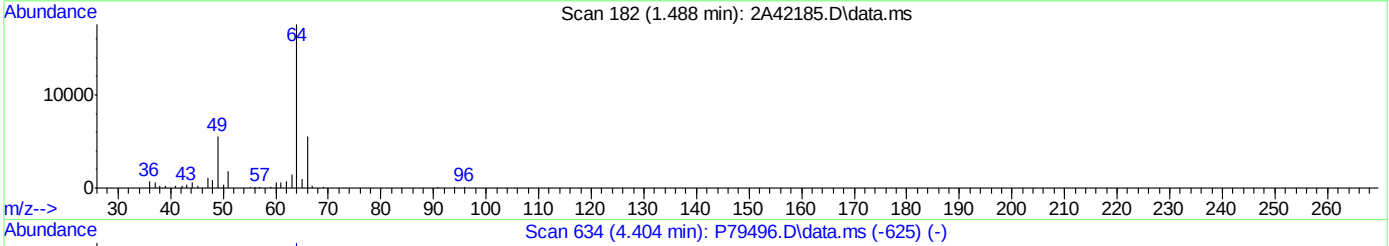
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chloroethane	75-00-3		1.49	Poor instrument integration
Ethyl Alcohol	64-17-5		1.90	Poor instrument integration
Acetonitrile	75-05-8		2.37	Overlapping peak
Carbon Tetrachloride	56-23-5		3.19	Overlapping peak
Isobutyl Alcohol	78-83-1		3.52	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration
Ethylbenzene	100-41-4		5.68	Poor instrument integration
Hexachlorobutadiene	87-68-3		8.80	Missed peak

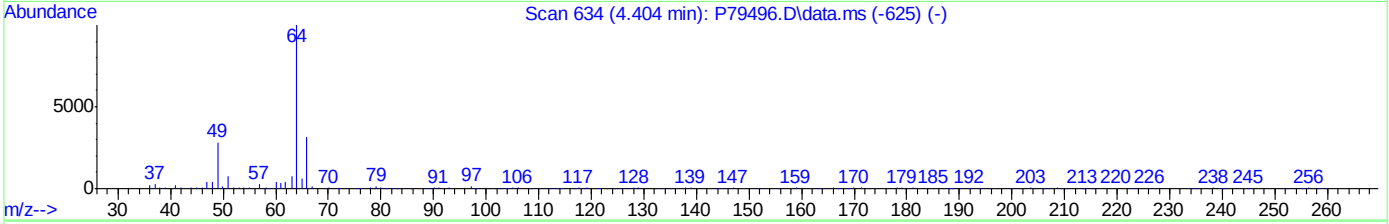
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 14:17:10 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42185.D\data.ms

(7) Chloroethane ( )

1.488min (-0.013) 15.44ug/L

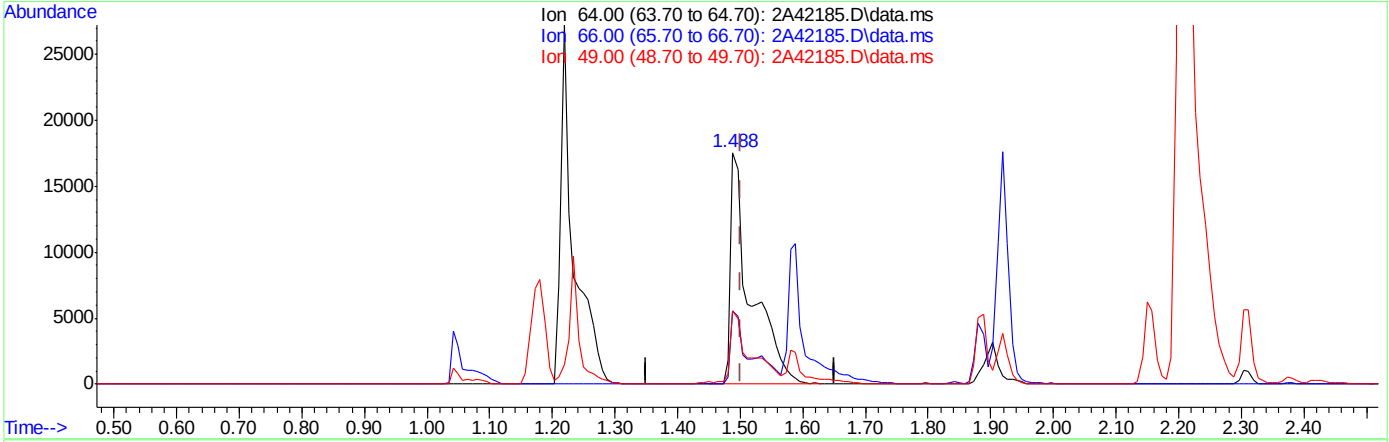
response 17315

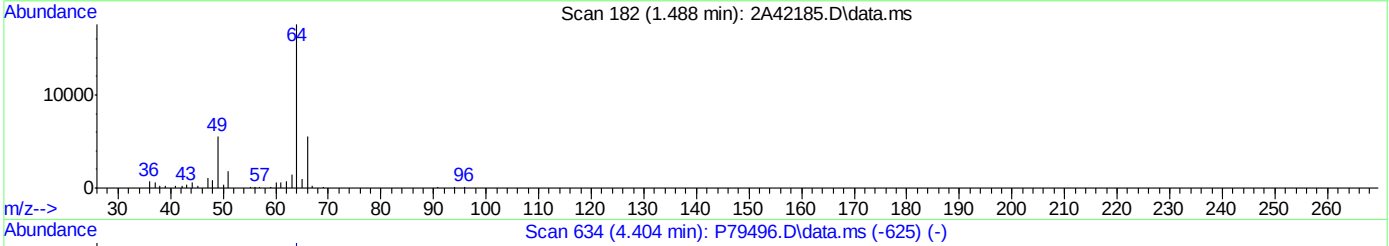
Ion	Exp%	Act%
64.00	100	100
66.00	26.60	31.61
49.00	36.80	30.71
0.00	0.00	0.00

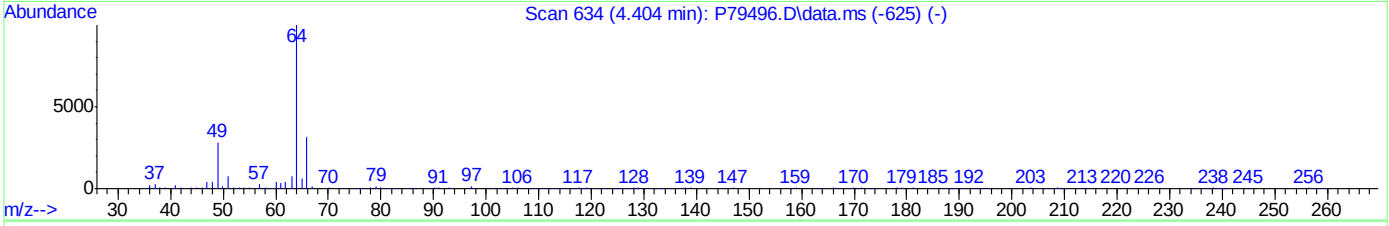
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 14:17:10 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42185.D\data.ms

(7) Chloroethane ( )

1.488min (-0.013) 37.84ug/L m

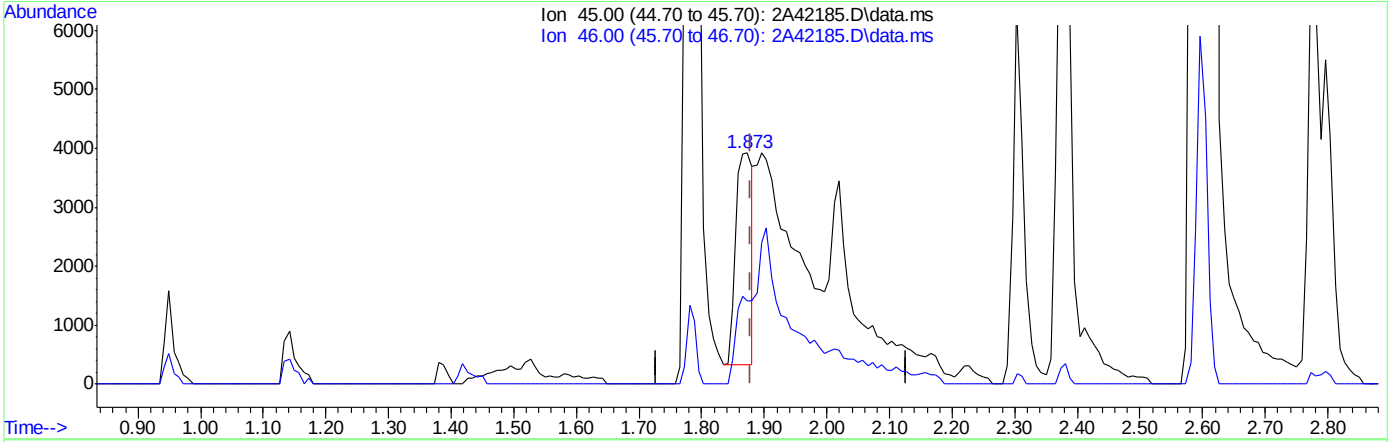
response 39178

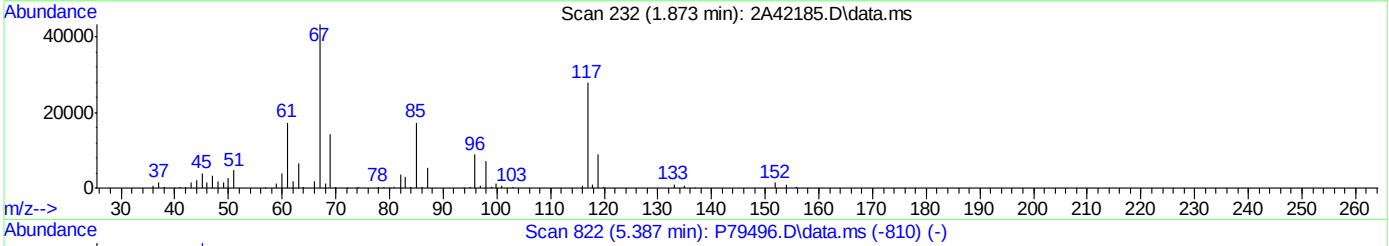
Ion	Exp%	Act%
64.00	100	100
66.00	26.60	31.61
49.00	36.80	31.79
0.00	0.00	0.00

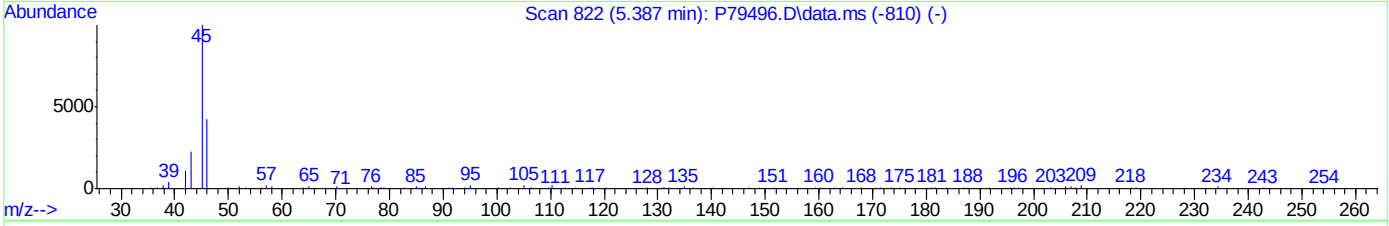
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 14:17:10 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42185.D\data.ms

(10) Ethanol

1.873min (-0.005) 265.86ug/L

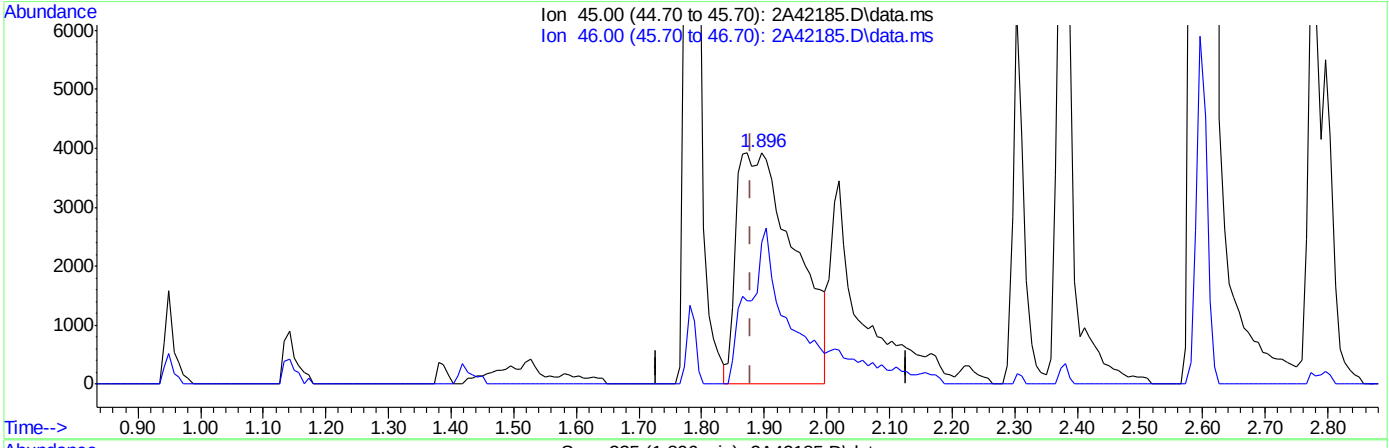
response 6800

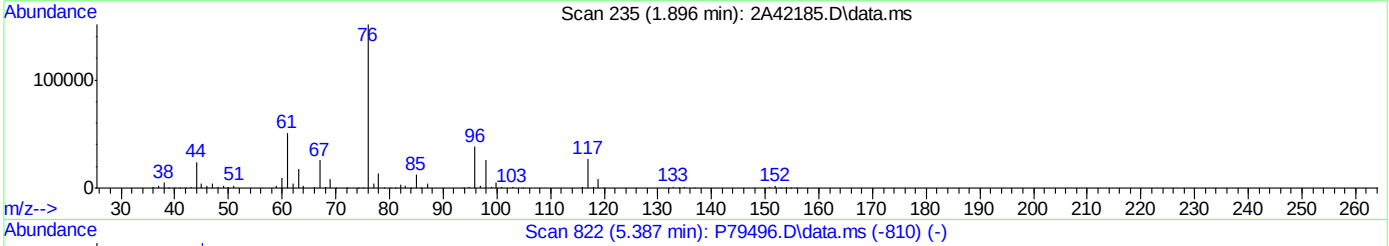
Ion	Exp%	Act%
45.00	100	100
46.00	31.20	39.53
0.00	0.00	0.00
0.00	0.00	0.00

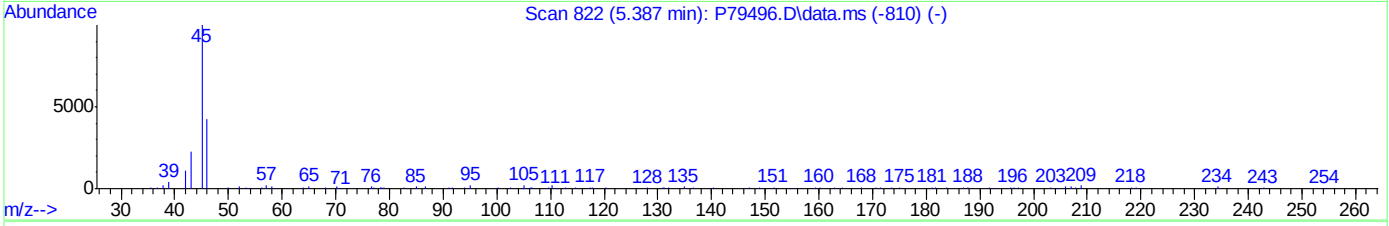
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 14:17:10 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42185.D\data.ms

(10) Ethanol

1.896min (+0.018) 999.20ug/L m

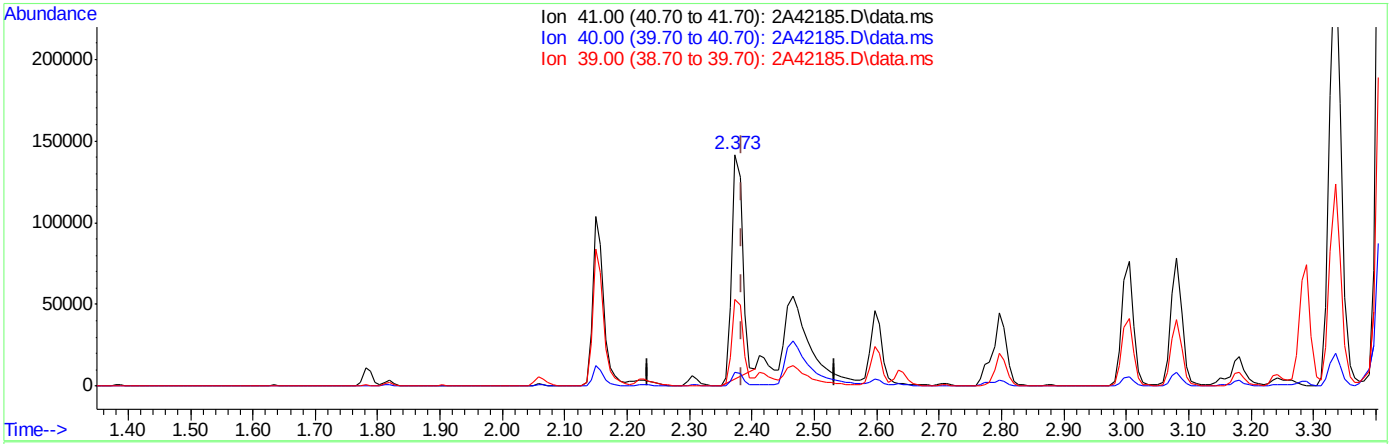
response 25557

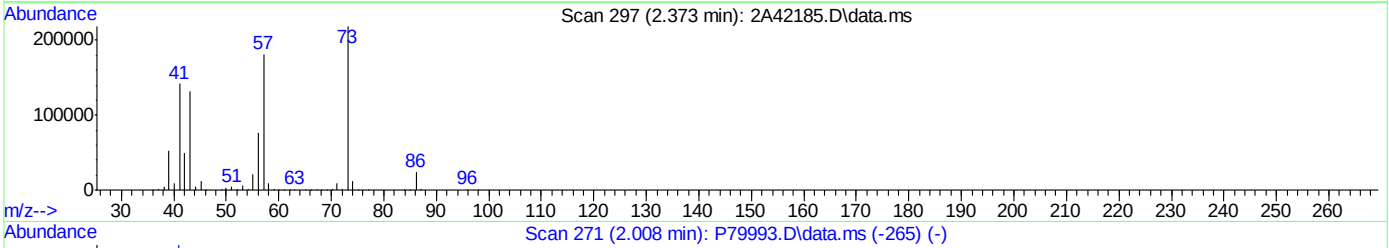
Ion	Exp%	Act%
45.00	100	100
46.00	31.20	60.96#
0.00	0.00	0.00
0.00	0.00	0.00

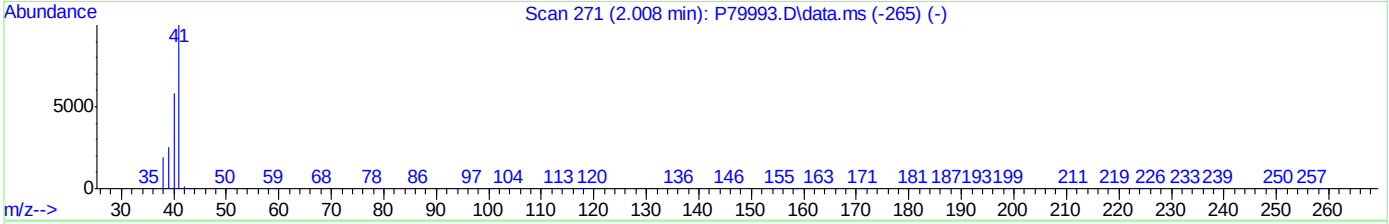
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 14:17:10 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42185.D\data.ms

(24) Acetonitrile

2.373min (-0.011) 679.09ug/L

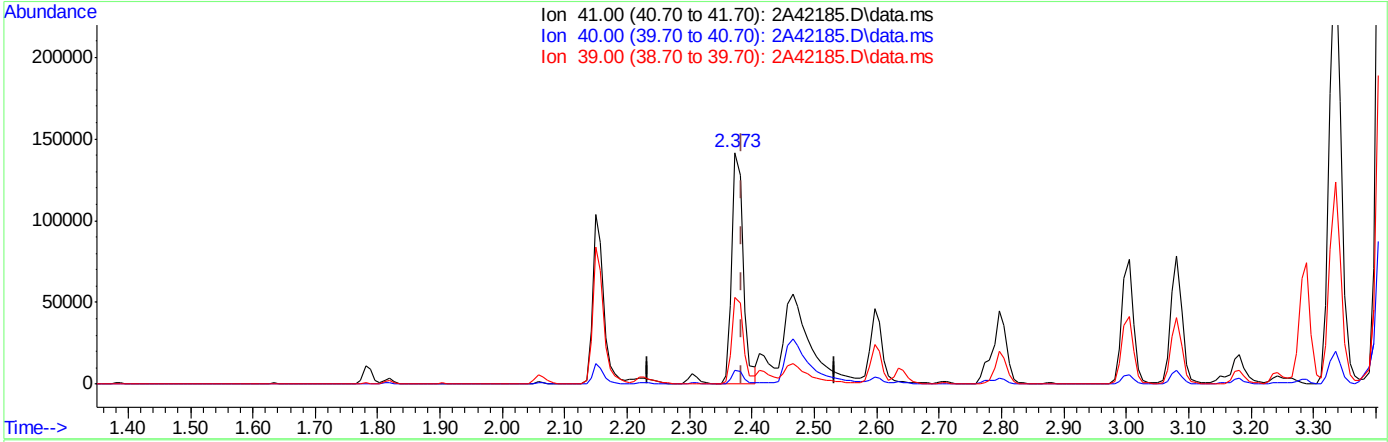
response 161666

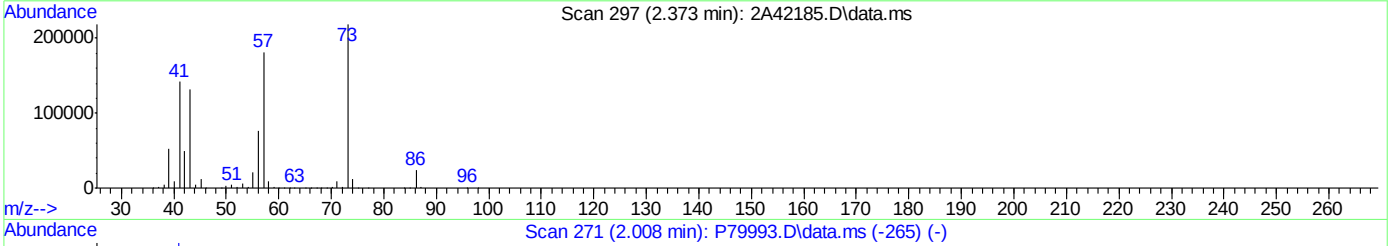
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.08
39.00	38.20	37.44
0.00	0.00	0.00

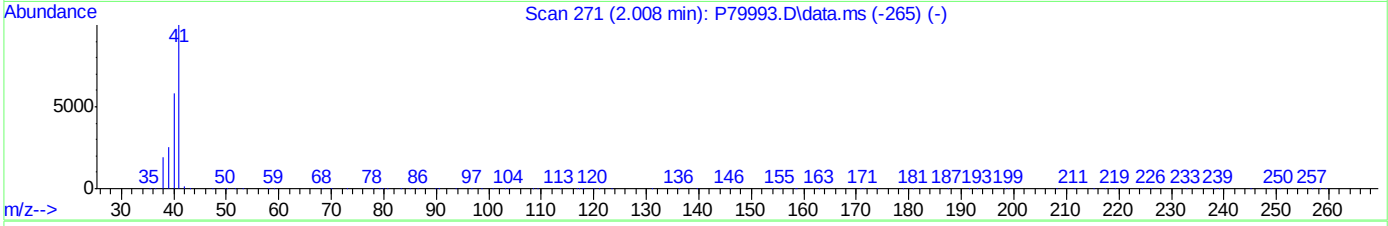
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 14:17:10 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42185.D\data.ms

(24) Acetonitrile

2.373min (-0.011) 761.62ug/L m

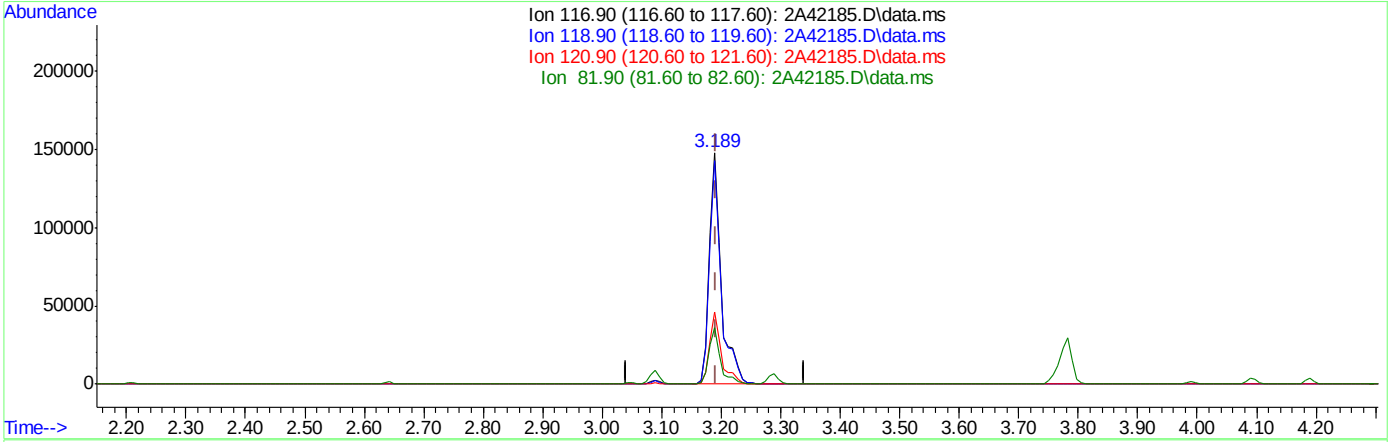
response 179053

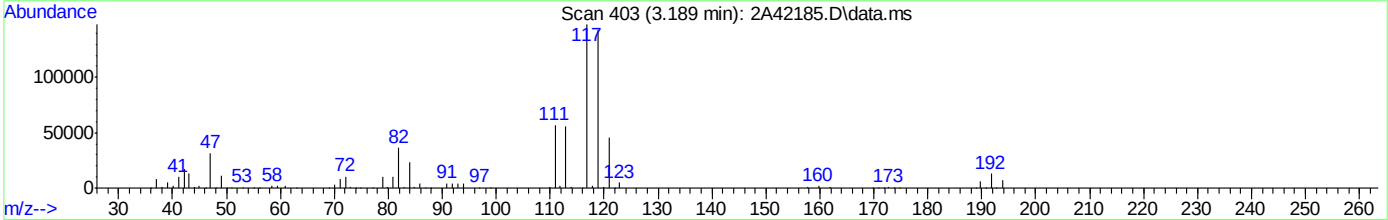
Ion	Exp%	Act%
41.00	100	100
40.00	6.90	6.16
39.00	38.20	37.49
0.00	0.00	0.00

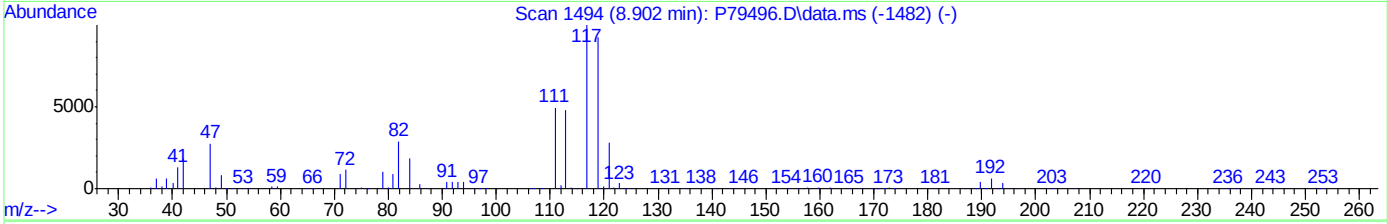
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 14:17:10 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42185.D\data.ms

(40) Carbon Tetrachloride ( )

3.189min (-0.002) 115.96ug/L

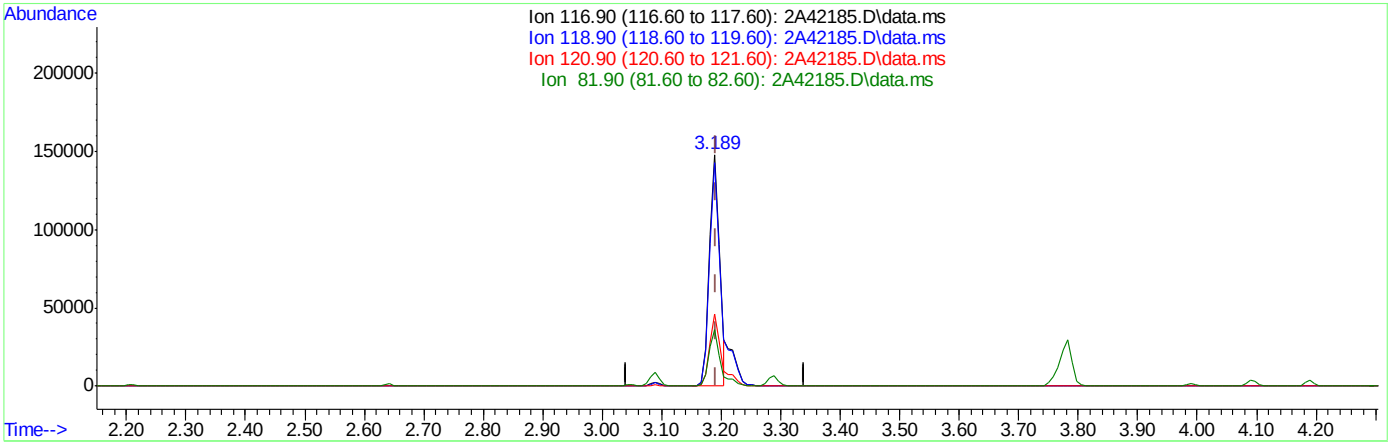
response 210599

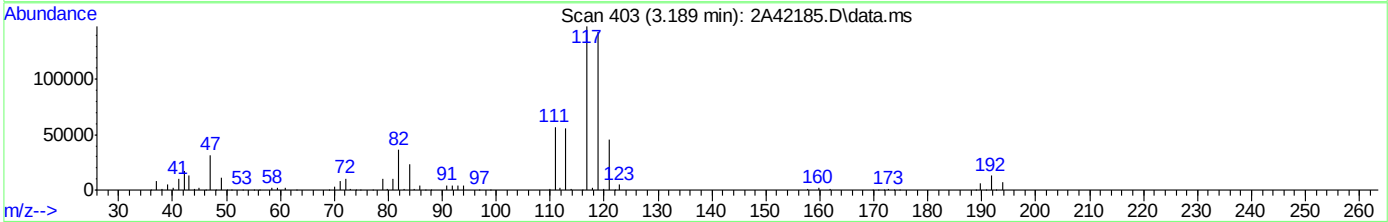
Ion	Exp%	Act%
116.90	100	100
118.90	93.10	96.50
120.90	31.00	31.03
81.90	24.60	24.38

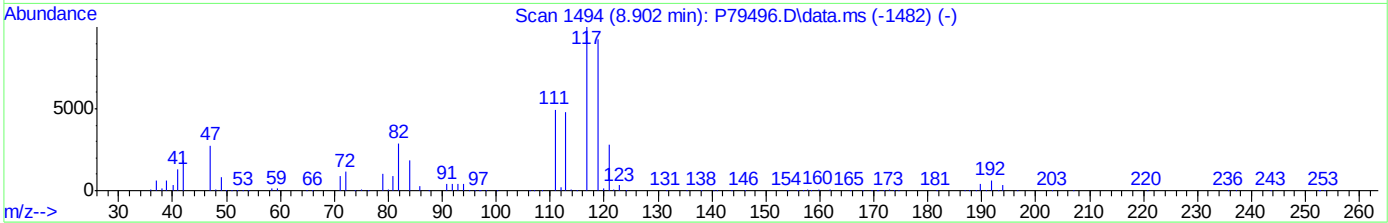
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 14:17:10 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42185.D\data.ms

(40) Carbon Tetrachloride ( )

3.189min (-0.002) 99.38ug/L m

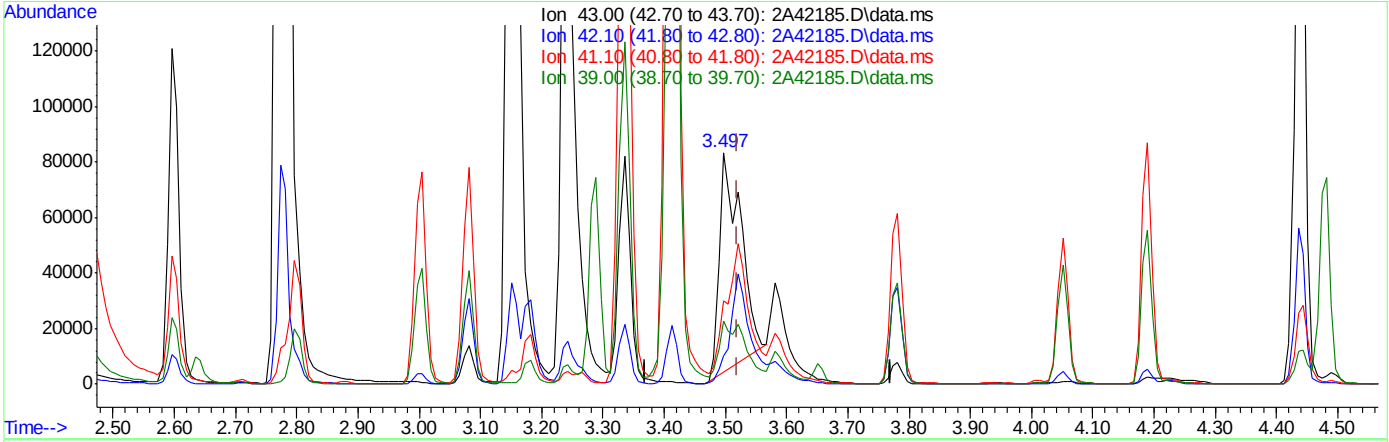
response 180473

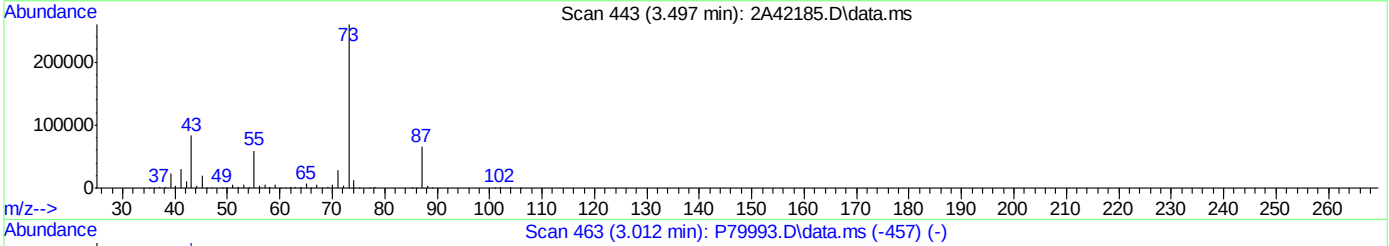
Ion	Exp%	Act%
116.90	100	100
118.90	93.10	96.50
120.90	31.00	31.03
81.90	24.60	24.38

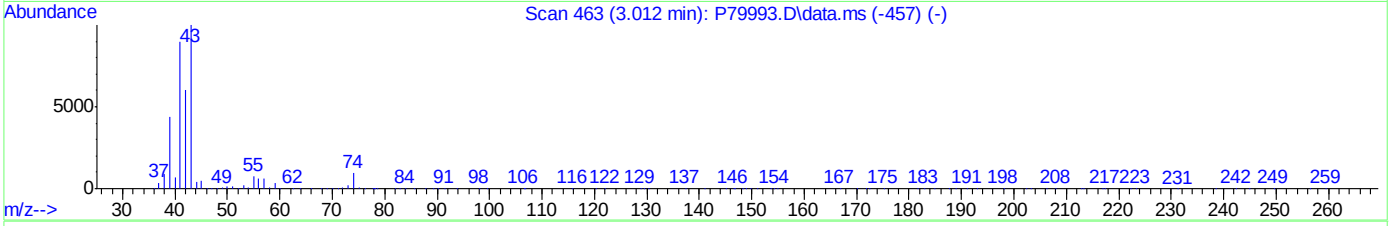
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 14:17:10 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42185.D\data.ms

(51) Isobutyl Alcohol

3.497min (-0.023) 1612.39ug/L

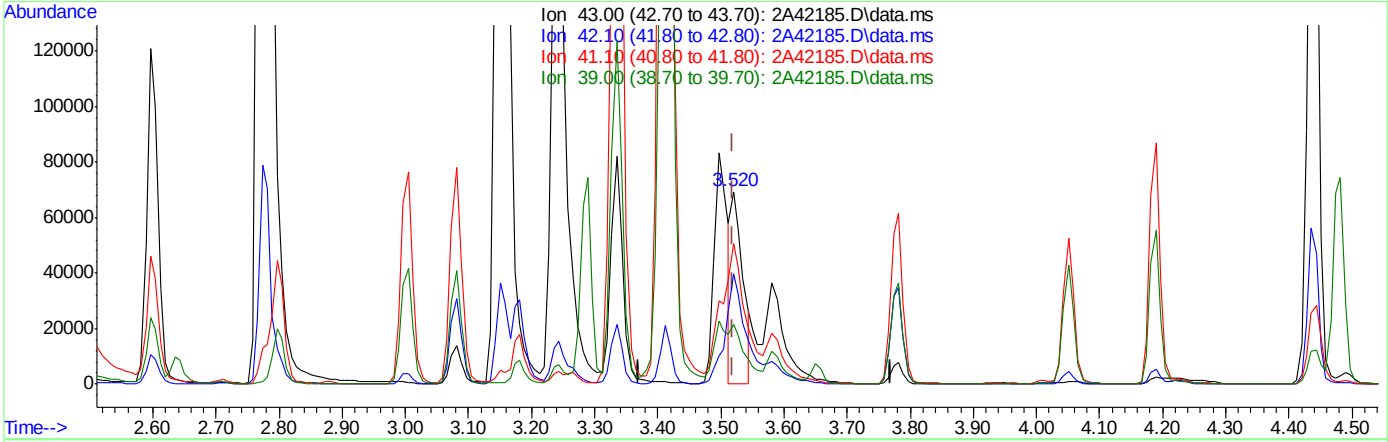
response 190636

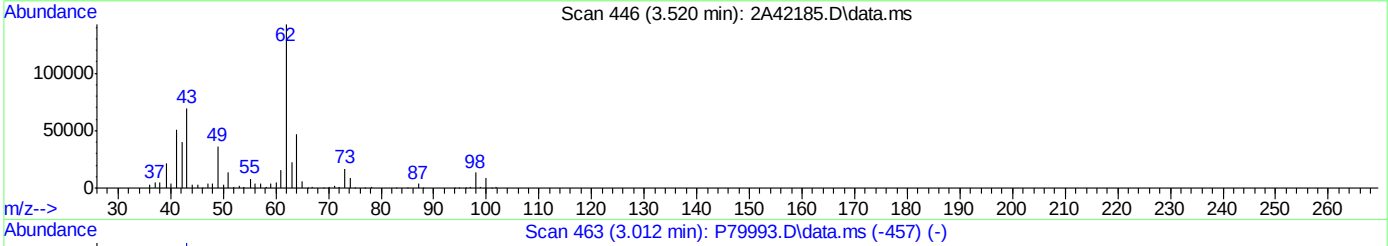
Ion	Exp%	Act%
43.00	100	100
42.10	57.60	12.15
41.10	77.70	31.93
39.00	33.60	24.25

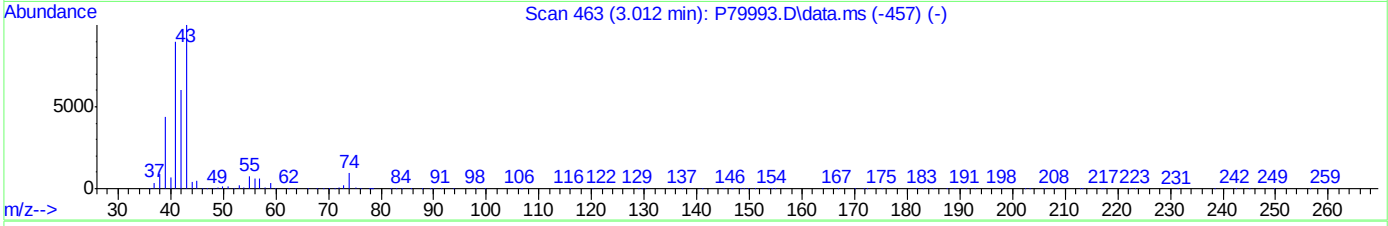
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 14:17:10 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42185.D\data.ms

(51) Isobutyl Alcohol

3.520min (-0.000) 529.55ug/L m

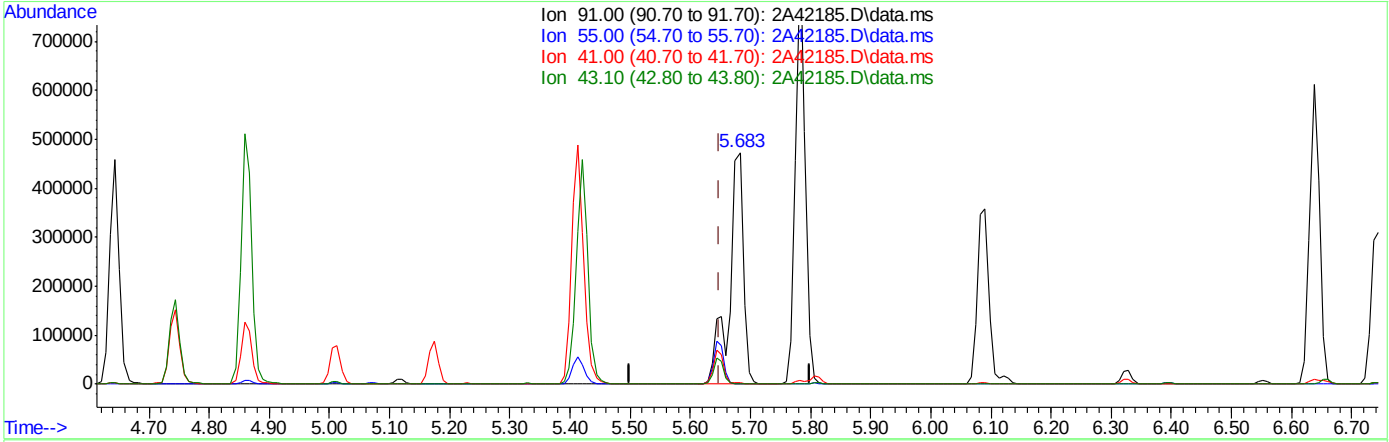
response 87681

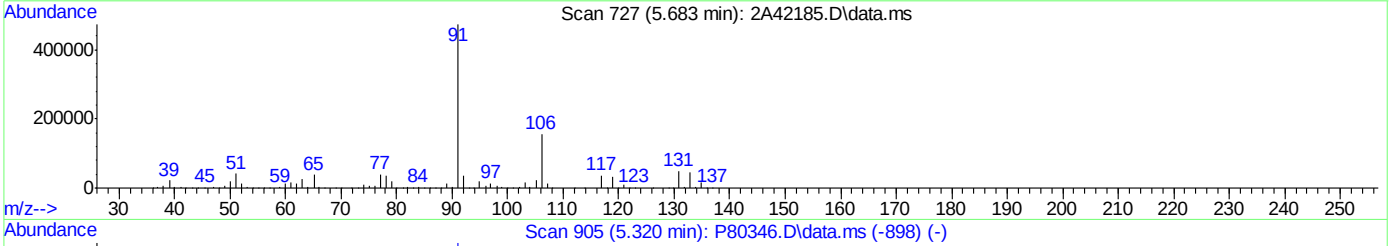
Ion	Exp%	Act%
43.00	100	100
42.10	57.60	57.24
41.10	77.70	73.18
39.00	33.60	30.92

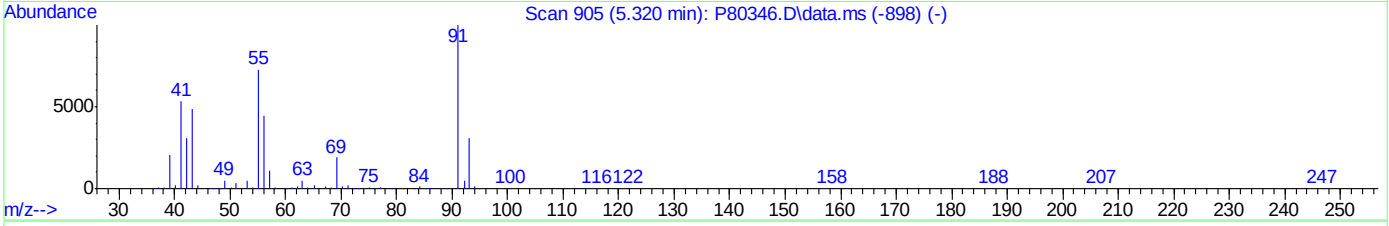
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 14:17:10 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42185.D\data.ms

(76) 1-Chlorohexane

5.683min (+0.034) 404.57ug/L

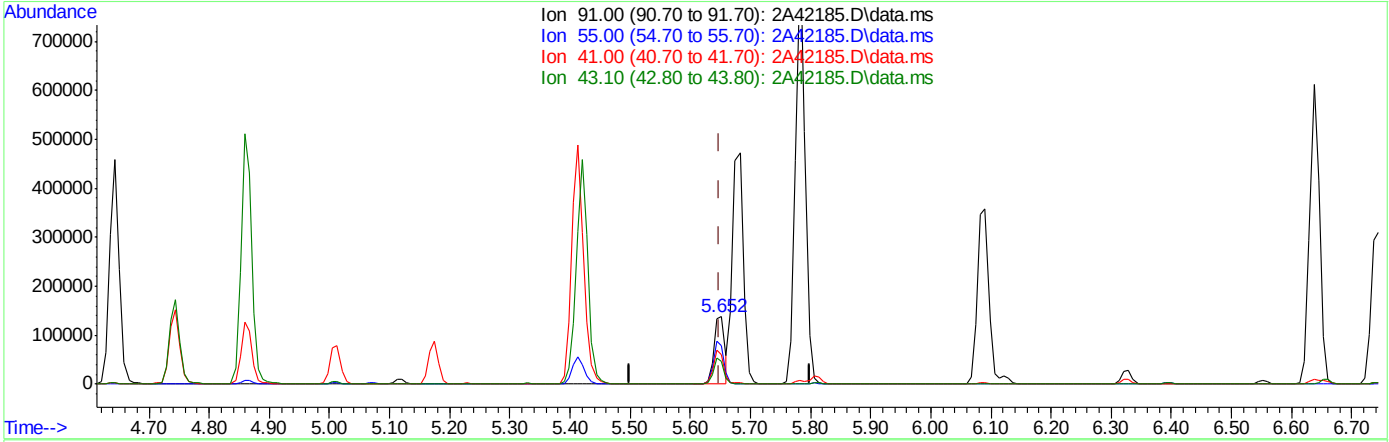
response 760380

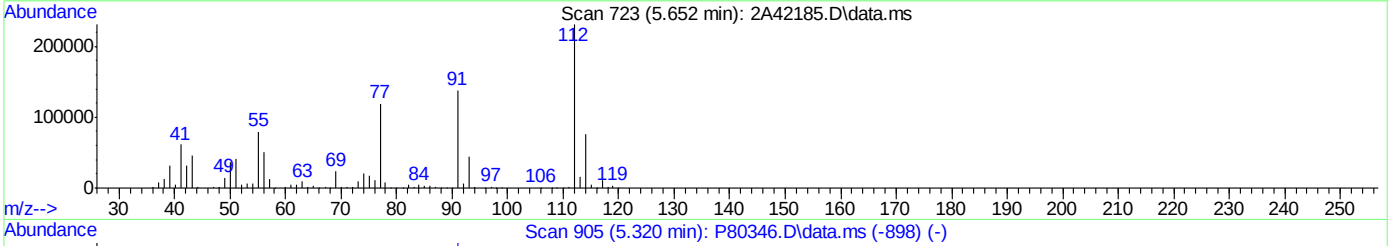
Ion	Exp%	Act%
91.00	100	100
55.00	67.70	0.16#
41.00	60.00	0.66#
43.10	48.60	0.10#

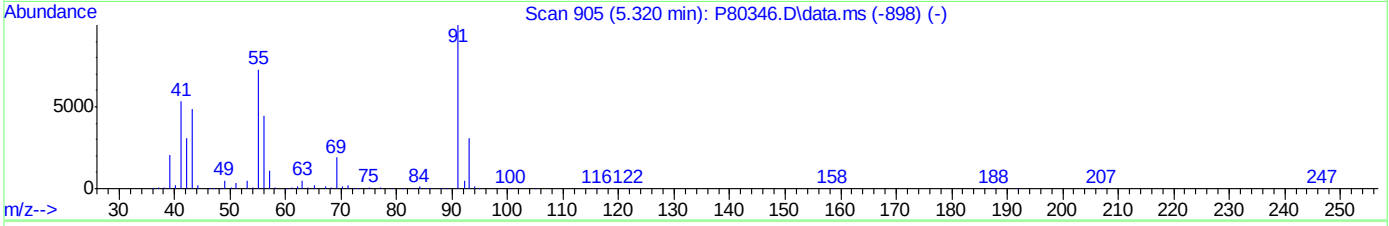
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 14:17:10 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42185.D\data.ms

(76) 1-Chlorohexane

5.652min (+0.003) 93.03ug/L m

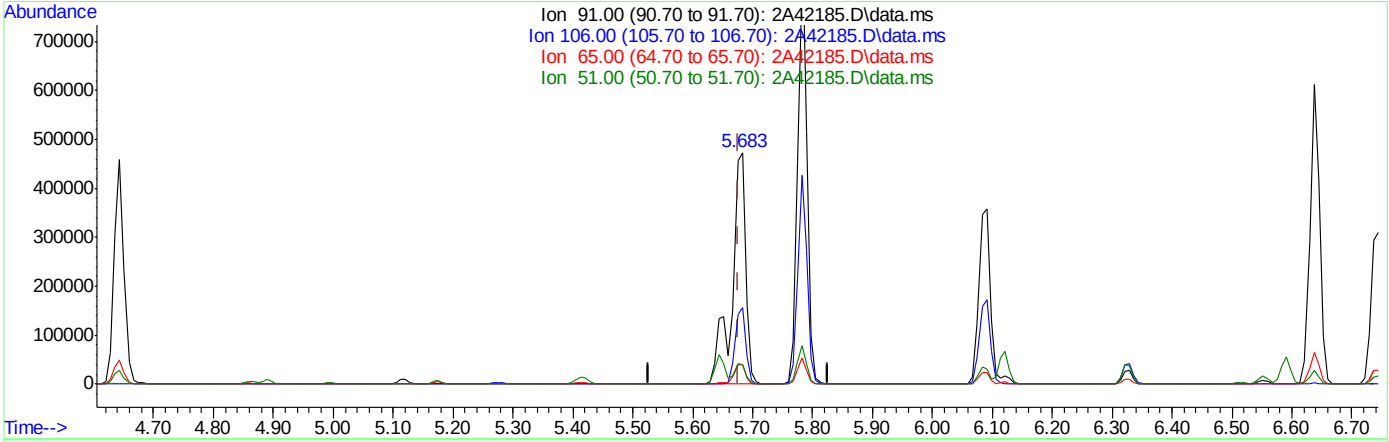
response 174842

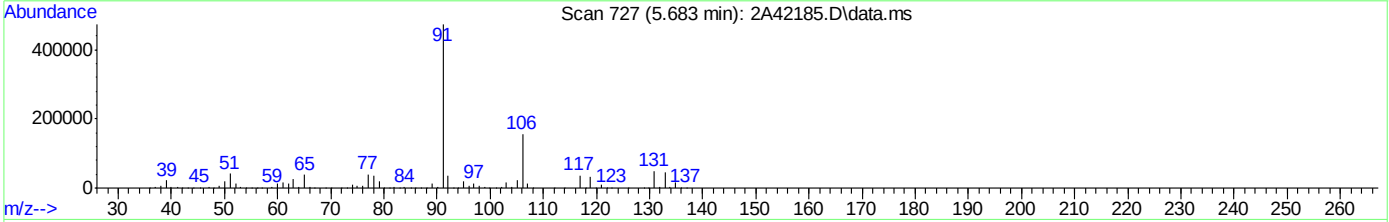
Ion	Exp%	Act%
91.00	100	100
55.00	67.70	57.89
41.00	60.00	44.23
43.10	48.60	33.35

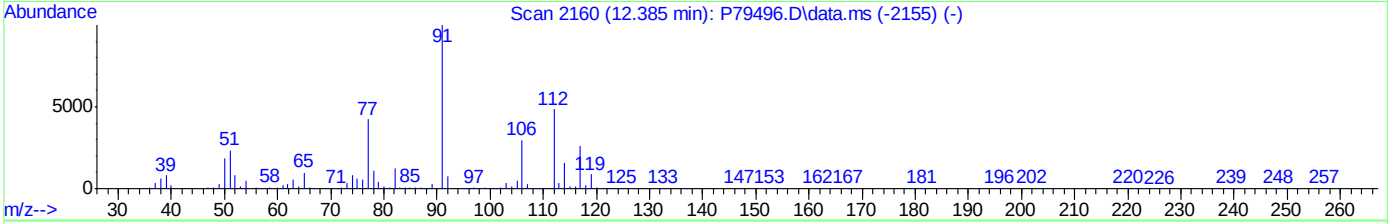
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 14:17:10 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42185.D\data.ms

(77) Ethylbenzene (C)

5.683min (+0.006) 126.61ug/L

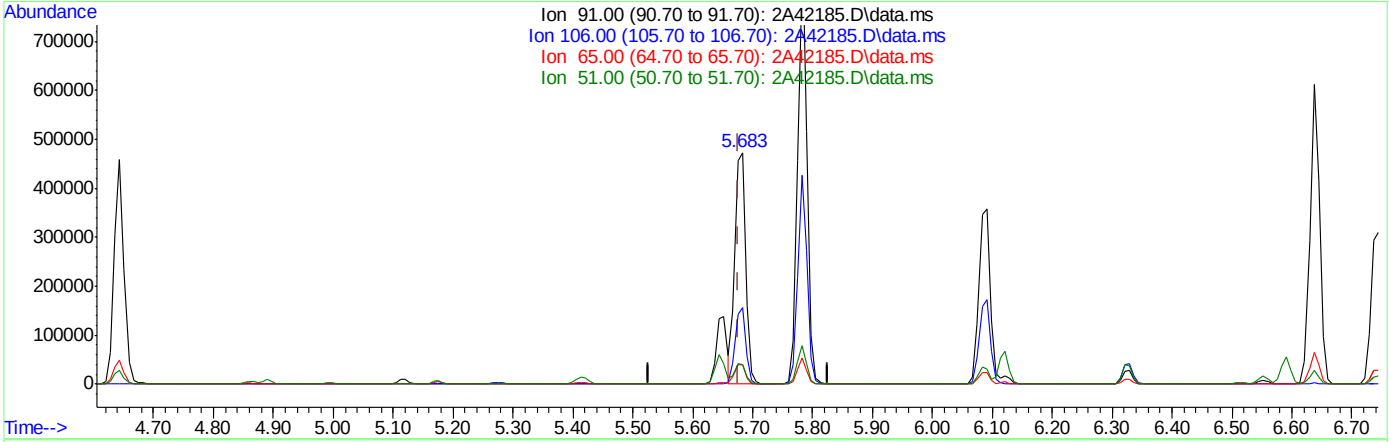
response 760900

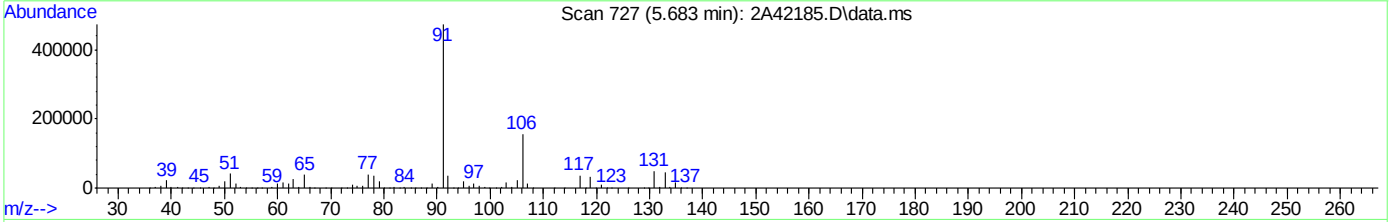
Ion	Exp%	Act%
91.00	100	100
106.00	31.90	32.96
65.00	8.70	8.21
51.00	11.10	8.64

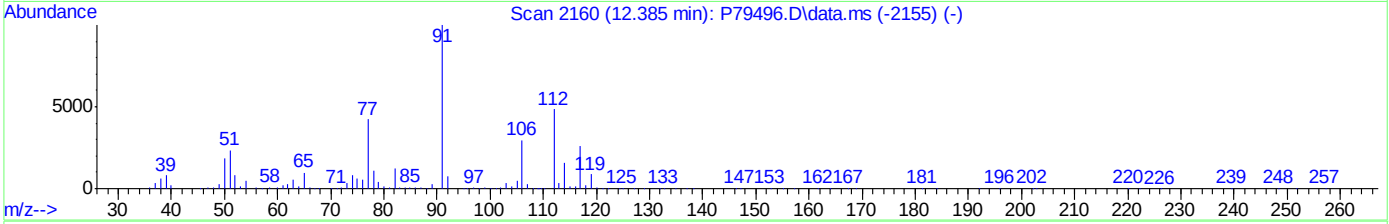
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 14:17:10 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration







TIC: 2A42185.D\data.ms

(77) Ethylbenzene (C)

5.683min (+0.006) 97.51ug/L m

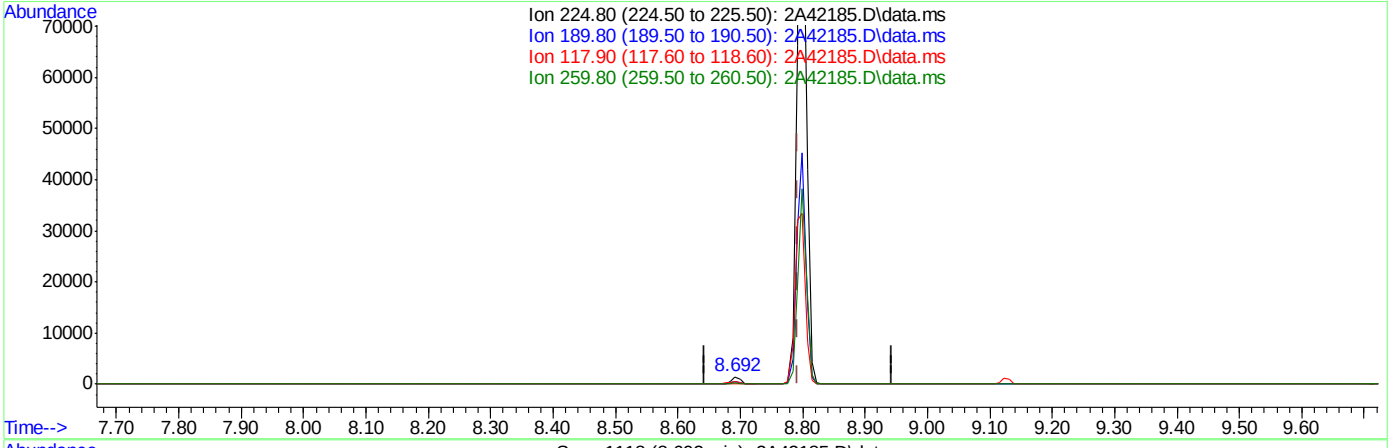
response 586003

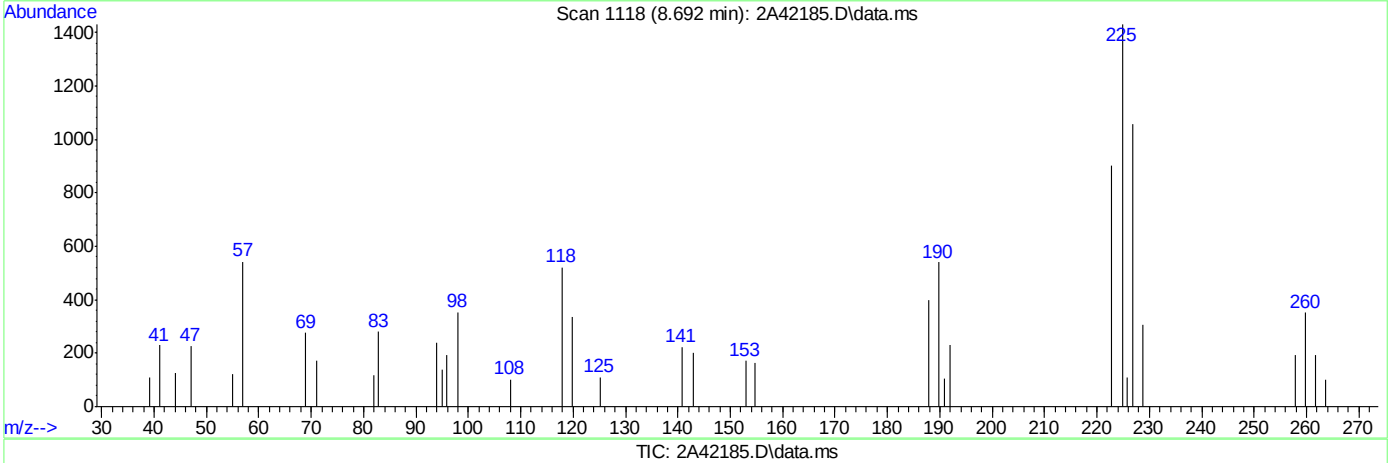
Ion	Exp%	Act%
91.00	100	100
106.00	31.90	32.96
65.00	8.70	8.21
51.00	11.10	8.64

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 15:11:24 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42185.D\data.ms

(109) Hexachlorobutadiene ( )

8.692min (-0.101) 1.90ug/L

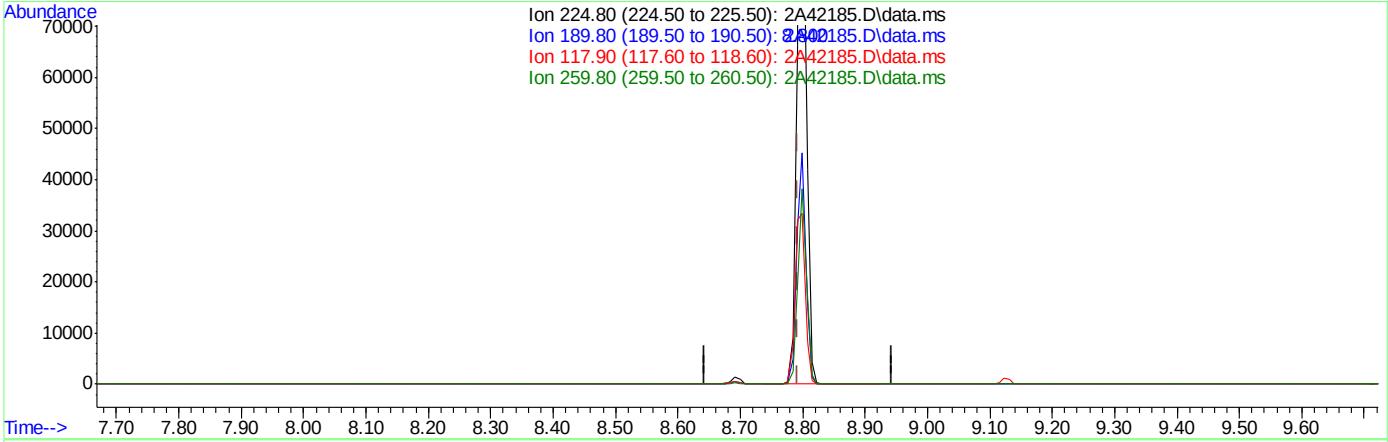
response 1383

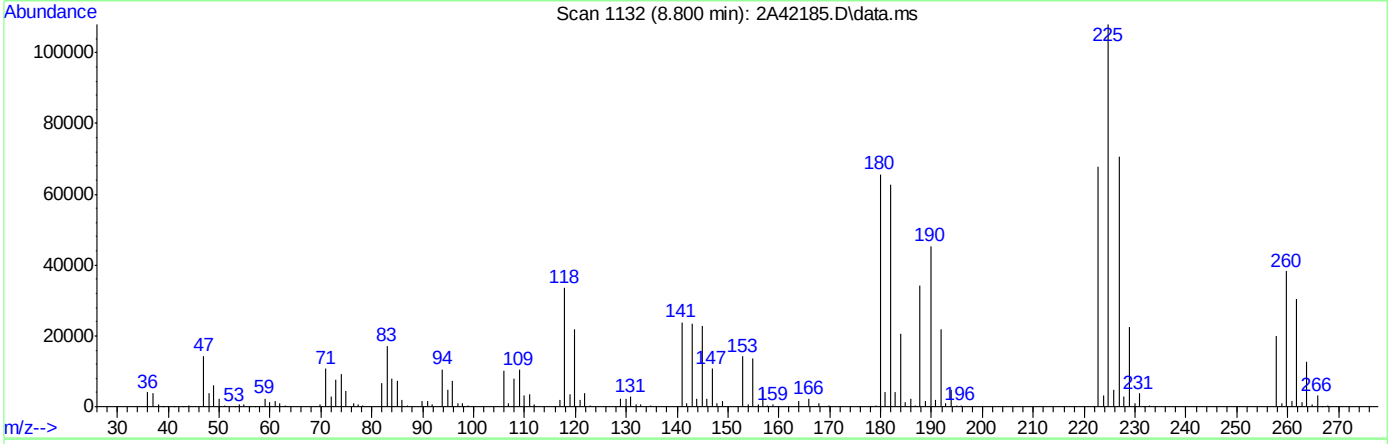
Ion	Exp%	Act%
224.80	100	100
189.80	51.20	37.76
117.90	63.50	36.50
259.80	31.70	24.62

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42185.D
Acq On : 16 Dec 2022 1:41 pm
Operator : joannel
Sample : IC1677-7
Misc : MS53004,V2A1677,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 15:11:24 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 13:45:29 2022
Response via : Initial Calibration





TIC: 2A42185.D\data.ms

(109) Hexachlorobutadiene ( )

8.800min (+0.007) 146.05ug/L m

response 106343

Ion	Exp%	Act%
224.80	100	100
189.80	51.20	41.96
117.90	63.50	31.03#
259.80	31.70	35.42

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 12/20/22 07:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42189.D
Acq On : 16 Dec 2022 3:19 pm
Operator : joannel
Sample : ICV1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Dec 19 09:15:29 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	229495	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	181781	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	104058	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.189	113	67230	50.56	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.12%			
49) 1,2-Dichloroethane-d4	3.481	65	76573	51.00	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.00%			
63) Toluene-d8	4.613	98	225983	49.35	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.70%			
86) 4-Bromofluorobenzene	6.514	174	85753	48.99	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.98%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.049	85	53896	39.48	ug/L	99
3) Chloromethane	1.172	50	44942	39.88	ug/L	99
4) 1,3-butadiene	1.234	39	40149	51.43	ug/L	97
5) Vinyl Chloride	1.219	62	50235	42.02	ug/L	99
6) Bromomethane	1.419	94	30850	38.94	ug/L	100
7) Chloroethane	1.496	64	23009	42.18	ug/L	98
8) Trichlorofluoromethane	1.588	101	80305	44.87	ug/L	99
9) Ethyl Ether	1.780	59	31667	36.97	ug/L	97
10) Ethanol	1.857	45	10280m	776.12	ug/L	
11) 1,2-Dichlorotrifluoroe...	1.880	67	48988	35.45	ug/L	96
12) 1,1-Dichloroethene	1.888	61	65332	39.59	ug/L	96
13) Freon 113	1.919	101	48852	39.54	ug/L	98
14) Carbon Disulfide	1.904	76	130241	40.97	ug/L	98
15) Iodomethane	1.965	142	76918	42.97	ug/L	97
16) Acrolein	2.058	56	45039	184.43	ug/L	100
17) Allyl chloride	2.150	41	53368	41.77	ug/L	97
18) Methylene Chloride	2.204	49	51008	37.94	ug/L	98
19) Acetone	2.219	43	73874	205.17	ug/L	98
20) Methyl acetate	2.304	43	182315	198.14	ug/L	100
21) trans-1,2-Dichloroethene	2.311	61	61542	38.09	ug/L	94
22) Hexane	2.373	56	38111	40.92	ug/L	97
23) Methyl Tert Butyl Ether	2.381	73	128528	38.62	ug/L	97
24) Acetonitrile	2.373	41	68333m	381.94	ug/L	
25) Tert Butyl Alcohol	2.412	59	83619	358.67	ug/L	99
26) Di-isopropyl ether	2.596	45	111049	38.39	ug/L	98
27) Chloroprene	2.635	53	156759	42.86	ug/L	97
28) 1,1-Dichloroethane	2.642	63	80855	39.79	ug/L	97
29) Acrylonitrile	2.635	52	95206	208.68	ug/L	92
30) ETBE	2.796	59	123575	38.23	ug/L	99
31) Vinyl acetate	2.773	43	441436	229.56	ug/L	100
32) cis-1,2-Dichloroethene	2.935	96	51183	38.78	ug/L	97
33) 2,2-Dichloropropane	3.004	77	70734	36.89	ug/L	99
34) Bromochloromethane	3.043	128	26766	39.52	ug/L	97
35) Cyclohexane	3.081	56	72868	40.81	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42189.D
Acq On : 16 Dec 2022 3:19 pm
Operator : joannel
Sample : ICV1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Dec 19 09:15:29 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Chloroform	3.089	83	86822	38.02	ug/L	99
37) Ethyl acetate	3.150	43	242344	203.51	ug/L	100
38) Tetrahydrofuran	3.173	42	15995	43.09	ug/L	96
40) Carbon Tetrachloride	3.189	117	72119m	41.38	ug/L	
41) 1,1,1-Trichloroethane	3.220	97	77756	38.89	ug/L	98
42) 2-Butanone	3.235	43	128730	185.93	ug/L	98
43) 1,1-Dichloropropene	3.289	75	64434	38.39	ug/L	99
44) tert-Butyl formate	3.335	59	147054	150.07	ug/L	100
45) Propionitrile	3.389	54	78012	414.53	ug/L	93
46) Methacrylonitrile	3.412	41	285262	408.95	ug/L	99
47) Benzene	3.420	78	182397	38.20	ug/L	96
48) TAME	3.497	73	122182	38.44	ug/L	99
50) 1,2-Dichloroethane	3.520	62	62665	37.76	ug/L	100
51) Isobutyl Alcohol	3.512	43	39666m	691.36	ug/L	
52) Tert Amyl Alcohol	3.581	59	62260	380.93	ug/L	97
53) Trichloroethene	3.758	95	53775	38.73	ug/L	99
54) Methylcyclohexane	3.781	83	83870	40.99	ug/L	99
55) Dibromomethane	3.989	93	32057	37.54	ug/L	97
56) 1,2-Dichloropropane	4.051	63	42578	36.37	ug/L	99
57) Bromodichloromethane	4.089	83	62610	39.33	ug/L	100
58) Methyl methacrylate	4.189	41	40711	40.86	ug/L	98
59) 1,4-Dioxane	4.205	88	12537	821.36	ug/L	96
60) 2-Chloroethyl vinyl ether	4.436	63	165471	190.44	ug/L	99
61) cis-1,3-Dichloropropene	4.482	75	73447	38.70	ug/L	95
64) Toluene	4.643	91	198995	37.24	ug/L	100
65) 2-Nitropropane	4.744	41	72839	207.07	ug/L	99
66) 4-Methyl-2-pentanone	4.859	43	247516	178.94	ug/L	99
67) trans-1,3-Dichloropropene	4.890	75	69843	42.06	ug/L	100
68) Tetrachloroethene	4.905	166	60450	38.42	ug/L	97
69) Ethyl methacrylate	5.013	69	57866	37.98	ug/L	92
70) 1,1,2-Trichloroethane	4.990	83	37111	38.94	ug/L	99
71) Dibromochloromethane	5.121	129	51024	38.63	ug/L	100
72) 1,3-Dichloropropane	5.175	76	69112	36.39	ug/L	99
73) 1,2-Dibromoethane	5.275	107	49819	38.72	ug/L	99
74) 3,3-Dimethyl-1-Butanol	5.405	57	343759	1770.65	ug/L	100
75) 2-hexanone	5.421	43	244882	180.06	ug/L	99
76) 1-Chlorohexane	5.644	91	71678m	40.81	ug/L	
77) Ethylbenzene	5.675	91	226605m	37.70	ug/L	
78) Chlorobenzene	5.644	112	134445	37.74	ug/L	99
79) 1,1,1,2-Tetrachloroethane	5.690	131	48360	38.94	ug/L	99
80) m,p-Xylene	5.783	91	367612	76.38	ug/L	99
81) o-Xylene	6.083	91	191359	39.17	ug/L	100
82) Styrene	6.121	104	147470	38.73	ug/L	99
83) Bromoform	6.121	173	37776	40.90	ug/L	99
84) Isopropylbenzene	6.329	105	233882	39.05	ug/L	100
87) cis-1,4-Dichloro-2-butene	6.552	53	18734	35.38	ug/L	99
88) n-Propylbenzene	6.637	91	278807	37.74	ug/L	100
89) Bromobenzene	6.591	156	60584	35.75	ug/L	98
90) 1,1,2,2-Tetrachloroethane	6.660	83	63822	36.95	ug/L	98
91) 1,3,5-Trimethylbenzene	6.791	105	194082	36.68	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42189.D
Acq On : 16 Dec 2022 3:19 pm
Operator : joannel
Sample : ICV1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Dec 19 09:15:29 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration

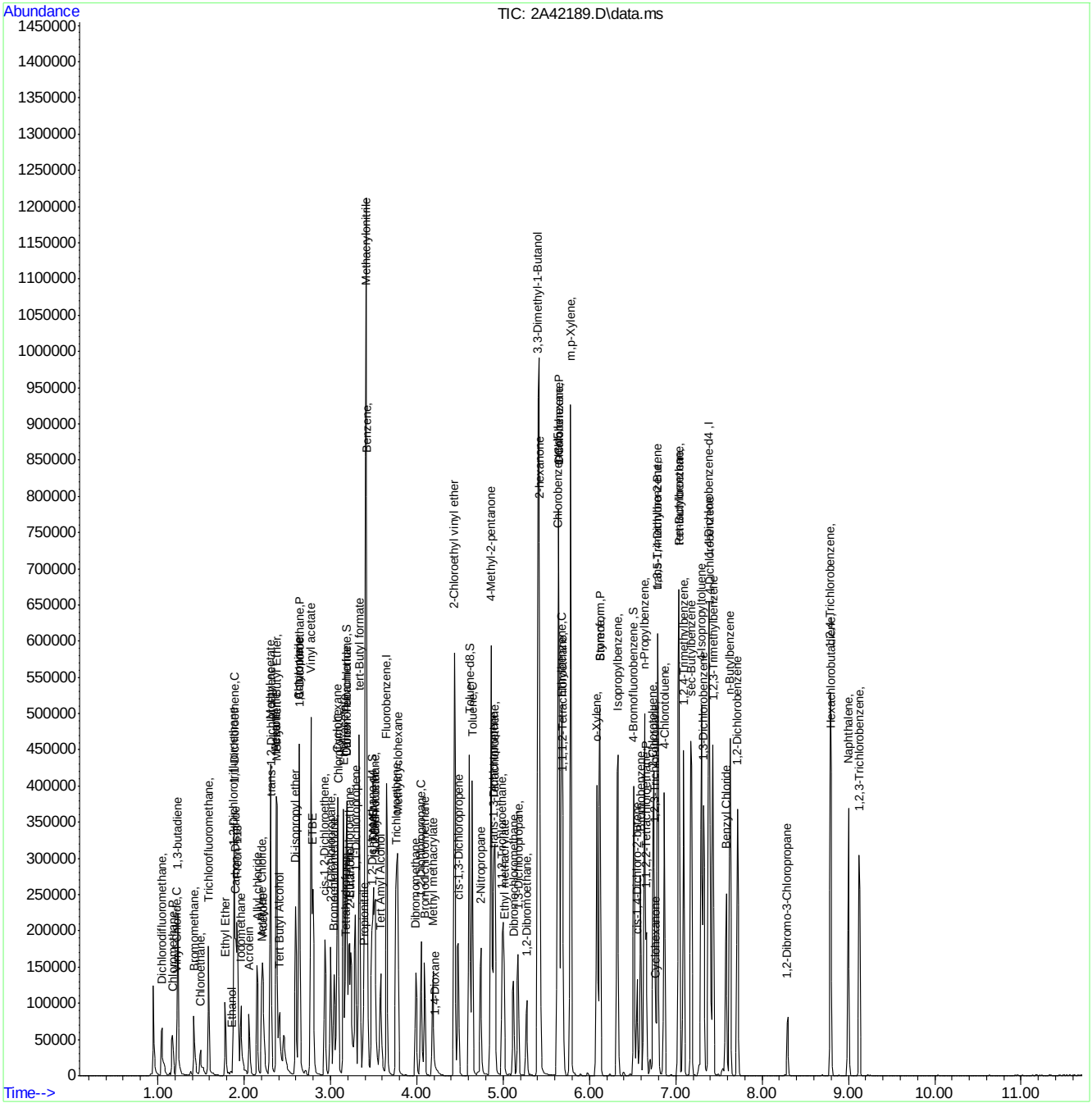
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 2-Chlorotoluene	6.737	91	158098	37.58	ug/L	99
93) trans-1,4-Dichloro-2-B...	6.791	53	23087	39.20	ug/L	99
94) 1,2,3-Trichloropropane	6.752	110	18968	34.97	ug/L	98
95) Cyclohexanone	6.768	55	10225	170.57	ug/L	98
96) 4-Chlorotoluene	6.868	91	166103	37.92	ug/L	99
97) tert-Butylbenzene	7.037	91	112173	37.42	ug/L	100
98) 1,2,4-Trimethylbenzene	7.091	105	187648	37.93	ug/L	99
99) Pentachloroethane	7.037	167	33743	40.75	ug/L	98
100) sec-Butylbenzene	7.176	105	254925	39.20	ug/L	99
101) 4-Isopropyltoluene	7.299	119	222709	39.34	ug/L	100
102) 1,3-Dichlorobenzene	7.322	146	117014	38.00	ug/L	99
103) 1,2,3-Trimethylbenzene	7.430	105	188124	39.55	ug/L	100
104) 1,4-Dichlorobenzene	7.391	146	117153	37.36	ug/L	99
105) n-Butylbenzene	7.630	92	98655	35.99	ug/L	98
106) Benzyl Chloride	7.583	126	28917	41.30	ug/L	97
107) 1,2-Dichlorobenzene	7.714	146	107548	37.18	ug/L	99
108) 1,2-Dibromo-3-Chloropr...	8.292	75	13406	36.10	ug/L	99
109) Hexachlorobutadiene	8.800	225	38951	34.48	ug/L	98
110) 1,2,4-Trichlorobenzene	8.792	180	70668	37.18	ug/L	99
111) Naphthalene	9.000	128	179130	37.46	ug/L	99
112) 1,2,3-Trichlorobenzene	9.123	180	67129	37.02	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42189.D
Acq On : 16 Dec 2022 3:19 pm
Operator : joannel
Sample : ICV1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Dec 19 09:15:29 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration



Manual Integration Approval Summary

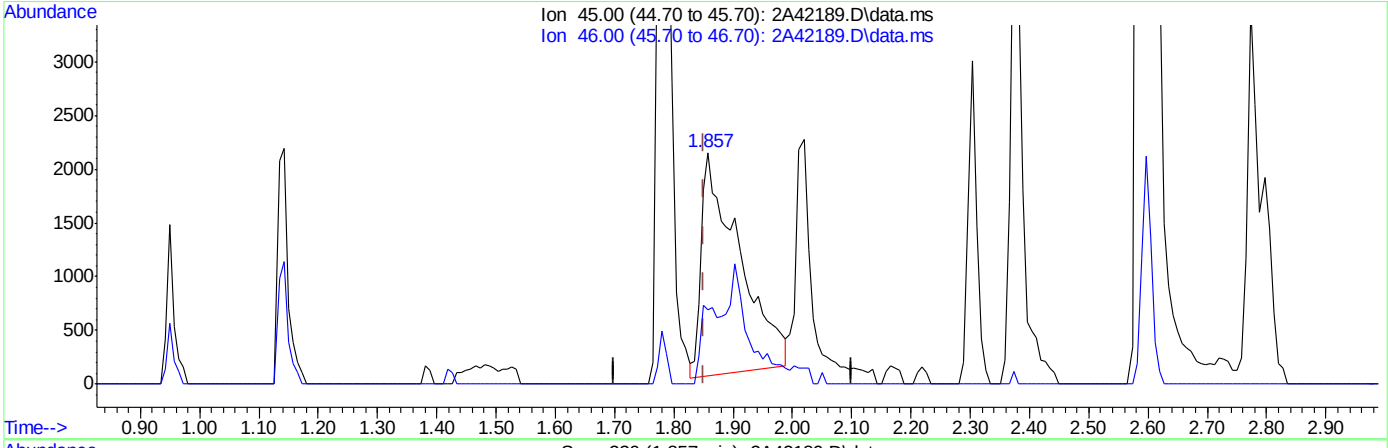
Sample Number: V2A1677-ICV1677 **Method:** SW846 8260D
Lab FileID: 2A42189.D **Analyst approved:** 12/19/22 09:22 Jo-Ann Lugo De Jesus
Injection Time: 12/16/22 15:19 **Supervisor approved:** 12/20/22 07:54 Neil Christiana

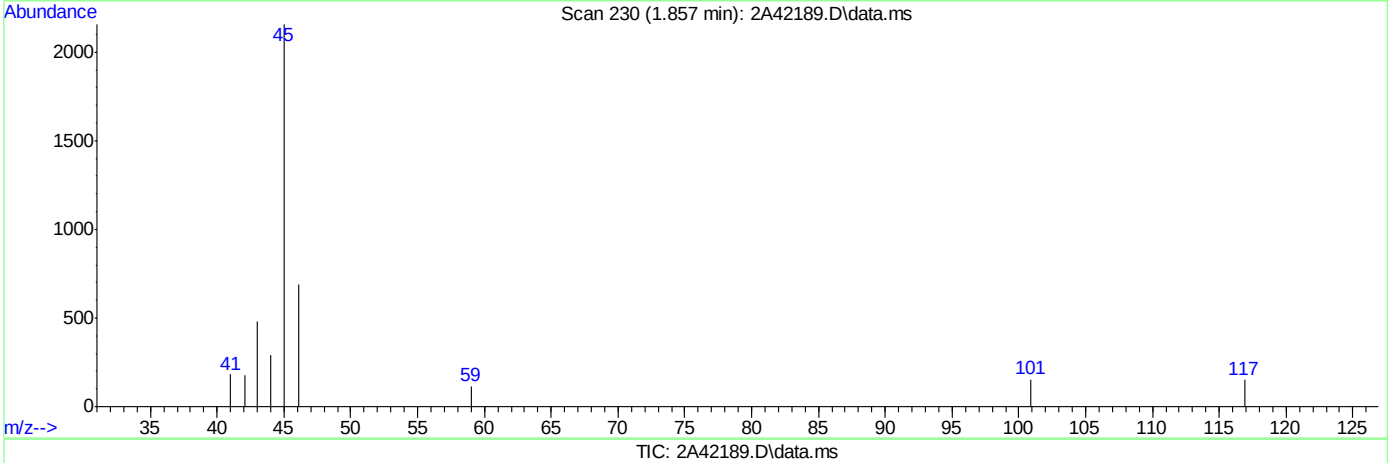
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.86	Poor instrument integration
Acetonitrile	75-05-8		2.37	Overlapping peak
Carbon Tetrachloride	56-23-5		3.19	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration
Ethylbenzene	100-41-4		5.67	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42189.D
Acq On : 16 Dec 2022 3:19 pm
Operator : joannel
Sample : ICV1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Dec 19 09:12:48 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42189.D\data.ms

(10) Ethanol

1.857min (+0.007) 695.18ug/L

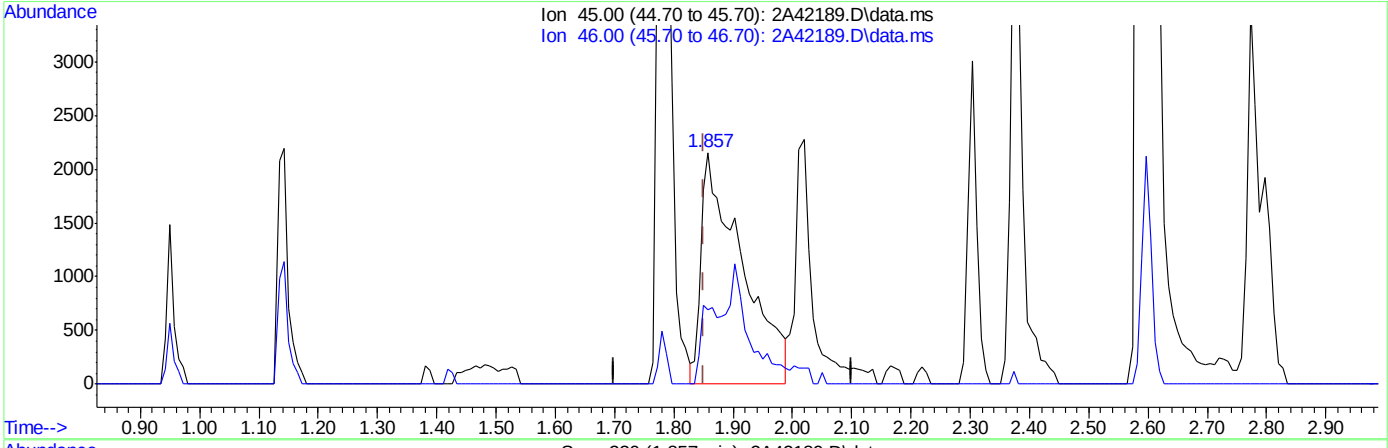
response 9208

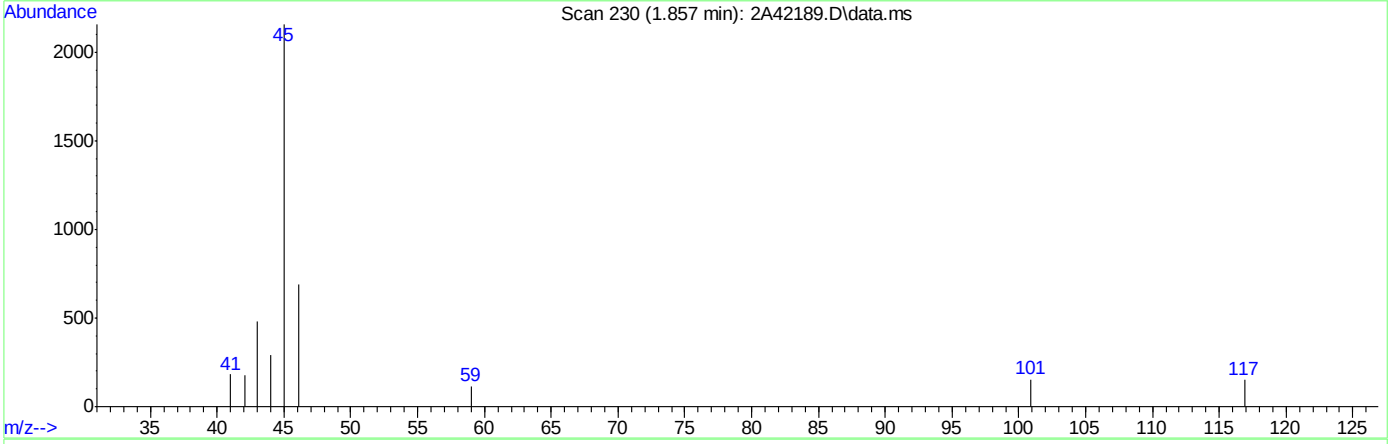
Ion	Exp%	Act%
45.00	100	100
46.00	38.40	35.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42189.D
Acq On : 16 Dec 2022 3:19 pm
Operator : joannel
Sample : ICV1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Dec 19 09:12:48 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42189.D\data.ms

(10) Ethanol

1.857min (+0.007) 776.12ug/L m

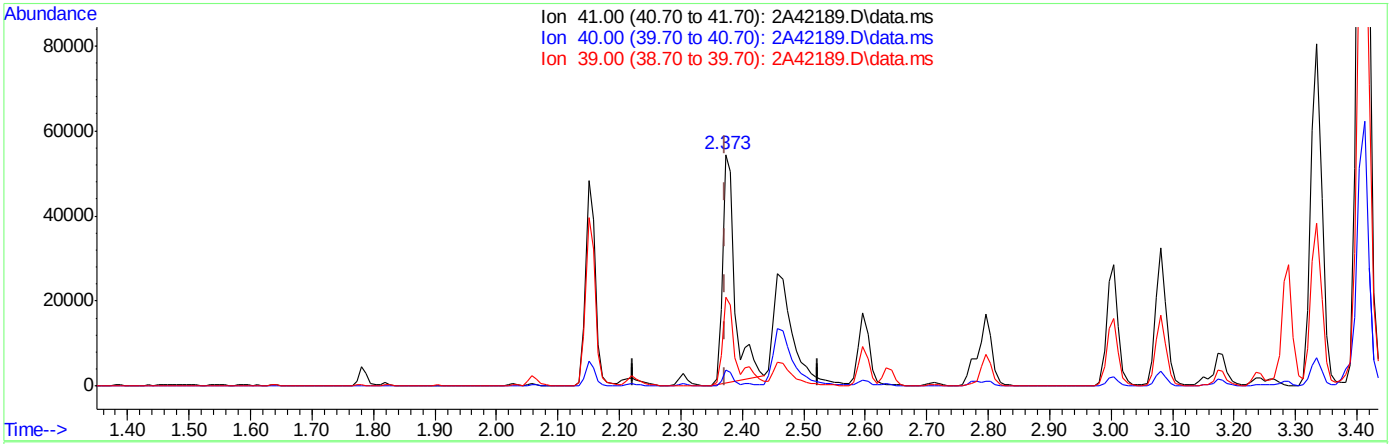
response 10280

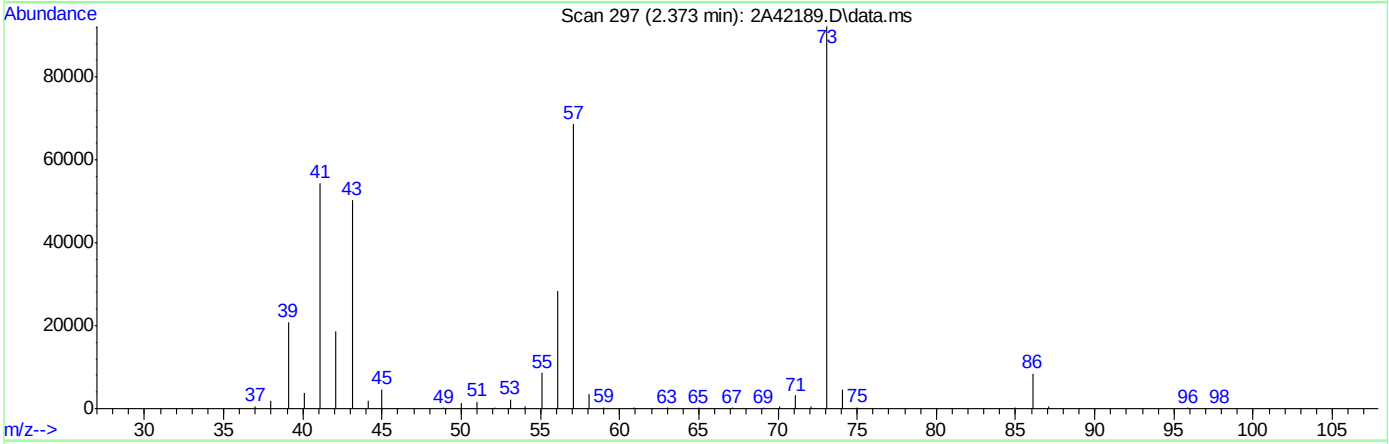
Ion	Exp%	Act%
45.00	100	100
46.00	38.40	32.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42189.D
Acq On : 16 Dec 2022 3:19 pm
Operator : joannel
Sample : ICV1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Dec 19 09:12:48 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42189.D\data.ms

(24) Acetonitrile

2.373min (+0.000) 423.75ug/L

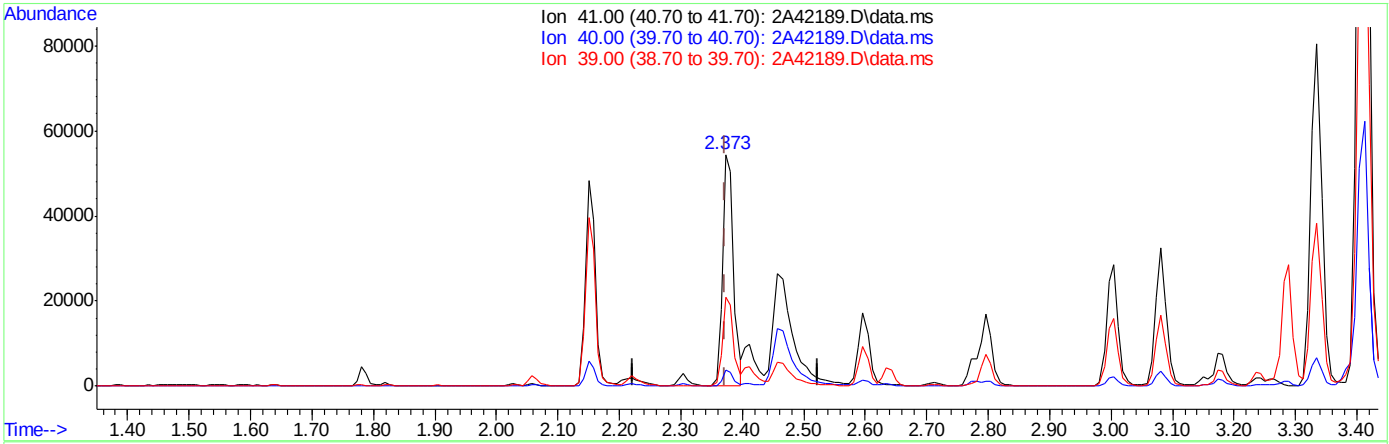
response 75814

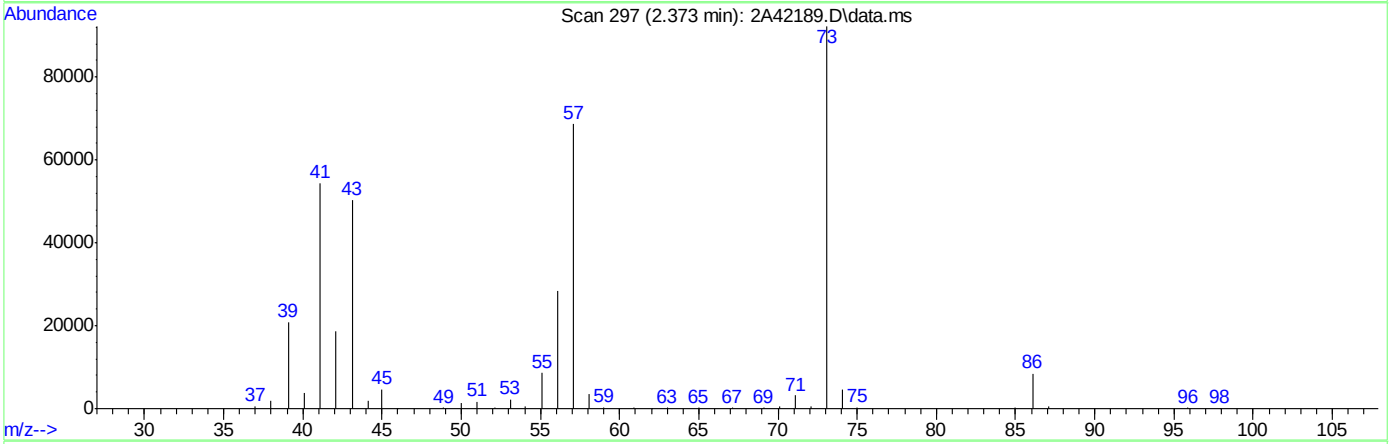
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.55
39.00	38.40	38.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42189.D
Acq On : 16 Dec 2022 3:19 pm
Operator : joannel
Sample : ICV1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Dec 19 09:12:48 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42189.D\data.ms

(24) Acetonitrile

2.373min (+0.000) 381.94ug/L m

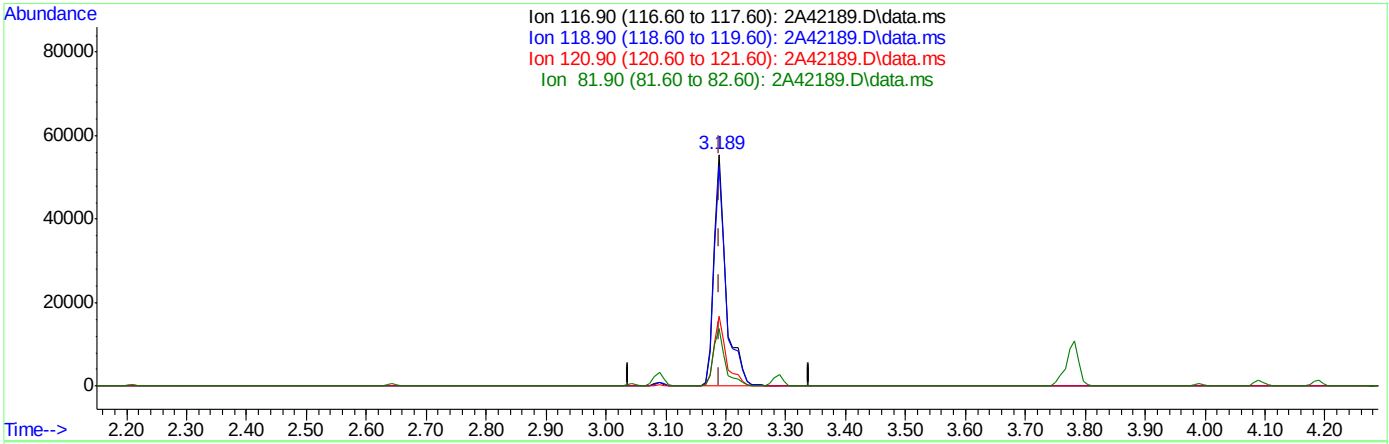
response 68333

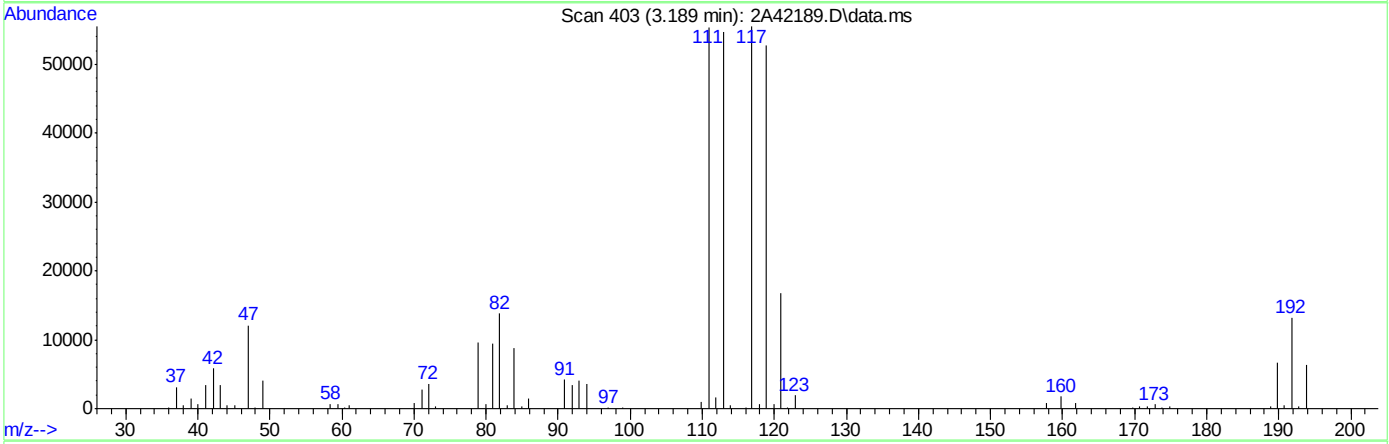
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.74
39.00	38.40	38.36
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42189.D
Acq On : 16 Dec 2022 3:19 pm
Operator : joannel
Sample : ICV1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Dec 19 09:12:48 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42189.D\data.ms

(40) Carbon Tetrachloride ( )

3.189min (-0.000) 45.64ug/L

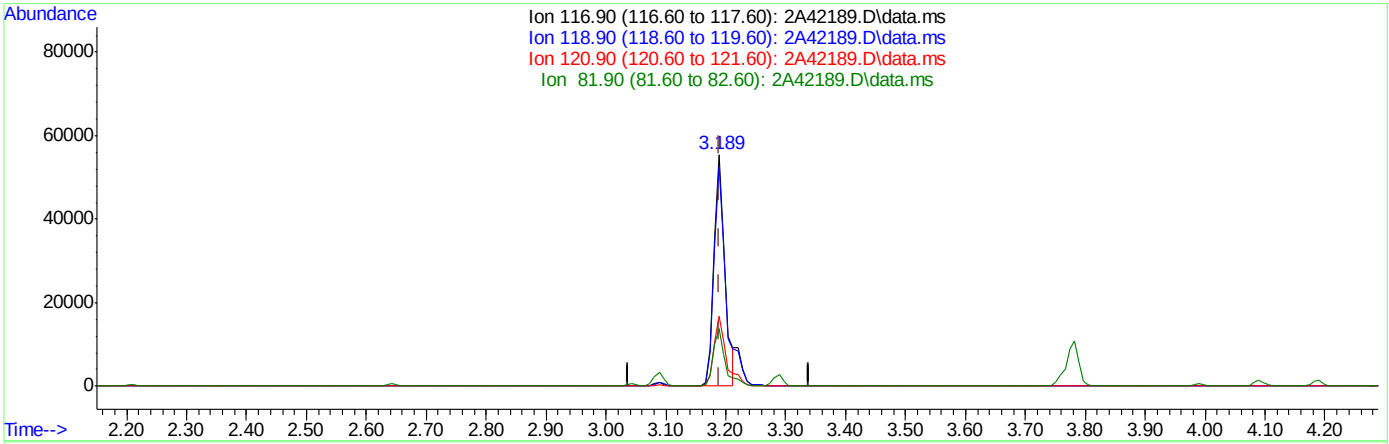
response 79542

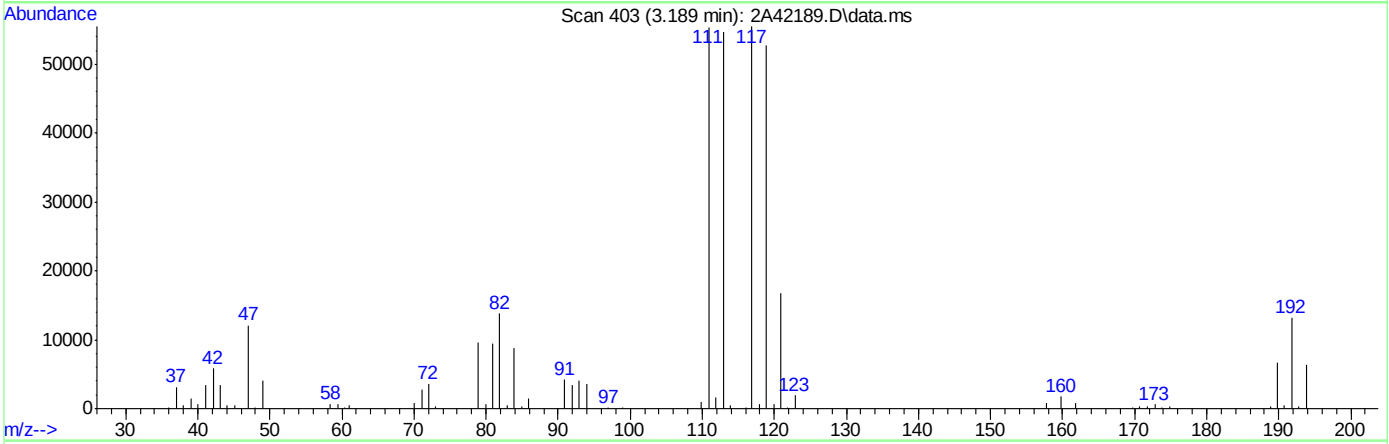
Ion	Exp%	Act%
116.90	100	100
118.90	97.20	95.13
120.90	30.70	30.27
81.90	24.80	24.82

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42189.D
Acq On : 16 Dec 2022 3:19 pm
Operator : joannel
Sample : ICV1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Dec 19 09:12:48 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42189.D\data.ms

(40) Carbon Tetrachloride ( )

3.189min (-0.000) 41.38ug/L m

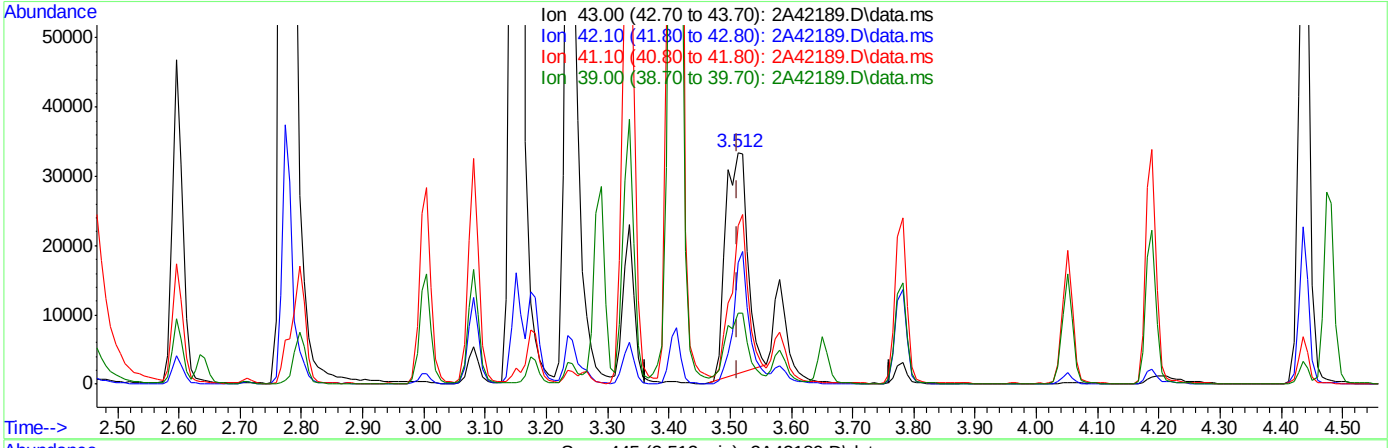
response 72119

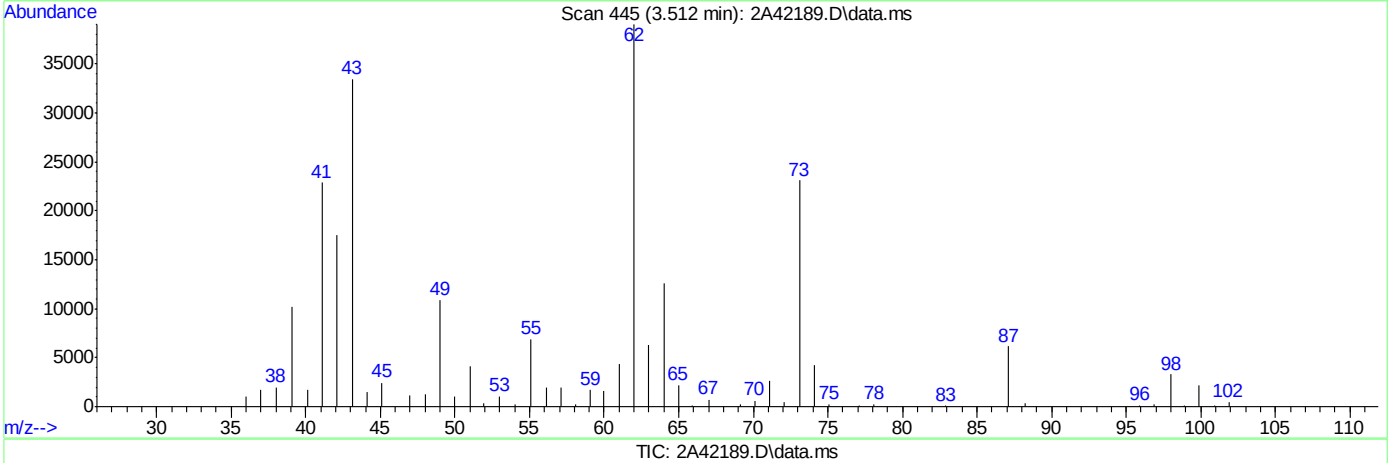
Ion	Exp%	Act%
116.90	100	100
118.90	97.20	95.13
120.90	30.70	30.27
81.90	24.80	24.82

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42189.D
Acq On : 16 Dec 2022 3:19 pm
Operator : joannel
Sample : ICV1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Dec 19 09:12:48 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42189.D\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 1364.30ug/L

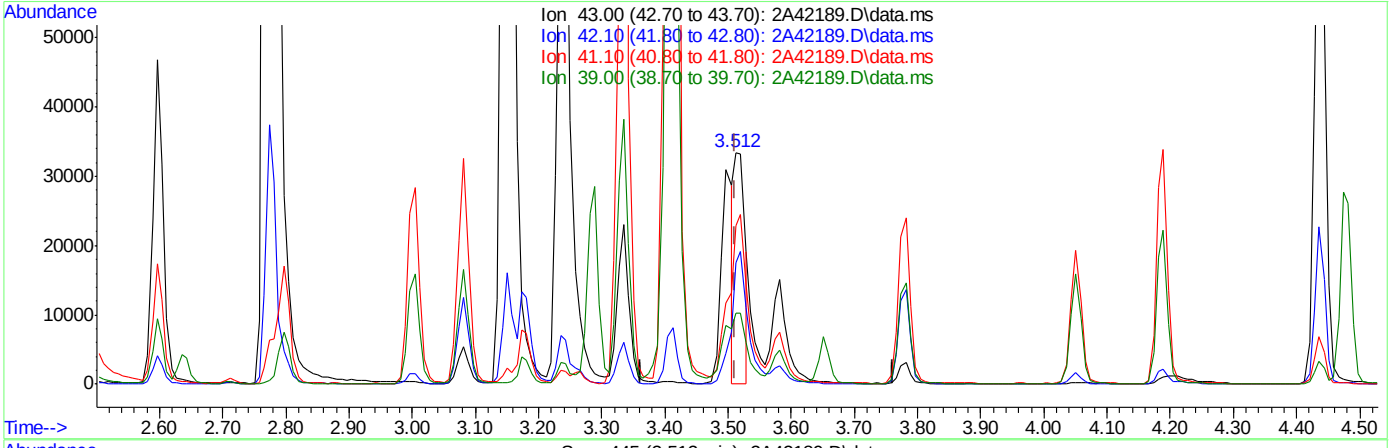
response 80119

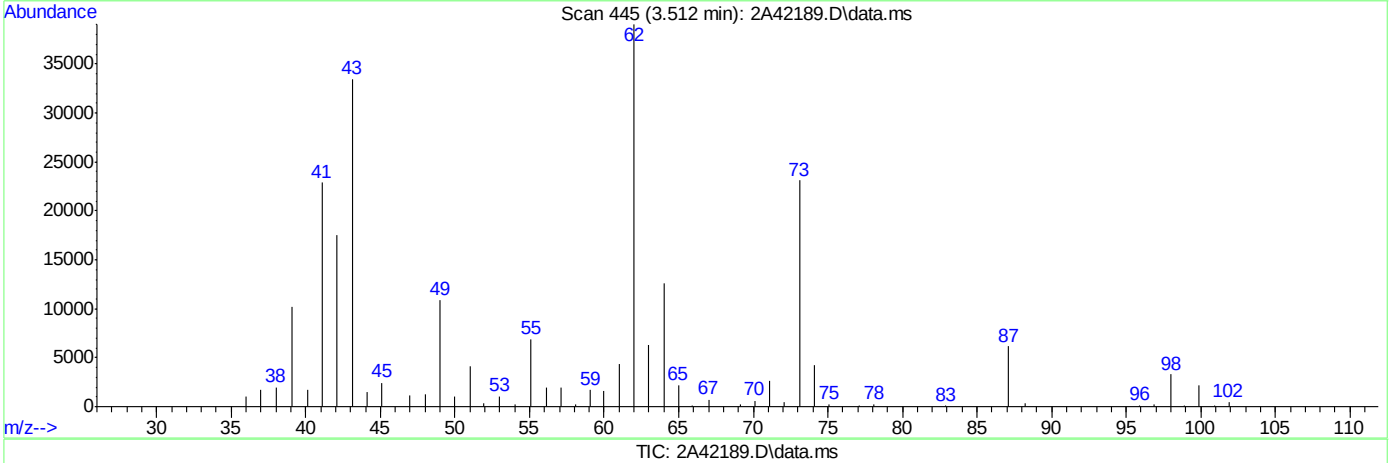
Ion	Exp%	Act%
43.00	100	100
42.10	53.70	52.43
41.10	71.30	64.99
39.00	30.90	27.99

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42189.D
Acq On : 16 Dec 2022 3:19 pm
Operator : joannel
Sample : ICV1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Dec 19 09:12:48 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42189.D\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 691.36ug/L m

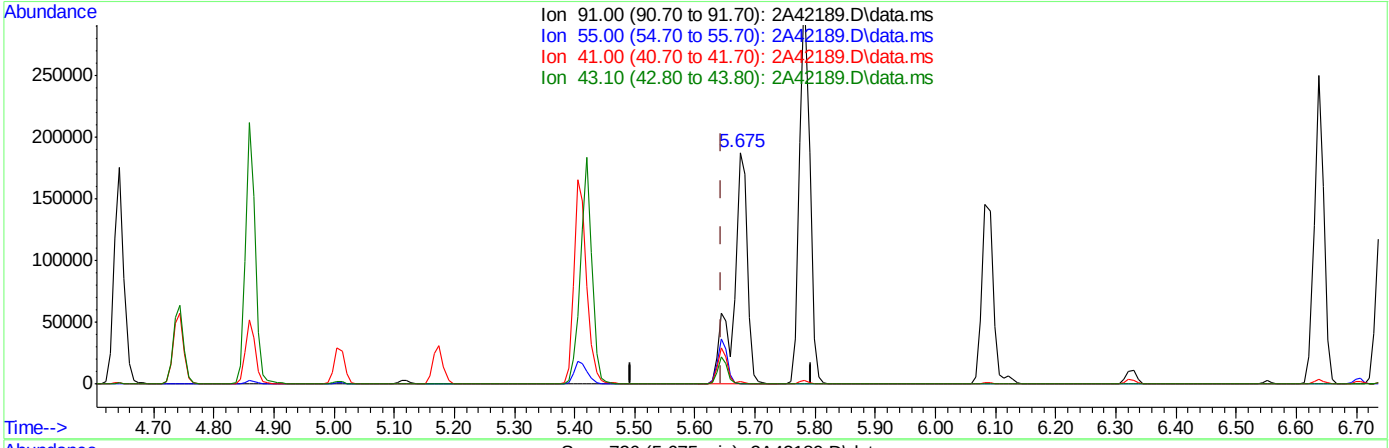
response 39666

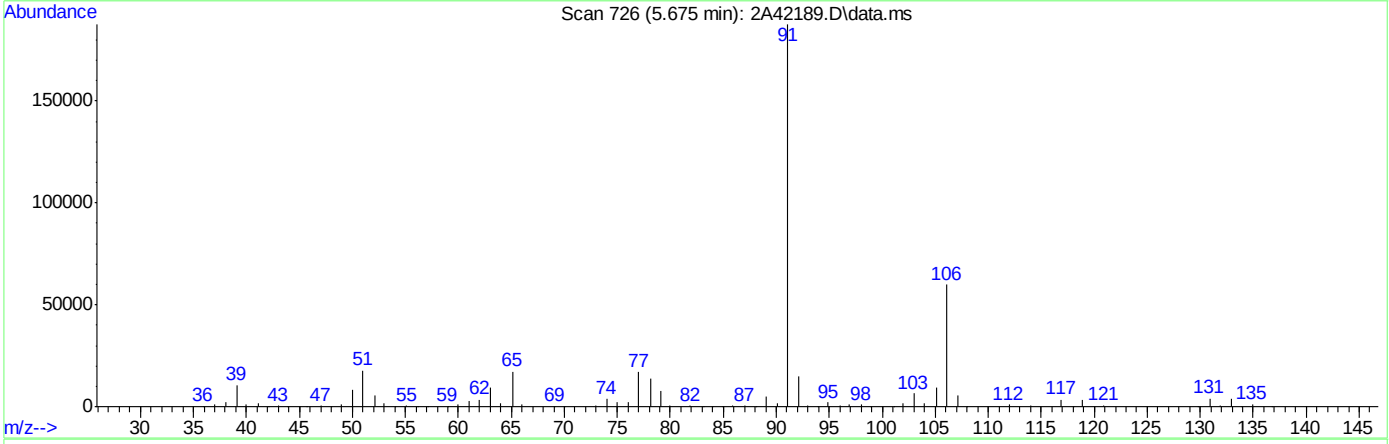
Ion	Exp%	Act%
43.00	100	100
42.10	53.70	52.53
41.10	71.30	68.39
39.00	30.90	30.42

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42189.D
Acq On : 16 Dec 2022 3:19 pm
Operator : joannel
Sample : ICV1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Dec 19 09:12:48 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42189.D\data.ms

(76) 1-Chlorohexane

5.675min (+0.031) 170.67ug/L

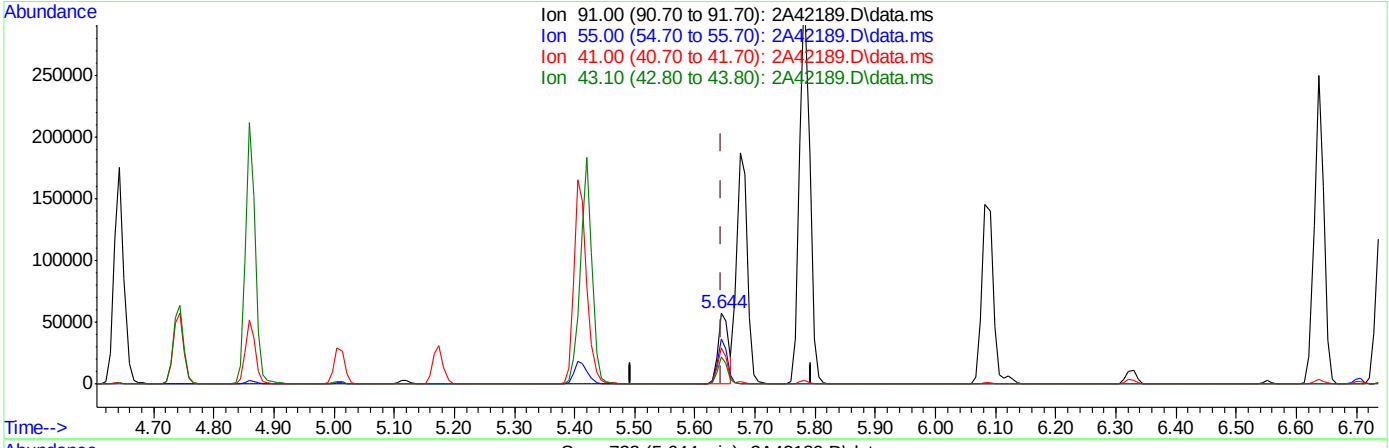
response 298326

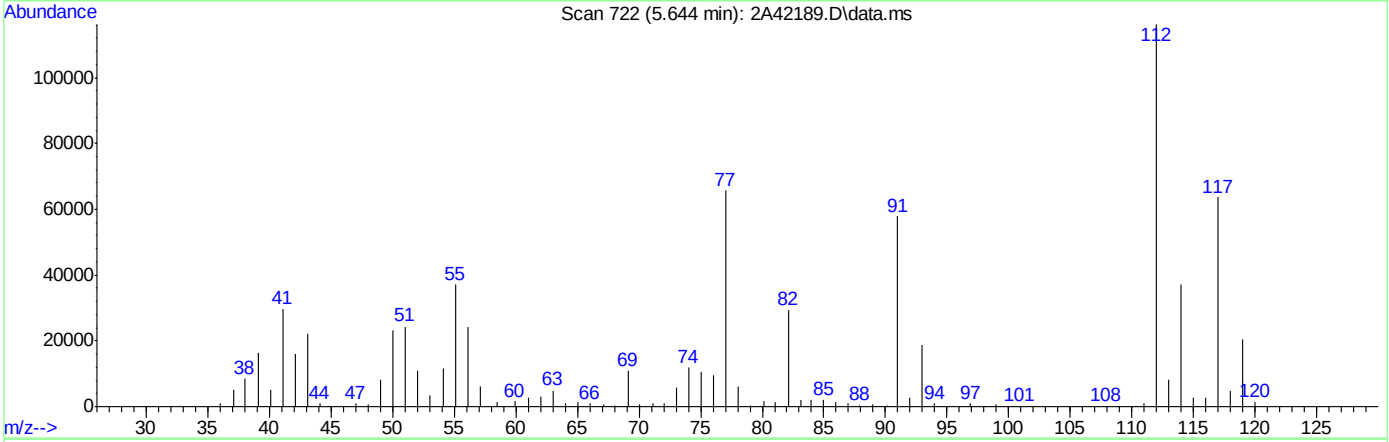
Ion	Exp%	Act%
91.00	100	100
55.00	64.00	0.24#
41.00	50.80	0.85#
43.10	38.80	0.17#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42189.D
Acq On : 16 Dec 2022 3:19 pm
Operator : joannel
Sample : ICV1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Dec 19 09:12:48 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42189.D\data.ms

(76) 1-Chlorohexane

5.644min (+0.000) 40.81ug/L m

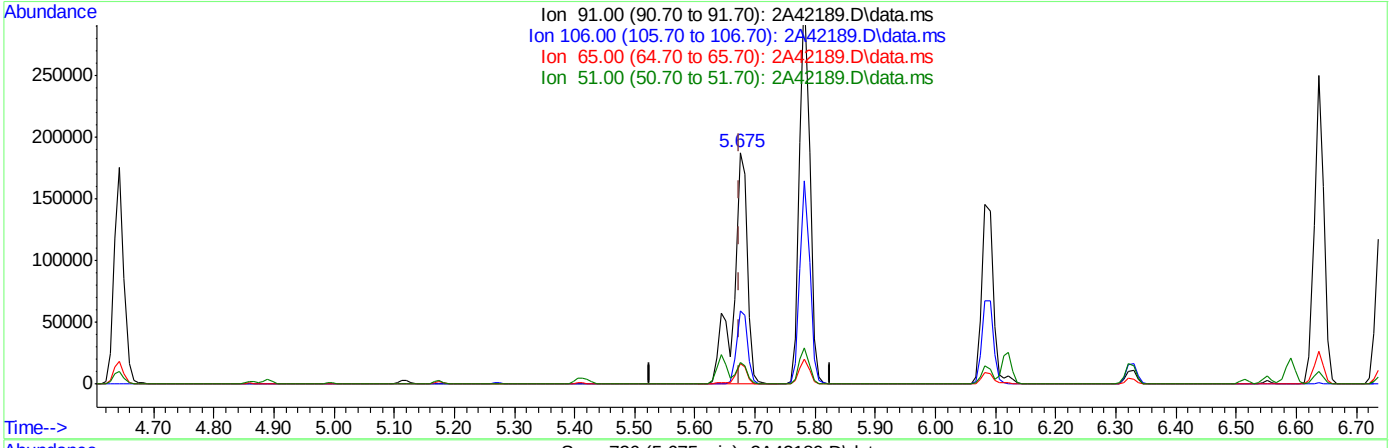
response 71678

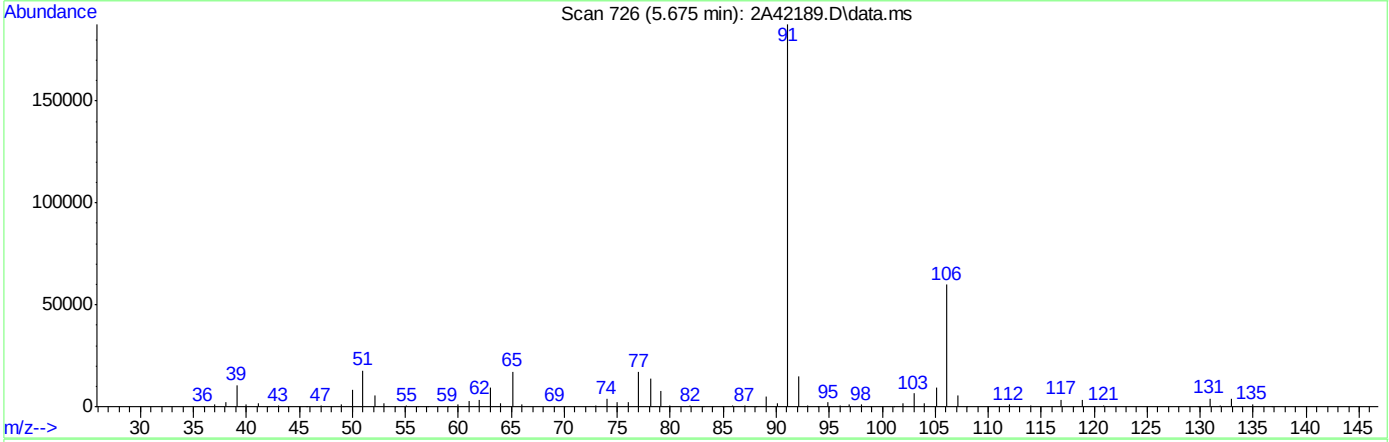
Ion	Exp%	Act%
91.00	100	100
55.00	64.00	64.17
41.00	50.80	51.34
43.10	38.80	38.57

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42189.D
Acq On : 16 Dec 2022 3:19 pm
Operator : joannel
Sample : ICV1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Dec 19 09:12:48 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42189.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.000) 49.63ug/L

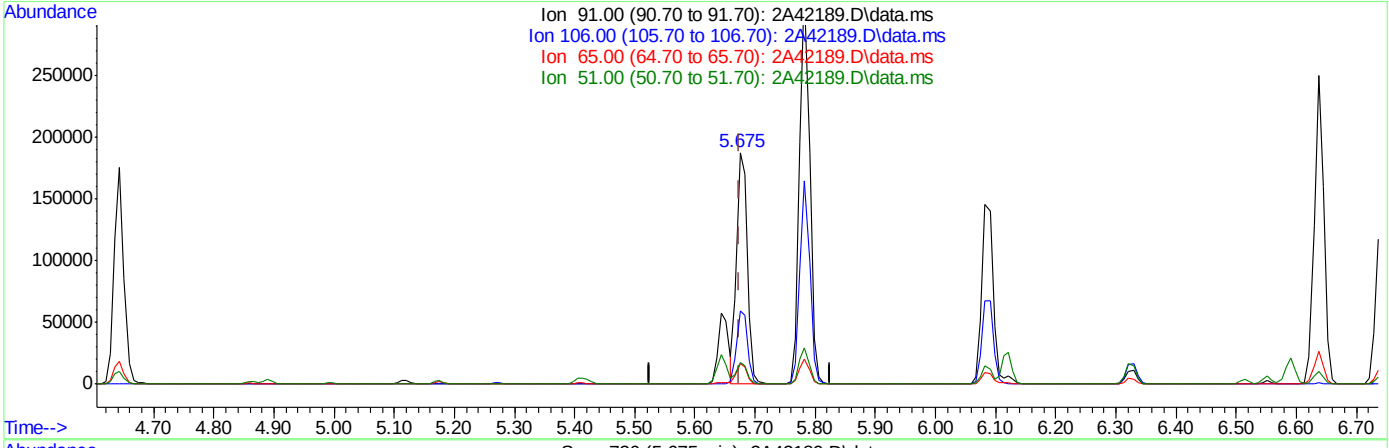
response 298326

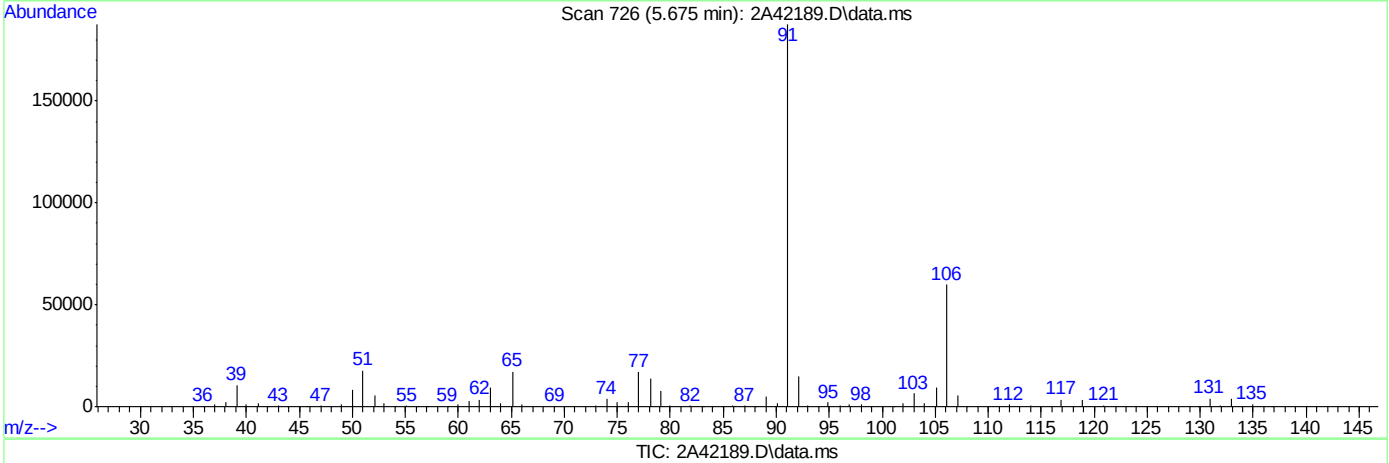
Ion	Exp%	Act%
91.00	100	100
106.00	31.80	31.83
65.00	8.80	9.10
51.00	9.50	9.42

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\12-16-2022\
Data File : 2A42189.D
Acq On : 16 Dec 2022 3:19 pm
Operator : joannel
Sample : ICV1677-5
Misc : MS53004,V2A1677,,,,,
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Dec 19 09:12:48 2022
Quant Method : C:\msdchem\1\METHODS\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42189.D\data.ms

(77) Ethylbenzene (C)

5.675min (-0.000) 37.70ug/L m

response 226605

Ion	Exp%	Act%
91.00	100	100
106.00	31.80	31.83
65.00	8.80	9.10
51.00	9.50	9.42

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 12/28/22 12:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42432.d
Acq On : 27 Dec 2022 12:45 pm
Operator : joannel
Sample : CC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 27 23:32:49 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.651	96	202162	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.636	117	163475	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.383	152	94694	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.181	113	58879	50.27	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.54%				
49) 1,2-Dichloroethane-d4	3.474	65	65097	49.22	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.44%				
63) Toluene-d8	4.605	98	197622	47.99	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.98%				
86) 4-Bromofluorobenzene	6.514	174	77723	48.80	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.042	85	43968	36.56	ug/L		99
3) Chloromethane	1.165	50	34935	35.19	ug/L		99
4) 1,3-butadiene	1.226	39	27811	40.44	ug/L		95
5) Vinyl Chloride	1.211	62	39528	37.53	ug/L		99
6) Bromomethane	1.411	94	30198	43.27	ug/L		99
7) Chloroethane	1.488	64	21738	46.26	ug/L		97
8) Trichlorofluoromethane	1.580	101	69197	43.89	ug/L		100
9) Ethyl Ether	1.773	59	26588	35.24	ug/L		97
10) Ethanol	1.850	45	9488m	813.17	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.881	67	41872	34.40	ug/L		95
12) 1,1-Dichloroethene	1.881	61	47046	32.36	ug/L		96
13) Freon 113	1.919	101	36634	33.66	ug/L		97
14) Carbon Disulfide	1.896	76	91035	32.50	ug/L		97
15) Iodomethane	1.958	142	43174	27.38	ug/L		99
16) Acrolein	2.050	56	39107	181.77	ug/L		98
17) Allyl chloride	2.150	41	40358	35.85	ug/L		96
18) Methylene Chloride	2.204	49	41312	34.74	ug/L		93
19) Acetone	2.212	43	58386	183.74	ug/L		98
20) Methyl acetate	2.296	43	137377	169.49	ug/L		99
21) trans-1,2-Dichloroethene	2.304	61	47538	33.40	ug/L		94
22) Hexane	2.373	56	26825	32.69	ug/L		97
23) Methyl Tert Butyl Ether	2.373	73	105186	35.88	ug/L		94
24) Acetonitrile	2.373	41	47220m	299.61	ug/L		
25) Tert Butyl Alcohol	2.404	59	65576	319.31	ug/L		98
26) Di-isopropyl ether	2.596	45	87475	34.33	ug/L		96
27) Chloroprene	2.635	53	119585	37.12	ug/L		98
28) 1,1-Dichloroethane	2.635	63	62854	35.11	ug/L		100
29) Acrylonitrile	2.635	52	73262	182.30	ug/L		96
30) ETBE	2.796	59	102608	36.04	ug/L		99
31) Vinyl acetate	2.773	43	318996	188.32	ug/L		99
32) cis-1,2-Dichloroethene	2.935	96	41625	35.80	ug/L		97
33) 2,2-Dichloropropane	2.997	77	57397	33.98	ug/L		99
34) Bromochloromethane	3.043	128	20666	34.64	ug/L		93
35) Cyclohexane	3.081	56	51447	32.71	ug/L		96
36) Chloroform	3.081	83	71823	35.70	ug/L		99
37) Ethyl acetate	3.150	43	190279	181.39	ug/L		99
38) Tetrahydrofuran	3.150	42	27292	81.58	ug/L	#	35
40) Carbon Tetrachloride	3.189	117	54940m	35.79	ug/L		
41) 1,1,1-Trichloroethane	3.212	97	62564	35.52	ug/L		98
42) 2-Butanone	3.235	43	100564	164.89	ug/L		98
43) 1,1-Dichloropropene	3.281	75	52135	35.26	ug/L		96
44) tert-Butyl formate	3.335	59	154416	178.89	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42432.d
Acq On : 27 Dec 2022 12:45 pm
Operator : joannel
Sample : CC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 27 23:32:49 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Propionitrile	3.381	54	65102	392.71	ug/L	97
46) Methacrylonitrile	3.404	41	233958	380.75	ug/L	96
47) Benzene	3.420	78	152048	36.15	ug/L	95
48) TAME	3.497	73	100374	35.85	ug/L	100
50) 1,2-Dichloroethane	3.512	62	52131	35.66	ug/L	99
51) Isobutyl Alcohol	3.512	43	39558m	780.27	ug/L	
52) Tert Amyl Alcohol	3.581	59	51960	360.90	ug/L	99
53) Trichloroethene	3.759	95	43601	35.65	ug/L	94
54) Methylcyclohexane	3.774	83	60468	33.54	ug/L	97
55) Dibromomethane	3.989	93	27184	36.14	ug/L	98
56) 1,2-Dichloropropane	4.051	63	36786	35.67	ug/L	99
57) Bromodichloromethane	4.089	83	51928	37.03	ug/L	99
58) Methyl methacrylate	4.182	41	31057	35.45	ug/L	94
59) 1,4-Dioxane	4.205	88	11499	855.21	ug/L	95
60) 2-Chloroethyl vinyl ether	4.436	63	135227	176.67	ug/L	97
61) cis-1,3-Dichloropropene	4.474	75	60110	35.95	ug/L	97
64) Toluene	4.644	91	166020	34.55	ug/L	99
65) 2-Nitropropane	4.744	41	57906	183.05	ug/L	99
66) 4-Methyl-2-pentanone	4.859	43	206547	166.04	ug/L	99
67) trans-1,3-Dichloropropene	4.890	75	54895	36.76	ug/L	99
68) Tetrachloroethene	4.905	166	50803	35.90	ug/L	99
69) Ethyl methacrylate	5.005	69	49377	36.09	ug/L	99
70) 1,1,2-Trichloroethane	4.990	83	31641	36.91	ug/L	99
71) Dibromochloromethane	5.121	129	45292	38.13	ug/L	99
72) 1,3-Dichloropropane	5.175	76	61334	35.92	ug/L	99
73) 1,2-Dibromoethane	5.275	107	42539	36.76	ug/L	98
74) 3,3-Dimethyl-1-Butanol	5.406	57	312290	1788.69	ug/L	100
75) 2-hexanone	5.421	43	211286	172.76	ug/L	98
76) 1-Chlorohexane	5.644	91	57418m	36.35	ug/L	
77) Ethylbenzene	5.675	91	188284m	34.83	ug/L	
78) Chlorobenzene	5.644	112	115731	36.12	ug/L	97
79) 1,1,1,2-Tetrachloroethane	5.690	131	42014	37.62	ug/L	99
80) m,p-Xylene	5.783	91	305908	70.68	ug/L	99
81) o-Xylene	6.083	91	157343	35.82	ug/L	99
82) Styrene	6.121	104	125431	36.63	ug/L	99
83) Bromoform	6.121	173	31896	38.40	ug/L	98
84) Isopropylbenzene	6.329	105	192459	35.74	ug/L	99
87) cis-1,4-Dichloro-2-butene	6.552	53	14028	29.11	ug/L	97
88) n-Propylbenzene	6.637	91	227731	33.87	ug/L	99
89) Bromobenzene	6.591	156	54517	35.36	ug/L	96
90) 1,1,2,2-Tetrachloroethane	6.660	83	54449	34.64	ug/L	99
91) 1,3,5-Trimethylbenzene	6.791	105	165450	34.36	ug/L	99
92) 2-Chlorotoluene	6.737	91	130611	34.11	ug/L	98
93) trans-1,4-Dichloro-2-B...	6.791	53	16837	31.41	ug/L	96
94) 1,2,3-Trichloropropane	6.752	110	17505	35.46	ug/L	97
95) Cyclohexanone	6.768	55	9719	178.16	ug/L	98
96) 4-Chlorotoluene	6.868	91	137536	34.50	ug/L	98
97) tert-Butylbenzene	7.037	91	91207	33.43	ug/L	99
98) 1,2,4-Trimethylbenzene	7.091	105	156472	34.76	ug/L	99
99) Pentachloroethane	7.037	167	28313	37.84	ug/L	96
100) sec-Butylbenzene	7.176	105	199712	33.75	ug/L	99
101) 4-Isopropyltoluene	7.299	119	175537	34.07	ug/L	99
102) 1,3-Dichlorobenzene	7.322	146	99772	35.60	ug/L	99
103) 1,2,3-Trimethylbenzene	7.430	105	152684	35.28	ug/L	100
104) 1,4-Dichlorobenzene	7.391	146	101321	35.51	ug/L	99
105) n-Butylbenzene	7.630	92	83755	33.57	ug/L	99
106) Benzyl Chloride	7.584	126	22778	35.75	ug/L	97
107) 1,2-Dichlorobenzene	7.714	146	94083	35.74	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42432.d
Acq On : 27 Dec 2022 12:45 pm
Operator : joannel
Sample : CC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 27 23:32:49 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration

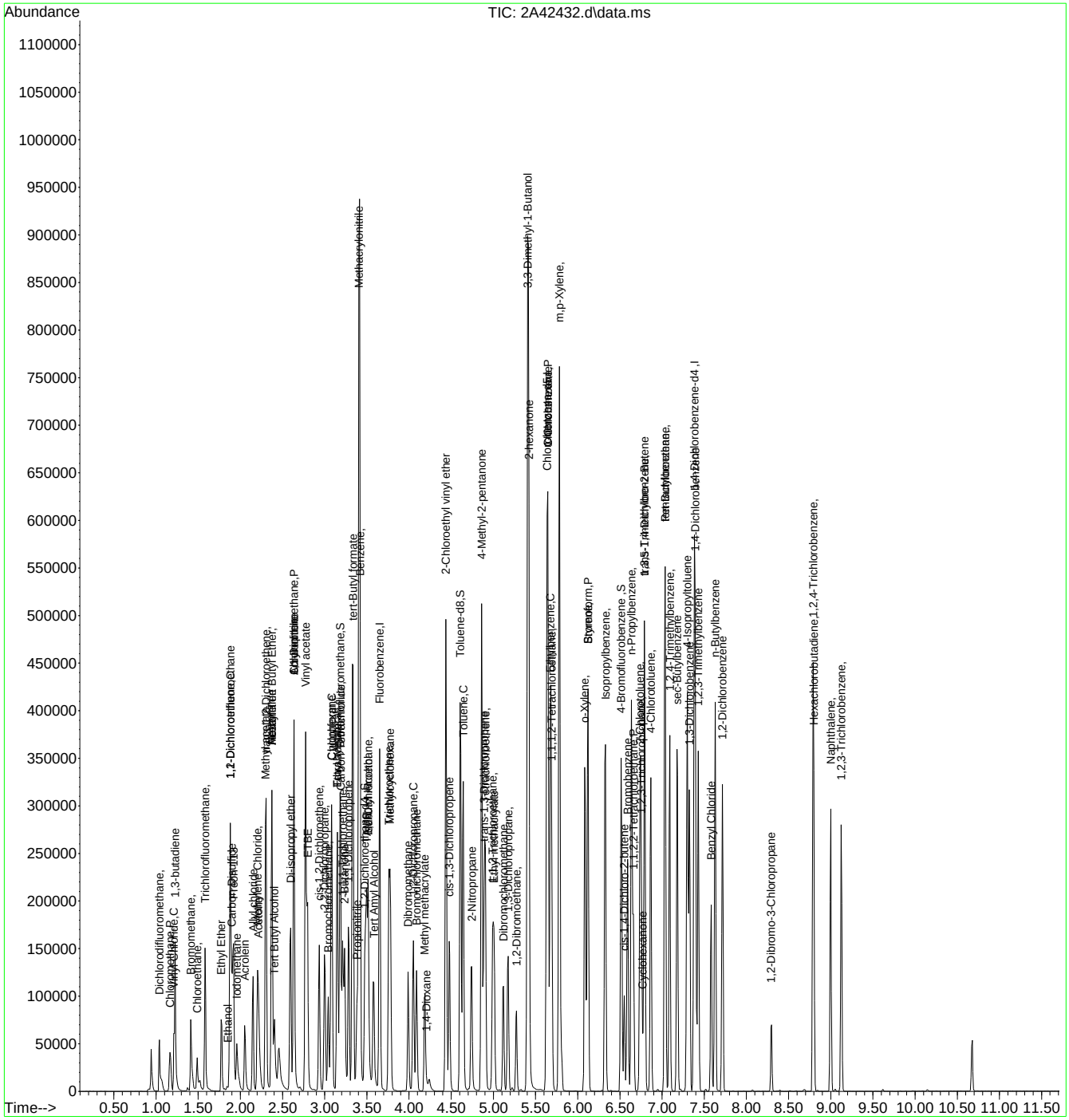
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	8.292	75	11294	33.42	ug/L	95
109) Hexachlorobutadiene	8.800	225	33137	32.24	ug/L	98
110) 1,2,4-Trichlorobenzene	8.792	180	61089	35.32	ug/L	97
111) Naphthalene	9.000	128	152896	35.14	ug/L	99
112) 1,2,3-Trichlorobenzene	9.123	180	58191	35.27	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42432.d
Acq On : 27 Dec 2022 12:45 pm
Operator : joannel
Sample : CC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 27 23:32:49 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration



Manual Integration Approval Summary

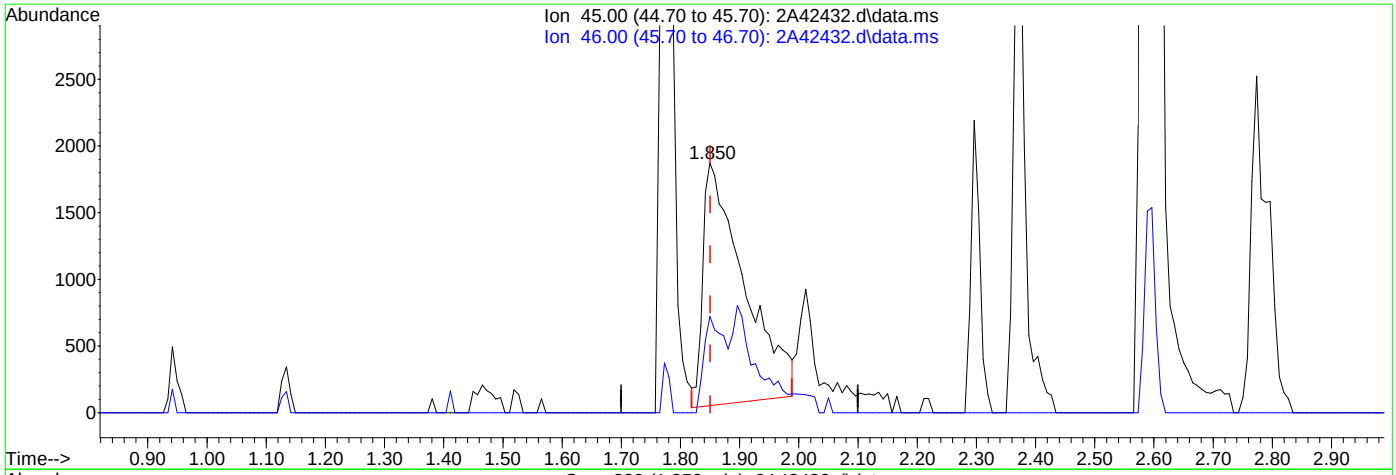
Sample Number: V2A1682-CC1677 **Method:** SW846 8260D
Lab FileID: 2A42432.D **Analyst approved:** 12/27/22 23:37 Celine Celis
Injection Time: 12/27/22 12:45 **Supervisor approved:** 12/28/22 12:20 Neil Christiana

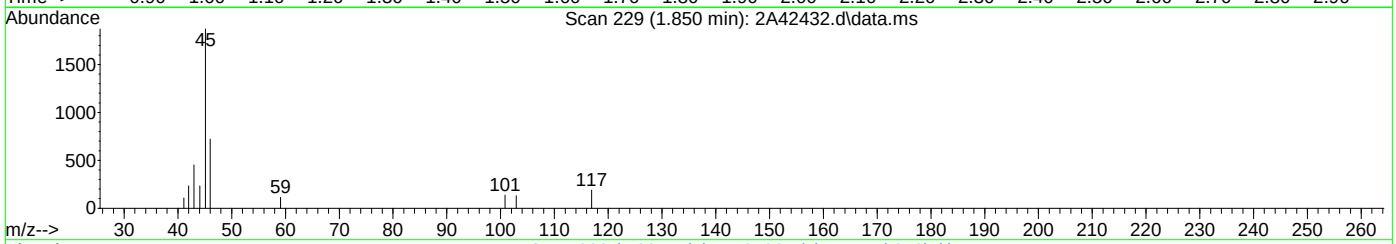
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.85	Poor instrument integration
Acetonitrile	75-05-8		2.37	Overlapping peak
Carbon Tetrachloride	56-23-5		3.19	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Overlapping peak
1-Chlorohexane	544-10-5		5.64	Overlapping peak
Ethylbenzene	100-41-4		5.67	Overlapping peak

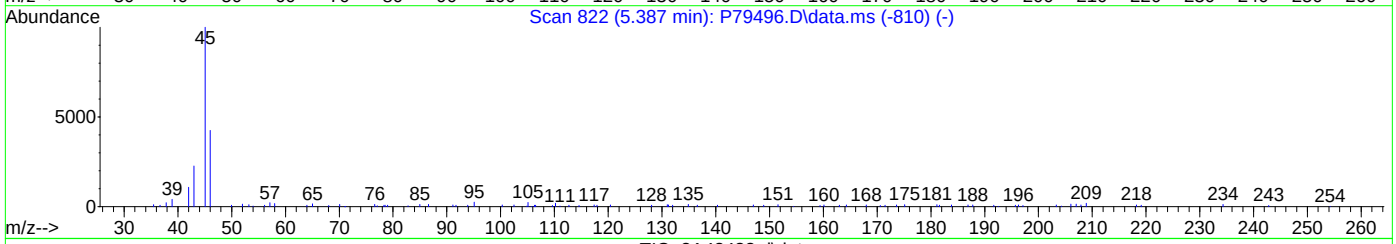
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42432.d
Acq On : 27 Dec 2022 12:45 pm
Operator : joannel
Sample : CC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 27 22:52:02 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration







TIC: 2A42432.d\data.ms

(10) Ethanol

1.850min (-0.000) 751.63ug/L

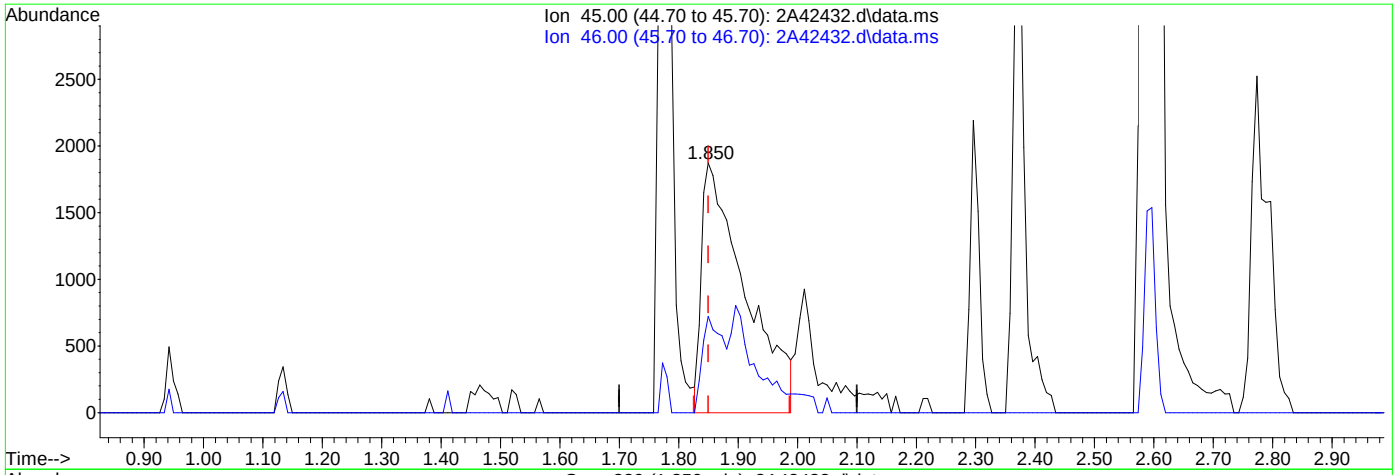
response 8770

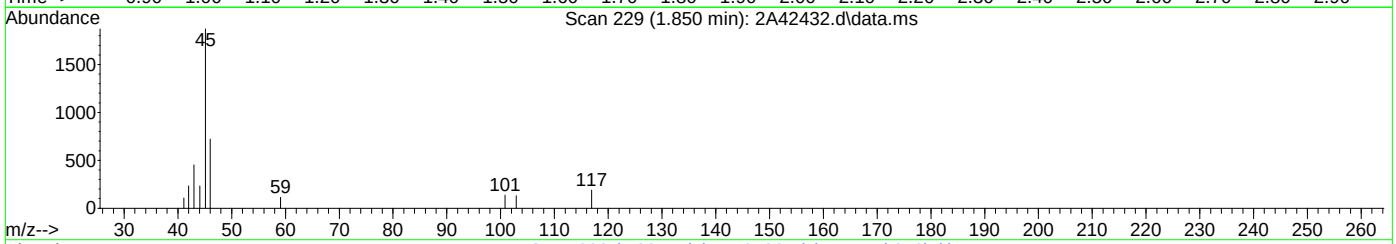
Ion	Exp%	Act%
45.00	100	100
46.00	38.40	42.75
0.00	0.00	0.00
0.00	0.00	0.00

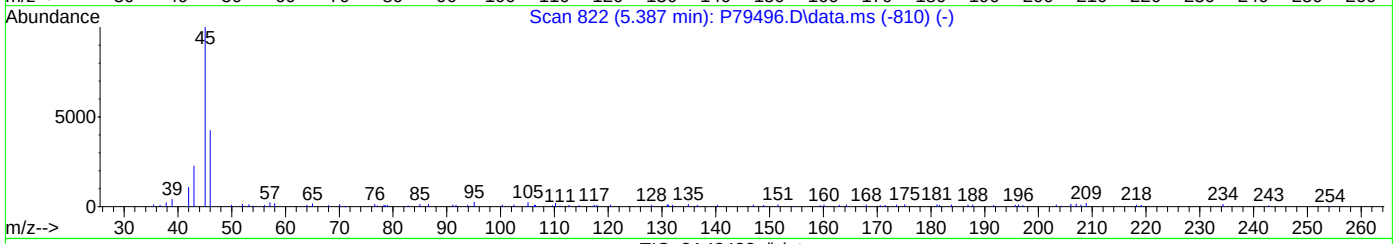
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42432.d
Acq On : 27 Dec 2022 12:45 pm
Operator : joannel
Sample : CC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 27 22:52:02 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration







TIC: 2A42432.d\data.ms

(10) Ethanol

1.850min (-0.000) 813.17ug/L m

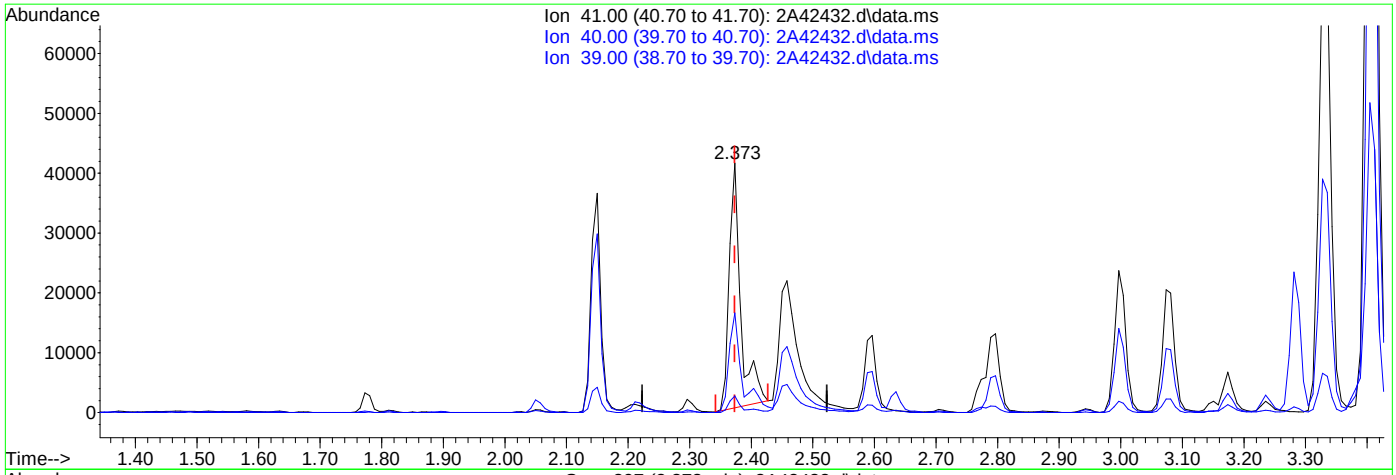
response 9488

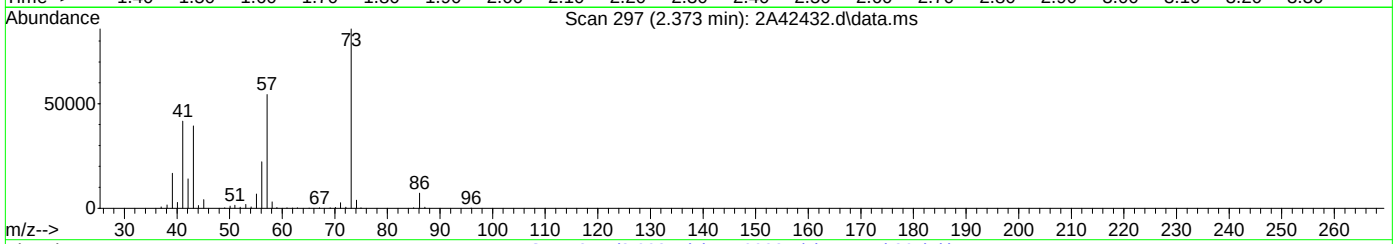
Ion	Exp%	Act%
45.00	100	100
46.00	38.40	38.55
0.00	0.00	0.00
0.00	0.00	0.00

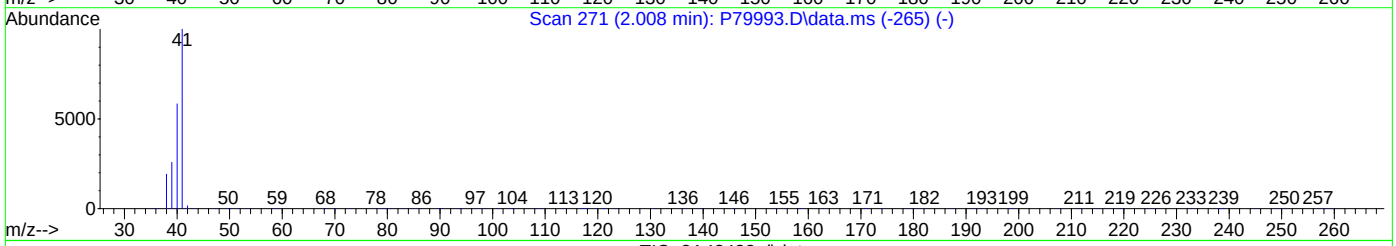
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42432.d
Acq On : 27 Dec 2022 12:45 pm
Operator : joannel
Sample : CC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 27 22:52:02 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration







TIC: 2A42432.d\data.ms

(24) Acetonitrile

2.373min (+0.000) 340.65ug/L

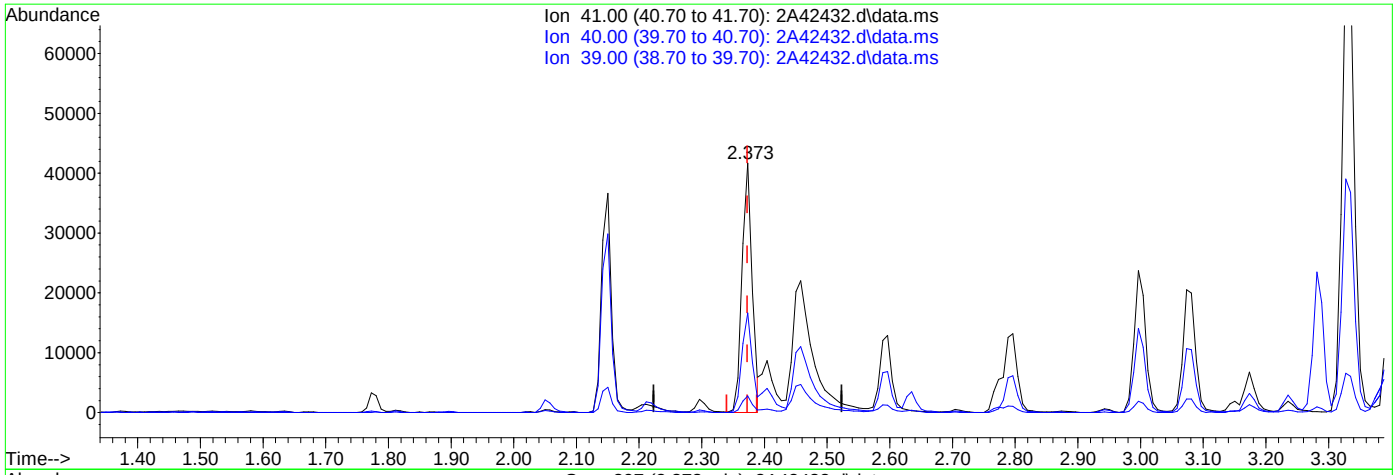
response 53688

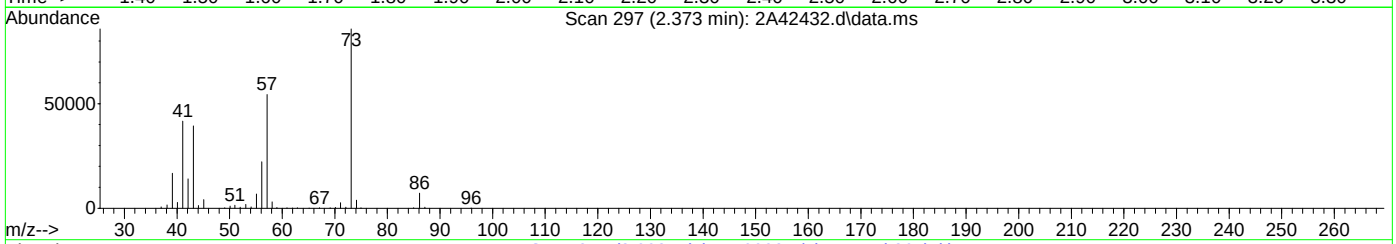
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.72
39.00	38.40	40.00
0.00	0.00	0.00

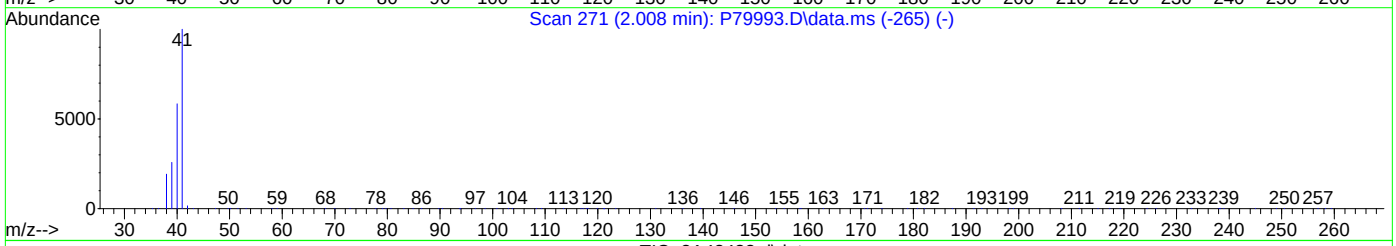
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42432.d
Acq On : 27 Dec 2022 12:45 pm
Operator : joannel
Sample : CC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 27 22:52:02 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration







TIC: 2A42432.d\data.ms

(24) Acetonitrile

2.373min (+0.000) 299.61ug/L m

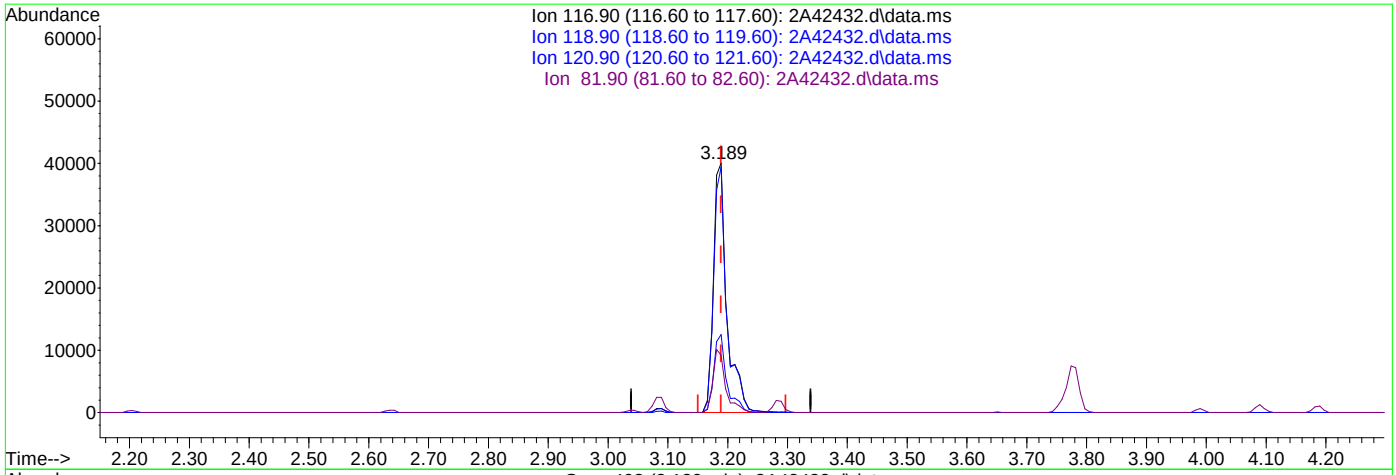
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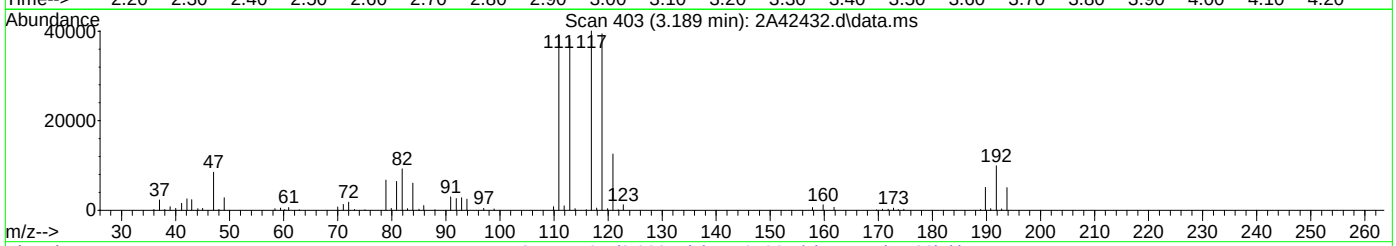
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.70
39.00	38.40	39.90
0.00	0.00	0.00

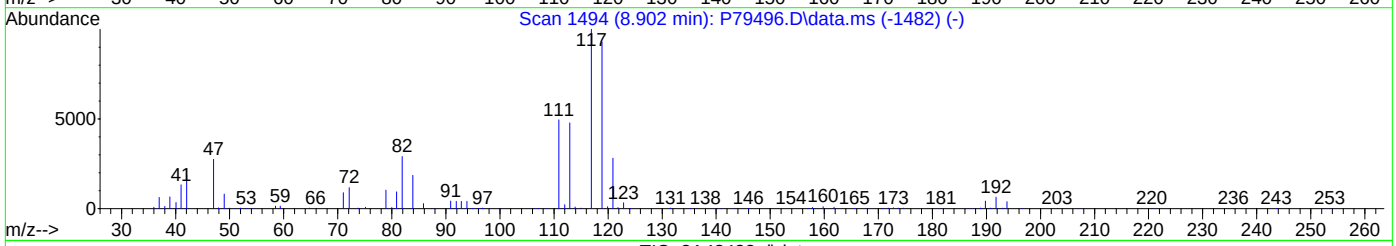
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42432.d
Acq On : 27 Dec 2022 12:45 pm
Operator : joannel
Sample : CC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 27 22:52:02 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration







TIC: 2A42432.d\data.ms

(40) Carbon Tetrachloride ( )

3.189min (-0.000) 41.11ug/L

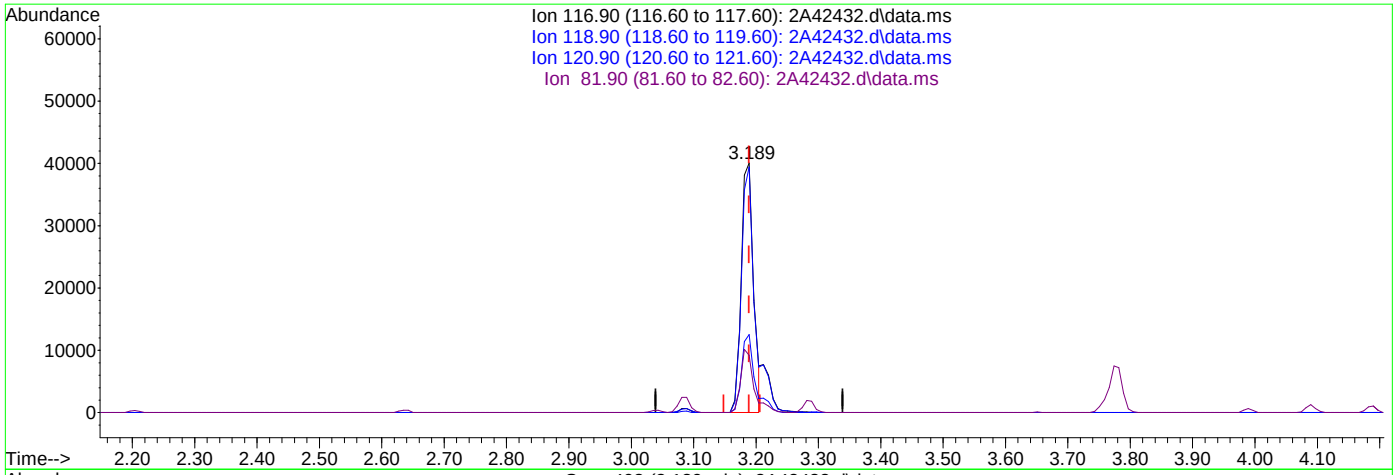
response 63103

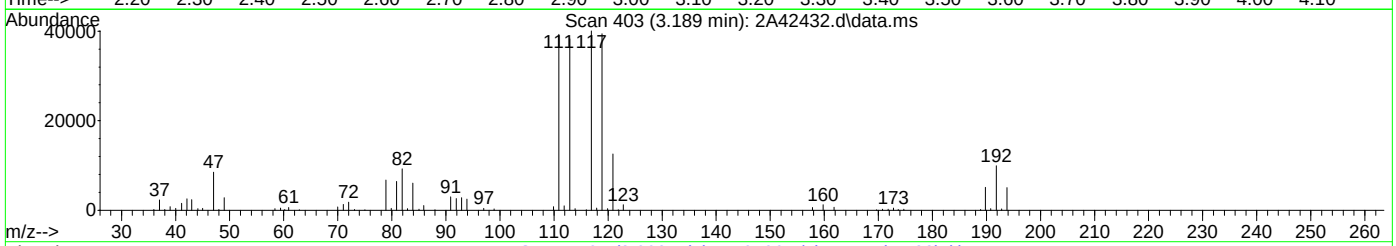
Ion	Exp%	Act%
116.90	100	100
118.90	97.20	98.38
120.90	30.70	31.28
81.90	24.80	22.97

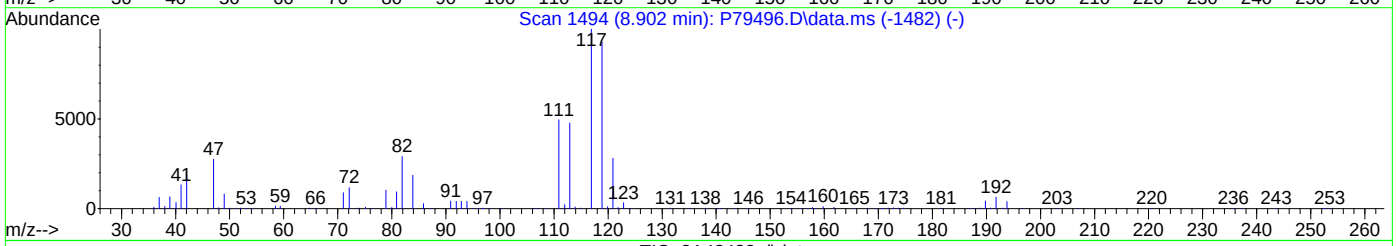
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42432.d
Acq On : 27 Dec 2022 12:45 pm
Operator : joannel
Sample : CC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 27 22:52:02 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration







TIC: 2A42432.d\data.ms

(40) Carbon Tetrachloride ( )

3.189min (-0.000) 35.79ug/L m

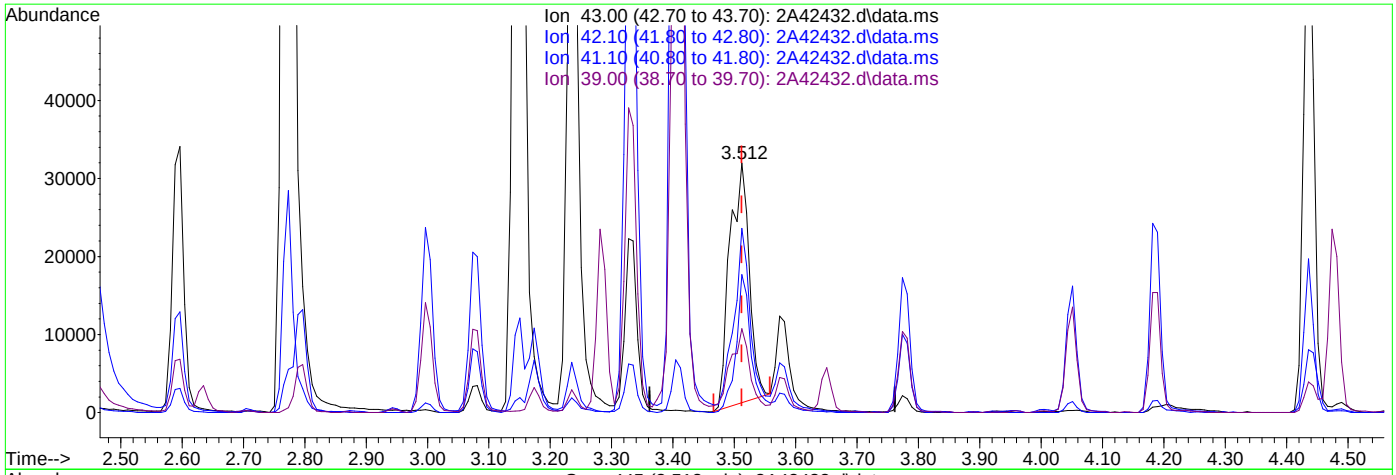
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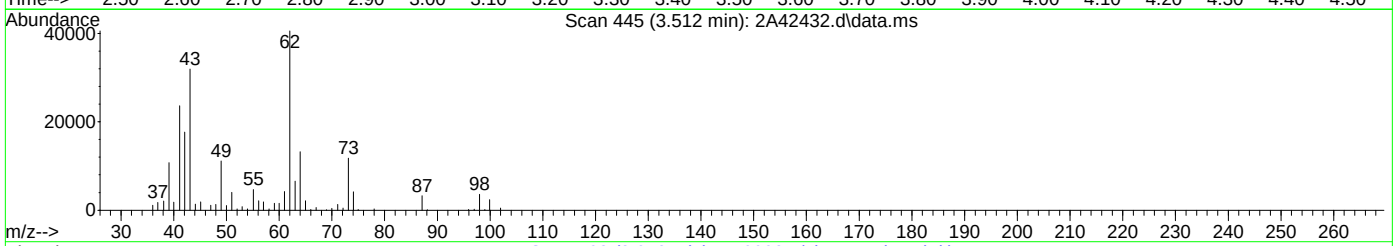
Ion	Exp%	Act%
116.90	100	100
118.90	97.20	98.38
120.90	30.70	31.28
81.90	24.80	22.97

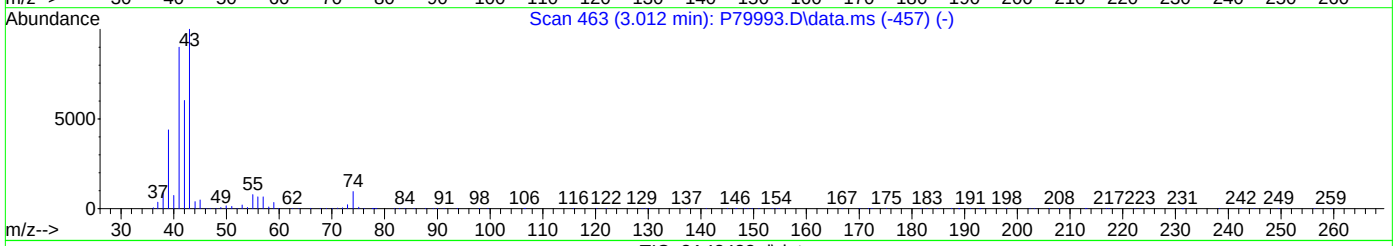
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42432.d
Acq On : 27 Dec 2022 12:45 pm
Operator : joannel
Sample : CC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 27 22:52:02 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration







TIC: 2A42432.d\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 1315.89ug/L

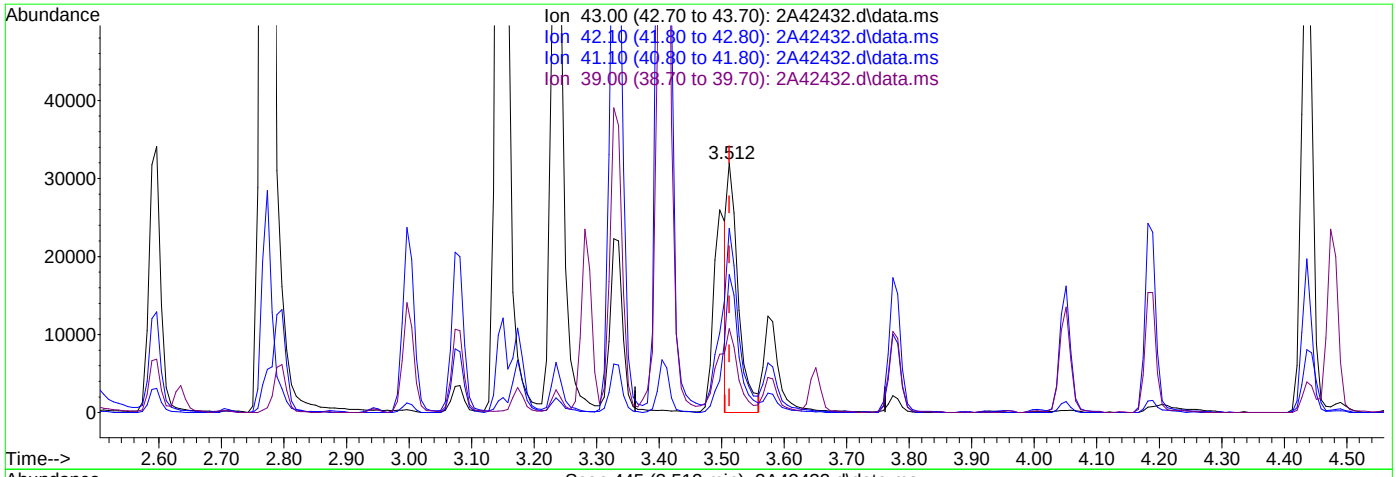
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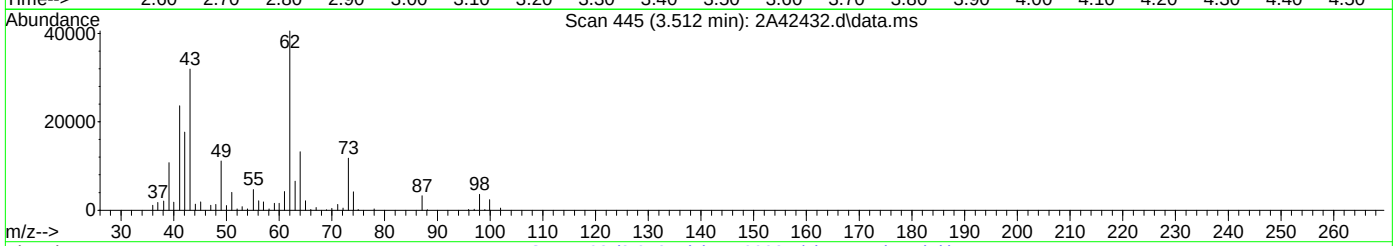
Ion	Exp%	Act%
43.00	100	100
42.10	53.70	55.50
41.10	71.30	71.02
39.00	30.90	30.98

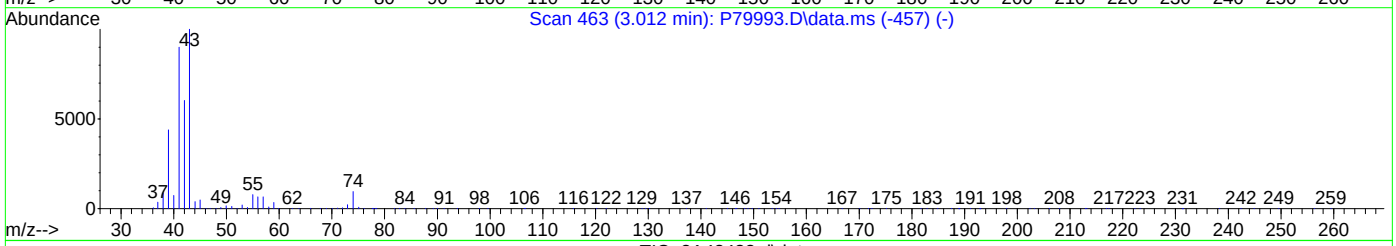
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42432.d
Acq On : 27 Dec 2022 12:45 pm
Operator : joannel
Sample : CC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 27 22:52:02 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration







TIC: 2A42432.d\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 780.27ug/L m

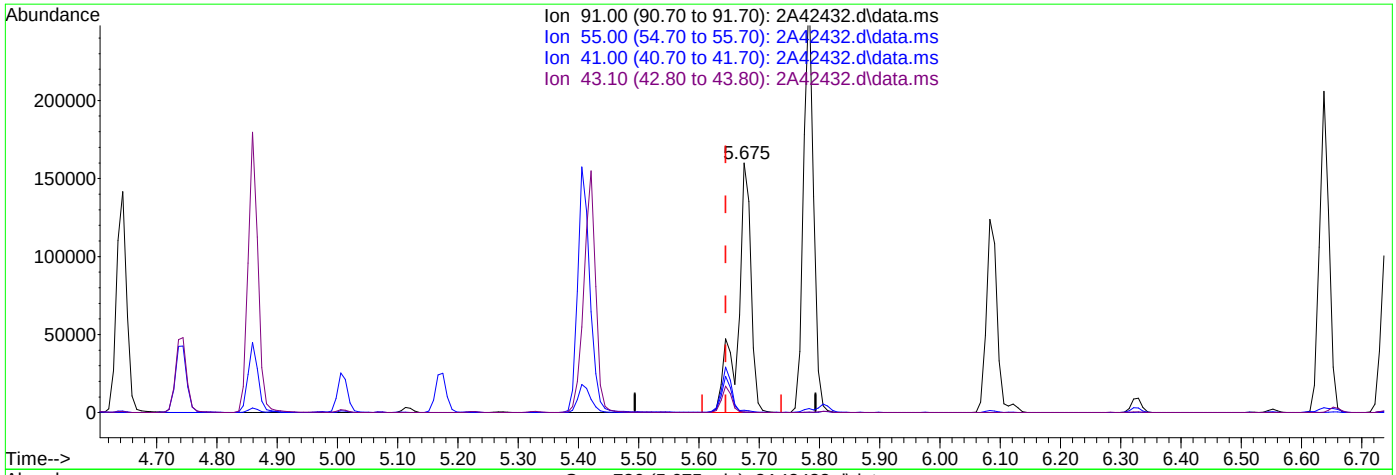
response 39558

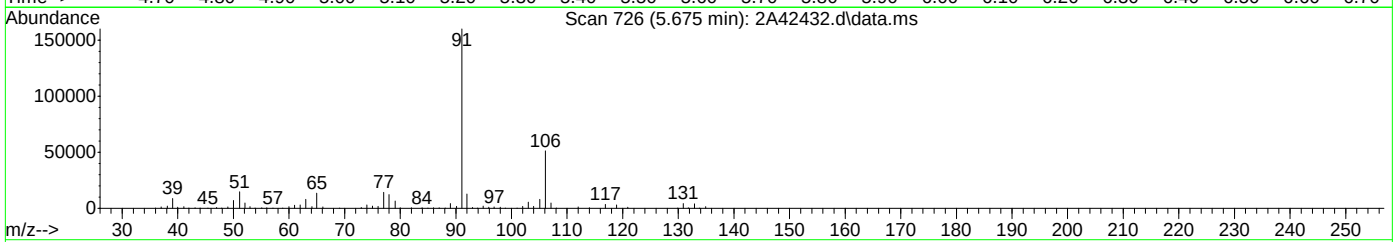
Ion	Exp%	Act%
43.00	100	100
42.10	53.70	55.29
41.10	71.30	73.82
39.00	30.90	33.62

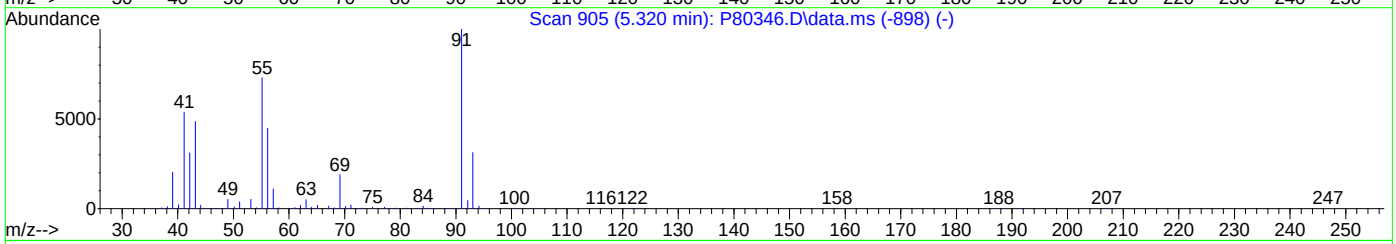
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42432.d
Acq On : 27 Dec 2022 12:45 pm
Operator : joannel
Sample : CC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 27 22:52:02 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration







TIC: 2A42432.d\data.ms

(76) 1-Chlorohexane

5.675min (+0.031) 156.23ug/L

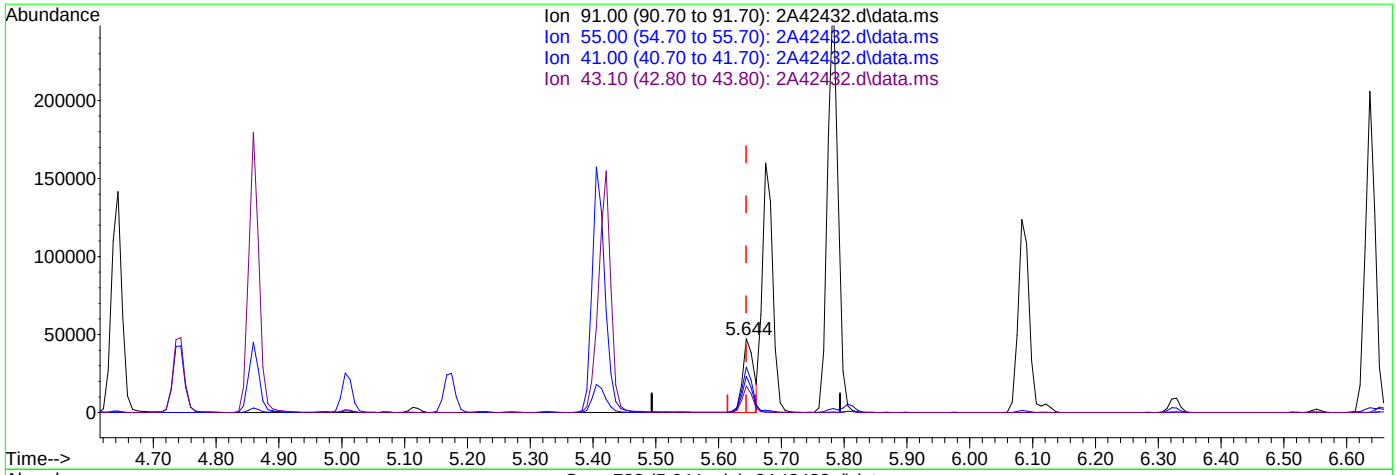
response 245710

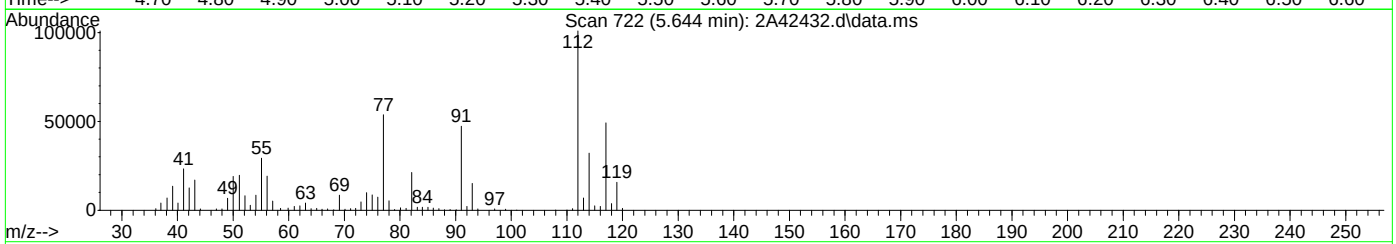
Ion	Exp%	Act%
91.00	100	100
55.00	64.00	0.17#
41.00	50.80	0.83#
43.10	38.80	0.24#

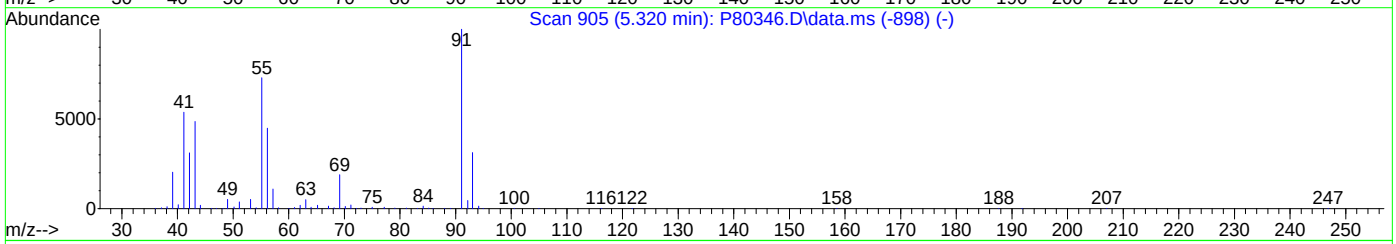
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42432.d
Acq On : 27 Dec 2022 12:45 pm
Operator : joannel
Sample : CC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 27 22:52:02 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration







TIC: 2A42432.d\data.ms

(76) 1-Chlorohexane

5.644min (+0.000) 36.35ug/L m

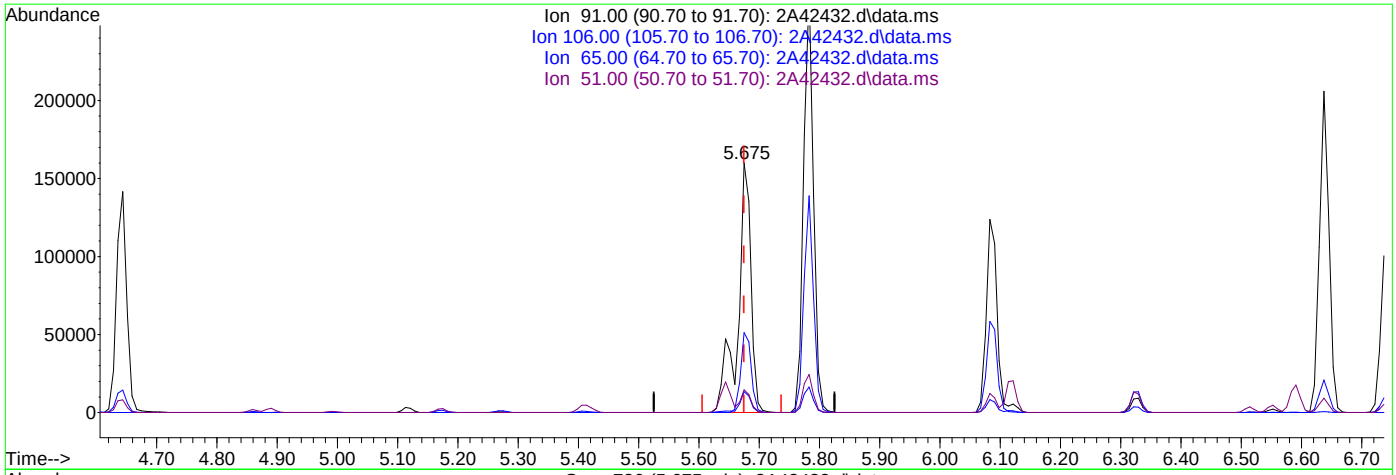
response 57418

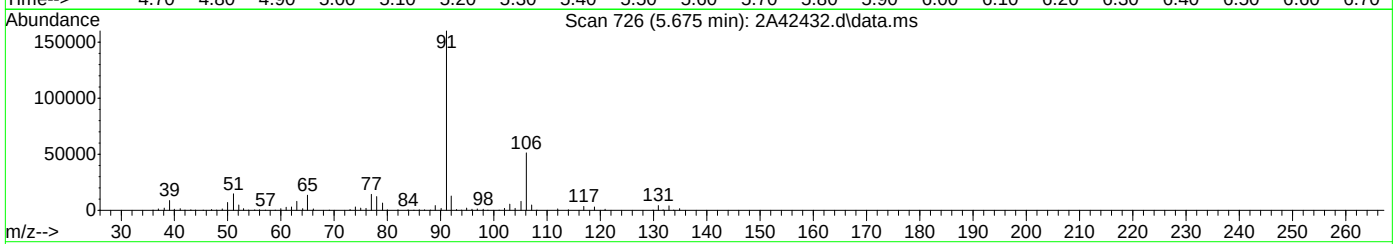
Ion	Exp%	Act%
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55.00	64.00	61.90
41.00	50.80	49.18
43.10	38.80	35.87

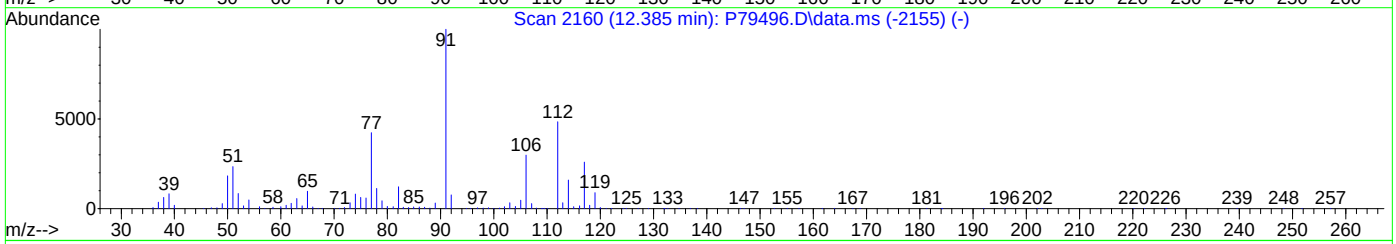
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42432.d
Acq On : 27 Dec 2022 12:45 pm
Operator : joannel
Sample : CC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 27 22:52:02 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration







TIC: 2A42432.d\data.ms

(77) Ethylbenzene (C)

5.675min (-0.000) 45.45ug/L

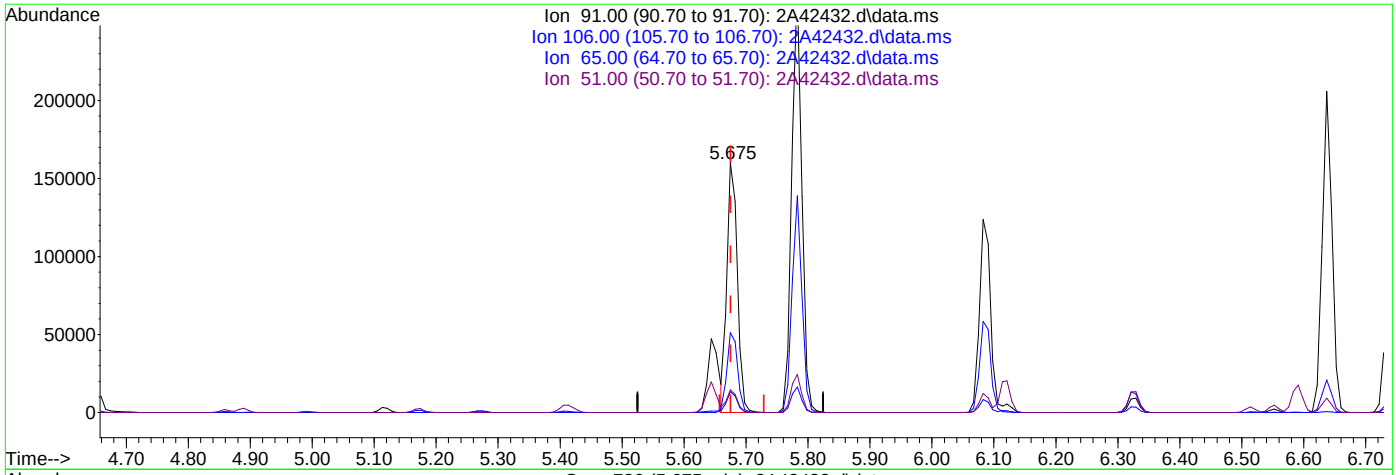
response 245710

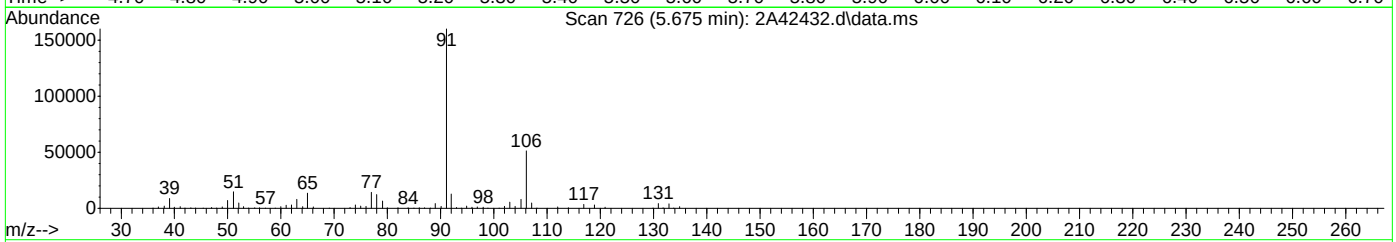
Ion	Exp%	Act%
91.00	100	100
106.00	31.80	32.00
65.00	8.80	8.38
51.00	9.50	9.09

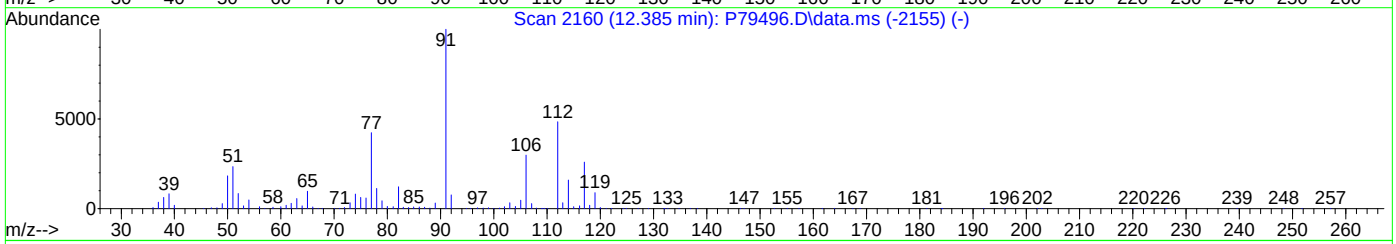
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42432.d
Acq On : 27 Dec 2022 12:45 pm
Operator : joannel
Sample : CC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 27 22:52:02 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration







TIC: 2A42432.d\data.ms

(77) Ethylbenzene (C)

5.675min (-0.000) 34.83ug/L m

response 188284

Ion	Exp%	Act%
91.00	100	100
106.00	31.80	32.00
65.00	8.80	8.38
51.00	9.50	9.09

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 12/28/22 12:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42450.d
Acq On : 27 Dec 2022 7:23 pm
Operator : joannel
Sample : ECC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 28 00:06:51 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.651	96	199886	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.636	117	161287	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.384	152	92547	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.181	113	58378	50.41	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.82%			
49) 1,2-Dichloroethane-d4	3.474	65	63661	48.68	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.36%			
63) Toluene-d8	4.613	98	197472	48.60	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.20%			
86) 4-Bromofluorobenzene	6.522	174	77487	49.78	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	49645	41.75	ug/L	98
3) Chloromethane	1.165	50	37295	38.00	ug/L	98
4) 1,3-butadiene	1.226	39	22237	32.70	ug/L	95
5) Vinyl Chloride	1.211	62	42546	40.86	ug/L	100
6) Bromomethane	1.411	94	31963	46.32	ug/L	99
7) Chloroethane	1.488	64	21540	46.39	ug/L	98
8) Trichlorofluoromethane	1.580	101	74291	47.66	ug/L	99
9) Ethyl Ether	1.773	59	27871	37.36	ug/L	98
10) Ethanol	1.850	45	10780m	934.42	ug/L	
11) 1,2-Dichlorotrifluoroe...	1.873	67	45697	37.97	ug/L	98
12) 1,1-Dichloroethene	1.881	61	55241	38.43	ug/L	94
13) Freon 113	1.911	101	42553	39.54	ug/L	98
14) Carbon Disulfide	1.896	76	102683	37.08	ug/L	98
15) Iodomethane	1.958	142	47626	30.55	ug/L	100
16) Acrolein	2.050	56	40362	189.80	ug/L	97
17) Allyl chloride	2.150	41	39713	35.68	ug/L	93
18) Methylene Chloride	2.204	49	45532	38.94	ug/L	91
19) Acetone	2.212	43	67100	214.13	ug/L	99
20) Methyl acetate	2.296	43	150505	187.80	ug/L	100
21) trans-1,2-Dichloroethene	2.304	61	53235	37.83	ug/L	92
22) Hexane	2.373	56	30523	37.62	ug/L	97
23) Methyl Tert Butyl Ether	2.373	73	113237	39.06	ug/L	98
24) Acetonitrile	2.373	41	54084m	347.07	ug/L	
25) Tert Butyl Alcohol	2.404	59	68277	336.25	ug/L	98
26) Di-isopropyl ether	2.589	45	94390	37.46	ug/L	98
27) Chloroprene	2.635	53	123805	38.86	ug/L	99
28) 1,1-Dichloroethane	2.635	63	67979	38.41	ug/L	98
29) Acrylonitrile	2.635	52	77368	194.70	ug/L	100
30) ETBE	2.796	59	111120	39.47	ug/L	97
31) Vinyl acetate	2.773	43	319835	190.96	ug/L	99
32) cis-1,2-Dichloroethene	2.935	96	45569	39.64	ug/L	94
33) 2,2-Dichloropropane	2.997	77	60773	36.39	ug/L	99
34) Bromochloromethane	3.043	128	23214	39.35	ug/L	87
35) Cyclohexane	3.081	56	58414	37.56	ug/L	95
36) Chloroform	3.081	83	79174	39.80	ug/L	98
37) Ethyl acetate	3.151	43	195045	188.05	ug/L	99
38) Tetrahydrofuran	3.151	42	28582	86.18	ug/L #	34
40) Carbon Tetrachloride	3.189	117	60841m	40.08	ug/L	
41) 1,1,1-Trichloroethane	3.212	97	68276	39.20	ug/L	98
42) 2-Butanone	3.235	43	105982	175.75	ug/L	96
43) 1,1-Dichloropropene	3.281	75	57822	39.55	ug/L	95
44) tert-Butyl formate	3.328	59	158070	185.21	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42450.d
Acq On : 27 Dec 2022 7:23 pm
Operator : joannel
Sample : ECC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 28 00:06:51 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Propionitrile	3.381	54	69750	425.53	ug/L	97
46) Methacrylonitrile	3.404	41	240051	395.12	ug/L	97
47) Benzene	3.420	78	165707	39.84	ug/L	94
48) TAME	3.497	73	110445	39.90	ug/L	99
50) 1,2-Dichloroethane	3.512	62	56923	39.38	ug/L	99
51) Isobutyl Alcohol	3.512	43	42221m	840.51	ug/L	
52) Tert Amyl Alcohol	3.582	59	55252	388.13	ug/L	99
53) Trichloroethene	3.759	95	47966	39.67	ug/L	95
54) Methylcyclohexane	3.782	83	70735	39.69	ug/L	98
55) Dibromomethane	3.989	93	29454	39.60	ug/L	99
56) 1,2-Dichloropropane	4.051	63	38819	38.07	ug/L	99
57) Bromodichloromethane	4.089	83	53656	38.70	ug/L	99
58) Methyl methacrylate	4.190	41	32742	37.77	ug/L	97
59) 1,4-Dioxane	4.205	88	12682	953.93	ug/L	97
60) 2-Chloroethyl vinyl ether	4.436	63	137294	181.41	ug/L	97
61) cis-1,3-Dichloropropene	4.482	75	63726	38.55	ug/L	94
64) Toluene	4.644	91	180633	38.10	ug/L	100
65) 2-Nitropropane	4.744	41	57205	183.29	ug/L	99
66) 4-Methyl-2-pentanone	4.859	43	206330	168.12	ug/L	100
67) trans-1,3-Dichloropropene	4.890	75	57242	38.86	ug/L	100
68) Tetrachloroethene	4.905	166	59271	42.45	ug/L	97
69) Ethyl methacrylate	5.013	69	51575	38.14	ug/L	91
70) 1,1,2-Trichloroethane	4.990	83	33872	40.05	ug/L	100
71) Dibromochloromethane	5.121	129	47550	40.57	ug/L	99
72) 1,3-Dichloropropane	5.175	76	66540	39.49	ug/L	99
73) 1,2-Dibromoethane	5.275	107	45945	40.24	ug/L	100
74) 3,3-Dimethyl-1-Butanol	5.413	57	295864	1717.60	ug/L	99
75) 2-hexanone	5.421	43	206597	171.22	ug/L	95
76) 1-Chlorohexane	5.652	91	59360m	38.09	ug/L	
77) Ethylbenzene	5.683	91	205138m	38.46	ug/L	
78) Chlorobenzene	5.644	112	123730	39.14	ug/L	100
79) 1,1,1,2-Tetrachloroethane	5.690	131	45007	40.84	ug/L	99
80) m,p-Xylene	5.783	91	324601	76.01	ug/L	99
81) o-Xylene	6.091	91	165729	38.24	ug/L	97
82) Styrene	6.121	104	132878	39.33	ug/L	99
83) Bromoform	6.121	173	32876	40.12	ug/L	99
84) Isopropylbenzene	6.329	105	208132	39.17	ug/L	100
87) cis-1,4-Dichloro-2-butene	6.552	53	14226	30.21	ug/L	93
88) n-Propylbenzene	6.637	91	243282	37.03	ug/L	100
89) Bromobenzene	6.591	156	58126	38.57	ug/L	95
90) 1,1,2,2-Tetrachloroethane	6.660	83	58358	37.99	ug/L	99
91) 1,3,5-Trimethylbenzene	6.791	105	179936	38.24	ug/L	99
92) 2-Chlorotoluene	6.745	91	139652	37.32	ug/L	95
93) trans-1,4-Dichloro-2-B...	6.791	53	16546	31.59	ug/L	95
94) 1,2,3-Trichloropropane	6.760	110	18662	38.68	ug/L	91
95) Cyclohexanone	6.776	55	10382	194.73	ug/L	95
96) 4-Chlorotoluene	6.868	91	144199	37.01	ug/L	100
97) tert-Butylbenzene	7.037	91	98379	36.90	ug/L	100
98) 1,2,4-Trimethylbenzene	7.091	105	171025	38.87	ug/L	99
99) Pentachloroethane	7.037	167	28662	39.07	ug/L	95
100) sec-Butylbenzene	7.183	105	217590	37.62	ug/L	98
101) 4-Isopropyltoluene	7.299	119	192560	38.24	ug/L	99
102) 1,3-Dichlorobenzene	7.330	146	106332	38.83	ug/L	97
103) 1,2,3-Trimethylbenzene	7.430	105	164578	38.91	ug/L	99
104) 1,4-Dichlorobenzene	7.399	146	108244	38.82	ug/L	94
105) n-Butylbenzene	7.630	92	91591	37.57	ug/L	99
106) Benzyl Chloride	7.584	126	21598	34.68	ug/L	98
107) 1,2-Dichlorobenzene	7.714	146	99983	38.87	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42450.d
Acq On : 27 Dec 2022 7:23 pm
Operator : joannel
Sample : ECC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 28 00:06:51 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration

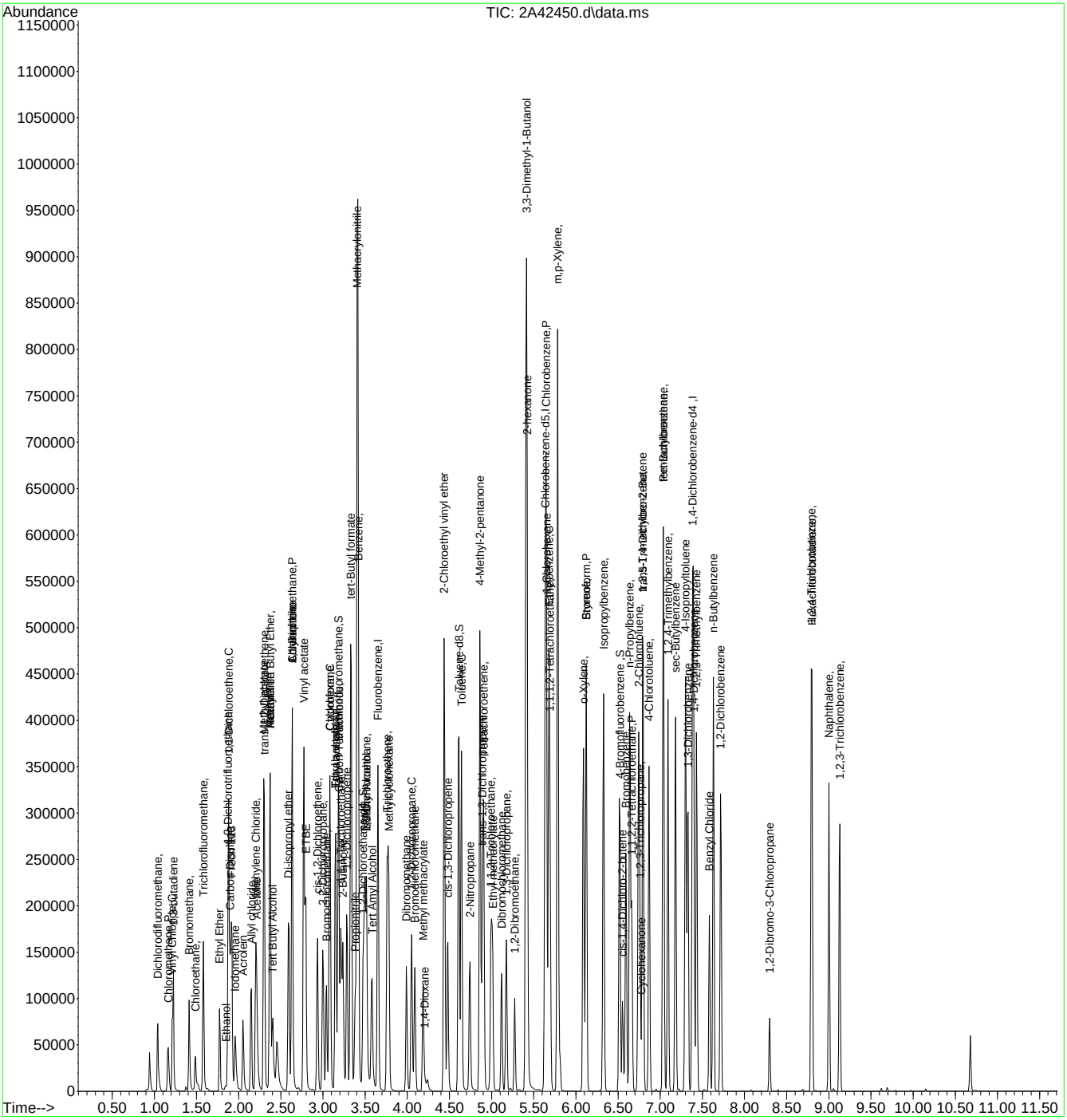
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	8.299	75	11993	36.31	ug/L	#	75
109) Hexachlorobutadiene	8.800	225	37364	37.19	ug/L		95
110) 1,2,4-Trichlorobenzene	8.792	180	66828	39.53	ug/L		98
111) Naphthalene	9.000	128	171992	40.44	ug/L		100
112) 1,2,3-Trichlorobenzene	9.131	180	65031	40.33	ug/L		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42450.d
Acq On : 27 Dec 2022 7:23 pm
Operator : joannel
Sample : ECC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 28 00:06:51 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration



Manual Integration Approval Summary

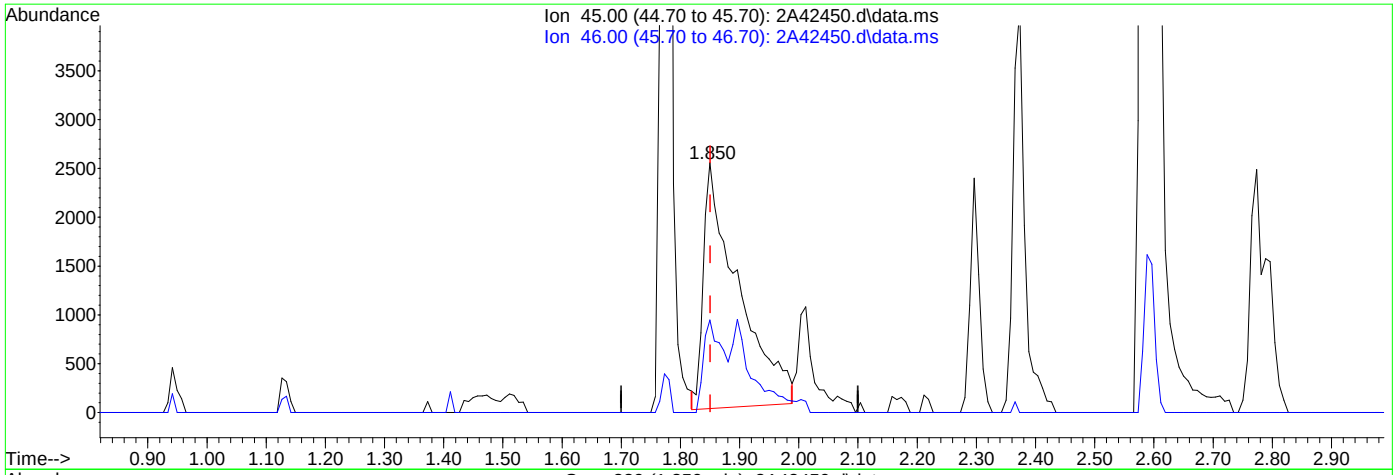
Sample Number: V2A1682-ECC1677 **Method:** SW846 8260D
Lab FileID: 2A42450.D **Analyst approved:** 12/28/22 00:11 Celine Celis
Injection Time: 12/27/22 19:23 **Supervisor approved:** 12/28/22 12:20 Neil Christiana

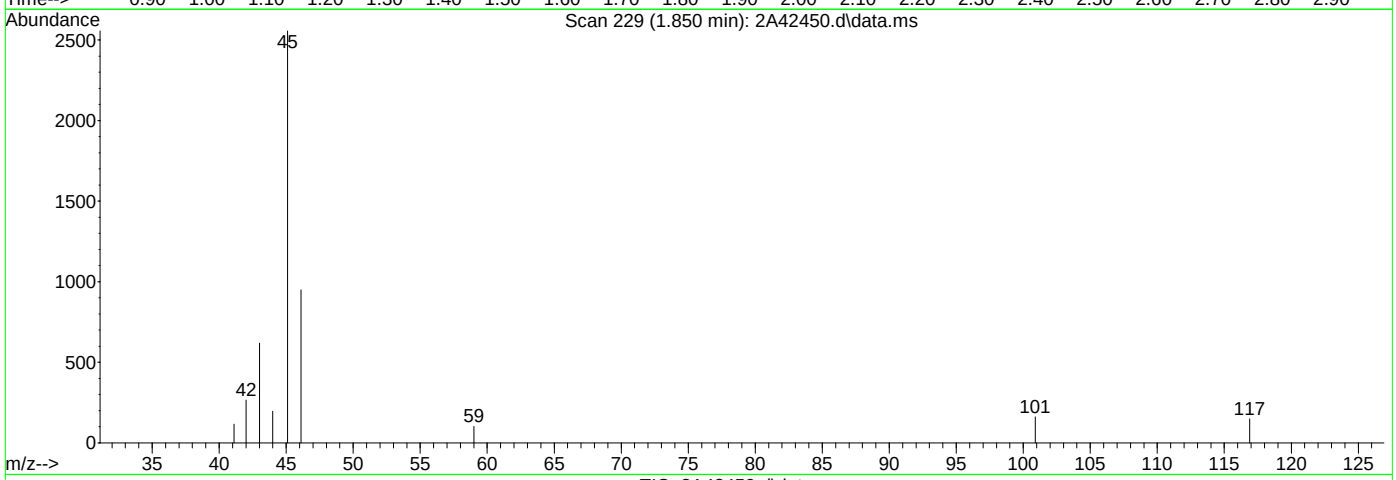
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.85	Poor instrument integration
Acetonitrile	75-05-8		2.37	Overlapping peak
Carbon Tetrachloride	56-23-5		3.19	Overlapping peak
Isobutyl Alcohol	78-83-1		3.51	Overlapping peak
1-Chlorohexane	544-10-5		5.65	Overlapping peak
Ethylbenzene	100-41-4		5.68	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42450.d
Acq On : 27 Dec 2022 7:23 pm
Operator : joannel
Sample : ECC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 27 22:53:12 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42450.d\data.ms

(10) Ethanol

1.850min (-0.000) 888.48ug/L

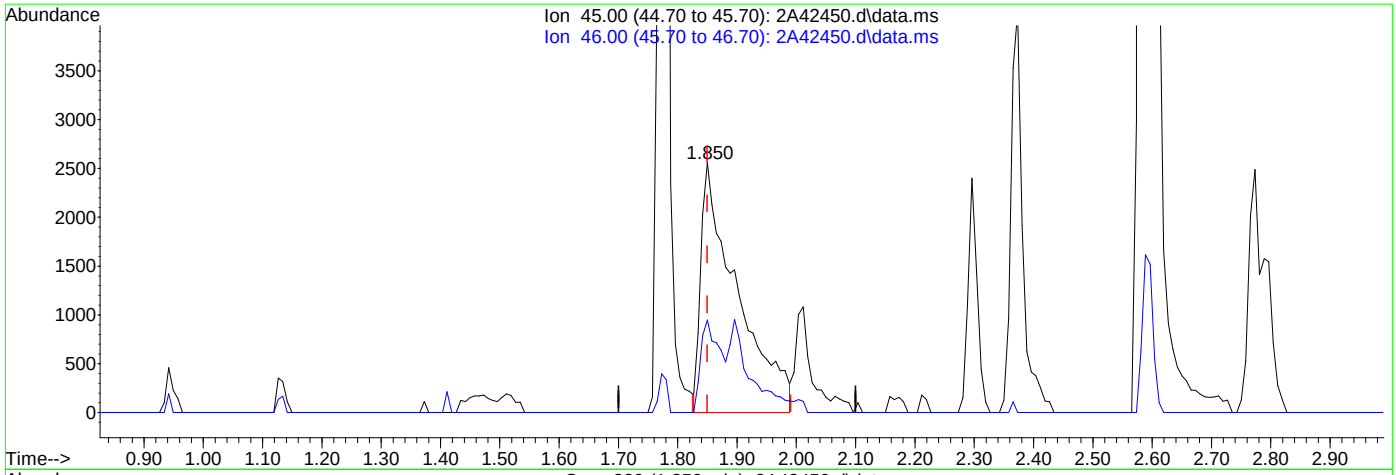
response 10250

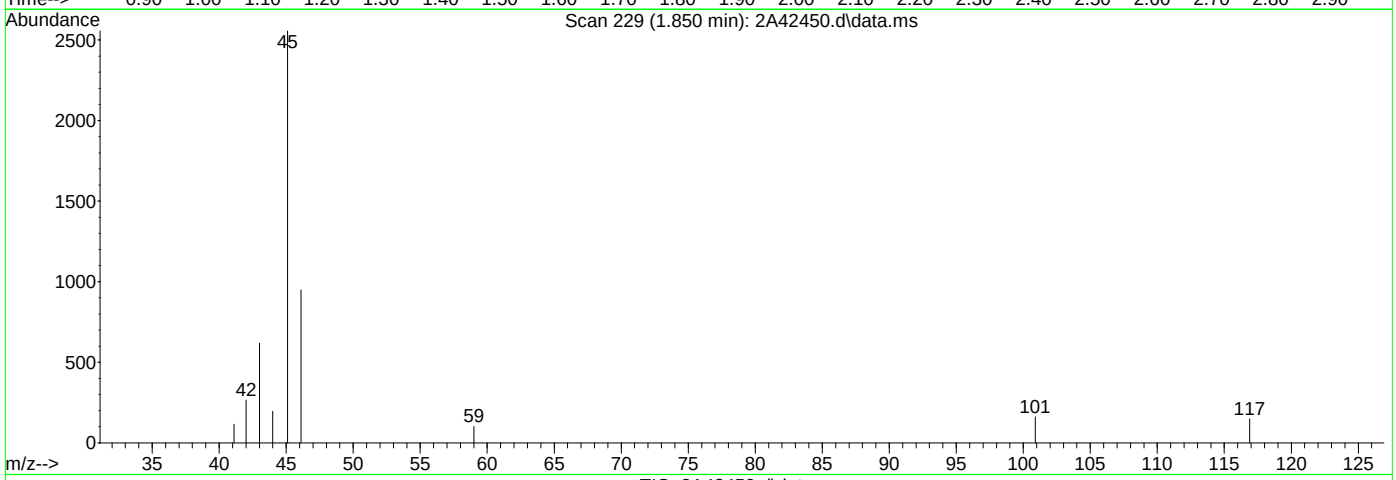
Ion	Exp%	Act%
45.00	100	100
46.00	38.40	40.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42450.d
Acq On : 27 Dec 2022 7:23 pm
Operator : joannel
Sample : ECC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 27 22:53:12 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42450.d\data.ms

(10) Ethanol

1.850min (-0.000) 934.42ug/L m

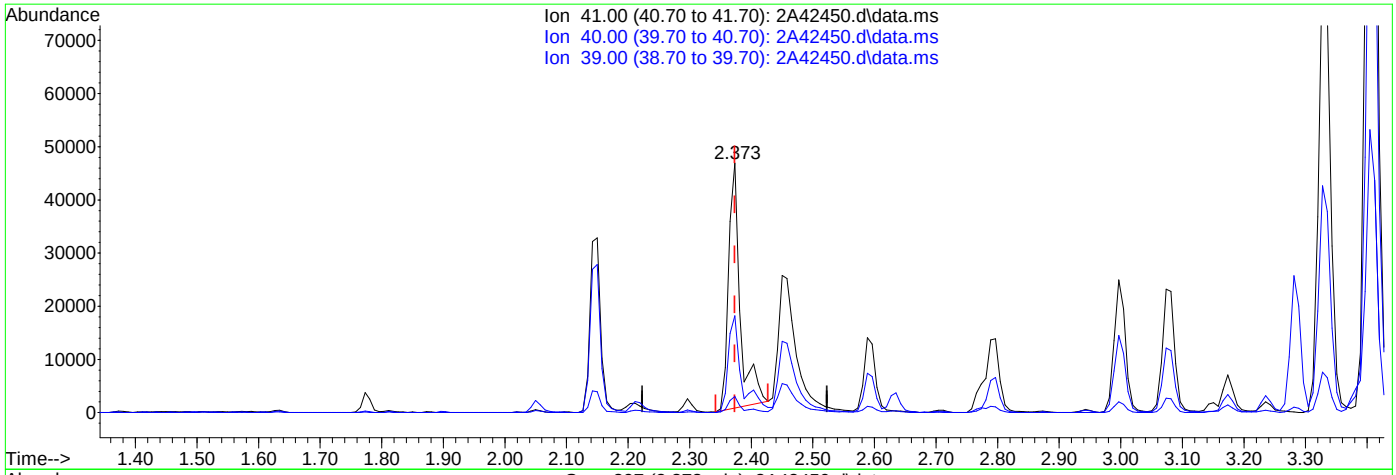
response 10780

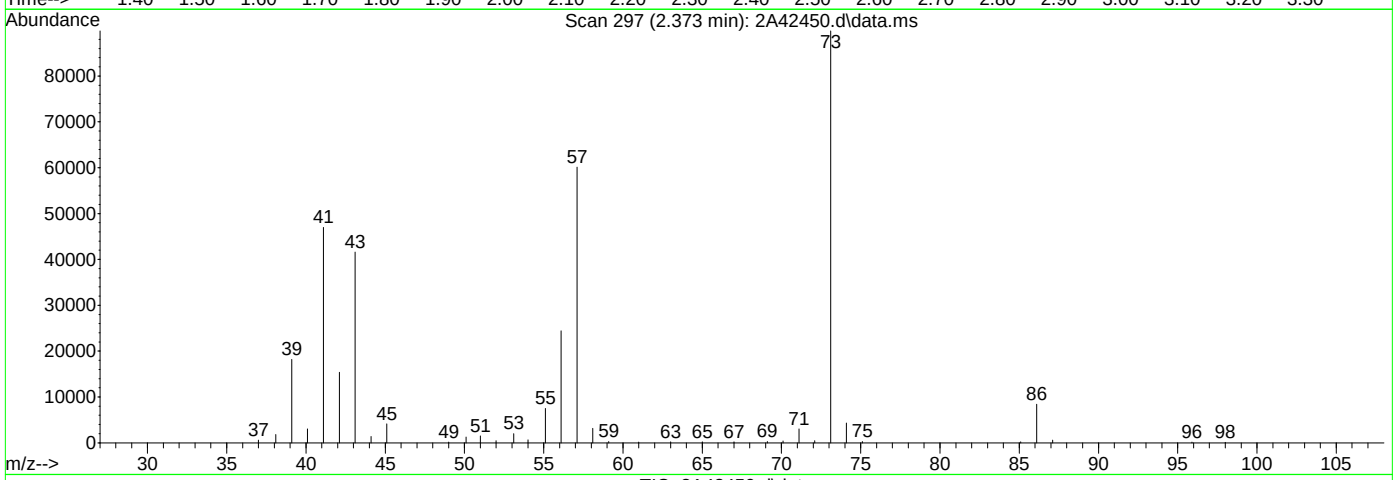
Ion	Exp%	Act%
45.00	100	100
46.00	38.40	37.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42450.d
Acq On : 27 Dec 2022 7:23 pm
Operator : joannel
Sample : ECC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 27 22:53:12 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42450.d\data.ms

(24) Acetonitrile

2.373min (+0.000) 390.72ug/L

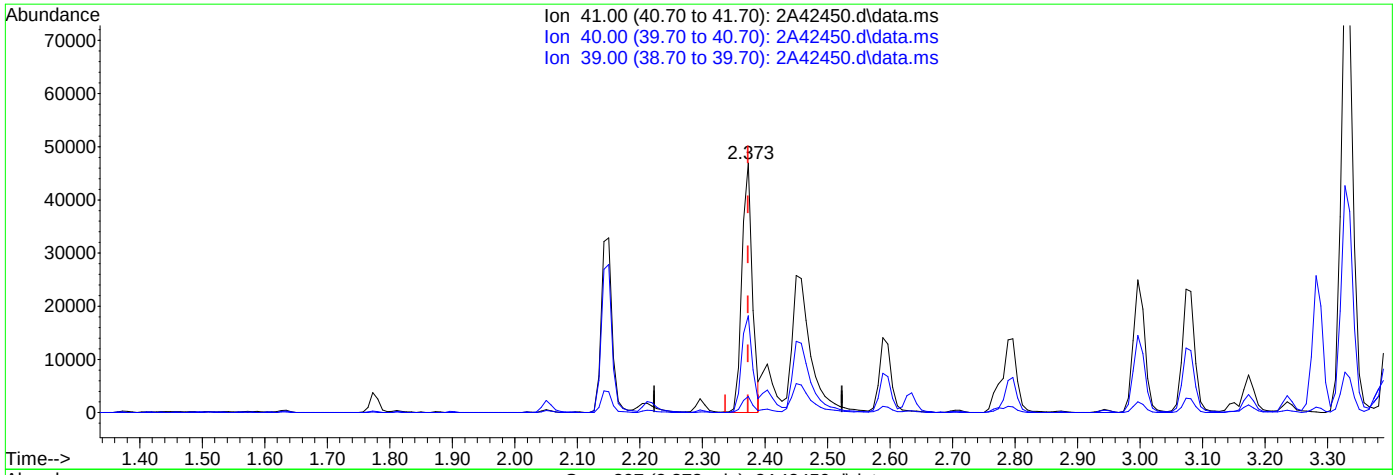
response 60885

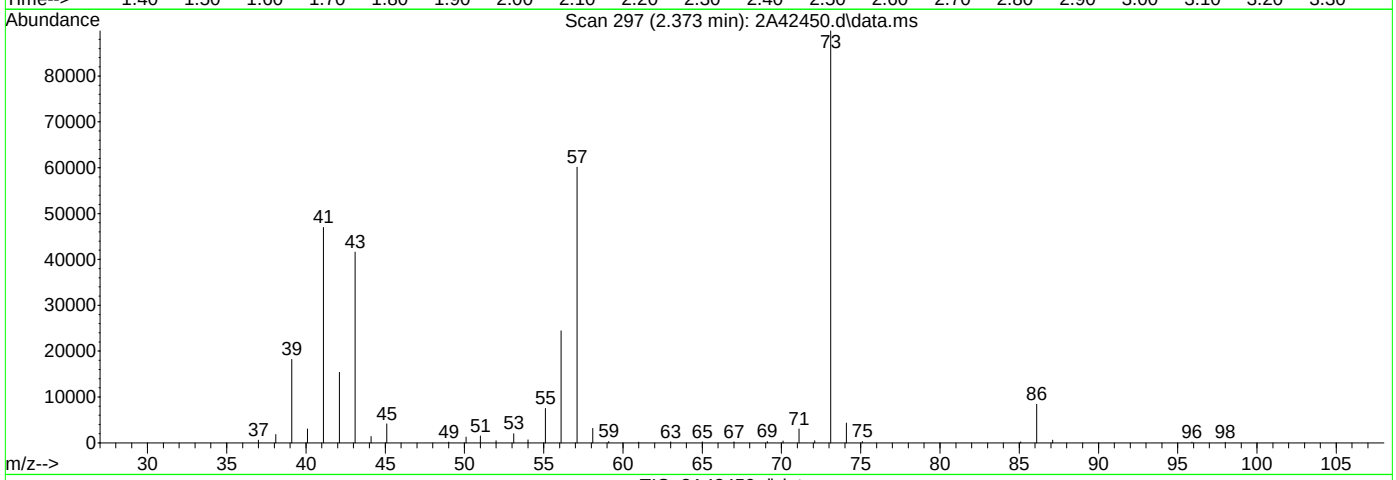
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.44
39.00	38.40	38.88
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42450.d
Acq On : 27 Dec 2022 7:23 pm
Operator : joannel
Sample : ECC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 27 22:53:12 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42450.d\data.ms

(24) Acetonitrile

2.373min (+0.000) 347.07ug/L m

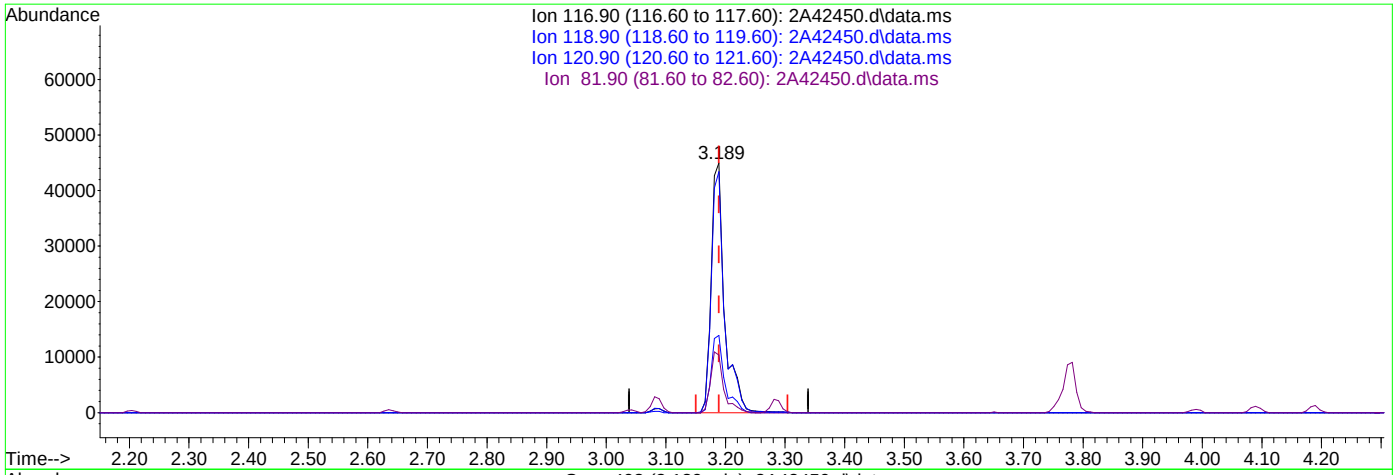
response 54084

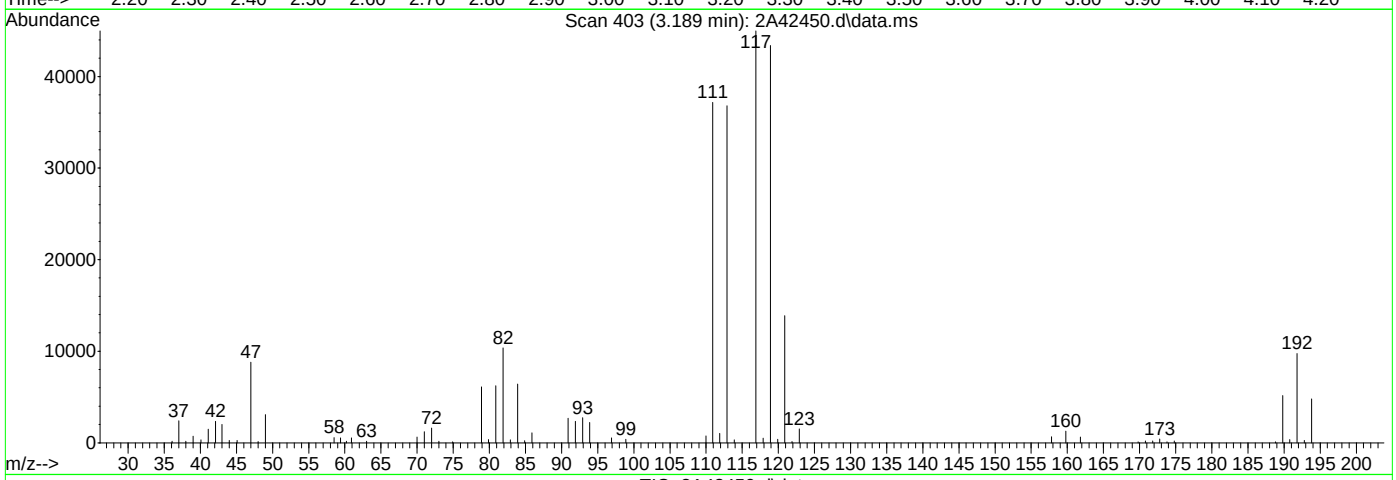
Ion	Exp%	Act%
41.00	100	100
40.00	6.40	6.43
39.00	38.40	38.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42450.d
Acq On : 27 Dec 2022 7:23 pm
Operator : joannel
Sample : ECC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 27 22:53:12 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42450.d\data.ms

(40) Carbon Tetrachloride ( )

3.189min (0.000) 46.01ug/L

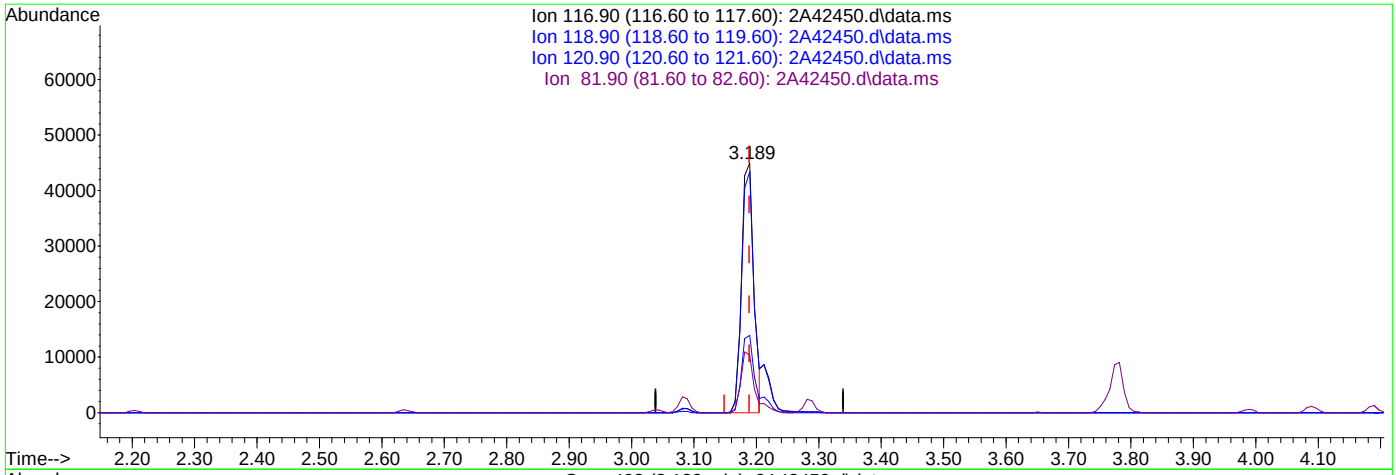
response 69832

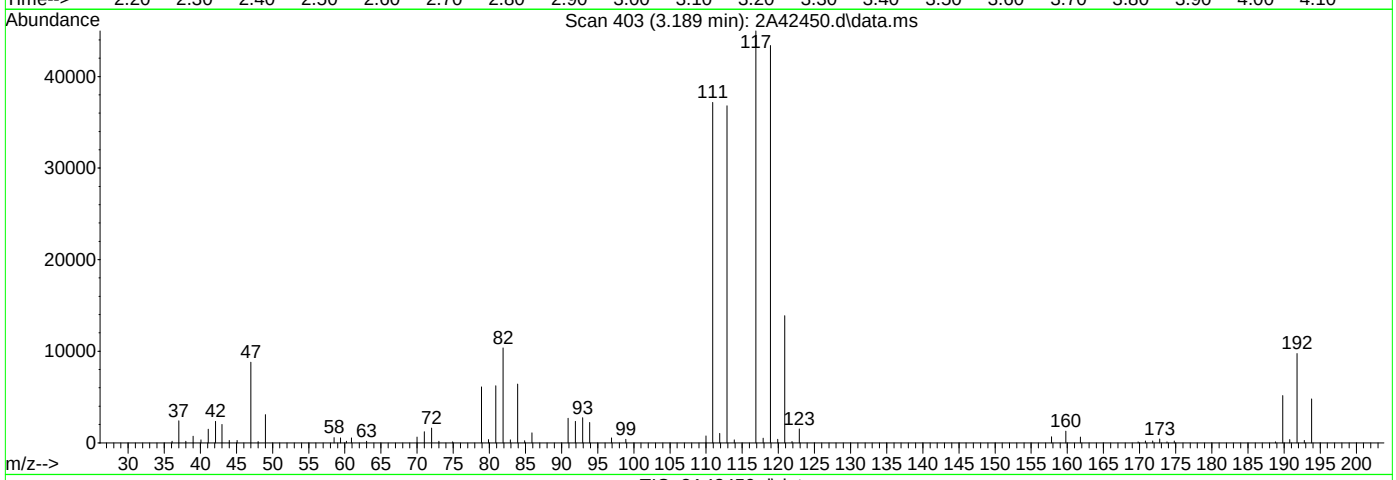
Ion	Exp%	Act%
116.90	100	100
118.90	97.20	96.43
120.90	30.70	30.88
81.90	24.80	23.02

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42450.d
Acq On : 27 Dec 2022 7:23 pm
Operator : joannel
Sample : ECC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 27 22:53:12 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42450.d\data.ms

(40) Carbon Tetrachloride ( )

3.189min (0.000) 40.08ug/L m

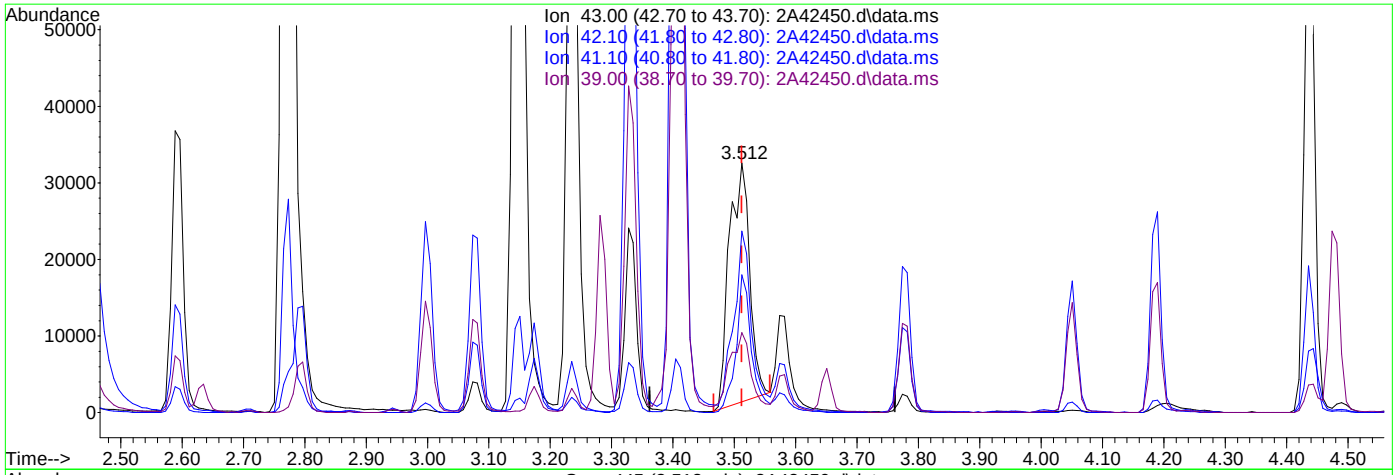
response 60841

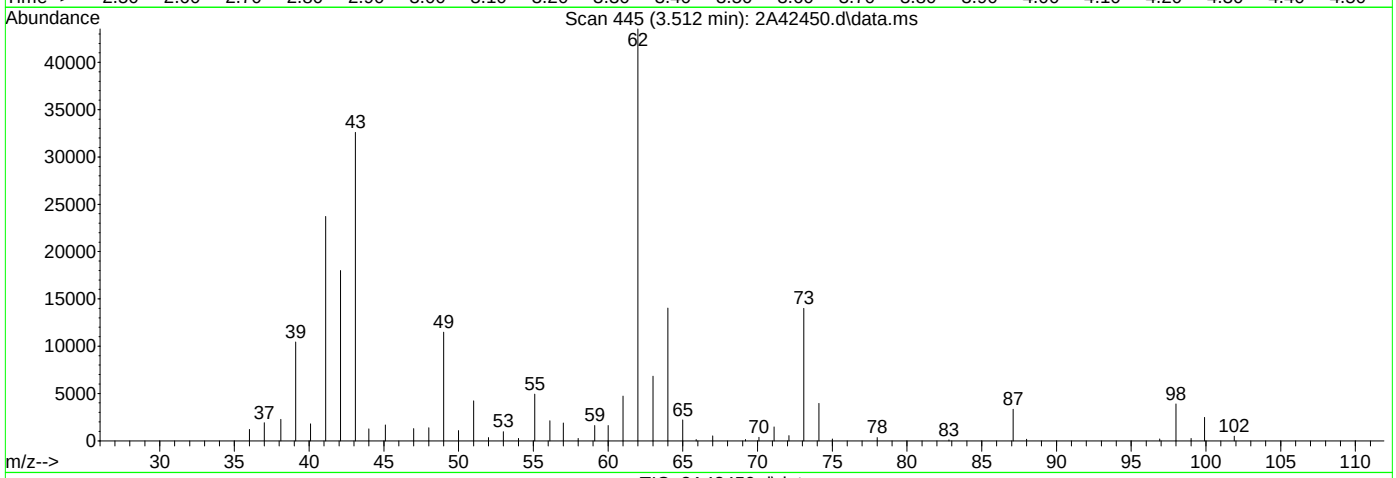
Ion	Exp%	Act%
116.90	100	100
118.90	97.20	96.43
120.90	30.70	30.88
81.90	24.80	23.02

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42450.d
Acq On : 27 Dec 2022 7:23 pm
Operator : joannel
Sample : ECC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 27 22:53:12 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42450.d\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 1410.99ug/L

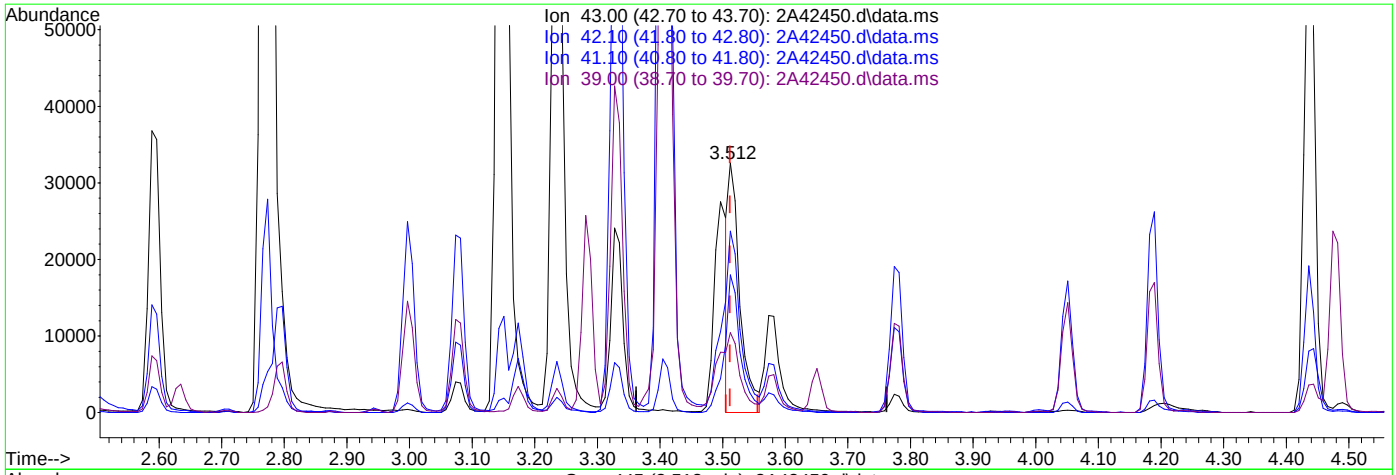
response 72286

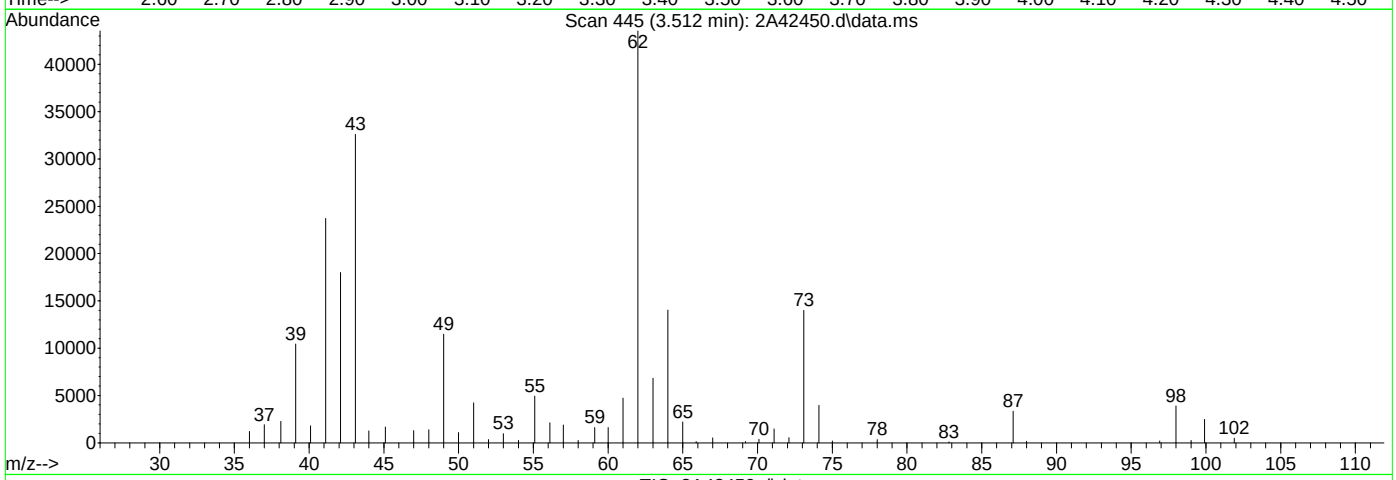
Ion	Exp%	Act%
43.00	100	100
42.10	53.70	55.45
41.10	71.30	69.93
39.00	30.90	29.73

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42450.d
Acq On : 27 Dec 2022 7:23 pm
Operator : joannel
Sample : ECC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 27 22:53:12 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42450.d\data.ms

(51) Isobutyl Alcohol

3.512min (+0.000) 840.51ug/L m

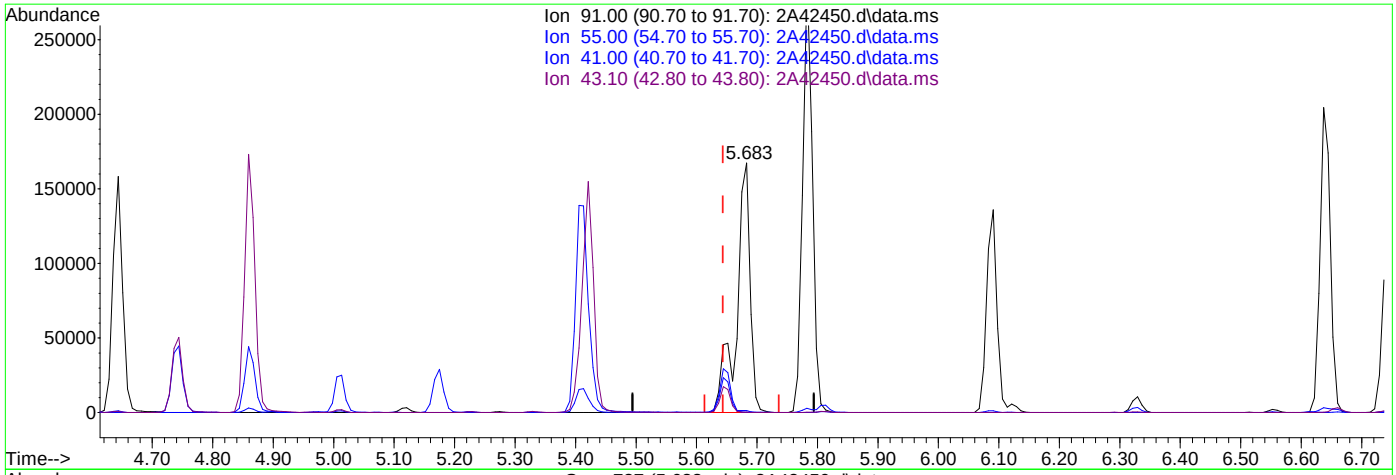
response 42221

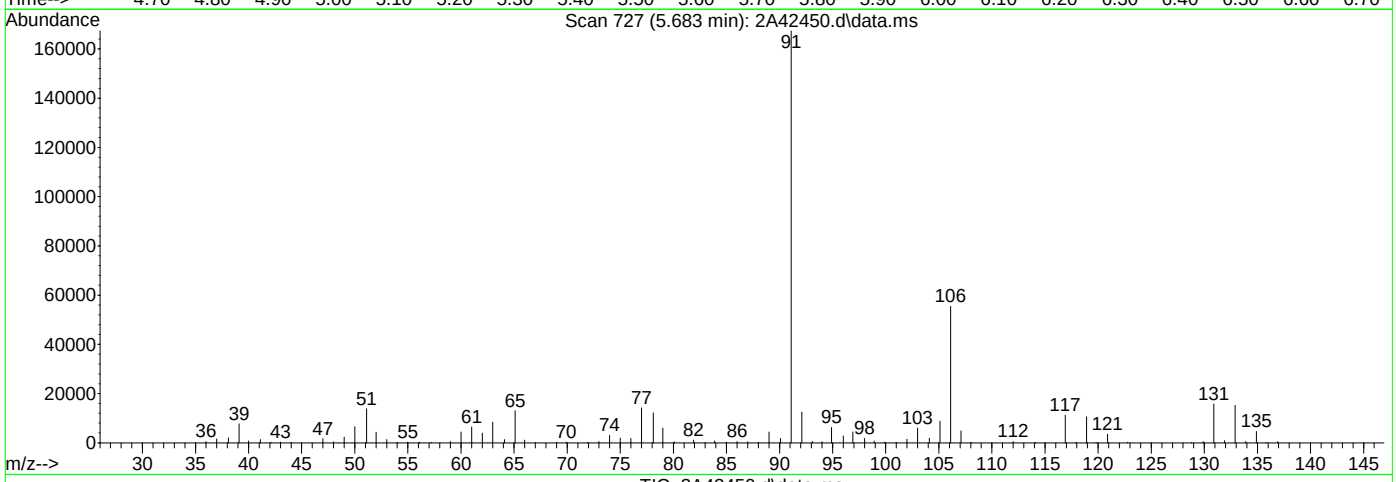
Ion	Exp%	Act%
43.00	100	100
42.10	53.70	55.20
41.10	71.30	72.69
39.00	30.90	32.02

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42450.d
Acq On : 27 Dec 2022 7:23 pm
Operator : joannel
Sample : ECC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 27 22:53:12 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42450.d\data.ms

(76) 1-Chlorohexane

5.683min (+0.039) 170.57ug/L

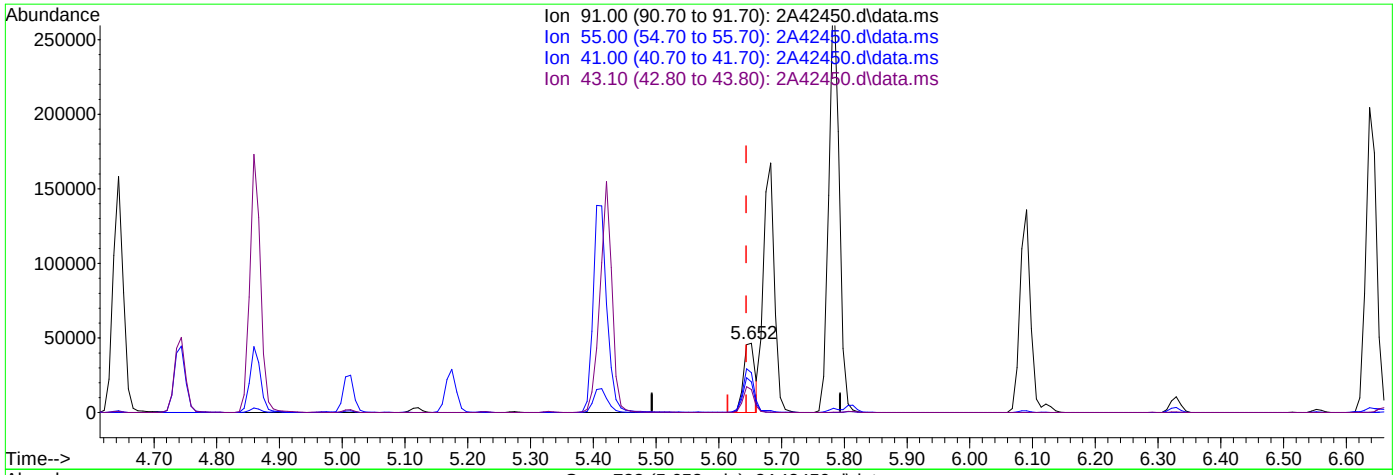
response 264534

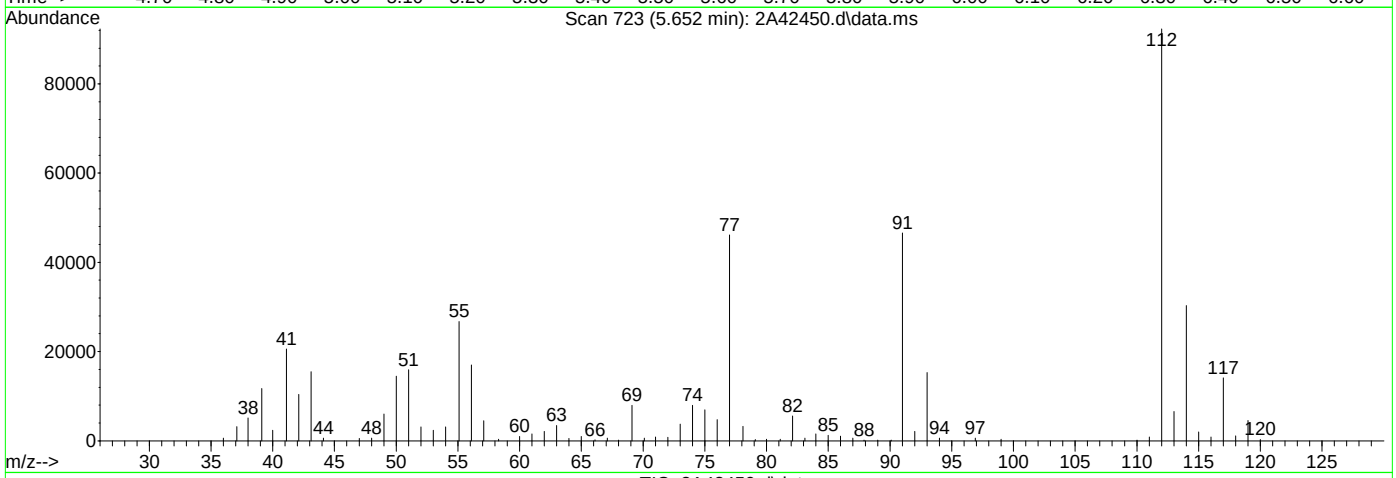
Ion	Exp%	Act%
91.00	100	100
55.00	64.00	0.18#
41.00	50.80	0.71#
43.10	38.80	0.10#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42450.d
Acq On : 27 Dec 2022 7:23 pm
Operator : joannel
Sample : ECC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 27 22:53:12 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42450.d\data.ms

(76) 1-Chlorohexane

5.652min (+0.008) 38.09ug/L m

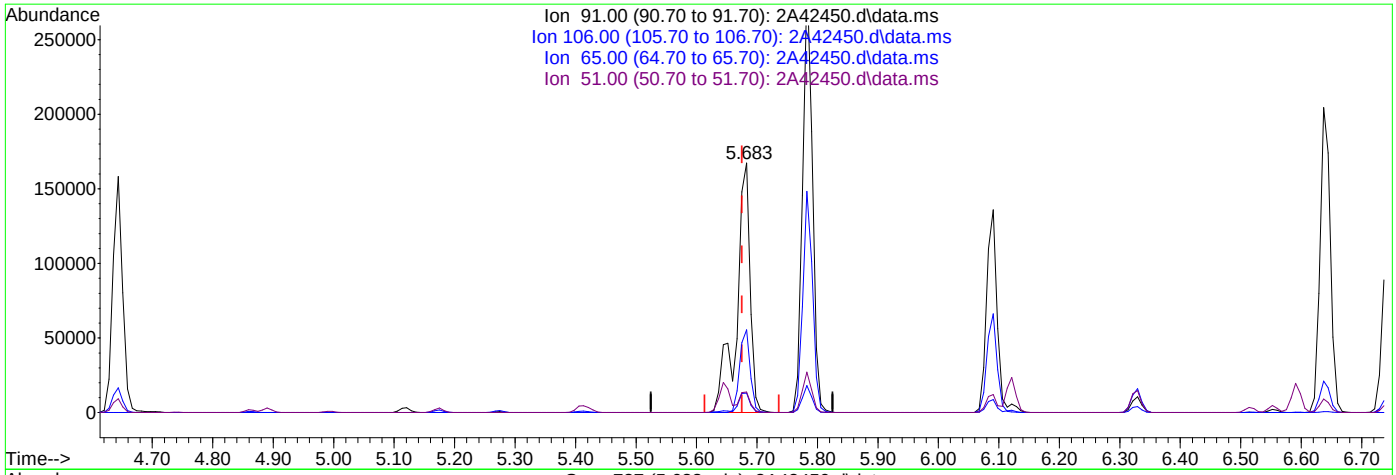
response 59360

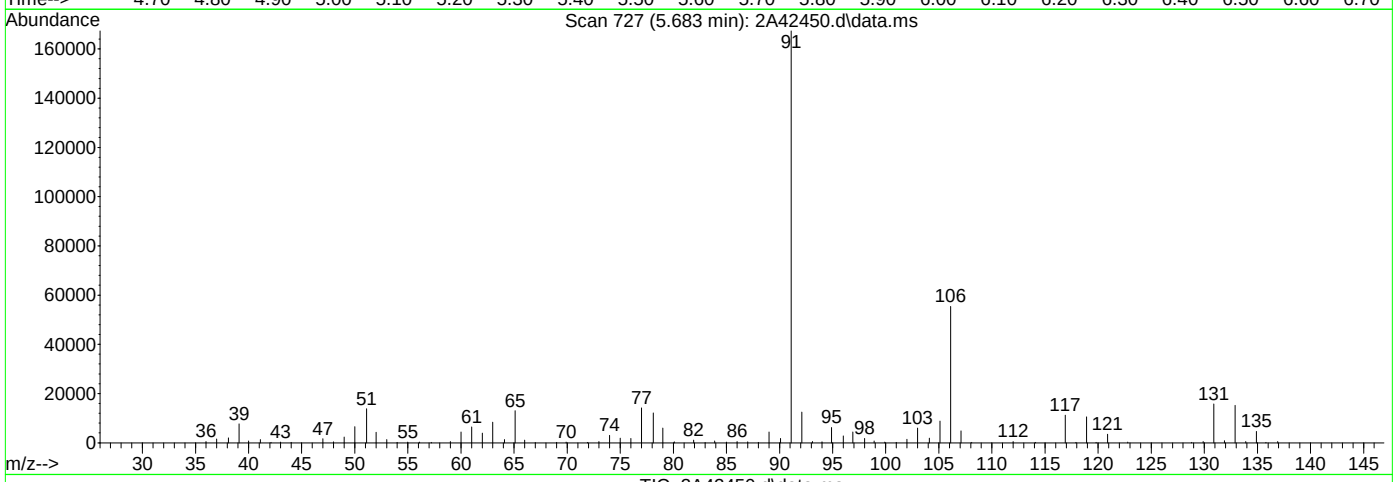
Ion	Exp%	Act%
91.00	100	100
55.00	64.00	57.40
41.00	50.80	44.23
43.10	38.80	33.18

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42450.d
Acq On : 27 Dec 2022 7:23 pm
Operator : joannel
Sample : ECC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 27 22:53:12 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42450.d\data.ms

(77) Ethylbenzene (C)

5.683min (+0.008) 49.60ug/L

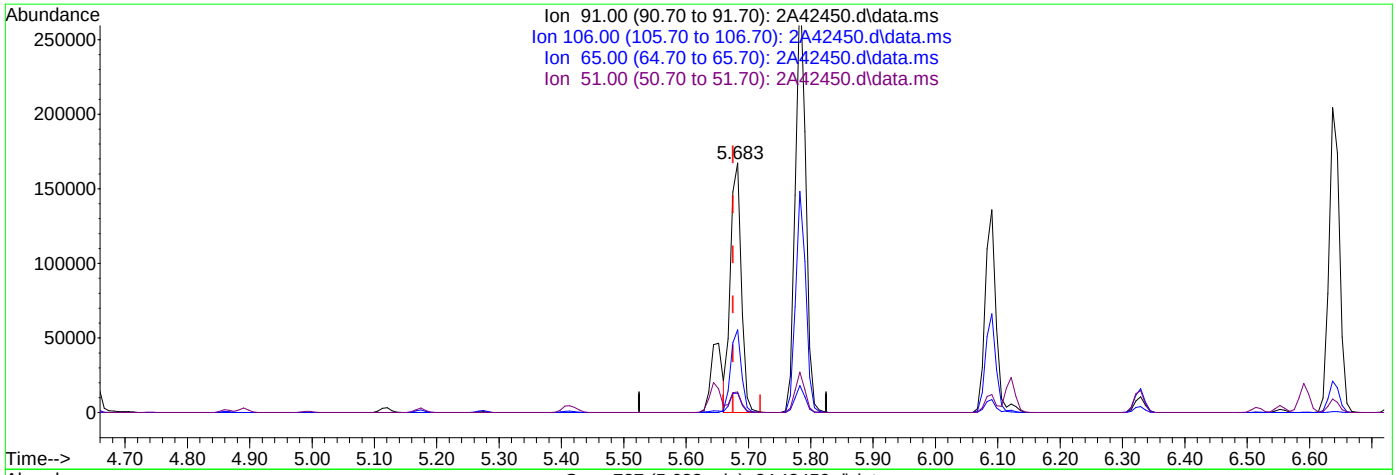
response 264534

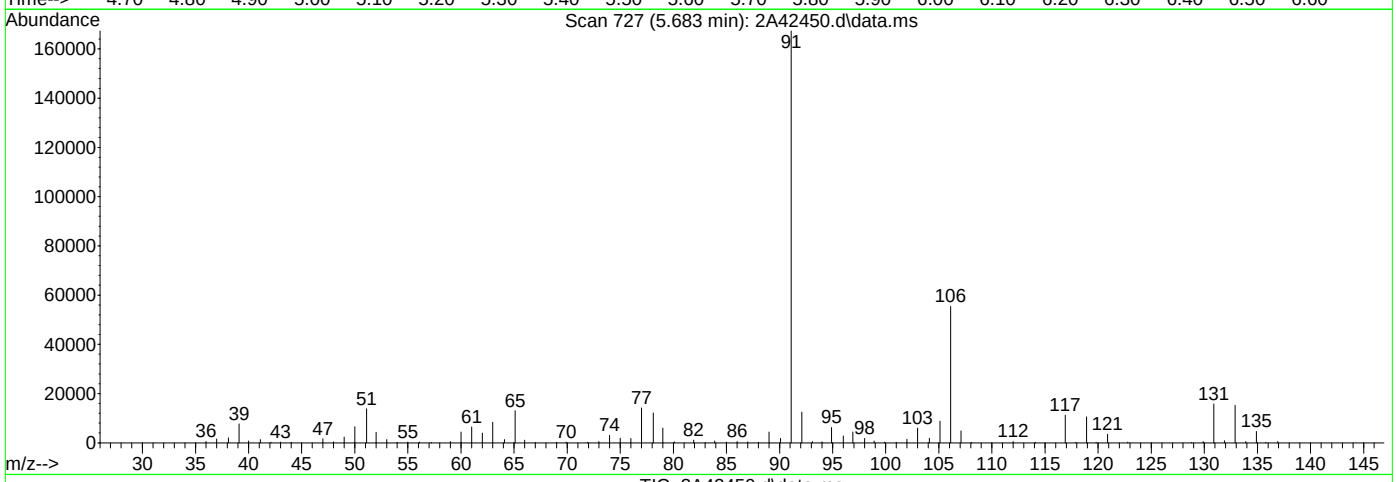
Ion	Exp%	Act%
91.00	100	100
106.00	31.80	33.11
65.00	8.80	7.80
51.00	9.50	8.28

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-28-2022\V2A1682\
Data File : 2A42450.d
Acq On : 27 Dec 2022 7:23 pm
Operator : joannel
Sample : ECC1677-5
Misc : MS53055,V2A1682,,,,,
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 27 22:53:12 2022
Quant Method : C:\msdchem\1\methods\V2A_12-16-2022.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 16 15:31:38 2022
Response via : Initial Calibration





TIC: 2A42450.d\data.ms

(77) Ethylbenzene (C)

5.683min (+0.008) 38.46ug/L m

response 205138

Ion	Exp%	Act%
91.00	100	100
106.00	31.80	33.11
65.00	8.80	7.80
51.00	9.50	8.28

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 11/07/22 18:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:13:27 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.723	96	1232732	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.643	117	822996	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.332	152	344327	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.263	113	248530	45.92	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 91.84%				
49) 1,2-Dichloroethane-d4	3.551	65	362711	50.58	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.16%				
63) Toluene-d8	4.649	98	1208099	52.70	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.40%				
86) 4-Bromofluorobenzene	6.495	174	260322	45.36	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 90.72%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.129	85	4023	0.81	ug/L		87
3) Chloromethane	1.255	50	5720	1.16	ug/L		97
4) 1,3-butadiene	1.323	39	4891	1.12	ug/L		97
5) Vinyl Chloride	1.307	62	5668	1.09	ug/L		93
6) Bromomethane	1.511	94	2472	0.88	ug/L		75
7) Chloroethane	1.590	64	3227	2.20	ug/L		88
8) Trichlorofluoromethane	1.689	101	6508	1.13	ug/L		92
9) Ethyl Ether	1.877	59	4210	1.04	ug/L		95
10) Ethanol	1.950	45	3703m	26.02	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.982	67	4838	0.94	ug/L		87
12) 1,1-Dichloroethene	1.987	61	5741	0.88	ug/L		97
13) Freon 113	2.024	101	3600	0.89	ug/L	#	85
14) Carbon Disulfide	2.008	76	13049	1.18	ug/L		97
16) Acrolein	2.160	56	7842	5.35	ug/L		94
17) Allyl chloride	2.249	41	5169	0.99	ug/L		90
18) Methylene Chloride	2.306	49	42062	6.26	ug/L		92
19) Acetone	2.317	43	24670	8.29	ug/L		92
20) Methyl acetate	2.400	43	34149	5.75	ug/L		96
21) trans-1,2-Dichloroethene	2.405	61	5598	0.87	ug/L		99
22) Hexane	2.473	56	5109	1.62	ug/L	#	86
23) Methyl Tert Butyl Ether	2.473	73	14024	1.07	ug/L		88
24) Tert Butyl Alcohol	2.500	59	17305	14.61	ug/L	#	57
25) Acetonitrile	2.552	41	15490	18.50	ug/L		96
26) Di-isopropyl ether	2.688	45	14423	1.03	ug/L		98
27) Chloroprene	2.730	53	22697	0.97	ug/L		93
28) 1,1-Dichloroethane	2.735	63	7927	0.97	ug/L		94
29) Acrylonitrile	2.730	52	16056	5.38	ug/L		82
30) ETBE	2.881	59	13818	1.06	ug/L		90
31) Vinyl acetate	2.861	43	59730	5.64	ug/L		100
32) cis-1,2-Dichloroethene	3.023	96	4615	0.95	ug/L		89
33) 2,2-Dichloropropane	3.091	77	6242	0.95	ug/L		96
34) Bromochloromethane	3.132	128	1858	0.88	ug/L		92
35) Cyclohexane	3.169	56	6482	0.89	ug/L		90
36) Chloroform	3.169	83	7818	0.93	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:13:27 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Ethyl acetate	3.227	43	45851	5.85	ug/L		97
38) Tetrahydrofuran	3.263	42	3721	1.20	ug/L		85
40) Carbon Tetrachloride	3.268	117	4402m	0.78	ug/L		
41) 1,1,1-Trichloroethane	3.300	97	5985	0.82	ug/L		96
42) 2-Butanone	3.316	43	34148	6.83	ug/L		94
43) 1,1-Dichloropropene	3.368	75	5473	0.84	ug/L		88
44) tert-Butyl formate	3.410	59	14468	9.37	ug/L	#	80
45) Propionitrile	3.462	54	11845	9.07	ug/L		94
46) Methacrylonitrile	3.483	41	36309	8.49	ug/L		97
47) Benzene	3.493	78	18397	0.93	ug/L		94
48) TAME	3.567	73	13584	1.15	ug/L		92
50) Isobutyl alcohol	3.582	43	15718m	21.12	ug/L		
51) 1,2-Dichloroethane	3.593	62	6677	0.96	ug/L		94
52) Tert Amyl Alcohol	3.645	59	11888	13.01	ug/L		86
53) Trichloroethene	3.828	95	4972	0.97	ug/L		90
54) Methylcyclohexane	3.844	83	5613	0.81	ug/L		91
55) Dibromomethane	4.048	93	2298	0.79	ug/L	#	81
56) 1,2-Dichloropropane	4.110	63	4881	1.03	ug/L		87
57) Bromodichloromethane	4.147	83	4401	0.80	ug/L	#	95
58) Methyl methacrylate	4.236	41	4531	0.84	ug/L		91
59) 1,4-Dioxane	4.257	88	2236	17.57	ug/L		93
60) 2-Chloroethyl vinyl ether	4.477	63	14316	4.11	ug/L		93
61) cis-1,3-Dichloropropene	4.524	75	5308	0.75	ug/L		96
64) Toluene	4.681	91	20175	0.98	ug/L		100
65) 2-Nitropropane	4.775	41	7953	4.81	ug/L		86
66) 4-Methyl-2-pentanone	4.890	43	52534	6.53	ug/L		96
67) trans-1,3-Dichloropropene	4.916	75	4886	0.80	ug/L		81
68) Tetrachloroethene	4.937	166	3665	0.78	ug/L		98
69) Ethyl methacrylate	5.031	69	4447	0.66	ug/L		85
70) 1,1,2-Trichloroethane	5.021	83	3446	0.97	ug/L		90
71) Dibromochloromethane	5.141	129	2660	0.75	ug/L		96
72) 1,3-Dichloropropane	5.193	76	7894	1.01	ug/L		92
73) 1,2-Dibromoethane	5.298	107	3899	0.88	ug/L		84
74) 3,3-dimethyl-1-butanol	5.434	57	47583	35.91	ug/L		92
75) 2-hexanone	5.434	43	50243	5.80	ug/L		97
76) 1-Chlorohexane	5.648	91	7183m	1.13	ug/L		
77) Ethylbenzene	5.685	91	20608	0.92	ug/L		97
78) Chlorobenzene	5.653	112	12219	1.01	ug/L		73
79) 1,1,1,2-Tetrachloroethane	5.695	131	3030	0.79	ug/L		92
80) m,p-Xylene	5.784	91	30645	1.74	ug/L		98
81) o-Xylene	6.077	91	15958	0.89	ug/L		93
82) Styrene	6.114	104	9232	0.68	ug/L		99
83) Bromoform	6.119	173	1311	0.68	ug/L		79
84) Isopropylbenzene	6.312	105	17331	0.85	ug/L		95
87) cis-1,4-Dichloro-2-butene	6.527	53	1597	0.82	ug/L	#	68
88) n-Propylbenzene	6.611	91	21739	0.96	ug/L		97
89) Bromobenzene	6.569	156	4160	0.91	ug/L		86
90) 1,1,2,2-Tetrachloroethane	6.631	83	6843	1.12	ug/L		97
91) 1,3,5-Trimethylbenzene	6.757	105	13322	0.85	ug/L		95
92) 2-Chlorotoluene	6.715	91	13511	0.98	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:13:27 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

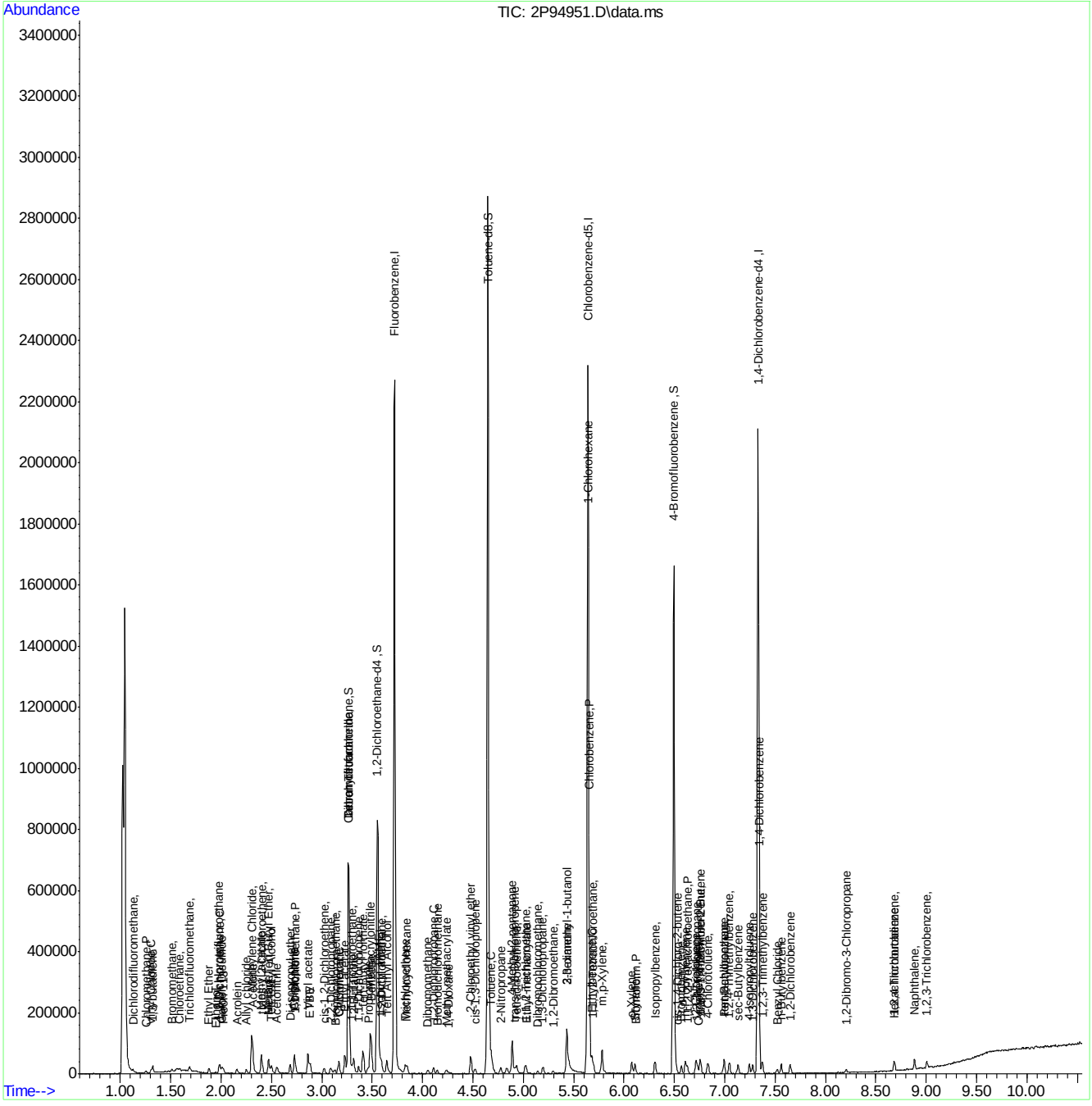
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93) trans-1,4-Dichloro-2-B...	6.757	53	1952	0.85	ug/L	#	77
94) 1,2,3-Trichloropropane	6.726	110	2609	1.15	ug/L		84
95) Cyclohexanone	6.741	55	2166	4.92	ug/L		94
96) 4-Chlorotoluene	6.835	91	14328	1.00	ug/L		92
97) tert-Butylbenzene	6.992	91	7991	0.90	ug/L		91
99) 1,2,4-Trimethylbenzene	7.045	105	12568	0.82	ug/L		96
100) Pentachloroethane	6.998	167	1051	0.56	ug/L	#	67
101) sec-Butylbenzene	7.134	105	15234	0.89	ug/L		99
102) 4-Isopropyltoluene	7.243	119	11985	0.82	ug/L		93
103) 1,3-Dichlorobenzene	7.280	146	7432	0.92	ug/L		95
104) 1,2,3-Trimethylbenzene	7.374	105	13768	0.90	ug/L		97
105) 1,4-Dichlorobenzene	7.343	146	8153m	0.98	ug/L		
106) n-Butylbenzene	7.562	92	6953	0.97	ug/L		97
107) Benzyl Chloride	7.521	126	1275m	0.75	ug/L		
108) 1,2-Dichlorobenzene	7.651	146	7243	0.95	ug/L		91
109) 1,2-Dibromo-3-Chloropr...	8.206	75	1434	1.08	ug/L	#	67
110) Hexachlorobutadiene	8.687	225	1180	0.74	ug/L		95
111) 1,2,4-Trichlorobenzene	8.682	180	3633	0.84	ug/L		95
112) Naphthalene	8.880	128	14179	0.85	ug/L		91
113) 1,2,3-Trichlorobenzene	9.006	180	3524	0.87	ug/L		85

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:13:27 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration



Manual Integration Approval Summary

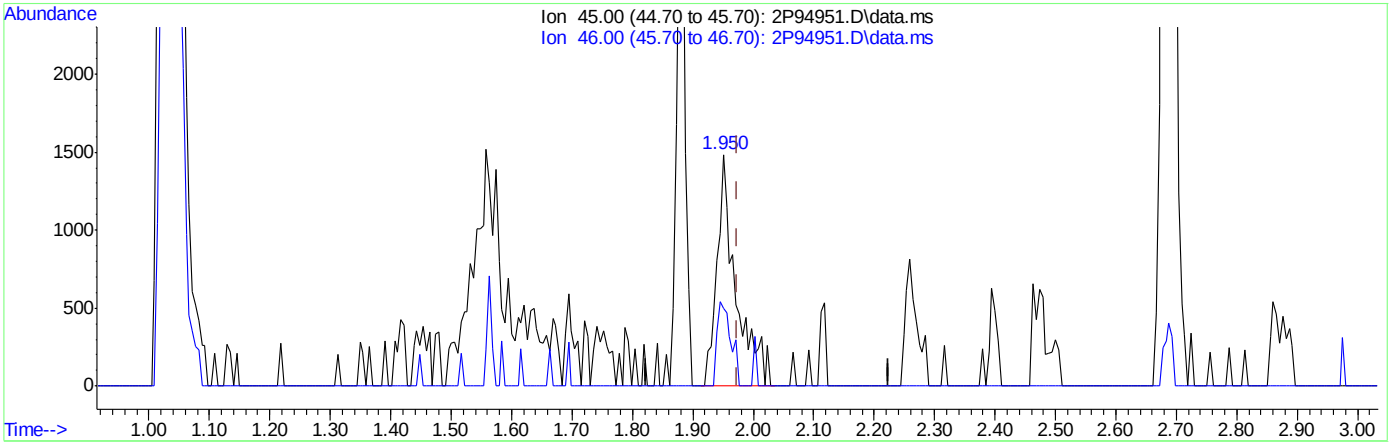
Sample Number: V2P3622-IC3622 **Method:** SW846 8260D
Lab FileID: 2P94951.D **Analyst approved:** 11/04/22 11:15 Courtney Failla
Injection Time: 11/04/22 10:40 **Supervisor approved:** 11/07/22 18:21 Shanica O'Connor

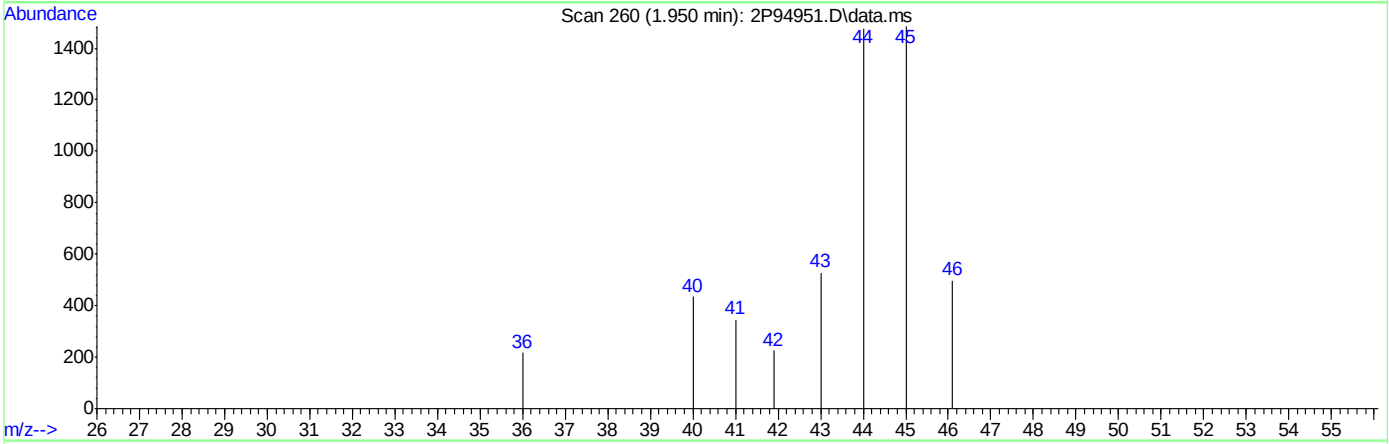
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.95	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.58	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration
1,4-Dichlorobenzene	106-46-7		7.34	Missed peak
Benzyl Chloride	100-44-7		7.52	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(10) Ethanol

1.950min (-0.024) 22.80ug/L

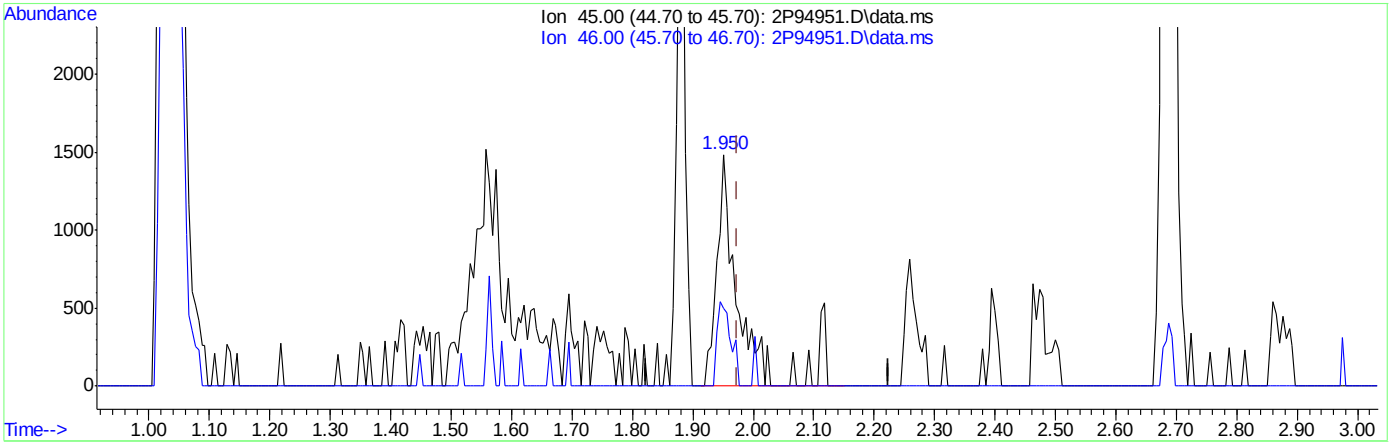
response 3246

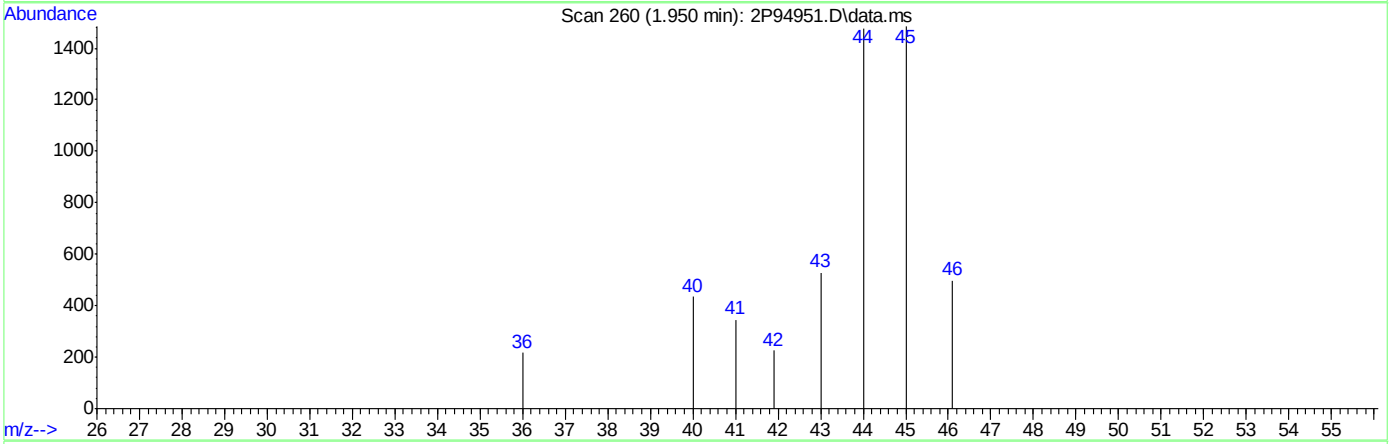
Ion	Exp%	Act%
45.00	100	100
46.00	42.50	33.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(10) Ethanol

1.950min (-0.024) 26.02ug/L m

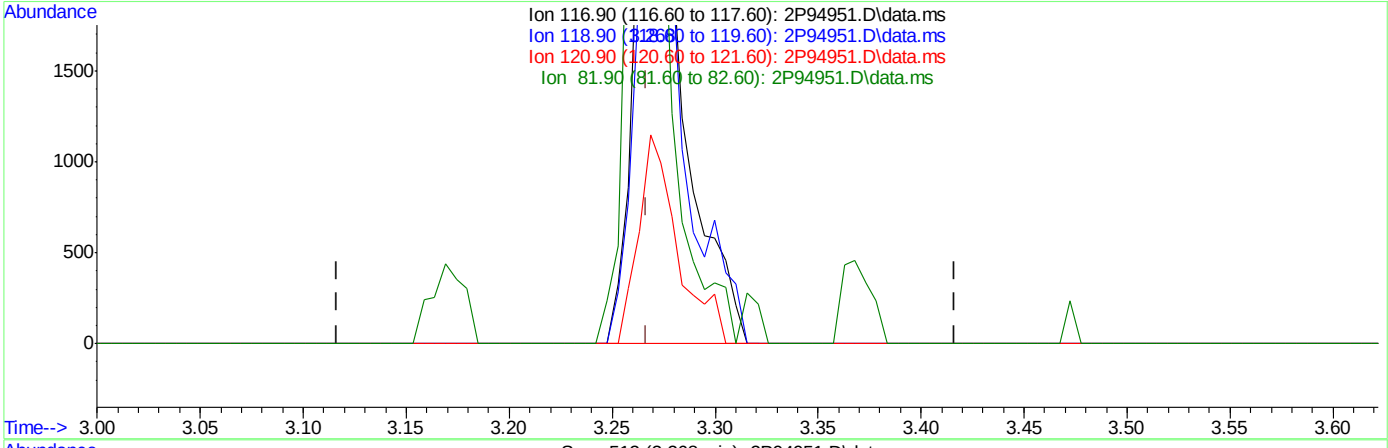
response 3703

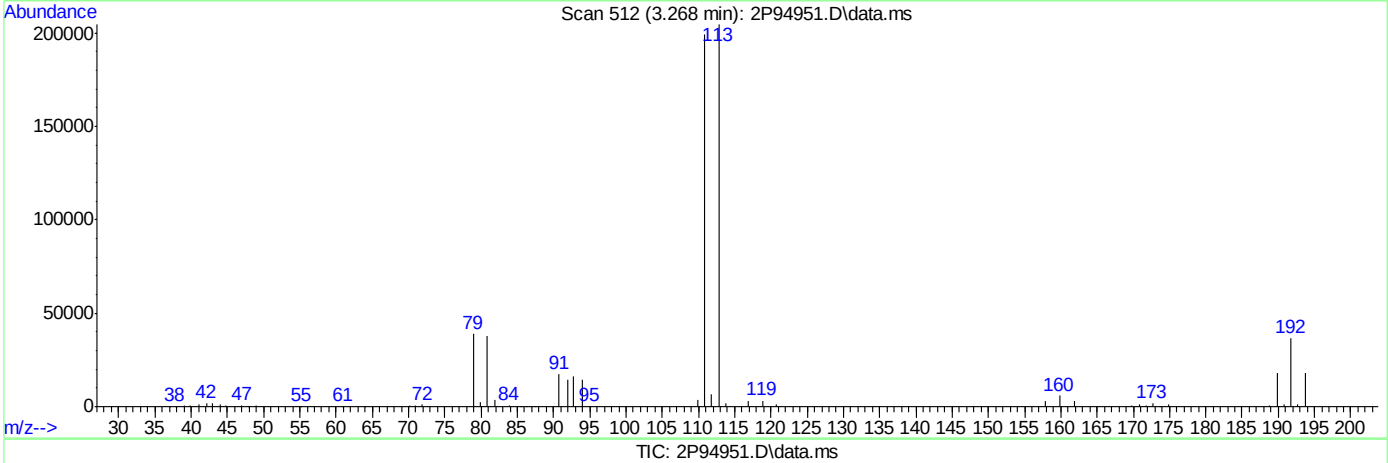
Ion	Exp%	Act%
45.00	100	100
46.00	42.50	33.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(40) Carbon Tetrachloride ( )

3.268min (+0.002) 0.85ug/L

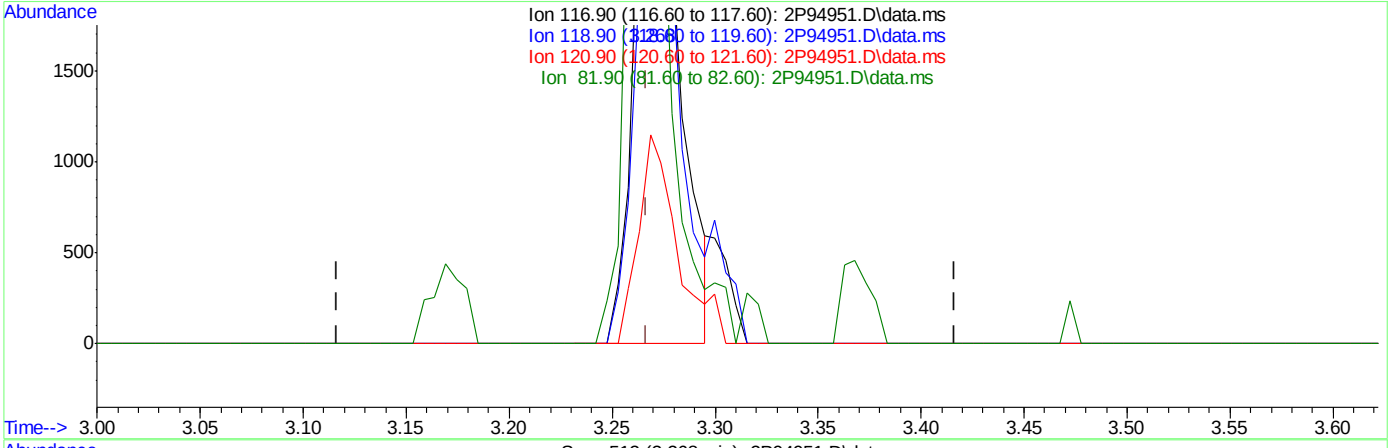
response 4794

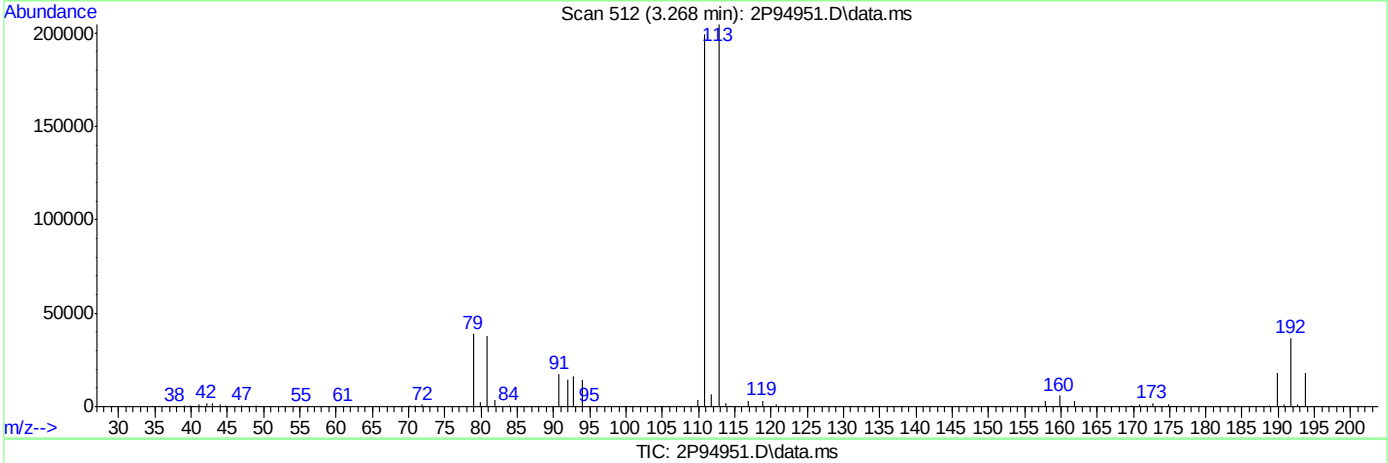
Ion	Exp%	Act%
116.90	100	100
118.90	95.80	110.95
120.90	29.50	38.90
81.90	30.20	117.34#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(40) Carbon Tetrachloride ( )

3.268min (+0.002) 0.78ug/L m

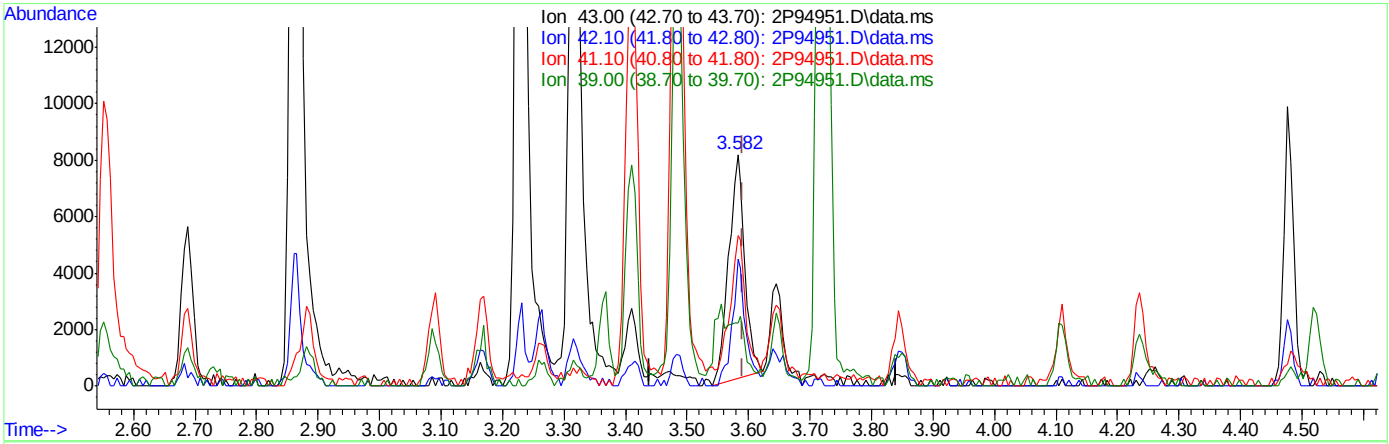
response 4402

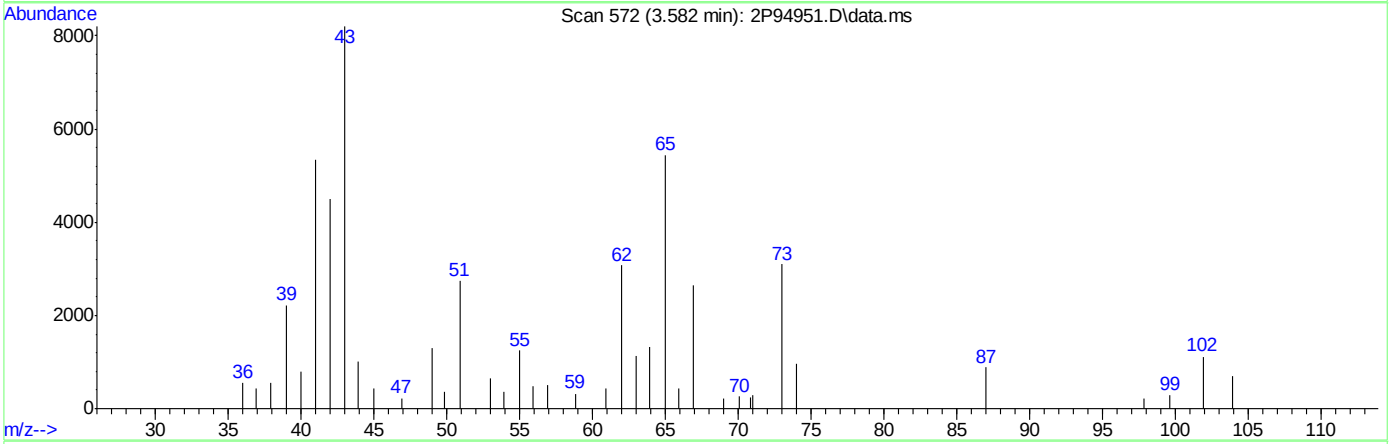
Ion	Exp%	Act%
116.90	100	100
118.90	95.80	110.95
120.90	29.50	38.90
81.90	30.20	117.34#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(50) Isobutyl alcohol

3.582min (-0.009) 19.51ug/L

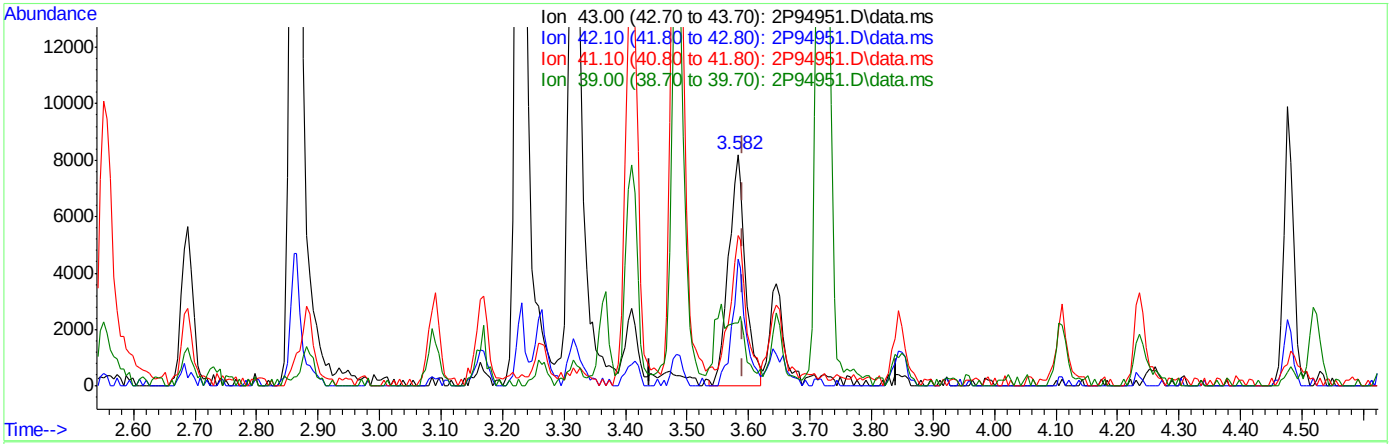
response 14526

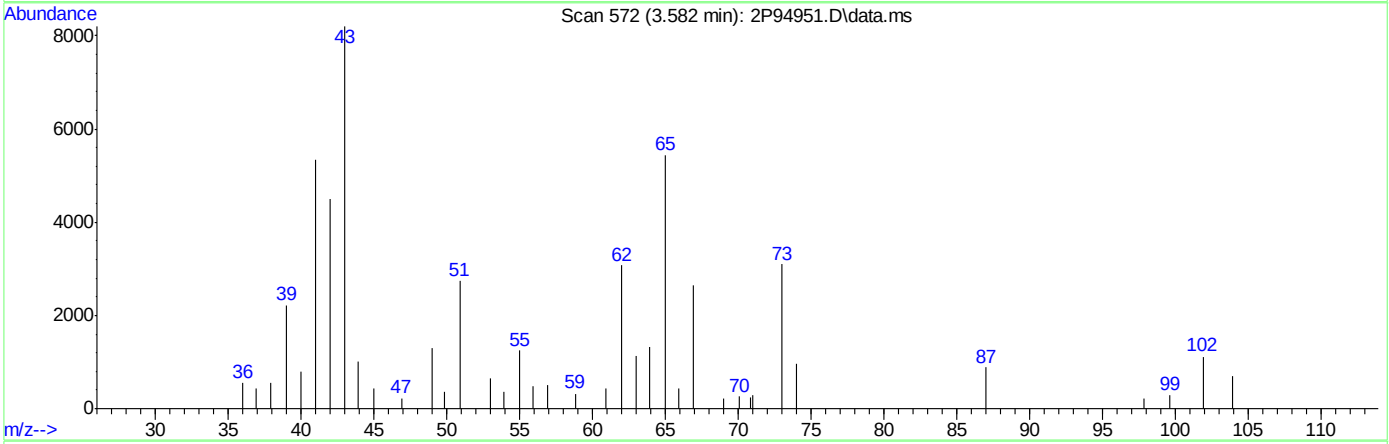
Ion	Exp%	Act%
43.00	100	100
42.10	61.30	54.88
41.10	73.00	56.69
39.00	27.40	23.11

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(50) Isobutyl alcohol

3.582min (-0.009) 21.12ug/L m

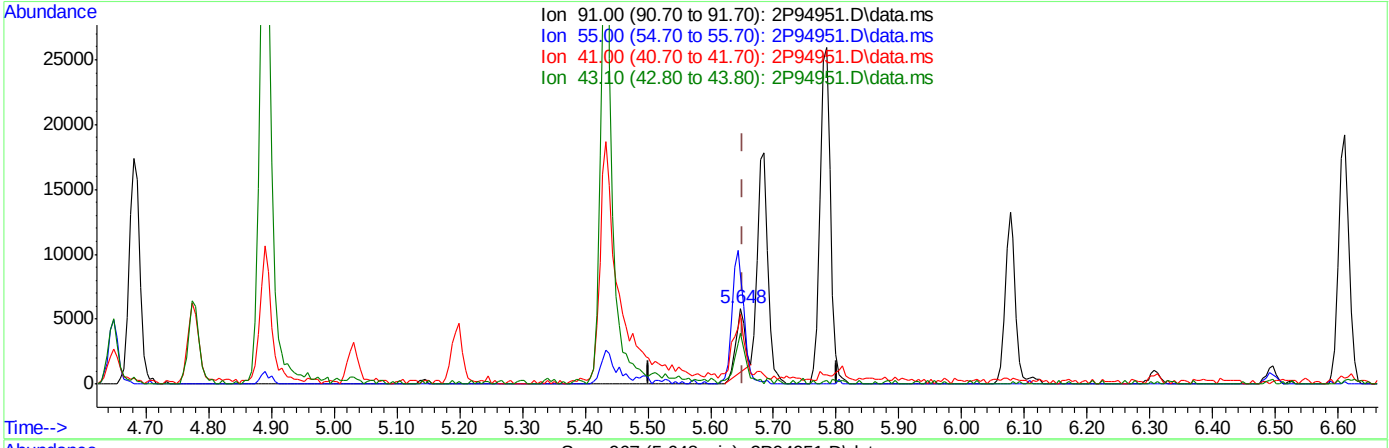
response 15718

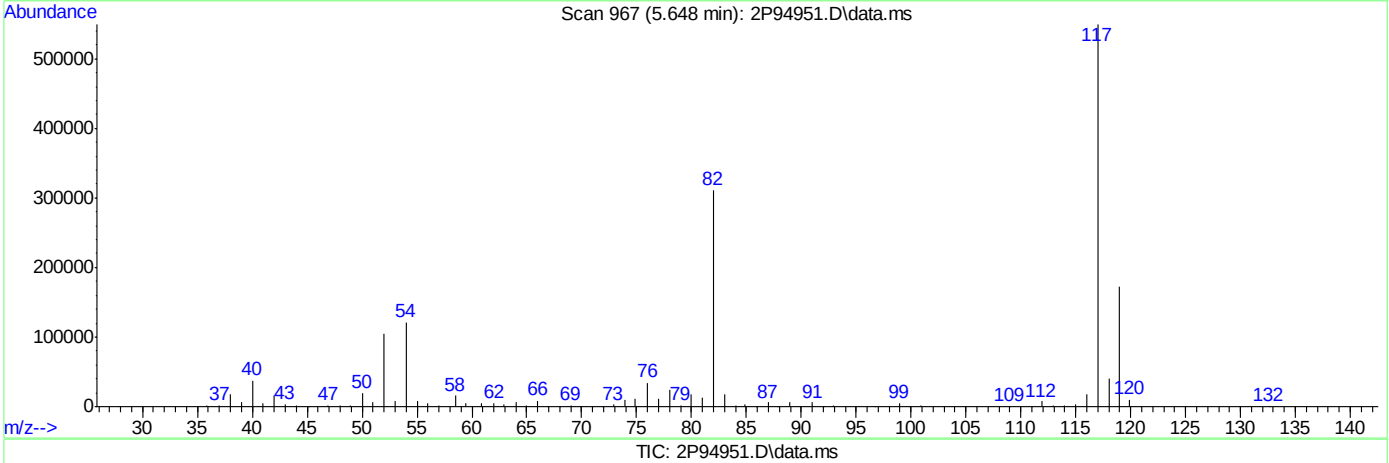
Ion	Exp%	Act%
43.00	100	100
42.10	61.30	54.88
41.10	73.00	65.16
39.00	27.40	27.05

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(76) 1-Chlorohexane

5.648min (-0.003) 0.82ug/L

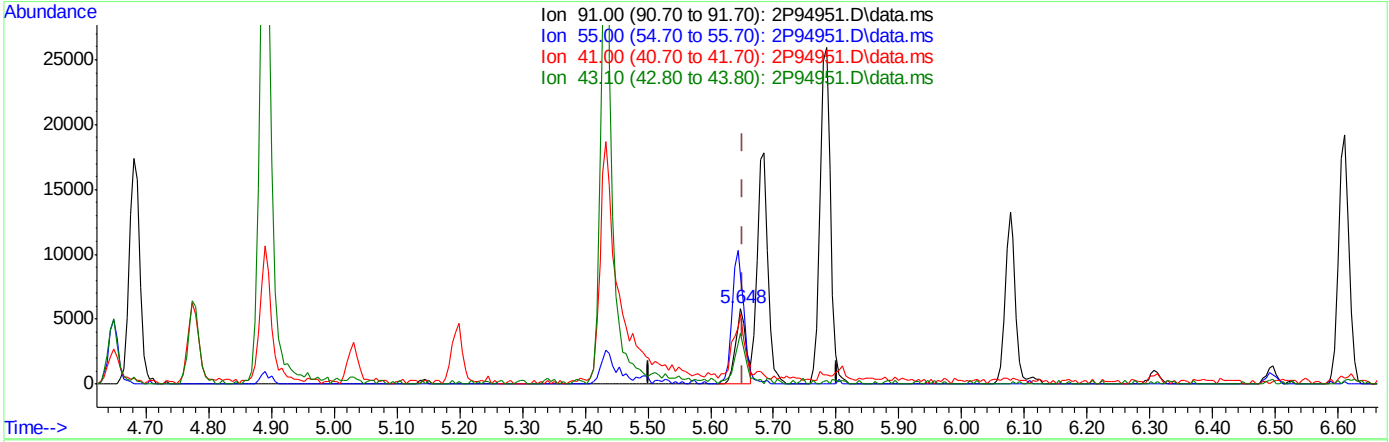
response 5253

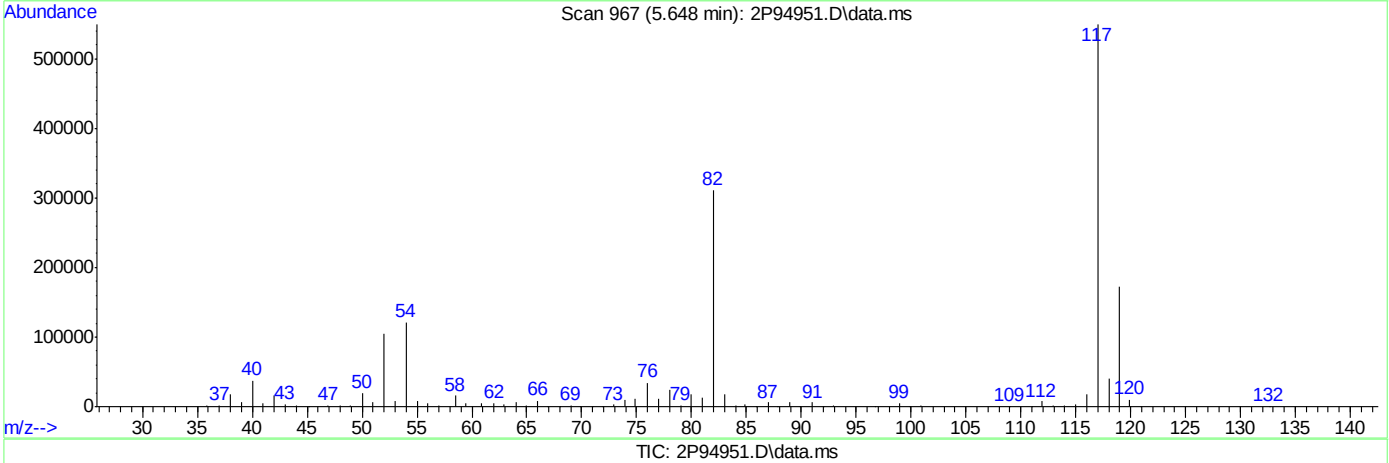
Ion	Exp%	Act%
91.00	100	100
55.00	65.20	135.59#
41.00	51.70	79.36#
43.10	43.60	62.82

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(76) 1-Chlorohexane

5.648min (-0.003) 1.13ug/L m

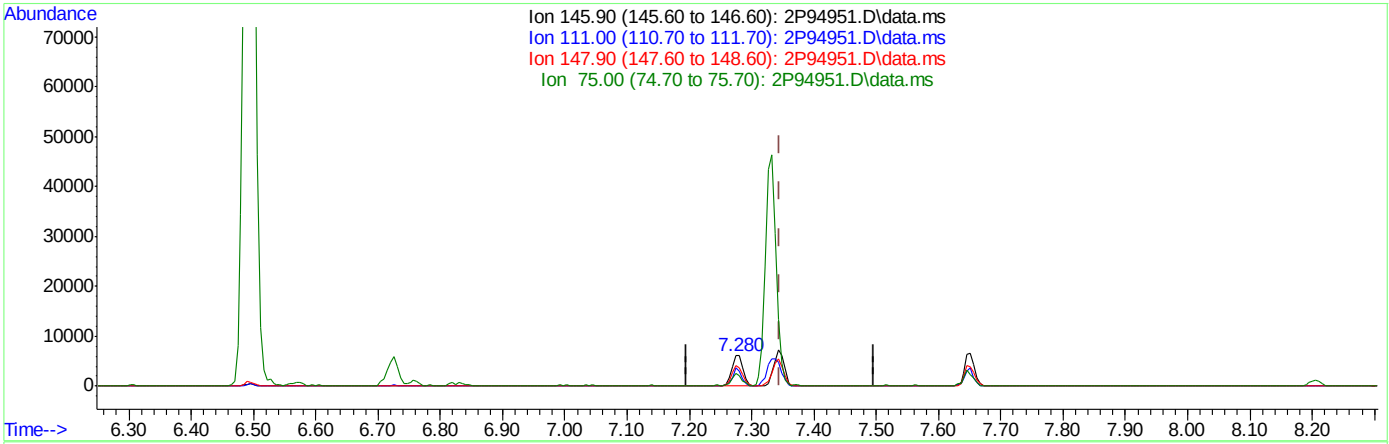
response 7183

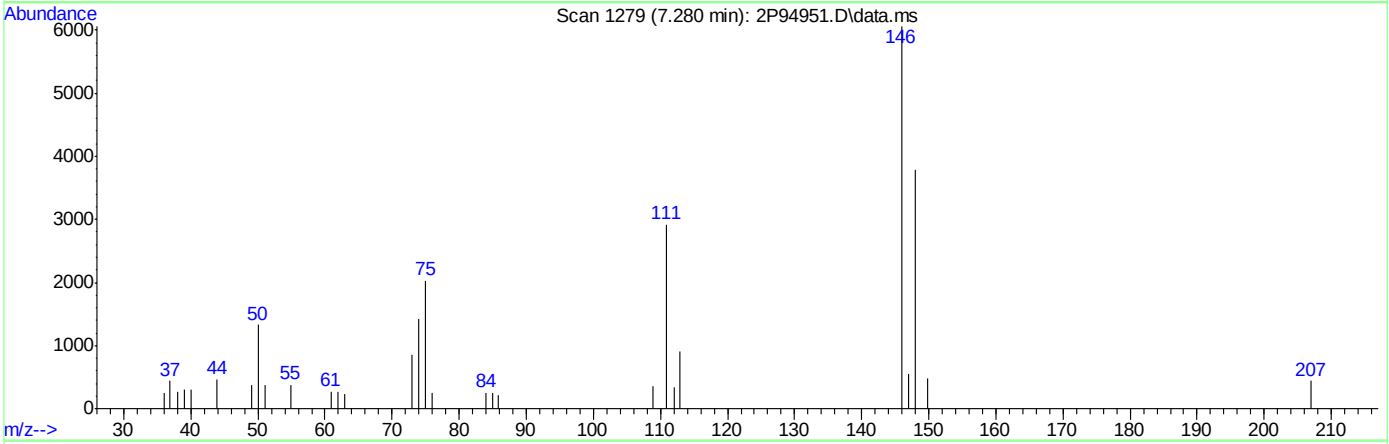
Ion	Exp%	Act%
91.00	100	100
55.00	65.20	143.01#
41.00	51.70	92.54#
43.10	43.60	67.29#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(105) 1,4-Dichlorobenzene

7.280min (-0.066) 0.89ug/L

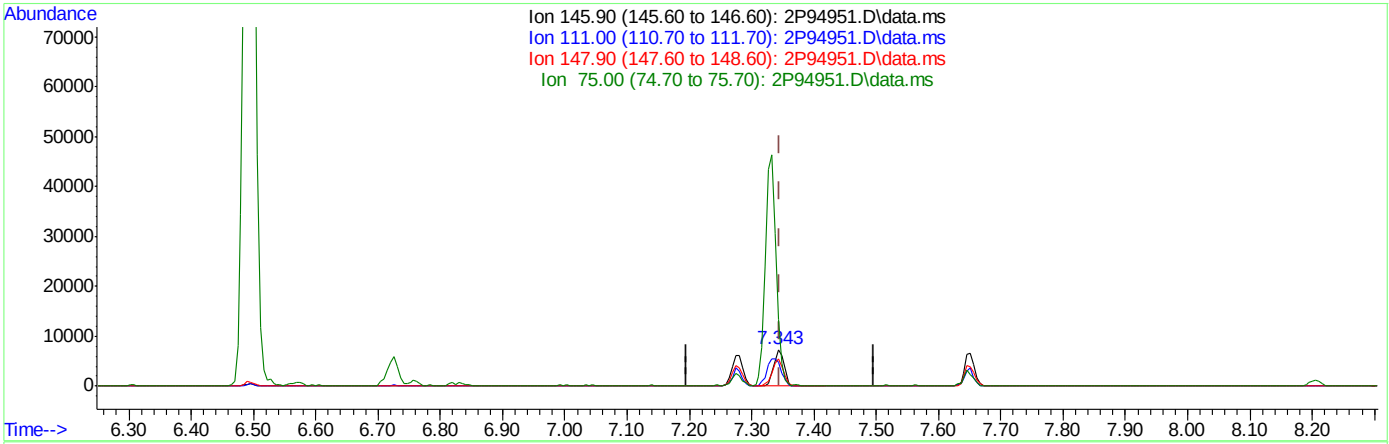
response 7432

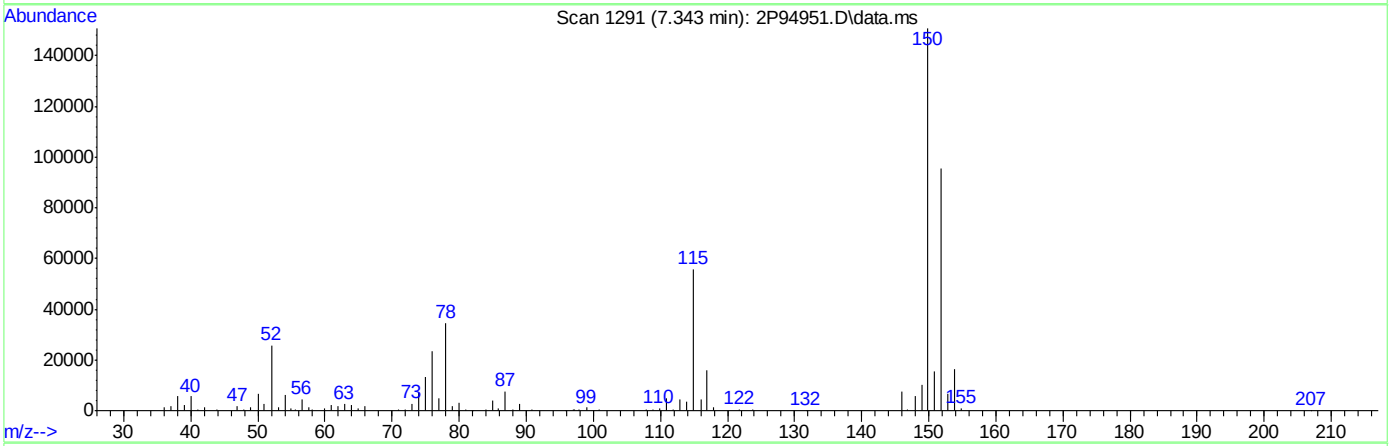
Ion	Exp%	Act%
145.90	100	100
111.00	38.90	48.14
147.90	63.50	62.48
75.00	33.30	33.54

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(105) 1,4-Dichlorobenzene

7.343min (-0.003) 0.98ug/L m

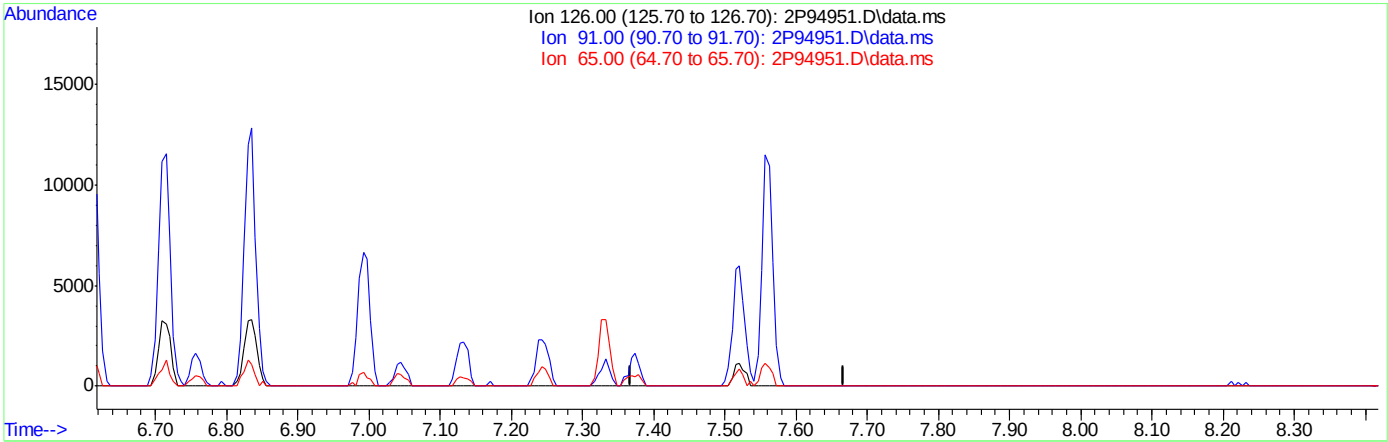
response 8153

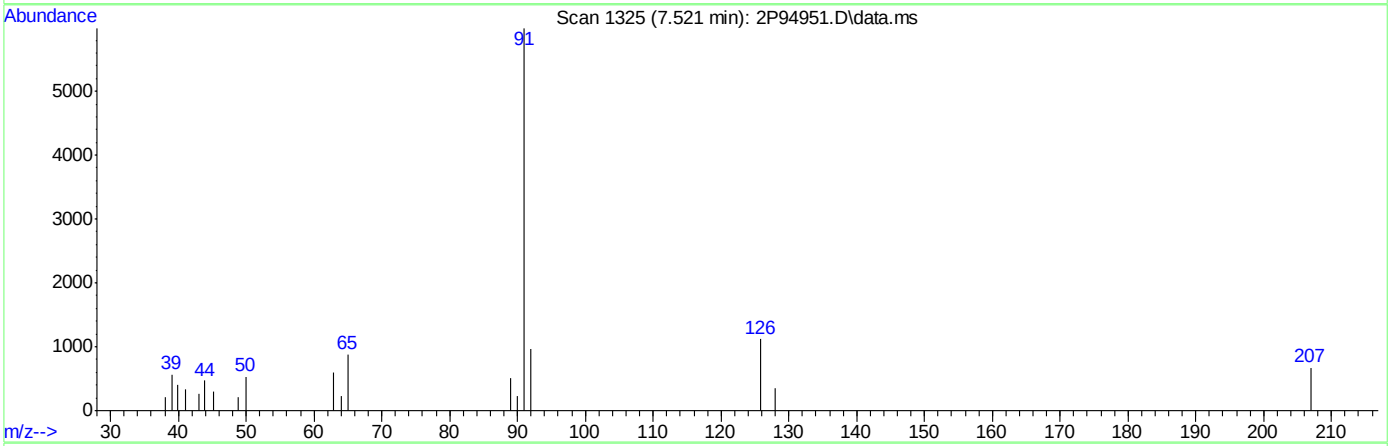
Ion	Exp%	Act%
145.90	100	100
111.00	38.90	64.61
147.90	63.50	76.06
75.00	33.30	183.64#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(107) Benzyl Chloride

7.518min (-7.518) 0.00ug/L

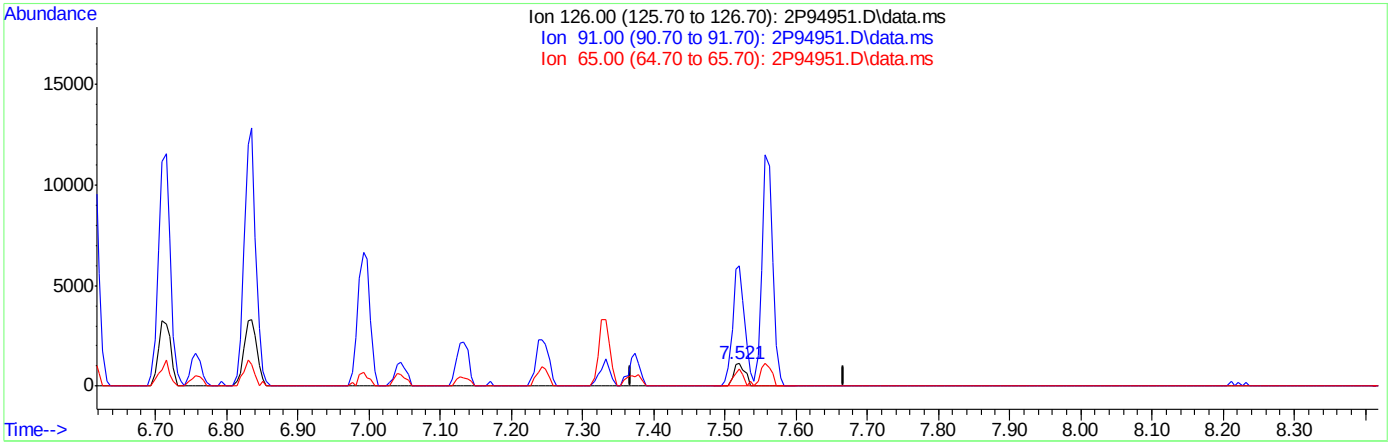
response 0

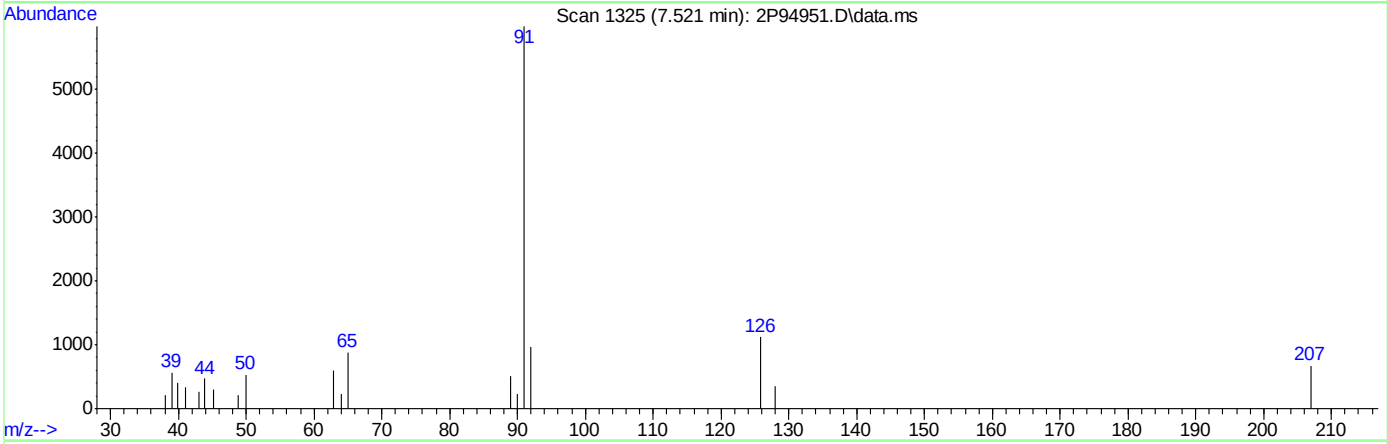
Ion	Exp%	Act%
126.00	100	0.00
91.00	515.60	0.00#
65.00	64.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94951.D
Acq On : 4 Nov 2022 10:40 am
Operator : courtnef
Sample : IC3622-1
Misc : MS52512,V2P3622,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 04 11:08:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94951.D\data.ms

(107) Benzyl Chloride

7.521min (+0.003) 0.75ug/L m

response 1275

Ion	Exp%	Act%
126.00	100	100
91.00	515.60	534.76
65.00	64.10	78.64
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 11/07/22 18:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94953.D
Acq On : 4 Nov 2022 11:12 am
Operator : courtnef
Sample : IC3622-2
Misc : MS52512,V2P3622,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Nov 04 11:24:36 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.722	96	1237433	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	832715	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	357875	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.267	113	250707	46.14	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 92.28%			
49) 1,2-Dichloroethane-d4	3.549	65	369107	51.27	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.54%			
63) Toluene-d8	4.647	98	1217396	52.48	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.96%			
86) 4-Bromofluorobenzene	6.494	174	268254	44.97	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 89.94%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.122	85	23775	4.76	ug/L	96
3) Chloromethane	1.248	50	25618	5.19	ug/L	98
4) 1,3-butadiene	1.321	39	33078	7.57	ug/L	99
5) Vinyl Chloride	1.305	62	29472	5.65	ug/L	99
6) Bromomethane	1.509	94	15536	5.48	ug/L	98
7) Chloroethane	1.583	64	8797	5.99	ug/L	88
8) Trichlorofluoromethane	1.682	101	33520	5.82	ug/L	95
9) Ethyl Ether	1.875	59	25727	6.31	ug/L	91
10) Ethanol	1.949	45	21054	150.56	ug/L	98
11) 1,2-Dichlorotrifluoroe...	1.980	67	28805	5.58	ug/L	96
12) 1,1-Dichloroethene	1.985	61	34060	5.20	ug/L	97
13) Freon 113	2.017	101	19972	4.93	ug/L	86
14) Carbon Disulfide	2.001	76	63580	5.73	ug/L	99
15) Iodomethane	2.064	142	6645	1.72	ug/L	88
16) Acrolein	2.153	56	41568	28.26	ug/L	98
17) Allyl chloride	2.247	41	30662	5.85	ug/L	94
18) Methylene Chloride	2.304	49	69225	10.36	ug/L	92
19) Acetone	2.315	43	95261	31.90	ug/L	97
20) Methyl acetate	2.398	43	188482	31.63	ug/L	97
21) trans-1,2-Dichloroethene	2.404	61	33821	5.25	ug/L	95
22) Hexane	2.472	56	17375	5.45	ug/L	95
23) Methyl Tert Butyl Ether	2.472	73	81121	6.14	ug/L	94
24) Tert Butyl Alcohol	2.498	59	93417	78.57	ug/L	87
25) Acetonitrile	2.550	41	76714	87.26	ug/L	95
26) Di-isopropyl ether	2.686	45	87404	6.19	ug/L	94
27) Chloroprene	2.728	53	124206	5.31	ug/L	94
28) 1,1-Dichloroethane	2.733	63	45908	5.61	ug/L	98
29) Acrylonitrile	2.728	52	83308	27.79	ug/L	92
30) ETBE	2.880	59	82201	6.27	ug/L	97
31) Vinyl acetate	2.859	43	313570	29.51	ug/L	99
32) cis-1,2-Dichloroethene	3.021	96	25656	5.24	ug/L	89
33) 2,2-Dichloropropane	3.089	77	35033	5.31	ug/L	97
34) Bromochloromethane	3.125	128	10627	4.99	ug/L	89
35) Cyclohexane	3.167	56	38086	5.18	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94953.D
Acq On : 4 Nov 2022 11:12 am
Operator : courtnef
Sample : IC3622-2
Misc : MS52512,V2P3622,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Nov 04 11:24:36 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.167	83	43935	5.22	ug/L		96
37) Ethyl acetate	3.225	43	230259	29.27	ug/L		98
38) Tetrahydrofuran	3.256	42	19065	6.13	ug/L		94
40) Carbon Tetrachloride	3.267	117	25600m	4.54	ug/L		
41) 1,1,1-Trichloroethane	3.298	97	35774	4.89	ug/L		94
42) 2-Butanone	3.314	43	138680	27.61	ug/L		95
43) 1,1-Dichloropropene	3.366	75	34462	5.24	ug/L		92
44) tert-Butyl formate	3.408	59	94036	58.28	ug/L	#	71
45) Propionitrile	3.460	54	83925	64.18	ug/L		99
46) Methacrylonitrile	3.481	41	285469	66.49	ug/L		96
47) Benzene	3.497	78	108260	5.46	ug/L		97
48) TAME	3.565	73	76730	6.46	ug/L		92
50) Isobutyl alcohol	3.586	43	101655m	136.04	ug/L		
51) 1,2-Dichloroethane	3.591	62	38178	5.48	ug/L		98
52) Tert Amyl Alcohol	3.643	59	73105	79.72	ug/L		85
53) Trichloroethene	3.826	95	26322	5.13	ug/L		99
54) Methylcyclohexane	3.842	83	33288	4.80	ug/L		93
55) Dibromomethane	4.051	93	14867	5.10	ug/L		90
56) 1,2-Dichloropropane	4.109	63	26497	5.59	ug/L		94
57) Bromodichloromethane	4.145	83	26008	4.73	ug/L		97
58) Methyl methacrylate	4.234	41	31301	5.79	ug/L		88
59) 1,4-Dioxane	4.255	88	14370	112.51	ug/L		96
60) 2-Chloroethyl vinyl ether	4.480	63	89641	25.64	ug/L		95
61) cis-1,3-Dichloropropene	4.522	75	33798	4.77	ug/L		94
64) Toluene	4.679	91	116348	5.59	ug/L		95
65) 2-Nitropropane	4.778	41	50375	29.60	ug/L		93
66) 4-Methyl-2-pentanone	4.888	43	239995	29.47	ug/L		95
67) trans-1,3-Dichloropropene	4.919	75	30593	4.98	ug/L		83
68) Tetrachloroethene	4.935	166	21927	4.63	ug/L		95
69) Ethyl methacrylate	5.029	69	34461	5.03	ug/L		98
70) 1,1,2-Trichloroethane	5.019	83	20882	5.82	ug/L		96
71) Dibromochloromethane	5.144	129	16120	4.44	ug/L		95
72) 1,3-Dichloropropane	5.197	76	44718	5.64	ug/L		95
73) 1,2-Dibromoethane	5.296	107	22642	5.04	ug/L		92
74) 3,3-dimethyl-1-butanol	5.427	57	339429	253.15	ug/L		95
75) 2-hexanone	5.432	43	254820	29.05	ug/L		78
76) 1-Chlorohexane	5.652	91	33817m	5.24	ug/L		
77) Ethylbenzene	5.683	91	122586	5.42	ug/L		98
78) Chlorobenzene	5.657	112	65699	5.35	ug/L		93
79) 1,1,1,2-Tetrachloroethane	5.699	131	18289	4.70	ug/L		94
80) m,p-Xylene	5.782	91	186712	10.50	ug/L		99
81) o-Xylene	6.080	91	91506	5.07	ug/L		98
82) Styrene	6.112	104	63240	4.62	ug/L		96
83) Bromoform	6.117	173	7852	4.00	ug/L		94
84) Isopropylbenzene	6.305	105	104691	5.08	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.525	53	10813	5.32	ug/L	#	66
88) n-Propylbenzene	6.609	91	124936	5.30	ug/L		99
89) Bromobenzene	6.572	156	22972	4.83	ug/L		87
90) 1,1,2,2-Tetrachloroethane	6.630	83	36917	5.82	ug/L		96
91) 1,3,5-Trimethylbenzene	6.755	105	81598	5.01	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94953.D
Acq On : 4 Nov 2022 11:12 am
Operator : courtnef
Sample : IC3622-2
Misc : MS52512,V2P3622,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Nov 04 11:24:36 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

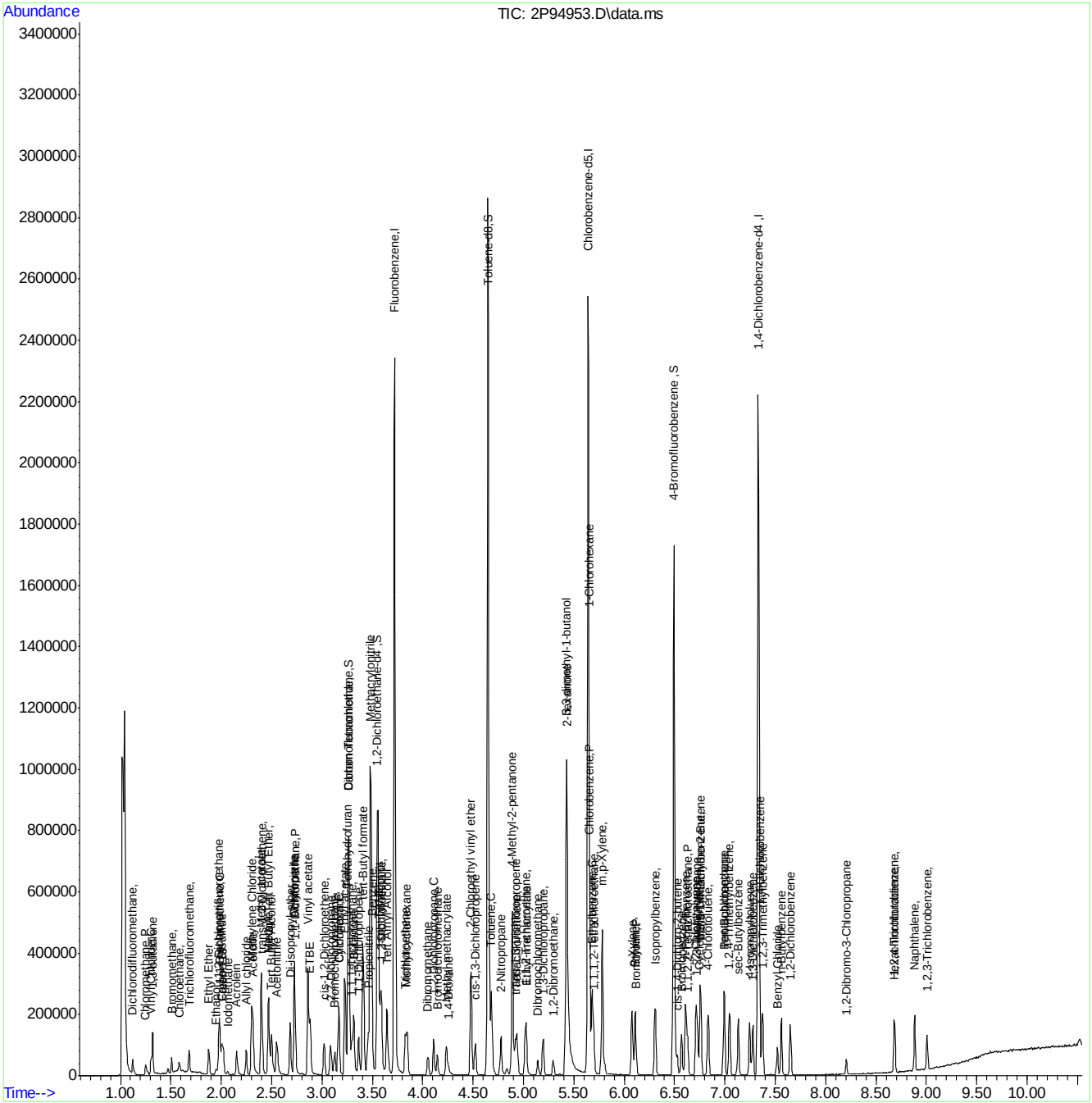
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.713	91	76083	5.29	ug/L		98
93)	trans-1,4-Dichloro-2-B...	6.755	53	12828	5.39	ug/L	#	78
94)	1,2,3-Trichloropropane	6.724	110	13110	5.55	ug/L		96
95)	Cyclohexanone	6.750	55	12661	27.70	ug/L		92
96)	4-Chlorotoluene	6.834	91	79794	5.37	ug/L		99
97)	tert-Butylbenzene	6.991	91	45935	4.97	ug/L		95
99)	1,2,4-Trimethylbenzene	7.043	105	78620	4.93	ug/L		99
100)	Pentachloroethane	6.996	167	8503	4.38	ug/L	#	87
101)	sec-Butylbenzene	7.132	105	88618	4.99	ug/L		97
102)	4-Isopropyltoluene	7.247	119	73066	4.79	ug/L		99
103)	1,3-Dichlorobenzene	7.278	146	41608	4.94	ug/L		96
104)	1,2,3-Trimethylbenzene	7.372	105	81027	5.12	ug/L		98
105)	1,4-Dichlorobenzene	7.346	146	44589	5.14	ug/L		93
106)	n-Butylbenzene	7.561	92	38367	5.15	ug/L		98
107)	Benzyl Chloride	7.524	126	7948	4.42	ug/L	#	81
108)	1,2-Dichlorobenzene	7.650	146	39626	4.98	ug/L		96
109)	1,2-Dibromo-3-Chloropr...	8.204	75	7187	5.15	ug/L		87
110)	Hexachlorobutadiene	8.685	225	6553	3.95	ug/L		93
111)	1,2,4-Trichlorobenzene	8.680	180	20053	4.44	ug/L		94
112)	Naphthalene	8.884	128	82027	4.73	ug/L		100
113)	1,2,3-Trichlorobenzene	9.009	180	18452	4.37	ug/L		92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94953.D
Acq On : 4 Nov 2022 11:12 am
Operator : courtnef
Sample : IC3622-2
Misc : MS52512,V2P3622,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Nov 04 11:24:36 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration



Manual Integration Approval Summary

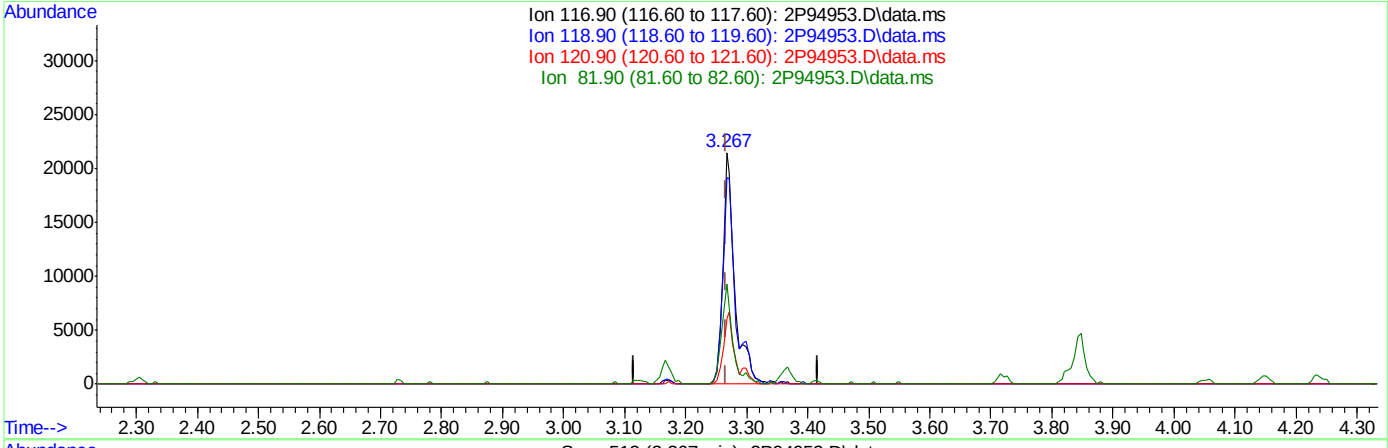
Sample Number: V2P3622-IC3622 **Method:** SW846 8260D
Lab FileID: 2P94953.D **Analyst approved:** 11/04/22 11:26 Courtney Failla
Injection Time: 11/04/22 11:12 **Supervisor approved:** 11/07/22 18:21 Shanica O'Connor

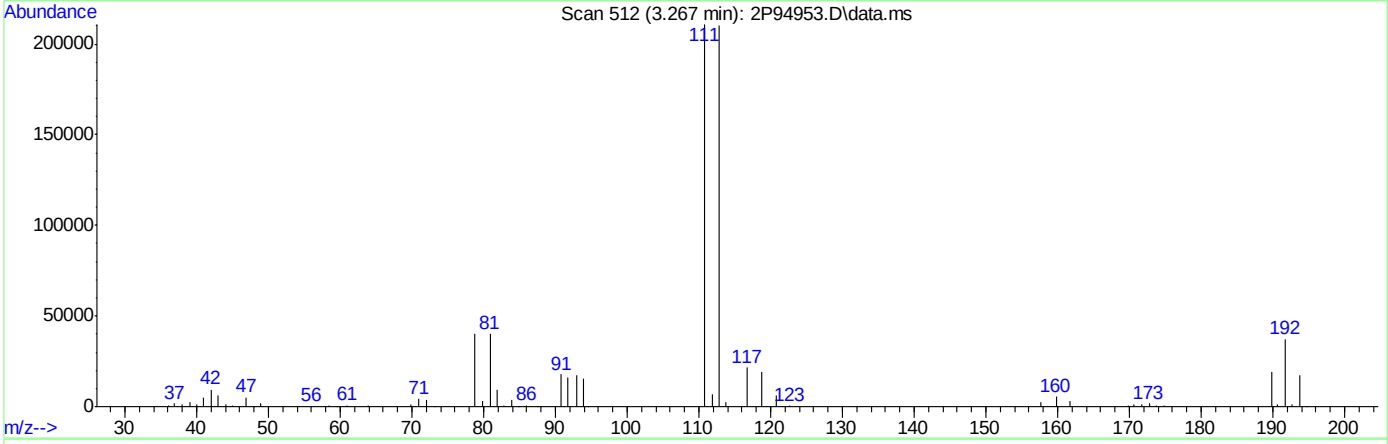
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94953.D
Acq On : 4 Nov 2022 11:12 am
Operator : courtnef
Sample : IC3622-2
Misc : MS52512,V2P3622,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Nov 04 11:23:28 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94953.D\data.ms

(40) Carbon Tetrachloride ( )

3.267min (+0.000) 5.24ug/L

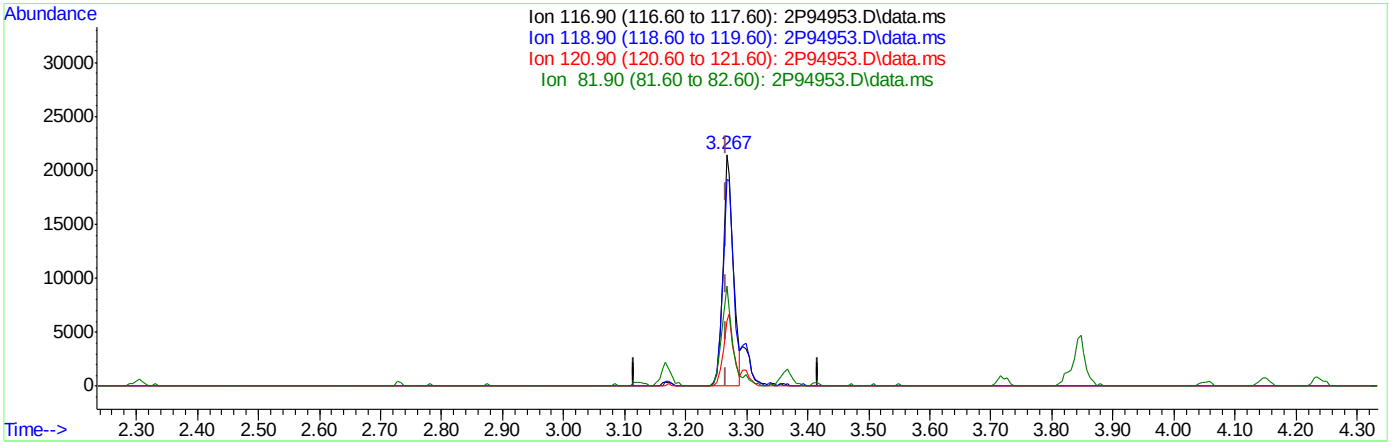
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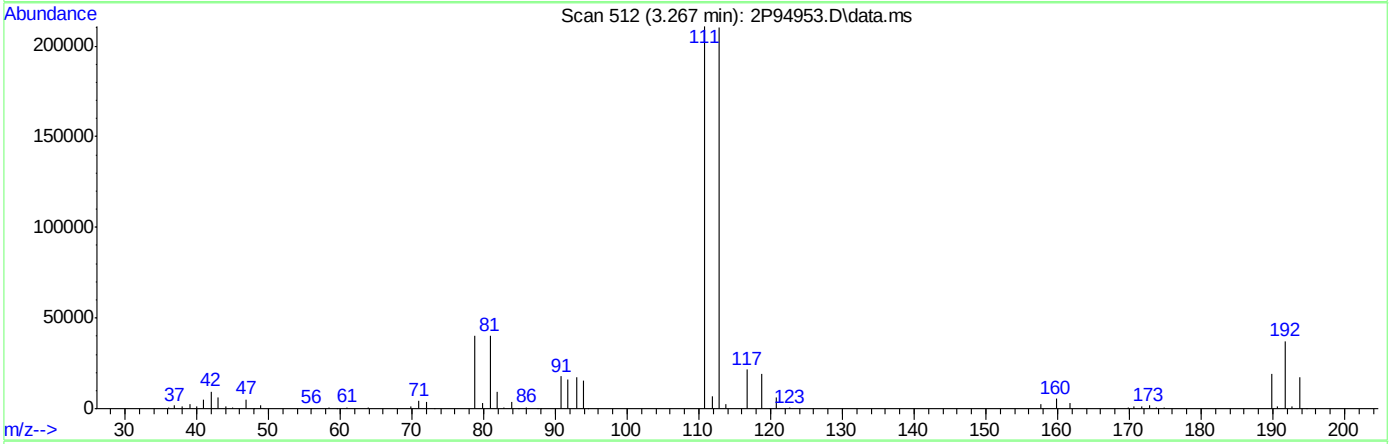
Ion	Exp%	Act%
116.90	100	100
118.90	95.80	89.17
120.90	29.50	28.42
81.90	30.20	43.45

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94953.D
Acq On : 4 Nov 2022 11:12 am
Operator : courtnef
Sample : IC3622-2
Misc : MS52512,V2P3622,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Nov 04 11:23:28 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94953.D\data.ms

(40) Carbon Tetrachloride ( )

3.267min (+0.000) 4.54ug/L m

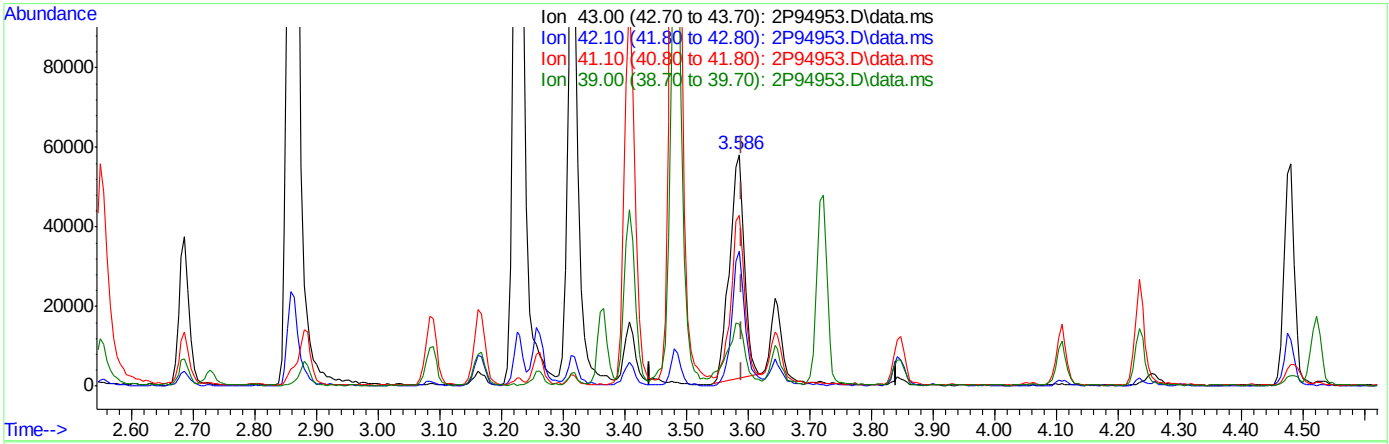
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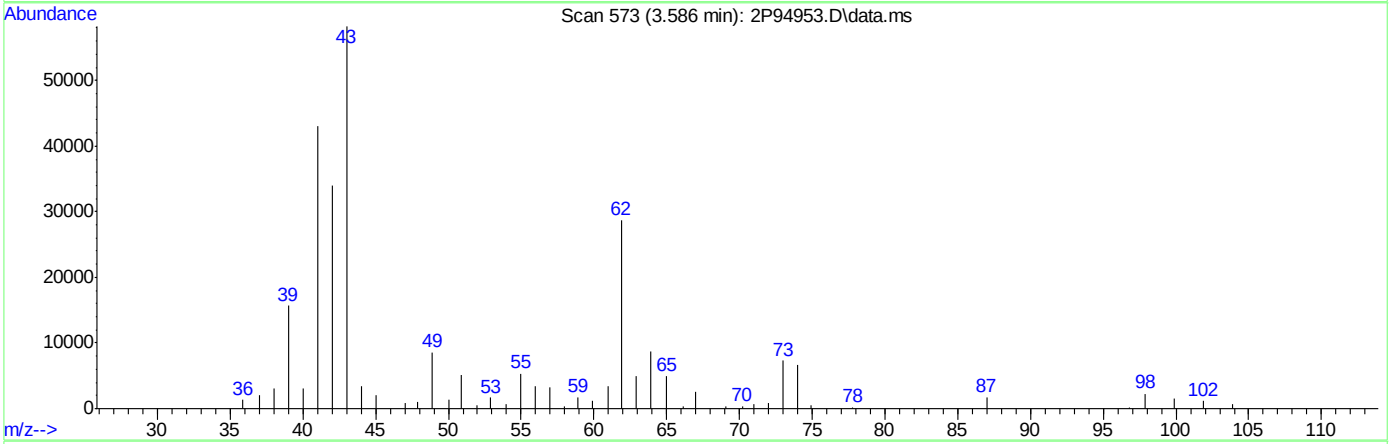
Ion	Exp%	Act%
116.90	100	100
118.90	95.80	89.17
120.90	29.50	28.42
81.90	30.20	43.45

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94953.D
Acq On : 4 Nov 2022 11:12 am
Operator : courtnef
Sample : IC3622-2
Misc : MS52512,V2P3622,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Nov 04 11:23:28 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94953.D\data.ms

(50) Isobutyl alcohol

3.586min (-0.005) 124.37ug/L

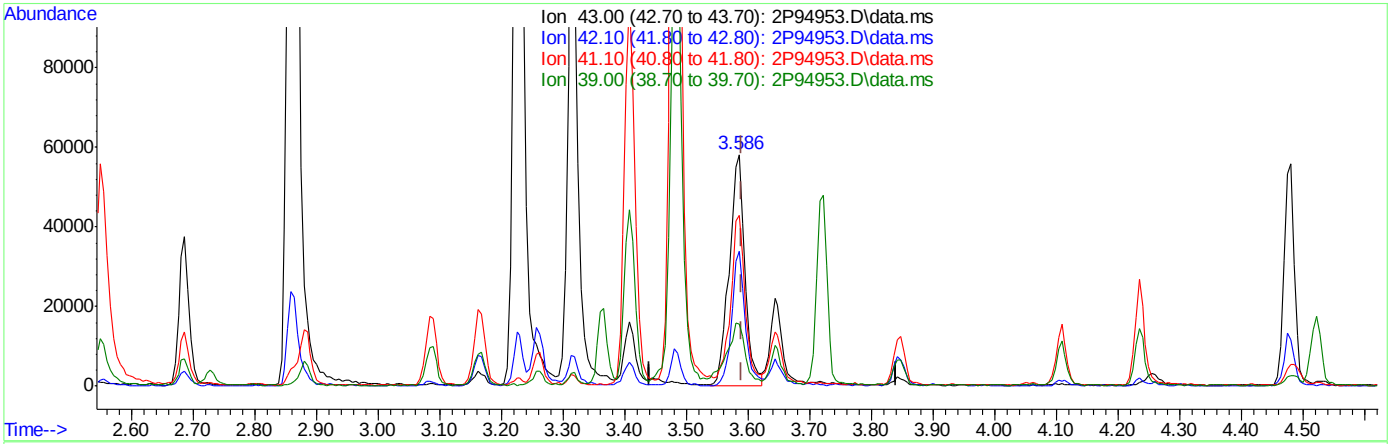
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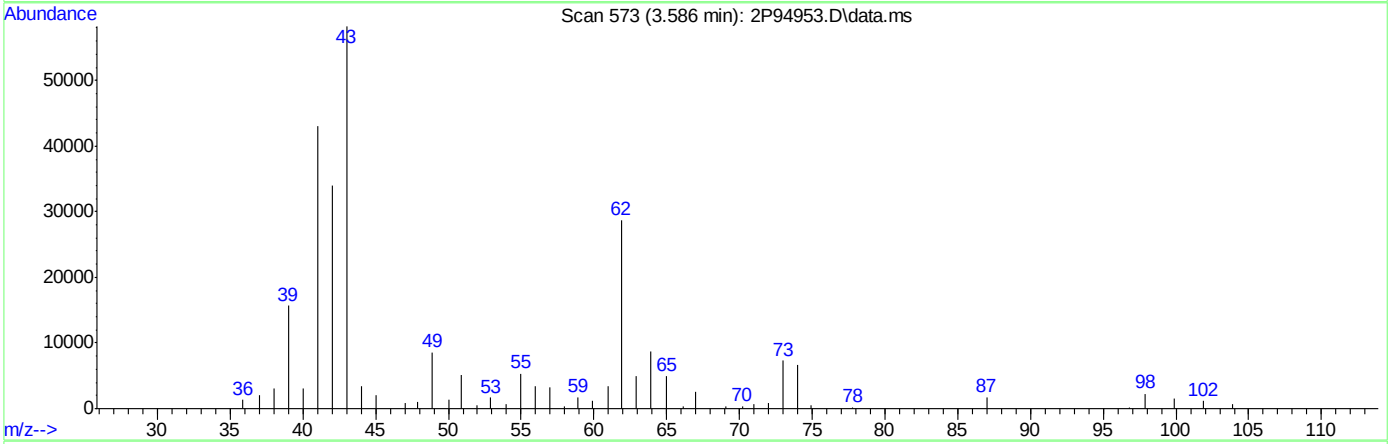
Ion	Exp%	Act%
43.00	100	100
42.10	61.30	58.90
41.10	73.00	71.33
39.00	27.40	24.87

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94953.D
Acq On : 4 Nov 2022 11:12 am
Operator : courtnef
Sample : IC3622-2
Misc : MS52512,V2P3622,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Nov 04 11:23:28 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94953.D\data.ms

(50) Isobutyl alcohol

3.586min (-0.005) 136.04ug/L m

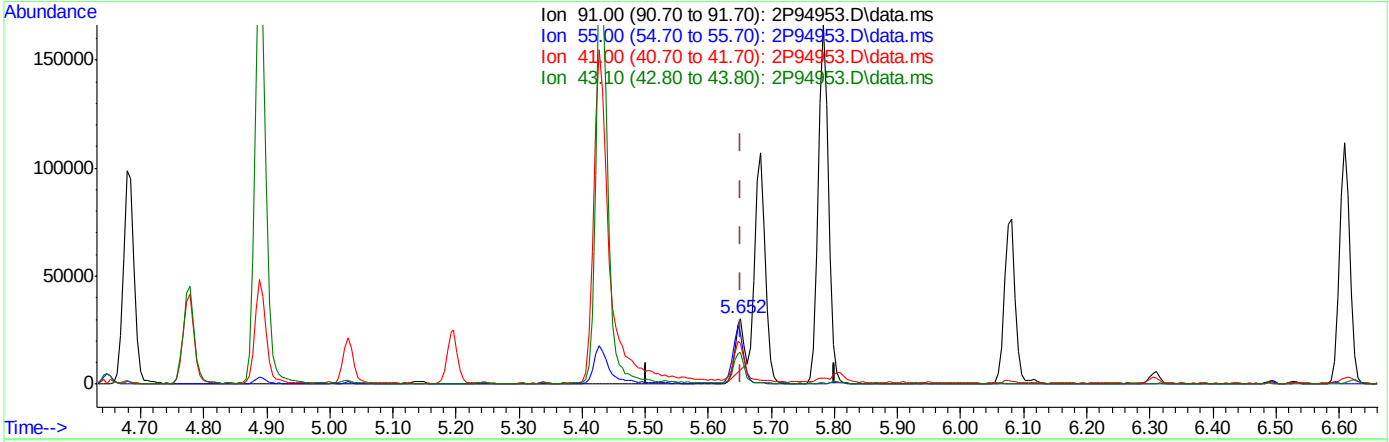
response 101655

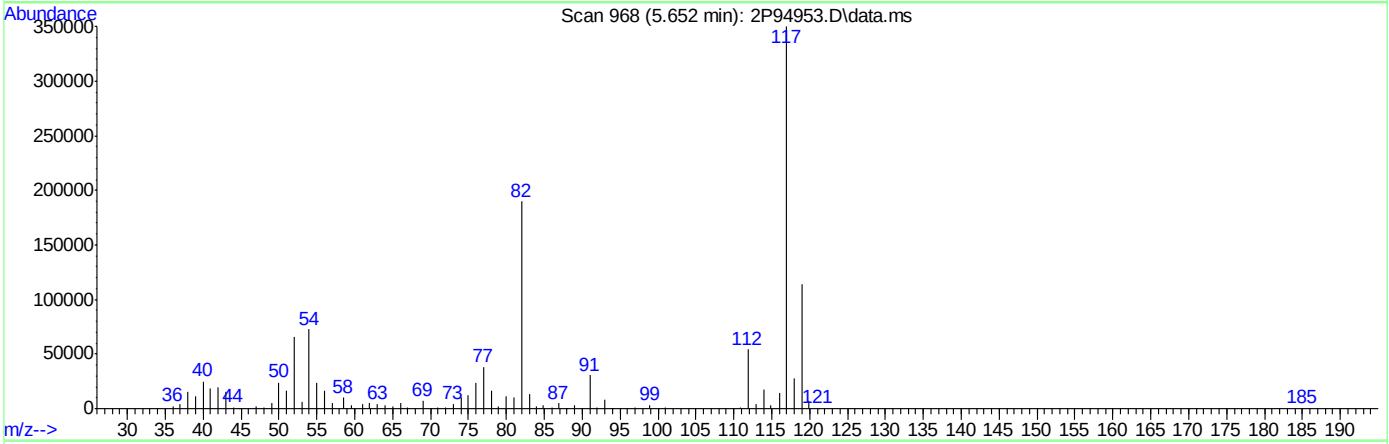
Ion	Exp%	Act%
43.00	100	100
42.10	61.30	58.30
41.10	73.00	73.97
39.00	27.40	26.85

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94953.D
Acq On : 4 Nov 2022 11:12 am
Operator : courtnef
Sample : IC3622-2
Misc : MS52512,V2P3622,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Nov 04 11:23:28 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94953.D\data.ms

(76) 1-Chlorohexane

5.652min (+0.000) 3.66ug/L

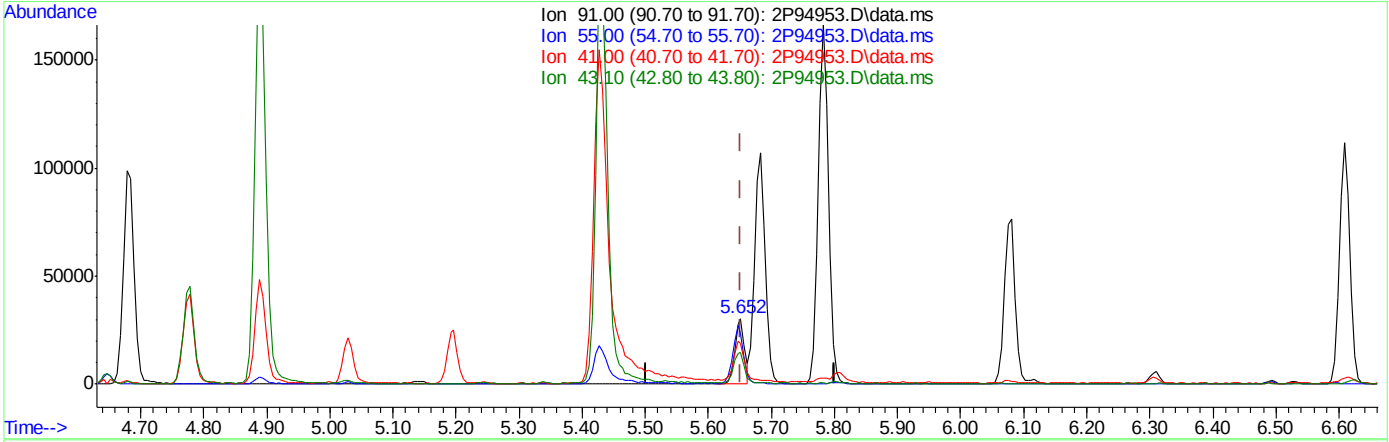
response 23597

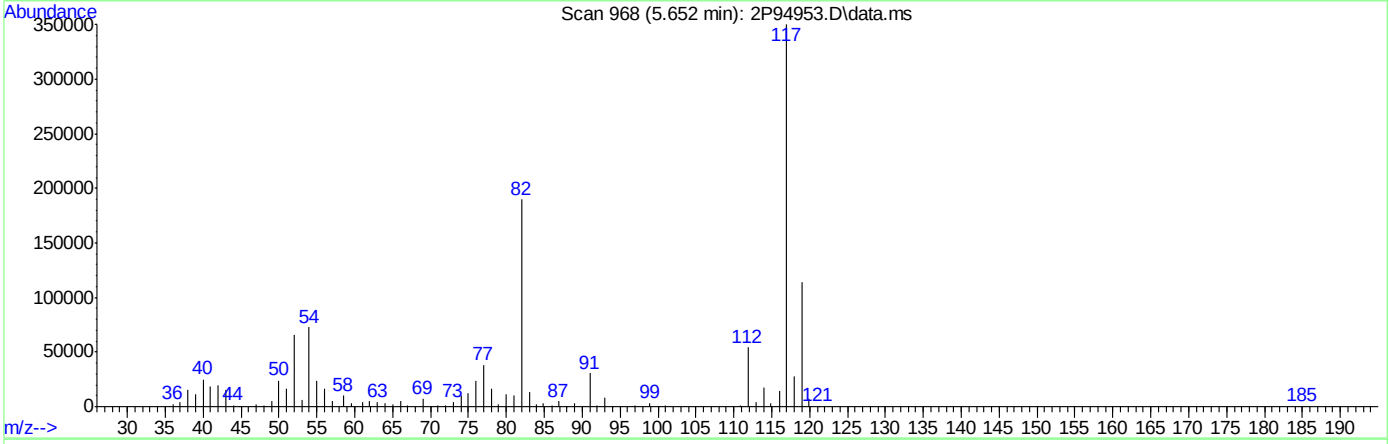
Ion	Exp%	Act%
91.00	100	100
55.00	65.20	66.68
41.00	51.70	53.93
43.10	43.60	45.98

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94953.D
Acq On : 4 Nov 2022 11:12 am
Operator : courtnef
Sample : IC3622-2
Misc : MS52512,V2P3622,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Nov 04 11:23:28 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94953.D\data.ms

(76) 1-Chlorohexane

5.652min (+0.000) 5.24ug/L m

response 33817

Ion	Exp%	Act%
91.00	100	100
55.00	65.20	76.90
41.00	51.70	62.30
43.10	43.60	49.16

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 11/07/22 18:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94955.D
Acq On : 4 Nov 2022 11:45 am
Operator : courtnef
Sample : IC3622-3
Misc : MS52512,V2P3622,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Nov 04 12:47:53 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.722	96	1266569	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	859485	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	367287	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.267	113	256943	46.20	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 92.40%			
49) 1,2-Dichloroethane-d4	3.554	65	368990	50.08	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.16%			
63) Toluene-d8	4.647	98	1229188	51.34	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.68%			
86) 4-Bromofluorobenzene	6.494	174	278755	45.54	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 91.08%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.127	85	43683	8.54	ug/L	100
3) Chloromethane	1.253	50	51907	10.28	ug/L	93
4) 1,3-butadiene	1.321	39	56889	12.72	ug/L	98
5) Vinyl Chloride	1.310	62	57189	10.71	ug/L	97
6) Bromomethane	1.509	94	26851	9.25	ug/L	95
7) Chloroethane	1.588	64	17877	11.94	ug/L	91
8) Trichlorofluoromethane	1.682	101	66568	11.29	ug/L	100
9) Ethyl Ether	1.881	59	47331	11.34	ug/L	93
10) Ethanol	1.954	45	33420	237.04	ug/L	85
11) 1,2-Dichlorotrifluoroe...	1.980	67	55408	10.50	ug/L	96
12) 1,1-Dichloroethene	1.985	61	66079	9.87	ug/L	98
13) Freon 113	2.022	101	40077	9.67	ug/L	95
14) Carbon Disulfide	2.006	76	121314	10.68	ug/L	97
15) Iodomethane	2.064	142	23102	5.85	ug/L	99
16) Acrolein	2.158	56	66994	44.49	ug/L	97
17) Allyl chloride	2.252	41	57115	10.64	ug/L	96
18) Methylene Chloride	2.304	49	111469	16.51	ug/L	93
19) Acetone	2.315	43	170601	55.81	ug/L	96
20) Methyl acetate	2.398	43	351548	57.63	ug/L	96
21) trans-1,2-Dichloroethene	2.404	61	67098	10.18	ug/L	89
22) Hexane	2.472	56	34150	10.38	ug/L	89
23) Methyl Tert Butyl Ether	2.472	73	155521	11.50	ug/L	93
24) Tert Butyl Alcohol	2.503	59	167926	137.99	ug/L	89
25) Acetonitrile	2.555	41	132842	142.57	ug/L	97
26) Di-isopropyl ether	2.686	45	163188	11.29	ug/L	97
27) Chloroprene	2.728	53	252718	10.56	ug/L	95
28) 1,1-Dichloroethane	2.733	63	85642	10.23	ug/L	97
29) Acrylonitrile	2.728	52	167414	54.56	ug/L	94
30) ETBE	2.885	59	157706	11.75	ug/L	98
31) Vinyl acetate	2.864	43	645759	59.38	ug/L	99
32) cis-1,2-Dichloroethene	3.026	96	47603	9.50	ug/L	97
33) 2,2-Dichloropropane	3.089	77	69261	10.25	ug/L	98
34) Bromochloromethane	3.131	128	20069	9.21	ug/L	95
35) Cyclohexane	3.167	56	77380	10.29	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94955.D
Acq On : 4 Nov 2022 11:45 am
Operator : courtnef
Sample : IC3622-3
Misc : MS52512,V2P3622,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Nov 04 12:47:53 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.167	83	84608	9.82	ug/L		98
37) Ethyl acetate	3.230	43	461793	57.34	ug/L		98
38) Tetrahydrofuran	3.261	42	33828	10.63	ug/L		95
40) Carbon Tetrachloride	3.272	117	51424m	8.92	ug/L		
41) 1,1,1-Trichloroethane	3.298	97	68183	9.11	ug/L		97
42) 2-Butanone	3.319	43	260429	50.66	ug/L		96
43) 1,1-Dichloropropene	3.366	75	64270	9.55	ug/L		93
44) tert-Butyl formate	3.408	59	160304	94.31	ug/L	#	71
45) Propionitrile	3.460	54	150528	112.77	ug/L		99
46) Methacrylonitrile	3.486	41	515779	117.38	ug/L		99
47) Benzene	3.497	78	205823	10.15	ug/L		97
48) TAME	3.570	73	147291	12.12	ug/L		88
50) Isobutyl alcohol	3.586	43	186775m	244.20	ug/L		
51) 1,2-Dichloroethane	3.591	62	68554	9.62	ug/L		96
52) Tert Amyl Alcohol	3.648	59	135842	144.73	ug/L		86
53) Trichloroethene	3.826	95	48522	9.24	ug/L		97
54) Methylcyclohexane	3.847	83	67818	9.56	ug/L		91
55) Dibromomethane	4.051	93	27946	9.36	ug/L		90
56) 1,2-Dichloropropane	4.109	63	49676	10.23	ug/L		95
57) Bromodichloromethane	4.145	83	49986	8.88	ug/L		95
58) Methyl methacrylate	4.234	41	53426	9.66	ug/L		93
59) 1,4-Dioxane	4.260	88	26284	201.06	ug/L		98
60) 2-Chloroethyl vinyl ether	4.480	63	152854	42.71	ug/L		94
61) cis-1,3-Dichloropropene	4.522	75	68254	9.42	ug/L		98
64) Toluene	4.684	91	214565	10.00	ug/L		99
65) 2-Nitropropane	4.778	41	94641	53.03	ug/L		94
66) 4-Methyl-2-pentanone	4.888	43	441946	52.58	ug/L		95
67) trans-1,3-Dichloropropene	4.919	75	61232	9.66	ug/L		87
68) Tetrachloroethene	4.935	166	42004	8.58	ug/L		97
69) Ethyl methacrylate	5.029	69	66487	9.40	ug/L		94
70) 1,1,2-Trichloroethane	5.019	83	37029	10.00	ug/L		95
71) Dibromochloromethane	5.144	129	32856	8.70	ug/L		97
72) 1,3-Dichloropropane	5.196	76	81138	9.91	ug/L		92
73) 1,2-Dibromoethane	5.296	107	40926	8.82	ug/L		99
74) 3,3-dimethyl-1-butanol	5.427	57	620063	448.05	ug/L		96
75) 2-hexanone	5.432	43	483409	53.40	ug/L		78
76) 1-Chlorohexane	5.651	91	60952m	9.16	ug/L		
77) Ethylbenzene	5.683	91	233598	10.00	ug/L		99
78) Chlorobenzene	5.657	112	122620	9.68	ug/L		96
79) 1,1,1,2-Tetrachloroethane	5.699	131	36336	9.04	ug/L		96
80) m,p-Xylene	5.782	91	356339	19.41	ug/L		99
81) o-Xylene	6.075	91	178699	9.58	ug/L		96
82) Styrene	6.112	104	124090	8.77	ug/L		97
83) Bromoform	6.117	173	16233	7.89	ug/L		95
84) Isopropylbenzene	6.310	105	197470	9.28	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.525	53	20236	9.71	ug/L	#	79
88) n-Propylbenzene	6.609	91	242194	10.01	ug/L		100
89) Bromobenzene	6.572	156	43650	8.95	ug/L		88
90) 1,1,2,2-Tetrachloroethane	6.630	83	68311	10.50	ug/L		98
91) 1,3,5-Trimethylbenzene	6.755	105	161643	9.67	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94955.D
Acq On : 4 Nov 2022 11:45 am
Operator : courtnef
Sample : IC3622-3
Misc : MS52512,V2P3622,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Nov 04 12:47:53 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

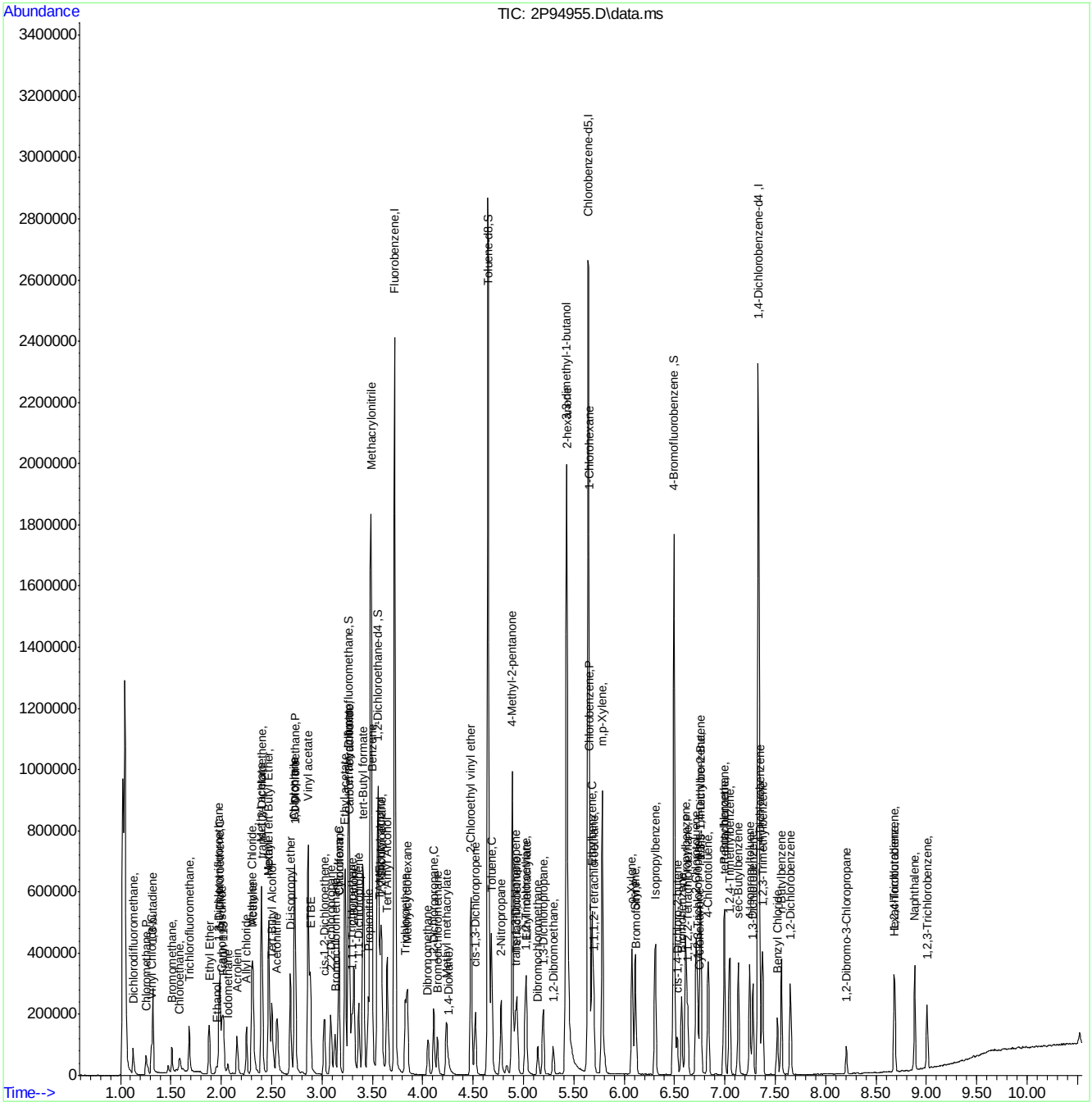
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.713	91	145876	9.89	ug/L		98
93)	trans-1,4-Dichloro-2-B...	6.755	53	23779	9.73	ug/L		82
94)	1,2,3-Trichloropropane	6.729	110	24423	10.08	ug/L		89
95)	Cyclohexanone	6.745	55	25711	54.80	ug/L		96
96)	4-Chlorotoluene	6.833	91	152905	10.02	ug/L		98
97)	tert-Butylbenzene	6.990	91	91544	9.66	ug/L		91
99)	1,2,4-Trimethylbenzene	7.048	105	156762	9.58	ug/L		96
100)	Pentachloroethane	6.996	167	17951	9.02	ug/L	#	76
101)	sec-Butylbenzene	7.132	105	177054	9.72	ug/L		98
102)	4-Isopropyltoluene	7.247	119	147403	9.41	ug/L		97
103)	1,3-Dichlorobenzene	7.278	146	78774	9.11	ug/L		94
104)	1,2,3-Trimethylbenzene	7.372	105	154138	9.50	ug/L		99
105)	1,4-Dichlorobenzene	7.346	146	84555	9.49	ug/L		96
106)	n-Butylbenzene	7.560	92	75217	9.83	ug/L		97
107)	Benzyl Chloride	7.519	126	16298	8.65	ug/L	#	80
108)	1,2-Dichlorobenzene	7.649	146	74066	9.08	ug/L		97
109)	1,2-Dibromo-3-Chloropr...	8.204	75	13543	9.33	ug/L	#	81
110)	Hexachlorobutadiene	8.685	225	13132	7.71	ug/L		97
111)	1,2,4-Trichlorobenzene	8.680	180	37173	8.03	ug/L		98
112)	Naphthalene	8.884	128	154544	8.68	ug/L		100
113)	1,2,3-Trichlorobenzene	9.009	180	35031	8.08	ug/L		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94955.D
Acq On : 4 Nov 2022 11:45 am
Operator : courtnef
Sample : IC3622-3
Misc : MS52512,V2P3622,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Nov 04 12:47:53 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration



Manual Integration Approval Summary

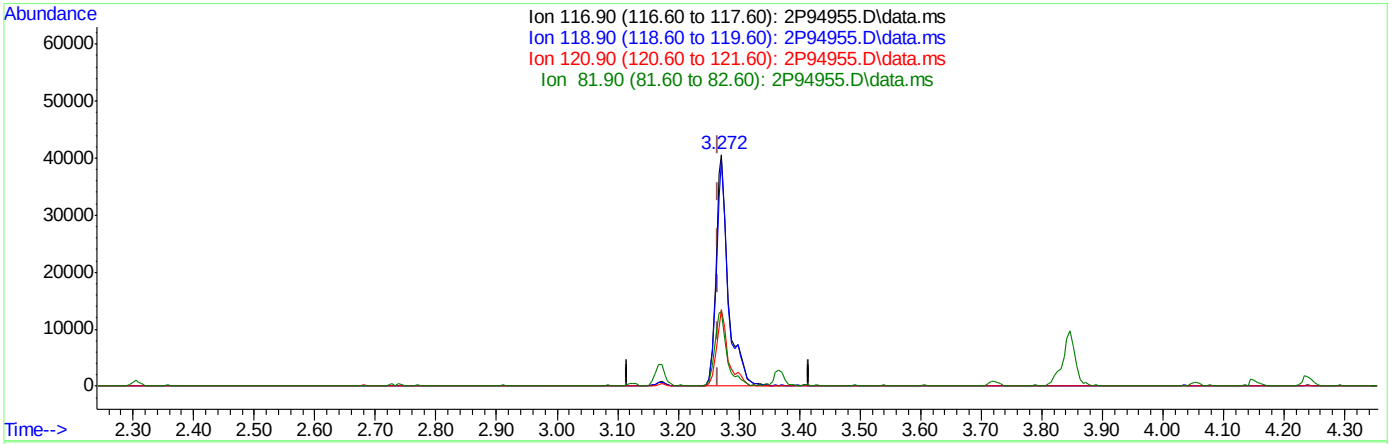
Sample Number: V2P3622-IC3622 **Method:** SW846 8260D
Lab FileID: 2P94955.D **Analyst approved:** 11/04/22 12:50 Courtney Failla
Injection Time: 11/04/22 11:45 **Supervisor approved:** 11/07/22 18:21 Shanica O'Connor

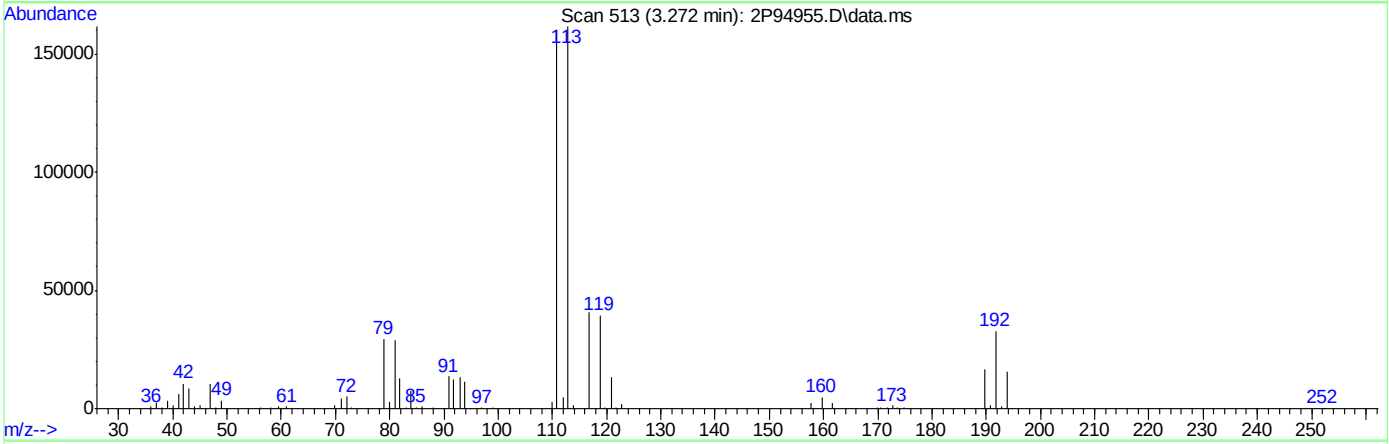
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94955.D
Acq On : 4 Nov 2022 11:45 am
Operator : courtnef
Sample : IC3622-3
Misc : MS52512,V2P3622,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Nov 04 12:46:39 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94955.D\data.ms

(40) Carbon Tetrachloride ( )

3.272min (+0.005) 10.02ug/L

response 57809

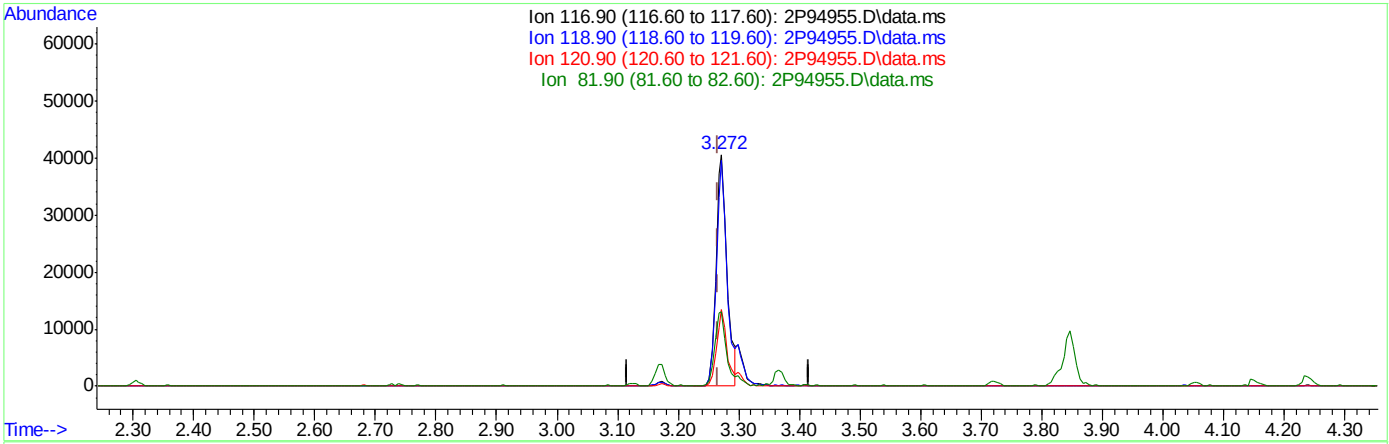
Ion	Exp%	Act%
116.90	100	100
118.90	95.80	97.34
120.90	29.50	32.98
81.90	30.20	31.89

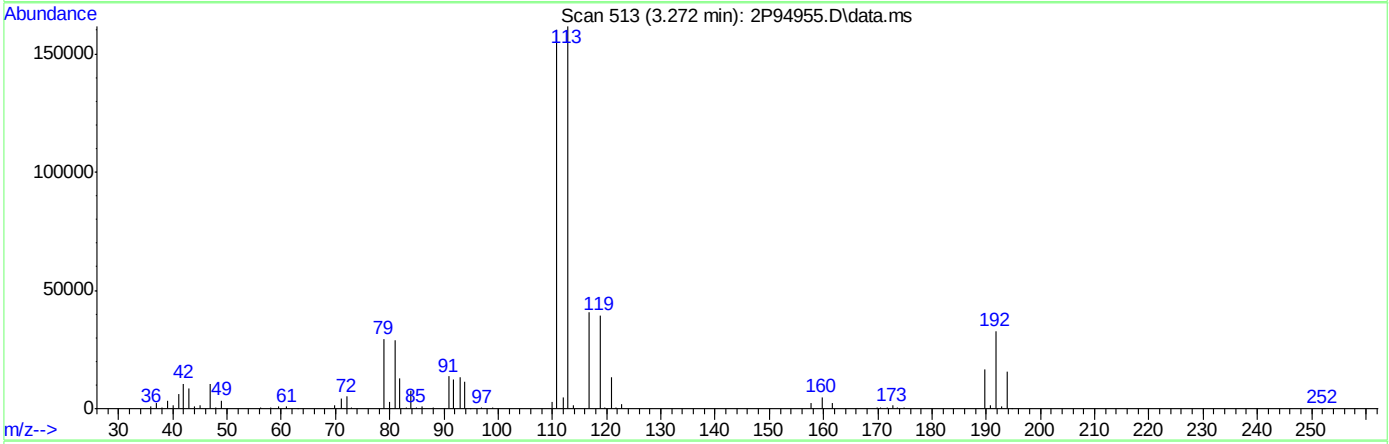
2P94955.D edits: Carbon Tetrachloride

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94955.D
Acq On : 4 Nov 2022 11:45 am
Operator : courtnef
Sample : IC3622-3
Misc : MS52512,V2P3622,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Nov 04 12:46:39 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94955.D\data.ms

(40) Carbon Tetrachloride ( )

3.272min (+0.005) 8.92ug/L m

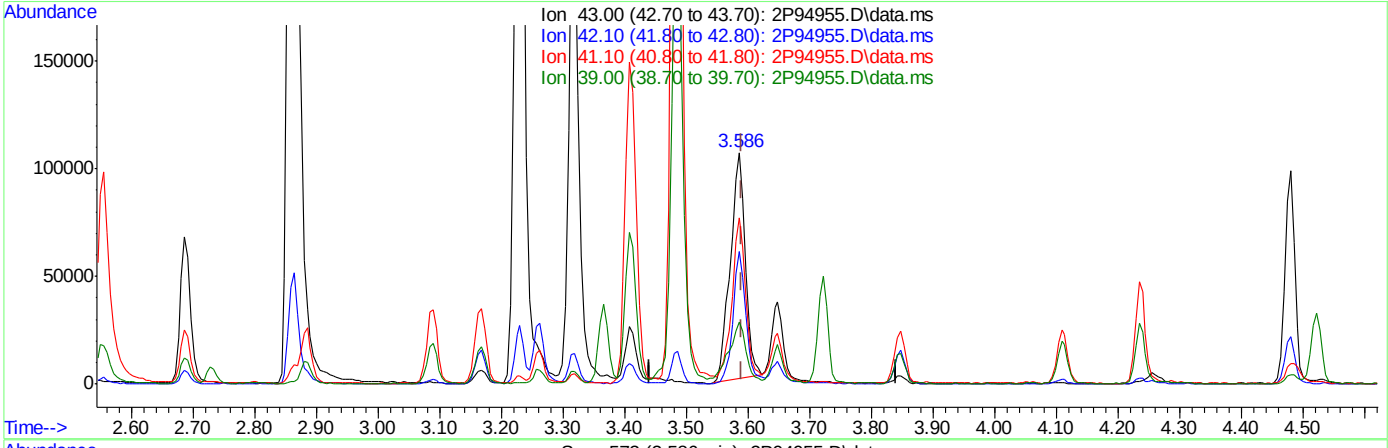
response 51424

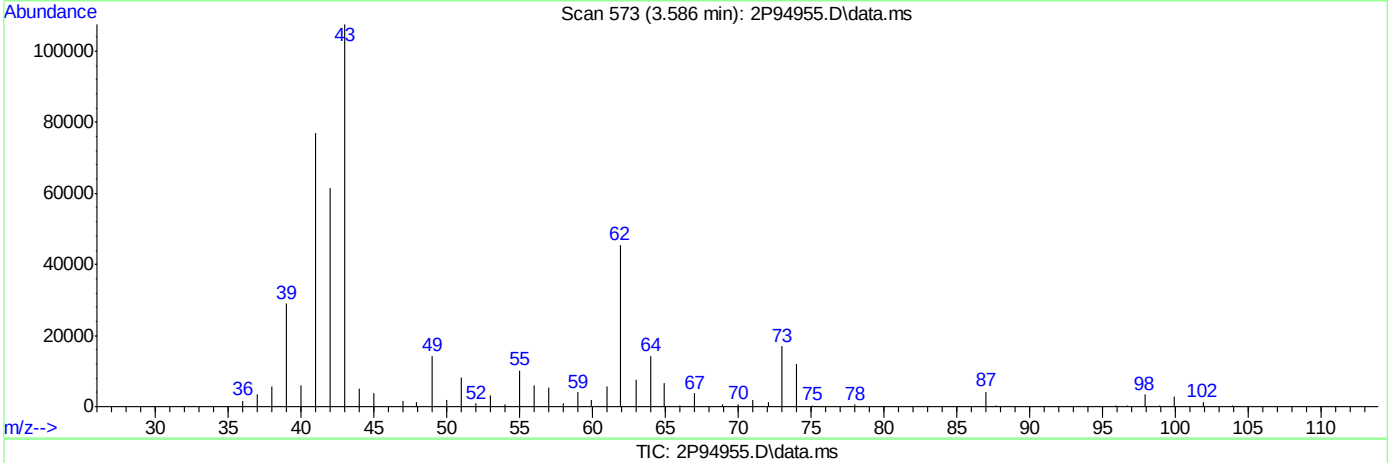
Ion	Exp%	Act%
116.90	100	100
118.90	95.80	97.34
120.90	29.50	32.98
81.90	30.20	31.89

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94955.D
Acq On : 4 Nov 2022 11:45 am
Operator : courtnef
Sample : IC3622-3
Misc : MS52512,V2P3622,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Nov 04 12:46:39 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94955.D\data.ms

(50) Isobutyl alcohol

3.586min (-0.005) 227.98ug/L

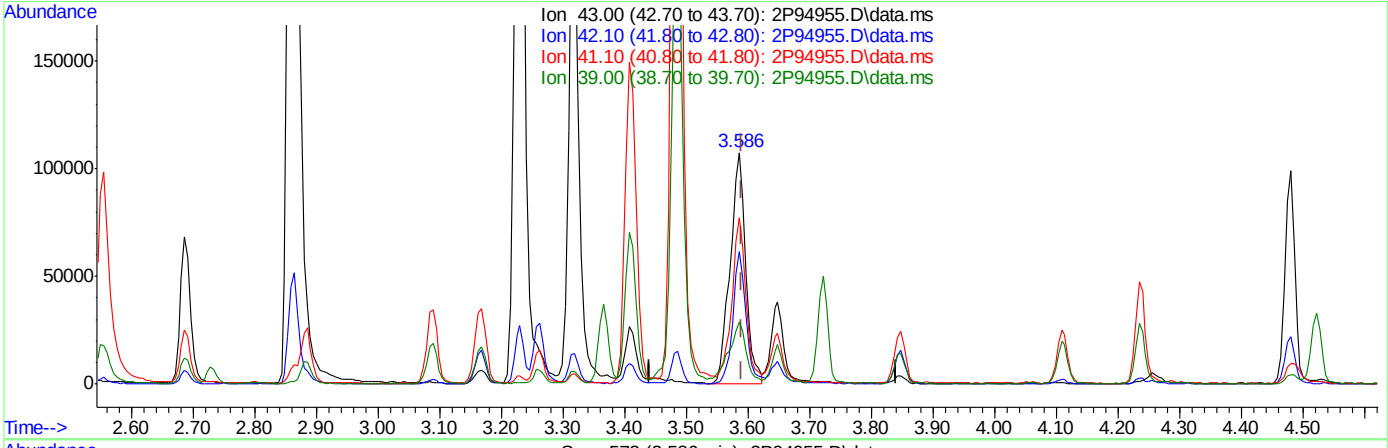
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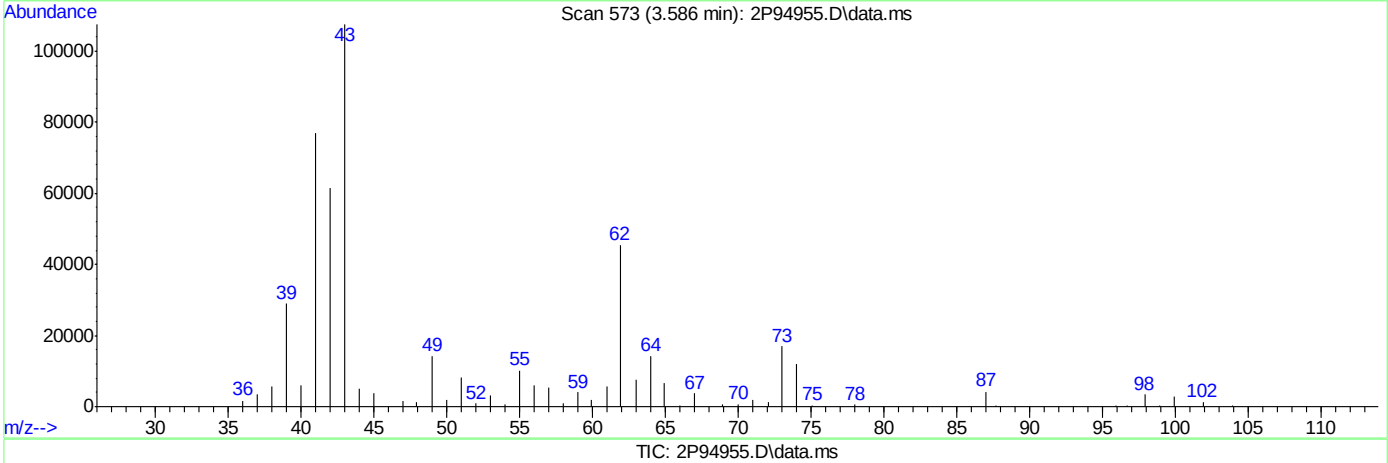
Ion	Exp%	Act%
43.00	100	100
42.10	61.30	57.10
41.10	73.00	68.48
39.00	27.40	25.45

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94955.D
Acq On : 4 Nov 2022 11:45 am
Operator : courtnef
Sample : IC3622-3
Misc : MS52512,V2P3622,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Nov 04 12:46:39 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94955.D\data.ms

(50) Isobutyl alcohol

3.586min (-0.005) 244.20ug/L m

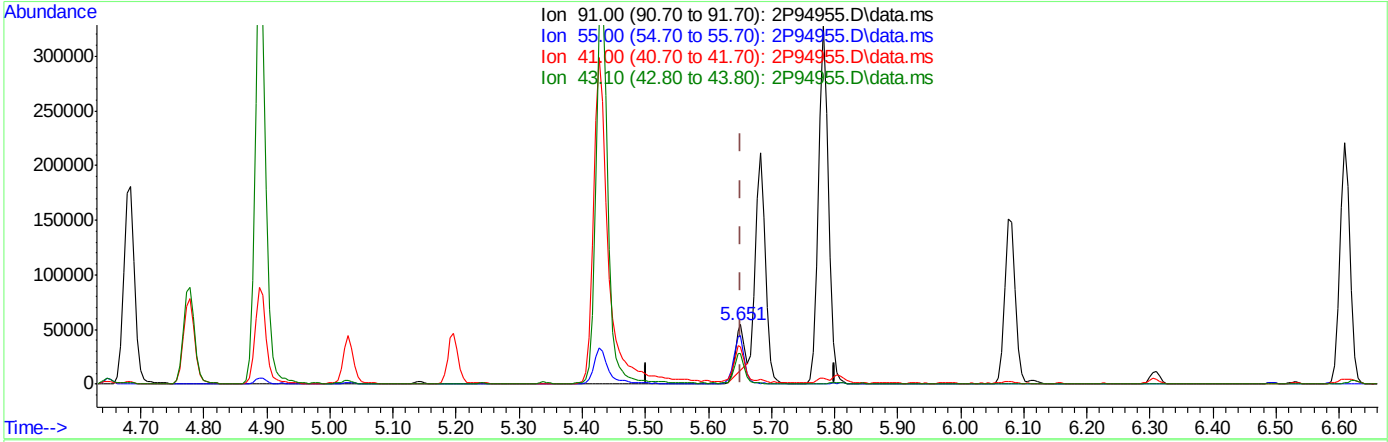
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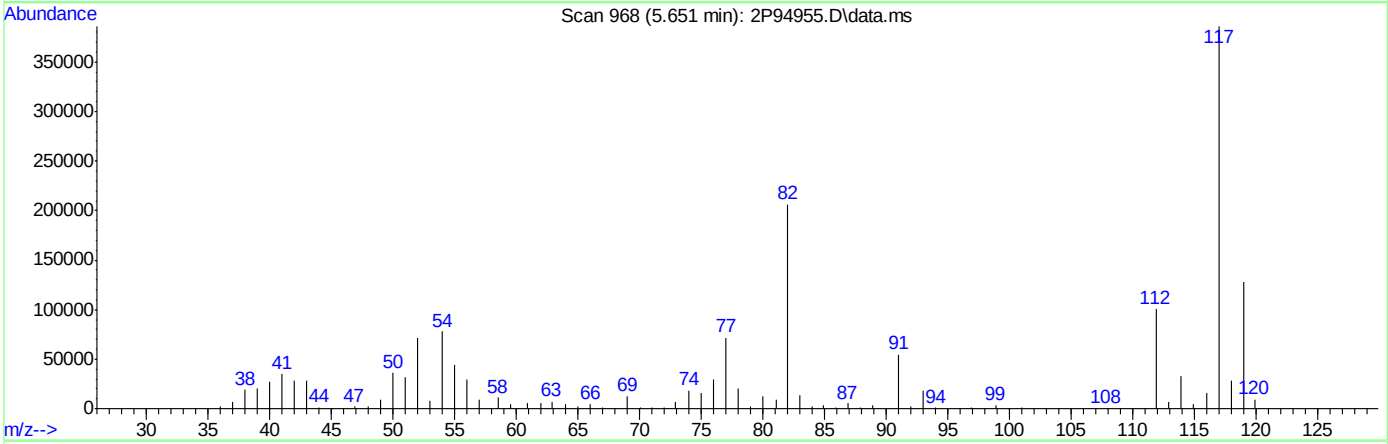
Ion	Exp%	Act%
43.00	100	100
42.10	61.30	57.14
41.10	73.00	71.56
39.00	27.40	26.93

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94955.D
Acq On : 4 Nov 2022 11:45 am
Operator : courtnef
Sample : IC3622-3
Misc : MS52512,V2P3622,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Nov 04 12:46:39 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94955.D\data.ms

(76) 1-Chlorohexane

5.651min (-0.000) 6.27ug/L

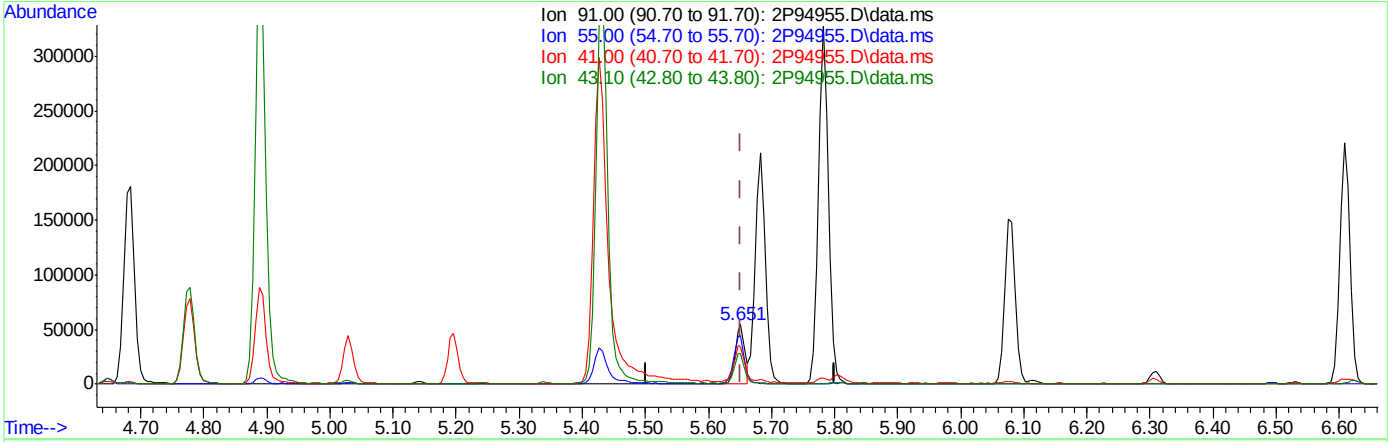
response 41728

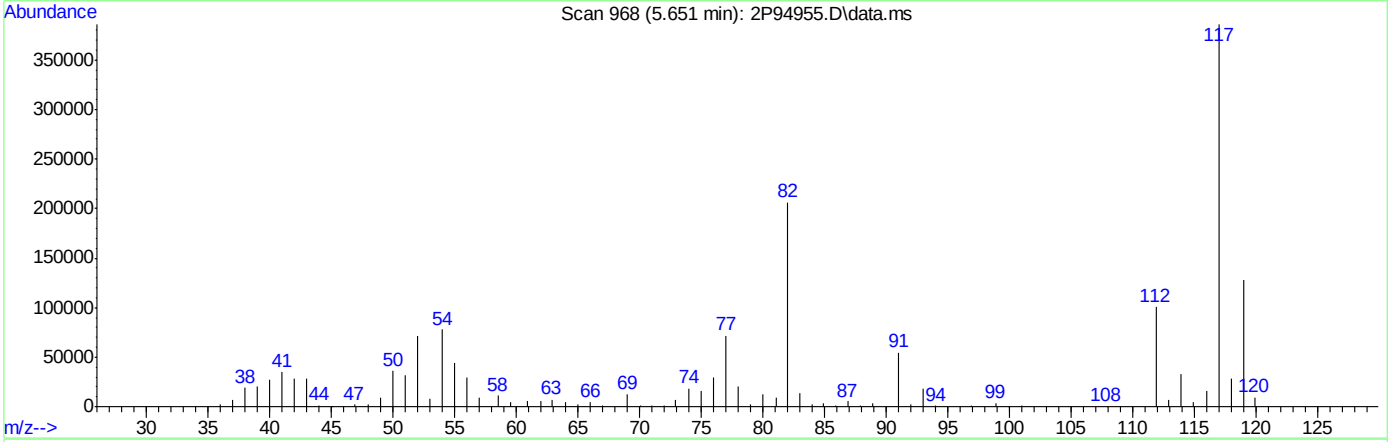
Ion	Exp%	Act%
91.00	100	100
55.00	65.20	76.02
41.00	51.70	57.78
43.10	43.60	49.87

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94955.D
Acq On : 4 Nov 2022 11:45 am
Operator : courtnef
Sample : IC3622-3
Misc : MS52512,V2P3622,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Nov 04 12:46:39 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94955.D\data.ms

(76) 1-Chlorohexane

5.651min (-0.000) 9.16ug/L m

response 60952

Ion	Exp%	Act%
91.00	100	100
55.00	65.20	81.43
41.00	51.70	63.38
43.10	43.60	51.52

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 11/07/22 18:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94957.D
Acq On : 4 Nov 2022 12:17 pm
Operator : courtnef
Sample : IC3622-4
Misc : MS52512,V2P3622,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Nov 04 12:49:41 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.722	96	1313478	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	906461	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.331	152	391732	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.267	113	275020	47.69	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.38%			
49) 1,2-Dichloroethane-d4	3.549	65	386906	50.63	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.26%			
63) Toluene-d8	4.648	98	1271772	50.37	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.74%			
86) 4-Bromofluorobenzene	6.494	174	299260	45.84	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 91.68%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.123	85	118432	22.33	ug/L	100
3) Chloromethane	1.248	50	135211	25.82	ug/L	96
4) 1,3-butadiene	1.316	39	146535	31.59	ug/L	98
5) Vinyl Chloride	1.300	62	147582	26.65	ug/L	99
6) Bromomethane	1.510	94	65854	21.88	ug/L	99
7) Chloroethane	1.583	64	41504	27.04	ug/L	97
8) Trichlorofluoromethane	1.672	101	169806	27.78	ug/L	97
9) Ethyl Ether	1.876	59	121908	28.15	ug/L	92
10) Ethanol	1.965	45	80220	584.25	ug/L	94
11) 1,2-Dichlorotrifluoroe...	1.975	67	144905	26.47	ug/L	96
12) 1,1-Dichloroethene	1.980	61	182273	26.24	ug/L	98
13) Freon 113	2.017	101	110354	25.68	ug/L	94
14) Carbon Disulfide	2.001	76	333824	28.35	ug/L	97
15) Iodomethane	2.059	142	87931	21.34	ug/L	98
16) Acrolein	2.153	56	189640	121.44	ug/L	100
17) Allyl chloride	2.247	41	159882	28.73	ug/L	95
18) Methylene Chloride	2.299	49	269638	40.66	ug/L	91
19) Acetone	2.315	43	440330	138.90	ug/L	96
20) Methyl acetate	2.393	43	931662	147.27	ug/L	97
21) trans-1,2-Dichloroethene	2.404	61	179217	26.22	ug/L	96
22) Hexane	2.467	56	95810	27.31	ug/L #	89
23) Methyl Tert Butyl Ether	2.472	73	414690	29.57	ug/L	96
24) Tert Butyl Alcohol	2.503	59	421638	334.10	ug/L	85
25) Acetonitrile	2.550	41	318874	300.57	ug/L	97
26) Di-isopropyl ether	2.686	45	435827	29.07	ug/L	99
27) Chloroprene	2.728	53	629188	25.34	ug/L	96
28) 1,1-Dichloroethane	2.728	63	230463	26.55	ug/L	98
29) Acrylonitrile	2.728	52	414664	130.32	ug/L	92
30) ETBE	2.880	59	426252	30.62	ug/L	98
31) Vinyl acetate	2.859	43	1616876	143.37	ug/L	100
32) cis-1,2-Dichloroethene	3.021	96	127804	24.58	ug/L	97
33) 2,2-Dichloropropane	3.084	77	192668	27.50	ug/L	98
34) Bromochloromethane	3.126	128	55605	24.61	ug/L	91
35) Cyclohexane	3.162	56	213606	27.38	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94957.D
Acq On : 4 Nov 2022 12:17 pm
Operator : courtnef
Sample : IC3622-4
Misc : MS52512,V2P3622,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Nov 04 12:49:41 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.168	83	225710	25.26	ug/L		99
37) Ethyl acetate	3.225	43	1129149	135.21	ug/L		98
38) Tetrahydrofuran	3.256	42	91051	27.59	ug/L		98
40) Carbon Tetrachloride	3.267	117	140040m	23.41	ug/L		
41) 1,1,1-Trichloroethane	3.293	97	190691	24.56	ug/L		97
42) 2-Butanone	3.314	43	666925	125.11	ug/L		96
43) 1,1-Dichloropropene	3.366	75	176318	25.27	ug/L		98
44) tert-Butyl formate	3.408	59	502091	253.19	ug/L	#	66
45) Propionitrile	3.460	54	391129	285.25	ug/L		99
46) Methacrylonitrile	3.481	41	1378617	302.53	ug/L		99
47) Benzene	3.497	78	548711	26.09	ug/L		99
48) TAME	3.565	73	392974	31.19	ug/L		90
50) Isobutyl alcohol	3.586	43	492942m	621.49	ug/L		
51) 1,2-Dichloroethane	3.591	62	182734	24.73	ug/L		97
52) Tert Amyl Alcohol	3.649	59	348620	358.16	ug/L		80
53) Trichloroethene	3.827	95	129637	23.79	ug/L		97
54) Methylcyclohexane	3.847	83	191753	26.06	ug/L		95
55) Dibromomethane	4.051	93	74270	23.99	ug/L		91
56) 1,2-Dichloropropane	4.109	63	130478	25.92	ug/L		97
57) Bromodichloromethane	4.146	83	144627	24.77	ug/L		99
58) Methyl methacrylate	4.234	41	158877	27.71	ug/L		94
59) 1,4-Dioxane	4.255	88	68495	505.24	ug/L		94
60) 2-Chloroethyl vinyl ether	4.480	63	446302	120.25	ug/L		96
61) cis-1,3-Dichloropropene	4.522	75	193681	25.76	ug/L		97
64) Toluene	4.679	91	566719	25.04	ug/L		97
65) 2-Nitropropane	4.778	41	291459	145.87	ug/L		98
66) 4-Methyl-2-pentanone	4.888	43	1186611	133.87	ug/L		97
67) trans-1,3-Dichloropropene	4.920	75	174882	26.16	ug/L		87
68) Tetrachloroethene	4.935	166	114095	22.11	ug/L		95
69) Ethyl methacrylate	5.029	69	194473	26.08	ug/L		96
70) 1,1,2-Trichloroethane	5.019	83	101602	26.02	ug/L		98
71) Dibromochloromethane	5.145	129	98216	23.90	ug/L		98
72) 1,3-Dichloropropane	5.197	76	218656	25.33	ug/L		95
73) 1,2-Dibromoethane	5.296	107	116183	23.74	ug/L		97
74) 3,3-dimethyl-1-butanol	5.427	57	1865880	1278.38	ug/L		97
75) 2-hexanone	5.432	43	1352353	141.65	ug/L	#	76
76) 1-Chlorohexane	5.652	91	172680m	24.60	ug/L		
77) Ethylbenzene	5.683	91	629551	25.55	ug/L		99
78) Chlorobenzene	5.652	112	330894	24.77	ug/L		93
79) 1,1,1,2-Tetrachloroethane	5.699	131	104822	24.72	ug/L		98
80) m,p-Xylene	5.783	91	990025	51.13	ug/L		99
81) o-Xylene	6.075	91	481468	24.48	ug/L		99
82) Styrene	6.107	104	357613	23.98	ug/L		96
83) Bromoform	6.117	173	50311	22.09	ug/L		97
84) Isopropylbenzene	6.311	105	560283	24.96	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.525	53	58710	26.41	ug/L	#	88
88) n-Propylbenzene	6.609	91	678553	26.31	ug/L		99
89) Bromobenzene	6.572	156	119316	22.93	ug/L		93
90) 1,1,2,2-Tetrachloroethane	6.630	83	185486	26.72	ug/L		97
91) 1,3,5-Trimethylbenzene	6.755	105	455653	25.57	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94957.D
Acq On : 4 Nov 2022 12:17 pm
Operator : courtnef
Sample : IC3622-4
Misc : MS52512,V2P3622,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Nov 04 12:49:41 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

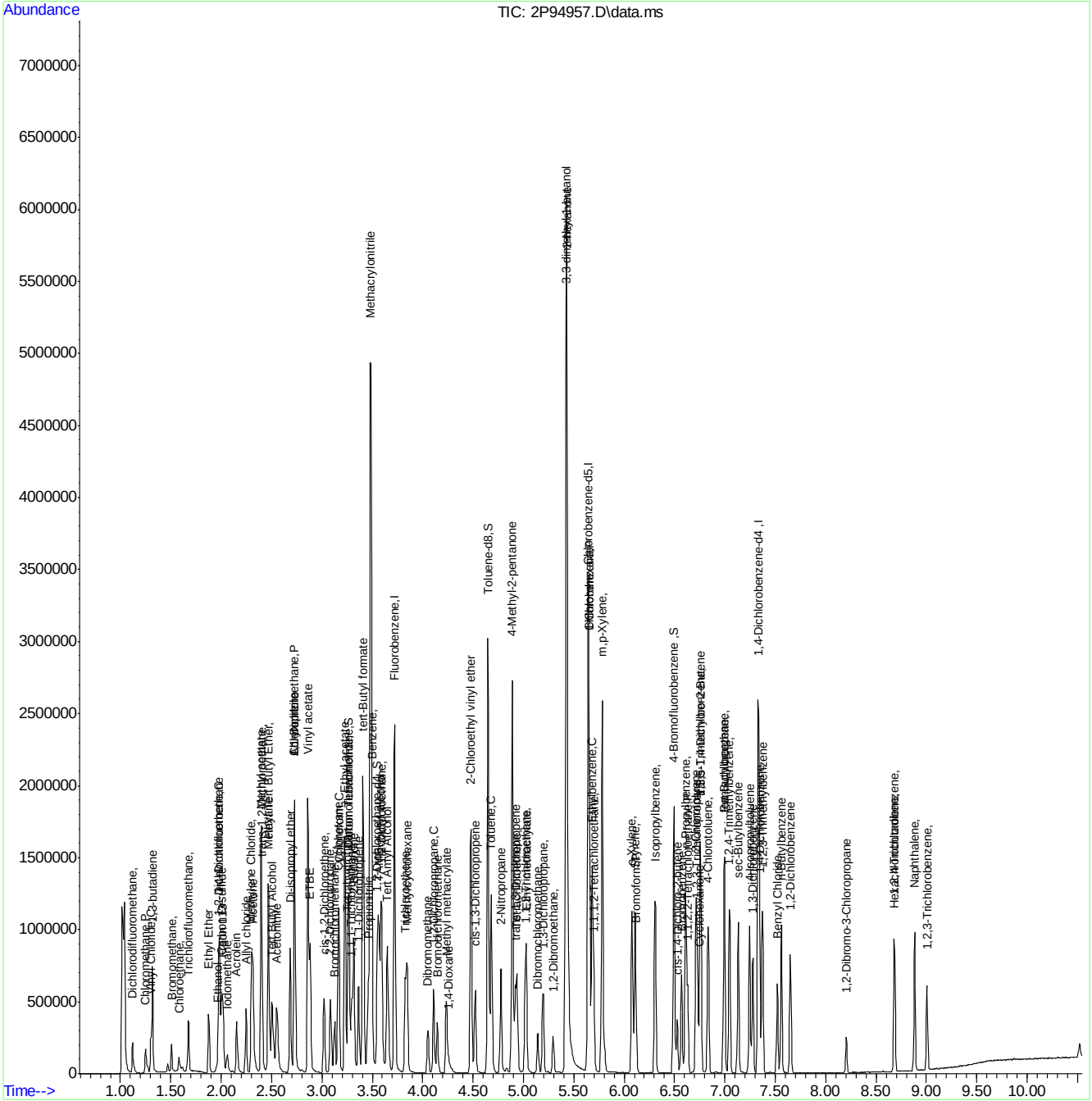
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 2-Chlorotoluene	6.714	91	400829	25.48	ug/L		97
93) trans-1,4-Dichloro-2-B...	6.755	53	68412	26.25	ug/L		93
94) 1,2,3-Trichloropropane	6.724	110	63726	24.65	ug/L		95
95) Cyclohexanone	6.745	55	62614	125.13	ug/L		98
96) 4-Chlorotoluene	6.834	91	415276	25.53	ug/L		99
97) tert-Butylbenzene	6.996	91	255396	25.27	ug/L		97
99) 1,2,4-Trimethylbenzene	7.043	105	441152	25.28	ug/L		98
100) Pentachloroethane	6.996	167	54842	25.83	ug/L	#	88
101) sec-Butylbenzene	7.132	105	500958	25.79	ug/L		98
102) 4-Isopropyltoluene	7.247	119	426009	25.51	ug/L		98
103) 1,3-Dichlorobenzene	7.278	146	221332	24.00	ug/L		96
104) 1,2,3-Trimethylbenzene	7.373	105	438007	25.30	ug/L		99
105) 1,4-Dichlorobenzene	7.346	146	231128	24.33	ug/L		99
106) n-Butylbenzene	7.561	92	214450	26.28	ug/L		97
107) Benzyl Chloride	7.519	126	53680	24.77	ug/L	#	92
108) 1,2-Dichlorobenzene	7.650	146	208099	23.91	ug/L		98
109) 1,2-Dibromo-3-Chloropr...	8.204	75	38822	23.97	ug/L		88
110) Hexachlorobutadiene	8.685	225	36236	19.95	ug/L		95
111) 1,2,4-Trichlorobenzene	8.680	180	106964	21.65	ug/L		97
112) Naphthalene	8.884	128	444121	23.39	ug/L		99
113) 1,2,3-Trichlorobenzene	9.010	180	99462	21.50	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94957.D
Acq On : 4 Nov 2022 12:17 pm
Operator : courtnef
Sample : IC3622-4
Misc : MS52512,V2P3622,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Nov 04 12:49:41 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration



V2P_2022-11-04.M Fri Nov 04 12:50:02 2022 Page: 4

Manual Integration Approval Summary

Sample Number: V2P3622-IC3622
Lab FileID: 2P94957.D
Injection Time: 11/04/22 12:17

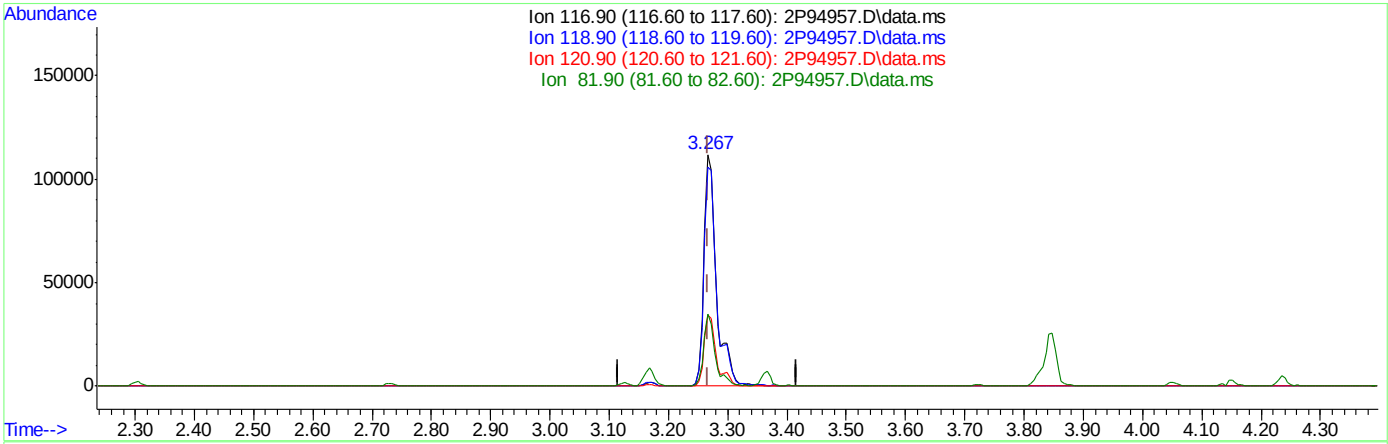
Method: SW846 8260D
Analyst approved: 11/04/22 12:50 Courtney Failla
Supervisor approved: 11/07/22 18:21 Shanica O'Connor

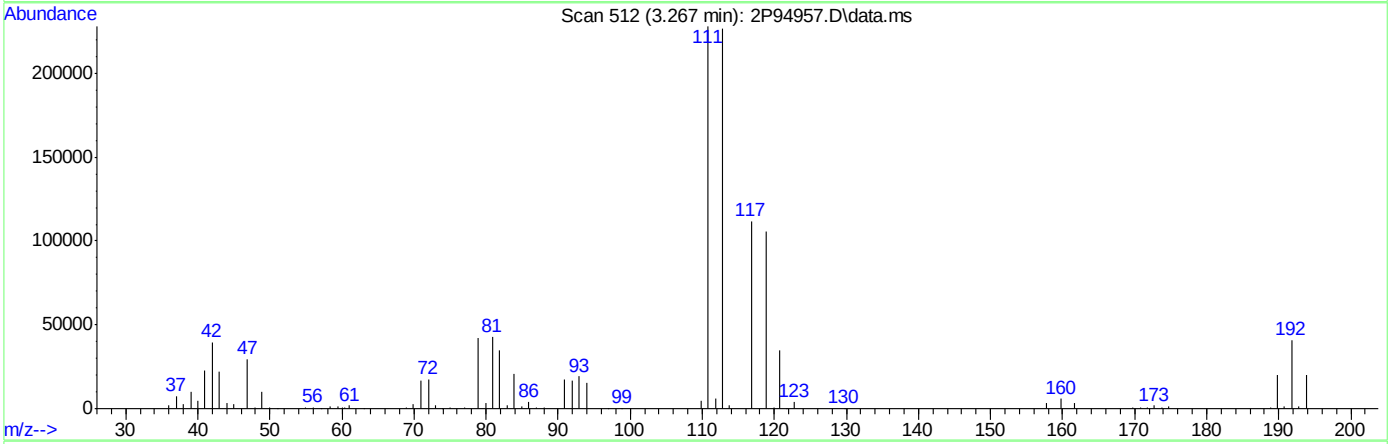
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94957.D
Acq On : 4 Nov 2022 12:17 pm
Operator : courtnef
Sample : IC3622-4
Misc : MS52512,V2P3622,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Nov 04 12:48:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94957.D\data.ms

(40) Carbon Tetrachloride ( )

3.267min (+0.000) 27.26ug/L

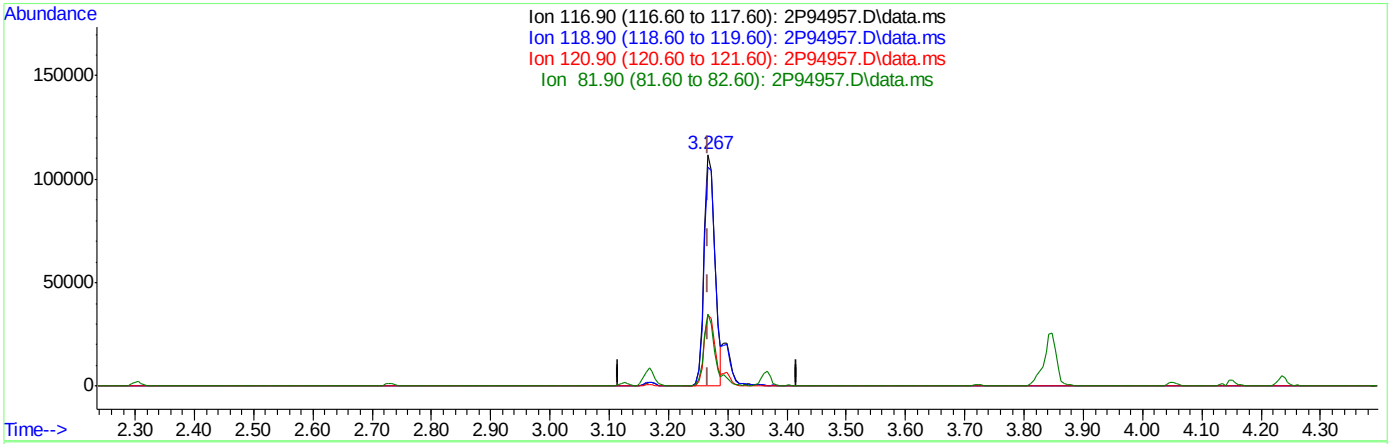
response 163061

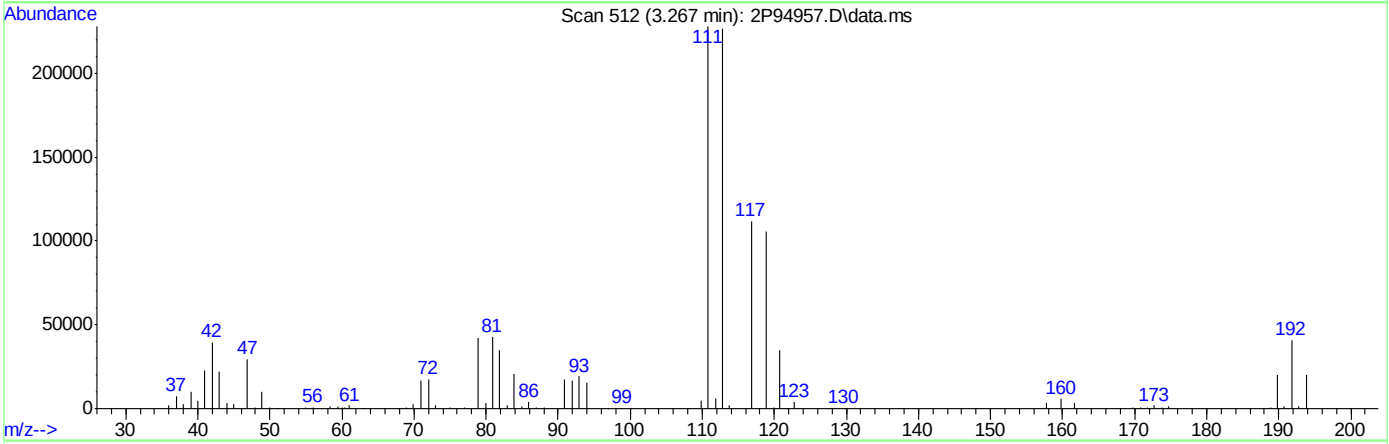
Ion	Exp%	Act%
116.90	100	100
118.90	95.80	94.65
120.90	29.50	30.81
81.90	30.20	30.75

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94957.D
Acq On : 4 Nov 2022 12:17 pm
Operator : courtnef
Sample : IC3622-4
Misc : MS52512,V2P3622,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Nov 04 12:48:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94957.D\data.ms

(40) Carbon Tetrachloride ( )

3.267min (+0.000) 23.41ug/L m

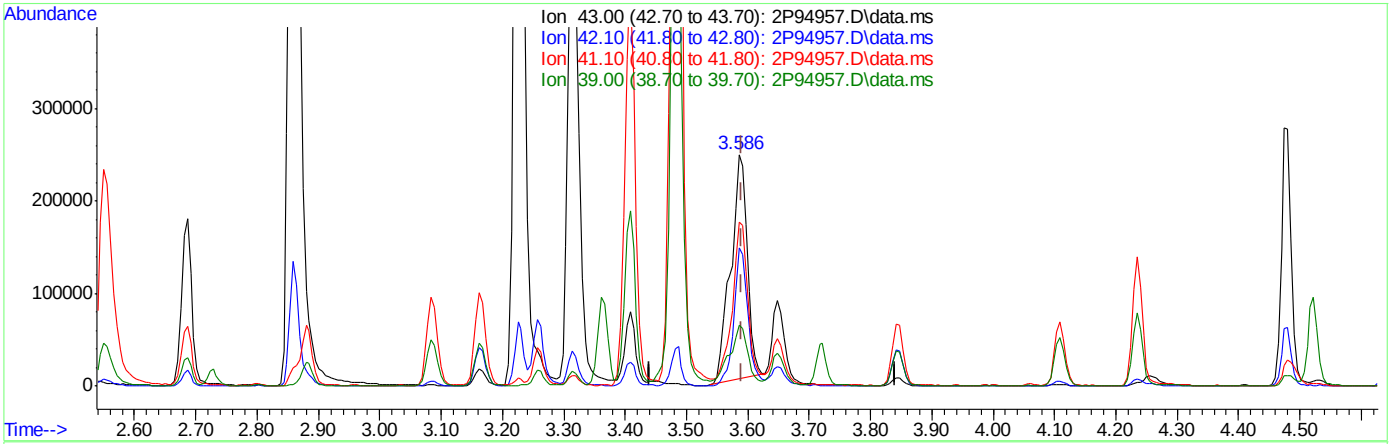
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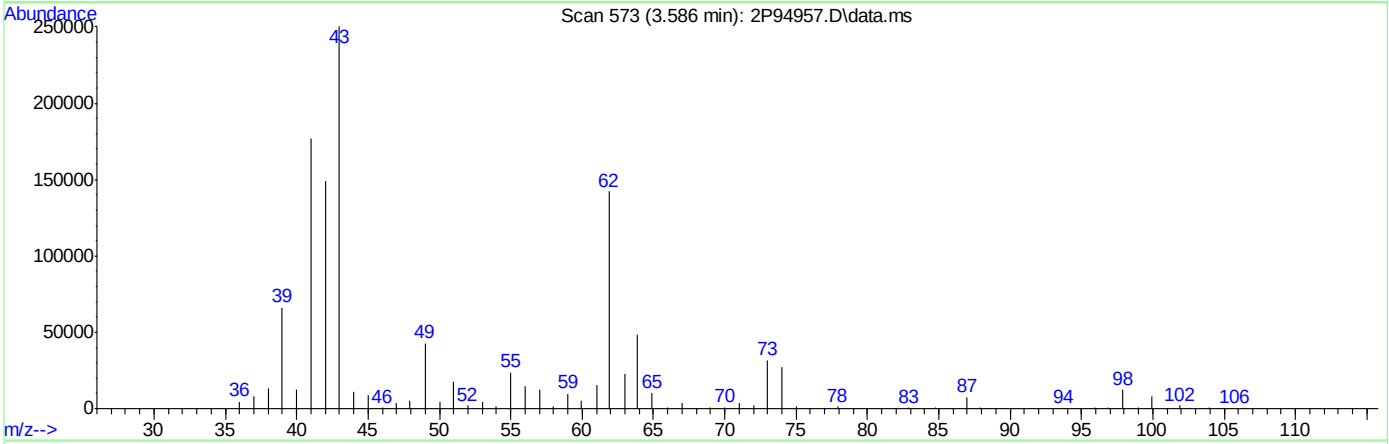
Ion	Exp%	Act%
116.90	100	100
118.90	95.80	94.65
120.90	29.50	30.81
81.90	30.20	30.97

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94957.D
Acq On : 4 Nov 2022 12:17 pm
Operator : courtnef
Sample : IC3622-4
Misc : MS52512,V2P3622,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Nov 04 12:48:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94957.D\data.ms

(50) Isobutyl alcohol

3.586min (-0.005) 573.58ug/L

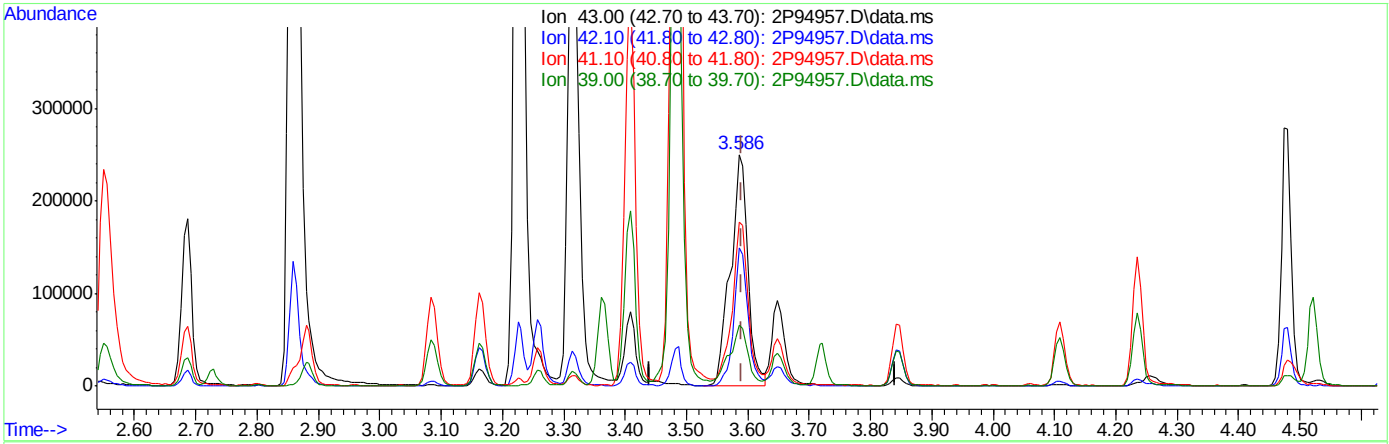
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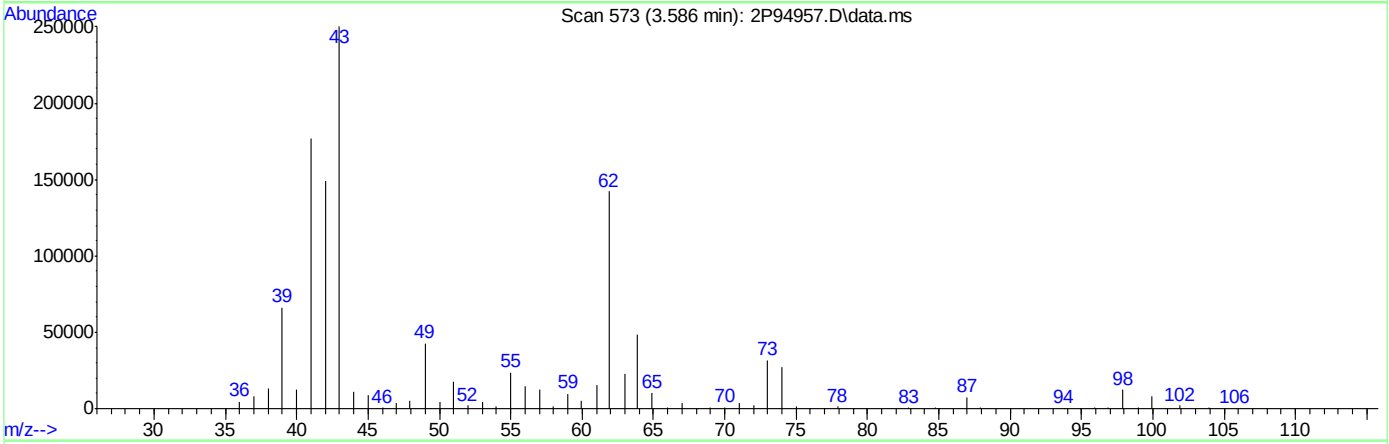
Ion	Exp%	Act%
43.00	100	100
42.10	61.30	59.65
41.10	73.00	67.75
39.00	27.40	24.45

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94957.D
Acq On : 4 Nov 2022 12:17 pm
Operator : courtnef
Sample : IC3622-4
Misc : MS52512,V2P3622,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Nov 04 12:48:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94957.D\data.ms

(50) Isobutyl alcohol

3.586min (-0.005) 621.49ug/L m

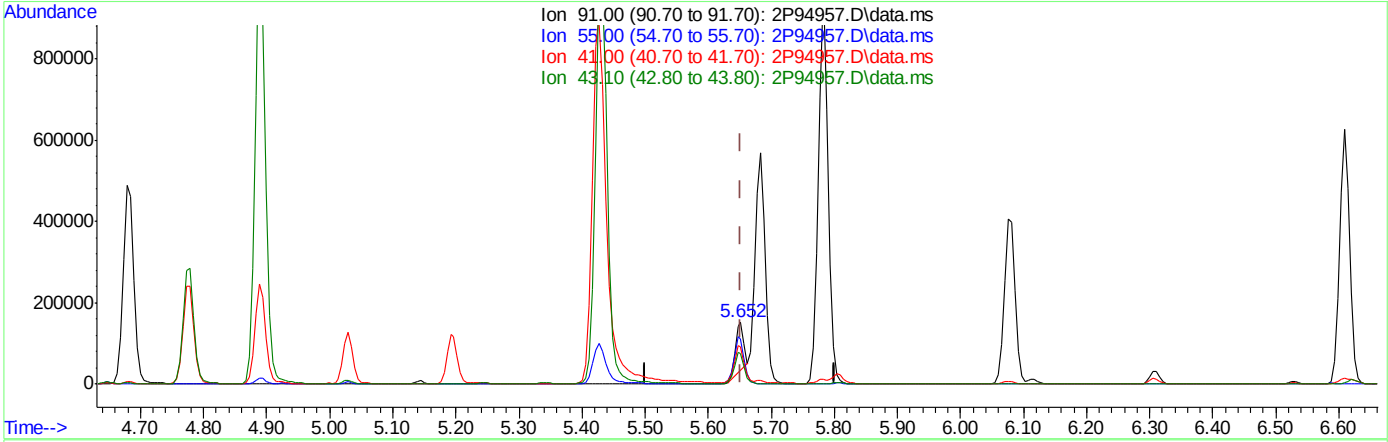
response 492942

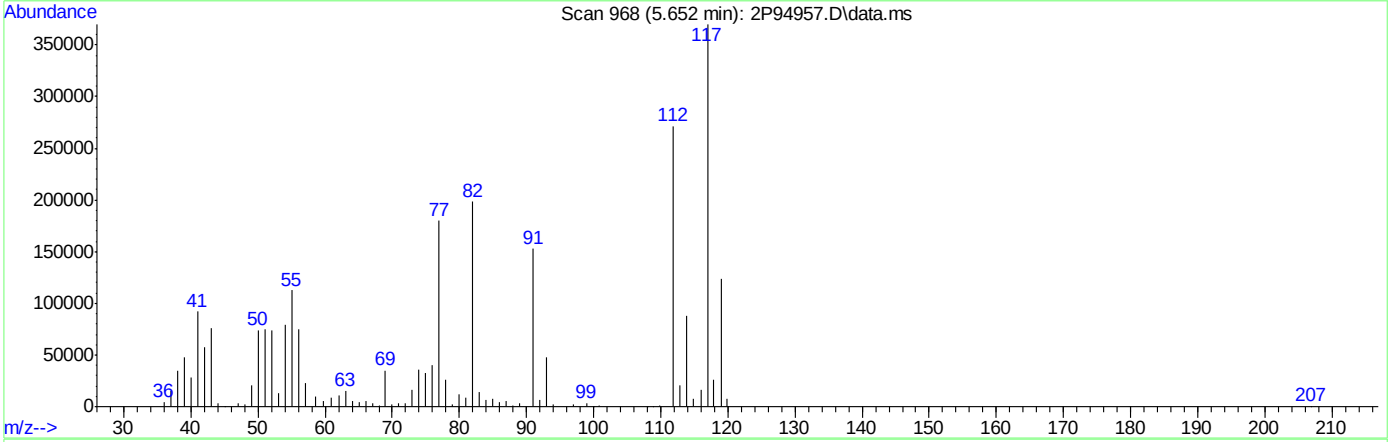
Ion	Exp%	Act%
43.00	100	100
42.10	61.30	59.58
41.10	73.00	70.60
39.00	27.40	26.54

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94957.D
Acq On : 4 Nov 2022 12:17 pm
Operator : courtnef
Sample : IC3622-4
Misc : MS52512,V2P3622,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Nov 04 12:48:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94957.D\data.ms

(76) 1-Chlorohexane

5.652min (+0.000) 17.05ug/L

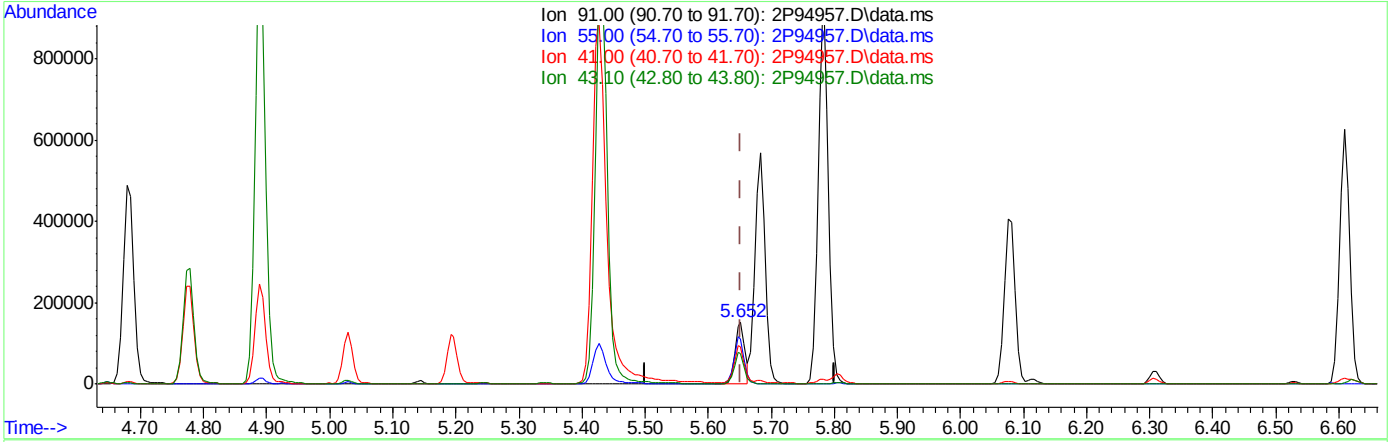
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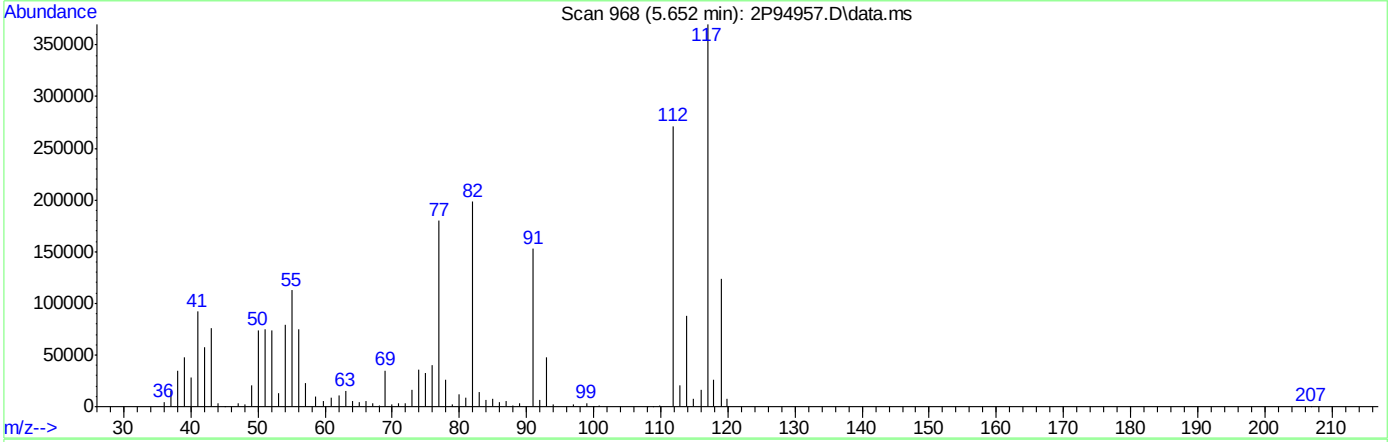
Ion	Exp%	Act%
91.00	100	100
55.00	65.20	69.91
41.00	51.70	56.15
43.10	43.60	47.79

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94957.D
Acq On : 4 Nov 2022 12:17 pm
Operator : courtnef
Sample : IC3622-4
Misc : MS52512,V2P3622,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Nov 04 12:48:26 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94957.D\data.ms

(76) 1-Chlorohexane

5.652min (+0.000) 24.60ug/L m

response 172680

Ion	Exp%	Act%
91.00	100	100
55.00	65.20	73.72
41.00	51.70	60.30
43.10	43.60	49.86

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 11/07/22 18:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94959.D
Acq On : 4 Nov 2022 12:49 pm
Operator : courtnef
Sample : ICC3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 04 13:07:02 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.721	96	1348521	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.646	117	946043	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	414772	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.266	113	289877	48.96	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.92%				
49) 1,2-Dichloroethane-d4	3.554	65	412403	52.57	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.14%				
63) Toluene-d8	4.652	98	1319594	50.07	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.14%				
86) 4-Bromofluorobenzene	6.498	174	317371	45.91	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 91.82%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.127	85	219204	40.25	ug/L		100
3) Chloromethane	1.252	50	236299	43.95	ug/L		97
4) 1,3-butadiene	1.320	39	243542	51.14	ug/L		96
5) Vinyl Chloride	1.310	62	257021	45.20	ug/L		99
6) Bromomethane	1.514	94	123845	40.08	ug/L		96
7) Chloroethane	1.587	64	72606	46.77	ug/L		97
8) Trichlorofluoromethane	1.676	101	275853	43.95	ug/L		99
9) Ethyl Ether	1.885	59	217149	48.84	ug/L		95
10) Ethanol	1.984	45	128542	985.85	ug/L		95
11) 1,2-Dichlorotrifluoroe...	1.979	67	255953	45.54	ug/L		97
12) 1,1-Dichloroethene	1.984	61	316400	44.37	ug/L		99
13) Freon 113	2.016	101	187713	42.55	ug/L		91
14) Carbon Disulfide	2.005	76	576671	47.70	ug/L		98
15) Iodomethane	2.063	142	152626	35.88	ug/L		97
16) Acrolein	2.157	56	333877	208.26	ug/L		97
17) Allyl chloride	2.251	41	283061	49.55	ug/L		93
18) Methylene Chloride	2.304	49	365182	55.55	ug/L		93
19) Acetone	2.319	43	696987	214.14	ug/L		98
20) Methyl acetate	2.398	43	1579685	243.22	ug/L		97
21) trans-1,2-Dichloroethene	2.403	61	316800	45.15	ug/L		91
22) Hexane	2.471	56	171424	46.18	ug/L	#	90
23) Methyl Tert Butyl Ether	2.476	73	733965	50.98	ug/L		94
24) Tert Butyl Alcohol	2.513	59	716399	552.91	ug/L		85
25) Acetonitrile	2.560	41	473328	409.41	ug/L		95
26) Di-isopropyl ether	2.691	45	753137	48.93	ug/L		97
27) Chloroprene	2.732	53	1092751	42.87	ug/L		96
28) 1,1-Dichloroethane	2.732	63	405921	45.55	ug/L		99
29) Acrylonitrile	2.732	52	703807	215.44	ug/L		94
30) ETBE	2.884	59	741832	51.90	ug/L		98
31) Vinyl acetate	2.863	43	2844911	245.70	ug/L		99
32) cis-1,2-Dichloroethene	3.025	96	223943	41.96	ug/L		97
33) 2,2-Dichloropropane	3.088	77	340519	47.34	ug/L		99
34) Bromochloromethane	3.130	128	92014	39.67	ug/L		94
35) Cyclohexane	3.167	56	376061	46.95	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94959.D
Acq On : 4 Nov 2022 12:49 pm
Operator : courtnef
Sample : ICC3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 04 13:07:02 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.172	83	399669	43.57	ug/L		99
37) Ethyl acetate	3.229	43	1976455	230.52	ug/L		98
38) Tetrahydrofuran	3.261	42	151402	44.69	ug/L		98
40) Carbon Tetrachloride	3.271	117	260296m	42.39	ug/L		
41) 1,1,1-Trichloroethane	3.297	97	340426	42.70	ug/L		96
42) 2-Butanone	3.318	43	1138422	208.01	ug/L		97
43) 1,1-Dichloropropene	3.365	75	309480	43.21	ug/L		94
44) tert-Butyl formate	3.412	59	904769	402.38	ug/L	#	65
45) Propionitrile	3.465	54	650800	466.99	ug/L		99
46) Methacrylonitrile	3.486	41	2370863	506.75	ug/L		99
47) Benzene	3.496	78	958231	44.38	ug/L		85
48) TAME	3.569	73	702078	54.27	ug/L		91
50) Isobutyl alcohol	3.595	43	835288m	1025.75	ug/L		
51) 1,2-Dichloroethane	3.590	62	323904	42.69	ug/L		98
52) Tert Amyl Alcohol	3.653	59	593835	594.23	ug/L	#	79
53) Trichloroethene	3.826	95	227389	40.65	ug/L		97
54) Methylcyclohexane	3.846	83	337415	44.67	ug/L		94
55) Dibromomethane	4.050	93	131287	41.31	ug/L		89
56) 1,2-Dichloropropane	4.108	63	229578	44.42	ug/L		97
57) Bromodichloromethane	4.150	83	258805	43.18	ug/L		98
58) Methyl methacrylate	4.239	41	284195	48.28	ug/L		96
59) 1,4-Dioxane	4.260	88	113764	817.35	ug/L		95
60) 2-Chloroethyl vinyl ether	4.479	63	819431	215.05	ug/L		96
61) cis-1,3-Dichloropropene	4.521	75	354277	45.90	ug/L		96
64) Toluene	4.683	91	990478	41.92	ug/L		100
65) 2-Nitropropane	4.777	41	555167	249.97	ug/L		99
66) 4-Methyl-2-pentanone	4.892	43	2069467	223.70	ug/L		98
67) trans-1,3-Dichloropropene	4.919	75	321523	46.08	ug/L		92
68) Tetrachloroethene	4.940	166	205325	38.12	ug/L		97
69) Ethyl methacrylate	5.028	69	340053	43.69	ug/L		94
70) 1,1,2-Trichloroethane	5.018	83	175515	43.07	ug/L		94
71) Dibromochloromethane	5.144	129	180443	40.68	ug/L		99
72) 1,3-Dichloropropane	5.196	76	383018	42.52	ug/L		93
73) 1,2-Dibromoethane	5.295	107	206064	40.35	ug/L		100
74) 3,3-dimethyl-1-butanol	5.426	57	3320320	2179.70	ug/L		98
75) 2-hexanone	5.431	43	2306752	231.50	ug/L	#	67
76) 1-Chlorohexane	5.651	91	323484m	44.15	ug/L		
77) Ethylbenzene	5.682	91	1077158	41.89	ug/L		99
78) Chlorobenzene	5.656	112	571582	40.99	ug/L		96
79) 1,1,1,2-Tetrachloroethane	5.698	131	184062	41.60	ug/L		94
80) m,p-Xylene	5.782	91	1737561	85.99	ug/L		99
81) o-Xylene	6.080	91	850969	41.46	ug/L		99
82) Styrene	6.111	104	643606	41.35	ug/L		96
83) Bromoform	6.116	173	98467	39.18	ug/L		98
84) Isopropylbenzene	6.310	105	984062	42.00	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.529	53	104253	44.28	ug/L		91
88) n-Propylbenzene	6.608	91	1202221	44.02	ug/L		99
89) Bromobenzene	6.571	156	212888	38.64	ug/L		90
90) 1,1,2,2-Tetrachloroethane	6.629	83	322672	43.90	ug/L		99
91) 1,3,5-Trimethylbenzene	6.760	105	814242	43.15	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94959.D
Acq On : 4 Nov 2022 12:49 pm
Operator : courtnef
Sample : ICC3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 04 13:07:02 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

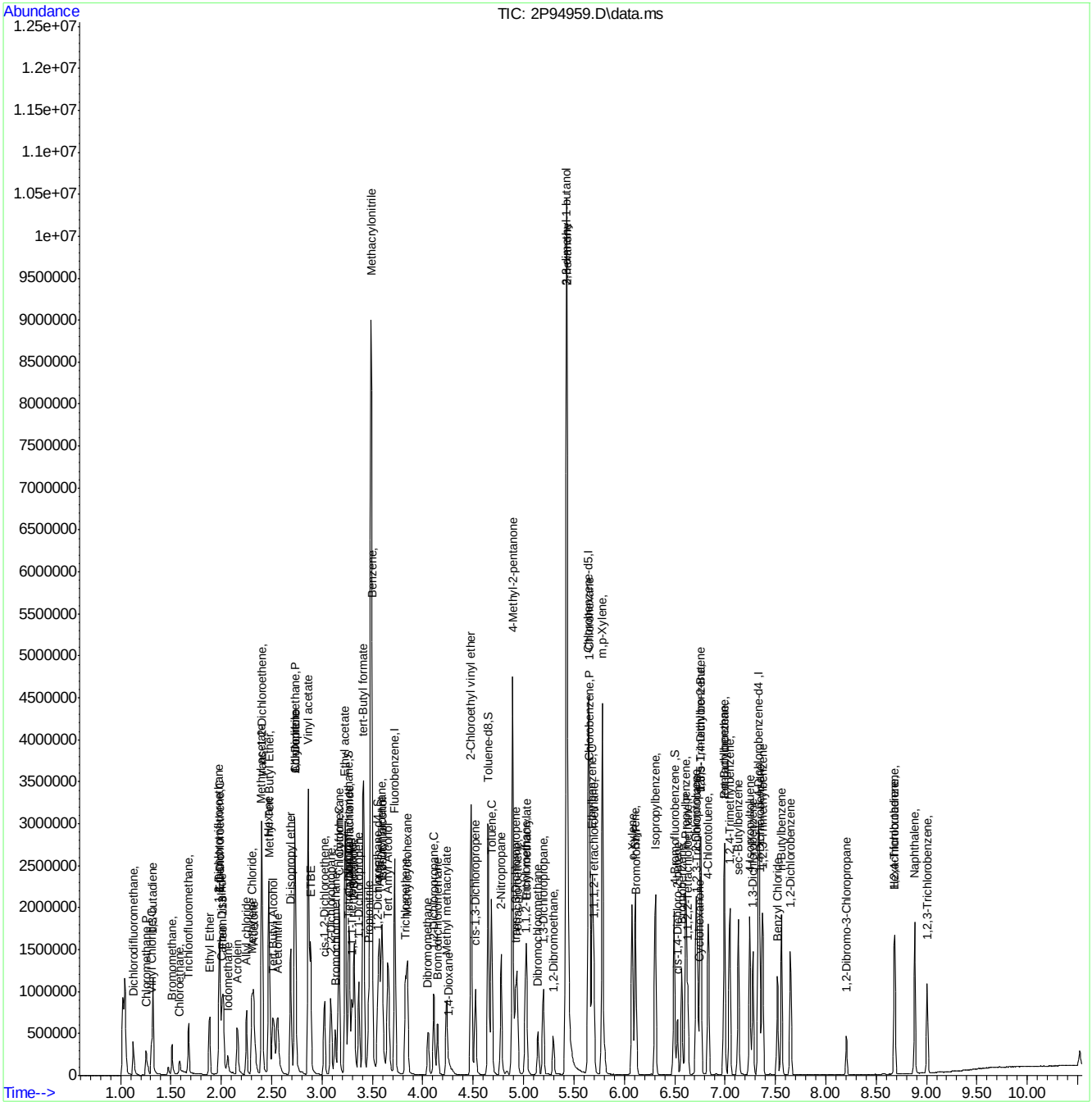
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 2-Chlorotoluene	6.713	91	714017	42.87	ug/L		98
93) trans-1,4-Dichloro-2-B...	6.760	53	122683	44.46	ug/L		95
94) 1,2,3-Trichloropropane	6.723	110	109274	39.92	ug/L		93
95) Cyclohexanone	6.744	55	113211	213.68	ug/L		95
96) 4-Chlorotoluene	6.833	91	729573	42.35	ug/L		99
97) tert-Butylbenzene	6.995	91	461319	43.11	ug/L		97
99) 1,2,4-Trimethylbenzene	7.047	105	775749	41.98	ug/L		99
100) Pentachloroethane	6.995	167	98586	43.85	ug/L		97
101) sec-Butylbenzene	7.131	105	896125	43.58	ug/L		98
102) 4-Isopropyltoluene	7.246	119	768411	43.46	ug/L		99
103) 1,3-Dichlorobenzene	7.277	146	392049	40.15	ug/L		97
104) 1,2,3-Trimethylbenzene	7.372	105	758997	41.41	ug/L		98
105) 1,4-Dichlorobenzene	7.345	146	400668	39.83	ug/L		97
106) n-Butylbenzene	7.560	92	384852	44.55	ug/L		98
107) Benzyl Chloride	7.523	126	106698	42.96	ug/L	#	92
108) 1,2-Dichlorobenzene	7.649	146	366659	39.79	ug/L		97
109) 1,2-Dibromo-3-Chloropr...	8.203	75	74234	41.19	ug/L		90
110) Hexachlorobutadiene	8.684	225	66827	34.75	ug/L		89
111) 1,2,4-Trichlorobenzene	8.684	180	192958	36.89	ug/L		98
112) Naphthalene	8.883	128	808807	40.23	ug/L		99
113) 1,2,3-Trichlorobenzene	9.009	180	180779	36.91	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94959.D
Acq On : 4 Nov 2022 12:49 pm
Operator : courtnef
Sample : ICC3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 04 13:07:02 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration



Manual Integration Approval Summary

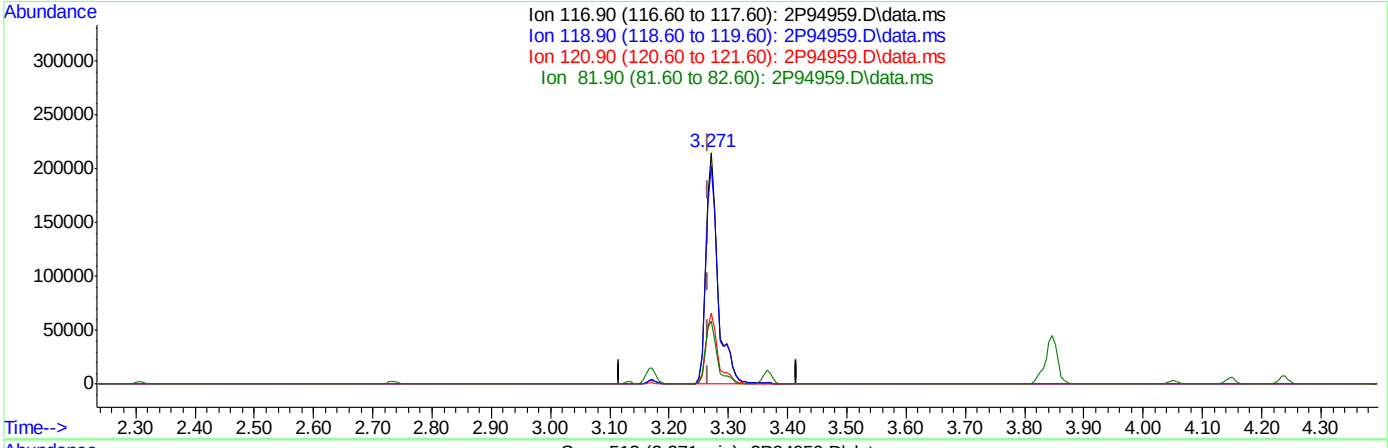
Sample Number: V2P3622-ICC3622 **Method:** SW846 8260D
Lab FileID: 2P94959.D **Analyst approved:** 11/04/22 13:10 Courtney Failla
Injection Time: 11/04/22 12:49 **Supervisor approved:** 11/07/22 18:21 Shanica O'Connor

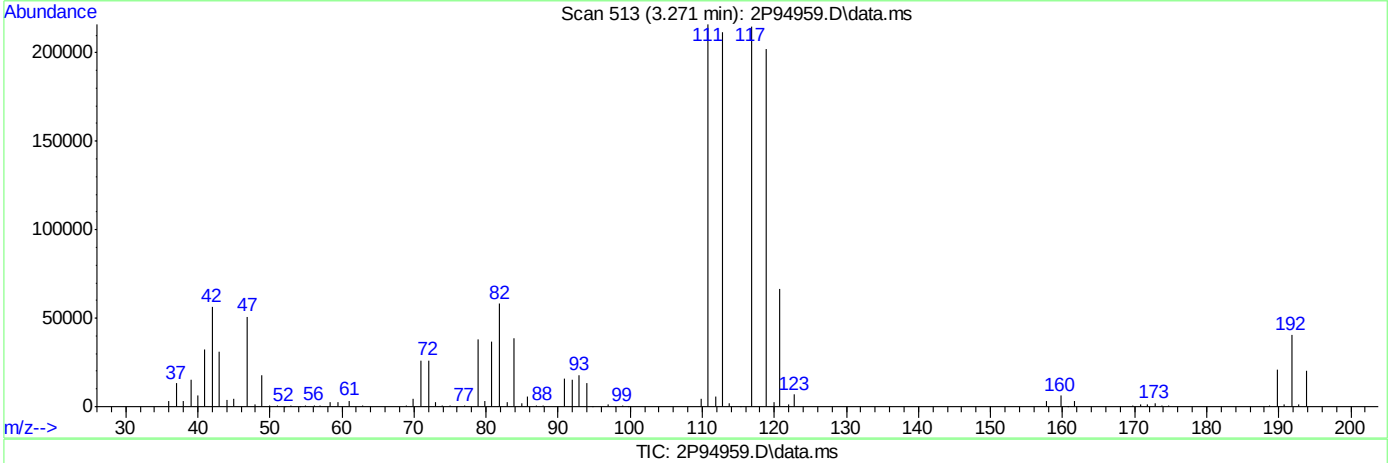
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.60	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94959.D
Acq On : 4 Nov 2022 12:49 pm
Operator : courtnef
Sample : ICC3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 04 13:04:27 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94959.D\data.ms

(40) Carbon Tetrachloride ( )

3.271min (+0.004) 48.12ug/L

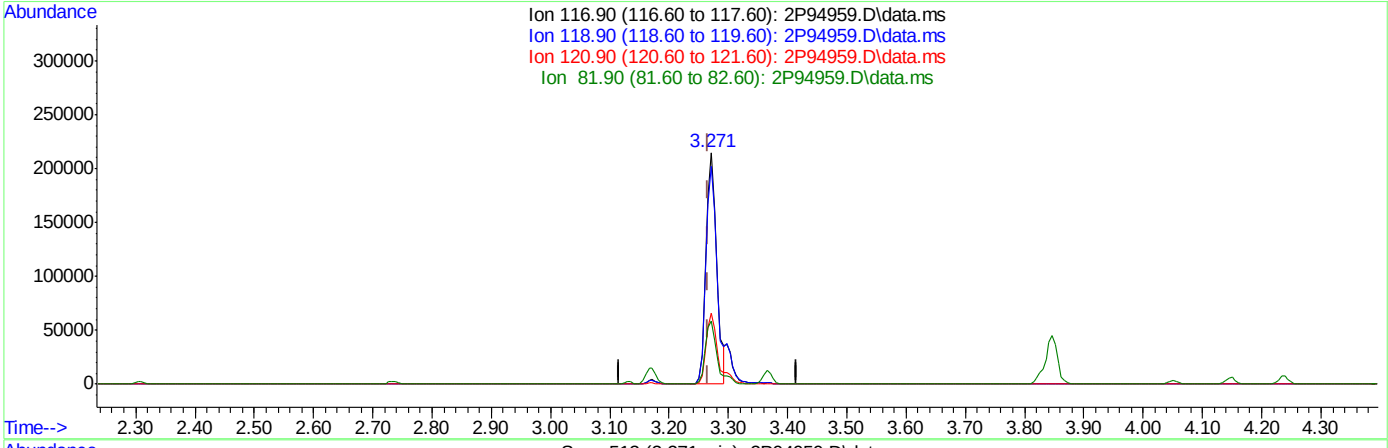
response 295505

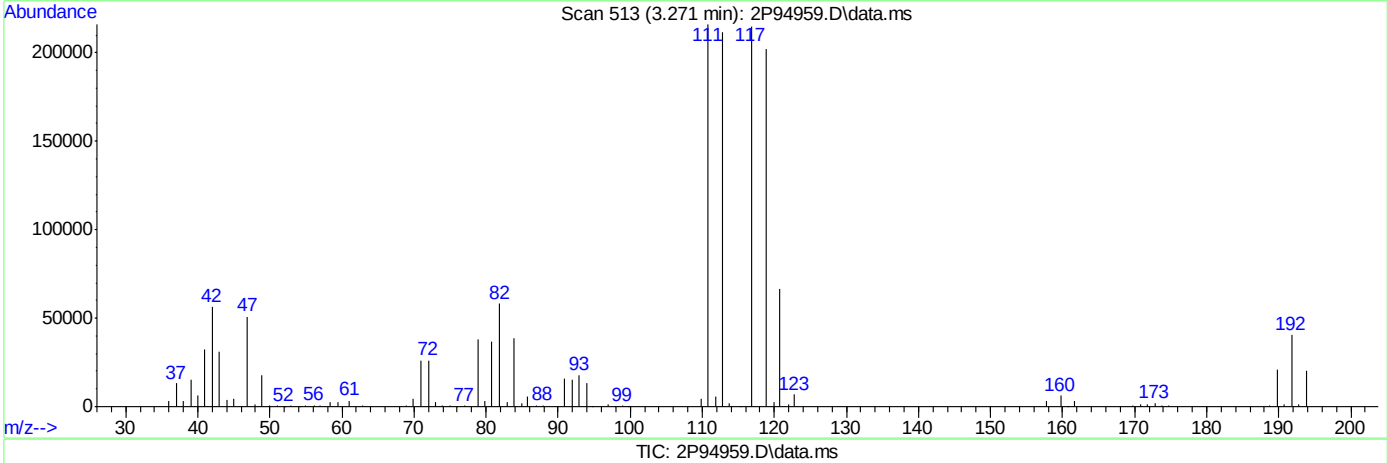
Ion	Exp%	Act%
116.90	100	100
118.90	95.80	94.11
120.90	29.50	30.83
81.90	30.20	26.94

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94959.D
Acq On : 4 Nov 2022 12:49 pm
Operator : courtnef
Sample : ICC3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 04 13:04:27 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94959.D\data.ms

(40) Carbon Tetrachloride ( )

3.271min (+0.004) 42.39ug/L m

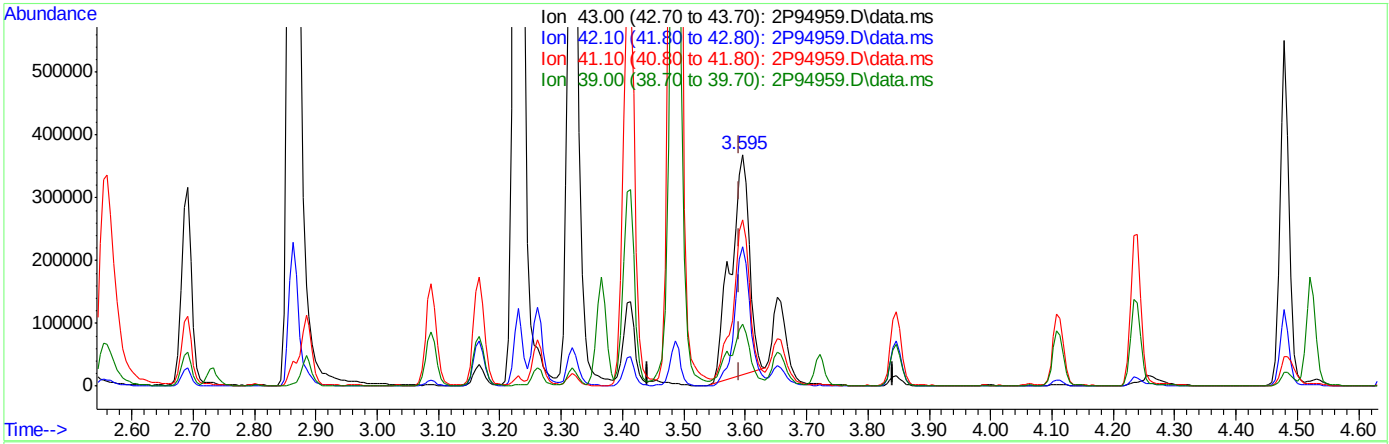
response 260296

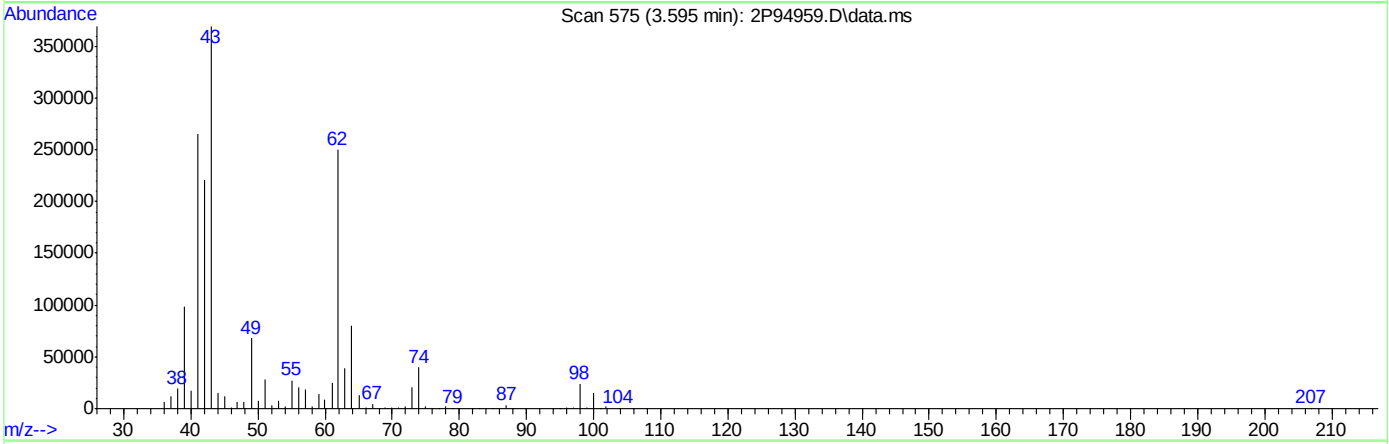
Ion	Exp%	Act%
116.90	100	100
118.90	95.80	94.11
120.90	29.50	30.83
81.90	30.20	27.04

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94959.D
Acq On : 4 Nov 2022 12:49 pm
Operator : courtnef
Sample : ICC3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 04 13:04:27 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94959.D\data.ms

(50) Isobutyl alcohol

3.595min (+0.004) 928.84ug/L

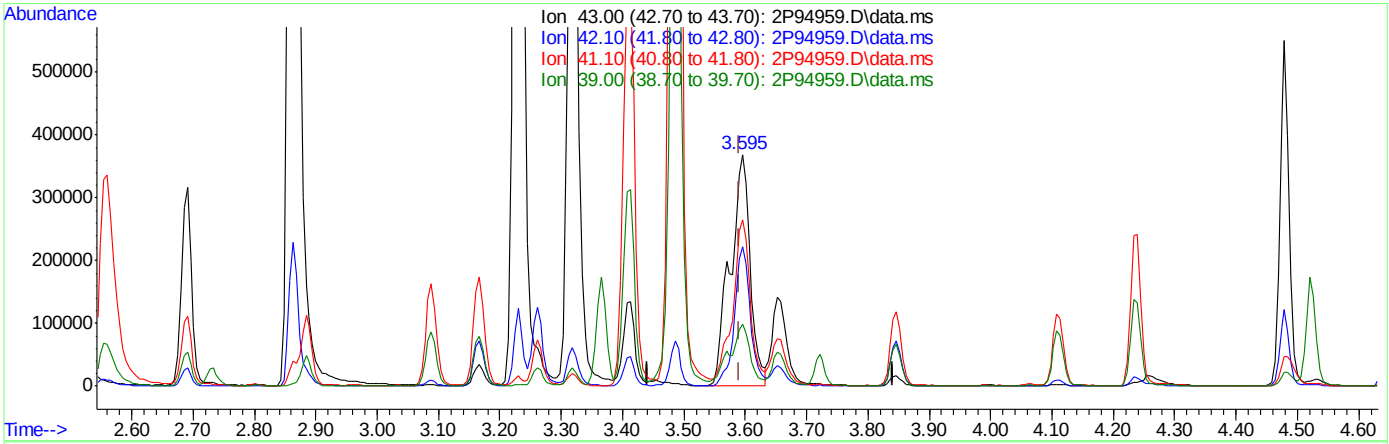
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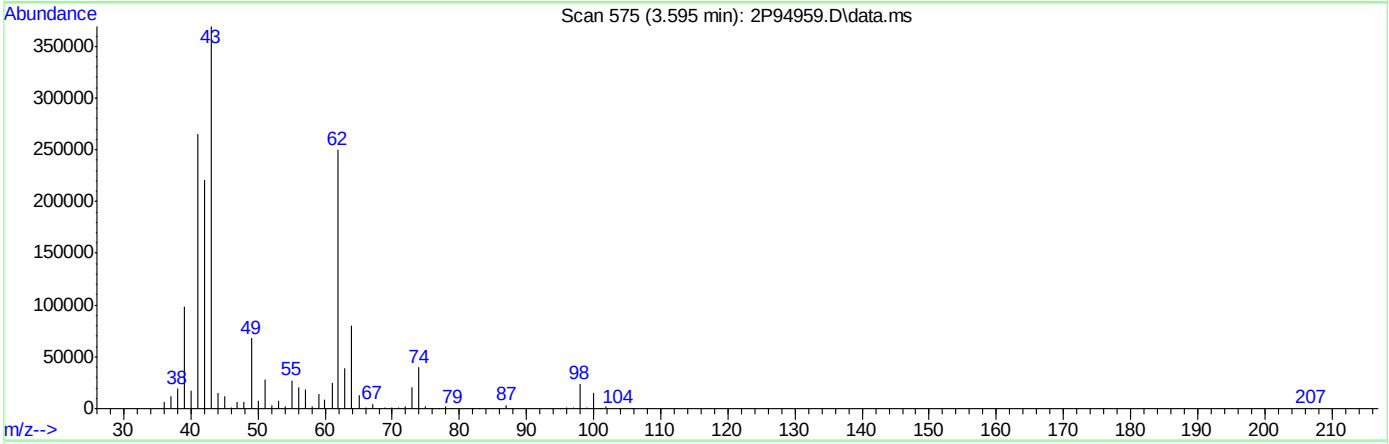
Ion	Exp%	Act%
43.00	100	100
42.10	61.30	59.94
41.10	73.00	68.91
39.00	27.40	24.37

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94959.D
Acq On : 4 Nov 2022 12:49 pm
Operator : courtnef
Sample : ICC3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 04 13:04:27 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94959.D\data.ms

(50) Isobutyl alcohol

3.595min (+0.004) 1025.75ug/L m

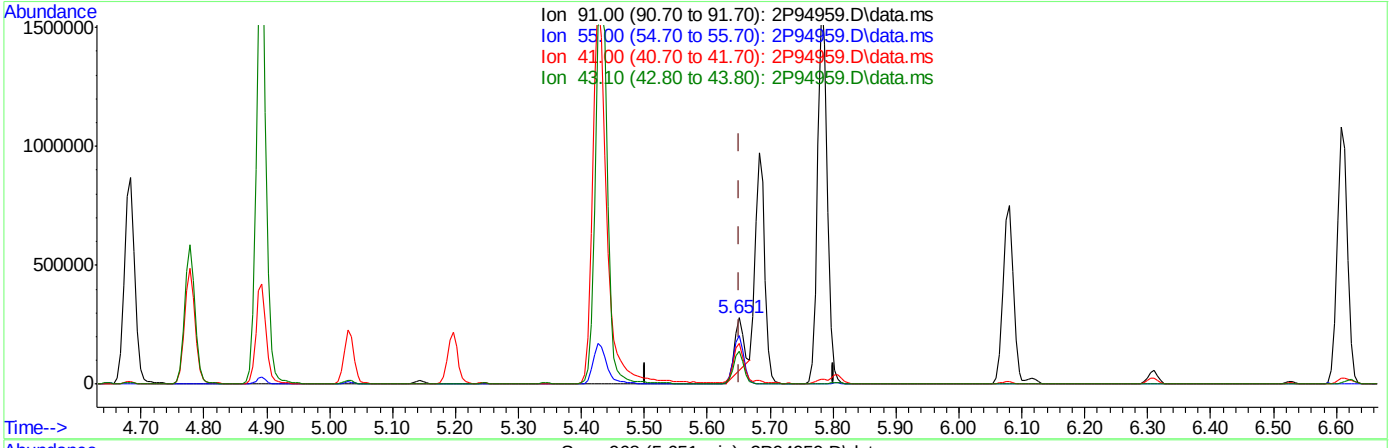
response 835288

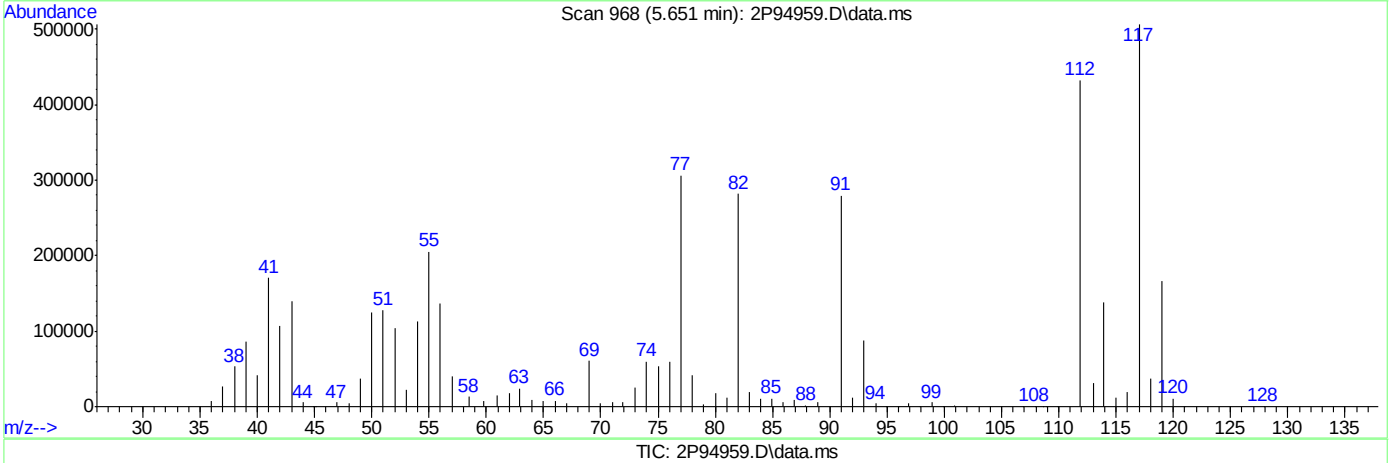
Ion	Exp%	Act%
43.00	100	100
42.10	61.30	59.96
41.10	73.00	71.90
39.00	27.40	26.62

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94959.D
Acq On : 4 Nov 2022 12:49 pm
Operator : courtnef
Sample : ICC3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 04 13:04:27 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94959.D\data.ms

(76) 1-Chlorohexane

5.651min (-0.001) 28.81ug/L

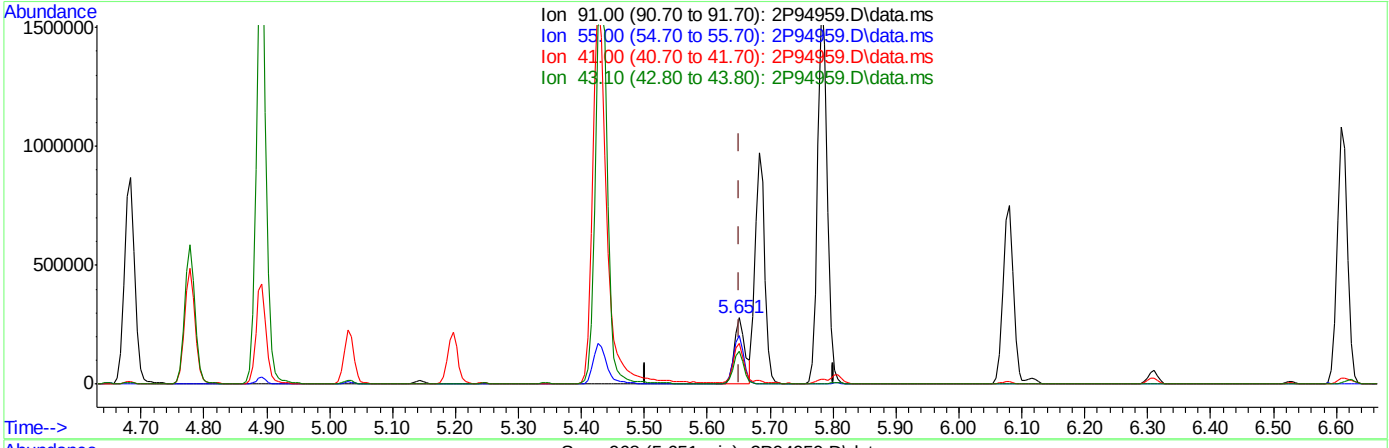
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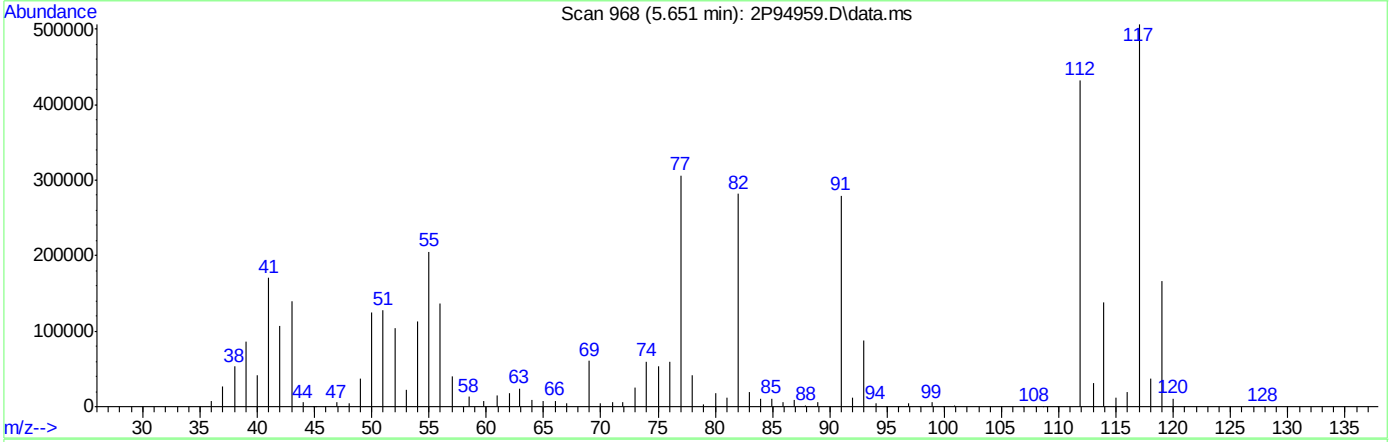
Ion	Exp%	Act%
91.00	100	100
55.00	65.20	71.94
41.00	51.70	58.18
43.10	43.60	48.37

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94959.D
Acq On : 4 Nov 2022 12:49 pm
Operator : courtnef
Sample : ICC3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 04 13:04:27 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94959.D\data.ms

(76) 1-Chlorohexane

5.651min (-0.001) 44.15ug/L m

response 323484

Ion	Exp%	Act%
91.00	100	100
55.00	65.20	73.55
41.00	51.70	60.90
43.10	43.60	49.76

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 11/07/22 18:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94961.D
Acq On : 4 Nov 2022 1:21 pm
Operator : courtnef
Sample : IC3622-6
Misc : MS52512,V2P3622,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Nov 04 13:36:10 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.721	96	1419567	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.646	117	996089	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.335	152	425028	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.266	113	305613	49.03	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.06%			
49) 1,2-Dichloroethane-d4	3.554	65	435943	52.79	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.58%			
63) Toluene-d8	4.647	98	1390365	50.11	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.22%			
86) 4-Bromofluorobenzene	6.498	174	336571	47.51	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.122	85	423115	73.80	ug/L	98
3) Chloromethane	1.247	50	434517	76.77	ug/L	98
4) 1,3-butadiene	1.320	39	434566	86.69	ug/L	97
5) Vinyl Chloride	1.305	62	484789	80.99	ug/L	99
6) Bromomethane	1.509	94	217662	66.91	ug/L	100
7) Chloroethane	1.582	64	133368	83.98	ug/L	99
8) Trichlorofluoromethane	1.671	101	252385	38.20	ug/L	100
9) Ethyl Ether	1.880	59	423693	90.53	ug/L	92
10) Ethanol	1.995	45	217888	1993.04	ug/L	87
11) 1,2-Dichlorotrifluoroe...	1.974	67	475463	80.36	ug/L	97
12) 1,1-Dichloroethene	1.979	61	602010	80.19	ug/L	99
13) Freon 113	2.011	101	361688	77.88	ug/L	91
14) Carbon Disulfide	1.995	76	1089276	85.59	ug/L	97
15) Iodomethane	2.058	142	279218	61.74	ug/L	98
16) Acrolein	2.157	56	617943	366.15	ug/L	99
17) Allyl chloride	2.246	41	526732	87.58	ug/L	96
18) Methylene Chloride	2.304	49	594387	94.77	ug/L	96
19) Acetone	2.319	43	1282086	374.20	ug/L	98
20) Methyl acetate	2.398	43	2997587	438.44	ug/L	98
21) trans-1,2-Dichloroethene	2.403	61	594673	80.51	ug/L	95
22) Hexane	2.466	56	331288	80.43	ug/L	95
23) Methyl Tert Butyl Ether	2.471	73	1399954	92.38	ug/L	97
24) Tert Butyl Alcohol	2.528	59	1347292	987.79	ug/L	82
25) Acetonitrile	2.560	41	1295388	858.99	ug/L	97
26) Di-isopropyl ether	2.685	45	1393970	86.03	ug/L	96
27) Chloroprene	2.727	53	2069244	77.12	ug/L	98
28) 1,1-Dichloroethane	2.727	63	754724	80.44	ug/L	99
29) Acrylonitrile	2.732	52	1312489	381.66	ug/L	92
30) ETBE	2.884	59	1400553	93.09	ug/L	99
31) Vinyl acetate	2.863	43	5284305	433.54	ug/L	99
32) cis-1,2-Dichloroethene	3.020	96	411554	73.25	ug/L	95
33) 2,2-Dichloropropane	3.088	77	641835	84.76	ug/L	99
34) Bromochloromethane	3.130	128	161647	66.20	ug/L	99
35) Cyclohexane	3.161	56	715626	84.87	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94961.D
Acq On : 4 Nov 2022 1:21 pm
Operator : courtnef
Sample : IC3622-6
Misc : MS52512,V2P3622,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Nov 04 13:36:10 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.167	83	751142	77.78	ug/L		99
37) Ethyl acetate	3.229	43	3682901	408.04	ug/L		99
38) Tetrahydrofuran	3.261	42	287295	80.56	ug/L		94
40) Carbon Tetrachloride	3.266	117	489688m	75.75	ug/L		
41) 1,1,1-Trichloroethane	3.297	97	644028	76.73	ug/L		97
42) 2-Butanone	3.318	43	2150932	373.34	ug/L		97
43) 1,1-Dichloropropene	3.365	75	577952	76.66	ug/L		97
44) tert-Butyl formate	3.412	59	1826464	662.46	ug/L	#	63
45) Propionitrile	3.465	54	1214926	846.08	ug/L		98
46) Methacrylonitrile	3.486	41	4426815	898.84	ug/L		99
47) Benzene	3.496	78	1831308	80.57	ug/L		81
48) TAME	3.569	73	1327888	97.51	ug/L		91
50) Isobutyl alcohol	3.601	43	1542689m	1799.64	ug/L		
51) 1,2-Dichloroethane	3.590	62	606220	75.90	ug/L		99
52) Tert Amyl Alcohol	3.663	59	1111651	1056.71	ug/L	#	79
53) Trichloroethene	3.826	95	428463	72.77	ug/L		97
54) Methylcyclohexane	3.846	83	645876	81.22	ug/L		95
55) Dibromomethane	4.050	93	250154	74.78	ug/L		90
56) 1,2-Dichloropropane	4.108	63	422889	77.72	ug/L		98
57) Bromodichloromethane	4.145	83	510905	80.97	ug/L		97
58) Methyl methacrylate	4.239	41	547935	88.43	ug/L		95
59) 1,4-Dioxane	4.265	88	204685	1396.98	ug/L		92
60) 2-Chloroethyl vinyl ether	4.479	63	1575331	392.74	ug/L		97
61) cis-1,3-Dichloropropene	4.521	75	670711	82.55	ug/L		95
64) Toluene	4.683	91	1842510	74.07	ug/L		100
65) 2-Nitropropane	4.777	41	1093920	424.38	ug/L		98
66) 4-Methyl-2-pentanone	4.892	43	3868787	397.19	ug/L		98
67) trans-1,3-Dichloropropene	4.919	75	602197	81.96	ug/L		86
68) Tetrachloroethene	4.940	166	377641	66.59	ug/L		99
69) Ethyl methacrylate	5.028	69	657084	80.19	ug/L		93
70) 1,1,2-Trichloroethane	5.023	83	324725	75.69	ug/L		94
71) Dibromochloromethane	5.144	129	353861	71.46	ug/L		99
72) 1,3-Dichloropropane	5.196	76	705634	74.39	ug/L		94
73) 1,2-Dibromoethane	5.295	107	385545	71.70	ug/L		100
74) 3,3-dimethyl-1-butanol	5.431	57	6419807	4002.68	ug/L		99
75) 2-hexanone	5.431	43	4223333	402.56	ug/L	#	48
76) 1-Chlorohexane	5.651	91	609717m	79.04	ug/L		
77) Ethylbenzene	5.682	91	2012136	74.32	ug/L		98
78) Chlorobenzene	5.656	112	1062540	72.37	ug/L		94
79) 1,1,1,2-Tetrachloroethane	5.698	131	354442	76.08	ug/L		97
80) m,p-Xylene	5.782	91	3280013	154.17	ug/L		97
81) o-Xylene	6.080	91	1597442	73.92	ug/L		98
82) Styrene	6.111	104	1228533	74.96	ug/L		96
83) Bromoform	6.116	173	198989	68.74	ug/L		97
84) Isopropylbenzene	6.310	105	1842601	74.70	ug/L		98
87) cis-1,4-Dichloro-2-butene	6.529	53	202820	84.07	ug/L		93
88) n-Propylbenzene	6.608	91	2245823	80.25	ug/L		98
89) Bromobenzene	6.571	156	392480	69.52	ug/L		86
90) 1,1,2,2-Tetrachloroethane	6.629	83	588089	78.09	ug/L		100
91) 1,3,5-Trimethylbenzene	6.760	105	1514624	78.34	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94961.D
Acq On : 4 Nov 2022 1:21 pm
Operator : courtnef
Sample : IC3622-6
Misc : MS52512,V2P3622,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Nov 04 13:36:10 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

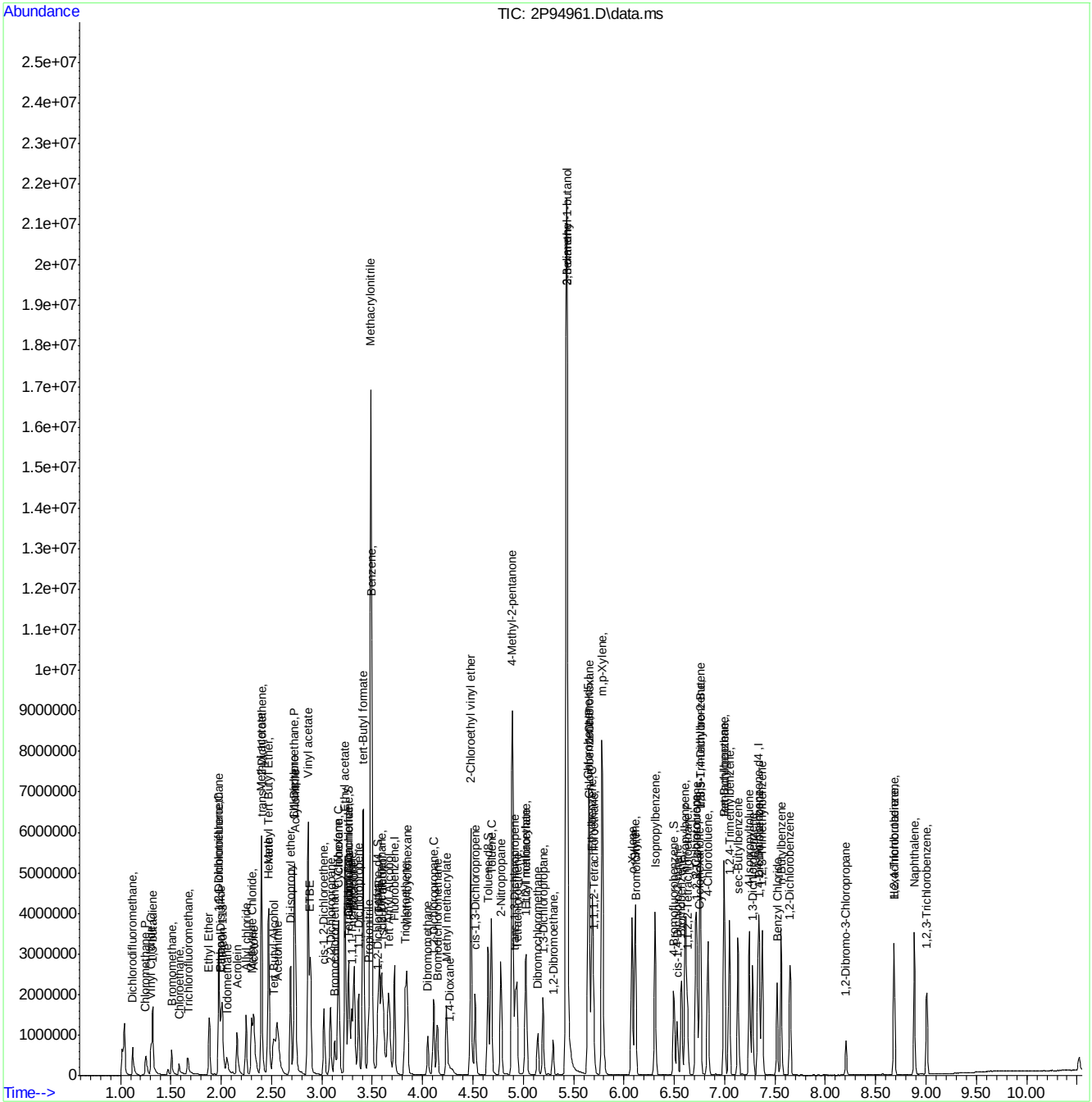
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92)	2-Chlorotoluene	6.713	91	1312846	76.92	ug/L	97
93)	trans-1,4-Dichloro-2-B...	6.760	53	238830	84.46	ug/L	95
94)	1,2,3-Trichloropropane	6.723	110	200814	71.59	ug/L	91
95)	Cyclohexanone	6.749	55	214922	395.86	ug/L	97
96)	4-Chlorotoluene	6.833	91	1368065	77.50	ug/L	96
97)	tert-Butylbenzene	6.995	91	868022	79.15	ug/L	94
99)	1,2,4-Trimethylbenzene	7.047	105	1472214	77.75	ug/L	97
100)	Pentachloroethane	6.995	167	186826	81.10	ug/L	93
101)	sec-Butylbenzene	7.131	105	1658505	78.70	ug/L	98
102)	4-Isopropyltoluene	7.246	119	1428065	78.82	ug/L	99
103)	1,3-Dichlorobenzene	7.277	146	715875	71.54	ug/L	96
104)	1,2,3-Trimethylbenzene	7.372	105	1412009	75.18	ug/L	98
105)	1,4-Dichlorobenzene	7.345	146	735773	71.38	ug/L	96
106)	n-Butylbenzene	7.560	92	722681	81.63	ug/L	98
107)	Benzyl Chloride	7.523	126	207942	72.67	ug/L	97
108)	1,2-Dichlorobenzene	7.649	146	674382	71.43	ug/L	97
109)	1,2-Dibromo-3-Chloropr...	8.203	75	144998	72.18	ug/L	87
110)	Hexachlorobutadiene	8.684	225	128633	65.27	ug/L	92
111)	1,2,4-Trichlorobenzene	8.684	180	372701	69.53	ug/L	98
112)	Naphthalene	8.883	128	1580840	76.73	ug/L	99
113)	1,2,3-Trichlorobenzene	9.009	180	345772	68.89	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94961.D
Acq On : 4 Nov 2022 1:21 pm
Operator : courtnef
Sample : IC3622-6
Misc : MS52512,V2P3622,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Nov 04 13:36:10 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration



Manual Integration Approval Summary

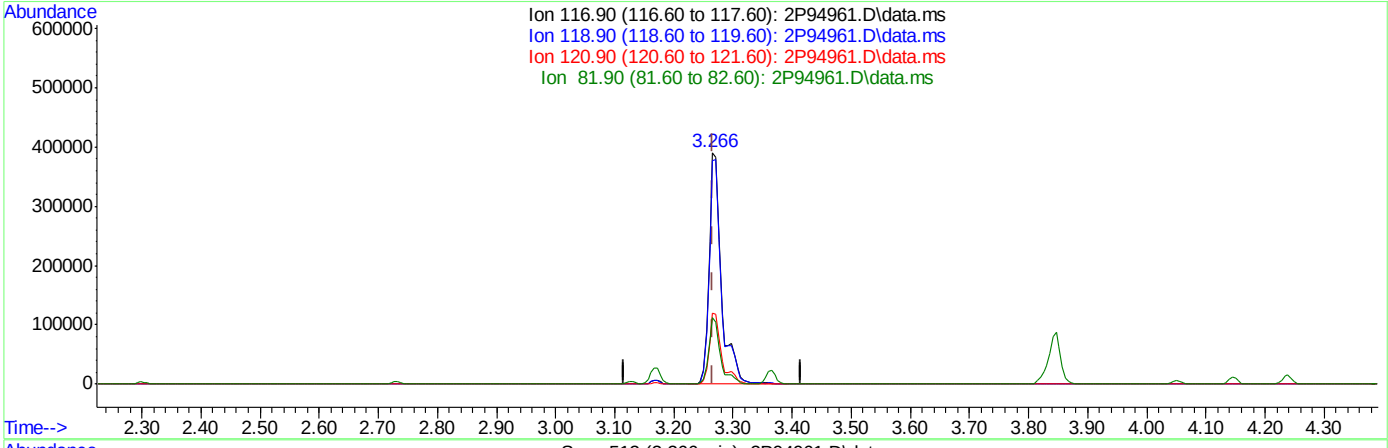
Sample Number: V2P3622-IC3622 **Method:** SW846 8260D
Lab FileID: 2P94961.D **Analyst approved:** 11/04/22 14:20 Courtney Failla
Injection Time: 11/04/22 13:21 **Supervisor approved:** 11/07/22 18:21 Shanica O'Connor

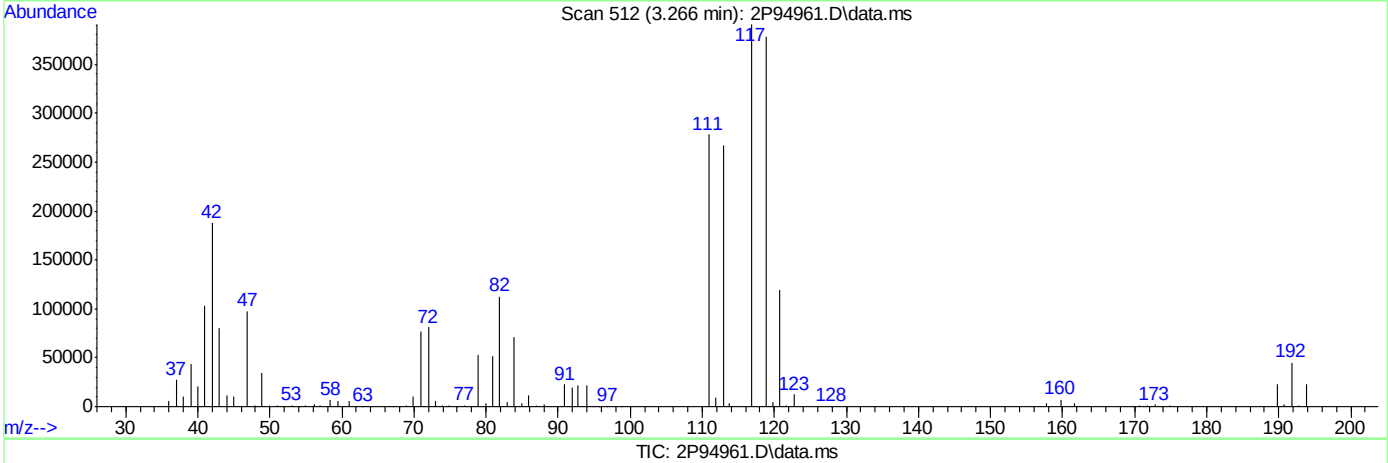
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.60	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94961.D
Acq On : 4 Nov 2022 1:21 pm
Operator : courtnef
Sample : IC3622-6
Misc : MS52512,V2P3622,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Nov 04 13:35:16 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94961.D\data.ms

(40) Carbon Tetrachloride ( )

3.266min (-0.001) 88.06ug/L

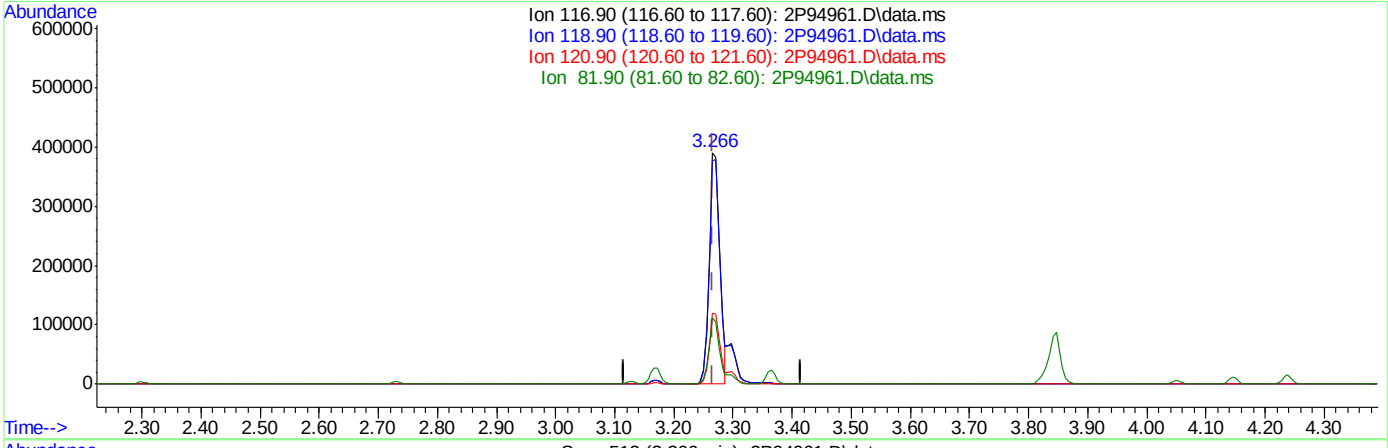
response 569263

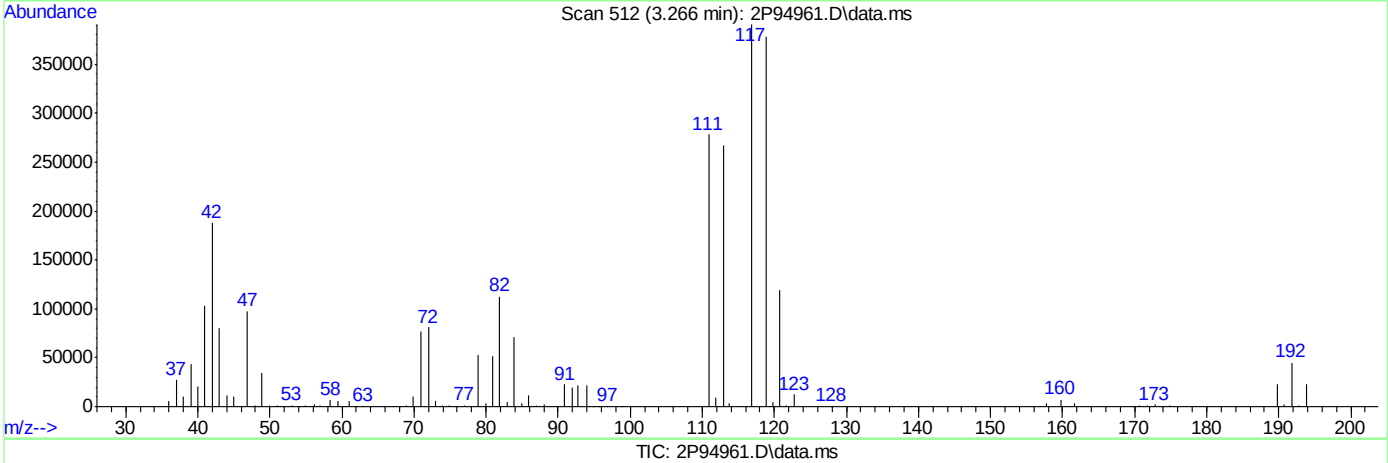
Ion	Exp%	Act%
116.90	100	100
118.90	95.80	96.66
120.90	29.50	30.50
81.90	30.20	28.75

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94961.D
Acq On : 4 Nov 2022 1:21 pm
Operator : courtnef
Sample : IC3622-6
Misc : MS52512,V2P3622,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Nov 04 13:35:16 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94961.D\data.ms

(40) Carbon Tetrachloride ( )

3.266min (-0.001) 75.75ug/L m

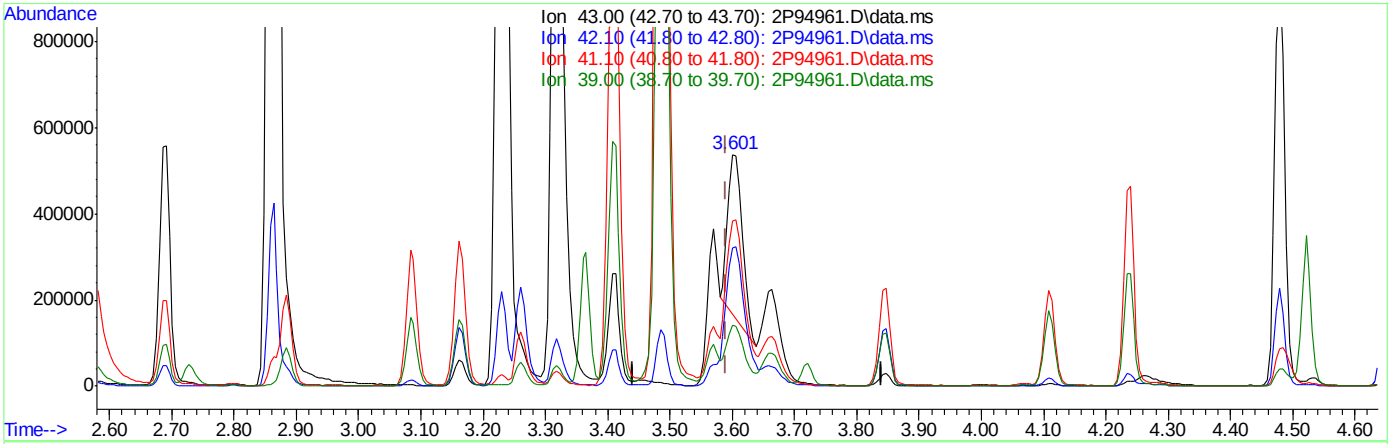
response 489688

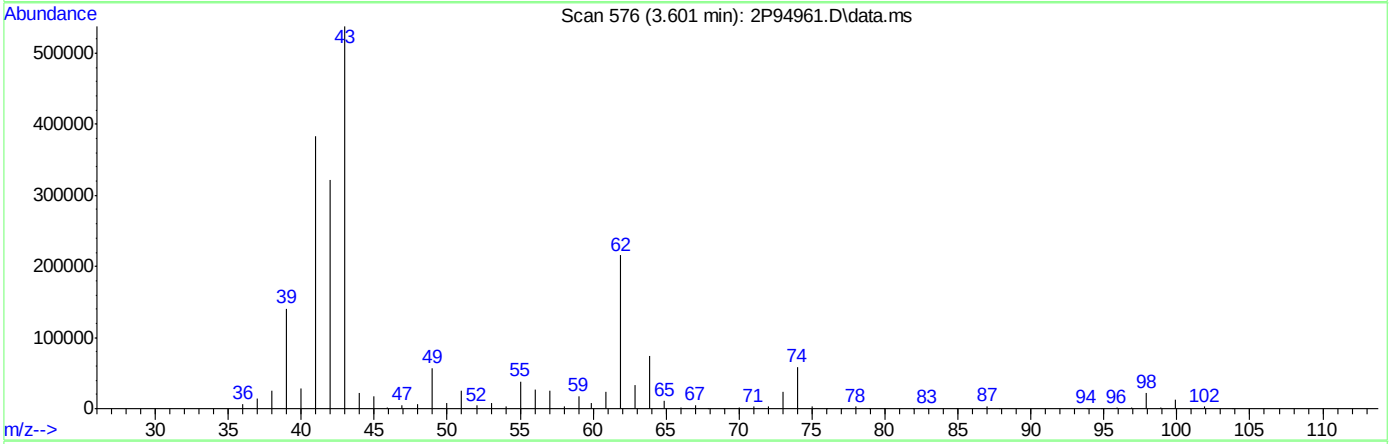
Ion	Exp%	Act%
116.90	100	100
118.90	95.80	96.66
120.90	29.50	30.50
81.90	30.20	28.82

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94961.D
Acq On : 4 Nov 2022 1:21 pm
Operator : courtnef
Sample : IC3622-6
Misc : MS52512,V2P3622,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Nov 04 13:35:16 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94961.D\data.ms

(50) Isobutyl alcohol

3.601min (+0.010) 686.78ug/L

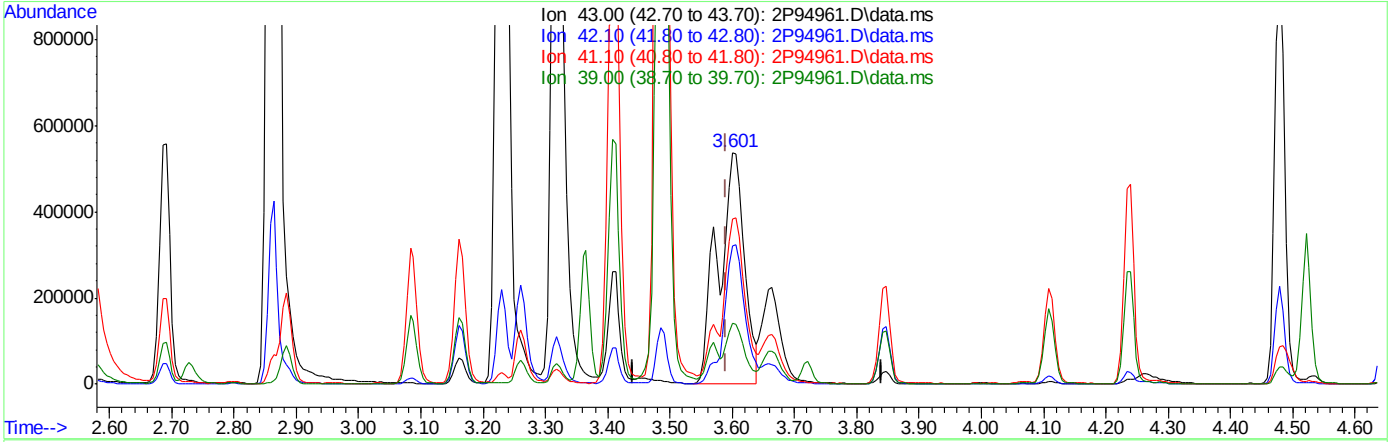
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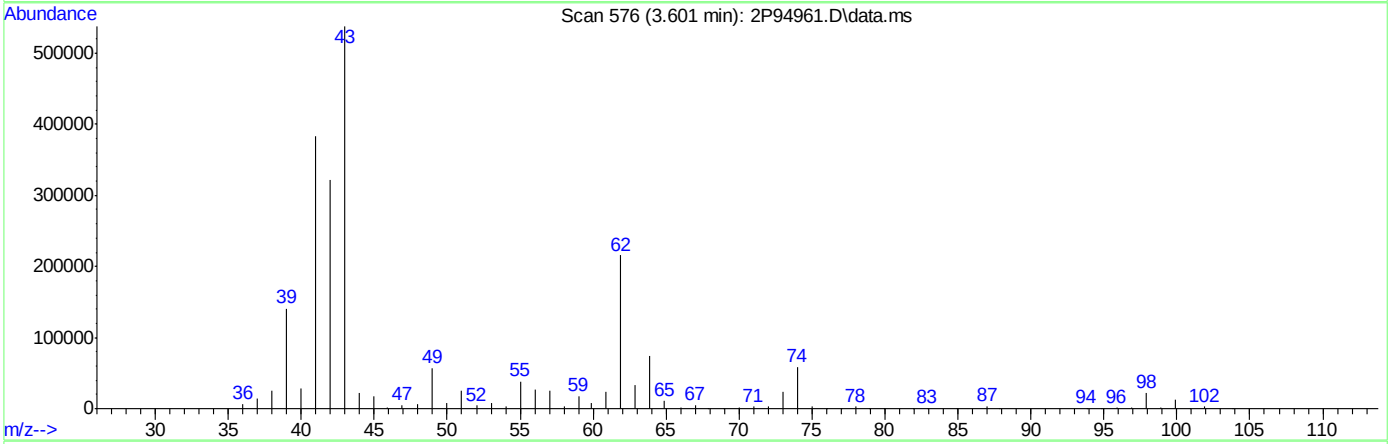
Ion	Exp%	Act%
43.00	100	100
42.10	61.30	61.11
41.10	73.00	69.60
39.00	27.40	24.83

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94961.D
Acq On : 4 Nov 2022 1:21 pm
Operator : courtnef
Sample : IC3622-6
Misc : MS52512,V2P3622,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Nov 04 13:35:16 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94961.D\data.ms

(50) Isobutyl alcohol

3.601min (+0.010) 1799.64ug/L m

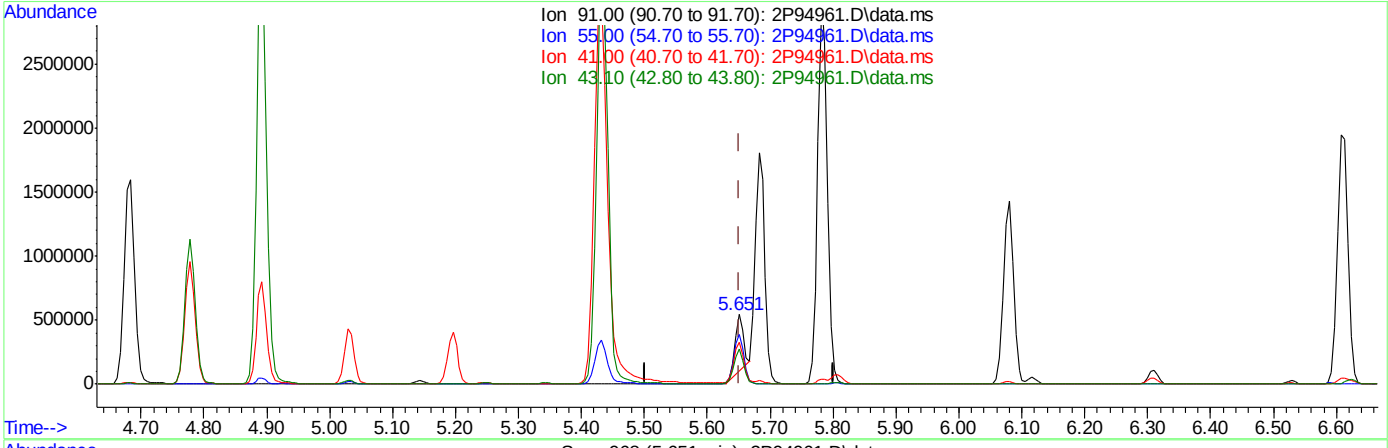
response 1542689

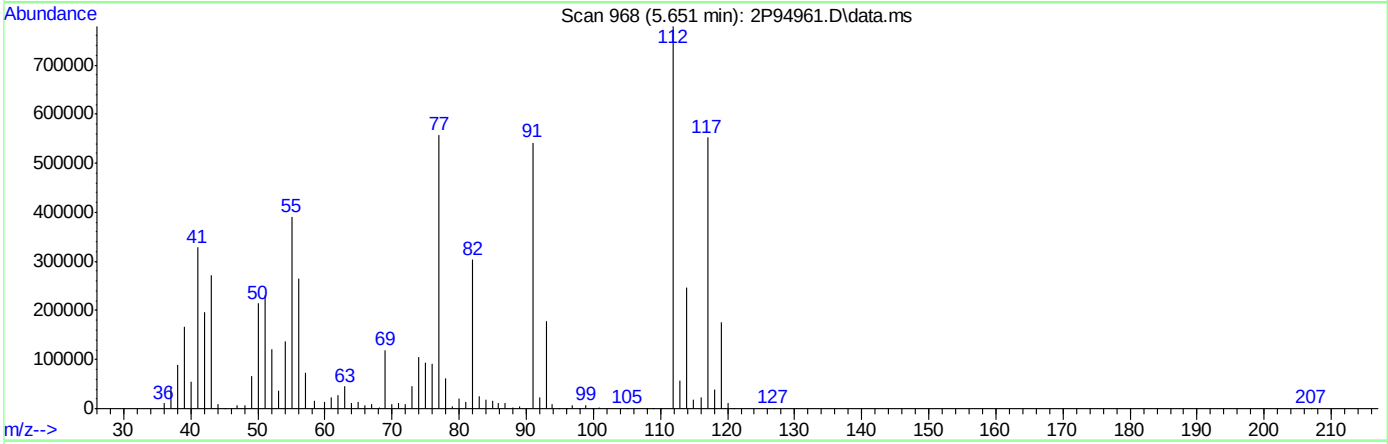
Ion	Exp%	Act%
43.00	100	100
42.10	61.30	59.92
41.10	73.00	71.27
39.00	27.40	26.20

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94961.D
Acq On : 4 Nov 2022 1:21 pm
Operator : courtnef
Sample : IC3622-6
Misc : MS52512,V2P3622,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Nov 04 13:35:16 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94961.D\data.ms

(76) 1-Chlorohexane

5.651min (-0.001) 52.05ug/L

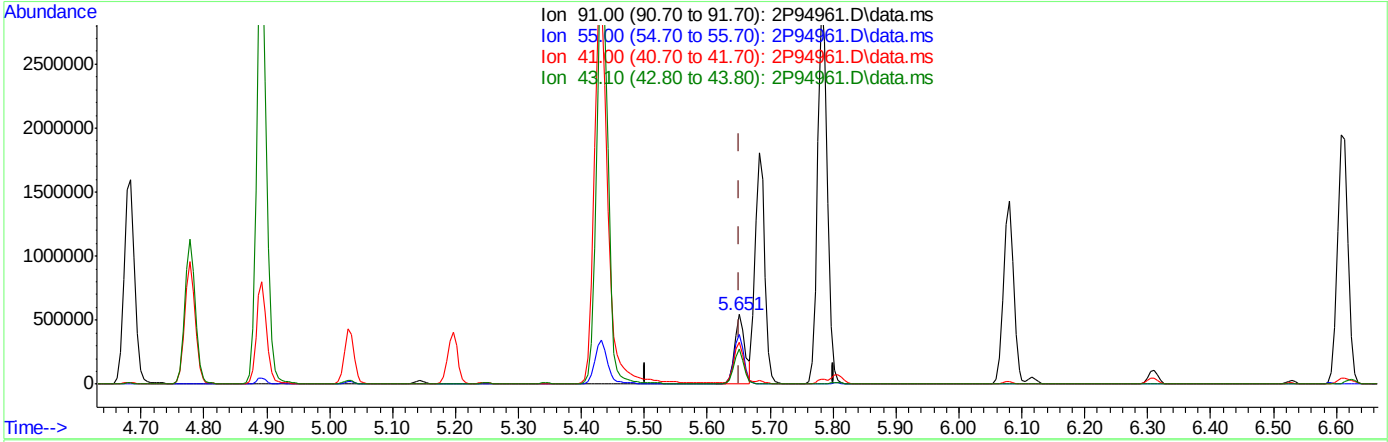
response 401546

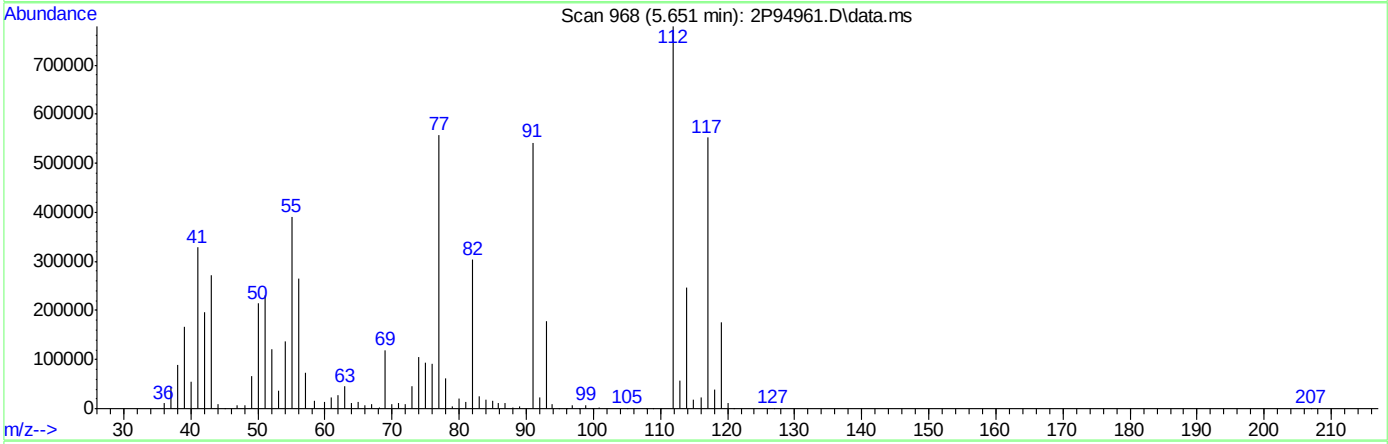
Ion	Exp%	Act%
91.00	100	100
55.00	65.20	71.06
41.00	51.70	58.66
43.10	43.60	49.25

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94961.D
Acq On : 4 Nov 2022 1:21 pm
Operator : courtnef
Sample : IC3622-6
Misc : MS52512,V2P3622,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Nov 04 13:35:16 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94961.D\data.ms

(76) 1-Chlorohexane

5.651min (-0.001) 79.04ug/L m

response 609717

Ion	Exp%	Act%
91.00	100	100
55.00	65.20	71.96
41.00	51.70	60.62
43.10	43.60	50.20

2P94963.D

Manual Integrations APPROVED (compounds with "m" flag)

Shanica O'Connor 11/07/22 18:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94963.D
Acq On : 4 Nov 2022 1:53 pm
Operator : courtnef
Sample : IC3622-7
Misc : MS52512,V2P3622,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Nov 04 14:15:20 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.723	96	1467125	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.643	117	1029461	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.332	152	440052	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.268	113	316663	49.16	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.32%			
49) 1,2-Dichloroethane-d4	3.556	65	459096	53.79	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.58%			
63) Toluene-d8	4.649	98	1439457	50.20	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.40%			
86) 4-Bromofluorobenzene	6.495	174	342784	46.74	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 93.48%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.129	85	610593	103.05	ug/L	99
3) Chloromethane	1.255	50	617056	105.48	ug/L	98
4) 1,3-butadiene	1.323	39	597789	115.38	ug/L	98
5) Vinyl Chloride	1.307	62	682566	110.34	ug/L	99
6) Bromomethane	1.511	94	311161	92.55	ug/L	97
7) Chloroethane	1.584	64	184617	115.31	ug/L	98
8) Trichlorofluoromethane	1.673	101	240303	35.19	ug/L	95
9) Ethyl Ether	1.888	59	618311	127.84	ug/L	97
10) Ethanol	2.008	45	273082	Below Cal		93
11) 1,2-Dichlorotrifluoroe...	1.977	67	688724	112.63	ug/L	97
12) 1,1-Dichloroethene	1.982	61	862584	111.18	ug/L	98
13) Freon 113	2.013	101	526397	109.67	ug/L	93
14) Carbon Disulfide	1.997	76	1555113	118.23	ug/L	98
15) Iodomethane	2.060	142	409293	86.75	ug/L	97
16) Acrolein	2.160	56	899877	515.92	ug/L	98
17) Allyl chloride	2.248	41	729053	117.30	ug/L	96
18) Methylene Chloride	2.306	49	851538	157.30	ug/L	96
19) Acetone	2.327	43	1765074	498.47	ug/L	98
20) Methyl acetate	2.405	43	4323404	611.86	ug/L	98
21) trans-1,2-Dichloroethene	2.400	61	875561	114.69	ug/L	88
22) Hexane	2.468	56	493496	110.88	ug/L	95
23) Methyl Tert Butyl Ether	2.479	73	2059989	131.52	ug/L	70
24) Tert Butyl Alcohol	2.547	59	1921968	1363.44	ug/L	91
25) Acetonitrile	2.562	41	1842623	1079.87	ug/L	96
26) Di-isopropyl ether	2.693	45	2040659	121.86	ug/L	98
27) Chloroprene	2.735	53	2962854	106.85	ug/L	95
28) 1,1-Dichloroethane	2.730	63	1100250	113.47	ug/L	99
29) Acrylonitrile	2.735	52	1873891	527.24	ug/L	92
30) ETBE	2.887	59	2055185	132.17	ug/L	98
31) Vinyl acetate	2.866	43	7567299	600.72	ug/L	99
32) cis-1,2-Dichloroethene	3.023	96	598404	103.05	ug/L	94
33) 2,2-Dichloropropane	3.085	77	948229	121.16	ug/L	99
34) Bromochloromethane	3.132	128	232413	92.10	ug/L	98
35) Cyclohexane	3.164	56	1039750	119.32	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94963.D
Acq On : 4 Nov 2022 1:53 pm
Operator : courtnef
Sample : IC3622-7
Misc : MS52512,V2P3622,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Nov 04 14:15:20 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.169	83	1088748	109.09	ug/L		99
37) Ethyl acetate	3.232	43	5276023	565.60	ug/L		99
38) Tetrahydrofuran	3.263	42	405396	110.00	ug/L		96
40) Carbon Tetrachloride	3.268	117	737429m	110.38	ug/L		
41) 1,1,1-Trichloroethane	3.295	97	922660	106.37	ug/L		95
42) 2-Butanone	3.321	43	3004004	504.51	ug/L		96
43) 1,1-Dichloropropene	3.363	75	832480	106.84	ug/L		93
44) tert-Butyl formate	3.415	59	2698838	856.65	ug/L	#	61
45) Propionitrile	3.472	54	1727251	1186.98	ug/L		87
46) Methacrylonitrile	3.488	41	6116965	1201.75	ug/L		98
47) Benzene	3.498	78	2695088	114.74	ug/L		77
48) TAME	3.572	73	1962559	139.45	ug/L		91
50) Isobutyl alcohol	3.614	43	2192235m	2474.48	ug/L		
51) 1,2-Dichloroethane	3.593	62	899100	108.92	ug/L		99
52) Tert Amyl Alcohol	3.671	59	1597842	1469.64	ug/L	#	78
53) Trichloroethene	3.828	95	631478	103.77	ug/L		98
54) Methylcyclohexane	3.844	83	949137	115.48	ug/L		92
55) Dibromomethane	4.053	93	370446	107.15	ug/L		90
56) 1,2-Dichloropropane	4.110	63	623477	110.87	ug/L		98
57) Bromodichloromethane	4.147	83	765020	117.31	ug/L		99
58) Methyl methacrylate	4.236	41	810307	126.53	ug/L		93
59) 1,4-Dioxane	4.267	88	287496	1898.56	ug/L		96
60) 2-Chloroethyl vinyl ether	4.482	63	2294701	553.54	ug/L		97
61) cis-1,3-Dichloropropene	4.524	75	977701	116.44	ug/L		96
64) Toluene	4.681	91	2657733	103.38	ug/L		99
65) 2-Nitropropane	4.780	41	1580120	554.66	ug/L		99
66) 4-Methyl-2-pentanone	4.895	43	5387995	535.22	ug/L		99
67) trans-1,3-Dichloropropene	4.921	75	894707	117.82	ug/L		87
68) Tetrachloroethene	4.937	166	545991	93.16	ug/L		97
69) Ethyl methacrylate	5.031	69	977099	115.38	ug/L		96
70) 1,1,2-Trichloroethane	5.020	83	468097	105.57	ug/L		98
71) Dibromochloromethane	5.146	129	523077	97.52	ug/L		99
72) 1,3-Dichloropropane	5.198	76	1027897	104.85	ug/L		94
73) 1,2-Dibromoethane	5.298	107	567762	102.17	ug/L		100
74) 3,3-dimethyl-1-butanol	5.434	57	8897943	5367.93	ug/L		98
75) 2-hexanone	5.434	43	5631804	519.41	ug/L	#	48
76) 1-Chlorohexane	5.653	91	830103m	104.12	ug/L		
77) Ethylbenzene	5.685	91	2963913	105.93	ug/L		99
78) Chlorobenzene	5.653	112	1544047	101.75	ug/L		92
79) 1,1,1,2-Tetrachloroethane	5.700	131	516398	107.25	ug/L		98
80) m,p-Xylene	5.784	91	4792705	217.97	ug/L		99
81) o-Xylene	6.077	91	2316512	103.73	ug/L		97
82) Styrene	6.114	104	1784609	105.35	ug/L		97
83) Bromoform	6.119	173	302073	94.05	ug/L		99
84) Isopropylbenzene	6.307	105	2685777	105.35	ug/L		97
87) cis-1,4-Dichloro-2-butene	6.527	53	306533	122.73	ug/L		93
88) n-Propylbenzene	6.610	91	3197991	110.37	ug/L		100
89) Bromobenzene	6.574	156	563605	96.43	ug/L		89
90) 1,1,2,2-Tetrachloroethane	6.631	83	853841	109.50	ug/L		99
91) 1,3,5-Trimethylbenzene	6.757	105	2214297	110.61	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94963.D
Acq On : 4 Nov 2022 1:53 pm
Operator : courtnef
Sample : IC3622-7
Misc : MS52512,V2P3622,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Nov 04 14:15:20 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration

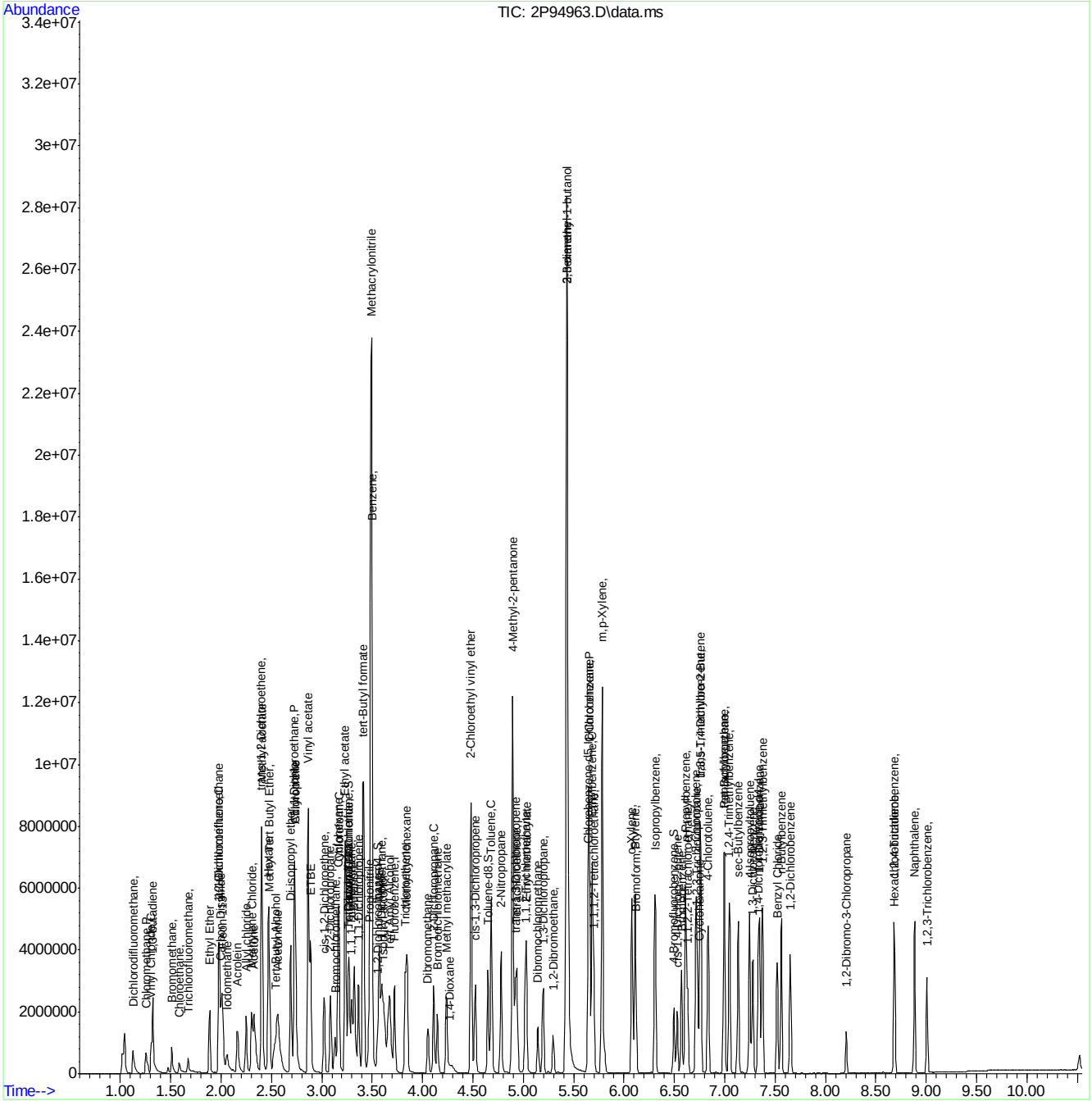
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.715	91	1909979	108.09	ug/L		98
93)	trans-1,4-Dichloro-2-B...	6.757	53	351829	120.17	ug/L		99
94)	1,2,3-Trichloropropane	6.726	110	289451	99.67	ug/L		95
95)	Cyclohexanone	6.746	55	299655	533.09	ug/L		96
96)	4-Chlorotoluene	6.835	91	1974102	108.02	ug/L		99
97)	tert-Butylbenzene	6.992	91	1269133	111.78	ug/L		92
99)	1,2,4-Trimethylbenzene	7.045	105	2126090	108.45	ug/L		97
100)	Pentachloroethane	6.997	167	278673	116.84	ug/L		93
101)	sec-Butylbenzene	7.133	105	2383838	109.26	ug/L		99
102)	4-Isopropyltoluene	7.248	119	2094164	111.64	ug/L		98
103)	1,3-Dichlorobenzene	7.280	146	1048953	101.25	ug/L		98
104)	1,2,3-Trimethylbenzene	7.374	105	2046454	105.24	ug/L		99
105)	1,4-Dichlorobenzene	7.343	146	1062861	99.60	ug/L		94
106)	n-Butylbenzene	7.562	92	1057429	115.37	ug/L		99
107)	Benzyl Chloride	7.520	126	313420	97.01	ug/L	#	90
108)	1,2-Dichlorobenzene	7.651	146	982187	100.47	ug/L		98
109)	1,2-Dibromo-3-Chloropr...	8.206	75	218439	98.33	ug/L		98
110)	Hexachlorobutadiene	8.687	225	183582	89.97	ug/L		98
111)	1,2,4-Trichlorobenzene	8.682	180	545508	98.30	ug/L		98
112)	Naphthalene	8.886	128	2310729	108.33	ug/L		99
113)	1,2,3-Trichlorobenzene	9.011	180	500917	96.39	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94963.D
Acq On : 4 Nov 2022 1:53 pm
Operator : courtnef
Sample : IC3622-7
Misc : MS52512,V2P3622,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Nov 04 14:15:20 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration



Manual Integration Approval Summary

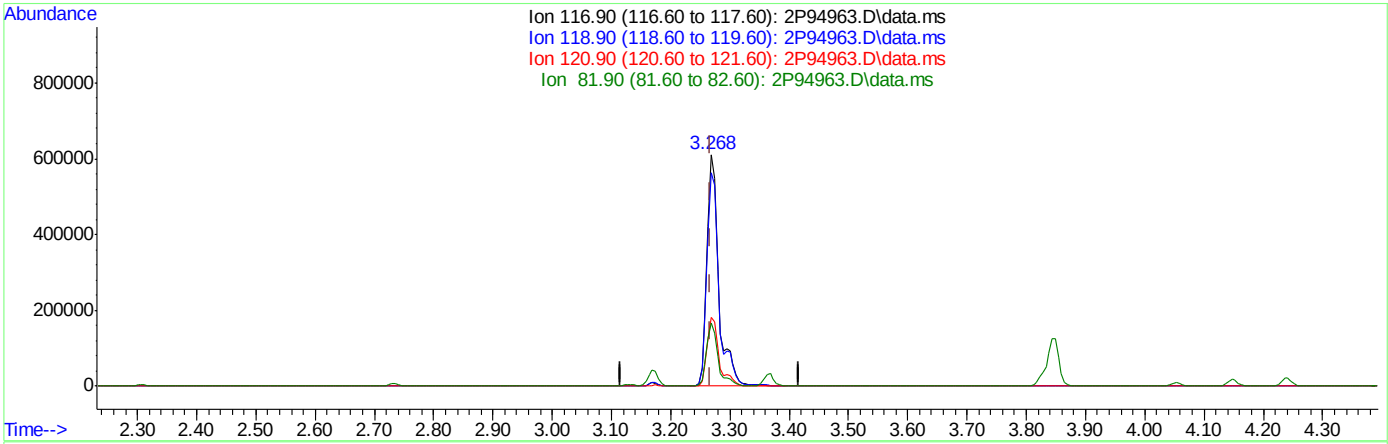
Sample Number: V2P3622-IC3622 **Method:** SW846 8260D
Lab FileID: 2P94963.D **Analyst approved:** 11/04/22 14:20 Courtney Failla
Injection Time: 11/04/22 13:53 **Supervisor approved:** 11/07/22 18:21 Shanica O'Connor

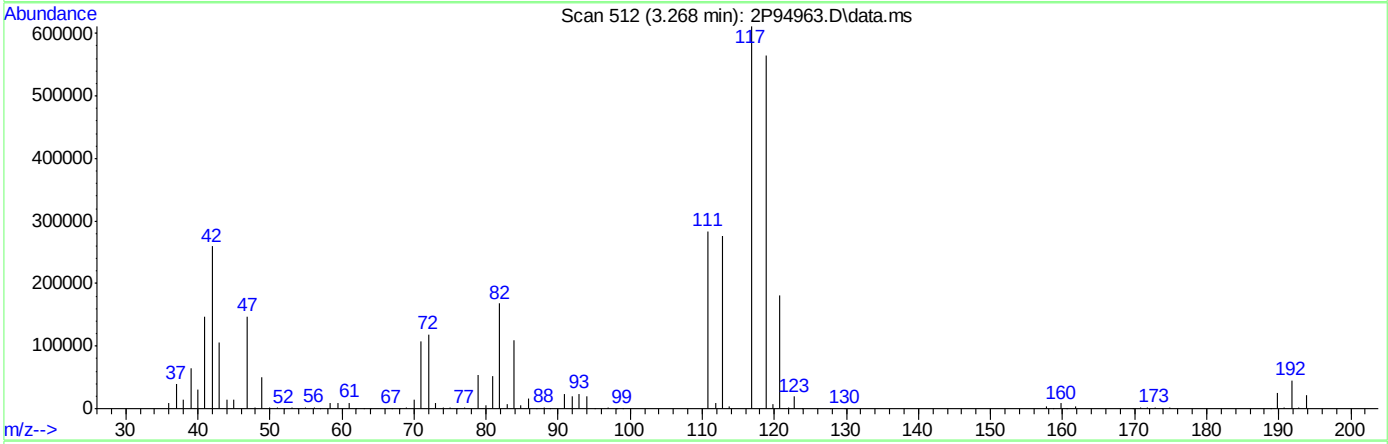
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.61	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94963.D
Acq On : 4 Nov 2022 1:53 pm
Operator : courtnef
Sample : IC3622-7
Misc : MS52512,V2P3622,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Nov 04 14:14:15 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94963.D\data.ms

(40) Carbon Tetrachloride ( )

3.268min (+0.002) 126.49ug/L

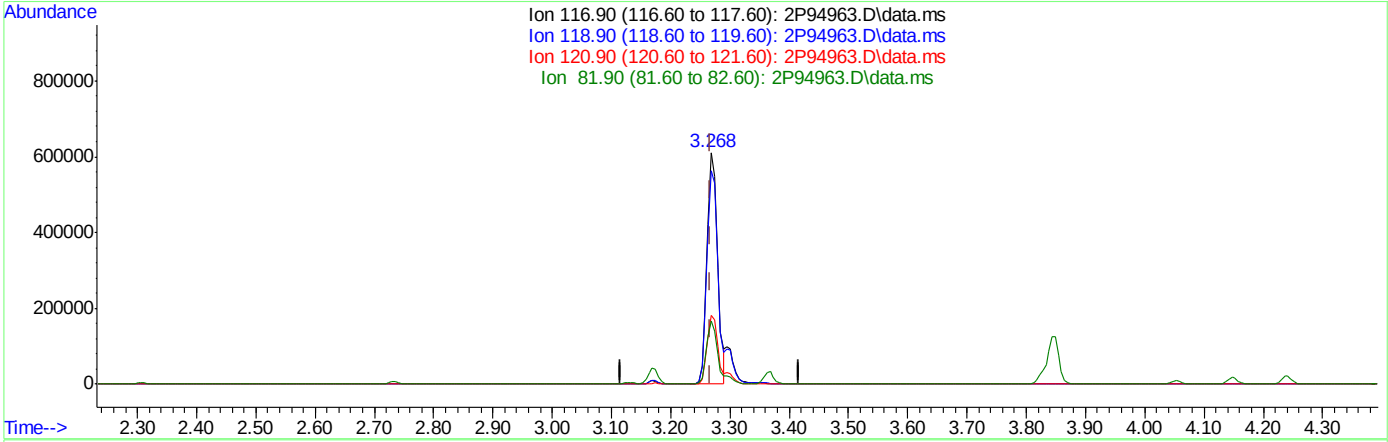
response 845064

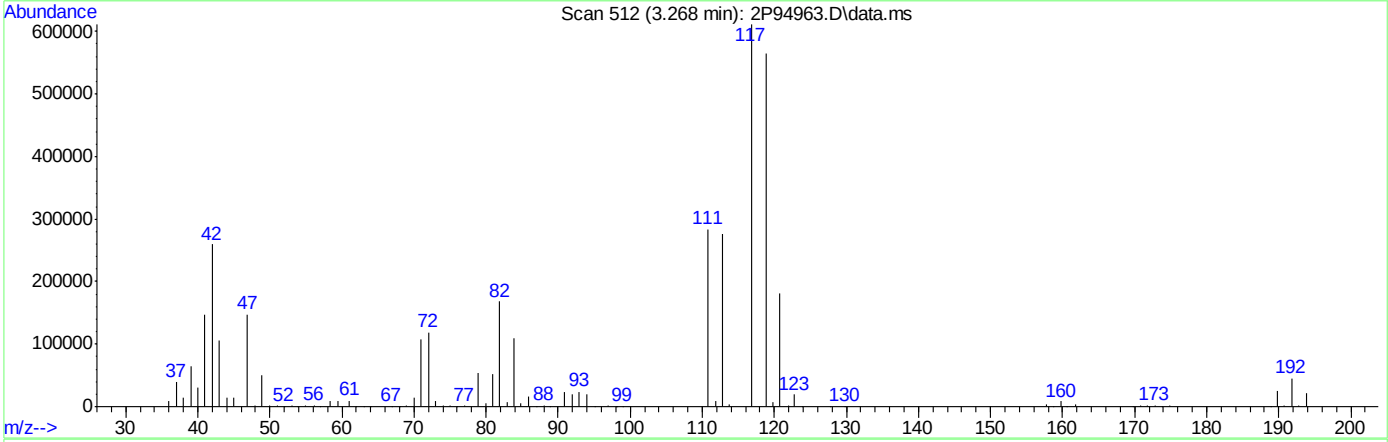
Ion	Exp%	Act%
116.90	100	100
118.90	95.80	92.35
120.90	29.50	29.69
81.90	30.20	27.35

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94963.D
Acq On : 4 Nov 2022 1:53 pm
Operator : courtnef
Sample : IC3622-7
Misc : MS52512,V2P3622,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Nov 04 14:14:15 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94963.D\data.ms

(40) Carbon Tetrachloride ( )

3.268min (+0.002) 110.38ug/L m

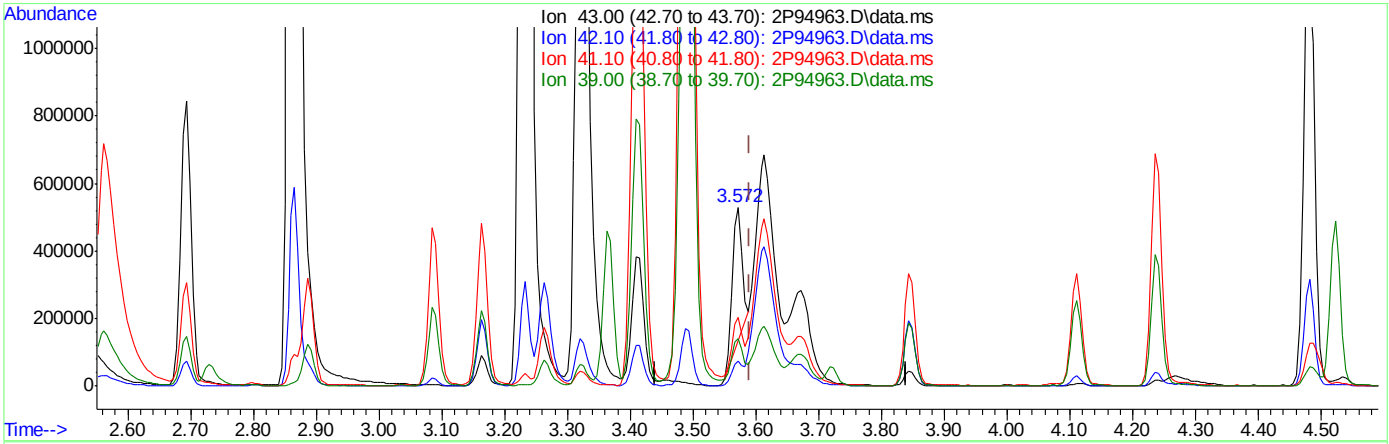
response 737429

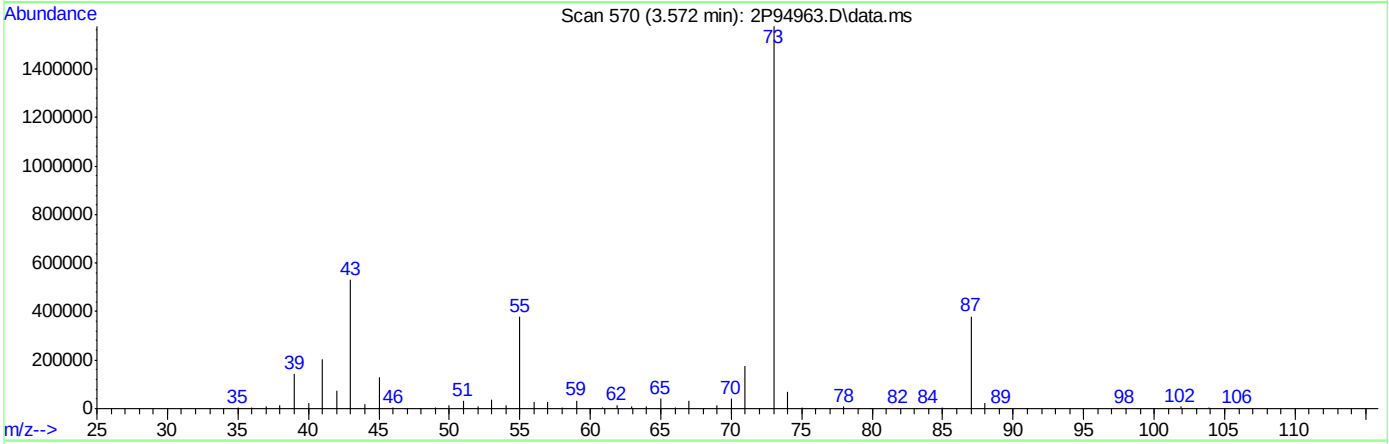
Ion	Exp%	Act%
116.90	100	100
118.90	95.80	92.35
120.90	29.50	29.69
81.90	30.20	27.43

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94963.D
Acq On : 4 Nov 2022 1:53 pm
Operator : courtnef
Sample : IC3622-7
Misc : MS52512,V2P3622,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Nov 04 14:14:15 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94963.D\data.ms

(50) Isobutyl alcohol

3.572min (-0.019) 496.68ug/L

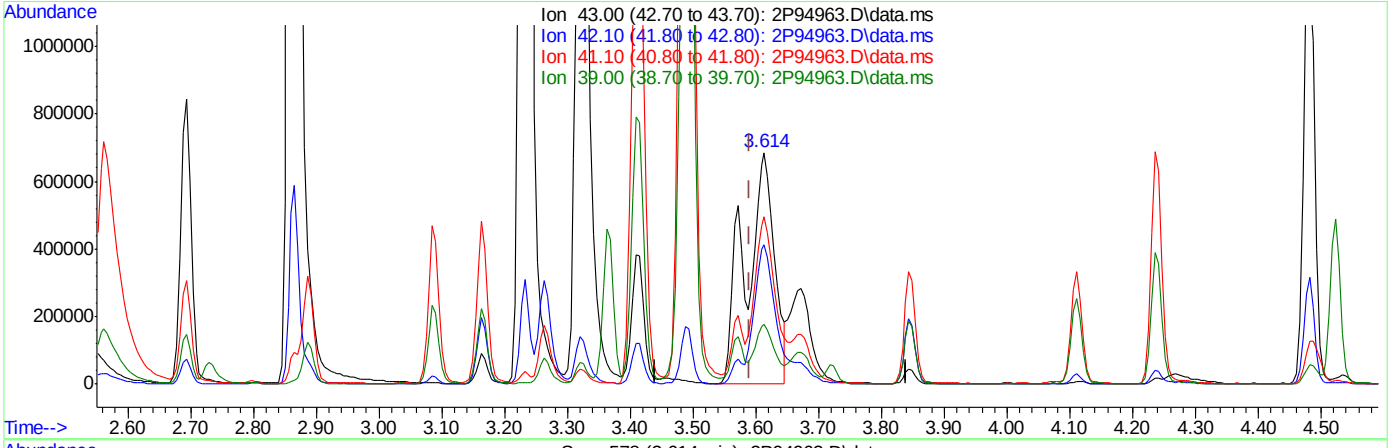
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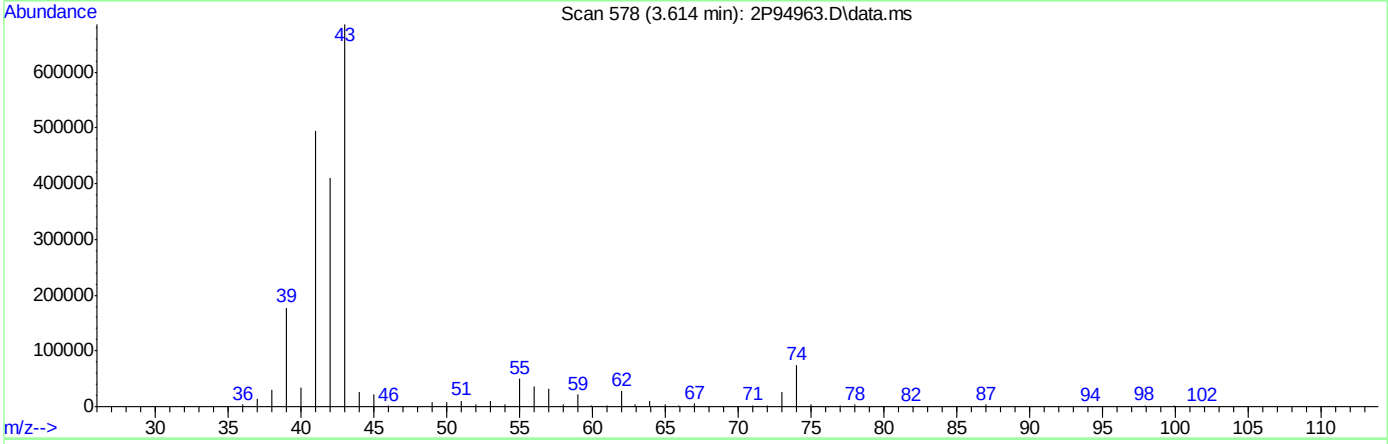
Ion	Exp%	Act%
43.00	100	100
42.10	61.30	13.50
41.10	73.00	33.93
39.00	27.40	23.70

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94963.D
Acq On : 4 Nov 2022 1:53 pm
Operator : courtnef
Sample : IC3622-7
Misc : MS52512,V2P3622,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Nov 04 14:14:15 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94963.D\data.ms

(50) Isobutyl alcohol

3.614min (+0.023) 2474.48ug/L m

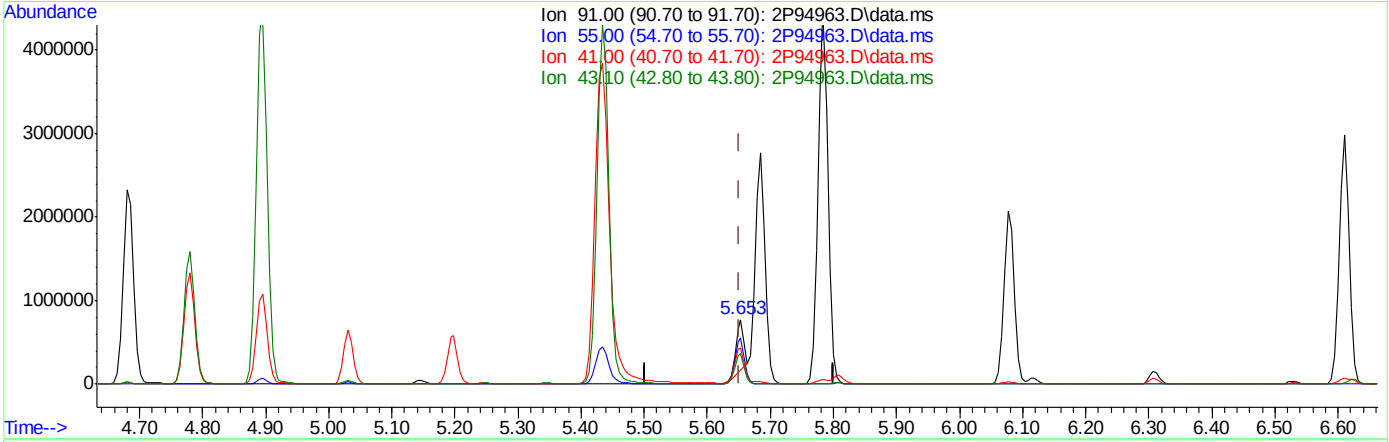
response 2192235

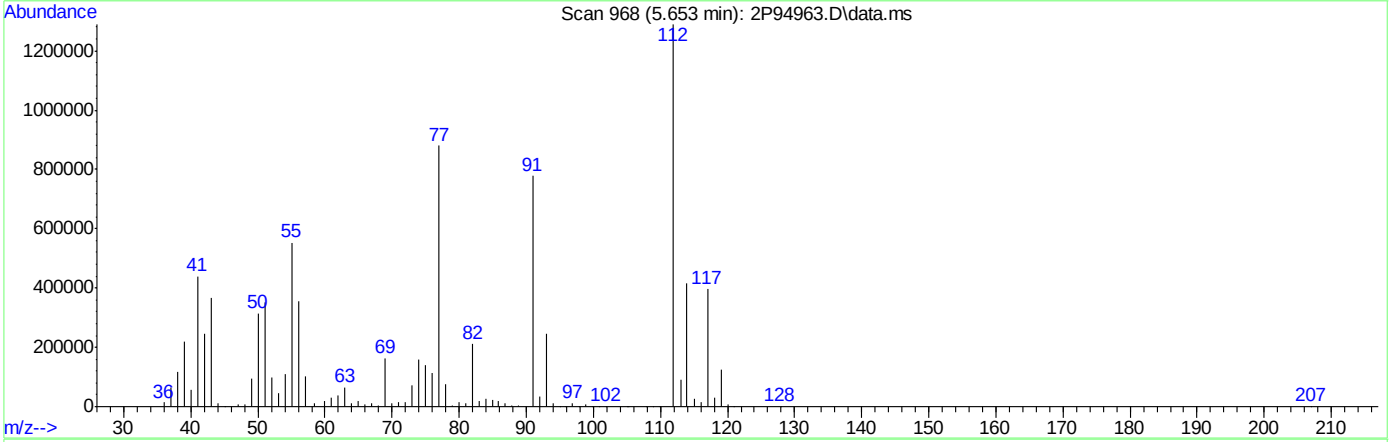
Ion	Exp%	Act%
43.00	100	100
42.10	61.30	59.94
41.10	73.00	72.08
39.00	27.40	25.87

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94963.D
Acq On : 4 Nov 2022 1:53 pm
Operator : courtnef
Sample : IC3622-7
Misc : MS52512,V2P3622,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Nov 04 14:14:15 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94963.D\data.ms

(76) 1-Chlorohexane

5.653min (+0.002) 73.07ug/L

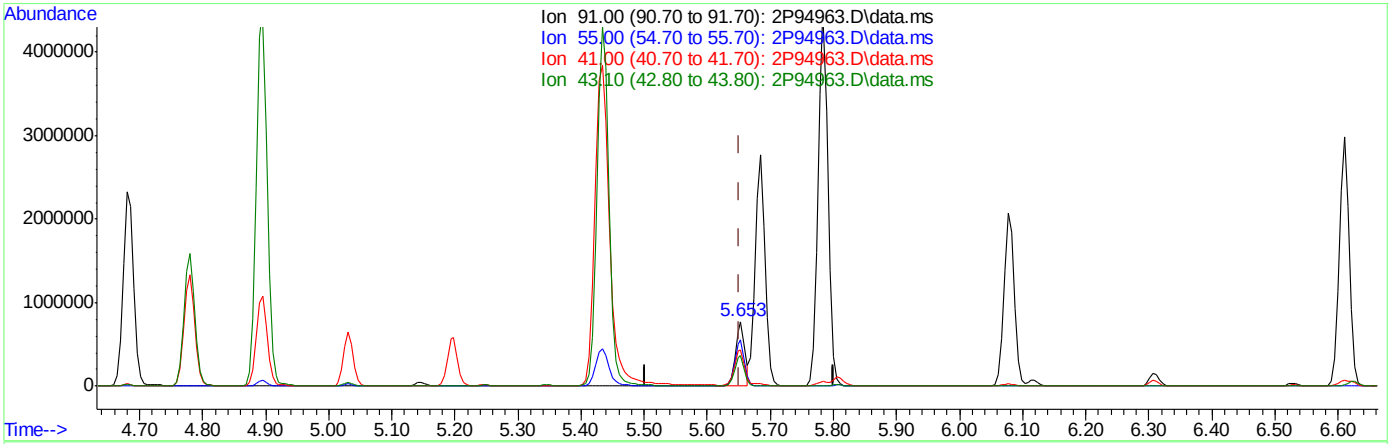
response 582588

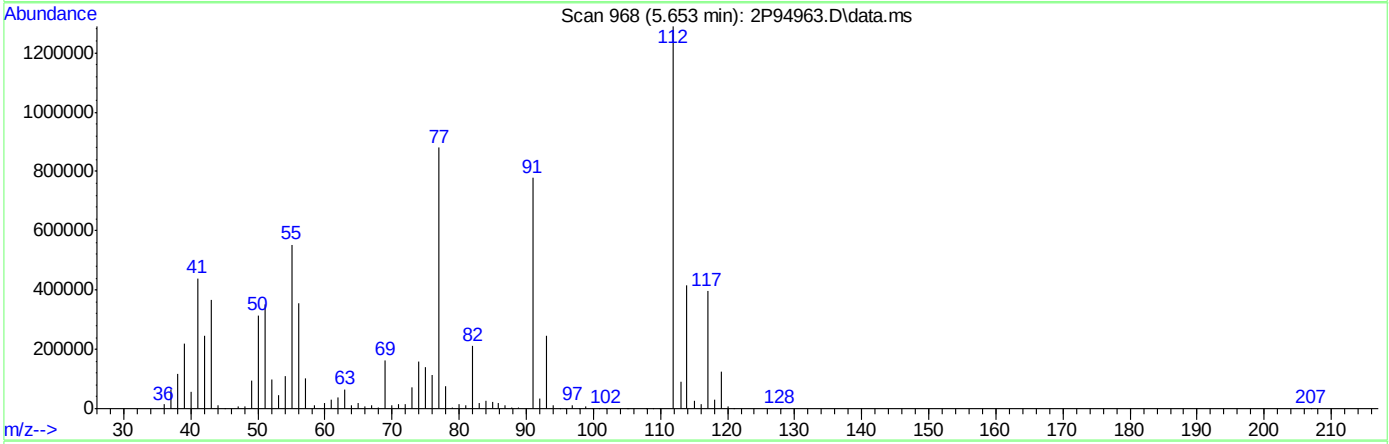
Ion	Exp%	Act%
91.00	100	100
55.00	65.20	69.36
41.00	51.70	53.98
43.10	43.60	45.82

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94963.D
Acq On : 4 Nov 2022 1:53 pm
Operator : courtnef
Sample : IC3622-7
Misc : MS52512,V2P3622,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Nov 04 14:14:15 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Oct 31 15:01:08 2022
Response via : Initial Calibration





TIC: 2P94963.D\data.ms

(76) 1-Chlorohexane

5.653min (+0.002) 104.12ug/L m

response 830103

Ion	Exp%	Act%
91.00	100	100
55.00	65.20	71.05
41.00	51.70	56.59
43.10	43.60	47.05

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 11/07/22 18:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94969.D
Acq On : 4 Nov 2022 3:50 pm
Operator : courtnef
Sample : ICV3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Nov 04 16:48:54 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.719	96	1444089	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.644	117	993351	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.333	152	429951	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.264	113	303827	50.35	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.70%			
49) 1,2-Dichloroethane-d4	3.552	65	450970	51.94	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.88%			
63) Toluene-d8	4.650	98	1395228	49.40	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.80%			
86) 4-Bromofluorobenzene	6.496	174	329444	49.99	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.98%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.125	85	187407	34.09	ug/L	99
3) Chloromethane	1.251	50	234141	37.89	ug/L	99
4) 1,3-butadiene	1.319	39	272123	42.24	ug/L	99
5) Vinyl Chloride	1.308	62	256161	38.01	ug/L	99
6) Bromomethane	1.512	94	127901	40.66	ug/L	96
7) Chloroethane	1.580	64	73850	37.76	ug/L	96
9) Ethyl Ether	1.884	59	201854	35.55	ug/L	99
10) Ethanol	1.988	45	128017	718.23	ug/L	94
11) 1,2-Dichlorotrifluoroe...	1.978	67	235766	36.17	ug/L	99
12) 1,1-Dichloroethene	1.978	61	315804	39.52	ug/L	98
13) Freon 113	2.014	101	172065	35.67	ug/L	98
14) Carbon Disulfide	1.999	76	518028	34.47	ug/L	99
15) Iodomethane	2.061	142	116727	31.98	ug/L	99
16) Acrolein	2.161	56	408176	231.76	ug/L	99
17) Allyl chloride	2.244	41	341402	46.71	ug/L	97
18) Methylene Chloride	2.302	49	297641	34.02	ug/L	98
19) Acetone	2.323	43	736547	191.20	ug/L	99
20) Methyl acetate	2.396	43	1625065	193.82	ug/L	99
21) trans-1,2-Dichloroethene	2.401	61	314540	39.51	ug/L	97
22) Hexane	2.469	56	164834	37.00	ug/L	99
23) Methyl Tert Butyl Ether	2.475	73	758404	40.34	ug/L	90
24) Tert Butyl Alcohol	2.516	59	802018	408.48	ug/L	99
26) Di-isopropyl ether	2.689	45	758125	39.14	ug/L	100
27) Chloroprene	2.731	53	1160988	40.52	ug/L	98
28) 1,1-Dichloroethane	2.731	63	419237	40.44	ug/L	99
29) Acrylonitrile	2.731	52	756427	200.66	ug/L	99
30) ETBE	2.882	59	727779	38.44	ug/L	99
31) Vinyl acetate	2.862	43	3560198	238.30	ug/L	100
32) cis-1,2-Dichloroethene	3.024	96	229007	39.77	ug/L	98
33) 2,2-Dichloropropane	3.086	77	327625	38.46	ug/L	99
34) Bromochloromethane	3.128	128	87793	37.27	ug/L	99
35) Cyclohexane	3.165	56	375062	40.14	ug/L	98
36) Chloroform	3.170	83	399484	39.21	ug/L	98
37) Ethyl acetate	3.228	43	2249511	213.87	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94969.D
Acq On : 4 Nov 2022 3:50 pm
Operator : courtnef
Sample : ICV3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Nov 04 16:48:54 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Tetrahydrofuran	3.259	42	166029	40.23	ug/L	99
40) Carbon Tetrachloride	3.269	117	266144m	41.87	ug/L	
41) 1,1,1-Trichloroethane	3.296	97	343840	40.74	ug/L	99
42) 2-Butanone	3.317	43	1254455	197.15	ug/L	99
43) 1,1-Dichloropropene	3.364	75	303205	39.00	ug/L	98
44) tert-Butyl formate	3.411	59	730423	158.70	ug/L	99
45) Propionitrile	3.463	54	671781	392.17	ug/L	99
46) Methacrylonitrile	3.484	41	2469670	414.96	ug/L	99
47) Benzene	3.494	78	953571	38.54	ug/L	97
48) TAME	3.568	73	753263	42.08	ug/L	99
50) Isobutyl alcohol	3.599	43	892977m	825.34	ug/L	
51) 1,2-Dichloroethane	3.589	62	327852	38.95	ug/L	99
52) Tert Amyl Alcohol	3.657	59	644831	411.89	ug/L	98
53) Trichloroethene	3.824	95	234004	39.25	ug/L	99
54) Methylcyclohexane	3.845	83	343970	41.32	ug/L	98
55) Dibromomethane	4.049	93	131357	39.28	ug/L	98
56) 1,2-Dichloropropane	4.106	63	221390	37.13	ug/L	99
57) Bromodichloromethane	4.143	83	276123	42.79	ug/L	98
58) Methyl methacrylate	4.237	41	315681	44.88	ug/L	97
59) 1,4-Dioxane	4.258	88	129015	867.02	ug/L	95
60) 2-Chloroethyl vinyl ether	4.478	63	859039	211.49	ug/L	99
61) cis-1,3-Dichloropropene	4.519	75	351011	39.00	ug/L	97
64) Toluene	4.682	91	996960	38.85	ug/L	99
65) 2-Nitropropane	4.776	41	609322	218.46	ug/L	98
66) 4-Methyl-2-pentanone	4.891	43	2191374	199.12	ug/L	99
67) trans-1,3-Dichloropropene	4.917	75	343203	44.83	ug/L	92
68) Tetrachloroethene	4.938	166	201777	39.73	ug/L	98
69) Ethyl methacrylate	5.032	69	344004	39.40	ug/L	92
70) 1,1,2-Trichloroethane	5.016	83	177291	39.24	ug/L	98
71) Dibromochloromethane	5.142	129	180219	39.64	ug/L	98
72) 1,3-Dichloropropane	5.194	76	364150	36.84	ug/L	98
73) 1,2-Dibromoethane	5.294	107	208618	40.22	ug/L	98
74) 3,3-dimethyl-1-butanol	5.430	57	4057208	2383.88	ug/L	98
75) 2-hexanone	5.430	43	2506556	213.12	ug/L	81
76) 1-Chlorohexane	5.649	91	328766m	40.70	ug/L	
77) Ethylbenzene	5.681	91	1085721	39.12	ug/L	100
78) Chlorobenzene	5.654	112	584327	39.28	ug/L	98
79) 1,1,1,2-Tetrachloroethane	5.696	131	188614	41.68	ug/L	95
80) m,p-Xylene	5.780	91	1759485	80.84	ug/L	99
81) o-Xylene	6.078	91	879039	40.94	ug/L	98
82) Styrene	6.109	104	658387	42.73	ug/L	99
83) Bromoform	6.120	173	102125	41.62	ug/L	97
84) Isopropylbenzene	6.308	105	1004232	41.04	ug/L	99
87) cis-1,4-Dichloro-2-butene	6.528	53	102878	39.64	ug/L	98
88) n-Propylbenzene	6.606	91	1218908	40.60	ug/L	100
89) Bromobenzene	6.570	156	205310	38.06	ug/L	98
90) 1,1,2,2-Tetrachloroethane	6.627	83	327908	39.06	ug/L	99
91) 1,3,5-Trimethylbenzene	6.758	105	807384	40.43	ug/L	99
92) 2-Chlorotoluene	6.711	91	711422	39.54	ug/L	100
93) trans-1,4-Dichloro-2-B...	6.758	53	126500	41.43	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94969.D
Acq On : 4 Nov 2022 3:50 pm
Operator : courtnef
Sample : ICV3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Nov 04 16:48:54 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

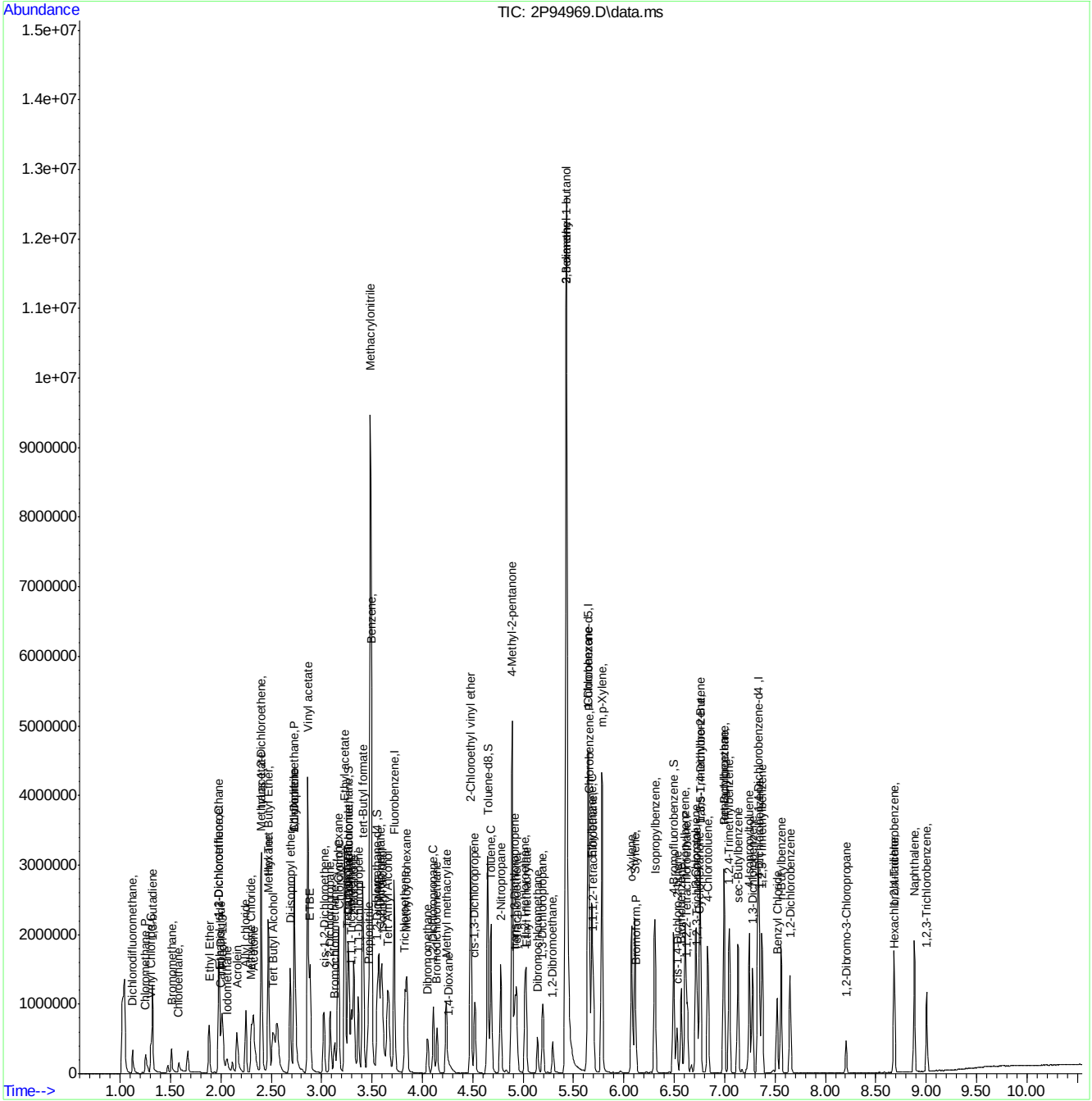
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
94)	1,2,3-Trichloropropane	6.727	110	107486	36.48	ug/L		92
95)	Cyclohexanone	6.748	55	115189	196.92	ug/L		97
96)	4-Chlorotoluene	6.831	91	753781	40.23	ug/L		99
97)	tert-Butylbenzene	6.993	91	471406	41.33	ug/L		97
99)	1,2,4-Trimethylbenzene	7.046	105	799076	41.60	ug/L		99
100)	Pentachloroethane	6.993	167	107057	43.10	ug/L		96
101)	sec-Butylbenzene	7.135	105	938347	42.79	ug/L		99
102)	4-Isopropyltoluene	7.244	119	806966	43.62	ug/L		99
103)	1,3-Dichlorobenzene	7.276	146	402911	40.89	ug/L		100
104)	1,2,3-Trimethylbenzene	7.370	105	797100	41.64	ug/L		99
105)	1,4-Dichlorobenzene	7.344	146	401298	38.83	ug/L		99
106)	n-Butylbenzene	7.558	92	378133	39.58	ug/L		98
107)	Benzyl Chloride	7.522	126	97515	38.04	ug/L	#	86
108)	1,2-Dichlorobenzene	7.652	146	370892	39.81	ug/L		96
109)	1,2-Dibromo-3-Chloropr...	8.207	75	75922	41.01	ug/L		90
110)	Hexachlorobutadiene	8.688	225	68007	41.18	ug/L		86
111)	1,2,4-Trichlorobenzene	8.683	180	199745	40.98	ug/L		96
112)	Naphthalene	8.881	128	863152	42.73	ug/L		99
113)	1,2,3-Trichlorobenzene	9.007	180	184430	40.50	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94969.D
Acq On : 4 Nov 2022 3:50 pm
Operator : courtnef
Sample : ICV3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Nov 04 16:48:54 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



Manual Integration Approval Summary

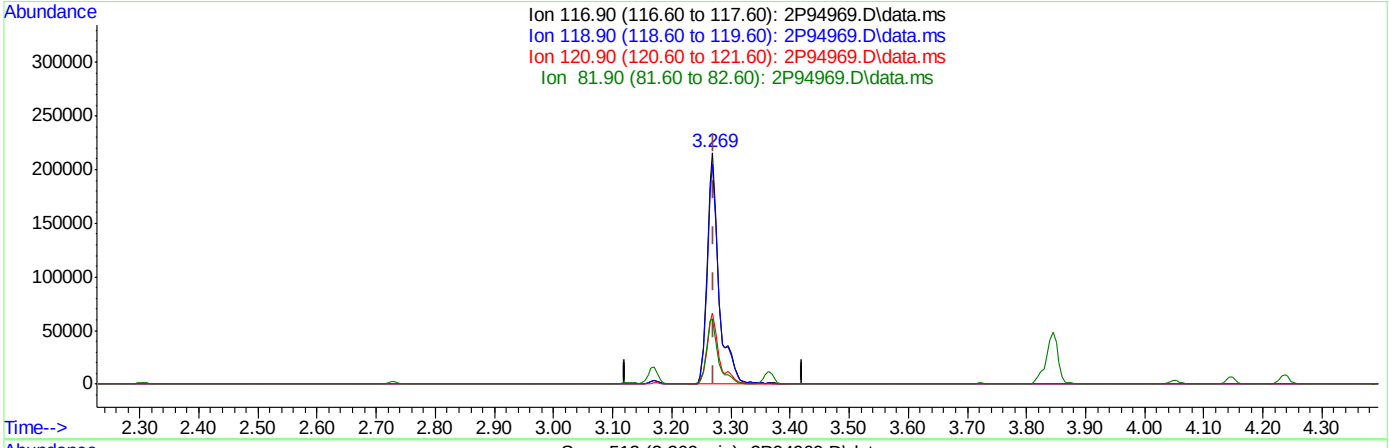
Sample Number: V2P3622-ICV3622 **Method:** SW846 8260D
Lab FileID: 2P94969.D **Analyst approved:** 11/04/22 16:52 Courtney Failla
Injection Time: 11/04/22 15:50 **Supervisor approved:** 11/07/22 18:21 Shanica O'Connor

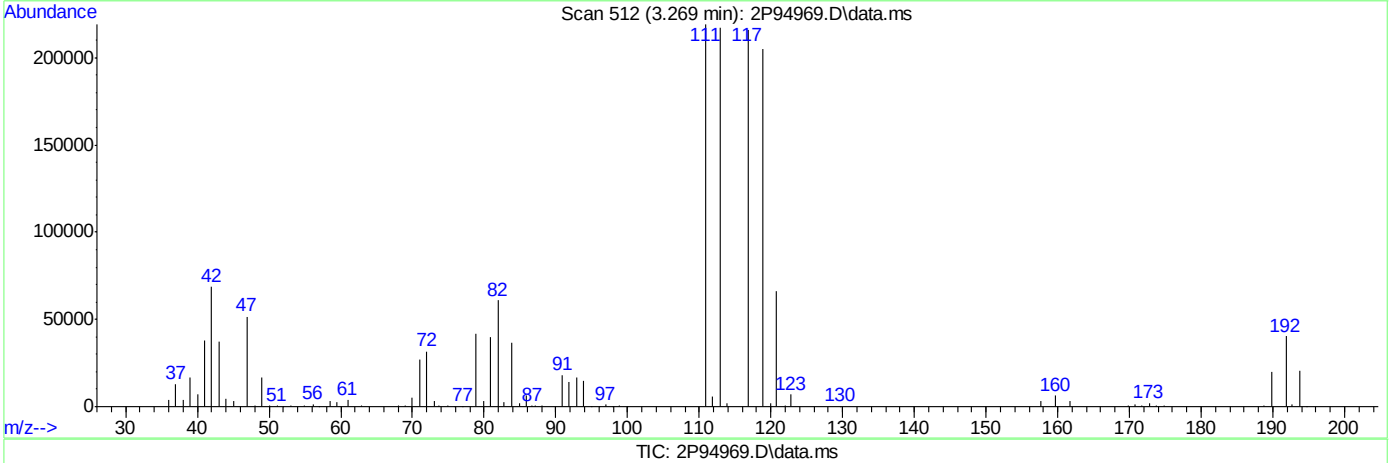
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.60	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94969.D
Acq On : 4 Nov 2022 3:50 pm
Operator : courtnef
Sample : ICV3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Nov 04 16:46:05 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P94969.D\data.ms

(40) Carbon Tetrachloride ( )

3.269min (-0.002) 47.27ug/L

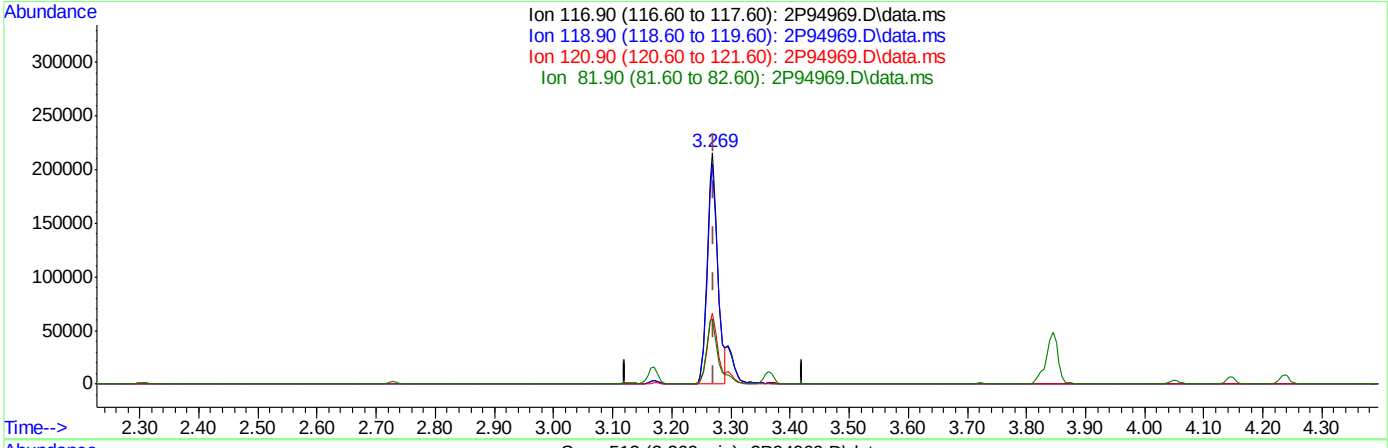
response 300496

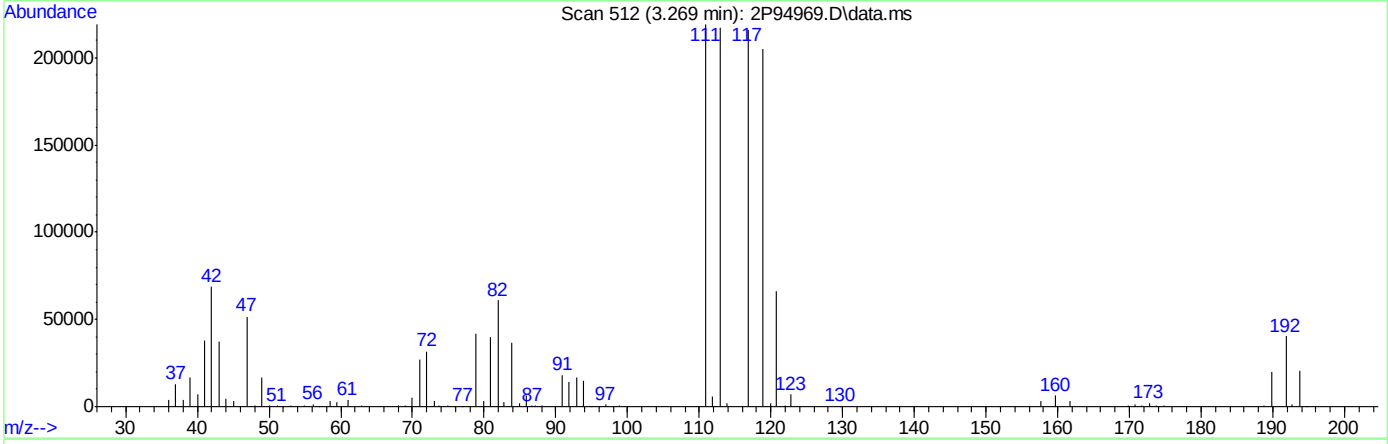
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	94.93
120.90	30.80	30.67
81.90	27.00	28.09

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94969.D
Acq On : 4 Nov 2022 3:50 pm
Operator : courtnef
Sample : ICV3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Nov 04 16:46:05 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P94969.D\data.ms

(40) Carbon Tetrachloride ( )

3.269min (-0.002) 41.87ug/L m

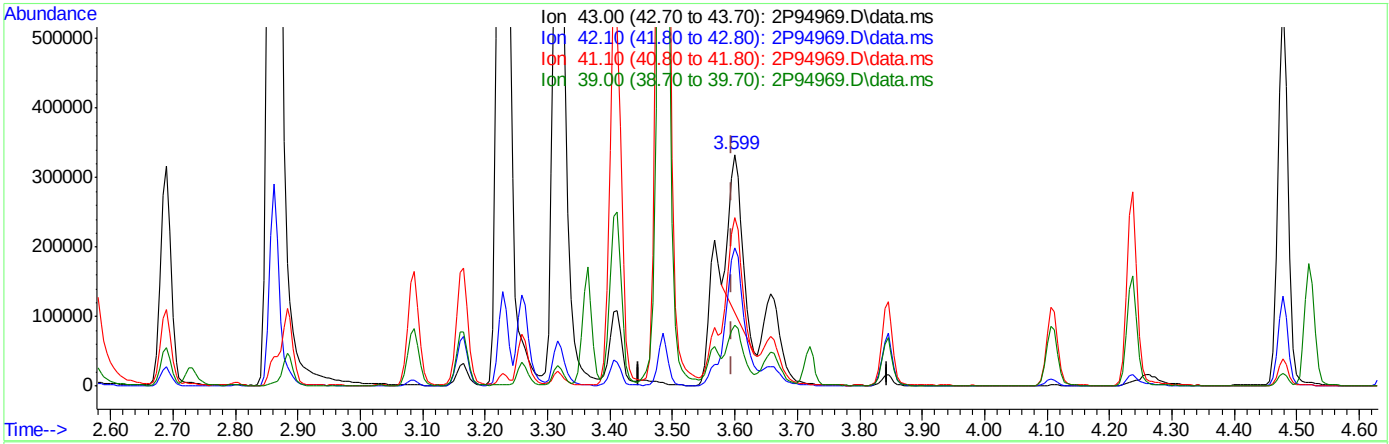
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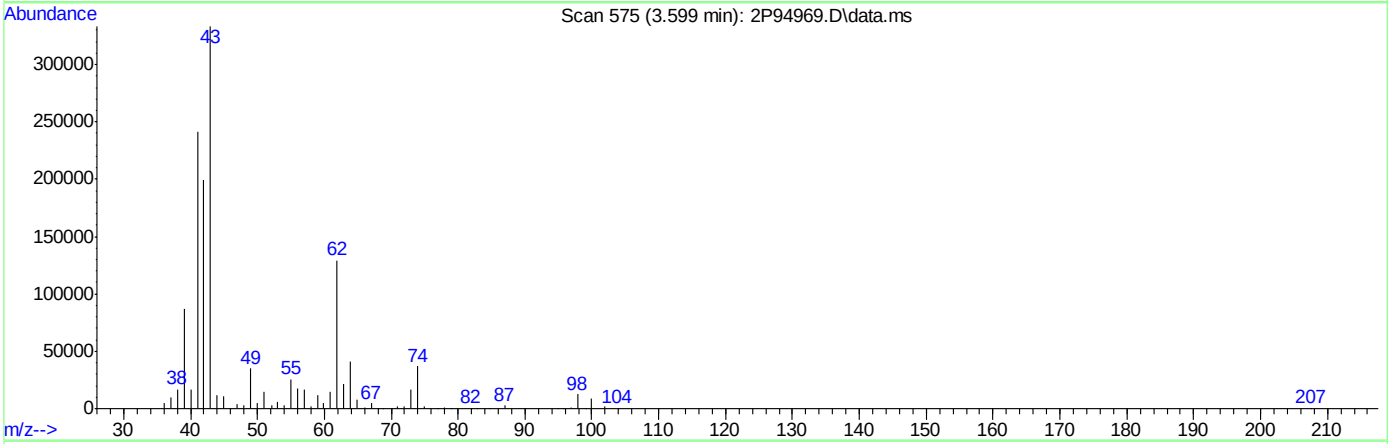
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	94.93
120.90	30.80	30.67
81.90	27.00	28.20

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94969.D
Acq On : 4 Nov 2022 3:50 pm
Operator : courtnef
Sample : ICV3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Nov 04 16:46:05 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P94969.D\data.ms

(50) Isobutyl alcohol

3.599min (+0.004) 289.23ug/L

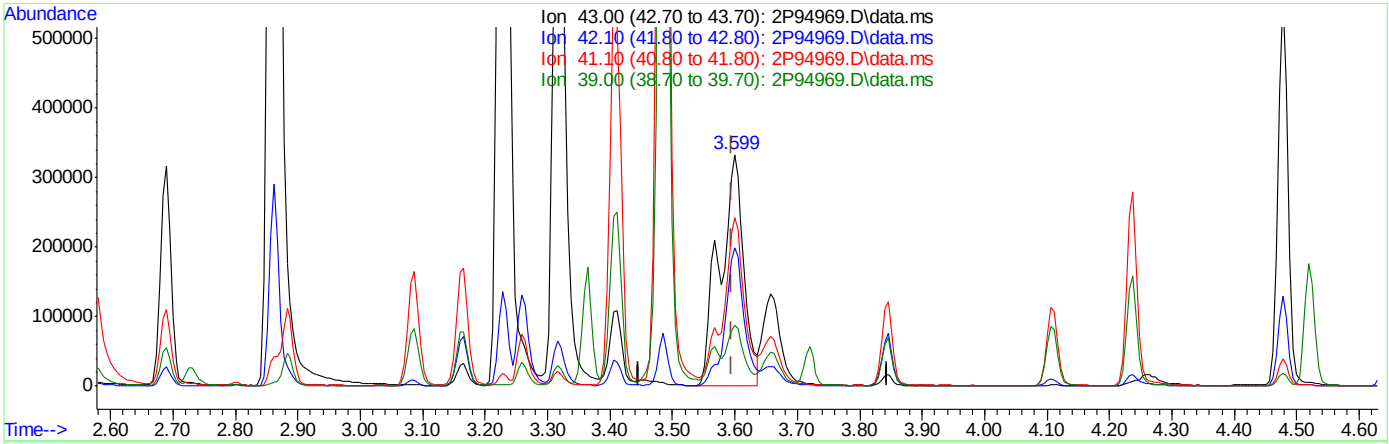
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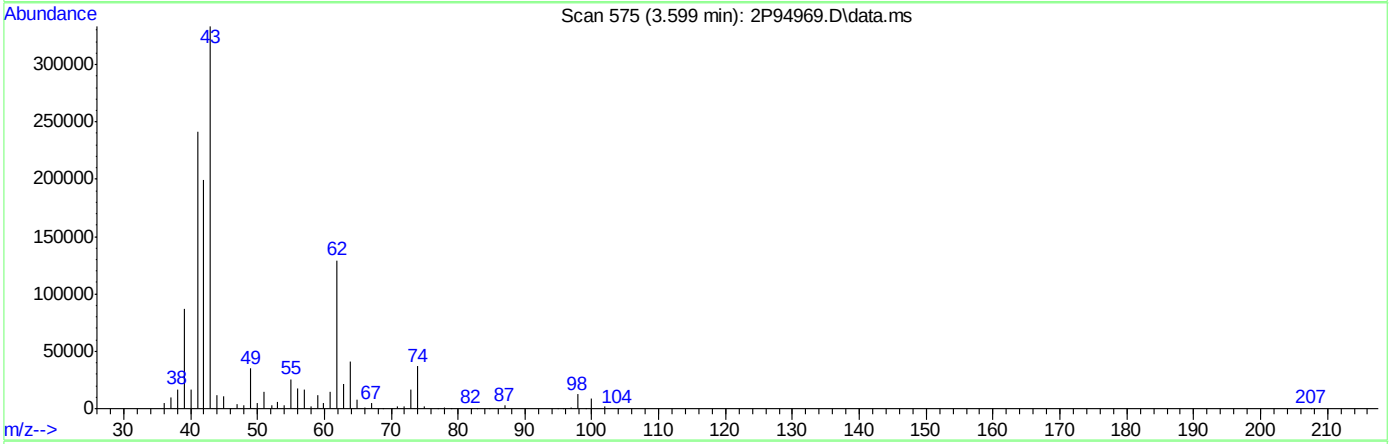
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	59.71
41.10	71.90	68.80
39.00	26.60	24.96

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94969.D
Acq On : 4 Nov 2022 3:50 pm
Operator : courtnef
Sample : ICV3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Nov 04 16:46:05 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P94969.D\data.ms

(50) Isobutyl alcohol

3.599min (+0.004) 825.34ug/L m

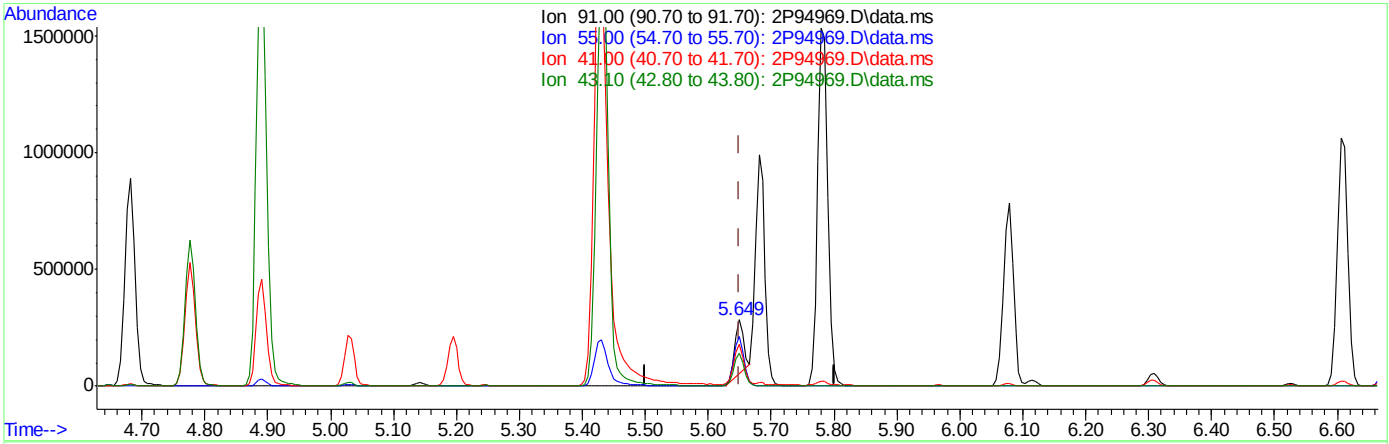
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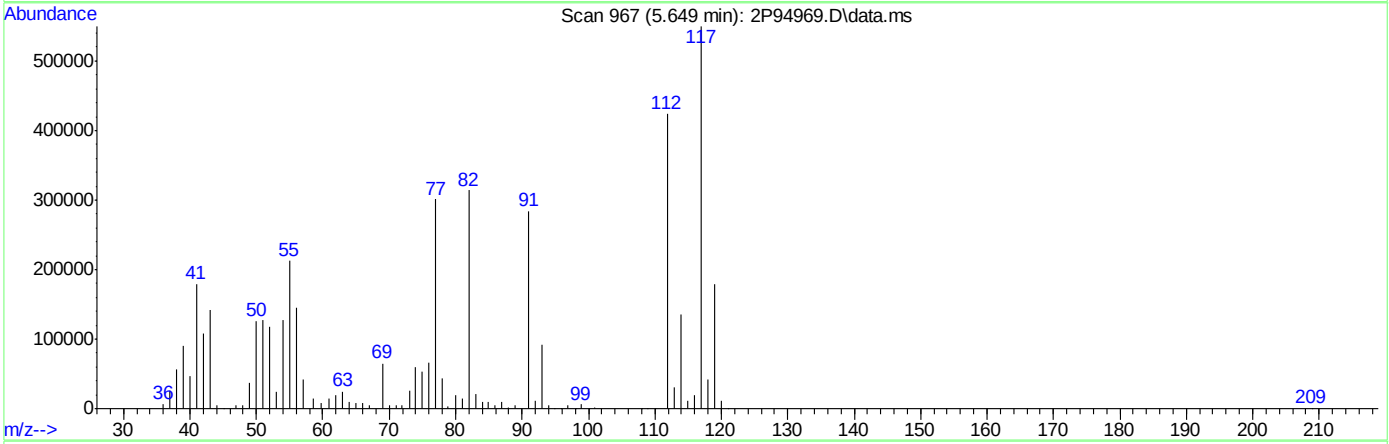
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	59.84
41.10	71.90	72.58
39.00	26.60	26.16

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94969.D
Acq On : 4 Nov 2022 3:50 pm
Operator : courtnef
Sample : ICV3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Nov 04 16:46:05 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P94969.D\data.ms

(76) 1-Chlorohexane

5.649min (-0.002) 27.87ug/L

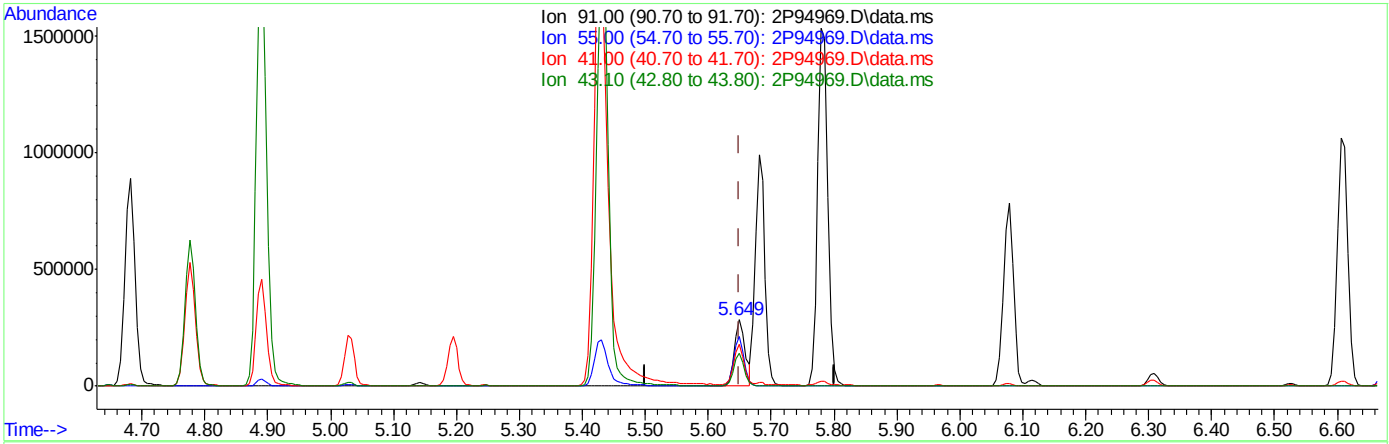
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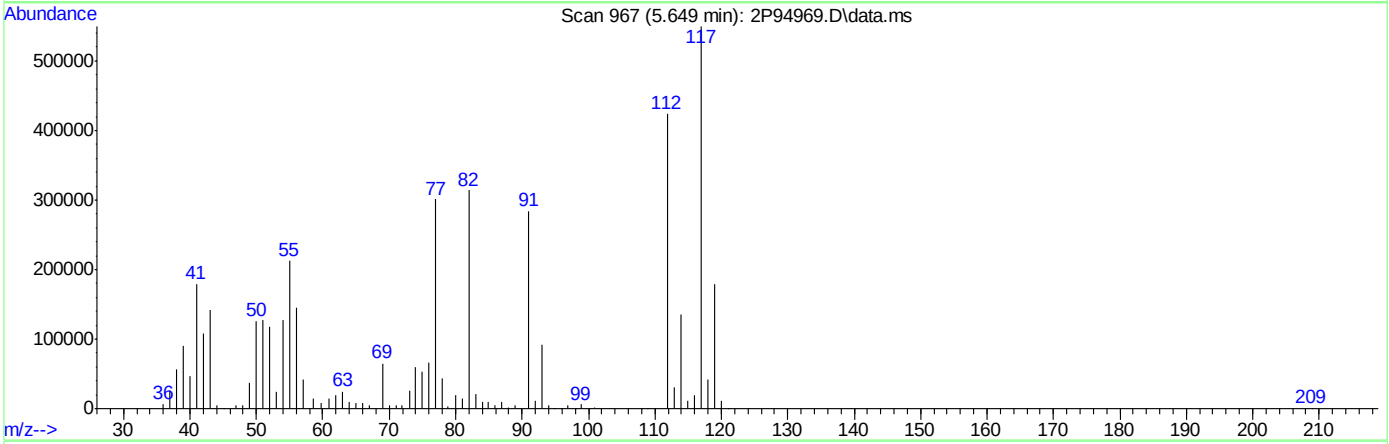
Ion	Exp%	Act%
91.00	100	100
55.00	73.60	73.47
41.00	60.90	60.01
43.10	49.80	48.86

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94969.D
Acq On : 4 Nov 2022 3:50 pm
Operator : courtnef
Sample : ICV3622-5
Misc : MS52512,V2P3622,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Nov 04 16:46:05 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P94969.D\data.ms

(76) 1-Chlorohexane

5.649min (-0.002) 40.70ug/L m

response 328766

Ion	Exp%	Act%
91.00	100	100
55.00	73.60	74.87
41.00	60.90	63.04
43.10	49.80	50.21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94971.D
Acq On : 4 Nov 2022 4:21 pm
Operator : courtnef
Sample : ICV3622-4
Misc : MS52512,V2P3622,,,,,
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Nov 04 16:48:03 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

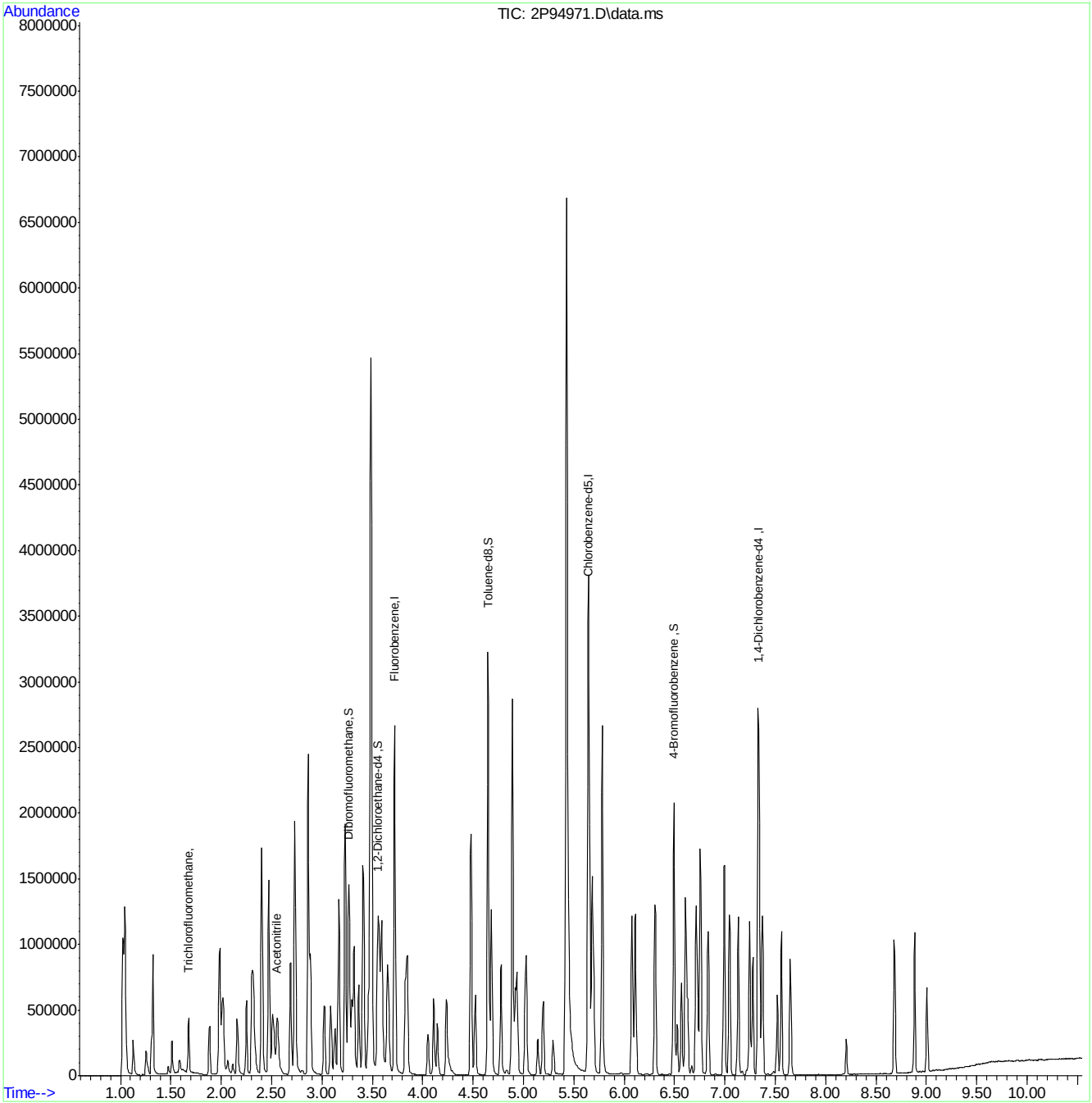
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.722	96	1417367	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	980177	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.331	152	431280	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.267	113	304529	51.42	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.84%			
49) 1,2-Dichloroethane-d4	3.554	65	447701	52.54	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.08%			
63) Toluene-d8	4.647	98	1387227	49.77	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.54%			
86) 4-Bromofluorobenzene	6.494	174	329162	49.80	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.60%			
Target Compounds						Qvalue
8) Trichlorofluoromethane	1.677	101	195176	26.24	ug/L	98
25) Acetonitrile	2.555	41	297029	210.35	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-11-04\
Data File : 2P94971.D
Acq On : 4 Nov 2022 4:21 pm
Operator : courtnef
Sample : ICV3622-4
Misc : MS52512,V2P3622,,,,,
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Nov 04 16:48:03 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/14/22 01:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96225.D
Acq On : 12 Dec 2022 10:18 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3657,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 12 10:38:49 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.716	96	1018103	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	721118	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	332246	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.261	113	223308	52.49	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.98%			
49) 1,2-Dichloroethane-d4	3.549	65	312422	51.04	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.08%			
63) Toluene-d8	4.647	98	993164	48.44	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.88%			
86) 4-Bromofluorobenzene	6.494	174	266442	52.32	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.64%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.122	85	199117	51.38	ug/L	98
3) Chloromethane	1.248	50	192135	44.10	ug/L	99
4) 1,3-butadiene	1.316	39	152939	33.67	ug/L	99
5) Vinyl Chloride	1.305	62	179105	37.70	ug/L	100
6) Bromomethane	1.509	94	48524	21.88	ug/L	93
7) Chloroethane	1.582	64	63723	46.64	ug/L	97
8) Trichlorofluoromethane	1.671	101	179227	33.55	ug/L	97
9) Ethyl Ether	1.881	59	155013	38.72	ug/L	99
10) Ethanol	1.975	45	97967	790.45	ug/L	99
11) 1,2-Dichlorotrifluoroe...	1.975	67	188433	41.01	ug/L	96
12) 1,1-Dichloroethene	1.980	61	240771	42.74	ug/L	97
13) Freon 113	2.011	101	151015	44.41	ug/L	94
14) Carbon Disulfide	2.001	76	433635	40.92	ug/L	96
15) Iodomethane	2.058	142	92873	35.81	ug/L	94
16) Acrolein	2.153	56	256383	206.48	ug/L	99
17) Allyl chloride	2.247	41	245897	47.72	ug/L	95
18) Methylene Chloride	2.299	49	216125	35.04	ug/L	98
19) Acetone	2.315	43	499738	183.57	ug/L	97
20) Methyl acetate	2.393	43	1135821	192.15	ug/L	98
21) trans-1,2-Dichloroethene	2.398	61	234435	41.77	ug/L	97
22) Hexane	2.466	56	130159	41.16	ug/L	99
23) Methyl Tert Butyl Ether	2.472	73	552553	41.69	ug/L	98
24) Tert Butyl Alcohol	2.508	59	553397	399.78	ug/L	97
25) Acetonitrile	2.550	41	396505	369.22	ug/L	97
26) Di-isopropyl ether	2.686	45	554130	40.58	ug/L	97
27) Chloroprene	2.728	53	778988	38.57	ug/L	97
28) 1,1-Dichloroethane	2.728	63	303198	41.49	ug/L	97
29) Acrylonitrile	2.728	52	516087	194.19	ug/L	96
30) ETBE	2.880	59	545094	40.83	ug/L	99
31) Vinyl acetate	2.859	43	2032756	193.31	ug/L	99
32) cis-1,2-Dichloroethene	3.021	96	170532	42.01	ug/L	97
33) 2,2-Dichloropropane	3.084	77	263346	43.84	ug/L	99
34) Bromochloromethane	3.125	128	73317	44.14	ug/L	97
35) Cyclohexane	3.162	56	277541	42.14	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96225.D
Acq On : 12 Dec 2022 10:18 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3657,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 12 10:38:49 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36)	Chloroform	3.167	83	302377	42.10	ug/L		100
37)	Ethyl acetate	3.225	43	1445499	194.93	ug/L		99
38)	Tetrahydrofuran	3.256	42	116112	39.91	ug/L		95
40)	Carbon Tetrachloride	3.267	117	206530m	46.08	ug/L		
41)	1,1,1-Trichloroethane	3.293	97	262619	44.14	ug/L		98
42)	2-Butanone	3.314	43	834921	186.12	ug/L		99
43)	1,1-Dichloropropene	3.361	75	234497	42.79	ug/L		95
44)	tert-Butyl formate	3.408	59	687237	206.53	ug/L		96
45)	Propionitrile	3.460	54	527299	436.63	ug/L		98
46)	Methacrylonitrile	3.481	41	1674027	398.96	ug/L		99
47)	Benzene	3.491	78	685946	39.32	ug/L		99
48)	TAME	3.565	73	525940	41.67	ug/L		96
50)	Isobutyl alcohol	3.591	43	586318m	768.65	ug/L		
51)	1,2-Dichloroethane	3.586	62	236685	39.89	ug/L		98
52)	Tert Amyl Alcohol	3.648	59	464918	421.22	ug/L		99
53)	Trichloroethene	3.821	95	170398	40.54	ug/L		98
54)	Methylcyclohexane	3.842	83	259567	44.23	ug/L		99
55)	Dibromomethane	4.046	93	101653	43.11	ug/L		93
56)	1,2-Dichloropropane	4.103	63	180173	42.87	ug/L		95
57)	Bromodichloromethane	4.140	83	213989	47.04	ug/L		99
58)	Methyl methacrylate	4.234	41	204353	41.21	ug/L		96
59)	1,4-Dioxane	4.260	88	86870	828.06	ug/L		97
60)	2-Chloroethyl vinyl ether	4.475	63	467066	163.10	ug/L		97
61)	cis-1,3-Dichloropropene	4.517	75	279926	43.80	ug/L		94
64)	Toluene	4.679	91	745233	40.00	ug/L		100
65)	2-Nitropropane	4.773	41	398080	198.39	ug/L		97
66)	4-Methyl-2-pentanone	4.888	43	1450229	181.52	ug/L		99
67)	trans-1,3-Dichloropropene	4.914	75	254531	45.80	ug/L		98
68)	Tetrachloroethene	4.935	166	164463	44.61	ug/L		95
69)	Ethyl methacrylate	5.029	69	273964	42.99	ug/L		86
70)	1,1,2-Trichloroethane	5.013	83	134417	40.98	ug/L		98
71)	Dibromochloromethane	5.139	129	152353	45.56	ug/L		98
72)	1,3-Dichloropropane	5.191	76	294751	41.08	ug/L		95
73)	1,2-Dibromoethane	5.291	107	158176	42.00	ug/L		98
74)	3,3-dimethyl-1-butanol	5.427	57	2154260	1760.17	ug/L		99
75)	2-hexanone	5.427	43	1503450	176.09	ug/L		95
76)	1-Chlorohexane	5.646	91	239801m	40.90	ug/L		
77)	Ethylbenzene	5.678	91	806093	40.01	ug/L		99
78)	Chlorobenzene	5.652	112	430689	39.88	ug/L		99
79)	1,1,1,2-Tetrachloroethane	5.693	131	152962	46.56	ug/L		92
80)	m,p-Xylene	5.777	91	1280421	81.04	ug/L		99
81)	o-Xylene	6.075	91	636891	40.86	ug/L		98
82)	Styrene	6.107	104	486951	43.53	ug/L		99
83)	Bromoform	6.112	173	99226	53.37	ug/L		98
84)	Isopropylbenzene	6.305	105	723652	40.74	ug/L		99
87)	cis-1,4-Dichloro-2-butene	6.525	53	87293	43.53	ug/L	#	79
88)	n-Propylbenzene	6.603	91	882104	38.02	ug/L		100
89)	Bromobenzene	6.567	156	171909	41.24	ug/L		97
90)	1,1,2,2-Tetrachloroethane	6.624	83	253602	39.10	ug/L		98
91)	1,3,5-Trimethylbenzene	6.755	105	608778	39.45	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96225.D
Acq On : 12 Dec 2022 10:18 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3657,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 12 10:38:49 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

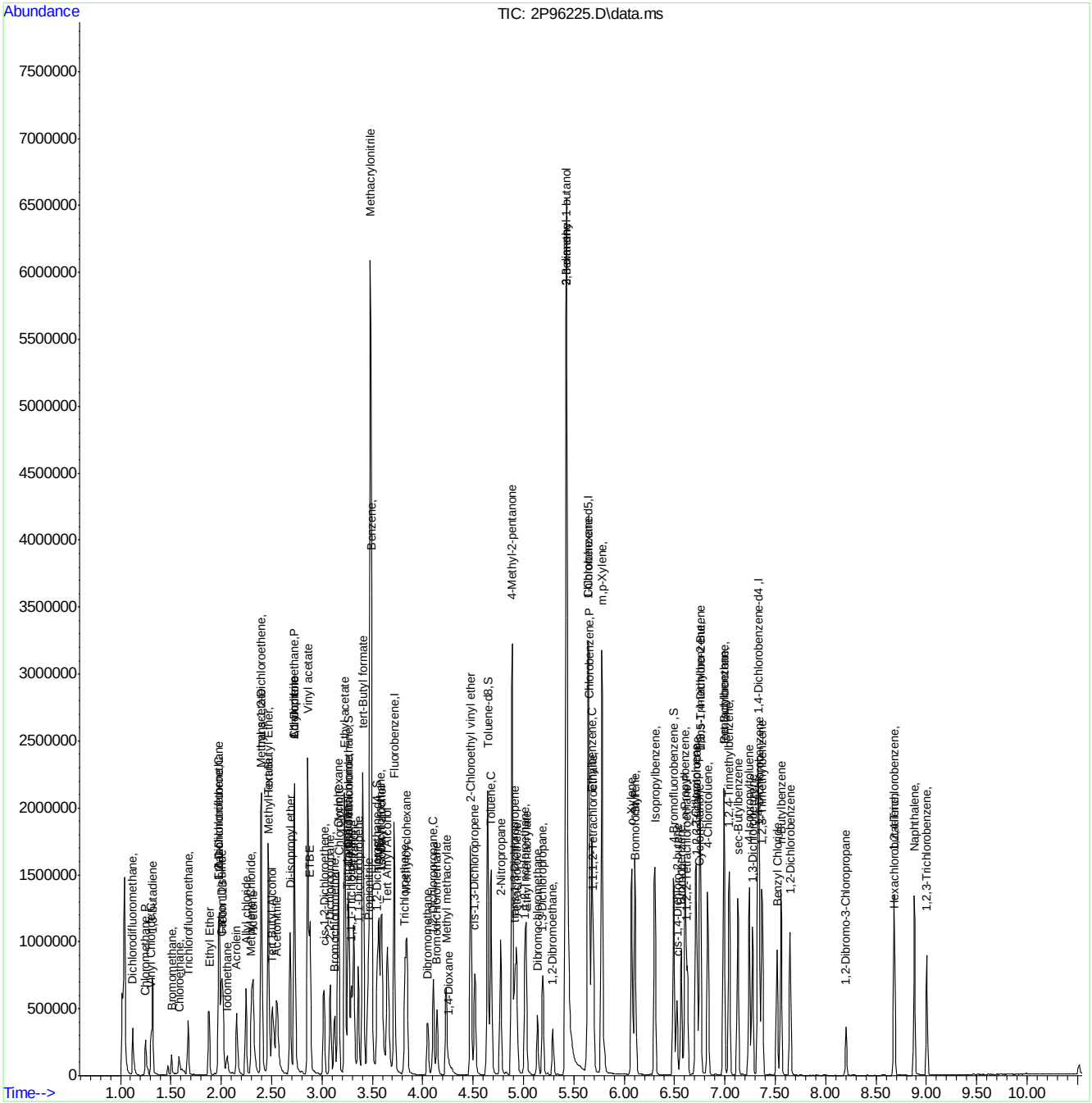
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.708	91	534887	38.47	ug/L		100
93)	trans-1,4-Dichloro-2-B...	6.755	53	95237	40.36	ug/L		92
94)	1,2,3-Trichloropropane	6.718	110	87916	38.61	ug/L		97
95)	Cyclohexanone	6.745	55	75291	166.57	ug/L		94
96)	4-Chlorotoluene	6.828	91	568618	39.27	ug/L		100
97)	tert-Butylbenzene	6.990	91	339836	38.56	ug/L		98
99)	1,2,4-Trimethylbenzene	7.043	105	590193	39.76	ug/L		99
100)	Pentachloroethane	6.990	167	94388	48.63	ug/L	#	72
101)	sec-Butylbenzene	7.126	105	664117	39.19	ug/L		99
102)	4-Isopropyltoluene	7.241	119	572788	40.07	ug/L		99
103)	1,3-Dichlorobenzene	7.273	146	315928	41.49	ug/L		98
104)	1,2,3-Trimethylbenzene	7.367	105	587956	39.75	ug/L		100
105)	1,4-Dichlorobenzene	7.341	146	323745	40.54	ug/L		98
106)	n-Butylbenzene	7.555	92	290414	39.34	ug/L		95
107)	Benzyl Chloride	7.519	126	93447	45.85	ug/L		94
108)	1,2-Dichlorobenzene	7.649	146	295269	41.01	ug/L		94
109)	1,2-Dibromo-3-Chloropr...	8.199	75	62158	43.44	ug/L		93
110)	Hexachlorobutadiene	8.685	225	63615	49.85	ug/L		79
111)	1,2,4-Trichlorobenzene	8.680	180	162376	43.11	ug/L		98
112)	Naphthalene	8.879	128	621143	39.80	ug/L		99
113)	1,2,3-Trichlorobenzene	9.004	180	155435	44.17	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96225.D
Acq On : 12 Dec 2022 10:18 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3657,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 12 10:38:49 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



Manual Integration Approval Summary

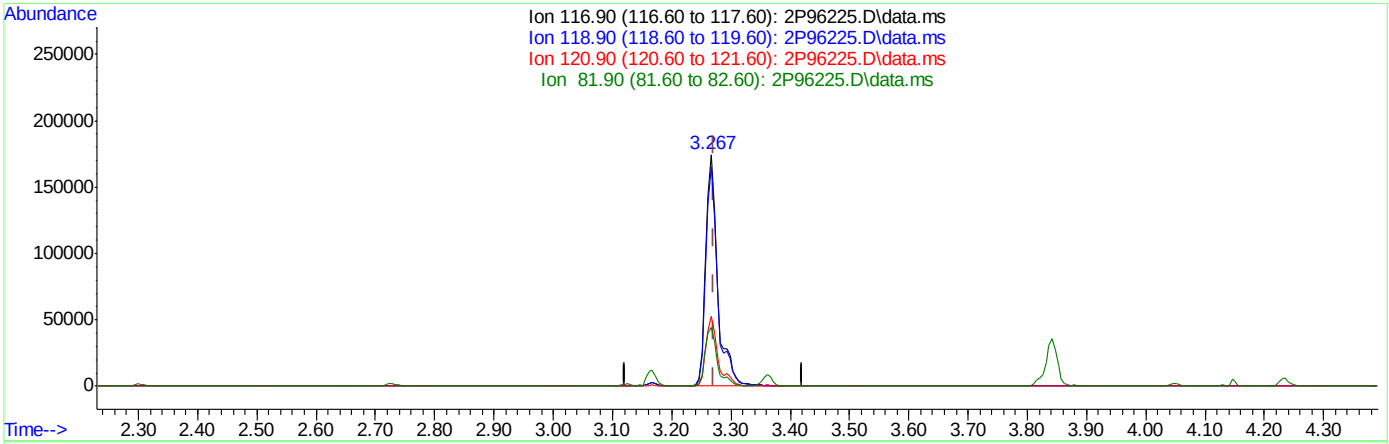
Sample Number: V2P3657-CC3622
Lab FileID: 2P96225.D
Injection Time: 12/12/22 10:18
Method: SW846 8260D
Analyst approved: 12/12/22 10:48 Courtney Failla
Supervisor approved: 12/14/22 01:20 Jennifer Fereira

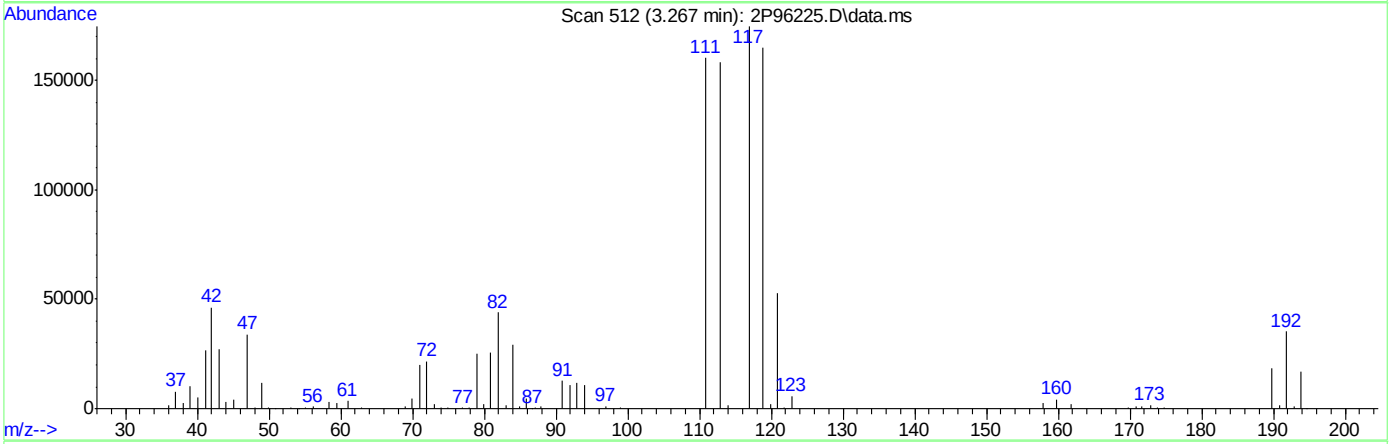
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96225.D
Acq On : 12 Dec 2022 10:18 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3657,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 12 10:37:57 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96225.D\data.ms

(40) Carbon Tetrachloride ( )

3.267min (-0.005) 54.17ug/L

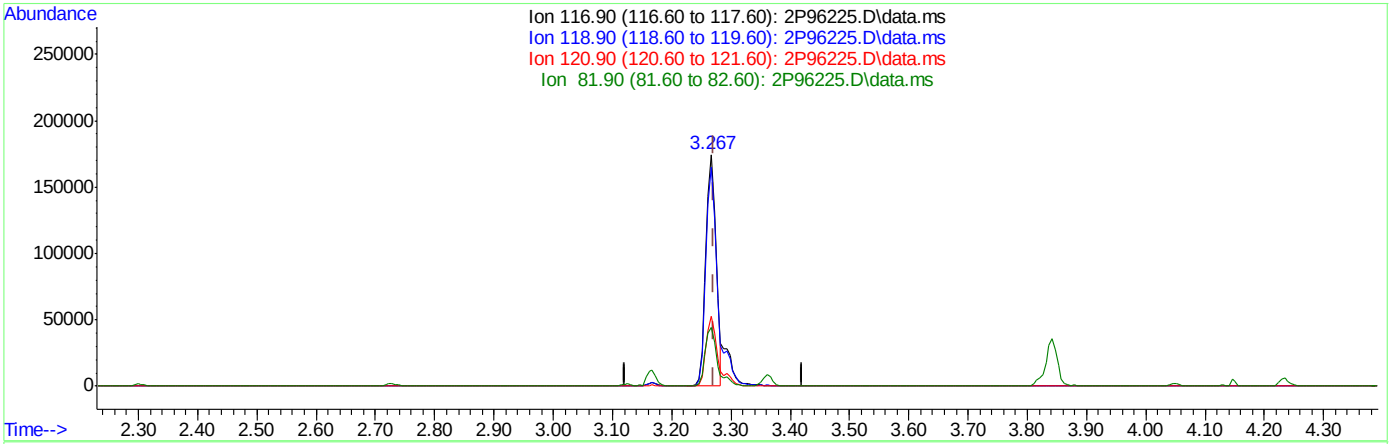
response 242753

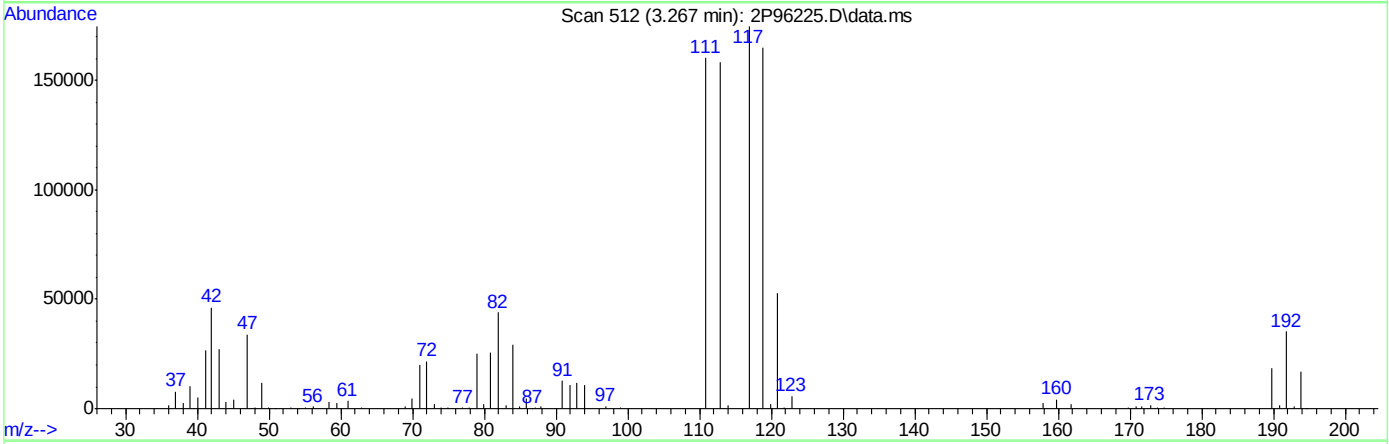
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	94.39
120.90	30.80	30.07
81.90	27.00	25.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96225.D
Acq On : 12 Dec 2022 10:18 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3657,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 12 10:37:57 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96225.D\data.ms

(40) Carbon Tetrachloride ( )

3.267min (-0.005) 46.08ug/L m

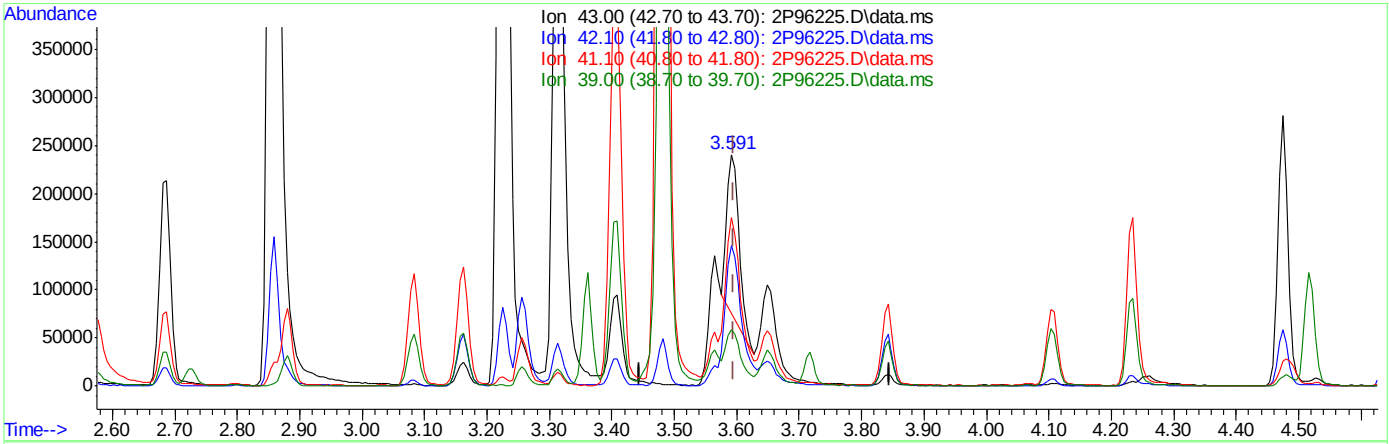
response 206530

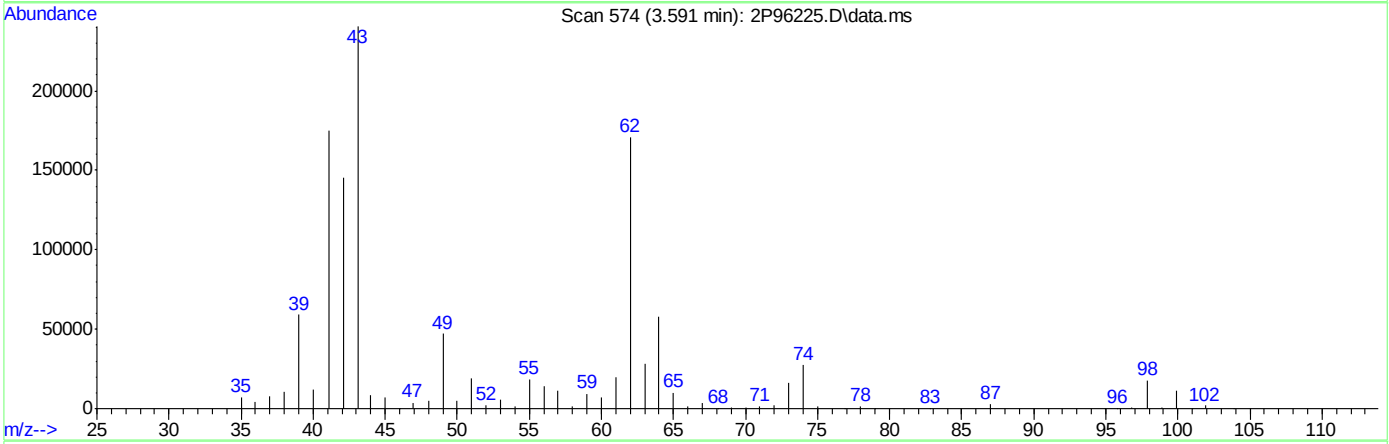
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	94.39
120.90	30.80	30.07
81.90	27.00	25.19

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96225.D
Acq On : 12 Dec 2022 10:18 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3657,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 12 10:37:57 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96225.D\data.ms

(50) Isobutyl alcohol

3.591min (-0.005) 289.25ug/L

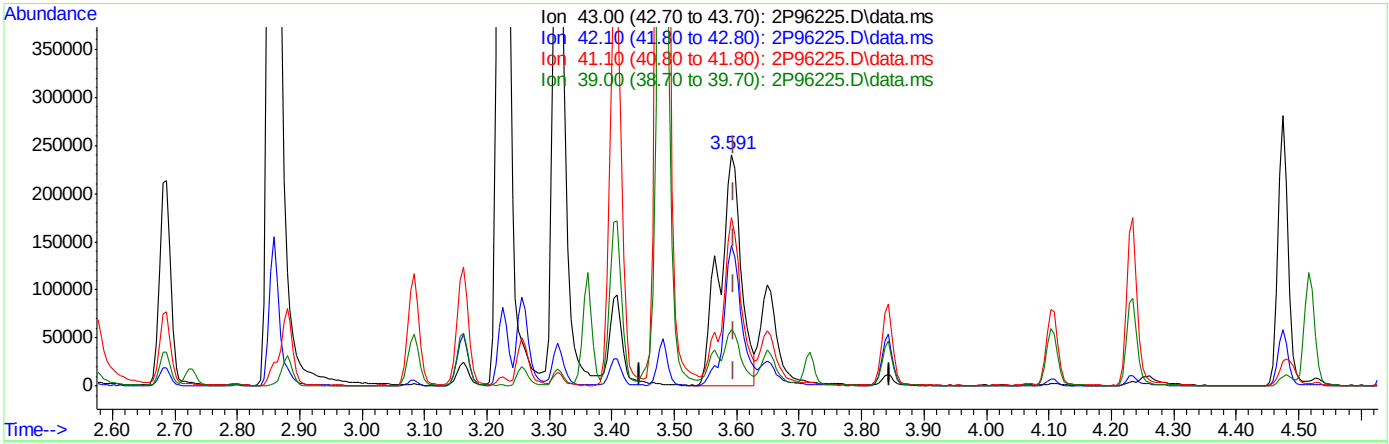
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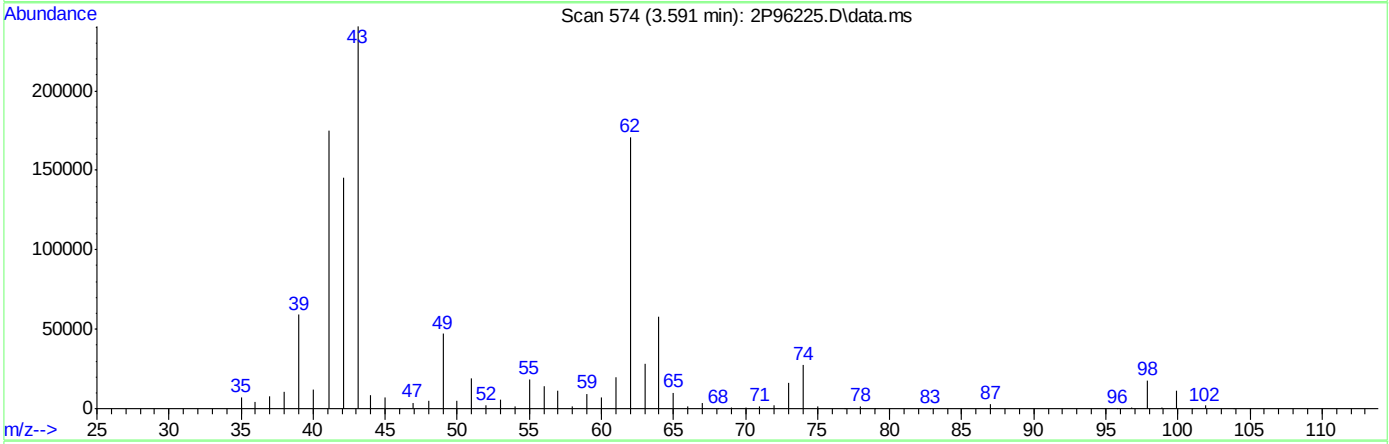
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	60.26
41.10	71.90	71.98
39.00	26.60	23.78

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96225.D
Acq On : 12 Dec 2022 10:18 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3657,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 12 10:37:57 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96225.D\data.ms

(50) Isobutyl alcohol

3.591min (-0.005) 768.65ug/L m

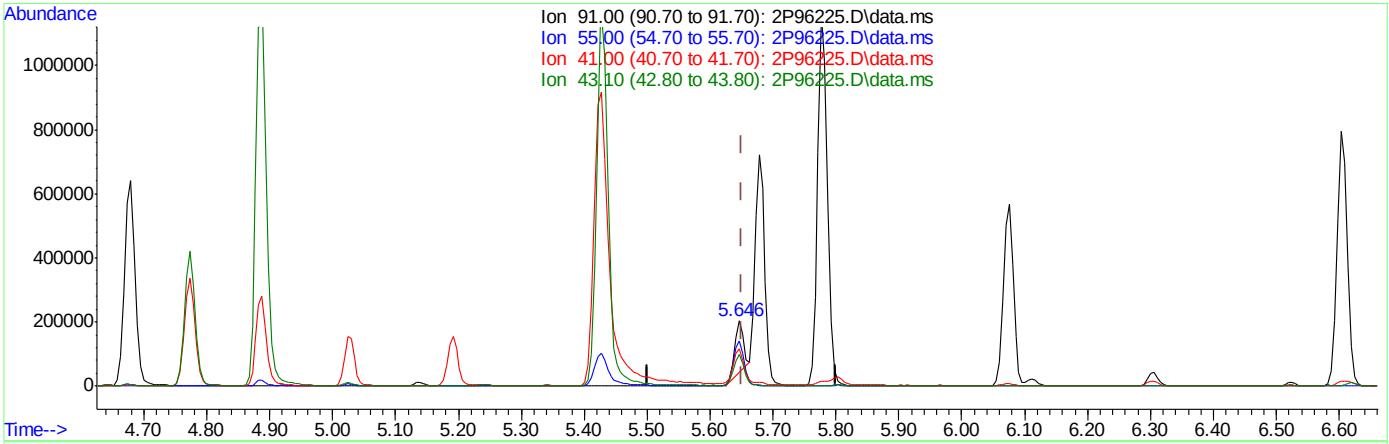
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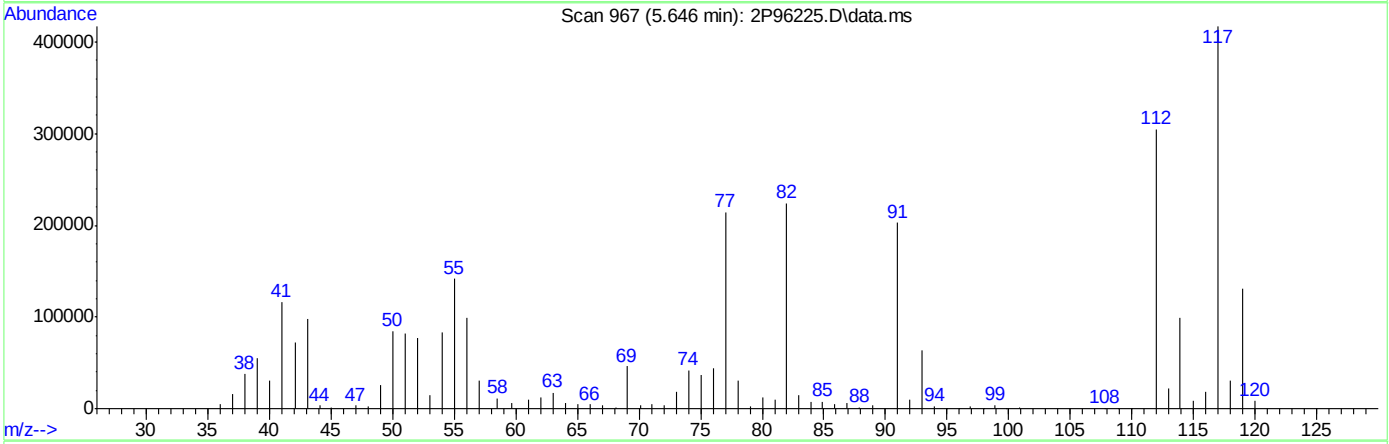
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	60.53
41.10	71.90	72.69
39.00	26.60	24.53

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96225.D
Acq On : 12 Dec 2022 10:18 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3657,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 12 10:37:57 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96225.D\data.ms

(76) 1-Chlorohexane

5.646min (-0.005) 26.35ug/L

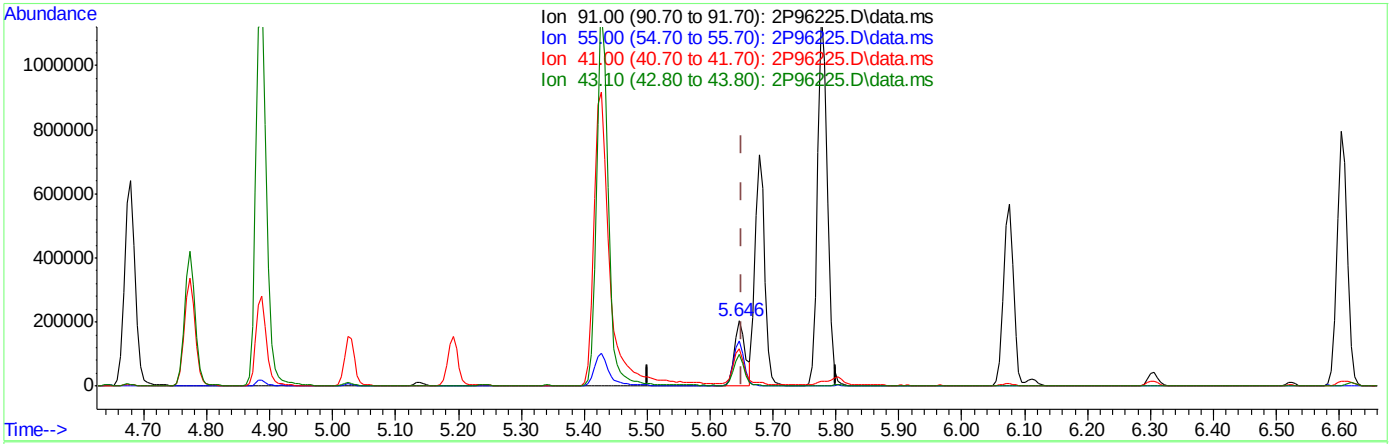
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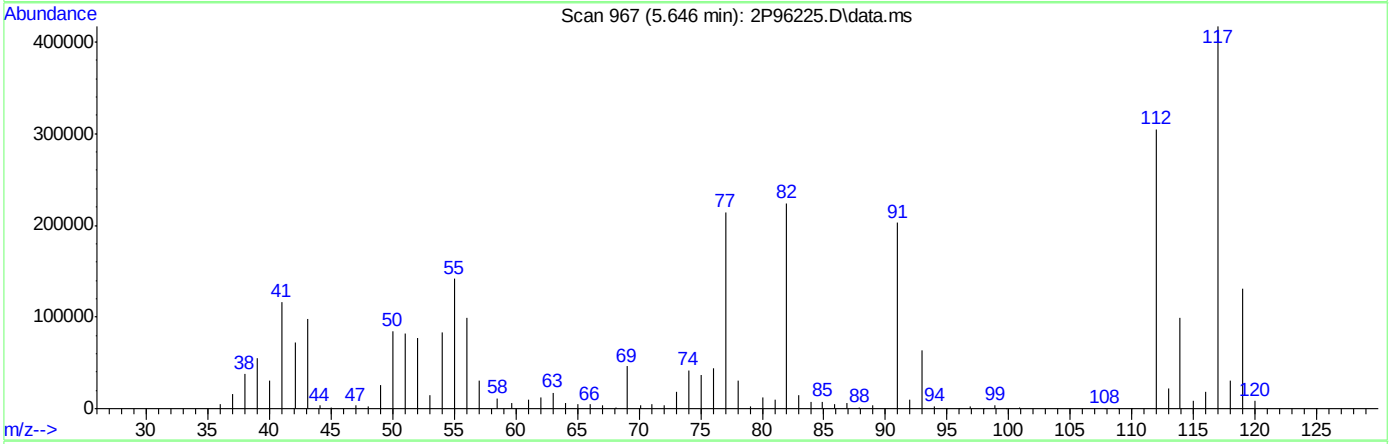
Ion	Exp%	Act%
91.00	100	100
55.00	73.60	67.73
41.00	60.90	53.15
43.10	49.80	46.93

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-12\
Data File : 2P96225.D
Acq On : 12 Dec 2022 10:18 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3657,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 12 10:37:57 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96225.D\data.ms

(76) 1-Chlorohexane

5.646min (-0.005) 40.90ug/L m

response 239801

Ion	Exp%	Act%
91.00	100	100
55.00	73.60	69.96
41.00	60.90	57.54
43.10	49.80	48.57

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira
12/14/22 01:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96269.D
Acq On : 12 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:21:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.721	96	995270	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.640	117	706898	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	298814	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.266	113	214603	51.60	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.20%			
49) 1,2-Dichloroethane-d4	3.548	65	302658	50.58	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.16%			
63) Toluene-d8	4.646	98	991727	49.34	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.68%			
86) 4-Bromofluorobenzene	6.493	174	253964	55.45	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 110.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.127	85	192568	50.83	ug/L	100
3) Chloromethane	1.252	50	184685	43.36	ug/L	99
4) 1,3-butadiene	1.320	39	168681	37.99	ug/L	96
5) Vinyl Chloride	1.310	62	181371	39.05	ug/L	100
6) Bromomethane	1.514	94	40642	18.75	ug/L	94
7) Chloroethane	1.587	64	64465	48.35	ug/L	97
8) Trichlorofluoromethane	1.676	101	171231	32.79	ug/L	97
9) Ethyl Ether	1.880	59	129287	33.03	ug/L	98
10) Ethanol	1.979	45	92150	755.49	ug/L	100
11) 1,2-Dichlorotrifluoroe...	1.979	67	173768	38.69	ug/L	95
12) 1,1-Dichloroethene	1.984	61	224116	40.70	ug/L	98
13) Freon 113	2.016	101	132430	39.84	ug/L	94
14) Carbon Disulfide	2.005	76	396537	38.28	ug/L	94
15) Iodomethane	2.063	142	101406	39.69	ug/L	95
16) Acrolein	2.157	56	212798	175.31	ug/L	98
17) Allyl chloride	2.246	41	212644	42.24	ug/L	97
18) Methylene Chloride	2.303	49	191711	31.80	ug/L	97
19) Acetone	2.319	43	449037	167.92	ug/L	98
20) Methyl acetate	2.398	43	1007642	174.37	ug/L	97
21) trans-1,2-Dichloroethene	2.403	61	217759	39.69	ug/L	97
22) Hexane	2.471	56	103825	33.98	ug/L	98
23) Methyl Tert Butyl Ether	2.471	73	520631	40.18	ug/L	98
24) Tert Butyl Alcohol	2.513	59	543371	401.54	ug/L	97
25) Acetonitrile	2.554	41	456268m	426.15	ug/L	
26) Di-isopropyl ether	2.685	45	500152	37.47	ug/L	99
27) Chloroprene	2.727	53	703967	35.65	ug/L	98
28) 1,1-Dichloroethane	2.732	63	282458	39.53	ug/L	99
29) Acrylonitrile	2.727	52	456802	175.83	ug/L	97
30) ETBE	2.884	59	513322	39.34	ug/L	98
31) Vinyl acetate	2.863	43	1740477	169.45	ug/L	99
32) cis-1,2-Dichloroethene	3.020	96	163388	41.17	ug/L	95
33) 2,2-Dichloropropane	3.083	77	229132	39.02	ug/L	97
34) Bromochloromethane	3.125	128	71784	44.21	ug/L	92
35) Cyclohexane	3.161	56	260583	40.47	ug/L	99
36) Chloroform	3.166	83	295049	42.02	ug/L	100
37) Ethyl acetate	3.229	43	1345936	185.67	ug/L	98
38) Tetrahydrofuran	3.261	42	107306	37.73	ug/L	94
40) Carbon Tetrachloride	3.271	117	209549m	47.83	ug/L	
41) 1,1,1-Trichloroethane	3.292	97	267688	46.02	ug/L	98
42) 2-Butanone	3.318	43	812127	185.19	ug/L	97
43) 1,1-Dichloropropene	3.365	75	227912	42.54	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96269.D
Acq On : 12 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:21:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl formate	3.407	59	687107	210.77	ug/L		94
45) Propionitrile	3.459	54	514702	435.97	ug/L		98
46) Methacrylonitrile	3.485	41	1576153	384.25	ug/L		98
47) Benzene	3.496	78	668241	39.18	ug/L		88
48) TAME	3.569	73	516645	41.88	ug/L		95
50) Isobutyl alcohol	3.595	43	450321m	603.91	ug/L		
51) 1,2-Dichloroethane	3.590	62	237363	40.92	ug/L		99
52) Tert Amyl Alcohol	3.653	59	472822	438.21	ug/L		96
53) Trichloroethene	3.825	95	170662	41.54	ug/L		93
54) Methylcyclohexane	3.841	83	247678	43.17	ug/L		99
55) Dibromomethane	4.050	93	99915	43.35	ug/L		88
56) 1,2-Dichloropropane	4.108	63	176275	42.90	ug/L		96
57) Bromodichloromethane	4.144	83	209813	47.18	ug/L		98
58) Methyl methacrylate	4.233	41	200637	41.39	ug/L		96
59) 1,4-Dioxane	4.259	88	92569	902.62	ug/L		98
60) 2-Chloroethyl vinyl ether	4.474	63	437260	156.19	ug/L		98
61) cis-1,3-Dichloropropene	4.521	75	273859	43.83	ug/L		92
64) Toluene	4.678	91	739200	40.48	ug/L		99
65) 2-Nitropropane	4.772	41	396043	201.10	ug/L		100
66) 4-Methyl-2-pentanone	4.887	43	1445482	184.57	ug/L		98
67) trans-1,3-Dichloropropene	4.918	75	241973	44.41	ug/L		81
68) Tetrachloroethene	4.934	166	171892	47.56	ug/L		98
69) Ethyl methacrylate	5.028	69	266841	42.73	ug/L		89
70) 1,1,2-Trichloroethane	5.018	83	131981	41.05	ug/L		90
71) Dibromochloromethane	5.138	129	149234	45.53	ug/L		99
72) 1,3-Dichloropropane	5.190	76	289154	41.11	ug/L		95
73) 1,2-Dibromoethane	5.290	107	156883	42.50	ug/L		98
74) 3,3-dimethyl-1-butanol	5.426	57	2178159	1814.01	ug/L		99
75) 2-hexanone	5.431	43	1458803	174.29	ug/L		98
76) 1-Chlorohexane	5.645	91	220963m	38.44	ug/L		
77) Ethylbenzene	5.682	91	807860	40.91	ug/L		99
78) Chlorobenzene	5.651	112	420242	39.69	ug/L		98
79) 1,1,1,2-Tetrachloroethane	5.693	131	149936	46.56	ug/L		91
80) m,p-Xylene	5.781	91	1258323	81.24	ug/L		99
81) o-Xylene	6.074	91	630537	41.27	ug/L		99
82) Styrene	6.106	104	473964	43.22	ug/L		98
83) Bromoform	6.116	173	90890	50.40	ug/L		96
84) Isopropylbenzene	6.304	105	684245	39.30	ug/L		100
87) cis-1,4-Dichloro-2-butene	6.524	53	53240	29.52	ug/L	#	82
88) n-Propylbenzene	6.608	91	794098	38.06	ug/L		97
89) Bromobenzene	6.566	156	157833	42.10	ug/L		95
90) 1,1,2,2-Tetrachloroethane	6.629	83	220109	37.73	ug/L		98
91) 1,3,5-Trimethylbenzene	6.754	105	544690	39.25	ug/L		99
92) 2-Chlorotoluene	6.707	91	483251	38.64	ug/L		99
93) trans-1,4-Dichloro-2-B...	6.754	53	66293	31.24	ug/L		97
94) 1,2,3-Trichloropropane	6.723	110	79344	38.74	ug/L		89
95) Cyclohexanone	6.744	55	68129	167.59	ug/L		95
96) 4-Chlorotoluene	6.833	91	508271	39.03	ug/L		98
97) tert-Butylbenzene	6.990	91	314775	39.71	ug/L		95
99) 1,2,4-Trimethylbenzene	7.042	105	534298	40.02	ug/L		99
100) Pentachloroethane	6.995	167	77478	44.73	ug/L	#	67
101) sec-Butylbenzene	7.131	105	588802	38.63	ug/L		98
102) 4-Isopropyltoluene	7.241	119	519913	40.44	ug/L		99
103) 1,3-Dichlorobenzene	7.272	146	276487	40.38	ug/L		98
104) 1,2,3-Trimethylbenzene	7.371	105	532438	40.02	ug/L		98
105) 1,4-Dichlorobenzene	7.340	146	282017	39.27	ug/L		99
106) n-Butylbenzene	7.554	92	251439	37.87	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96269.D
Acq On : 12 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:21:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

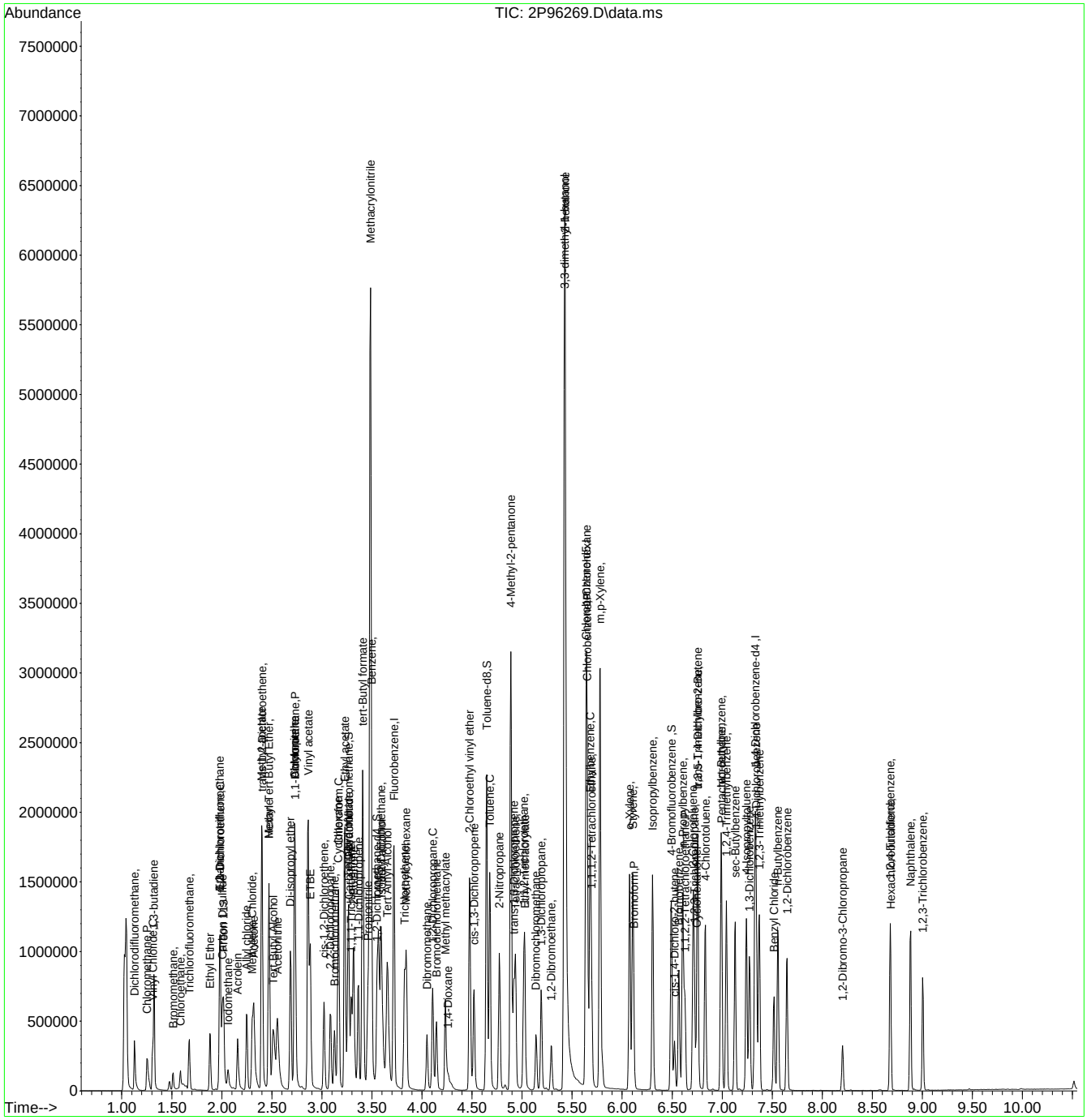
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
107) Benzyl Chloride	7.518	126	65925	37.13	ug/L	#	90
108) 1,2-Dichlorobenzene	7.649	146	265889	41.06	ug/L		95
109) 1,2-Dibromo-3-Chloropr...	8.203	75	58108	45.16	ug/L		82
110) Hexachlorobutadiene	8.684	225	58694	51.14	ug/L		85
111) 1,2,4-Trichlorobenzene	8.679	180	144785	42.74	ug/L		98
112) Naphthalene	8.883	128	560834	39.95	ug/L		100
113) 1,2,3-Trichlorobenzene	9.003	180	144462	45.64	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96269.D
Acq On : 12 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:21:52 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



Manual Integration Approval Summary

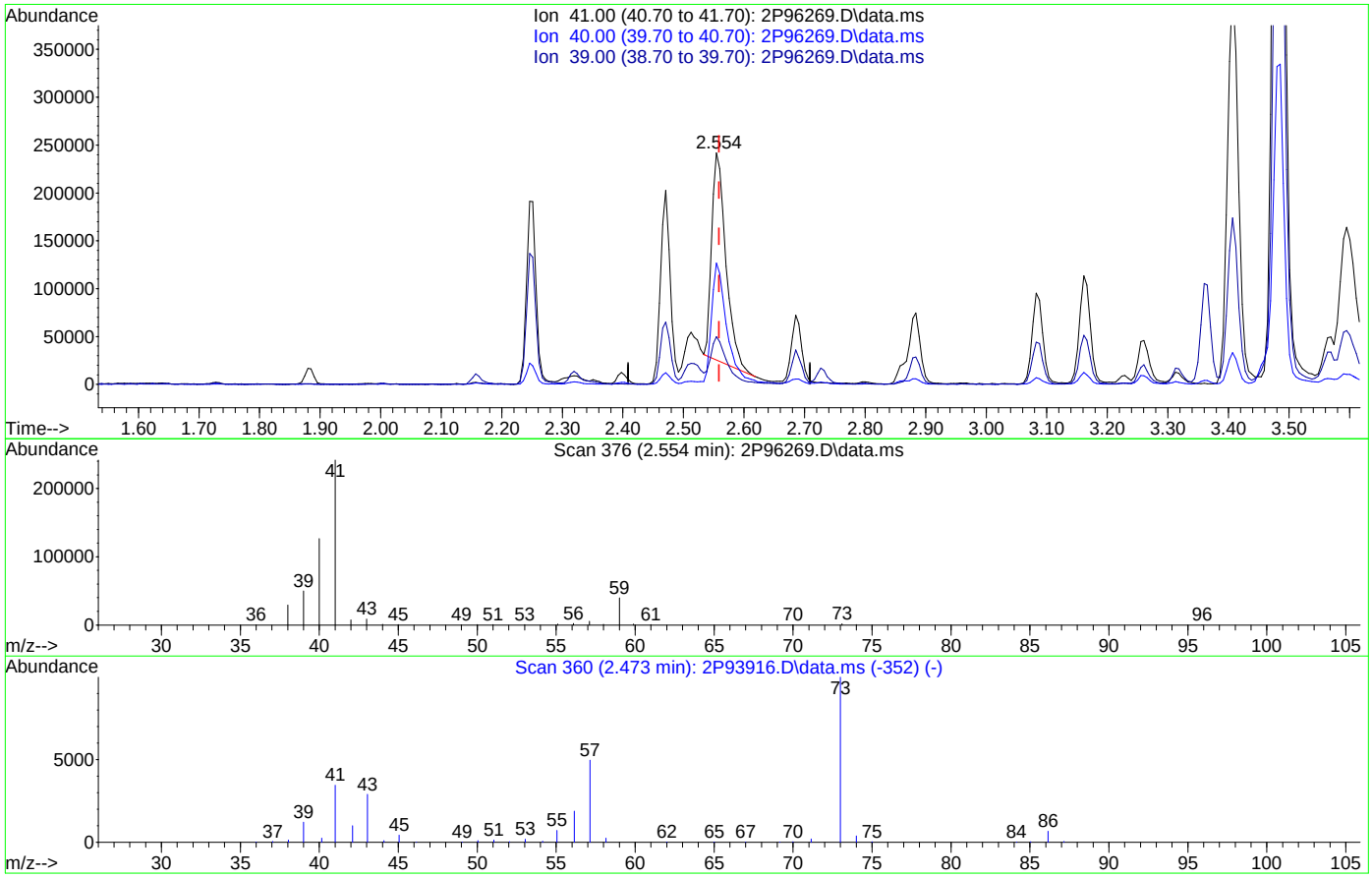
Sample Number: V2P3657-ECC3622 **Method:** SW846 8260D
Lab FileID: 2P96269.D **Analyst approved:** 12/13/22 01:19 Jennifer Fereira
Injection Time: 12/12/22 21:58 **Supervisor approved:** 12/14/22 01:20 Jennifer Fereira

Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.55	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.60	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96269.D
Acq On : 12 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:20:39 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



TIC: 2P96269.D\data.ms

(25) Acetonitrile

2.554min (-0.005) 336.07ug/L

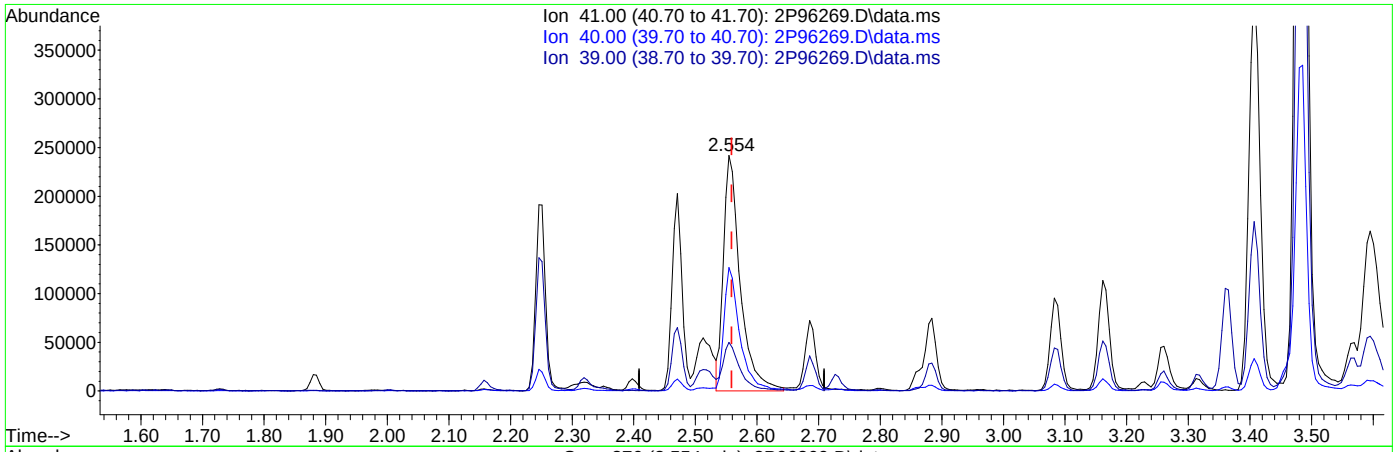
response 348721

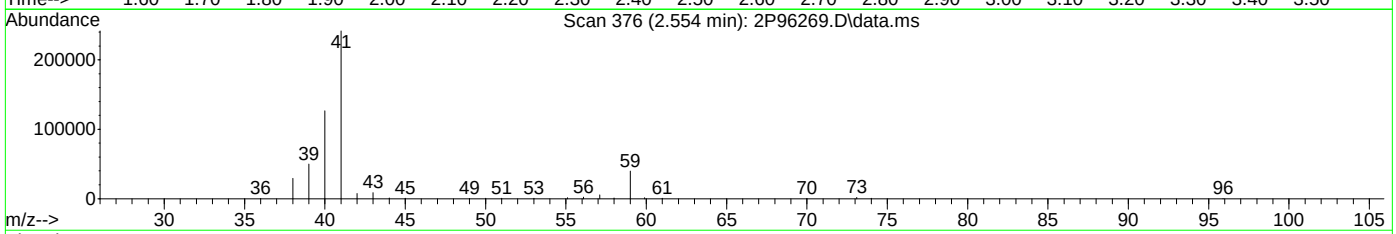
Ion	Exp%	Act%
41.00	100	100
40.00	53.90	52.94
39.00	19.60	20.37
0.00	0.00	0.00

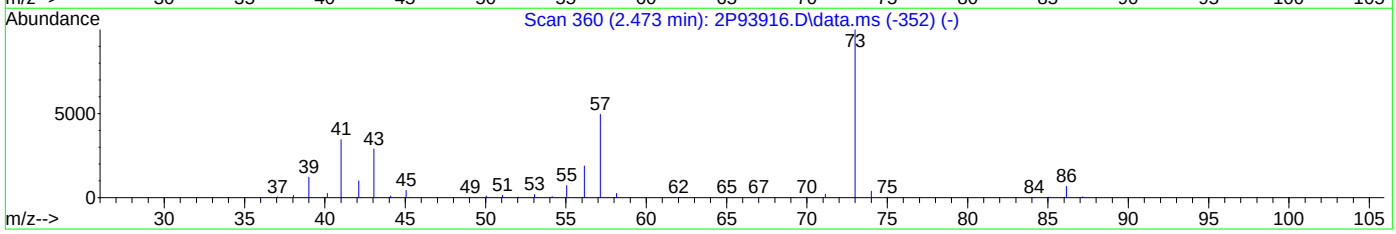
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96269.D
Acq On : 12 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:20:39 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration







TIC: 2P96269.D\data.ms

(25) Acetonitrile

2.554min (-0.005) 426.15ug/L m

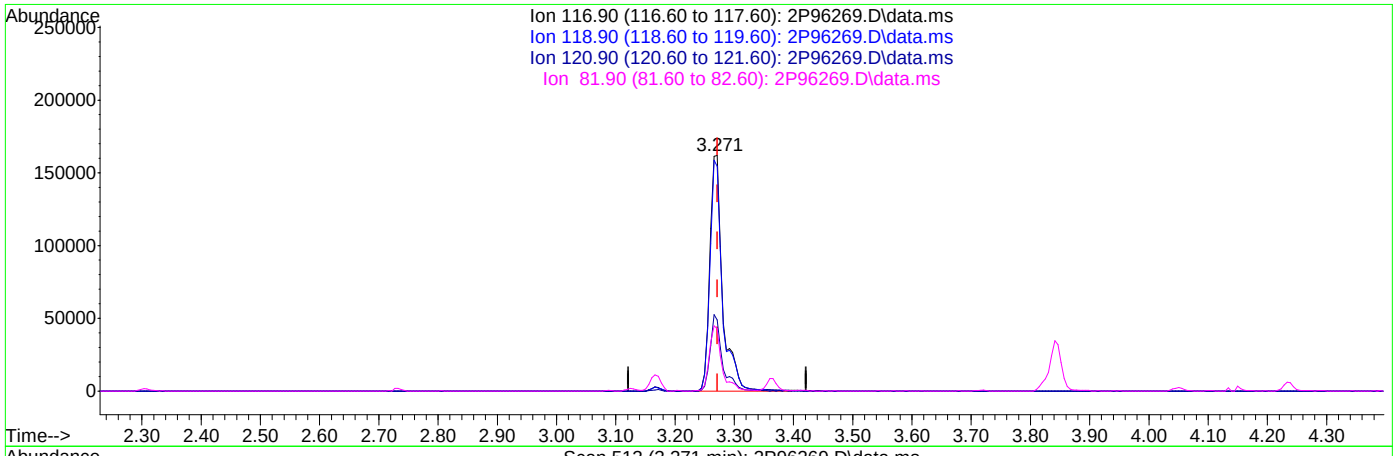
response 456268

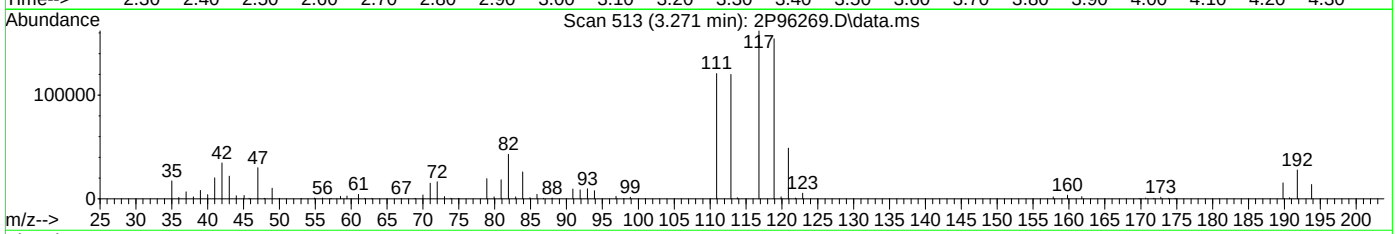
Ion	Exp%	Act%
41.00	100	100
40.00	53.90	52.34
39.00	19.60	20.61
0.00	0.00	0.00

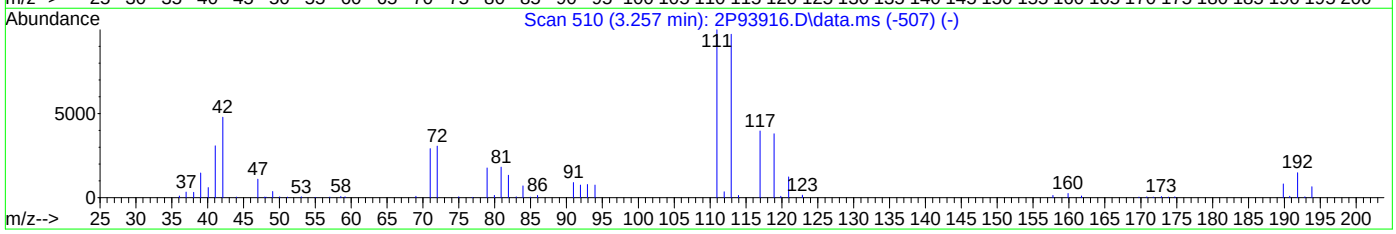
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96269.D
Acq On : 12 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:20:39 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration







TIC: 2P96269.D\data.ms

(40) Carbon Tetrachloride ( )

3.271min (-0.000) 55.19ug/L

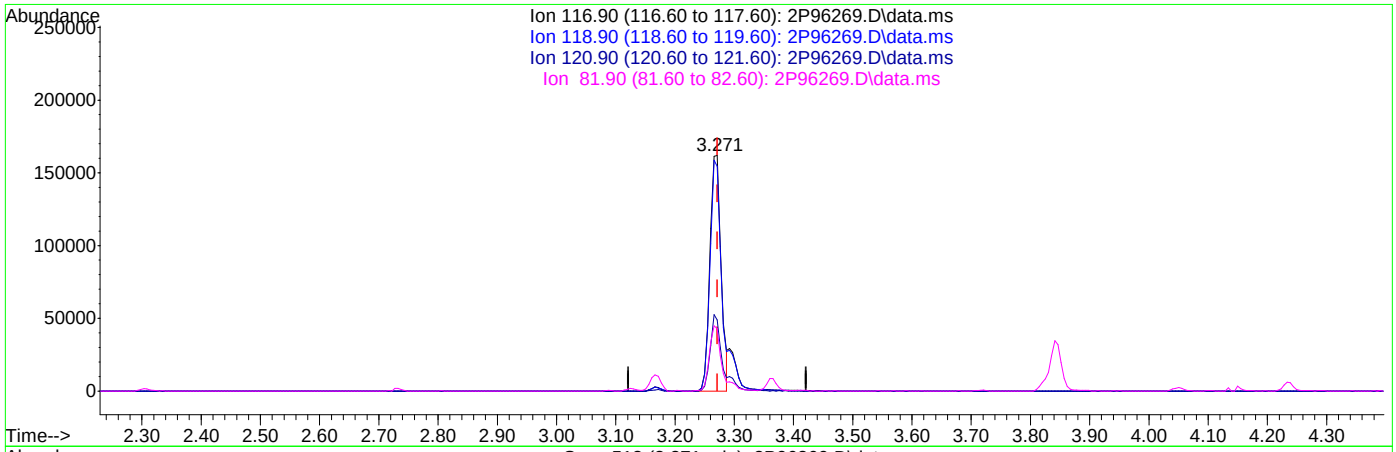
response 241791

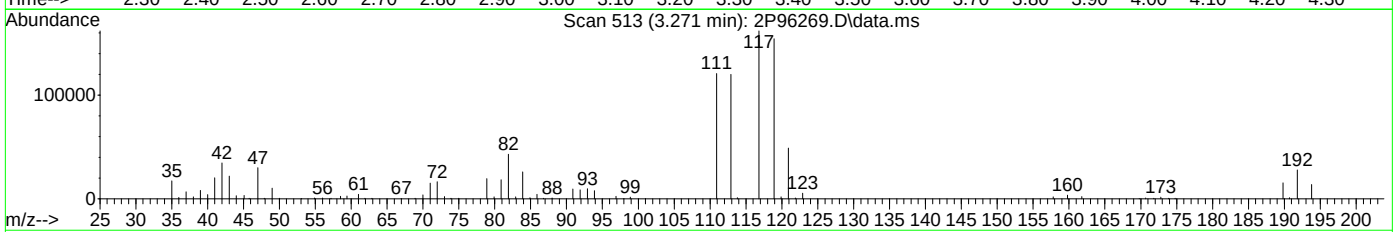
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	95.30
120.90	30.80	30.21
81.90	27.00	26.50

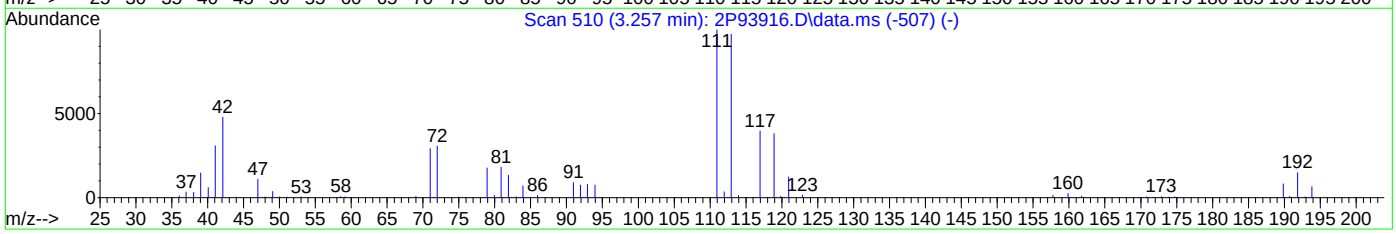
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96269.D
Acq On : 12 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:20:39 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration







TIC: 2P96269.D\data.ms

(40) Carbon Tetrachloride ( )

3.271min (-0.000) 47.83ug/L m

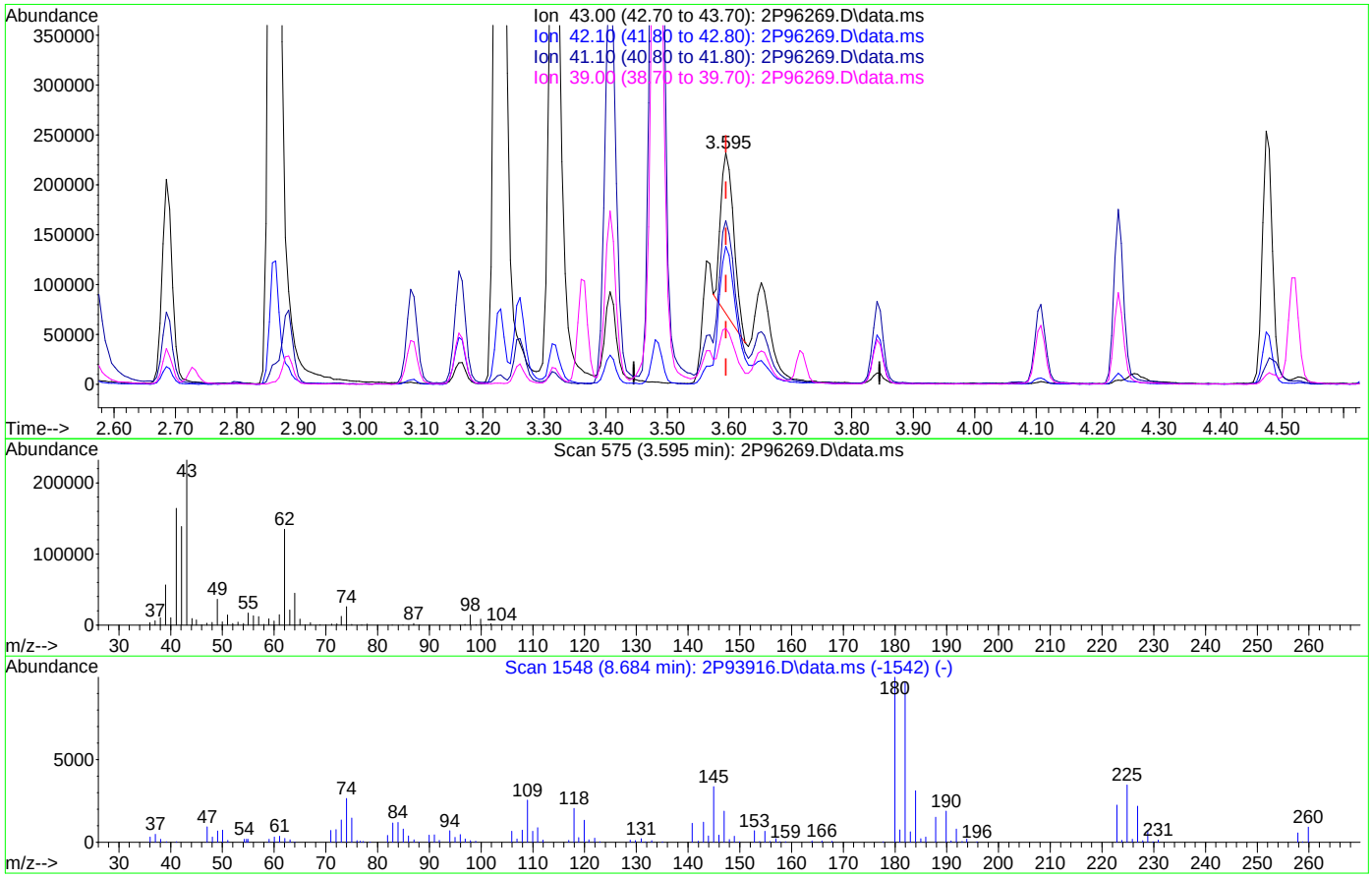
response 209549

Ion	Exp%	Act%
116.90	100	100
118.90	94.10	95.30
120.90	30.80	30.21
81.90	27.00	26.50

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96269.D
Acq On : 12 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:20:39 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



TIC: 2P96269.D\data.ms

(50) Isobutyl alcohol

3.595min (-0.000) 311.32ug/L

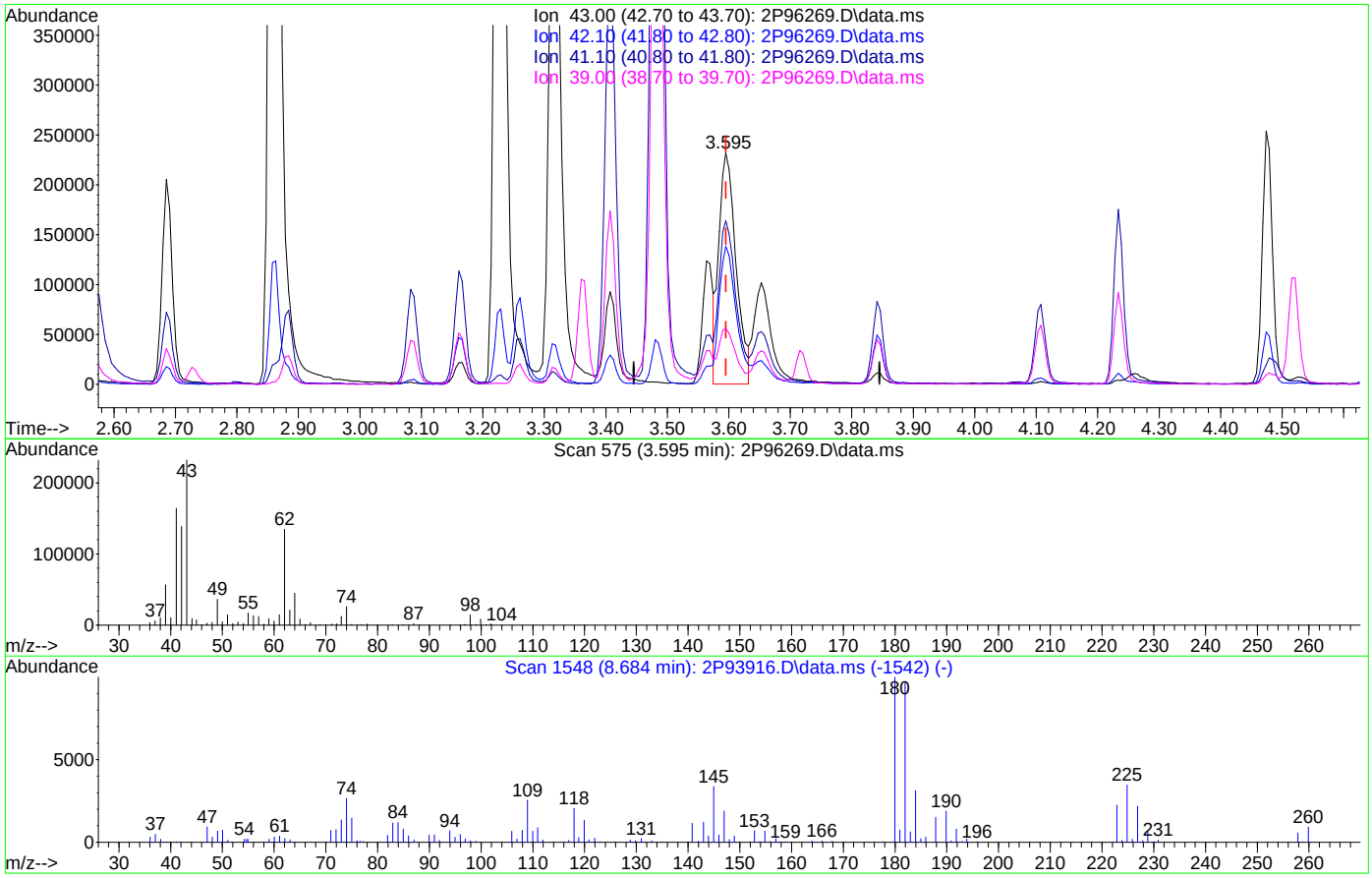
response 232142

Ion	Exp%	Act%
43.00	100	100
42.10	60.00	62.43
41.10	71.90	69.30
39.00	26.60	23.64

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96269.D
Acq On : 12 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:20:39 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



TIC: 2P96269.D\data.ms

(50) Isobutyl alcohol

3.595min (-0.000) 603.91ug/L m

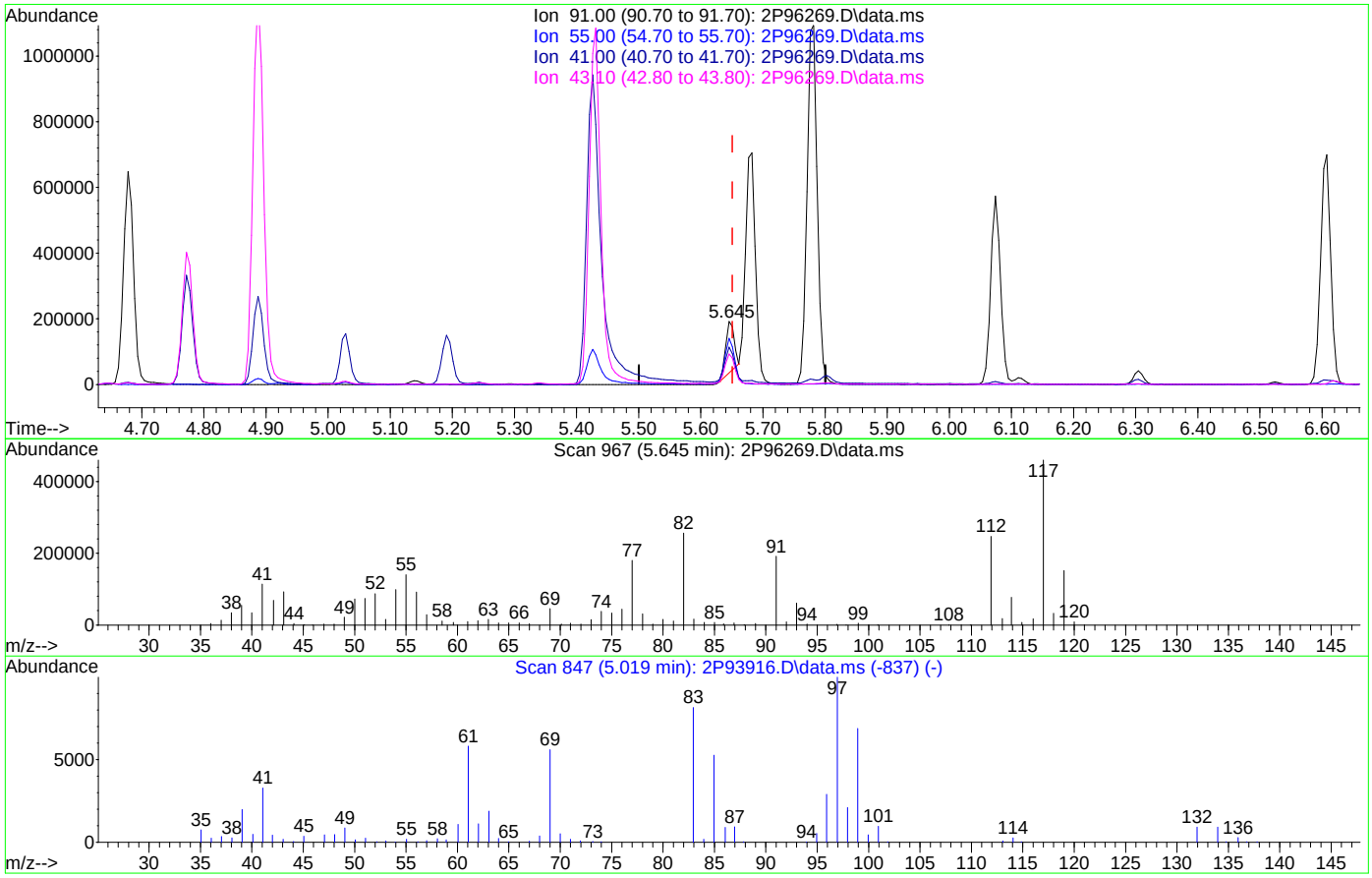
response 450321

Ion	Exp%	Act%
43.00	100	100
42.10	60.00	59.62
41.10	71.90	70.67
39.00	26.60	24.24

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96269.D
Acq On : 12 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:20:39 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



TIC: 2P96269.D\data.ms

(76) 1-Chlorohexane

5.645min (-0.005) 26.81ug/L

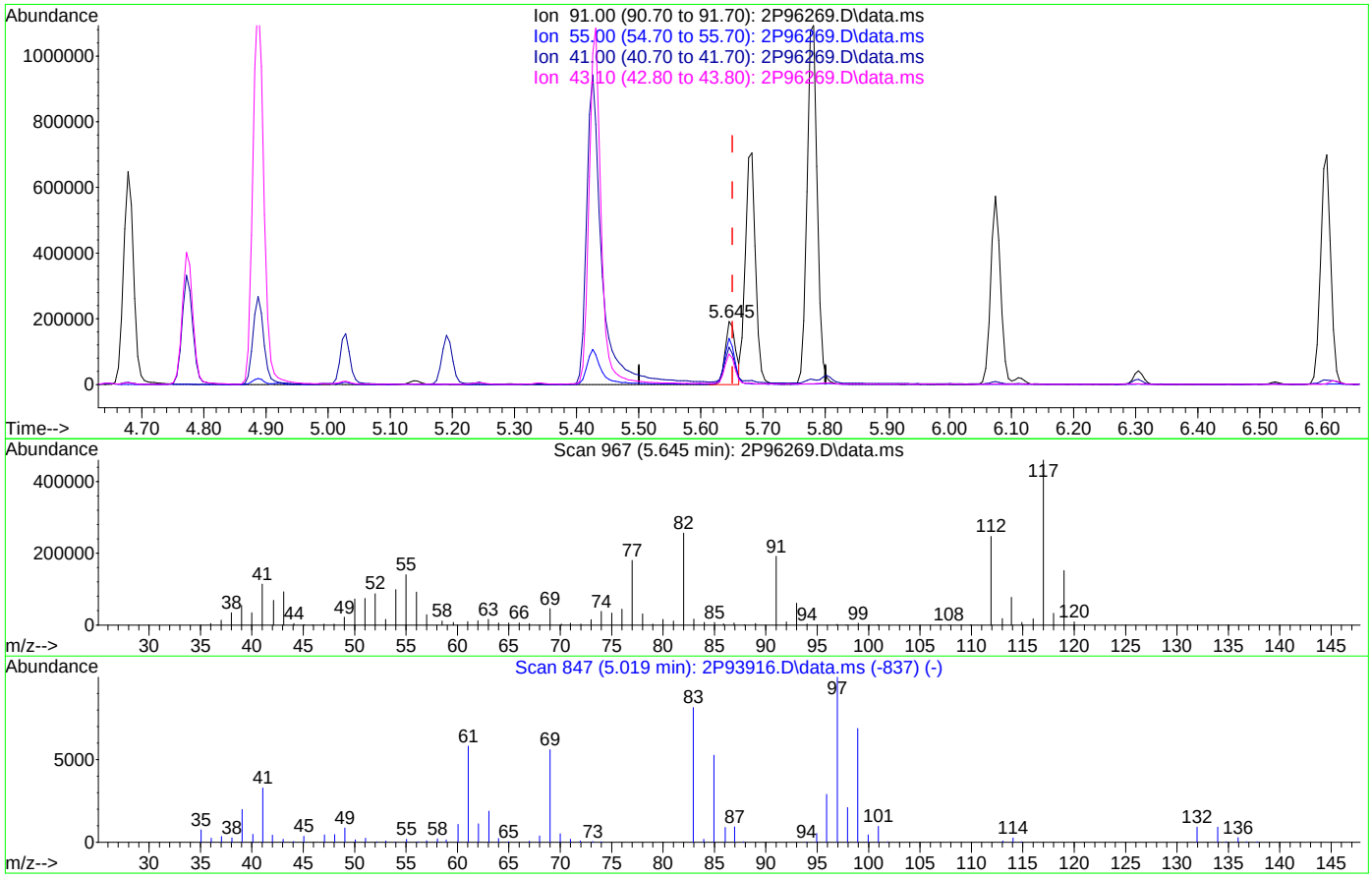
response 154126

Ion	Exp%	Act%
91.00	100	100
55.00	73.60	69.62
41.00	60.90	53.96
43.10	49.80	46.19

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\JenniferF\2022\December\12-13-2022\V2P3657\
Data File : 2P96269.D
Acq On : 12 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5 Inst : MSVOA13
Misc : MS52988,V2P3657,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Results File: V2P_2022-11-04.RES
Quant Time: Dec 12 22:20:39 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



TIC: 2P96269.D\data.ms

(76) 1-Chlorohexane

5.645min (-0.005) 38.44ug/L m

response 220963

Ion	Exp%	Act%
91.00	100	100
55.00	73.60	73.34
41.00	60.90	59.61
43.10	49.80	48.47

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/14/22 01:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96273.D
Acq On : 13 Dec 2022 10:17 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3658,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 13 10:30:48 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.717	96	1049542	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	753850	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.331	152	330124	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.262	113	226664	51.68	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.36%			
49) 1,2-Dichloroethane-d4	3.549	65	314886	49.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.80%			
63) Toluene-d8	4.642	98	1019524	47.56	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.12%			
86) 4-Bromofluorobenzene	6.494	174	285300	56.38	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 112.76%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.123	85	199921	50.04	ug/L	99
3) Chloromethane	1.248	50	194240	43.25	ug/L	98
4) 1,3-butadiene	1.316	39	170797	36.48	ug/L	89
5) Vinyl Chloride	1.300	62	190145	38.82	ug/L	99
6) Bromomethane	1.504	94	45368	19.84	ug/L	94
7) Chloroethane	1.578	64	63571	45.06	ug/L	98
8) Trichlorofluoromethane	1.667	101	179889	32.66	ug/L	98
9) Ethyl Ether	1.876	59	159142	38.56	ug/L	100
10) Ethanol	1.970	45	101063	791.10	ug/L	99
11) 1,2-Dichlorotrifluoroe...	1.975	67	195277	41.23	ug/L	95
12) 1,1-Dichloroethene	1.980	61	245294	42.24	ug/L	96
13) Freon 113	2.012	101	151229	43.14	ug/L	94
14) Carbon Disulfide	1.996	76	442903	40.54	ug/L	95
15) Iodomethane	2.059	142	94280	35.30	ug/L	97
16) Acrolein	2.153	56	282130	220.41	ug/L	99
17) Allyl chloride	2.242	41	237491	44.72	ug/L	96
18) Methylene Chloride	2.299	49	214434	33.73	ug/L	96
19) Acetone	2.315	43	526630	187.91	ug/L	96
20) Methyl acetate	2.393	43	1145229	187.94	ug/L	96
21) trans-1,2-Dichloroethene	2.399	61	240111	41.50	ug/L	96
22) Hexane	2.467	56	127565	39.25	ug/L	97
23) Methyl Tert Butyl Ether	2.467	73	583254	42.69	ug/L	95
24) Tert Butyl Alcohol	2.509	59	598187	419.19	ug/L	97
25) Acetonitrile	2.550	41	376028	342.83	ug/L	97
26) Di-isopropyl ether	2.681	45	581139	41.28	ug/L	98
27) Chloroprene	2.723	53	800058	38.42	ug/L	98
28) 1,1-Dichloroethane	2.728	63	313766	41.65	ug/L	100
29) Acrylonitrile	2.728	52	530041	193.47	ug/L	93
30) ETBE	2.880	59	572344	41.59	ug/L	98
31) Vinyl acetate	2.859	43	2078819	191.77	ug/L	98
32) cis-1,2-Dichloroethene	3.016	96	180036	43.02	ug/L	96
33) 2,2-Dichloropropane	3.084	77	269019	43.45	ug/L	97
34) Bromochloromethane	3.126	128	76209	44.51	ug/L	92
35) Cyclohexane	3.162	56	289049	42.57	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96273.D
Acq On : 13 Dec 2022 10:17 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3658,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 13 10:30:48 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.162	83	319182	43.11	ug/L		98
37) Ethyl acetate	3.225	43	1497369	195.88	ug/L		98
38) Tetrahydrofuran	3.256	42	119070	39.70	ug/L		98
40) Carbon Tetrachloride	3.267	117	220758m	47.78	ug/L		
41) 1,1,1-Trichloroethane	3.293	97	280168	45.68	ug/L		96
42) 2-Butanone	3.314	43	919804	198.90	ug/L		98
43) 1,1-Dichloropropene	3.361	75	247542	43.81	ug/L		92
44) tert-Butyl formate	3.403	59	793170	228.61	ug/L		95
45) Propionitrile	3.460	54	529765	425.53	ug/L		99
46) Methacrylonitrile	3.481	41	1634612	377.90	ug/L		98
47) Benzene	3.492	78	716412	39.84	ug/L		94
48) TAME	3.565	73	552062	42.43	ug/L		96
50) Isobutyl alcohol	3.596	43	605743m	770.33	ug/L		
51) 1,2-Dichloroethane	3.586	62	247172	40.41	ug/L		99
52) Tert Amyl Alcohol	3.654	59	487828	428.74	ug/L		97
53) Trichloroethene	3.821	95	183809	42.42	ug/L		97
54) Methylcyclohexane	3.842	83	271523	44.88	ug/L		97
55) Dibromomethane	4.046	93	108837	44.78	ug/L		92
56) 1,2-Dichloropropane	4.104	63	184473	42.57	ug/L		96
57) Bromodichloromethane	4.140	83	225030	47.98	ug/L		98
58) Methyl methacrylate	4.234	41	202775	39.66	ug/L		94
59) 1,4-Dioxane	4.255	88	98205	908.06	ug/L		98
60) 2-Chloroethyl vinyl ether	4.475	63	541953	183.58	ug/L		97
61) cis-1,3-Dichloropropene	4.517	75	296975	45.00	ug/L		93
64) Toluene	4.679	91	778907	39.99	ug/L		98
65) 2-Nitropropane	4.773	41	391560	187.58	ug/L		97
66) 4-Methyl-2-pentanone	4.888	43	1562520	187.08	ug/L		98
67) trans-1,3-Dichloropropene	4.914	75	262530	45.19	ug/L	#	76
68) Tetrachloroethene	4.935	166	171111	44.40	ug/L		98
69) Ethyl methacrylate	5.024	69	278379	41.86	ug/L		92
70) 1,1,2-Trichloroethane	5.014	83	141096	41.15	ug/L		98
71) Dibromochloromethane	5.139	129	163064	46.54	ug/L		97
72) 1,3-Dichloropropane	5.192	76	317005	42.26	ug/L		92
73) 1,2-Dibromoethane	5.291	107	169870	43.15	ug/L		97
74) 3,3-dimethyl-1-butanol	5.427	57	2447667	1908.75	ug/L		98
75) 2-hexanone	5.427	43	1632998	182.95	ug/L		90
76) 1-Chlorohexane	5.647	91	250931m	40.94	ug/L		
77) Ethylbenzene	5.678	91	840601	39.91	ug/L		98
78) Chlorobenzene	5.652	112	455438	40.34	ug/L		99
79) 1,1,1,2-Tetrachloroethane	5.694	131	161517	47.03	ug/L		92
80) m,p-Xylene	5.777	91	1348584	81.65	ug/L		100
81) o-Xylene	6.075	91	675046	41.43	ug/L		100
82) Styrene	6.107	104	507868	43.43	ug/L		98
83) Bromoform	6.112	173	101008	52.19	ug/L		98
84) Isopropylbenzene	6.306	105	771046	41.52	ug/L		100
87) cis-1,4-Dichloro-2-butene	6.520	53	67107	33.68	ug/L		92
88) n-Propylbenzene	6.604	91	941161	40.83	ug/L		99
89) Bromobenzene	6.567	156	185566	44.81	ug/L		98
90) 1,1,2,2-Tetrachloroethane	6.625	83	264458	41.03	ug/L		98
91) 1,3,5-Trimethylbenzene	6.755	105	645254	42.08	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96273.D
Acq On : 13 Dec 2022 10:17 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3658,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 13 10:30:48 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

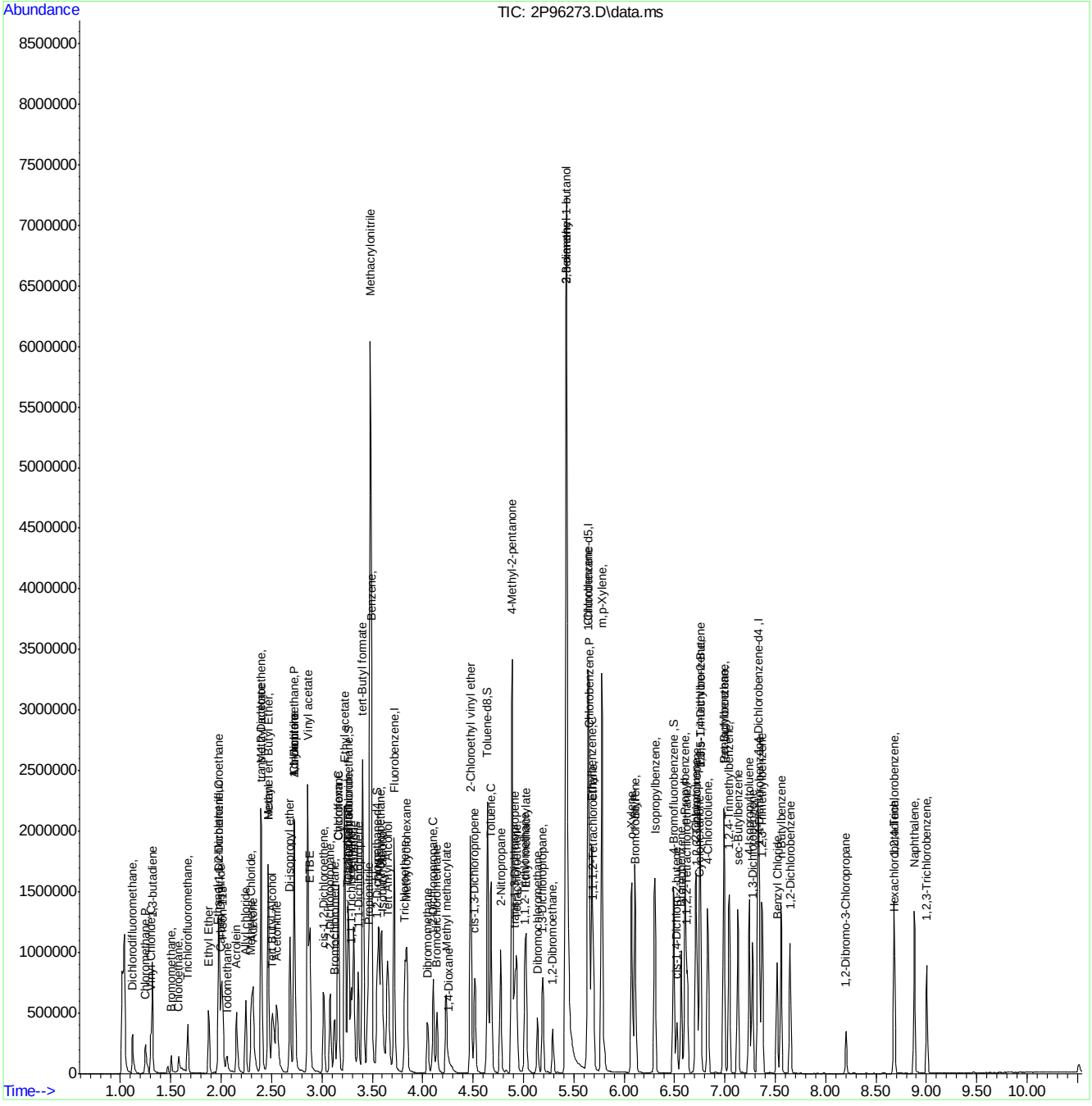
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.708	91	562099	40.68	ug/L		99
93)	trans-1,4-Dichloro-2-B...	6.755	53	81432	34.73	ug/L		90
94)	1,2,3-Trichloropropane	6.719	110	90880	40.17	ug/L		96
95)	Cyclohexanone	6.745	55	81506	181.48	ug/L		95
96)	4-Chlorotoluene	6.829	91	592384	41.18	ug/L		100
97)	tert-Butylbenzene	6.991	91	353573	40.37	ug/L		98
99)	1,2,4-Trimethylbenzene	7.043	105	597407	40.51	ug/L		99
100)	Pentachloroethane	6.991	167	92703	48.11	ug/L	#	83
101)	sec-Butylbenzene	7.127	105	665197	39.50	ug/L		99
102)	4-Isopropyltoluene	7.242	119	584705	41.17	ug/L		100
103)	1,3-Dichlorobenzene	7.273	146	317162	41.92	ug/L		98
104)	1,2,3-Trimethylbenzene	7.367	105	592133	40.28	ug/L		99
105)	1,4-Dichlorobenzene	7.341	146	324581	40.91	ug/L		98
106)	n-Butylbenzene	7.556	92	289974	39.53	ug/L		99
107)	Benzyl Chloride	7.519	126	92364	45.64	ug/L		95
108)	1,2-Dichlorobenzene	7.650	146	300092	41.95	ug/L		94
109)	1,2-Dibromo-3-Chloropr...	8.199	75	64672	45.49	ug/L		89
110)	Hexachlorobutadiene	8.685	225	68703	54.18	ug/L		78
111)	1,2,4-Trichlorobenzene	8.680	180	168551	45.04	ug/L		94
112)	Naphthalene	8.879	128	650632	41.95	ug/L		99
113)	1,2,3-Trichlorobenzene	9.004	180	166499	47.62	ug/L		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96273.D
Acq On : 13 Dec 2022 10:17 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3658,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 13 10:30:48 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V2P3658-CC3622
Lab FileID: 2P96273.D
Injection Time: 12/13/22 10:17

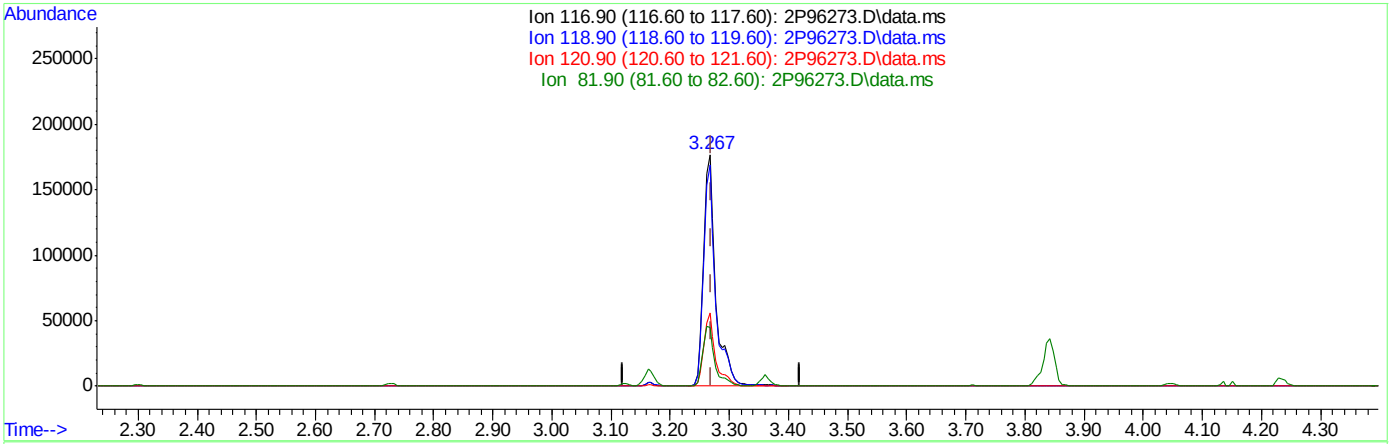
Method: SW846 8260D
Analyst approved: 12/13/22 10:30 Courtney Failla
Supervisor approved: 12/14/22 01:26 Jennifer Fereira

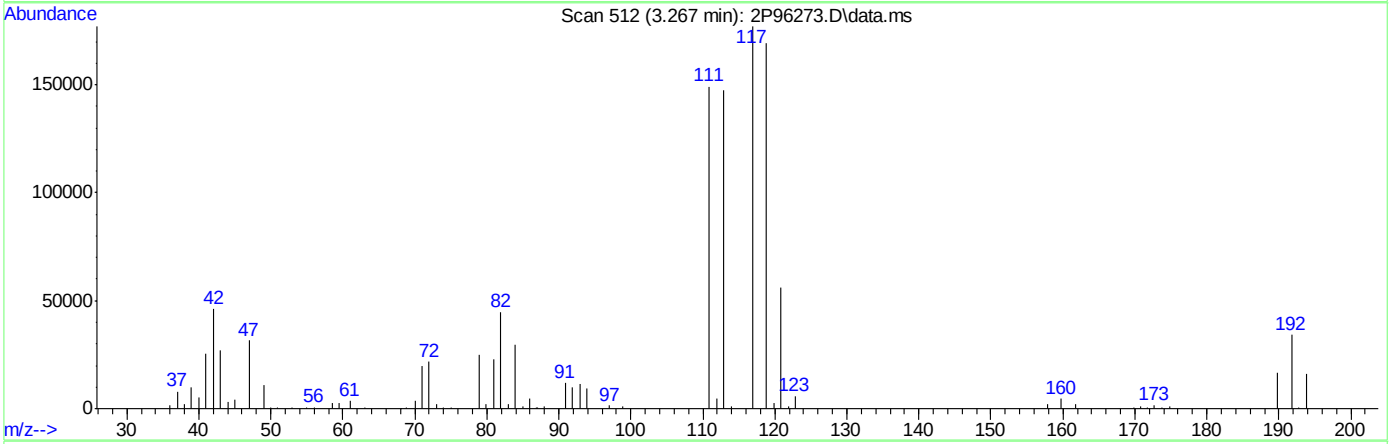
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.60	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96273.D
Acq On : 13 Dec 2022 10:17 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3658,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 13 10:28:28 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96273.D\data.ms

(40) Carbon Tetrachloride ( )

3.267min (-0.004) 55.79ug/L

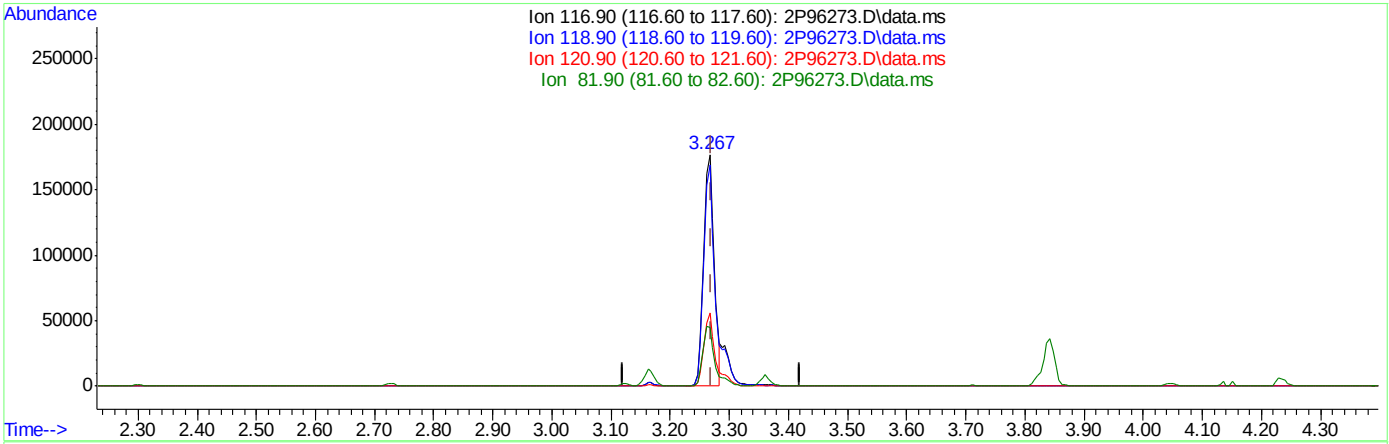
response 257763

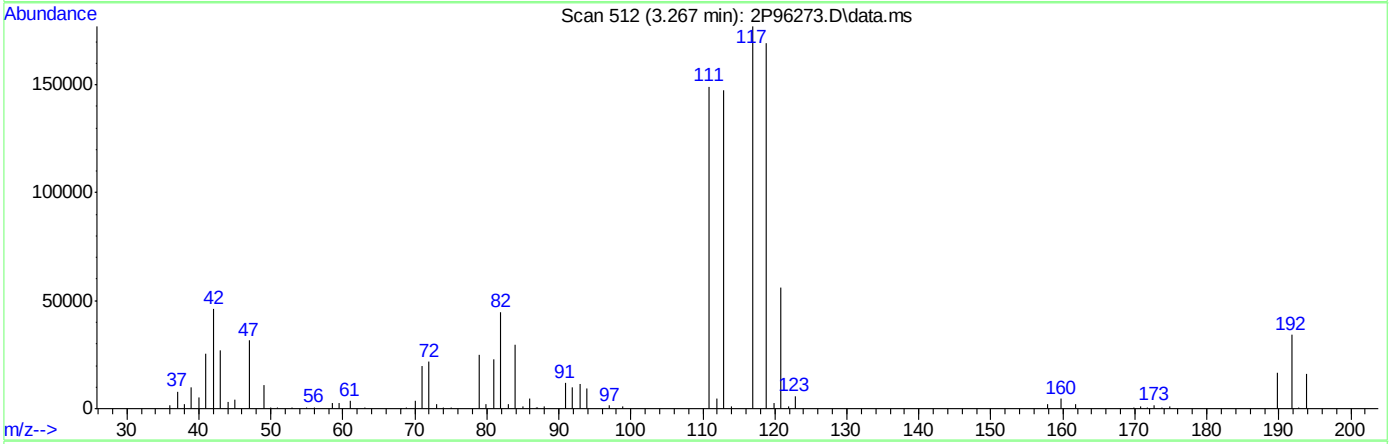
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	95.55
120.90	30.80	31.59
81.90	27.00	25.26

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96273.D
Acq On : 13 Dec 2022 10:17 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3658,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 13 10:28:28 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96273.D\data.ms

(40) Carbon Tetrachloride ( )

3.267min (-0.004) 47.78ug/L m

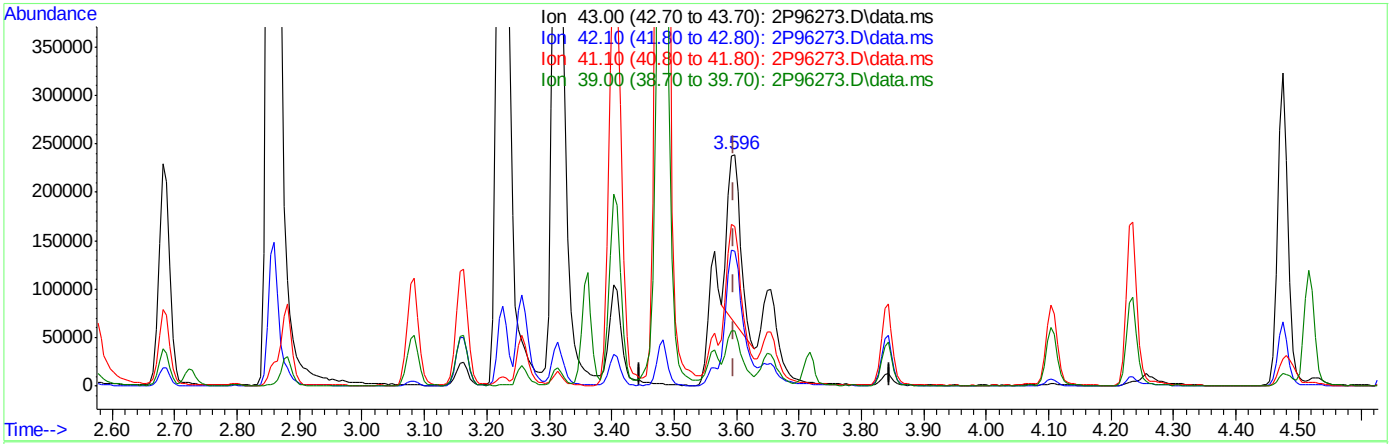
response 220758

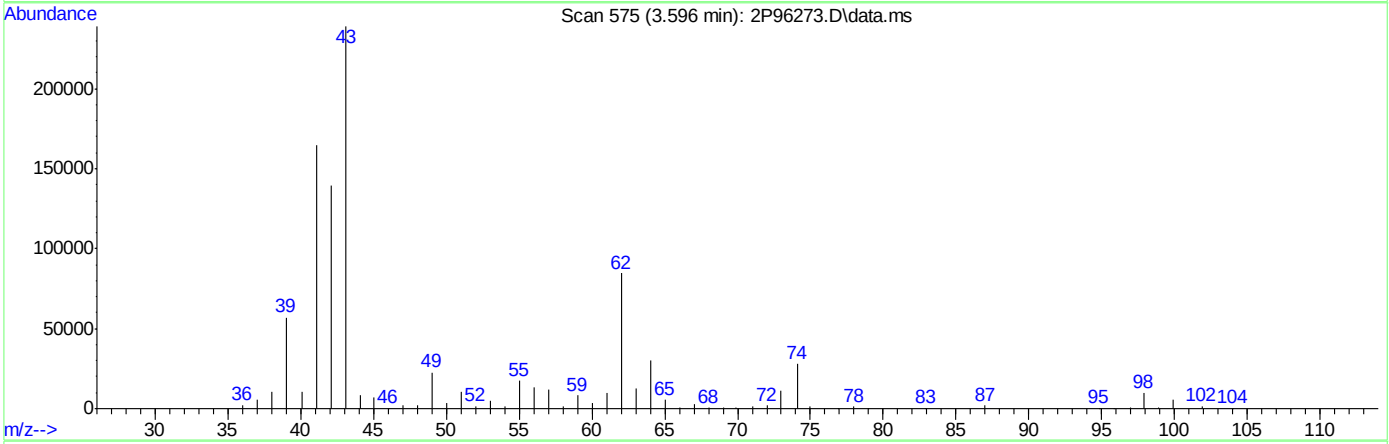
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	95.55
120.90	30.80	31.59
81.90	27.00	25.26

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96273.D
Acq On : 13 Dec 2022 10:17 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3658,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 13 10:28:28 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96273.D\data.ms

(50) Isobutyl alcohol

3.596min (+0.001) 313.02ug/L

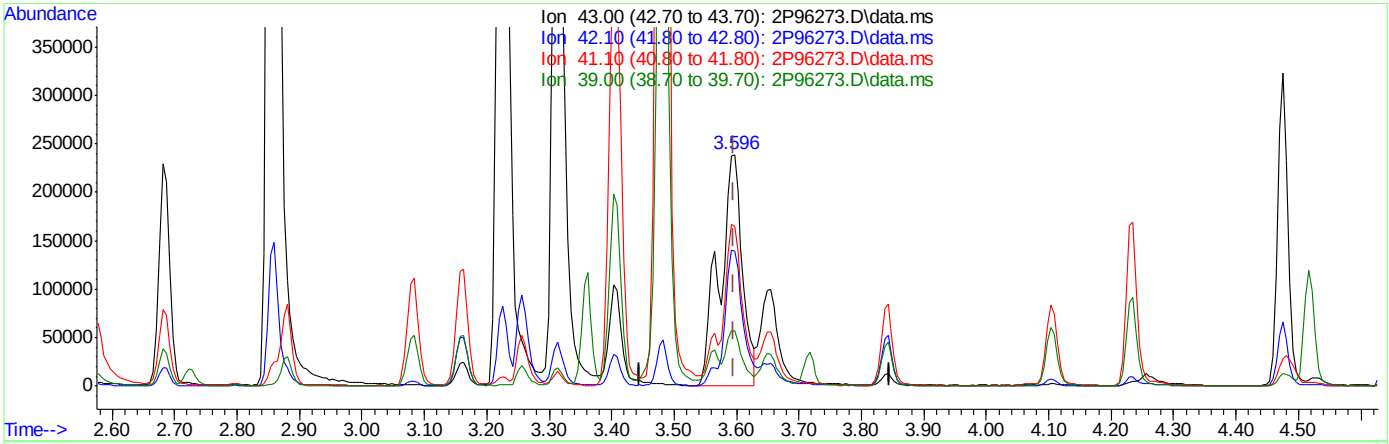
response 246137

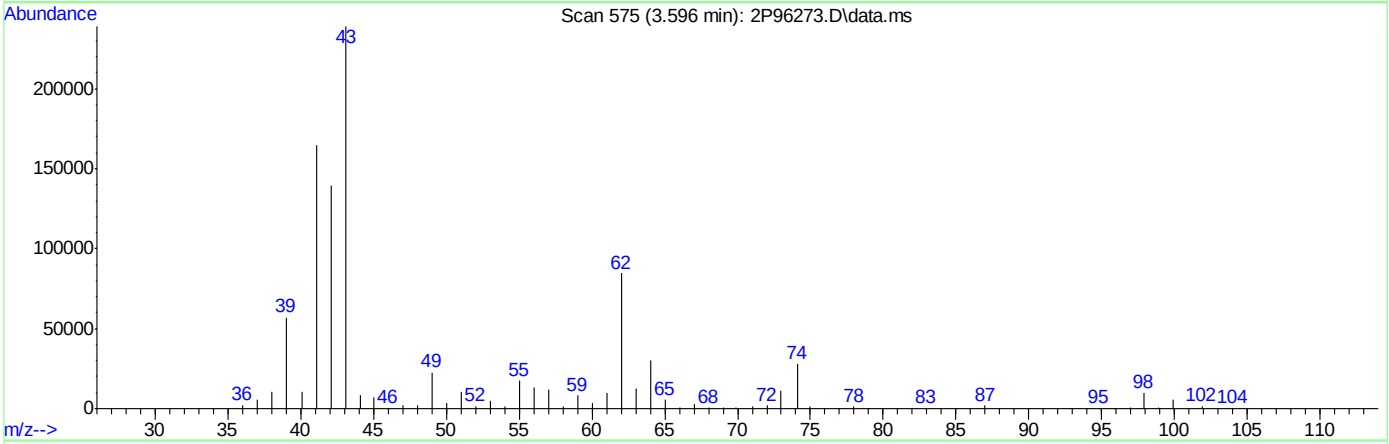
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	59.11
41.10	71.90	67.96
39.00	26.60	23.73

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96273.D
Acq On : 13 Dec 2022 10:17 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3658,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 13 10:28:28 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96273.D\data.ms

(50) Isobutyl alcohol

3.596min (+0.001) 770.33ug/L m

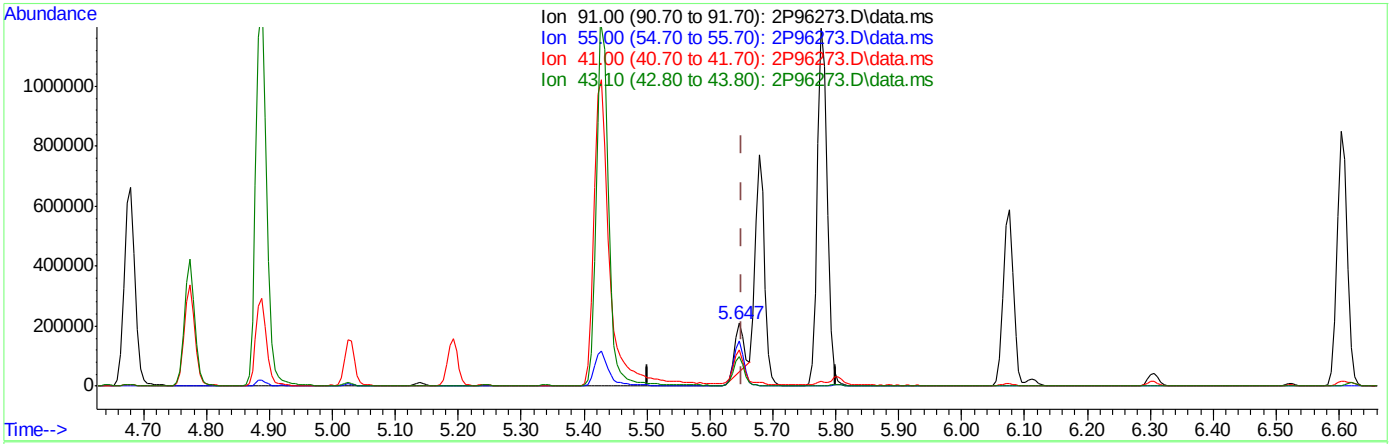
response 605743

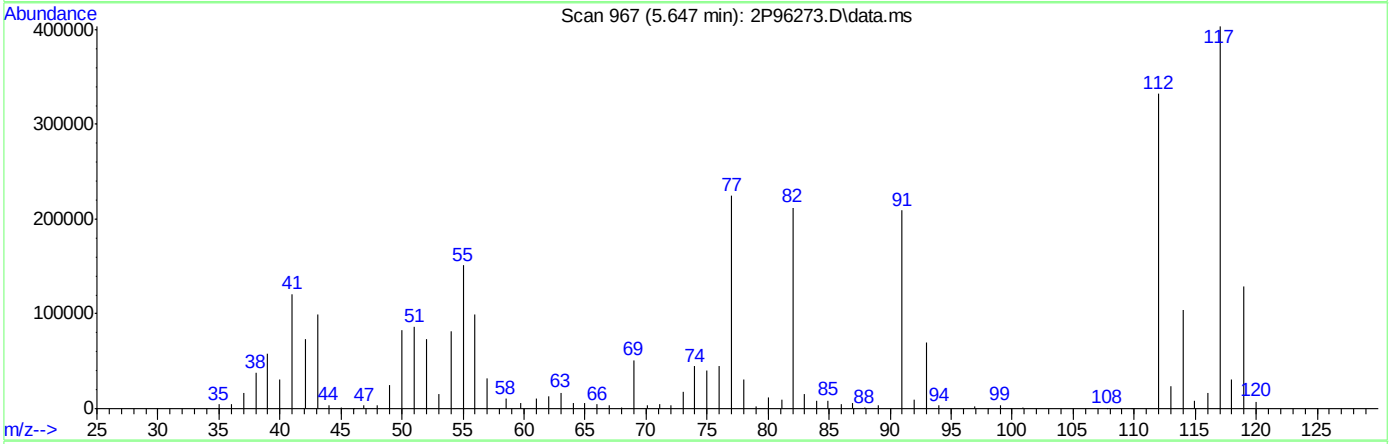
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	58.38
41.10	71.90	68.96
39.00	26.60	23.91

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96273.D
Acq On : 13 Dec 2022 10:17 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3658,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 13 10:28:28 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96273.D\data.ms

(76) 1-Chlorohexane

5.647min (-0.004) 25.89ug/L

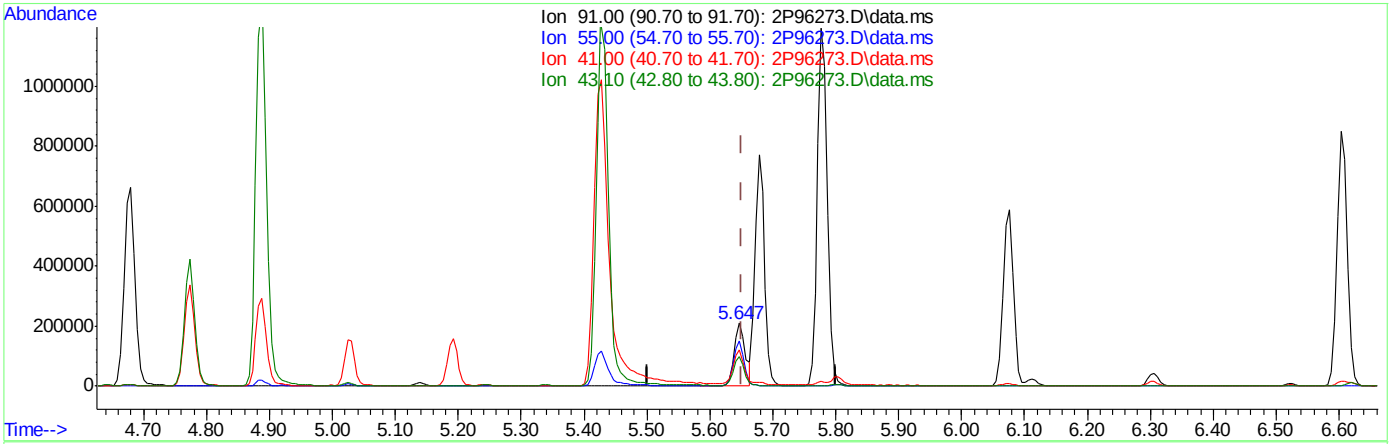
response 158712

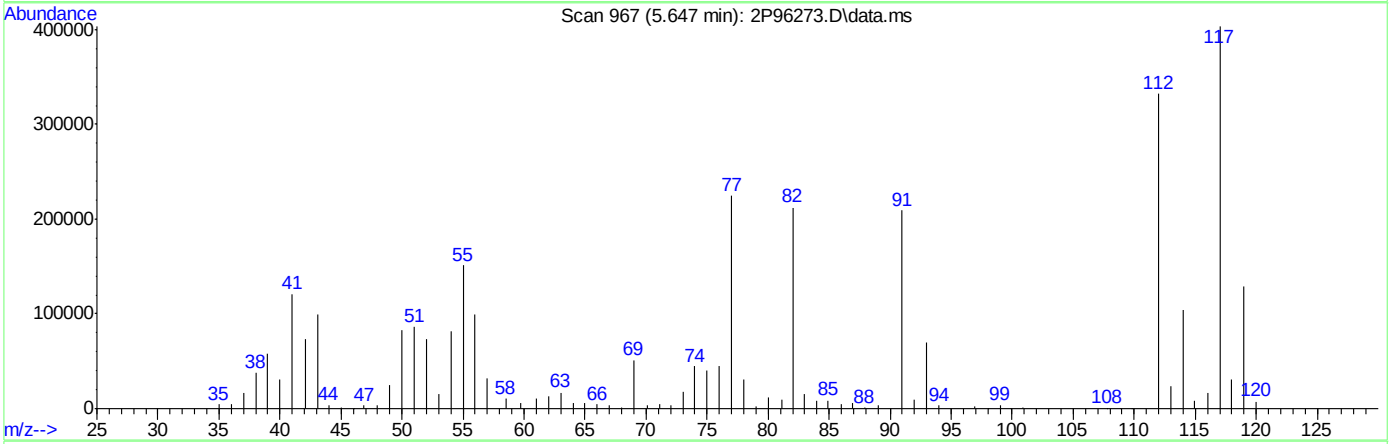
Ion	Exp%	Act%
91.00	100	100
55.00	73.60	70.19
41.00	60.90	53.48
43.10	49.80	45.95

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-13\
Data File : 2P96273.D
Acq On : 13 Dec 2022 10:17 am
Operator : courtnef
Sample : CC3622-5
Misc : MS52806,V2P3658,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Dec 13 10:28:28 2022
Quant Method : C:\msdchem\1\METHODS\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96273.D\data.ms

(76) 1-Chlorohexane

5.647min (-0.004) 40.94ug/L m

response 250931

Ion	Exp%	Act%
91.00	100	100
55.00	73.60	72.18
41.00	60.90	57.78
43.10	49.80	47.62

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 12/14/22 01:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59
Data File : 2P96317.D
Acq On : 13 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5
Misc : MS52987,V2P3658,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Dec 13 22:38:30 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.716	96	827030	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	590399	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	277194	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.261	113	189673	54.88	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.76%			
49) 1,2-Dichloroethane-d4	3.549	65	268117	53.92	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.84%			
63) Toluene-d8	4.647	98	825169	49.15	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.30%			
86) 4-Bromofluorobenzene	6.493	174	228492	53.78	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.122	85	161357	51.26	ug/L	96
3) Chloromethane	1.253	50	148375	41.92	ug/L	99
4) 1,3-butadiene	1.321	39	123958	33.59	ug/L	93
5) Vinyl Chloride	1.305	62	138654	35.93	ug/L	97
6) Bromomethane	1.509	94	44816	24.88	ug/L	97
7) Chloroethane	1.582	64	63277	57.68	ug/L	98
8) Trichlorofluoromethane	1.671	101	163644	37.71	ug/L	99
9) Ethyl Ether	1.880	59	118307	36.38	ug/L	98
10) Ethanol	1.974	45	75222	739.96	ug/L	94
11) 1,2-Dichlorotrifluoroe...	1.974	67	156125	41.83	ug/L	97
12) 1,1-Dichloroethene	1.980	61	208967	45.66	ug/L	98
13) Freon 113	2.016	101	123092	44.56	ug/L	93
14) Carbon Disulfide	2.000	76	361248	41.97	ug/L	98
15) Iodomethane	2.058	142	90635	42.45	ug/L	97
16) Acrolein	2.157	56	211978	210.16	ug/L	98
17) Allyl chloride	2.246	41	185748	44.39	ug/L	96
18) Methylene Chloride	2.304	49	170974	34.12	ug/L	93
19) Acetone	2.319	43	396445	179.02	ug/L	98
20) Methyl acetate	2.398	43	866492	180.45	ug/L	94
21) trans-1,2-Dichloroethene	2.403	61	197917	43.41	ug/L	93
22) Hexane	2.466	56	89623	35.23	ug/L	98
23) Methyl Tert Butyl Ether	2.471	73	492019	45.70	ug/L	90
24) Tert Butyl Alcohol	2.513	59	488965	434.84	ug/L	96
25) Acetonitrile	2.555	41	276885	322.65	ug/L	97
26) Di-isopropyl ether	2.686	45	437297	39.42	ug/L	98
27) Chloroprene	2.727	53	606586	36.97	ug/L	100
28) 1,1-Dichloroethane	2.727	63	253941	42.77	ug/L	100
29) Acrylonitrile	2.727	52	392906	182.00	ug/L	98
30) ETBE	2.879	59	459261	42.35	ug/L	97
31) Vinyl acetate	2.858	43	1478085	173.16	ug/L	99
32) cis-1,2-Dichloroethene	3.020	96	143880	43.63	ug/L	95
33) 2,2-Dichloropropane	3.083	77	212682	43.59	ug/L	99
34) Bromochloromethane	3.125	128	63894	47.36	ug/L	91
35) Cyclohexane	3.162	56	212306	39.68	ug/L	96
36) Chloroform	3.167	83	271786	46.58	ug/L	99
37) Ethyl acetate	3.224	43	1111998	184.60	ug/L	98
38) Tetrahydrofuran	3.256	42	87990	37.23	ug/L	95
40) Carbon Tetrachloride	3.266	117	202569m	55.64	ug/L	
41) 1,1,1-Trichloroethane	3.292	97	245456	50.78	ug/L	96
42) 2-Butanone	3.313	43	658015	180.58	ug/L	96
43) 1,1-Dichloropropene	3.360	75	203774	45.77	ug/L	94
44) tert-Butyl formate	3.407	59	653214	237.80	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96317.D
Acq On : 13 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5
Misc : MS52987,V2P3658,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Dec 13 22:38:30 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	3.460	54	390637	398.20	ug/L		99
46) Methacrylonitrile	3.481	41	1199064	351.79	ug/L		98
47) Benzene	3.491	78	548206	38.68	ug/L		95
48) TAME	3.564	73	445310	43.44	ug/L		96
50) Isobutyl alcohol	3.596	43	441158m	711.97	ug/L		
51) 1,2-Dichloroethane	3.585	62	217614	45.15	ug/L		95
52) Tert Amyl Alcohol	3.653	59	382411	426.51	ug/L		94
53) Trichloroethene	3.826	95	151144	44.27	ug/L		92
54) Methylcyclohexane	3.841	83	202312	42.44	ug/L		96
55) Dibromomethane	4.045	93	87834	45.86	ug/L		94
56) 1,2-Dichloropropane	4.108	63	143204	41.94	ug/L		94
57) Bromodichloromethane	4.145	83	191400	51.79	ug/L		99
58) Methyl methacrylate	4.234	41	160086	39.74	ug/L		92
59) 1,4-Dioxane	4.260	88	73756	865.48	ug/L		95
60) 2-Chloroethyl vinyl ether	4.474	63	434902	186.96	ug/L		95
61) cis-1,3-Dichloropropene	4.516	75	234167	45.03	ug/L		96
64) Toluene	4.678	91	631609	41.41	ug/L		100
65) 2-Nitropropane	4.772	41	344651	208.81	ug/L		98
66) 4-Methyl-2-pentanone	4.887	43	1149756	175.77	ug/L		97
67) trans-1,3-Dichloropropene	4.914	75	213936	47.02	ug/L		97
68) Tetrachloroethene	4.935	166	155421	51.49	ug/L		96
69) Ethyl methacrylate	5.029	69	216976	41.67	ug/L		88
70) 1,1,2-Trichloroethane	5.018	83	110304	41.08	ug/L		85
71) Dibromochloromethane	5.139	129	141690	51.12	ug/L		100
72) 1,3-Dichloropropane	5.191	76	247020	42.05	ug/L		94
73) 1,2-Dibromoethane	5.290	107	137860	44.71	ug/L		98
74) 3,3-dimethyl-1-butanol	5.426	57	1778956	1774.94	ug/L		96
75) 2-hexanone	5.431	43	1169262	167.27	ug/L		97
76) 1-Chlorohexane	5.646	91	183796m	38.29	ug/L		
77) Ethylbenzene	5.677	91	681553	41.32	ug/L		98
78) Chlorobenzene	5.651	112	360827	40.81	ug/L		98
79) 1,1,1,2-Tetrachloroethane	5.693	131	140748	52.33	ug/L		90
80) m,p-Xylene	5.777	91	1098816	84.94	ug/L		98
81) o-Xylene	6.075	91	549094	43.03	ug/L		98
82) Styrene	6.106	104	401712	43.86	ug/L		97
83) Bromoform	6.117	173	88022	57.07	ug/L		96
84) Isopropylbenzene	6.305	105	634650	43.64	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.524	53	53665	32.07	ug/L		87
88) n-Propylbenzene	6.603	91	751967	38.85	ug/L		99
89) Bromobenzene	6.566	156	151574	43.59	ug/L		98
90) 1,1,2,2-Tetrachloroethane	6.629	83	201158	37.17	ug/L		98
91) 1,3,5-Trimethylbenzene	6.755	105	525034	40.78	ug/L		100
92) 2-Chlorotoluene	6.708	91	458883	39.55	ug/L		98
93) trans-1,4-Dichloro-2-B...	6.755	53	65265	33.15	ug/L		94
94) 1,2,3-Trichloropropane	6.723	110	76260	40.14	ug/L		90
95) Cyclohexanone	6.744	55	58805	155.93	ug/L		95
96) 4-Chlorotoluene	6.828	91	483536	40.03	ug/L		99
97) tert-Butylbenzene	6.990	91	303592	41.28	ug/L		95
99) 1,2,4-Trimethylbenzene	7.042	105	517811	41.81	ug/L		99
100) Pentachloroethane	6.990	167	74805	46.40	ug/L	#	88
101) sec-Butylbenzene	7.126	105	559746	39.59	ug/L		98
102) 4-Isopropyltoluene	7.241	119	494805	41.49	ug/L		99
103) 1,3-Dichlorobenzene	7.272	146	267300	42.08	ug/L		98
104) 1,2,3-Trimethylbenzene	7.372	105	506739	41.06	ug/L		99
105) 1,4-Dichlorobenzene	7.340	146	270935	40.66	ug/L		99
106) n-Butylbenzene	7.555	92	241551	39.22	ug/L		99
107) Benzyl Chloride	7.518	126	63376	38.31	ug/L		97
108) 1,2-Dichlorobenzene	7.649	146	253884	42.27	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96317.D
Acq On : 13 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5
Misc : MS52987,V2P3658,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Dec 13 22:38:30 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration

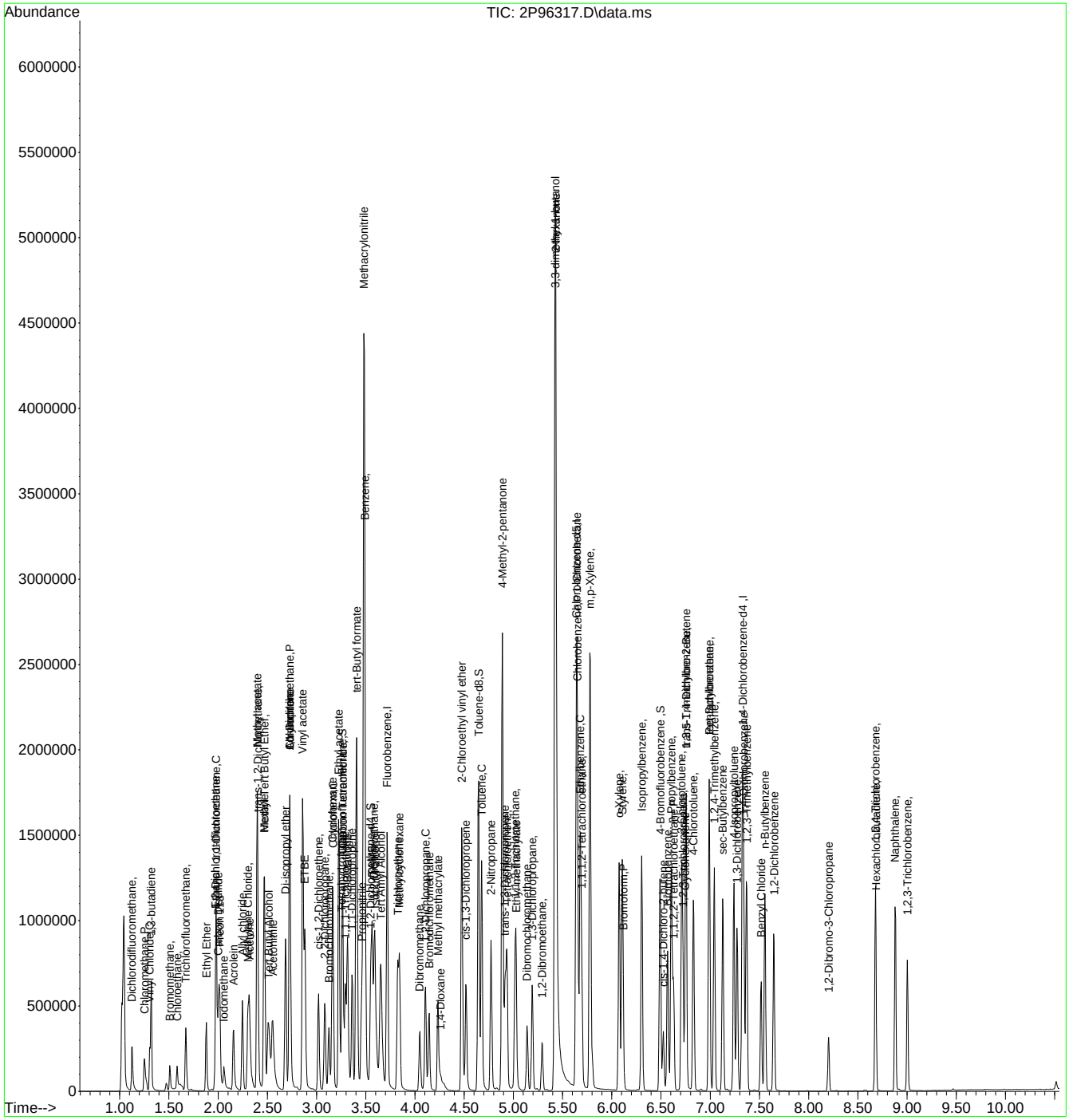
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	8.203	75	55404	46.41	ug/L	83
110) Hexachlorobutadiene	8.685	225	56122	52.71	ug/L	81
111) 1,2,4-Trichlorobenzene	8.679	180	140705	44.78	ug/L	98
112) Naphthalene	8.878	128	537398	41.27	ug/L	99
113) 1,2,3-Trichlorobenzene	9.004	180	135752	46.24	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96317.D
Acq On : 13 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5
Misc : MS52987,V2P3658,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Dec 13 22:38:30 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration



Manual Integration Approval Summary

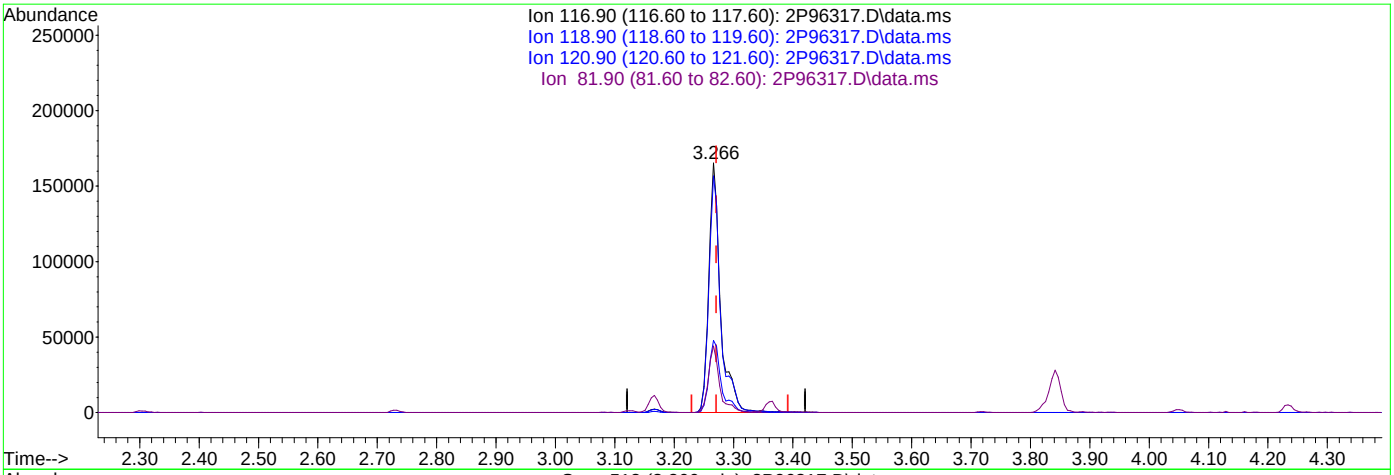
Sample Number: V2P3658-ECC3622
Lab FileID: 2P96317.D
Injection Time: 12/13/22 21:58
Method: SW846 8260D
Analyst approved: 12/13/22 22:41 Celine Celis
Supervisor approved: 12/14/22 01:26 Jennifer Fereira

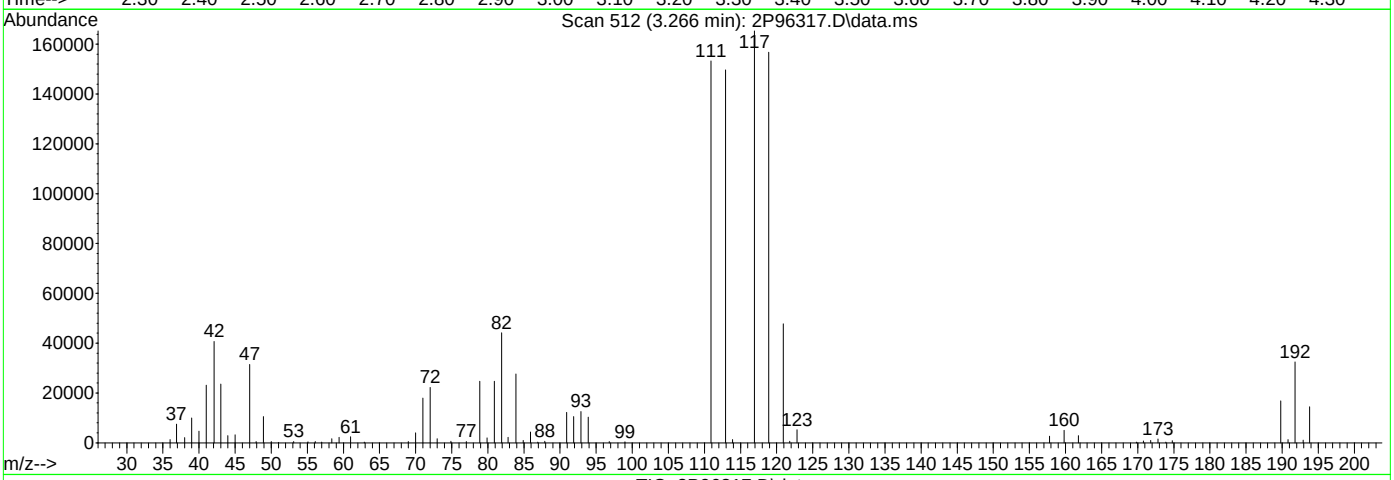
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.60	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96317.D
Acq On : 13 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5
Misc : MS52987,V2P3658,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Dec 13 22:36:09 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96317.D\data.ms

(40) Carbon Tetrachloride ( )

3.266min (-0.005) 63.14ug/L

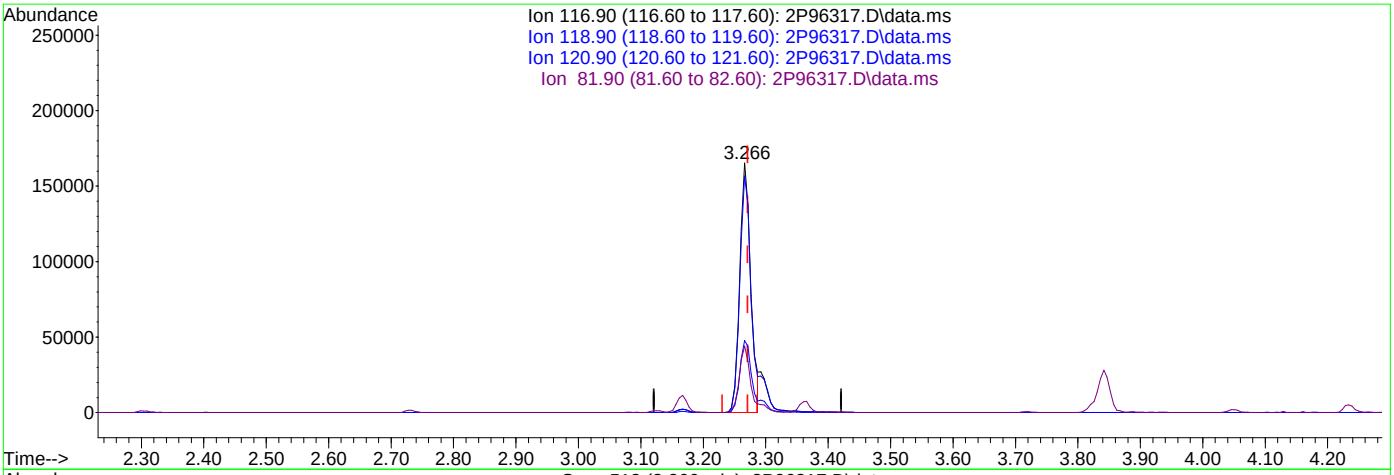
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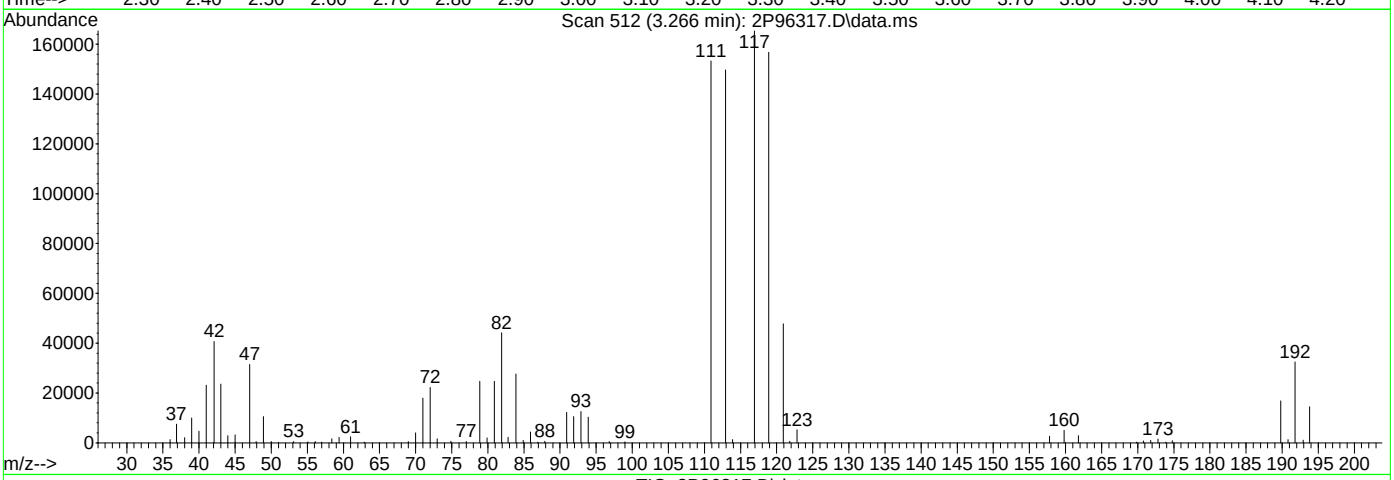
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	94.81
120.90	30.80	28.87
81.90	27.00	26.70

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96317.D
Acq On : 13 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5
Misc : MS52987,V2P3658,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Dec 13 22:36:09 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96317.D\data.ms

(40) Carbon Tetrachloride ( )

3.266min (-0.005) 55.64ug/L m

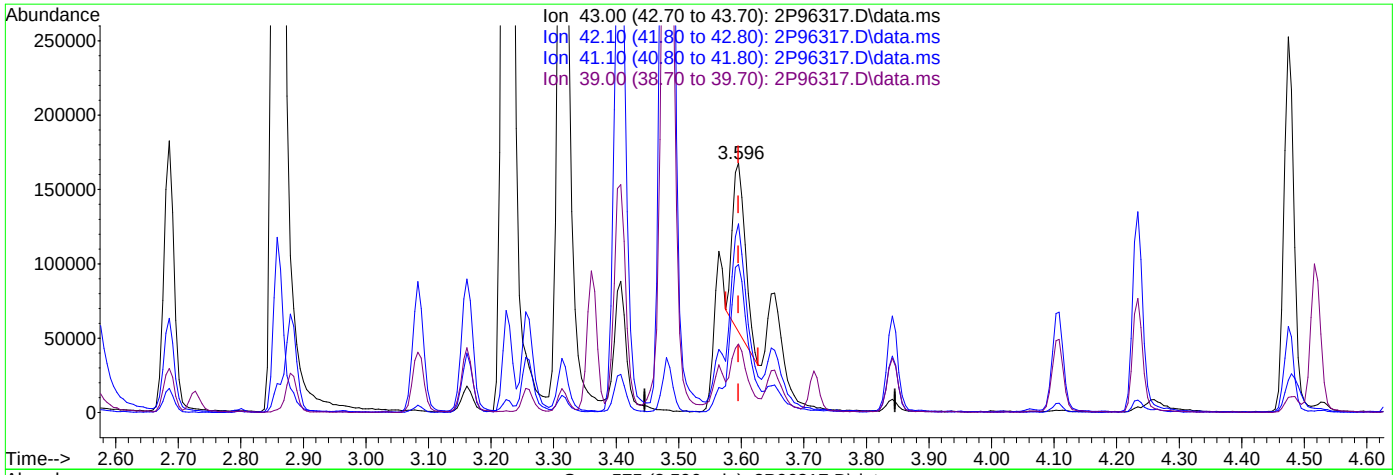
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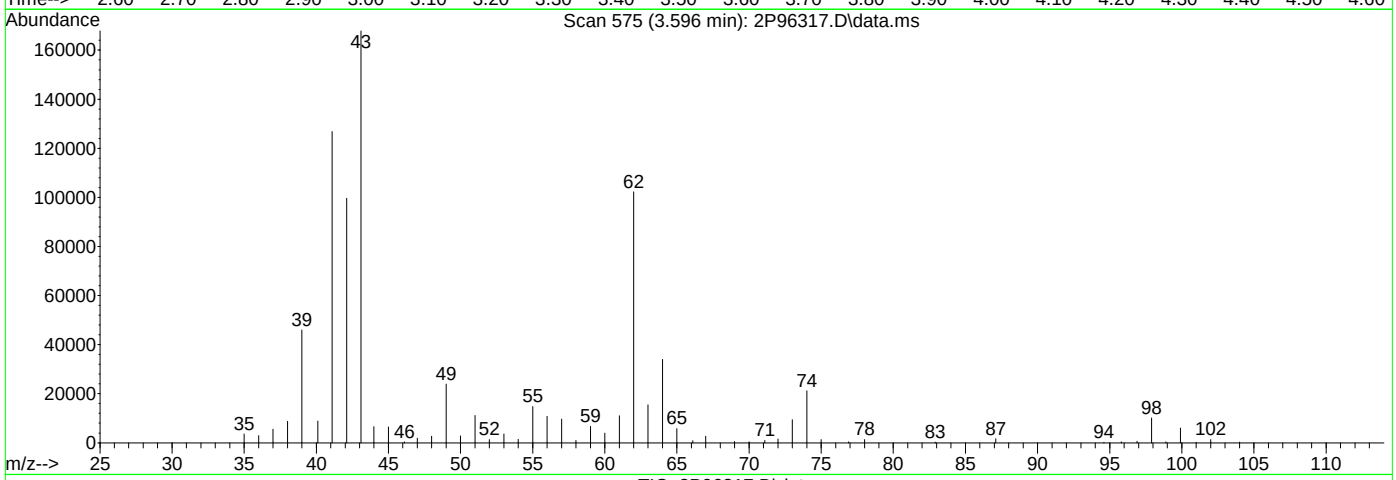
Ion	Exp%	Act%
116.90	100	100
118.90	94.10	94.81
120.90	30.80	28.87
81.90	27.00	26.70

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96317.D
Acq On : 13 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5
Misc : MS52987,V2P3658,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Dec 13 22:36:09 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96317.D\data.ms

(50) Isobutyl alcohol

3.596min (+0.000) 251.12ug/L

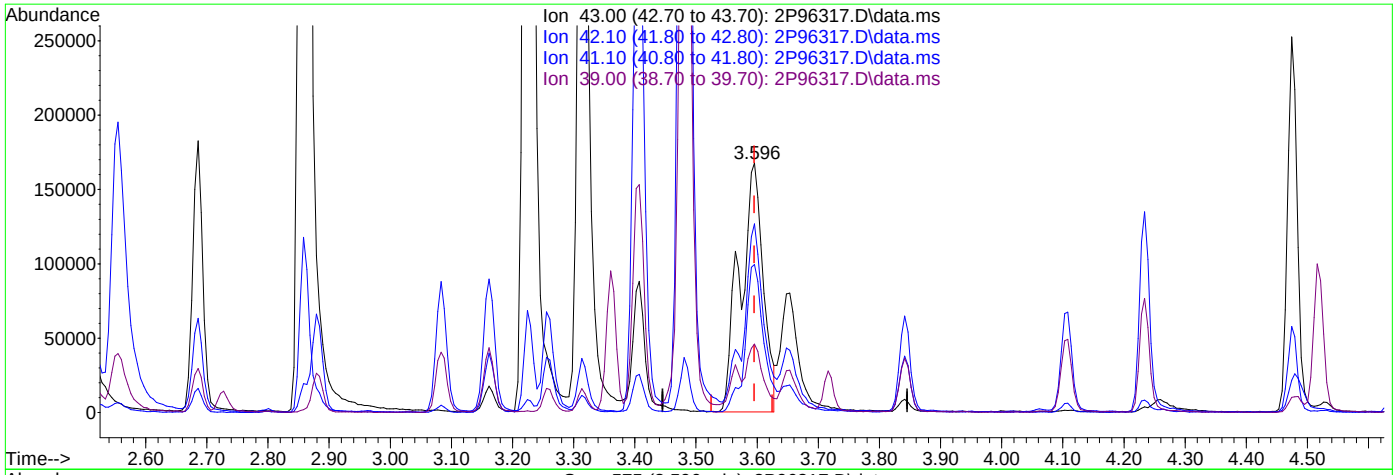
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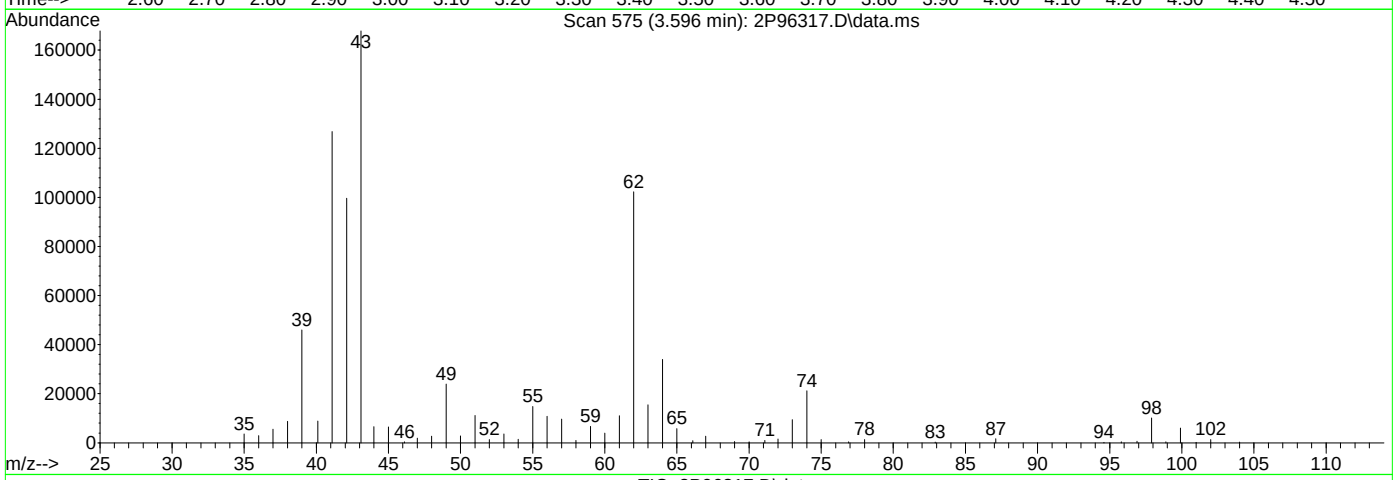
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	59.95
41.10	71.90	75.36
39.00	26.60	26.74

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96317.D
Acq On : 13 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5
Misc : MS52987,V2P3658,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Dec 13 22:36:09 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96317.D\data.ms

(50) Isobutyl alcohol

3.596min (+0.000) 711.97ug/L m

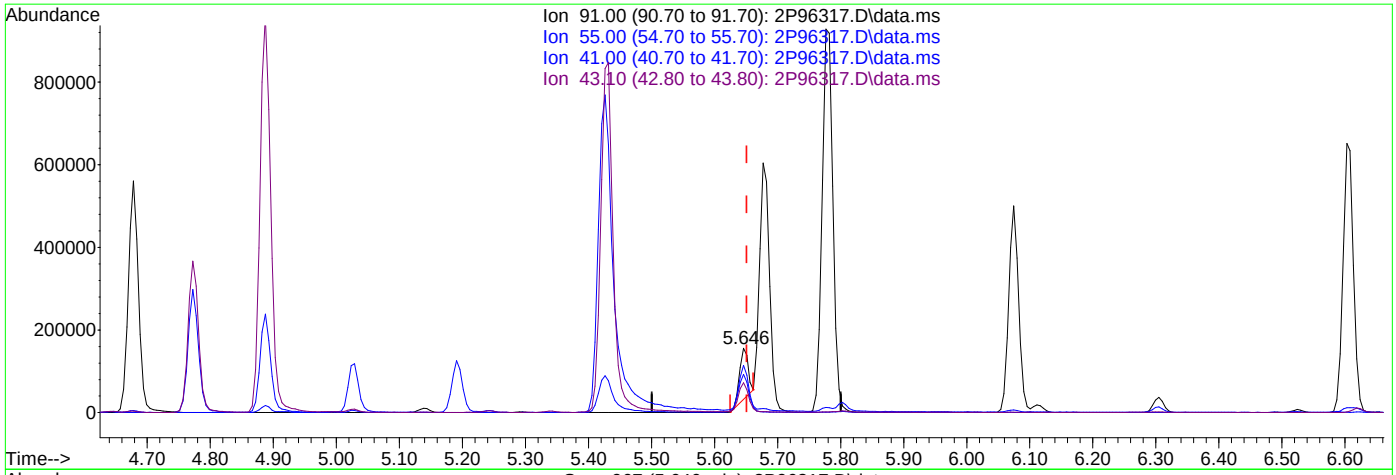
response 441158

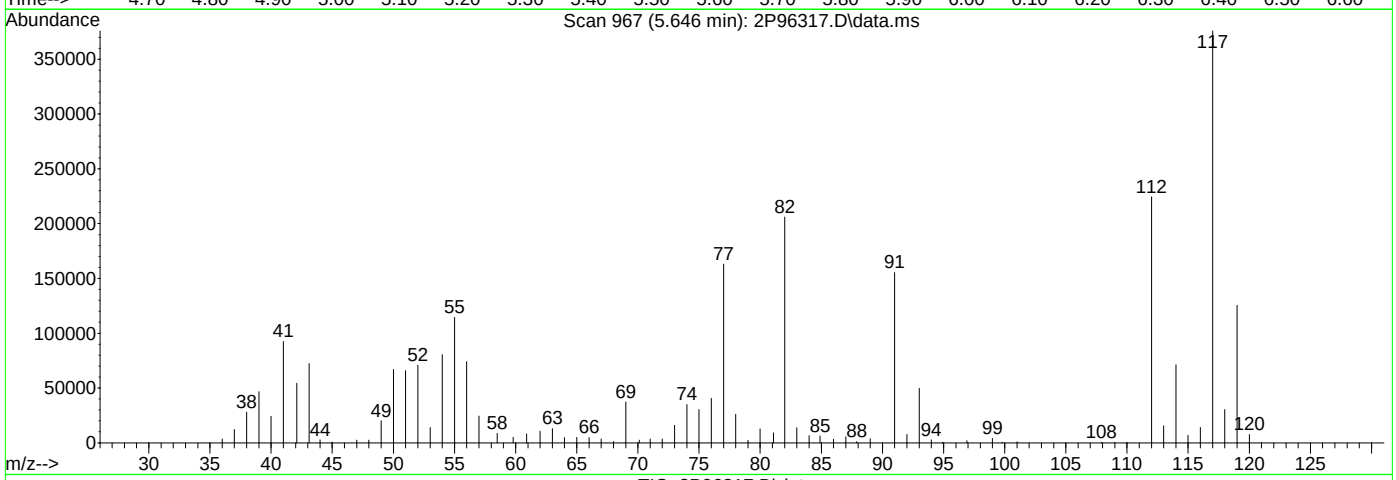
Ion	Exp%	Act%
43.00	100	100
42.10	60.00	59.34
41.10	71.90	75.58
39.00	26.60	27.38

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96317.D
Acq On : 13 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5
Misc : MS52987,V2P3658,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Dec 13 22:36:09 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96317.D\data.ms

(76) 1-Chlorohexane

5.646min (-0.005) 25.32ug/L

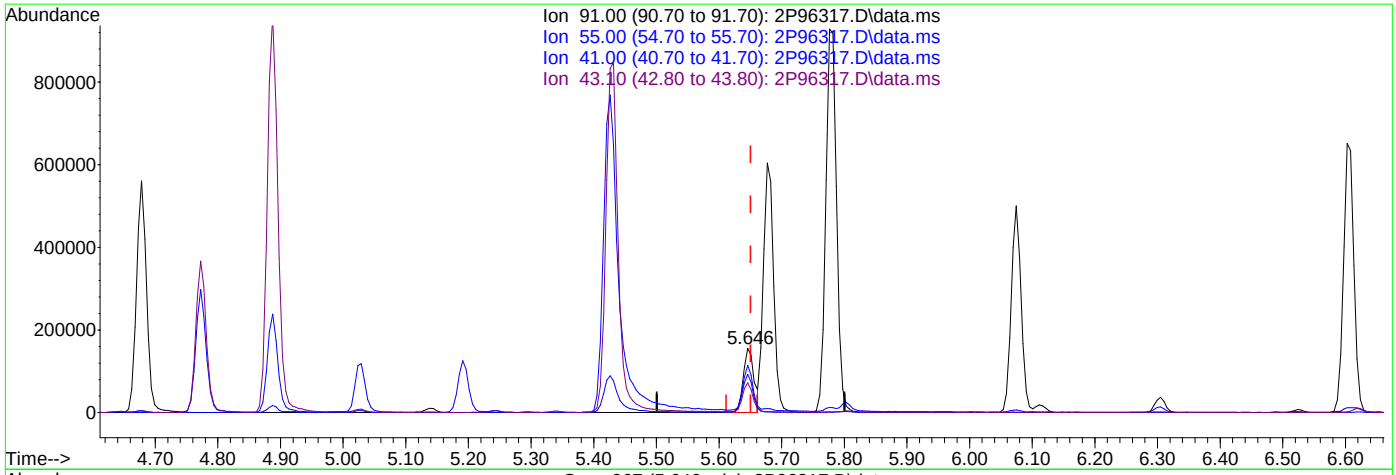
response 121541

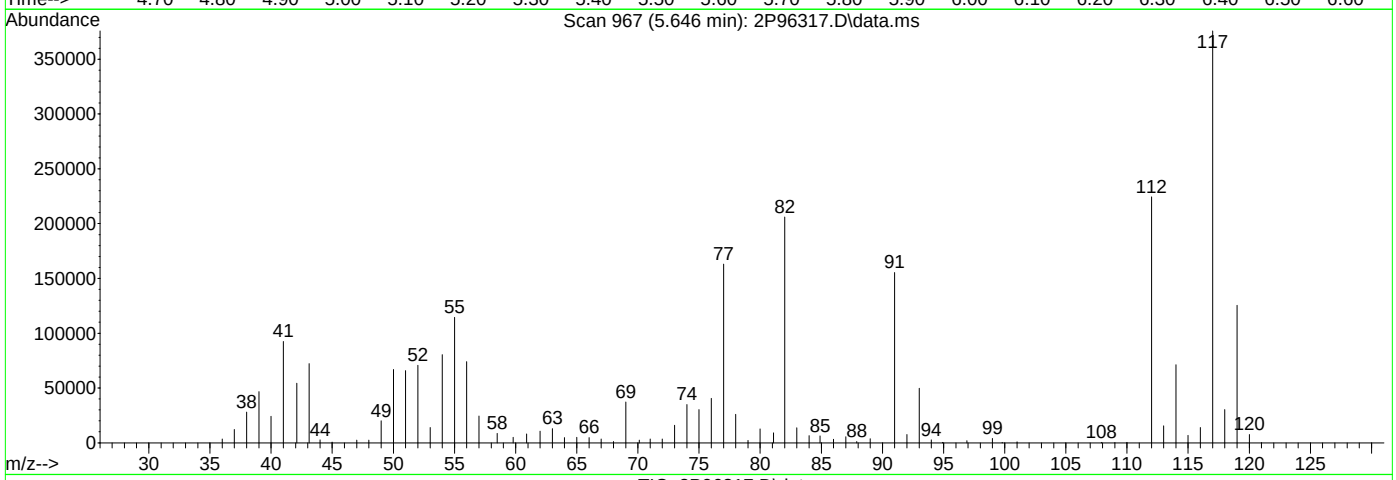
Ion	Exp%	Act%
91.00	100	100
55.00	73.60	72.10
41.00	60.90	55.29
43.10	49.80	45.07

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2022\December 2022\12-14-2022\V2P3658-59\
Data File : 2P96317.D
Acq On : 13 Dec 2022 9:58 pm
Operator : courtnef
Sample : ECC3622-5
Misc : MS52987,V2P3658,,,,,
ALS Vial : 74 Sample Multiplier: 1

Quant Time: Dec 13 22:36:09 2022
Quant Method : C:\msdchem\1\methods\V2P_2022-11-04.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Nov 04 16:11:35 2022
Response via : Initial Calibration





TIC: 2P96317.D\data.ms

(76) 1-Chlorohexane

5.646min (-0.005) 38.29ug/L m

response 183796

Ion	Exp%	Act%
91.00	100	100
55.00	73.60	73.66
41.00	60.90	59.46
43.10	49.80	46.57

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor
12/01/22 18:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753067.D
Acq On : 30 Nov 2022 10:36 am
Operator : kylieg
Sample : IC2765-1
Misc : MS52729,VI2765,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 13:51:01 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.335	96	517145	50.00	ug/L		0.00
62) Chlorobenzene-d5	11.512	117	377941	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	13.877	152	179340	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	7.451	113	139357	48.66	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	97.32%			
49) 1,2-Dichloroethane-d4	8.037	65	162425	51.42	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery =	102.84%			
63) Toluene-d8	9.945	98	511865	49.08	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery =	98.16%			
86) 4-Bromofluorobenzene	12.725	174	147597	48.69	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	97.38%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.391	85	2763	1.01	ug/L		100
3) Chloromethane	2.708	50	3049	1.29	ug/L		95
4) Vinyl Chloride	2.861	62	2850	1.24	ug/L		96
5) 1,3-Butadiene	2.904	39	3169	1.29	ug/L		82
6) Bromomethane	3.391	94	1892	2.44	ug/L		98
7) Chloroethane	3.580	64	1794	1.74	ug/L	#	45
8) Trichlorofluoromethane	3.812	101	3495	1.07	ug/L		98
9) Ethyl Ether	4.306	59	1842	1.06	ug/L		84
10) 1,2-Dichlorotrifluoroe...	4.556	67	2713	1.04	ug/L		89
11) 1,1-Dichloroethene	4.568	61	3661	1.13	ug/L		92
13) Freon 113	4.629	101	1943	0.91	ug/L		92
14) Carbon Disulfide	4.604	76	6267	1.05	ug/L		88
15) Iodomethane	4.763	142	529	0.44	ug/L		85
16) Acrolein	5.025	56	4852	6.78	ug/L		97
17) Allyl chloride	5.208	41	3401	1.16	ug/L	#	92
18) Methylene Chloride	5.336	49	6002	1.68	ug/L		87
19) Acetone	5.415	43	10600	6.84	ug/L		94
20) Methyl acetate	5.586	43	13313m	4.75	ug/L		
21) trans-1,2-Dichloroethene	5.574	61	3120	1.04	ug/L		88
22) Hexane	5.677	56	1020m	0.72	ug/L		
23) Methyl Tert Butyl Ether	5.690	73	5346	0.87	ug/L		74
24) Tert butyl alcohol	5.811	59	9973	9.26	ug/L		88
25) Acetonitrile	6.000	41	6714	10.75	ug/L		78
26) Di-isopropyl ether	6.159	45	6558	0.99	ug/L		97
27) Chloroprene	6.305	53	2848	0.92	ug/L		94
28) 1,1-Dichloroethane	6.305	63	3834	1.01	ug/L		91
29) Acrylonitrile	6.433	53	1745	1.36	ug/L		78
30) ETBE	6.586	59	6270	0.94	ug/L		89
31) Vinyl acetate	6.720	43	6873m	1.59	ug/L		
32) cis-1,2-Dichloroethene	6.976	96	1885	0.89	ug/L		90
33) 2,2-Dichloropropane	7.067	77	3331	0.96	ug/L		95
34) Bromochloromethane	7.214	128	723	0.81	ug/L	#	79
35) Cyclohexane	7.201	56	3048	0.87	ug/L		93
36) Chloroform	7.262	83	3703	0.93	ug/L		92
37) Ethyl acetate	7.409	43	4993m	1.39	ug/L		
38) Tetrahydrofuran	7.458	42	2627	1.43	ug/L		80
40) Carbon Tetrachloride	7.433	117	2800	0.87	ug/L		98
41) 1,1,1-Trichloroethane	7.488	97	3365	0.94	ug/L		98
42) 2-Butanone	7.665	43	5774	2.49	ug/L		98
43) 1,1-Dichloropropene	7.653	75	2559	0.89	ug/L		95
44) tert-Butyl Formate	7.732	59	11901	7.63	ug/L		91
45) Propionitrile	7.915	54	6695	8.85	ug/L	#	37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753067.D
Acq On : 30 Nov 2022 10:36 am
Operator : kylieg
Sample : IC2765-1
Misc : MS52729,VI2765,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 13:51:01 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	Methacrylonitrile	7.933	41	23667	10.48	ug/L		97
47)	Benzene	7.921	78	7728	0.97	ug/L		87
48)	TAME	8.012	73	4957	0.86	ug/L		89
50)	Isobutyl alcohol	8.104	42	3897	16.22	ug/L		98
51)	1,2-Dichloroethane	8.140	62	2938	0.92	ug/L		84
52)	Tert Amyl Alcohol	8.201	59	7792	8.59	ug/L		94
53)	Trichloroethene	8.555	95	2205	0.96	ug/L	#	77
54)	Methylcyclohexane	8.543	83	2576	0.84	ug/L		93
55)	Dibromomethane	9.018	93	962	0.70	ug/L		92
56)	1,2-Dichloropropane	9.079	63	2038	0.99	ug/L		89
57)	Bromodichloromethane	9.134	83	2306	0.79	ug/L		98
59)	1,4-Dioxane	9.341	88	810	11.47	ug/L	#	59
60)	2-Chloroethyl vinyl ether	9.695	63	6714	3.84	ug/L		91
61)	cis-1,3-Dichloropropene	9.786	75	2580	0.80	ug/L	#	65
64)	Toluene	10.018	91	7915	0.88	ug/L		91
65)	2-Nitropropane	10.213	41	3570	2.48	ug/L	#	72
66)	4-Methyl-2-pentanone	10.347	43	19482	4.23	ug/L		96
67)	trans-1,3-Dichloropropene	10.457	75	2061	0.72	ug/L	#	64
68)	Tetrachloroethene	10.426	166	1993	0.82	ug/L		92
69)	Ethyl methacrylate	10.579	69	1178	0.41	ug/L	#	22
70)	1,1,2-Trichloroethane	10.579	83	1358	0.79	ug/L		86
71)	Dibromochloromethane	10.780	129	1465	0.60	ug/L		91
72)	1,3-Dichloropropane	10.859	76	2357	0.70	ug/L		91
73)	1,2-Dibromoethane	11.048	107	1606	0.74	ug/L		88
74)	3,3-dimethyl-1-butanol	11.121	57	51639m	55.03	ug/L		
75)	2-hexanone	11.195	43	12413	3.15	ug/L		80
76)	1-Chlorohexane	11.481	91	2803	1.03	ug/L		83
77)	Ethylbenzene	11.542	91	9321	0.94	ug/L		89
78)	Chlorobenzene	11.530	112	5122	0.91	ug/L		87
79)	1,1,1,2-Tetrachloroethane	11.591	131	1694	0.78	ug/L	#	74
80)	m,p-Xylene	11.688	91	12733	1.63	ug/L		97
81)	o-Xylene	12.127	91	5531	0.70	ug/L		84
82)	Styrene	12.213	104	3344	0.62	ug/L		96
83)	Bromoform	12.225	173	1009	0.53	ug/L		87
84)	Isopropylbenzene	12.426	105	7516	0.80	ug/L		97
87)	cis-1,4-Dichloro-2-butene	12.798	53	613	0.56	ug/L	#	73
88)	n-Propylbenzene	12.853	91	9199	0.88	ug/L		93
89)	Bromobenzene	12.865	156	1926	0.87	ug/L		88
90)	1,1,2,2-Tetrachloroethane	12.908	83	3051	0.89	ug/L		92
91)	1,3,5-Trimethylbenzene	13.030	105	5681	0.76	ug/L		88
92)	2-Chlorotoluene	13.036	91	6312	0.88	ug/L		92
94)	1,2,3-Trichloropropane	13.066	110	860	0.78	ug/L	#	74
95)	Cyclohexanone	13.133	55	957	2.89	ug/L		95
96)	4-Chlorotoluene	13.206	91	5171	0.81	ug/L		95
97)	tert-Butylbenzene	13.359	91	3500	0.82	ug/L		97
98)	1,2,4-Trimethylbenzene	13.444	105	5165	0.72	ug/L		95
99)	Pentachloroethane	13.414	167	1035	0.86	ug/L	#	81
100)	sec-Butylbenzene	13.554	105	7387	0.88	ug/L		96
101)	4-Isopropyltoluene	13.682	119	5366	0.74	ug/L		96
102)	1,3-Dichlorobenzene	13.828	146	3369	0.87	ug/L		93
103)	1,2,3-Trimethylbenzene	13.895	105	5777	0.81	ug/L	#	72
104)	1,4-Dichlorobenzene	13.895	146	4097	0.97	ug/L		86
105)	n-Butylbenzene	14.133	92	2949	0.74	ug/L	#	47
106)	Benzyl Chloride	14.157	126	376m	0.32	ug/L		
107)	1,2-Dichlorobenzene	14.340	146	3194	0.83	ug/L		95
108)	1,2-Dibromo-3-Chloropr...	15.090	75	727	0.68	ug/L	#	49
109)	Hexachlorobutadiene	15.651	225	979	0.84	ug/L		87
110)	1,2,4-Trichlorobenzene	15.712	180	2024	0.80	ug/L	#	77

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753067.D
Acq On : 30 Nov 2022 10:36 am
Operator : kylieg
Sample : IC2765-1
Misc : MS52729,VI2765,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 13:51:01 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
111) Naphthalene	15.986	128	6003	0.63	ug/L	93
112) 1,2,3-Trichlorobenzene	16.145	180	1804	0.71	ug/L	83

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

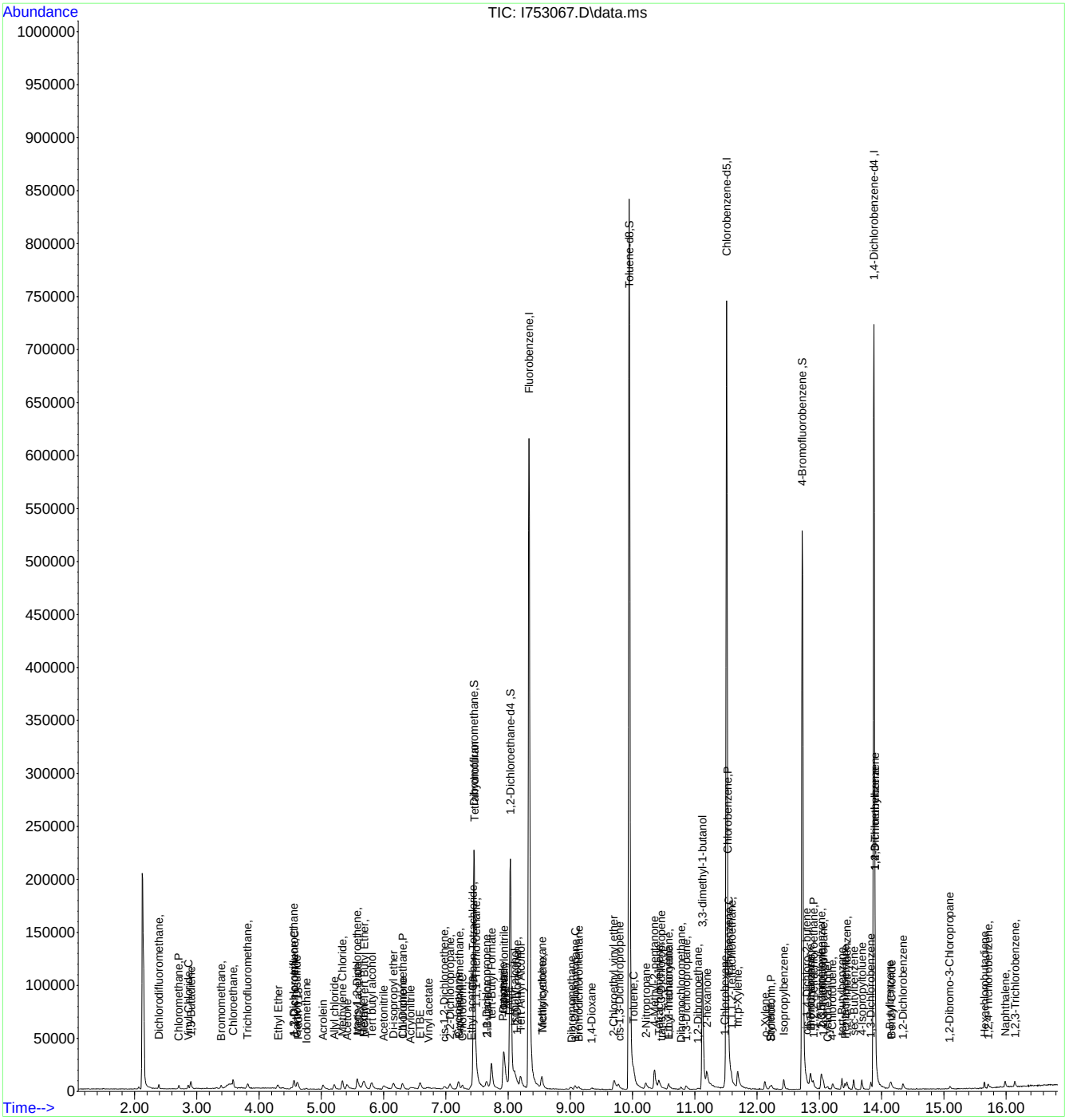
7.9.47

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753067.D
Acq On : 30 Nov 2022 10:36 am
Operator : kylieg
Sample : IC2765-1
Misc : MS52729,VI2765,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 13:51:01 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration



Manual Integration Approval Summary

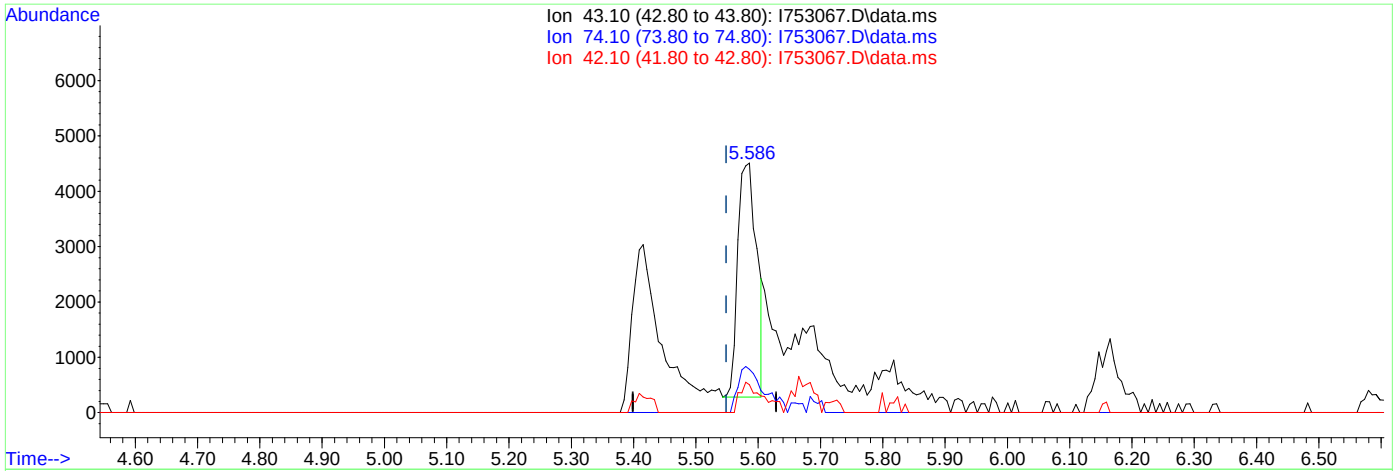
Sample Number: VI2765-IC2765
Lab FileID: I753067.D
Injection Time: 11/30/22 10:36
Method: SW846 8260D
Analyst approved: 11/30/22 14:46 Jo-Ann Lugo De Jesus
Supervisor approved: 12/01/22 18:35 Shanica O'Connor

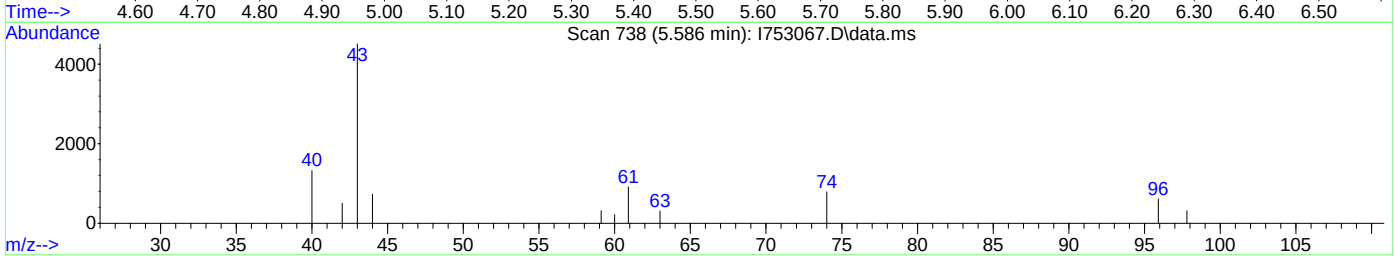
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Acetate	79-20-9		5.59	Poor instrument integration
Hexane	110-54-3		5.68	Overlapping peak
Vinyl Acetate	108-05-4		6.72	Poor instrument integration
Ethyl Acetate	141-78-6		7.41	Poor instrument integration
3,3-Dimethyl-1-Butanol	624-95-3		11.12	Overlapping peak
Benzyl Chloride	100-44-7		14.16	Missed peak

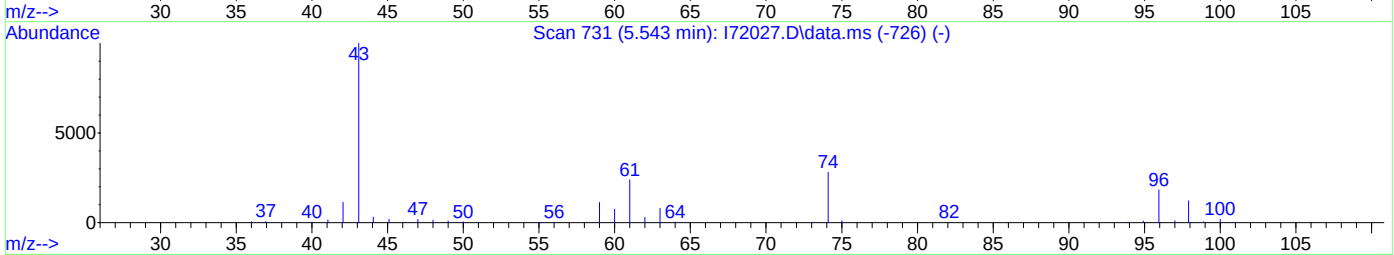
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753067.D
Acq On : 30 Nov 2022 10:36 am
Operator : kylieg
Sample : IC2765-1
Misc : MS52729,VI2765,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 13:44:18 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753067.D\data.ms

(20) Methyl acetate

5.586min (+0.037) 3.17ug/L

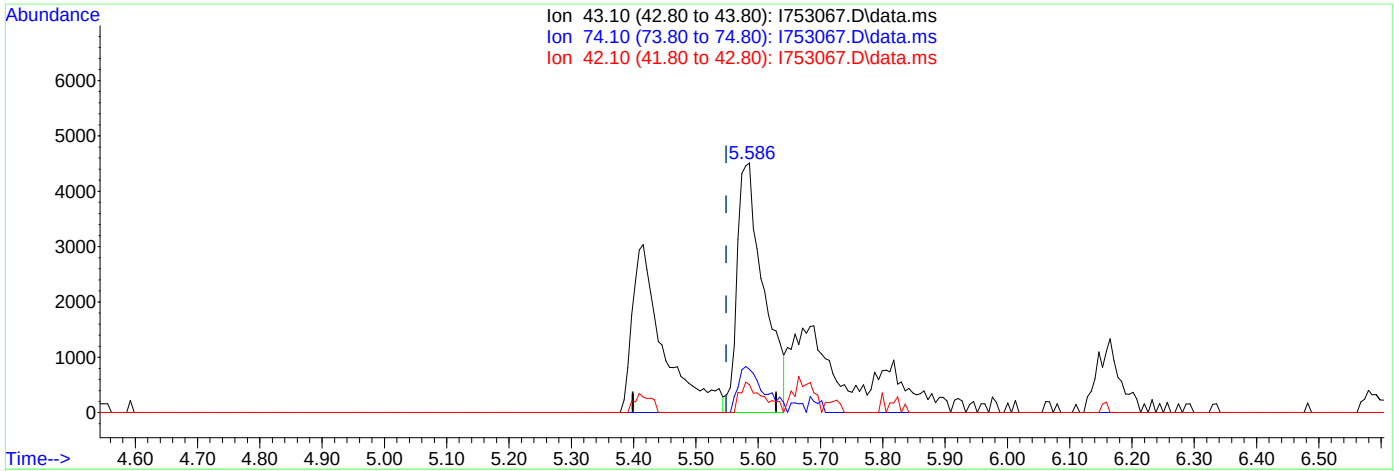
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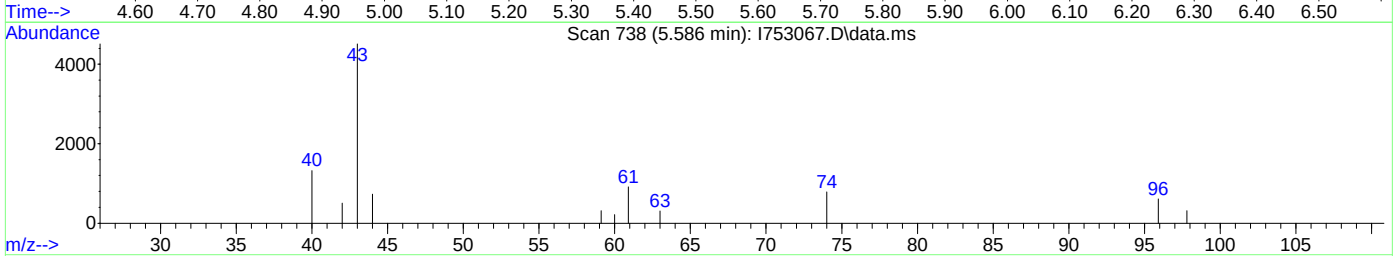
Ion	Exp%	Act%
43.10	100	100
74.10	20.40	18.51
42.10	10.70	11.89
0.00	0.00	0.00

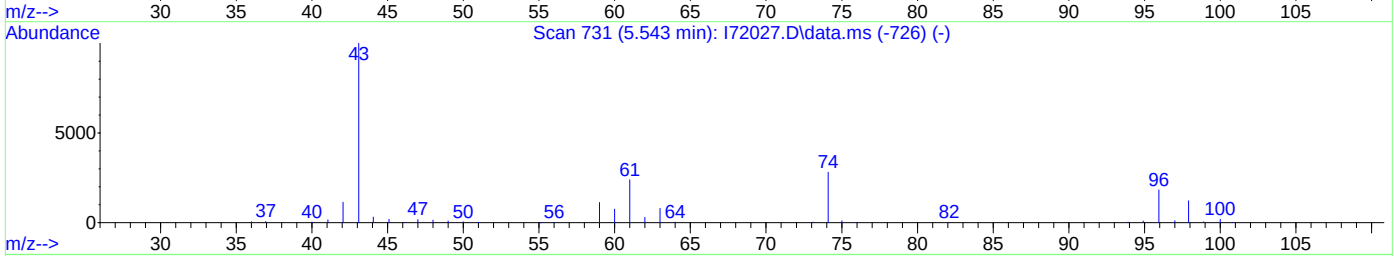
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753067.D
Acq On : 30 Nov 2022 10:36 am
Operator : kylieg
Sample : IC2765-1
Misc : MS52729,VI2765,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 13:44:18 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753067.D\data.ms

(20) Methyl acetate

5.586min (+0.037) 4.75ug/L m

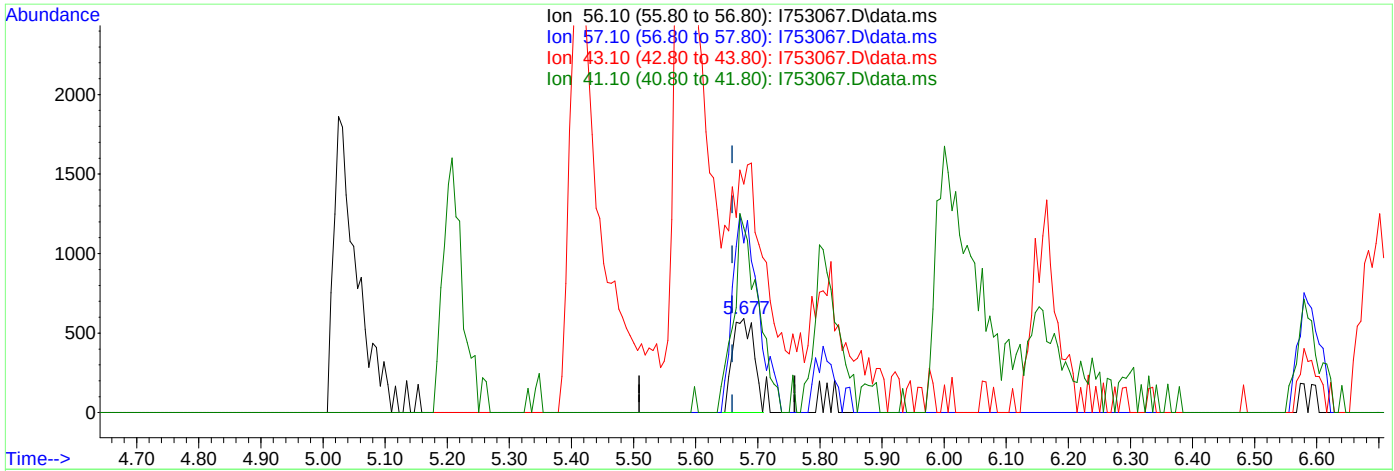
response 13313

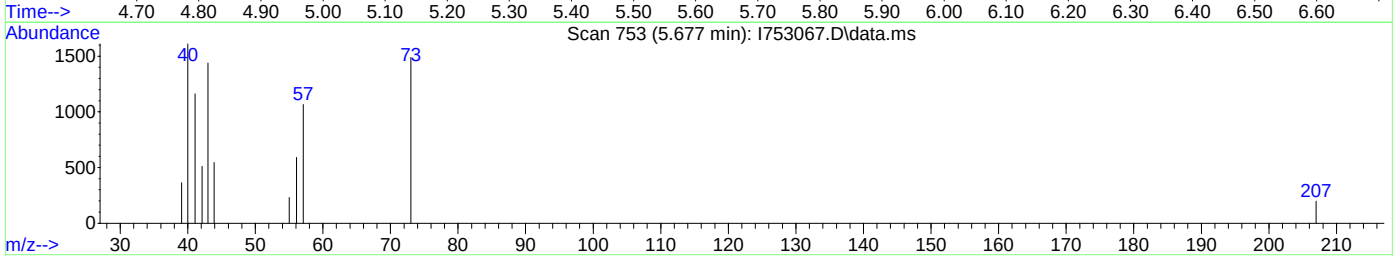
Ion	Exp%	Act%
43.10	100	100
74.10	20.40	17.35
42.10	10.70	11.15
0.00	0.00	0.00

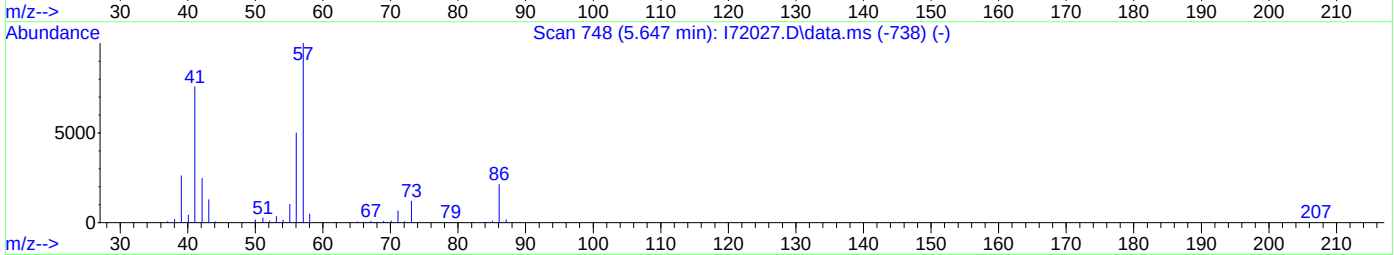
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753067.D
Acq On : 30 Nov 2022 10:36 am
Operator : kylieg
Sample : IC2765-1
Misc : MS52729,VI2765,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 13:44:18 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753067.D\data.ms

(22) Hexane

5.677min (+0.018) 1.00ug/L

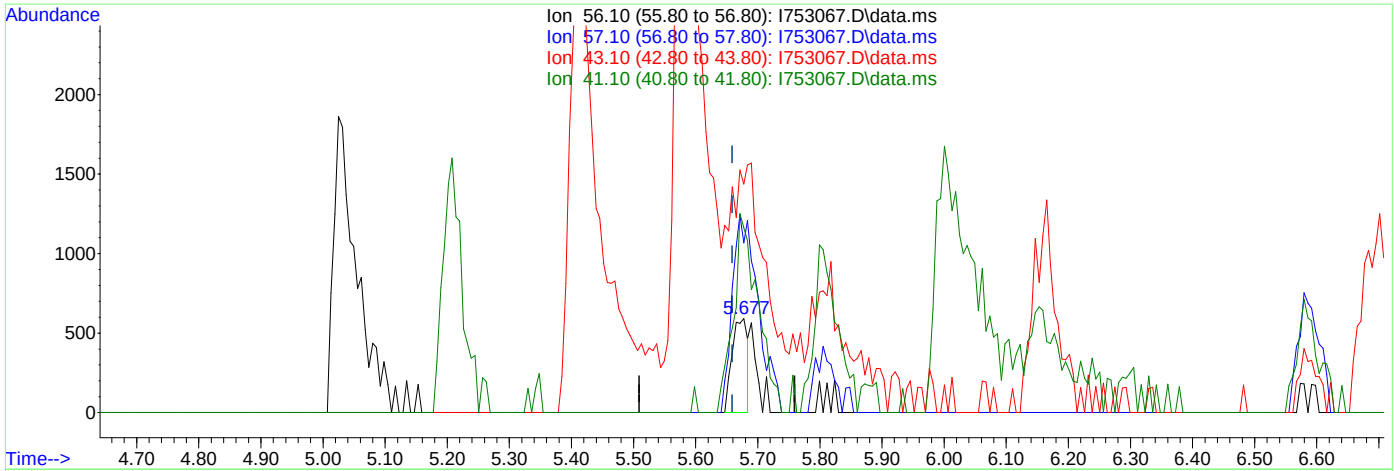
response 1418

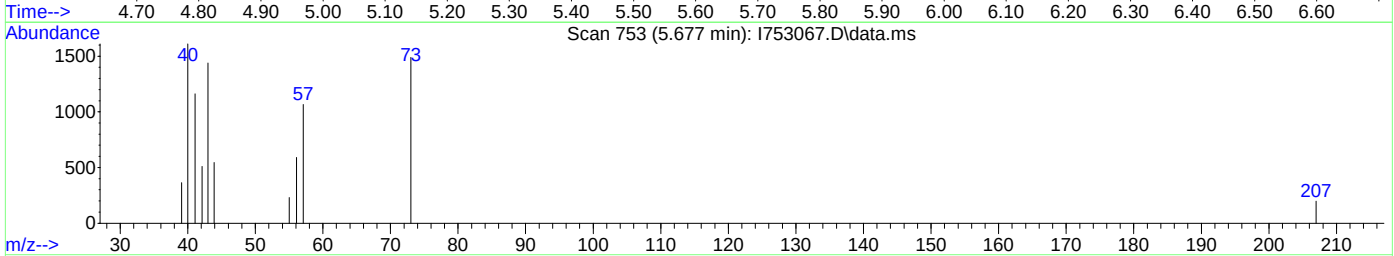
Ion	Exp%	Act%
56.10	100	100
57.10	202.70	180.54
43.10	151.20	78.00#
41.10	159.40	168.87

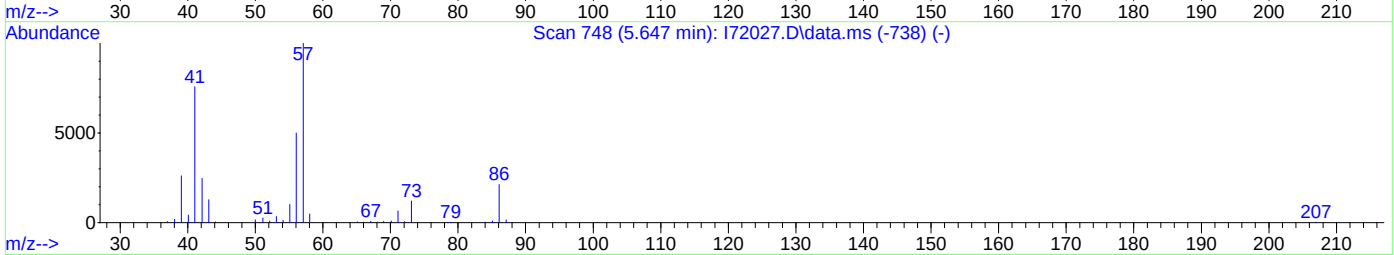
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753067.D
Acq On : 30 Nov 2022 10:36 am
Operator : kylieg
Sample : IC2765-1
Misc : MS52729,VI2765,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 13:44:18 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753067.D\data.ms

(22) Hexane

5.677min (+0.018) 0.72ug/L m

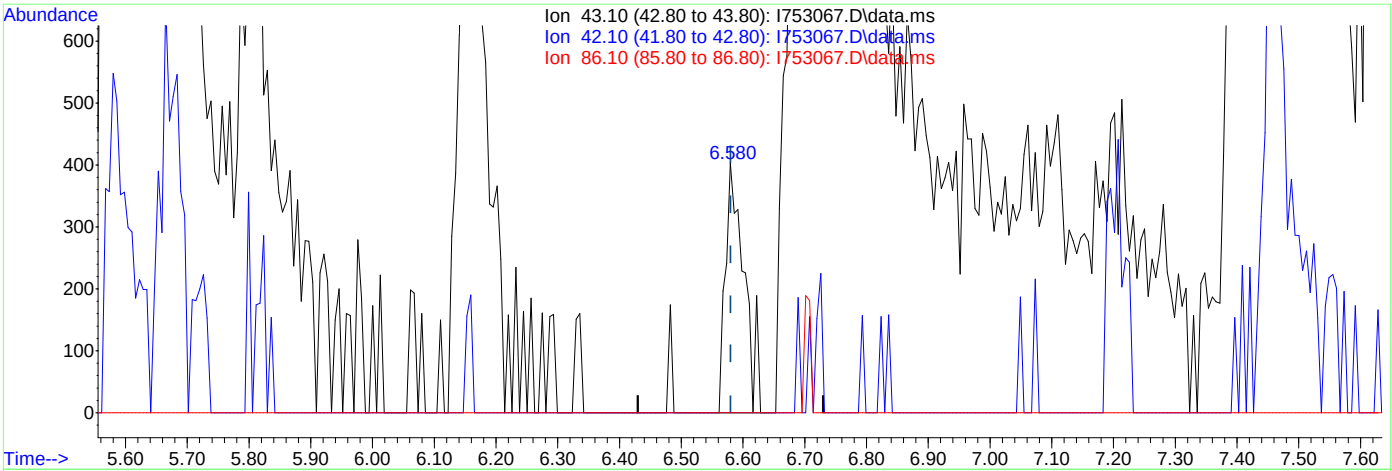
response 1020

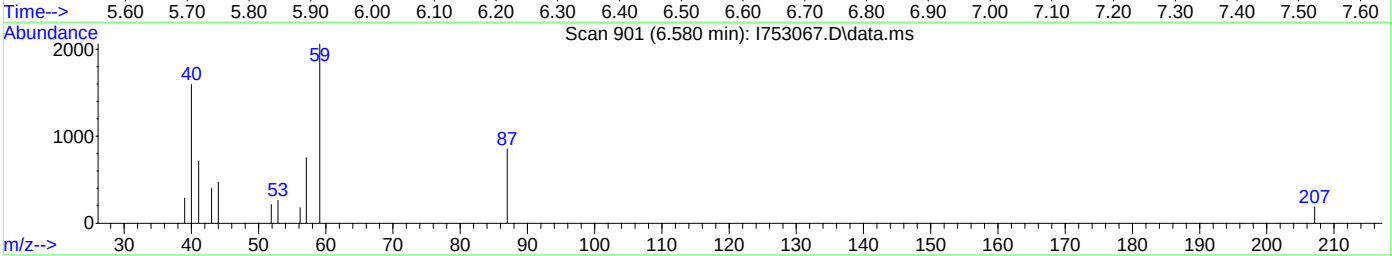
Ion	Exp%	Act%
56.10	100	100
57.10	202.70	180.54
43.10	151.20	243.32#
41.10	159.40	196.79#

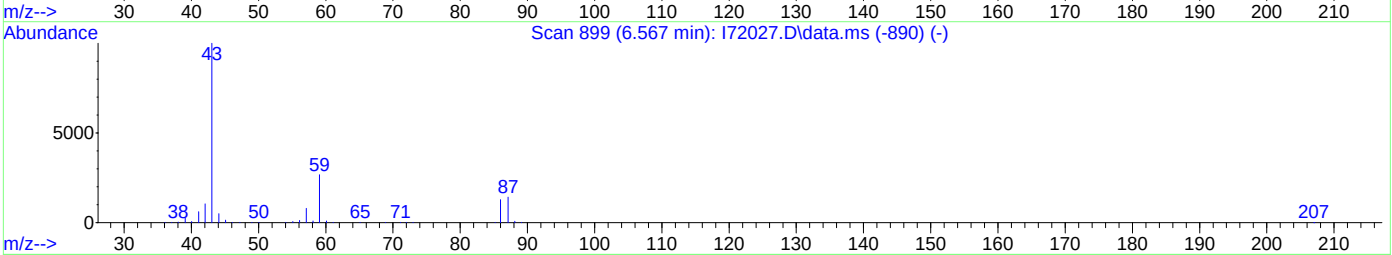
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753067.D
Acq On : 30 Nov 2022 10:36 am
Operator : kylieg
Sample : IC2765-1
Misc : MS52729,VI2765,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 13:44:18 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753067.D\data.ms

(31) Vinyl acetate

6.580min (-0.000) 0.20ug/L

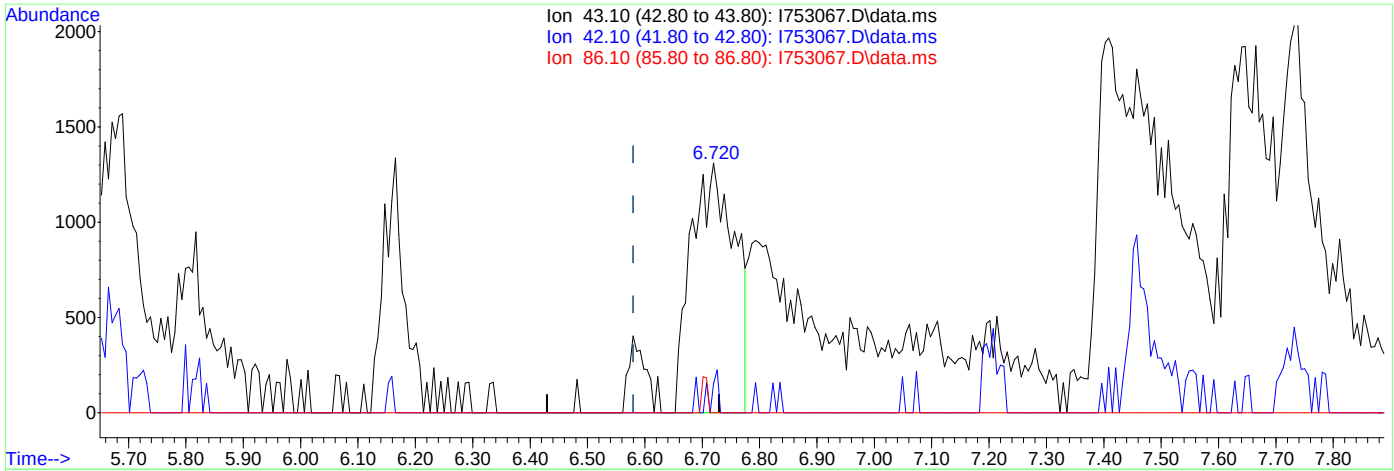
response 845

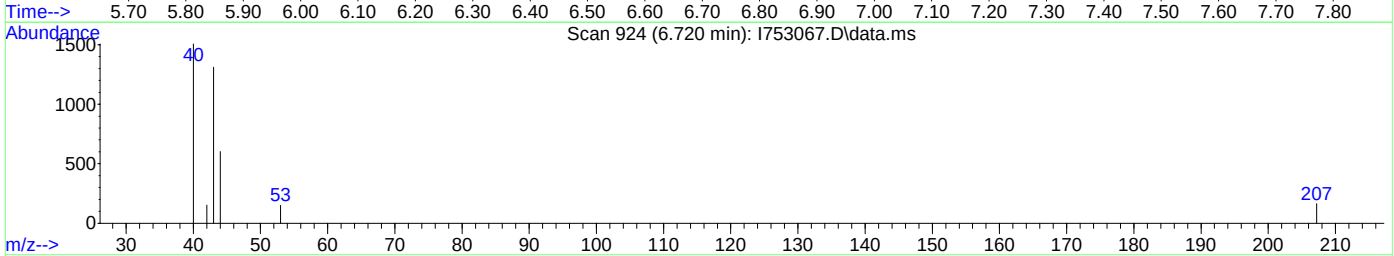
Ion	Exp%	Act%
43.10	100	100
42.10	9.60	0.00
86.10	8.40	0.00
0.00	0.00	0.00

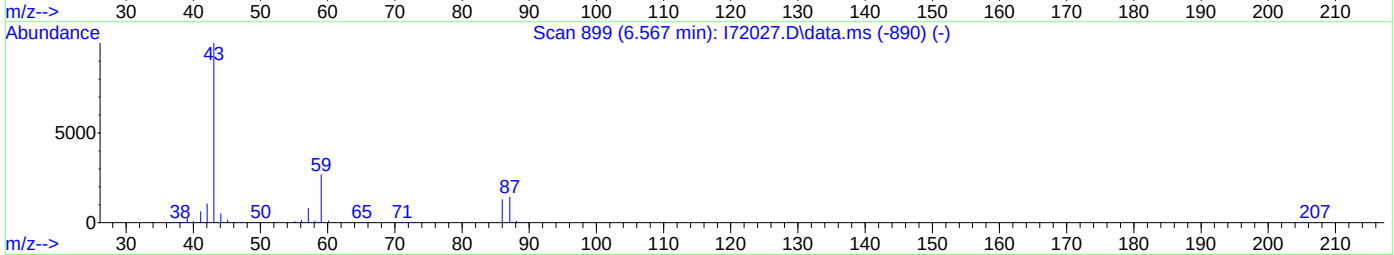
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753067.D
Acq On : 30 Nov 2022 10:36 am
Operator : kylieg
Sample : IC2765-1
Misc : MS52729,VI2765,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 13:44:18 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753067.D\data.ms

(31) Vinyl acetate

6.720min (+0.140) 1.59ug/L m

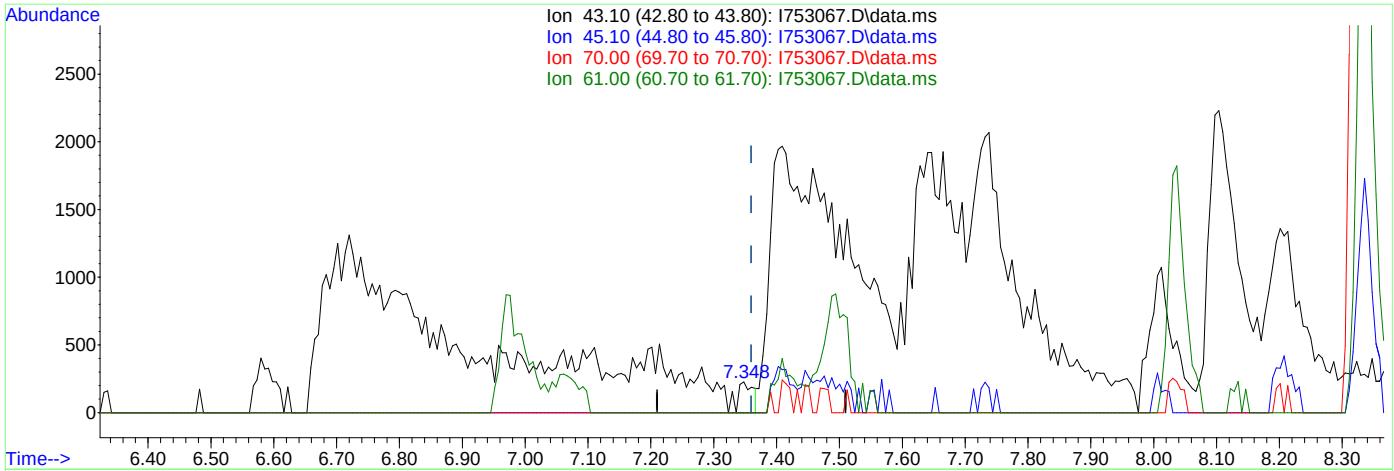
response 6873

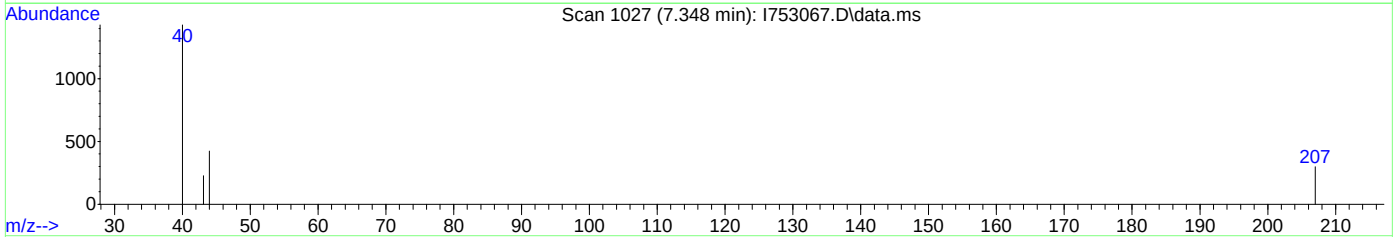
Ion	Exp%	Act%
43.10	100	100
42.10	9.60	11.59
86.10	8.40	0.00
0.00	0.00	0.00

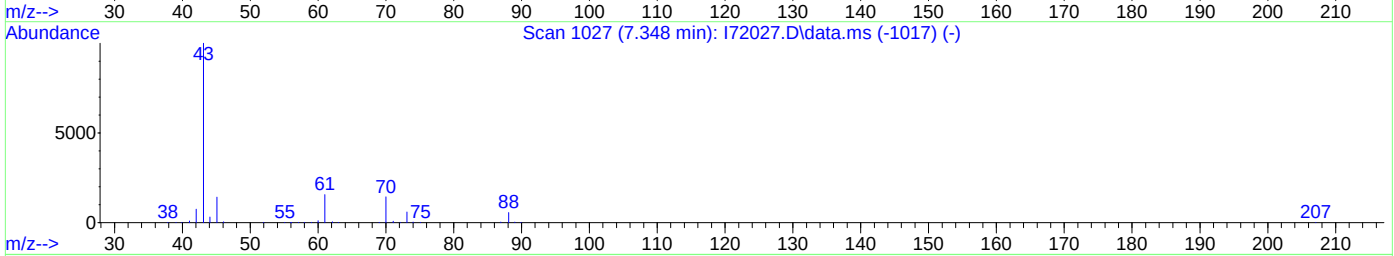
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753067.D
Acq On : 30 Nov 2022 10:36 am
Operator : kylieg
Sample : IC2765-1
Misc : MS52729,VI2765,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 13:44:18 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753067.D\data.ms

(37) Ethyl acetate

7.348min (-0.012) 0.11ug/L

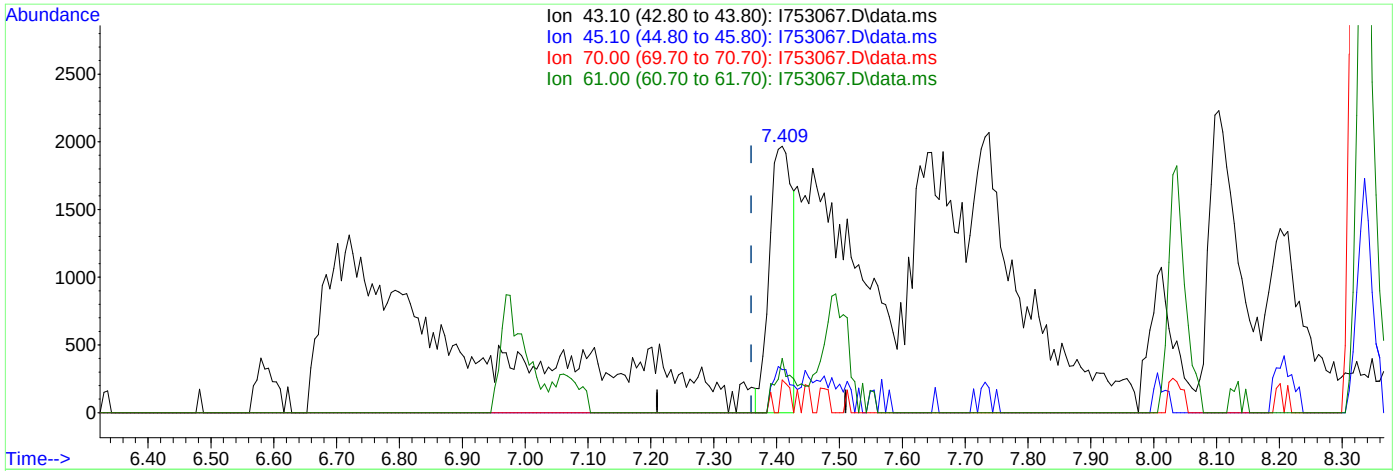
response 412

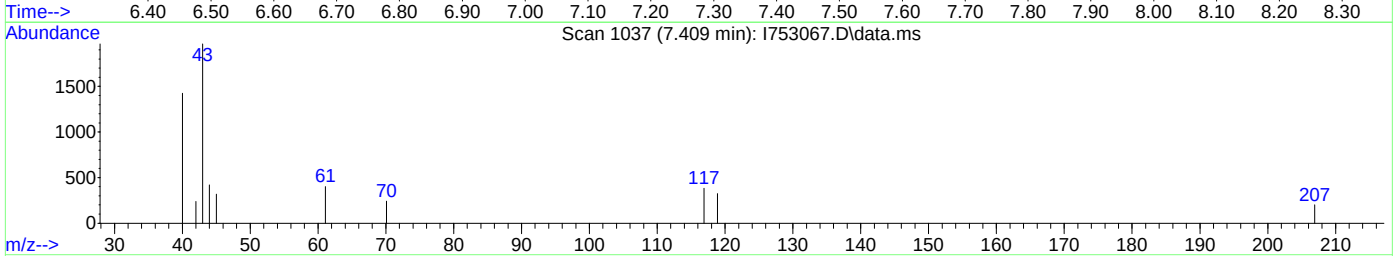
Ion	Exp%	Act%
43.10	100	100
45.10	14.30	0.00
70.00	10.30	0.00
61.00	13.80	0.00

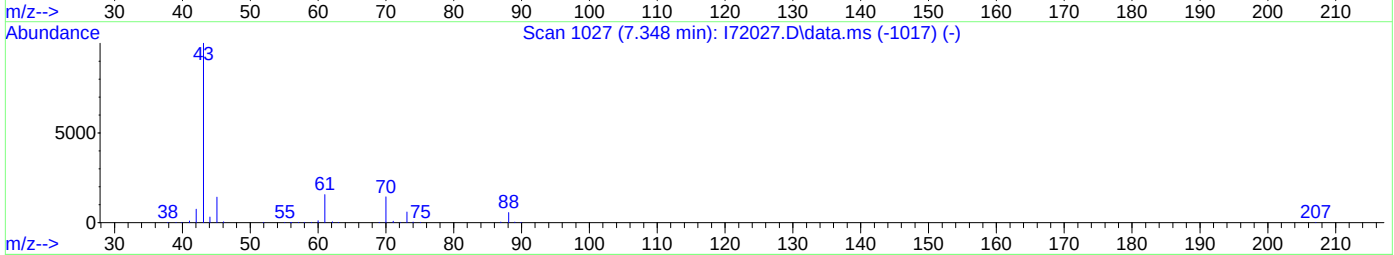
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753067.D
Acq On : 30 Nov 2022 10:36 am
Operator : kylieg
Sample : IC2765-1
Misc : MS52729,VI2765,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 13:44:18 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753067.D\data.ms

(37) Ethyl acetate

7.409min (+0.049) 1.39ug/L m

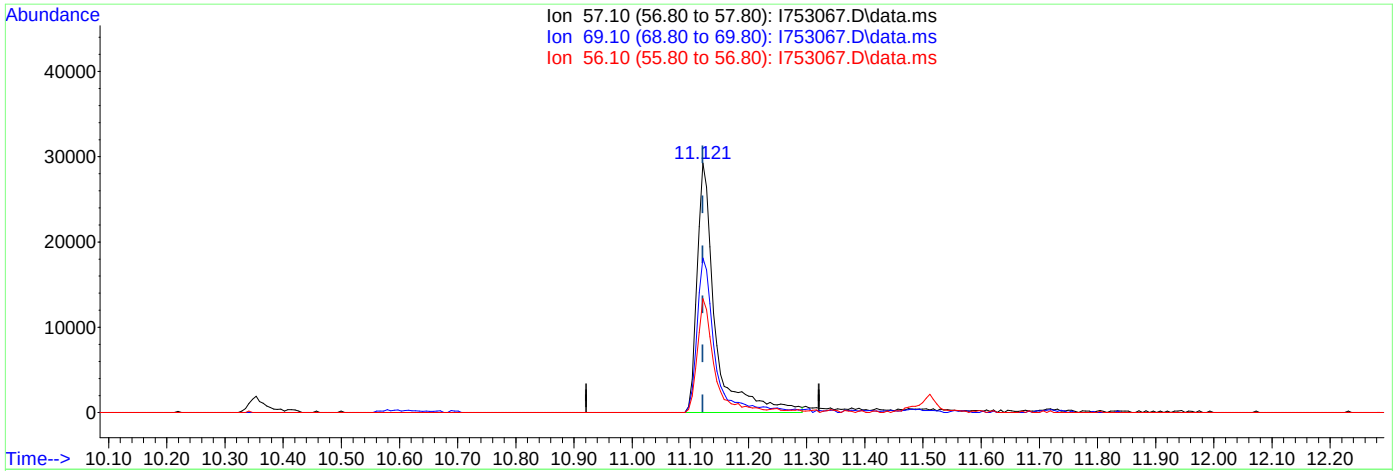
response 4993

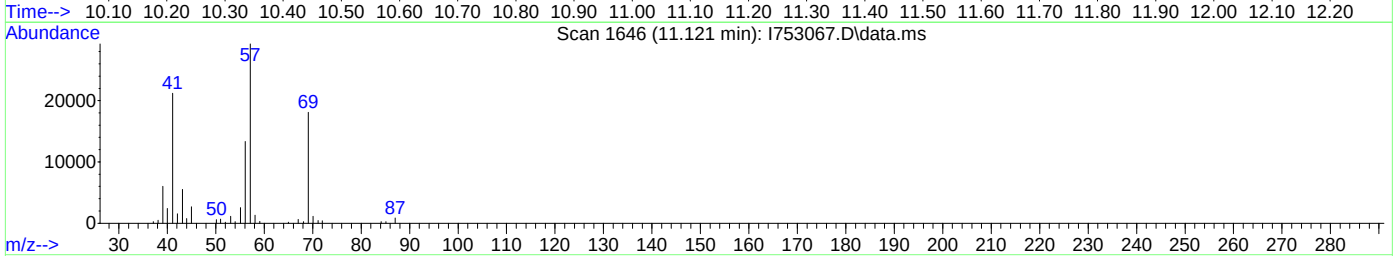
Ion	Exp%	Act%
43.10	100	100
45.10	14.30	16.17
70.00	10.30	12.30
61.00	13.80	20.34

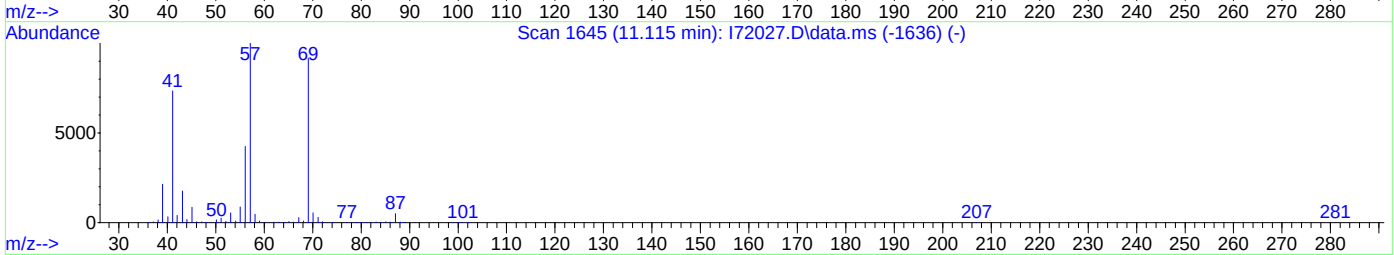
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753067.D
Acq On : 30 Nov 2022 10:36 am
Operator : kylieg
Sample : IC2765-1
Misc : MS52729,VI2765,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 13:44:18 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753067.D\data.ms

(74) 3,3-dimethyl-1-butanol

11.121min (+0.000) 67.63ug/L

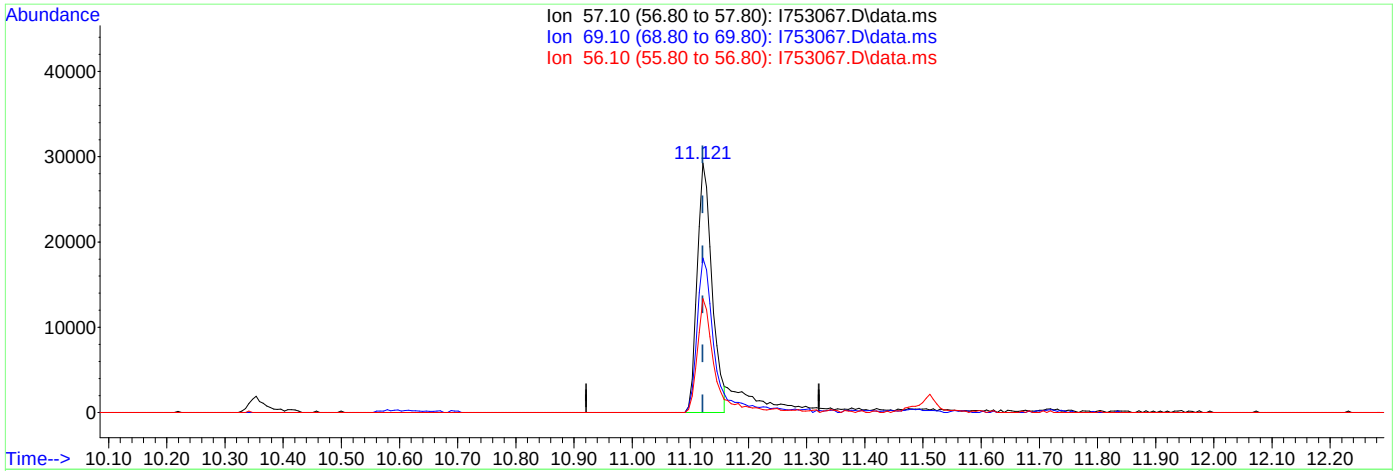
response 63467

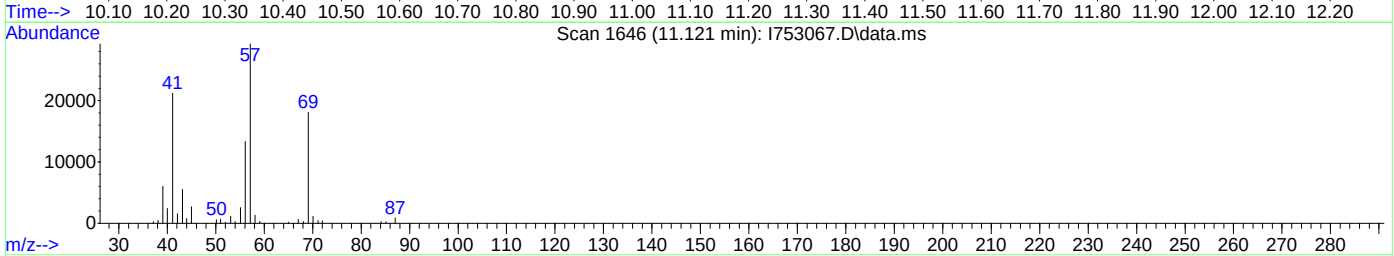
Ion	Exp%	Act%
57.10	100	100
69.10	68.80	61.85
56.10	44.10	45.58
0.00	0.00	0.00

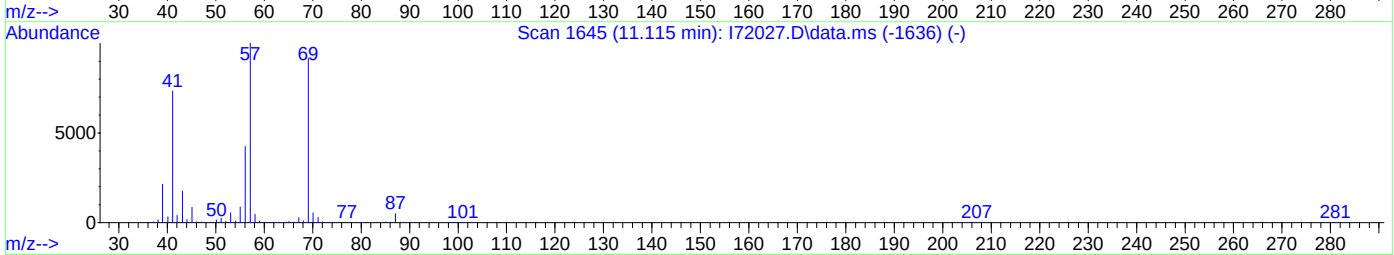
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753067.D
Acq On : 30 Nov 2022 10:36 am
Operator : kylieg
Sample : IC2765-1
Misc : MS52729,VI2765,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 13:44:18 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753067.D\data.ms

(74) 3,3-dimethyl-1-butanol

11.121min (+0.000) 55.03ug/L m

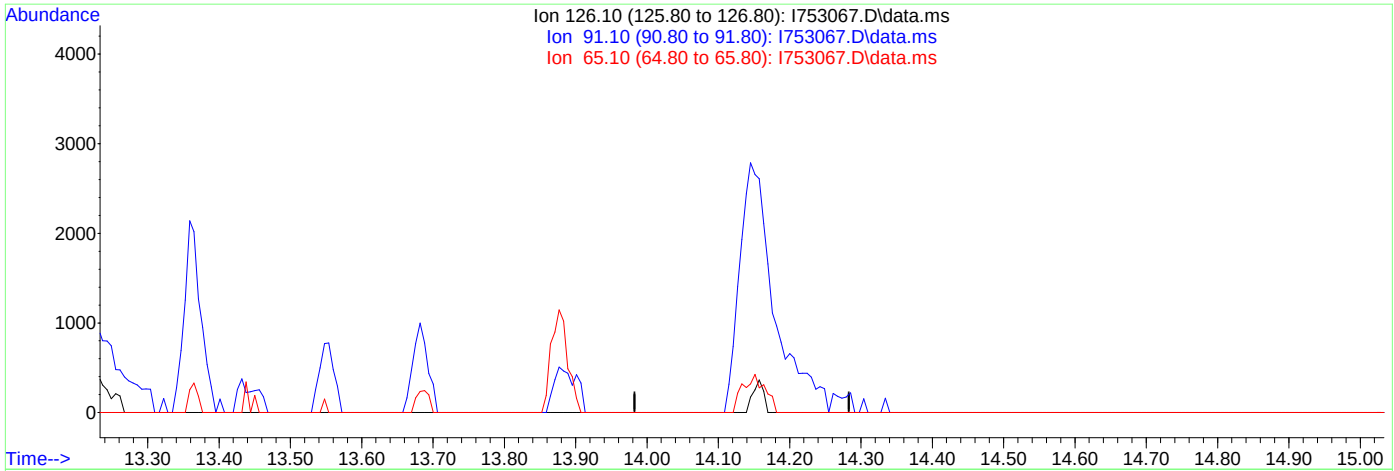
response 51639

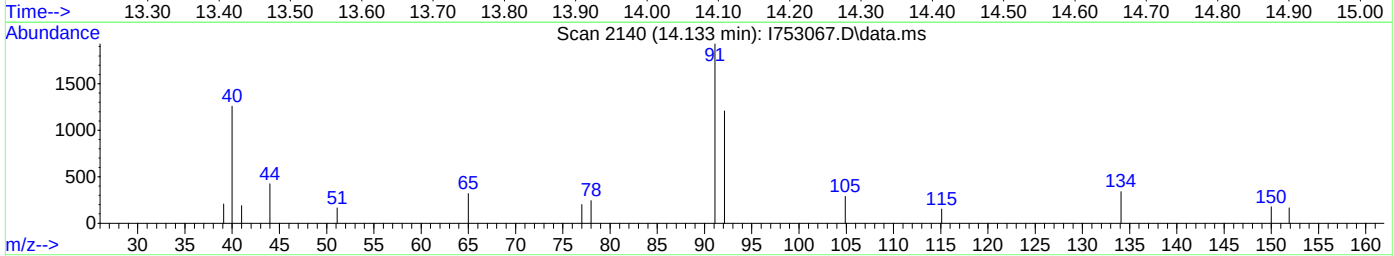
Ion	Exp%	Act%
57.10	100	100
69.10	68.80	61.85
56.10	44.10	45.58
0.00	0.00	0.00

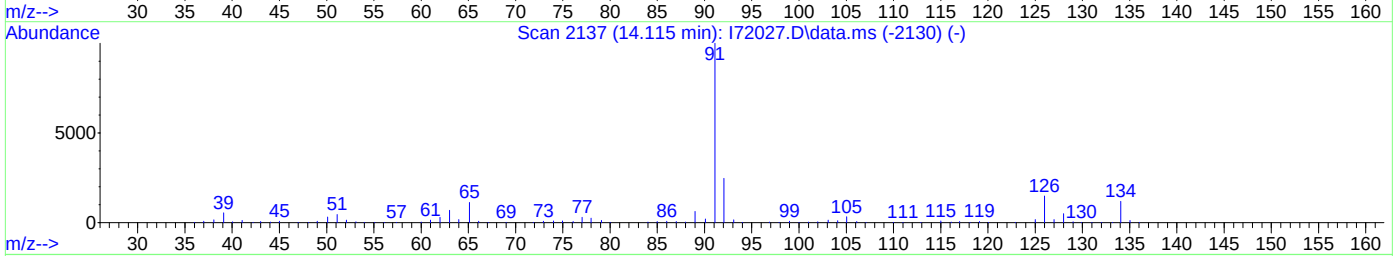
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753067.D
Acq On : 30 Nov 2022 10:36 am
Operator : kylieg
Sample : IC2765-1
Misc : MS52729,VI2765,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 13:44:18 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753067.D\data.ms

(106) Benzyl Chloride

14.133min (-14.133) 0.00ug/L

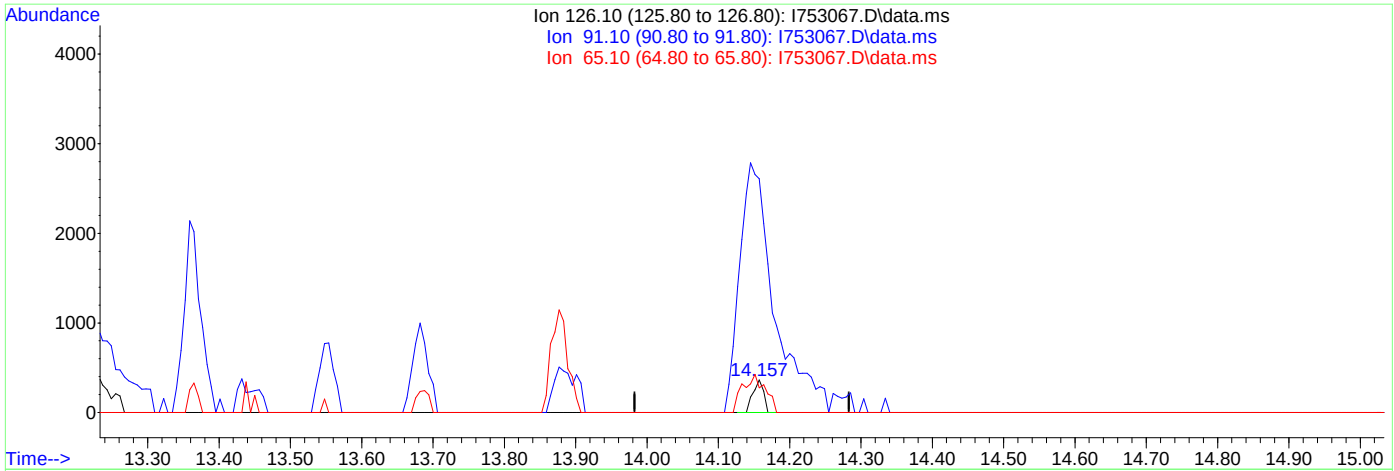
response 0

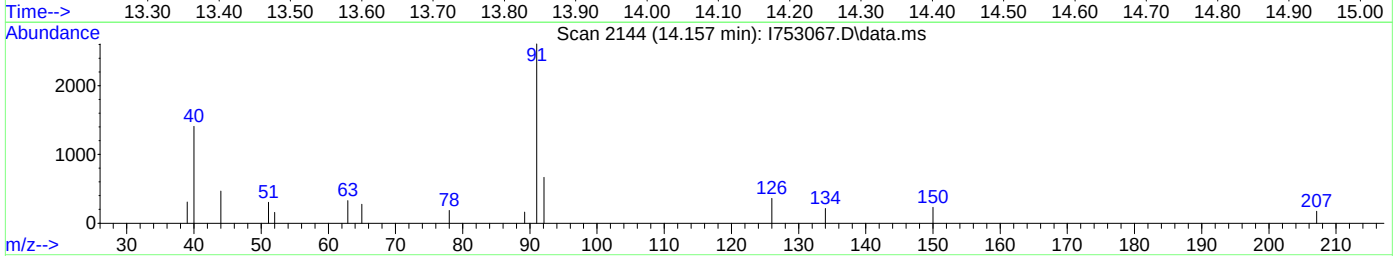
Ion	Exp%	Act%
126.10	100	0.00
91.10	691.80	0.00#
65.10	87.30	0.00#
0.00	0.00	0.00

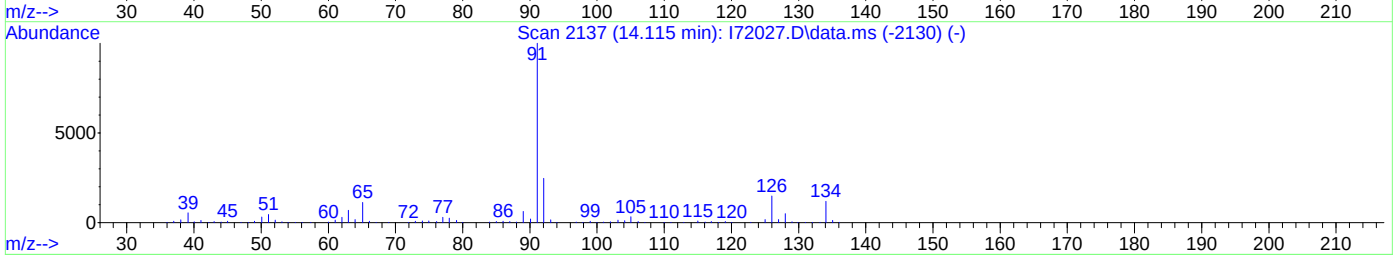
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753067.D
Acq On : 30 Nov 2022 10:36 am
Operator : kylieg
Sample : IC2765-1
Misc : MS52729,VI2765,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 30 13:44:18 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753067.D\data.ms

(106) Benzyl Chloride

14.157min (+0.024) 0.32ug/L m

response 376

Ion	Exp%	Act%
126.10	100	100
91.10	691.80	719.01
65.10	87.30	76.31
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 12/01/22 18:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753068.D
Acq On : 30 Nov 2022 11:34 am
Operator : kylieg
Sample : IC2765-2
Misc : MS52729,VI2765,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 30 13:52:15 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.329	96	513568	50.00	ug/L	0.00
62) Chlorobenzene-d5	11.512	117	366819	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.877	152	172987	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.445	113	136143	47.87	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	95.74%		
49) 1,2-Dichloroethane-d4	8.031	65	160101	51.03	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery =	102.06%		
63) Toluene-d8	9.945	98	507393	50.12	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery =	100.24%		
86) 4-Bromofluorobenzene	12.725	174	144787	49.52	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	99.04%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.385	85	13138	4.86	ug/L	100
3) Chloromethane	2.709	50	15531	6.61	ug/L	95
4) Vinyl Chloride	2.861	62	13690	5.99	ug/L	99
5) 1,3-Butadiene	2.898	39	14671	6.08	ug/L	99
6) Bromomethane	3.385	94	5960	7.64	ug/L	97
7) Chloroethane	3.580	64	8071	7.96	ug/L	82
8) Trichlorofluoromethane	3.812	101	17304	5.36	ug/L	99
9) Ethyl Ether	4.294	59	10100	5.83	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.550	67	13049	5.03	ug/L	97
11) 1,1-Dichloroethene	4.556	61	16866	5.22	ug/L	96
12) Ethanol	4.507	45	10120	116.68	ug/L	96
13) Freon 113	4.617	101	9246	4.39	ug/L	97
14) Carbon Disulfide	4.605	76	30534	5.16	ug/L	97
15) Iodomethane	4.751	142	3889	3.22	ug/L	78
16) Acrolein	5.019	56	19122	26.89	ug/L	99
17) Allyl chloride	5.196	41	16567	5.75	ug/L	96
18) Methylene Chloride	5.330	49	20909	5.93	ug/L	88
19) Acetone	5.391	43	42044	27.31	ug/L	98
20) Methyl acetate	5.556	43	79762m	28.67	ug/L	
21) trans-1,2-Dichloroethene	5.556	61	16386	5.50	ug/L	94
22) Hexane	5.659	56	6285m	4.48	ug/L	
23) Methyl Tert Butyl Ether	5.684	73	29794	4.88	ug/L	90
24) Tert butyl alcohol	5.793	59	46717	43.68	ug/L	94
25) Acetonitrile	5.964	41	35636	57.47	ug/L	94
26) Di-isopropyl ether	6.147	45	34443	5.21	ug/L	93
27) Chloroprene	6.281	53	13532	4.41	ug/L	98
28) 1,1-Dichloroethane	6.293	63	20736	5.49	ug/L	98
29) Acrylonitrile	6.360	53	29879	23.08	ug/L	96
30) ETBE	6.574	59	33037	4.98	ug/L	97
31) Vinyl acetate	6.598	43	85513	19.95	ug/L	97
32) cis-1,2-Dichloroethene	6.952	96	9967	4.76	ug/L	96
33) 2,2-Dichloropropane	7.061	77	16710	4.87	ug/L	95
34) Bromochloromethane	7.183	128	4743	5.36	ug/L	91
35) Cyclohexane	7.195	56	16383	4.72	ug/L	95
36) Chloroform	7.250	83	19144	4.86	ug/L	96
37) Ethyl acetate	7.366	43	90018	25.11	ug/L	97
38) Tetrahydrofuran	7.445	42	9951	5.47	ug/L	94
40) Carbon Tetrachloride	7.427	117	14102	4.41	ug/L	94
41) 1,1,1-Trichloroethane	7.494	97	17318	4.88	ug/L	98
42) 2-Butanone	7.580	43	48371	20.96	ug/L	97
43) 1,1-Dichloropropene	7.641	75	14089	4.91	ug/L	93
44) tert-Butyl Formate	7.726	59	51480	33.23	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753068.D
Acq On : 30 Nov 2022 11:34 am
Operator : kylieg
Sample : IC2765-2
Misc : MS52729,VI2765,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 30 13:52:15 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	7.890	54	37161	49.48	ug/L		83
46) Methacrylonitrile	7.915	41	124364	55.46	ug/L		98
47) Benzene	7.903	78	41020	5.16	ug/L		97
48) TAME	8.006	73	27214	4.75	ug/L		97
50) Isobutyl alcohol	8.079	42	20054	84.03	ug/L		98
51) 1,2-Dichloroethane	8.122	62	16373	5.16	ug/L		96
52) Tert Amyl Alcohol	8.189	59	40305	44.75	ug/L		95
53) Trichloroethene	8.537	95	11165	4.92	ug/L		92
54) Methylcyclohexane	8.537	83	11401	3.76	ug/L		93
55) Dibromomethane	8.982	93	6393	4.70	ug/L		87
56) 1,2-Dichloropropane	9.061	63	10867	5.30	ug/L		94
57) Bromodichloromethane	9.122	83	13203	4.57	ug/L		95
58) Methyl methacrylate	9.274	41	9514	3.98	ug/L		93
59) 1,4-Dioxane	9.317	88	5566	79.93	ug/L		91
60) 2-Chloroethyl vinyl ether	9.671	63	37784	21.82	ug/L		97
61) cis-1,3-Dichloropropene	9.756	75	13769	4.29	ug/L		94
64) Toluene	10.006	91	41692	4.77	ug/L		99
65) 2-Nitropropane	10.201	41	19274	13.79	ug/L	#	89
66) 4-Methyl-2-pentanone	10.335	43	106679	23.86	ug/L		94
67) trans-1,3-Dichloropropene	10.420	75	12160	4.36	ug/L		91
68) Tetrachloroethene	10.414	166	11433	4.84	ug/L		90
69) Ethyl methacrylate	10.530	69	10625	3.83	ug/L		95
70) 1,1,2-Trichloroethane	10.567	83	8244	4.93	ug/L		90
71) Dibromochloromethane	10.768	129	9926	4.22	ug/L		90
72) 1,3-Dichloropropane	10.847	76	15452	4.73	ug/L		97
73) 1,2-Dibromoethane	11.030	107	10587	4.99	ug/L		95
74) 3,3-dimethyl-1-butanol	11.122	57	176727	194.02	ug/L		97
75) 2-hexanone	11.170	43	83822	21.94	ug/L		96
76) 1-Chlorohexane	11.469	91	10635	4.02	ug/L		87
77) Ethylbenzene	11.536	91	45021	4.70	ug/L		99
78) Chlorobenzene	11.530	112	25825	4.72	ug/L		97
79) 1,1,1,2-Tetrachloroethane	11.579	131	8912	4.21	ug/L		87
80) m,p-Xylene	11.676	91	63257	8.37	ug/L		98
81) o-Xylene	12.115	91	32146	4.22	ug/L		96
82) Styrene	12.176	104	21800	4.13	ug/L		93
83) Bromoform	12.219	173	6546	3.55	ug/L		95
84) Isopropylbenzene	12.420	105	36763	4.04	ug/L		97
87) cis-1,4-Dichloro-2-butene	12.774	53	4199	3.95	ug/L	#	84
88) n-Propylbenzene	12.841	91	47440	4.68	ug/L		99
89) Bromobenzene	12.859	156	10509	4.91	ug/L		96
90) 1,1,2,2-Tetrachloroethane	12.902	83	16466	5.01	ug/L		98
91) 1,3,5-Trimethylbenzene	13.024	105	30435	4.23	ug/L		98
92) 2-Chlorotoluene	13.030	91	30744	4.45	ug/L		96
93) trans-1,4-Dichloro-2-B...	13.091	53	3945	3.57	ug/L		83
94) 1,2,3-Trichloropropane	13.054	110	4996	4.70	ug/L		93
95) Cyclohexanone	13.115	55	7115	22.28	ug/L		97
96) 4-Chlorotoluene	13.194	91	28216	4.60	ug/L		94
97) tert-Butylbenzene	13.359	91	17473	4.23	ug/L		93
98) 1,2,4-Trimethylbenzene	13.432	105	29063	4.19	ug/L		96
99) Pentachloroethane	13.408	167	5208	4.50	ug/L		87
100) sec-Butylbenzene	13.548	105	35418	4.39	ug/L		98
101) 4-Isopropyltoluene	13.676	119	28467	4.08	ug/L		97
102) 1,3-Dichlorobenzene	13.816	146	17939	4.78	ug/L		90
103) 1,2,3-Trimethylbenzene	13.889	105	30733	4.49	ug/L		94
104) 1,4-Dichlorobenzene	13.895	146	19932	4.91	ug/L		97
105) n-Butylbenzene	14.127	92	16249	4.22	ug/L		96
106) Benzyl Chloride	14.139	126	4394	3.92	ug/L		98
107) 1,2-Dichlorobenzene	14.334	146	17825	4.81	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753068.D
Acq On : 30 Nov 2022 11:34 am
Operator : kylieg
Sample : IC2765-2
Misc : MS52729,VI2765,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 30 13:52:15 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

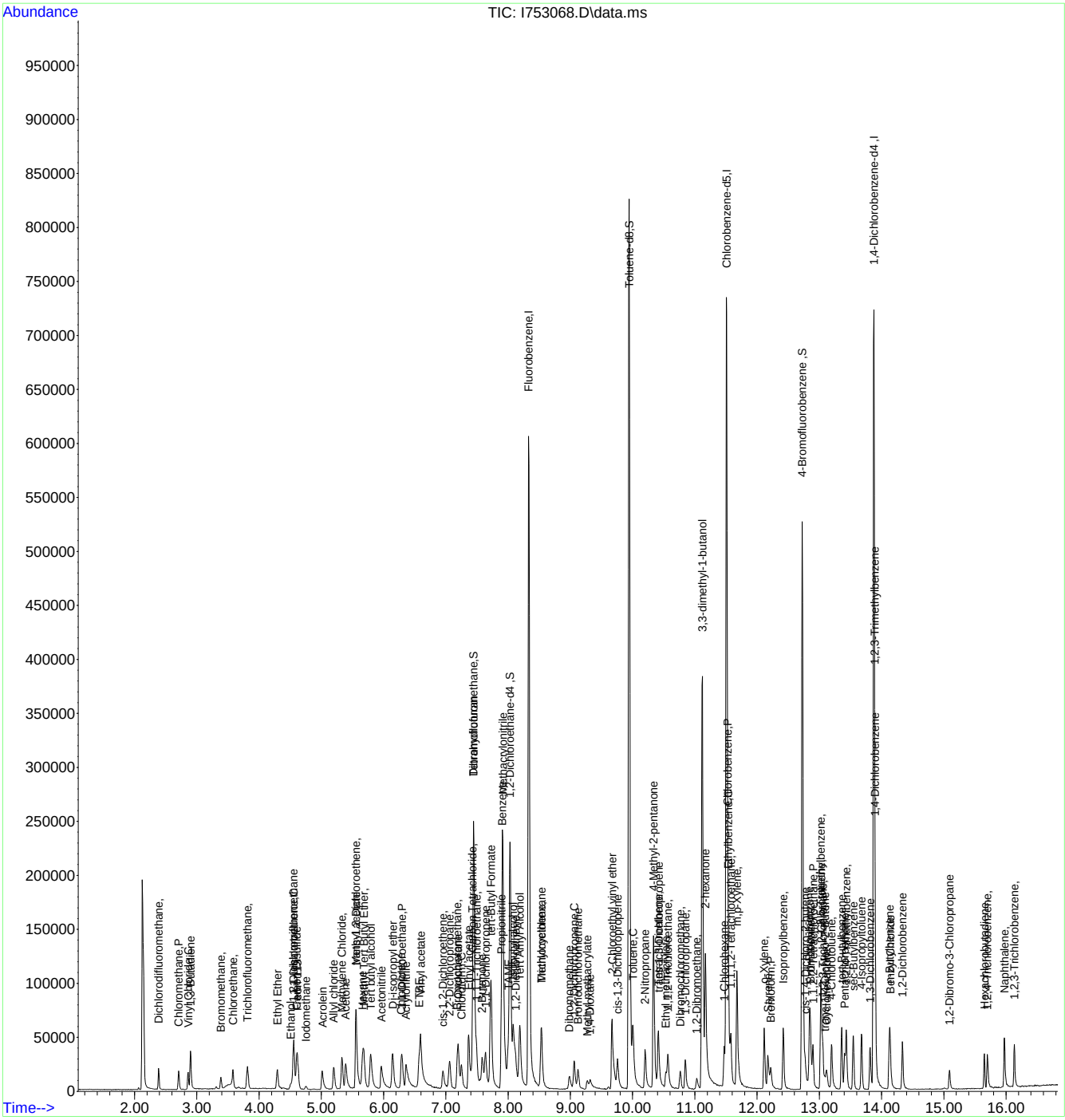
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	15.090	75	4373	4.25	ug/L	93
109) Hexachlorobutadiene	15.651	225	5215	4.65	ug/L	97
110) 1,2,4-Trichlorobenzene	15.700	180	10057	4.14	ug/L	92
111) Naphthalene	15.974	128	35872	3.92	ug/L	100
112) 1,2,3-Trichlorobenzene	16.133	180	10990	4.47	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753068.D
Acq On : 30 Nov 2022 11:34 am
Operator : kylieg
Sample : IC2765-2
Misc : MS52729,VI2765,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 30 13:52:15 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration



Manual Integration Approval Summary

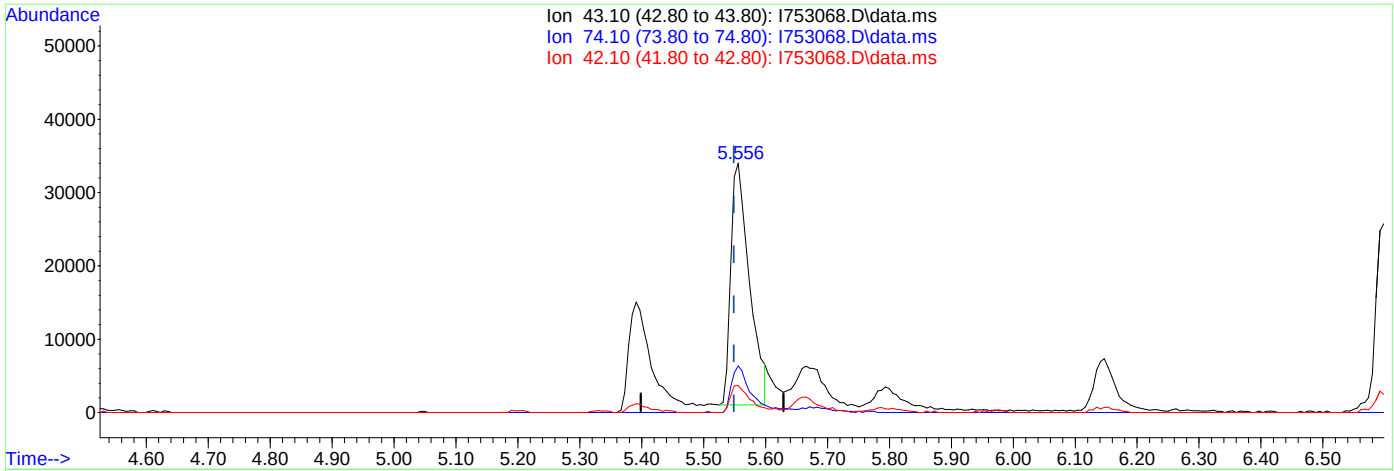
Sample Number: VI2765-IC2765
Lab FileID: I753068.D
Injection Time: 11/30/22 11:34
Method: SW846 8260D
Analyst approved: 11/30/22 14:46 Jo-Ann Lugo De Jesus
Supervisor approved: 12/01/22 18:35 Shanica O'Connor

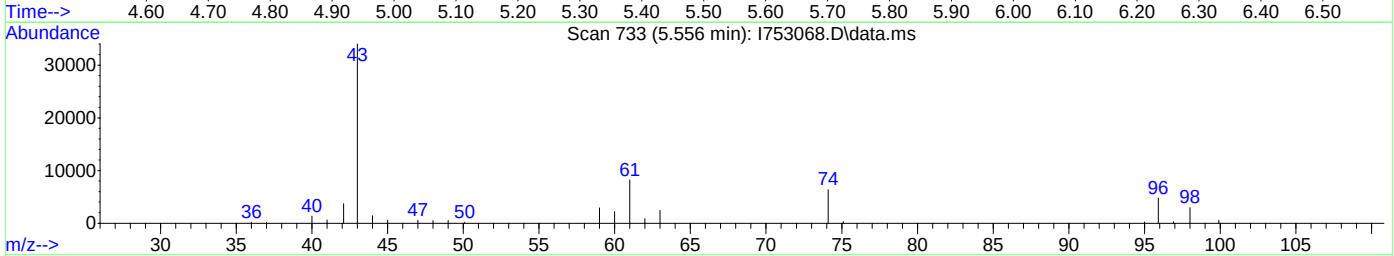
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Acetate	79-20-9		5.56	Poor instrument integration
Hexane	110-54-3		5.66	Overlapping peak

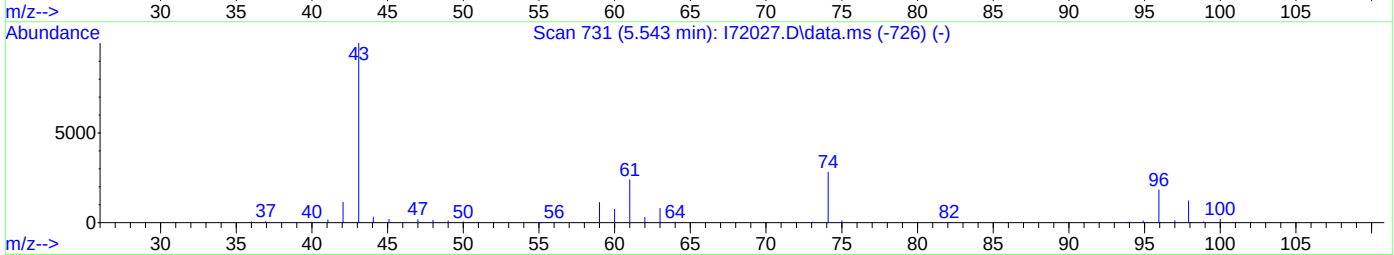
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753068.D
Acq On : 30 Nov 2022 11:34 am
Operator : kylieg
Sample : IC2765-2
Misc : MS52729,VI2765,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 30 13:44:20 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753068.D\data.ms

(20) Methyl acetate

5.556min (+0.007) 24.71ug/L

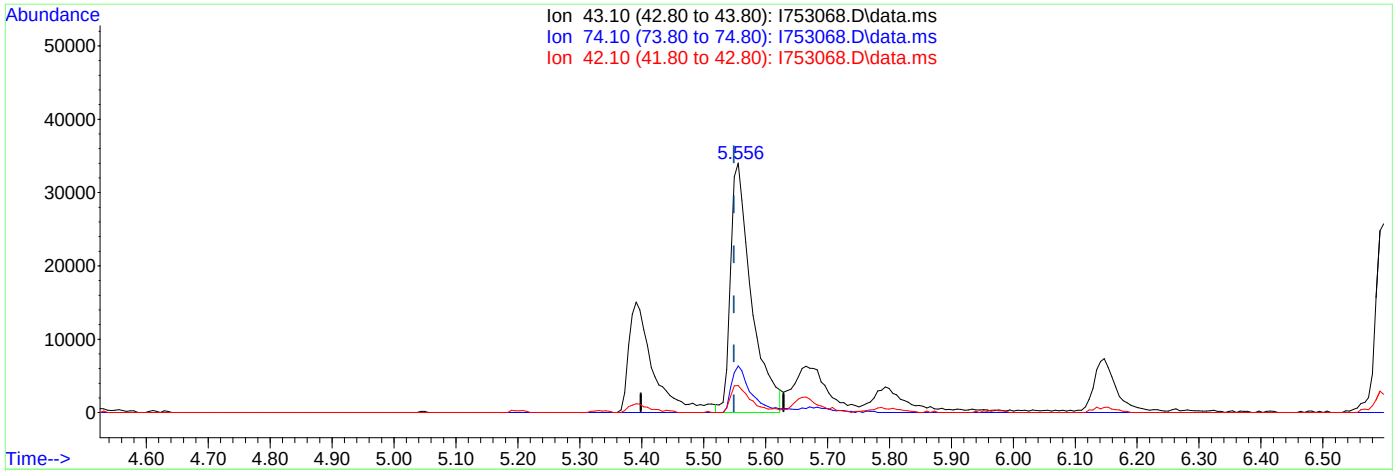
response 68748

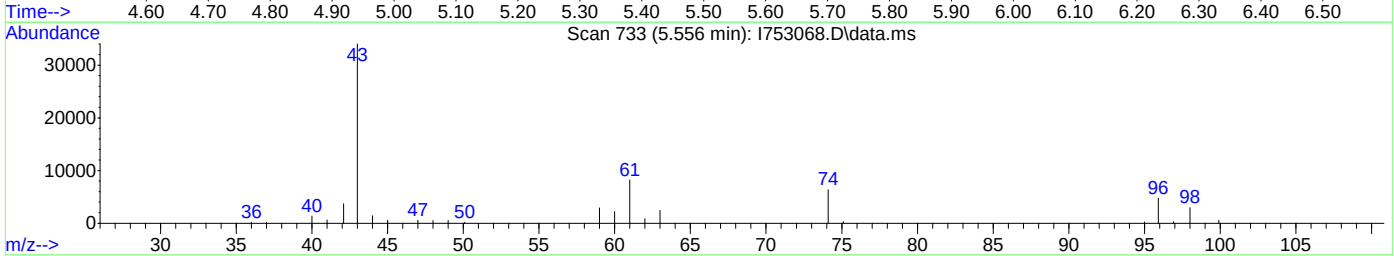
Ion	Exp%	Act%
43.10	100	100
74.10	20.40	19.27
42.10	10.70	11.18
0.00	0.00	0.00

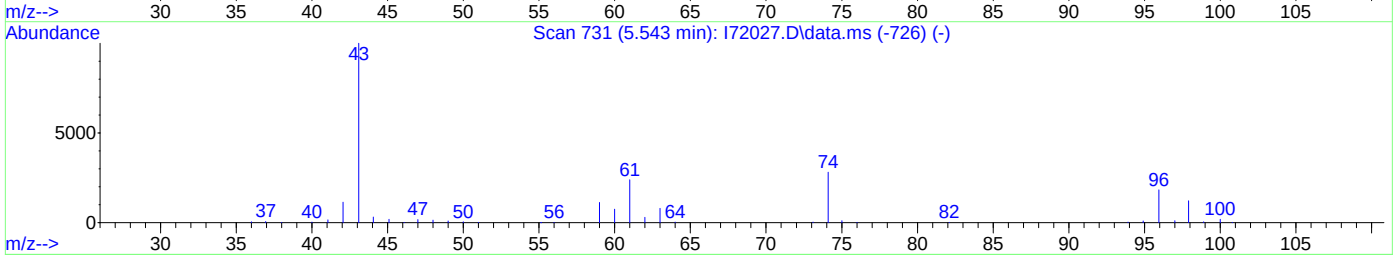
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753068.D
Acq On : 30 Nov 2022 11:34 am
Operator : kylieg
Sample : IC2765-2
Misc : MS52729,VI2765,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 30 13:44:20 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753068.D\data.ms

(20) Methyl acetate

5.556min (+0.007) 28.67ug/L m

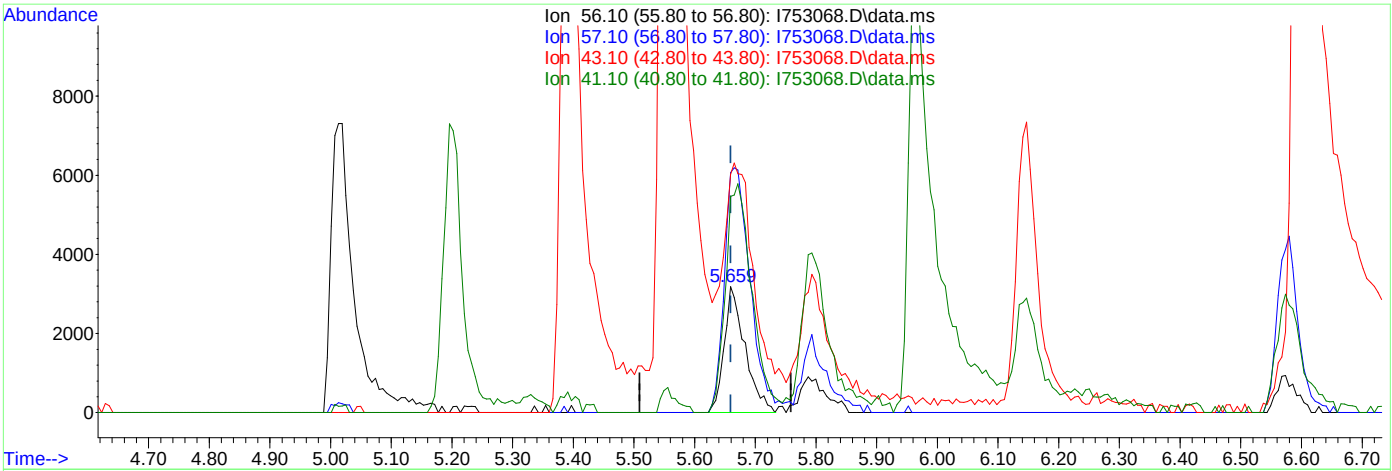
response 79762

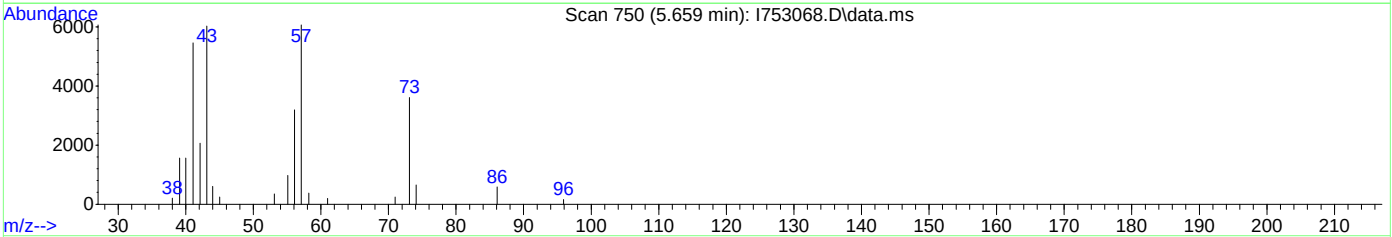
Ion	Exp%	Act%
43.10	100	100
74.10	20.40	18.67
42.10	10.70	10.83
0.00	0.00	0.00

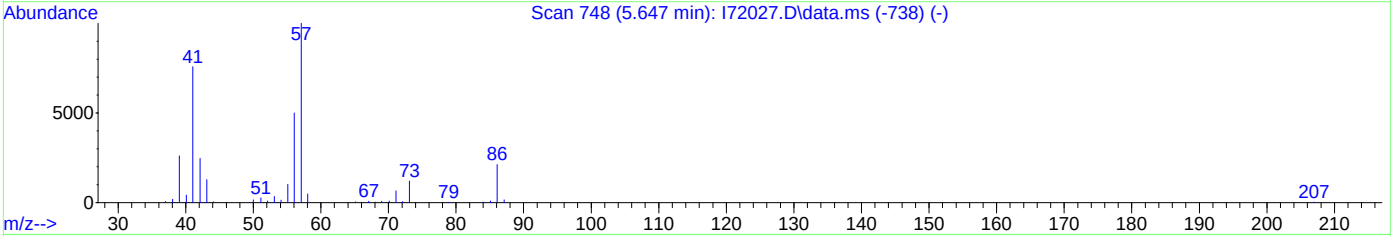
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753068.D
Acq On : 30 Nov 2022 11:34 am
Operator : kylieg
Sample : IC2765-2
Misc : MS52729,VI2765,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 30 13:44:20 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753068.D\data.ms

(22) Hexane

5.659min (+0.000) 5.45ug/L

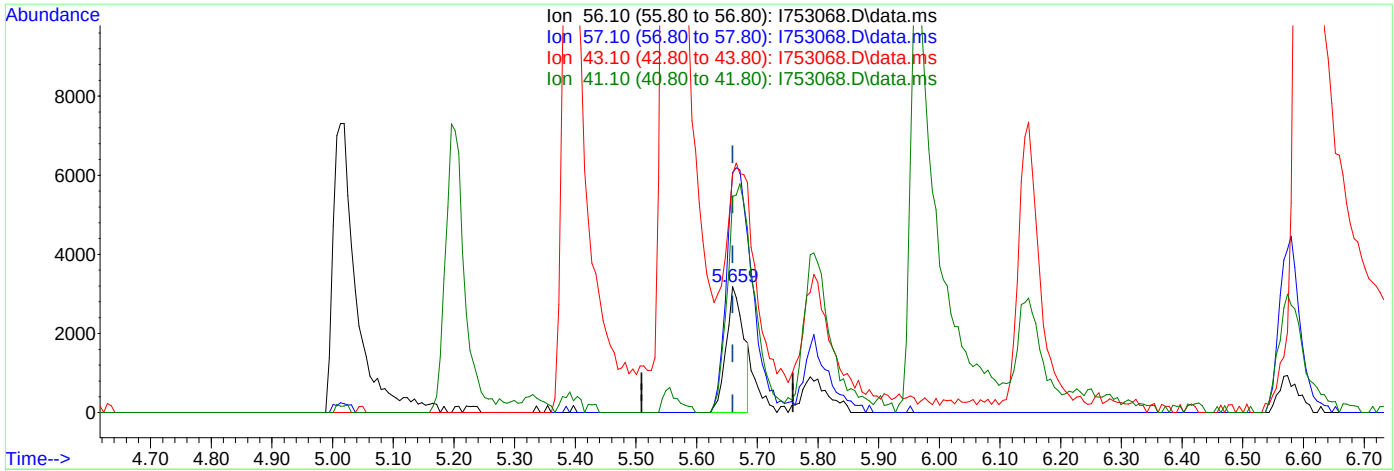
response 7630

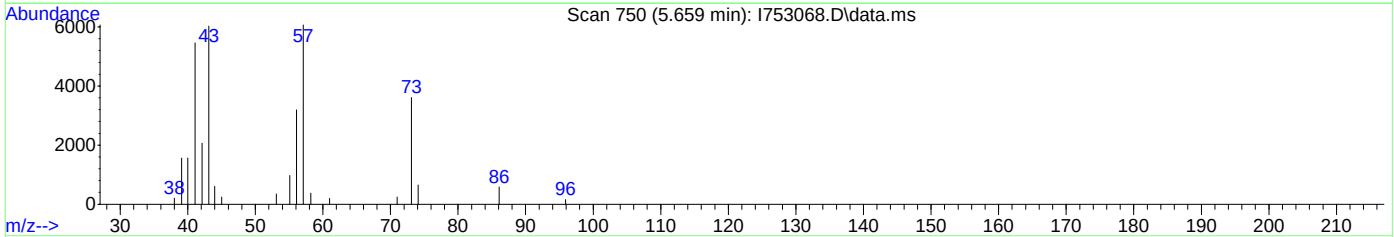
Ion	Exp%	Act%
56.10	100	100
57.10	202.70	190.43
43.10	151.20	158.19
41.10	159.40	171.36

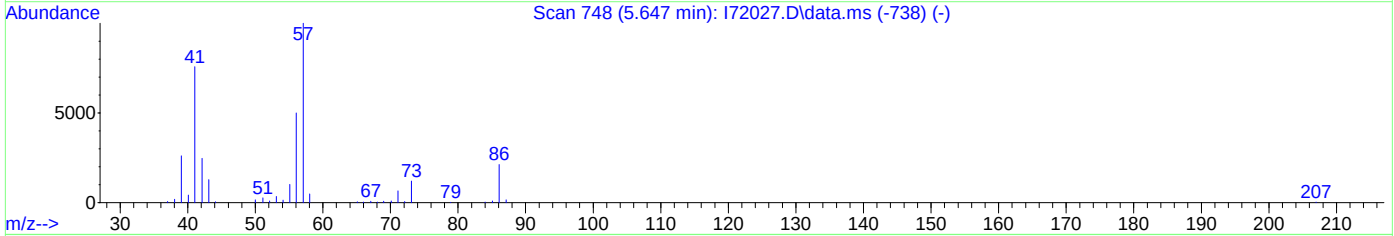
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753068.D
Acq On : 30 Nov 2022 11:34 am
Operator : kylieg
Sample : IC2765-2
Misc : MS52729,VI2765,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 30 13:44:20 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753068.D\data.ms

(22) Hexane

5.659min (+0.000) 4.48ug/L m

response 6285

Ion	Exp%	Act%
56.10	100	100
57.10	202.70	190.43
43.10	151.20	188.96#
41.10	159.40	171.36

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 12/01/22 18:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753069.D
Acq On : 30 Nov 2022 11:57 am
Operator : kylieg
Sample : IC2765-3
Misc : MS52729,VI2765,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 30 13:55:07 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.335	96	544184	50.00	ug/L	0.00
62) Chlorobenzene-d5	11.512	117	374982	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.877	152	180886	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.451	113	145082	48.15	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.30%			
49) 1,2-Dichloroethane-d4	8.037	65	172312	51.83	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.66%			
63) Toluene-d8	9.945	98	531955	51.40	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.80%			
86) 4-Bromofluorobenzene	12.731	174	151253	49.47	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.94%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.385	85	23678	8.26	ug/L	95
3) Chloromethane	2.708	50	28244	11.34	ug/L	100
4) Vinyl Chloride	2.861	62	25862	10.68	ug/L	94
5) 1,3-Butadiene	2.897	39	24486	9.66	ug/L	94
6) Bromomethane	3.385	94	10309	12.32	ug/L	91
7) Chloroethane	3.580	64	13540	12.67	ug/L	86
8) Trichlorofluoromethane	3.812	101	31574	9.23	ug/L	97
9) Ethyl Ether	4.300	59	17675	9.63	ug/L	91
10) 1,2-Dichlorotrifluoroe...	4.550	67	23960	8.73	ug/L	98
11) 1,1-Dichloroethene	4.562	61	31610	9.23	ug/L	97
12) Ethanol	4.519	45	22665	246.62	ug/L	97
13) Freon 113	4.623	101	16389	7.34	ug/L	95
14) Carbon Disulfide	4.604	76	52902	8.44	ug/L	98
15) Iodomethane	4.757	142	9154	7.11	ug/L	93
16) Acrolein	5.013	56	39139	51.94	ug/L	97
17) Allyl chloride	5.202	41	30807	10.18	ug/L	94
18) Methylene Chloride	5.330	49	34495	9.30	ug/L	88
19) Acetone	5.391	43	78470	48.11	ug/L	99
20) Methyl acetate	5.555	43	138823	47.09	ug/L	96
21) trans-1,2-Dichloroethene	5.562	61	29140	9.22	ug/L	95
22) Hexane	5.659	56	11875m	8.02	ug/L	
23) Methyl Tert Butyl Ether	5.684	73	52208	8.07	ug/L	91
24) Tert butyl alcohol	5.799	59	98135	86.60	ug/L	98
25) Acetonitrile	5.958	41	72118	109.76	ug/L	94
26) Di-isopropyl ether	6.147	45	65307	9.33	ug/L	97
27) Chloroprene	6.281	53	27650	8.50	ug/L	95
28) 1,1-Dichloroethane	6.299	63	36991	9.23	ug/L	97
29) Acrylonitrile	6.354	53	68138	48.91	ug/L	97
30) ETBE	6.580	59	59844	8.52	ug/L	94
31) Vinyl acetate	6.592	43	185660	40.88	ug/L	98
32) cis-1,2-Dichloroethene	6.952	96	18152	8.17	ug/L	89
33) 2,2-Dichloropropane	7.067	77	29150	8.02	ug/L	99
34) Bromochloromethane	7.183	128	8235	8.78	ug/L	86
35) Cyclohexane	7.202	56	30077	8.18	ug/L	96
36) Chloroform	7.256	83	35763	8.59	ug/L	93
37) Ethyl acetate	7.360	43	186117	48.71	ug/L	98
38) Tetrahydrofuran	7.445	42	18751	9.76	ug/L	91
40) Carbon Tetrachloride	7.433	117	24922	7.36	ug/L	98
41) 1,1,1-Trichloroethane	7.494	97	30312	8.06	ug/L	97
42) 2-Butanone	7.579	43	118509	48.21	ug/L	99
43) 1,1-Dichloropropene	7.640	75	25459	8.37	ug/L	94
44) tert-Butyl Formate	7.726	59	96518	58.80	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753069.D
Acq On : 30 Nov 2022 11:57 am
Operator : kylieg
Sample : IC2765-3
Misc : MS52729,VI2765,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 30 13:55:07 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	7.884	54	85350	107.24	ug/L		93
46) Methacrylonitrile	7.915	41	257259	108.27	ug/L		99
47) Benzene	7.903	78	73648	8.75	ug/L		96
48) TAME	8.006	73	48433	7.98	ug/L		95
50) Isobutyl alcohol	8.085	42	50522	199.78	ug/L		92
51) 1,2-Dichloroethane	8.122	62	29291	8.72	ug/L		98
52) Tert Amyl Alcohol	8.195	59	83278	87.26	ug/L		95
53) Trichloroethene	8.537	95	19291	8.02	ug/L		96
54) Methylcyclohexane	8.531	83	22998	7.17	ug/L		93
55) Dibromomethane	8.982	93	12423	8.60	ug/L		98
56) 1,2-Dichloropropane	9.061	63	20243	9.30	ug/L		97
57) Bromodichloromethane	9.122	83	24438	7.98	ug/L		97
58) Methyl methacrylate	9.262	41	19917	7.86	ug/L		89
59) 1,4-Dioxane	9.317	88	12272	167.87	ug/L		93
60) 2-Chloroethyl vinyl ether	9.664	63	75917	41.52	ug/L		98
61) cis-1,3-Dichloropropene	9.762	75	27931	8.20	ug/L		94
64) Toluene	10.006	91	74539	8.34	ug/L		100
65) 2-Nitropropane	10.201	41	36258	25.38	ug/L	#	88
66) 4-Methyl-2-pentanone	10.335	43	224384	49.09	ug/L		95
67) trans-1,3-Dichloropropene	10.414	75	22366	7.82	ug/L		93
68) Tetrachloroethene	10.414	166	20279	8.36	ug/L		97
69) Ethyl methacrylate	10.530	69	25044	8.79	ug/L		95
70) 1,1,2-Trichloroethane	10.567	83	14248	8.34	ug/L		97
71) Dibromochloromethane	10.768	129	17921	7.45	ug/L		96
72) 1,3-Dichloropropane	10.847	76	27472	8.23	ug/L		98
73) 1,2-Dibromoethane	11.030	107	18257	8.40	ug/L		94
74) 3,3-dimethyl-1-butanol	11.121	57	411335m	441.77	ug/L		
75) 2-hexanone	11.164	43	185692	47.64	ug/L		95
76) 1-Chlorohexane	11.475	91	20623	7.62	ug/L		96
77) Ethylbenzene	11.536	91	83456	8.52	ug/L		99
78) Chlorobenzene	11.530	112	46795	8.36	ug/L		97
79) 1,1,1,2-Tetrachloroethane	11.579	131	17169	7.93	ug/L		92
80) m,p-Xylene	11.676	91	120169	15.55	ug/L		99
81) o-Xylene	12.115	91	57468	7.38	ug/L		98
82) Styrene	12.170	104	40606	7.50	ug/L		94
83) Bromoform	12.219	173	12456	6.61	ug/L		93
84) Isopropylbenzene	12.420	105	70545	7.58	ug/L		99
87) cis-1,4-Dichloro-2-butene	12.774	53	9659	8.68	ug/L		88
88) n-Propylbenzene	12.841	91	86243	8.14	ug/L		95
89) Bromobenzene	12.859	156	19234	8.60	ug/L		98
90) 1,1,2,2-Tetrachloroethane	12.896	83	29375	8.54	ug/L		97
91) 1,3,5-Trimethylbenzene	13.024	105	56858	7.56	ug/L		100
92) 2-Chlorotoluene	13.024	91	57200	7.93	ug/L		98
93) trans-1,4-Dichloro-2-B...	13.085	53	8802	7.62	ug/L	#	76
94) 1,2,3-Trichloropropane	13.054	110	9324	8.39	ug/L		89
95) Cyclohexanone	13.115	55	15187	45.49	ug/L		94
96) 4-Chlorotoluene	13.194	91	48747	7.59	ug/L		97
97) tert-Butylbenzene	13.359	91	31387	7.27	ug/L		94
98) 1,2,4-Trimethylbenzene	13.432	105	54562	7.52	ug/L		98
99) Pentachloroethane	13.408	167	10735	8.87	ug/L		95
100) sec-Butylbenzene	13.548	105	65314	7.74	ug/L		99
101) 4-Isopropyltoluene	13.676	119	54288	7.44	ug/L		99
102) 1,3-Dichlorobenzene	13.810	146	31762	8.10	ug/L		97
103) 1,2,3-Trimethylbenzene	13.889	105	56826	7.94	ug/L		95
104) 1,4-Dichlorobenzene	13.895	146	36675	8.64	ug/L		97
105) n-Butylbenzene	14.121	92	30086	7.46	ug/L	#	85
106) Benzyl Chloride	14.133	126	8857	7.56	ug/L	#	82
107) 1,2-Dichlorobenzene	14.334	146	30799	7.95	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753069.D
Acq On : 30 Nov 2022 11:57 am
Operator : kylieg
Sample : IC2765-3
Misc : MS52729,VI2765,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 30 13:55:07 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

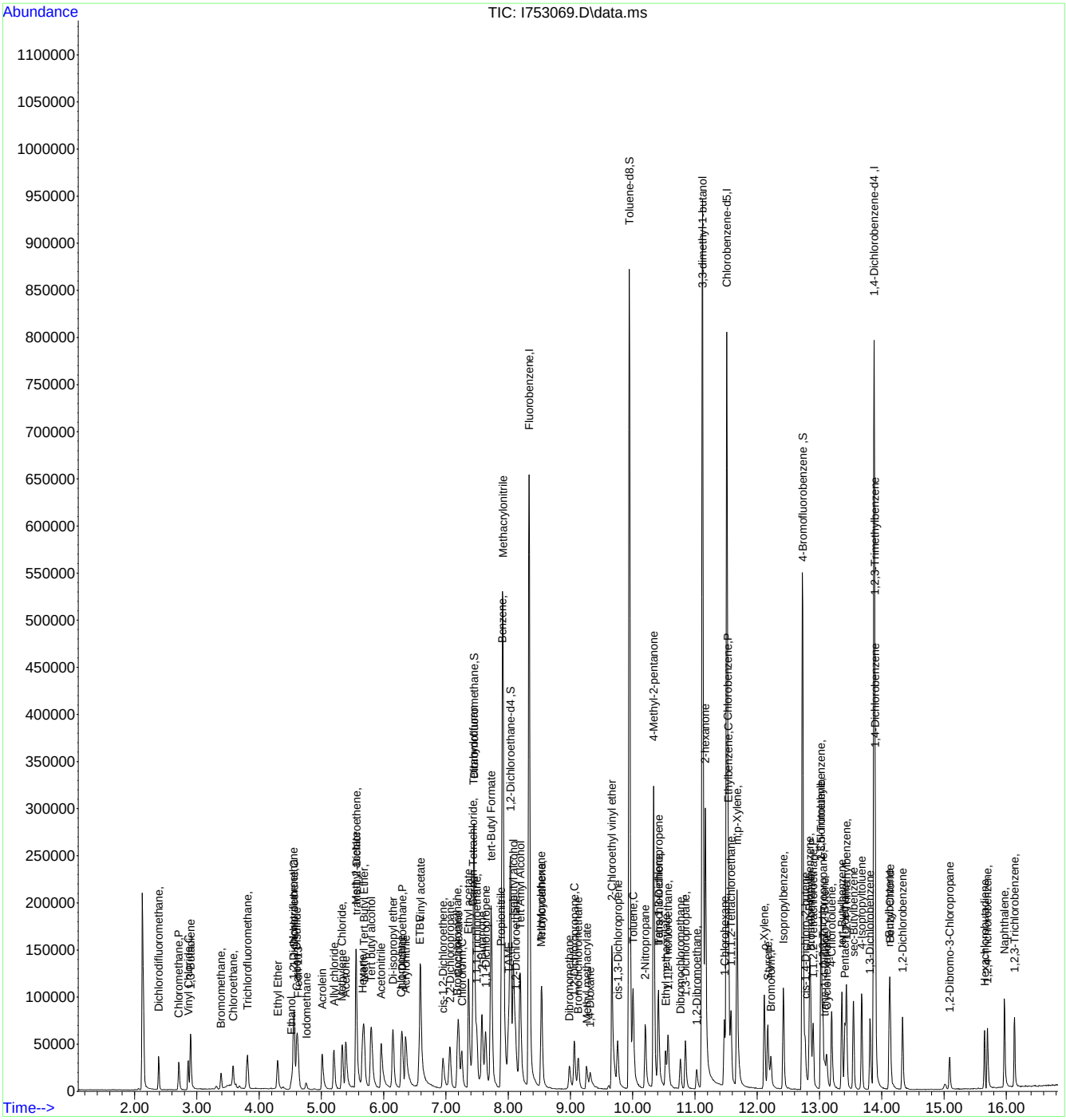
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	15.090	75	8189	7.59	ug/L	92
109) Hexachlorobutadiene	15.651	225	9353	7.97	ug/L	97
110) 1,2,4-Trichlorobenzene	15.700	180	19439	7.65	ug/L	98
111) Naphthalene	15.968	128	65479	6.84	ug/L	97
112) 1,2,3-Trichlorobenzene	16.133	180	19331	7.52	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753069.D
Acq On : 30 Nov 2022 11:57 am
Operator : kylieg
Sample : IC2765-3
Misc : MS52729,VI2765,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 30 13:55:07 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration



Manual Integration Approval Summary

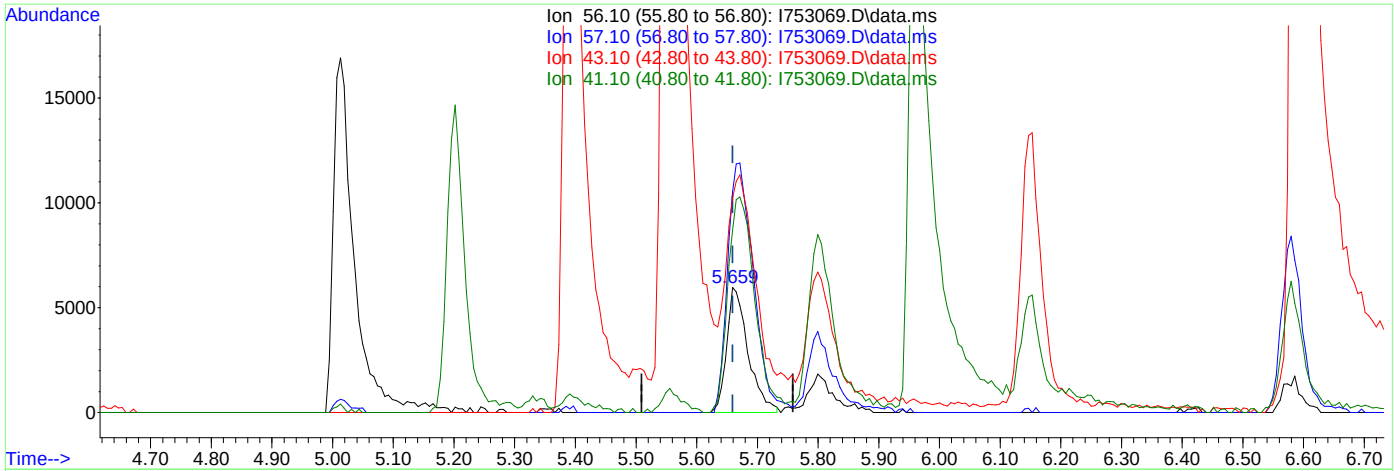
Sample Number: VI2765-IC2765
Lab FileID: I753069.D
Injection Time: 11/30/22 11:57
Method: SW846 8260D
Analyst approved: 11/30/22 14:46 Jo-Ann Lugo De Jesus
Supervisor approved: 12/01/22 18:35 Shanica O'Connor

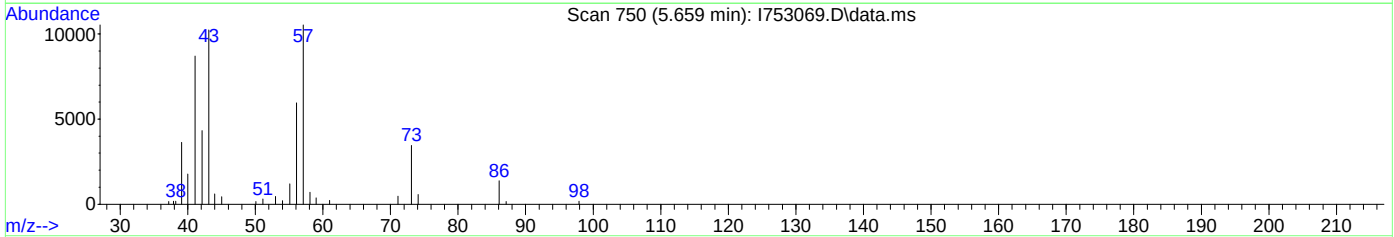
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		5.66	Overlapping peak
3,3-Dimethyl-1-Butanol	624-95-3		11.12	Overlapping peak

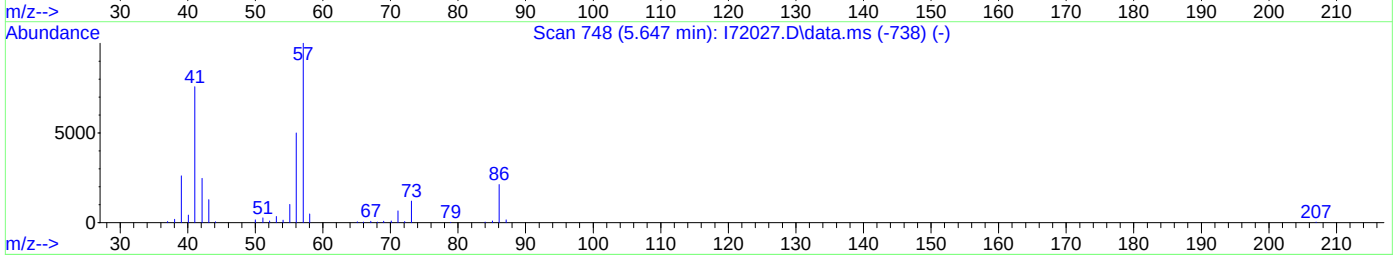
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753069.D
Acq On : 30 Nov 2022 11:57 am
Operator : kylieg
Sample : IC2765-3
Misc : MS52729,VI2765,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 30 13:44:22 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753069.D\data.ms

(22) Hexane

5.659min (+0.000) 9.91ug/L

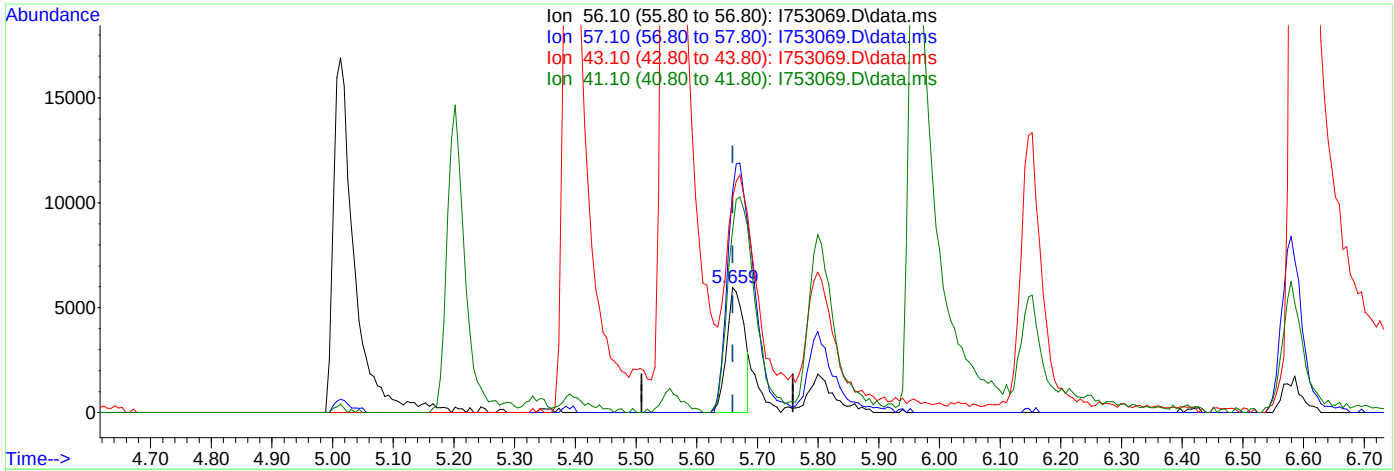
response 14656

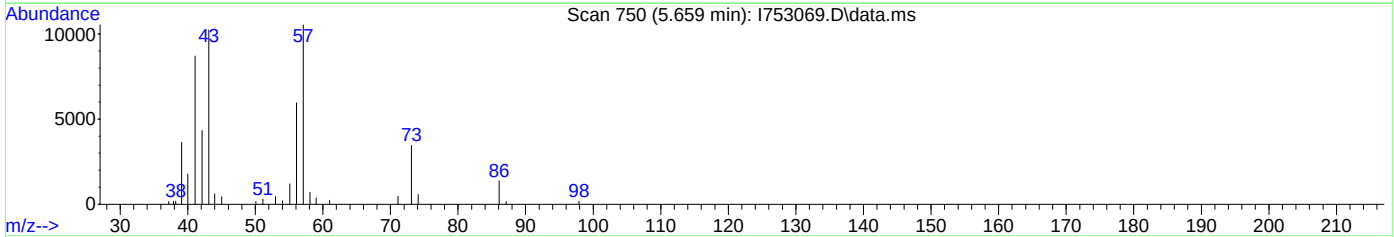
Ion	Exp%	Act%
56.10	100	100
57.10	202.70	176.89
43.10	151.20	141.89
41.10	159.40	146.08

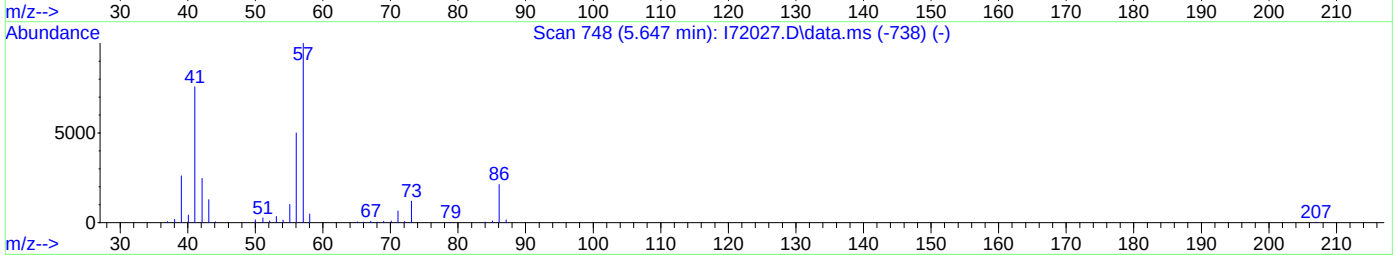
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753069.D
Acq On : 30 Nov 2022 11:57 am
Operator : kylieg
Sample : IC2765-3
Misc : MS52729,VI2765,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 30 13:44:22 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753069.D\data.ms

(22) Hexane

5.659min (+0.000) 8.02ug/L m

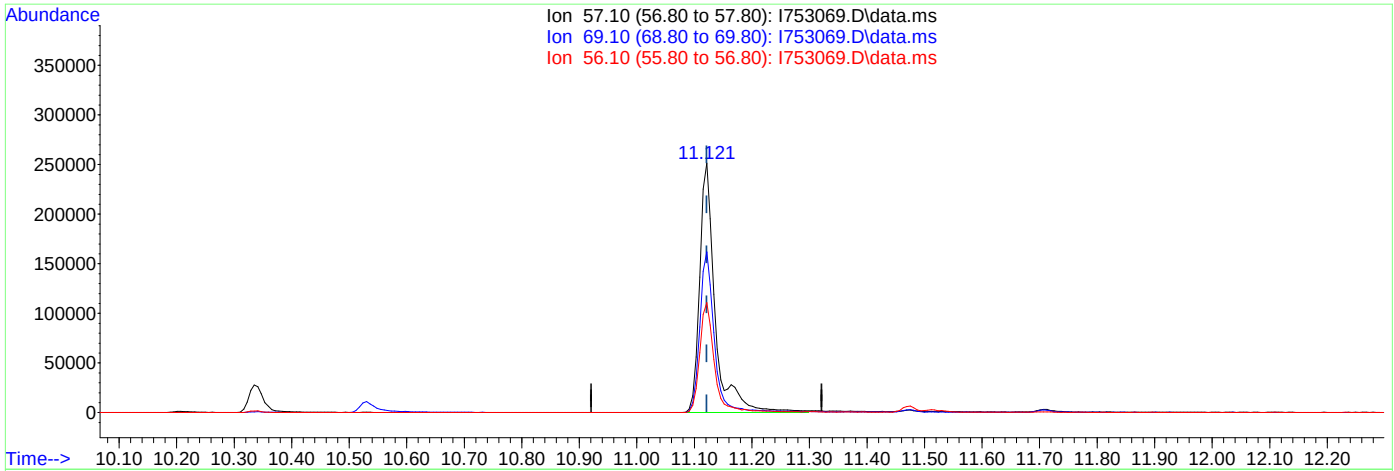
response 11875

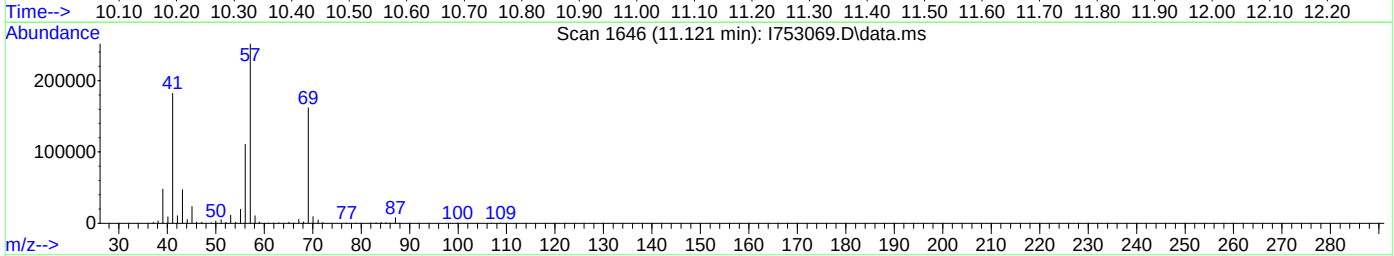
Ion	Exp%	Act%
56.10	100	100
57.10	202.70	176.89
43.10	151.20	171.91
41.10	159.40	146.08

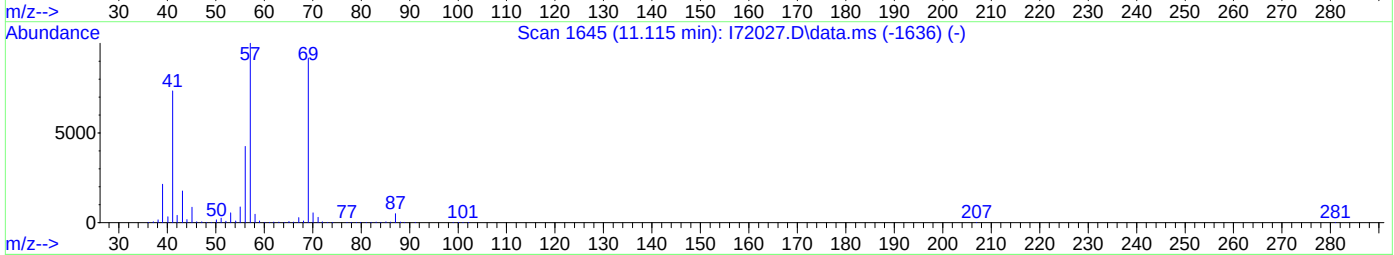
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753069.D
Acq On : 30 Nov 2022 11:57 am
Operator : kylieg
Sample : IC2765-3
Misc : MS52729,VI2765,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 30 13:44:22 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753069.D\data.ms

(74) 3,3-dimethyl-1-butanol

11.121min (+0.000) 512.36ug/L

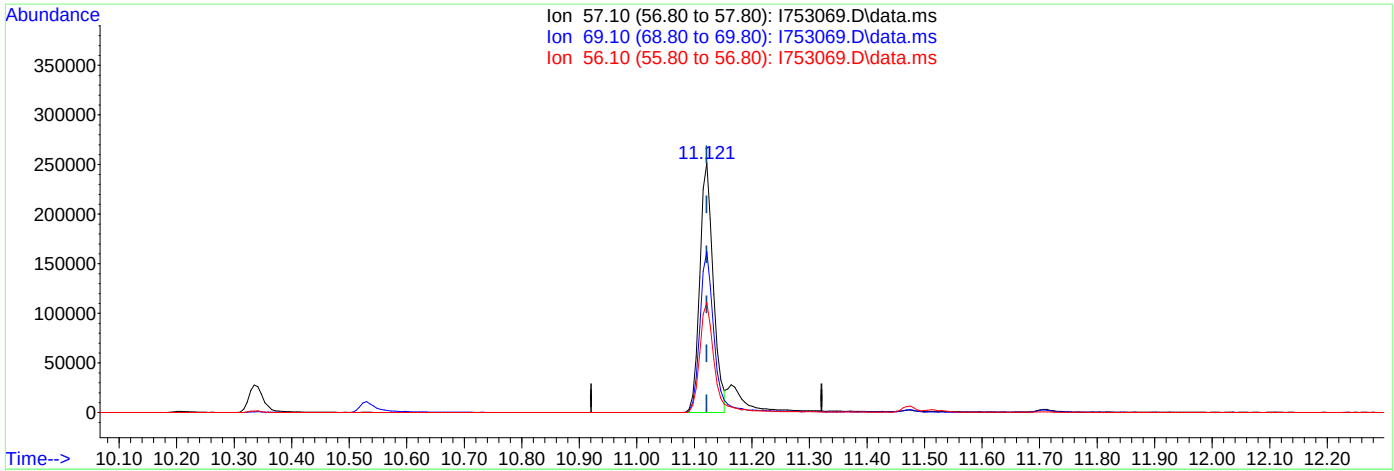
response 477070

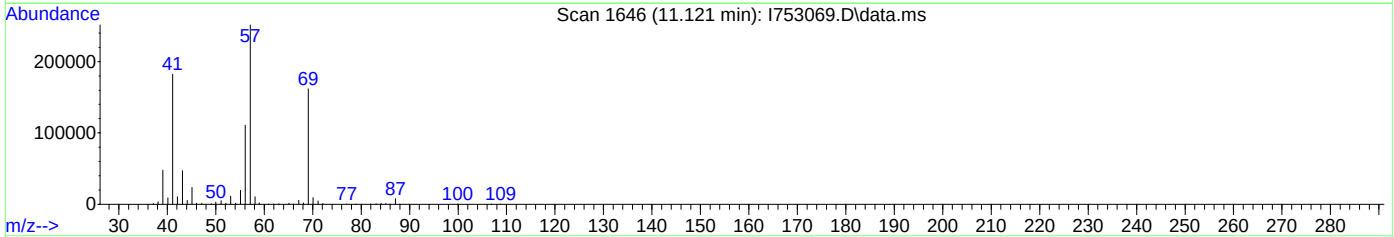
Ion	Exp%	Act%
57.10	100	100
69.10	68.80	64.24
56.10	44.10	44.06
0.00	0.00	0.00

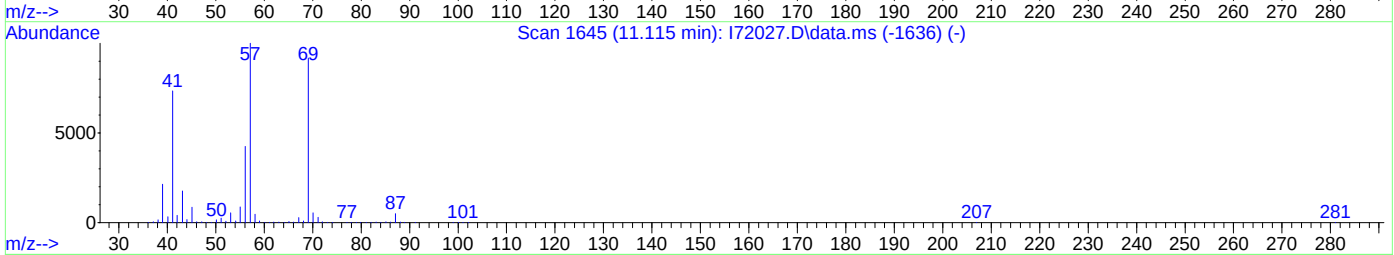
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753069.D
Acq On : 30 Nov 2022 11:57 am
Operator : kylieg
Sample : IC2765-3
Misc : MS52729,VI2765,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 30 13:44:22 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753069.D\data.ms

(74) 3,3-dimethyl-1-butanol

11.121min (+0.000) 441.77ug/L m

response 411335

Ion	Exp%	Act%
57.10	100	100
69.10	68.80	64.32
56.10	44.10	44.06
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 12/01/22 18:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753070.D
Acq On : 30 Nov 2022 12:21 pm
Operator : kylieg
Sample : IC2765-4
Misc : MS52729,VI2765,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 30 13:57:25 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	8.335	96	564165	50.00 ug/L	0.00
62) Chlorobenzene-d5	11.512	117	386131	50.00 ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.877	152	186691	50.00 ug/L	0.00
System Monitoring Compounds					
39) Dibromofluoromethane	7.452	113	150847	48.29 ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.58%		
49) 1,2-Dichloroethane-d4	8.037	65	177512	51.51 ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.02%		
63) Toluene-d8	9.945	98	547207	51.35 ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.70%		
86) 4-Bromofluorobenzene	12.725	174	155152	49.17 ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.34%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.385	85	56980	19.17 ug/L	95
3) Chloromethane	2.709	50	75670	29.31 ug/L	98
4) Vinyl Chloride	2.855	62	68266	27.20 ug/L	98
5) 1,3-Butadiene	2.898	39	59702	23.39 ug/L	100
6) Bromomethane	3.385	94	24078	26.76 ug/L	98
7) Chloroethane	3.580	64	35336	32.76 ug/L	91
8) Trichlorofluoromethane	3.800	101	80132	22.68 ug/L	99
9) Ethyl Ether	4.294	59	51478	27.04 ug/L	92
10) 1,2-Dichlorotrifluoroe...	4.556	67	67034	23.65 ug/L	96
11) 1,1-Dichloroethene	4.556	61	89027	25.03 ug/L	96
12) Ethanol	4.531	45	48761	511.77 ug/L	98
13) Freon 113	4.617	101	43766	18.96 ug/L	95
14) Carbon Disulfide	4.605	76	151773	23.35 ug/L	99
15) Iodomethane	4.751	142	34498	25.09 ug/L	98
16) Acrolein	5.007	56	103702	132.75 ug/L	98
17) Allyl chloride	5.196	41	81694	26.92 ug/L	94
18) Methylene Chloride	5.330	49	88956	23.87 ug/L	92
19) Acetone	5.391	43	206294	122.00 ug/L	99
20) Methyl acetate	5.549	43	412354	134.92 ug/L	97
21) trans-1,2-Dichloroethene	5.556	61	84160	25.43 ug/L	99
22) Hexane	5.659	56	31057m	20.42 ug/L	
23) Methyl Tert Butyl Ether	5.684	73	149212	22.26 ug/L	96
24) Tert butyl alcohol	5.799	59	257212	218.93 ug/L	98
25) Acetonitrile	5.952	41	170906	250.89 ug/L	97
26) Di-isopropyl ether	6.147	45	185665	25.57 ug/L	96
27) Chloroprene	6.281	53	74181	22.01 ug/L	95
28) 1,1-Dichloroethane	6.293	63	104731	25.05 ug/L	97
29) Acrylonitrile	6.342	53	192325	127.31 ug/L	99
30) ETBE	6.574	59	171342	23.52 ug/L	95
31) Vinyl acetate	6.580	43	592261	125.79 ug/L	98
32) cis-1,2-Dichloroethene	6.946	96	52858	22.89 ug/L	94
33) 2,2-Dichloropropane	7.061	77	84364	22.39 ug/L	98
34) Bromochloromethane	7.177	128	23884	24.51 ug/L	88
35) Cyclohexane	7.202	56	82660	21.69 ug/L	97
36) Chloroform	7.250	83	93967	21.93 ug/L	97
37) Ethyl acetate	7.354	43	523190	129.47 ug/L	97
38) Tetrahydrofuran	7.439	42	50103	25.40 ug/L	92
40) Carbon Tetrachloride	7.427	117	72977	20.84 ug/L	98
41) 1,1,1-Trichloroethane	7.494	97	85966	22.13 ug/L	97
42) 2-Butanone	7.567	43	332660	128.58 ug/L	97
43) 1,1-Dichloropropene	7.634	75	74308	23.52 ug/L	97
44) tert-Butyl Formate	7.726	59	269184	158.17 ug/L	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753070.D
Acq On : 30 Nov 2022 12:21 pm
Operator : kylieg
Sample : IC2765-4
Misc : MS52729,VI2765,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 30 13:57:25 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	7.884	54	212293	257.29	ug/L		98
46) Methacrylonitrile	7.909	41	621730	252.40	ug/L		99
47) Benzene	7.903	78	214265	24.55	ug/L		94
48) TAME	8.006	73	141671	22.51	ug/L		96
50) Isobutyl alcohol	8.086	42	125881	480.14	ug/L		97
51) 1,2-Dichloroethane	8.110	62	81914	23.51	ug/L		98
52) Tert Amyl Alcohol	8.189	59	225330	227.74	ug/L		98
53) Trichloroethene	8.531	95	56211	22.54	ug/L		95
54) Methylcyclohexane	8.531	83	60313	18.23	ug/L		93
55) Dibromomethane	8.976	93	34937	23.17	ug/L		92
56) 1,2-Dichloropropane	9.061	63	56970	24.98	ug/L		98
57) Bromodichloromethane	9.122	83	67636	21.31	ug/L		97
58) Methyl methacrylate	9.244	41	59019	22.47	ug/L		91
59) 1,4-Dioxane	9.317	88	31904	433.24	ug/L		100
60) 2-Chloroethyl vinyl ether	9.658	63	218617	117.03	ug/L		97
61) cis-1,3-Dichloropropene	9.756	75	78668	22.29	ug/L		100
64) Toluene	10.000	91	215654	23.44	ug/L		99
65) 2-Nitropropane	10.201	41	109728	74.60	ug/L	#	85
66) 4-Methyl-2-pentanone	10.335	43	601850	127.86	ug/L		98
67) trans-1,3-Dichloropropene	10.402	75	69424	23.38	ug/L		96
68) Tetrachloroethene	10.408	166	59009	23.26	ug/L		99
69) Ethyl methacrylate	10.518	69	65542	22.07	ug/L		92
70) 1,1,2-Trichloroethane	10.561	83	41199	23.43	ug/L		95
71) Dibromochloromethane	10.762	129	52395	21.16	ug/L		97
72) 1,3-Dichloropropane	10.841	76	79205	23.05	ug/L		96
73) 1,2-Dibromoethane	11.018	107	51562	22.82	ug/L		100
74) 3,3-dimethyl-1-butanol	11.122	57	1233497m	1286.50	ug/L		
75) 2-hexanone	11.164	43	521750	130.76	ug/L		96
76) 1-Chlorohexane	11.469	91	61301	22.00	ug/L		92
77) Ethylbenzene	11.530	91	238878	23.67	ug/L		98
78) Chlorobenzene	11.530	112	135265	23.48	ug/L		98
79) 1,1,1,2-Tetrachloroethane	11.579	131	49809	22.35	ug/L		96
80) m,p-Xylene	11.670	91	360941	45.36	ug/L		98
81) o-Xylene	12.109	91	173042	21.57	ug/L		98
82) Styrene	12.164	104	124169	21.99	ug/L		96
83) Bromoform	12.219	173	37542	19.34	ug/L		97
84) Isopropylbenzene	12.420	105	207891	21.69	ug/L		99
87) cis-1,4-Dichloro-2-butene	12.768	53	25517	22.22	ug/L		93
88) n-Propylbenzene	12.841	91	254000	23.22	ug/L		98
89) Bromobenzene	12.853	156	55038	23.83	ug/L		92
90) 1,1,2,2-Tetrachloroethane	12.896	83	81672	23.01	ug/L		100
91) 1,3,5-Trimethylbenzene	13.024	105	173902	22.41	ug/L		97
92) 2-Chlorotoluene	13.024	91	169544	22.76	ug/L		99
93) trans-1,4-Dichloro-2-B...	13.078	53	24205	20.29	ug/L		97
94) 1,2,3-Trichloropropane	13.048	110	26858	23.41	ug/L		89
95) Cyclohexanone	13.115	55	40294	116.93	ug/L		96
96) 4-Chlorotoluene	13.188	91	145421	21.95	ug/L		97
97) tert-Butylbenzene	13.359	91	93466	20.98	ug/L		97
98) 1,2,4-Trimethylbenzene	13.432	105	167318	22.34	ug/L		99
99) Pentachloroethane	13.408	167	29124	23.30	ug/L		94
100) sec-Butylbenzene	13.542	105	194461	22.33	ug/L		98
101) 4-Isopropyltoluene	13.676	119	168001	22.29	ug/L		98
102) 1,3-Dichlorobenzene	13.810	146	90832	22.44	ug/L		98
103) 1,2,3-Trimethylbenzene	13.889	105	168728	22.84	ug/L		99
104) 1,4-Dichlorobenzene	13.895	146	100871	23.03	ug/L		96
105) n-Butylbenzene	14.121	92	95070	22.72	ug/L		94
106) Benzyl Chloride	14.133	126	26459	21.87	ug/L	#	84
107) 1,2-Dichlorobenzene	14.334	146	90006	22.51	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753070.D
Acq On : 30 Nov 2022 12:21 pm
Operator : kylieg
Sample : IC2765-4
Misc : MS52729,VI2765,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 30 13:57:25 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

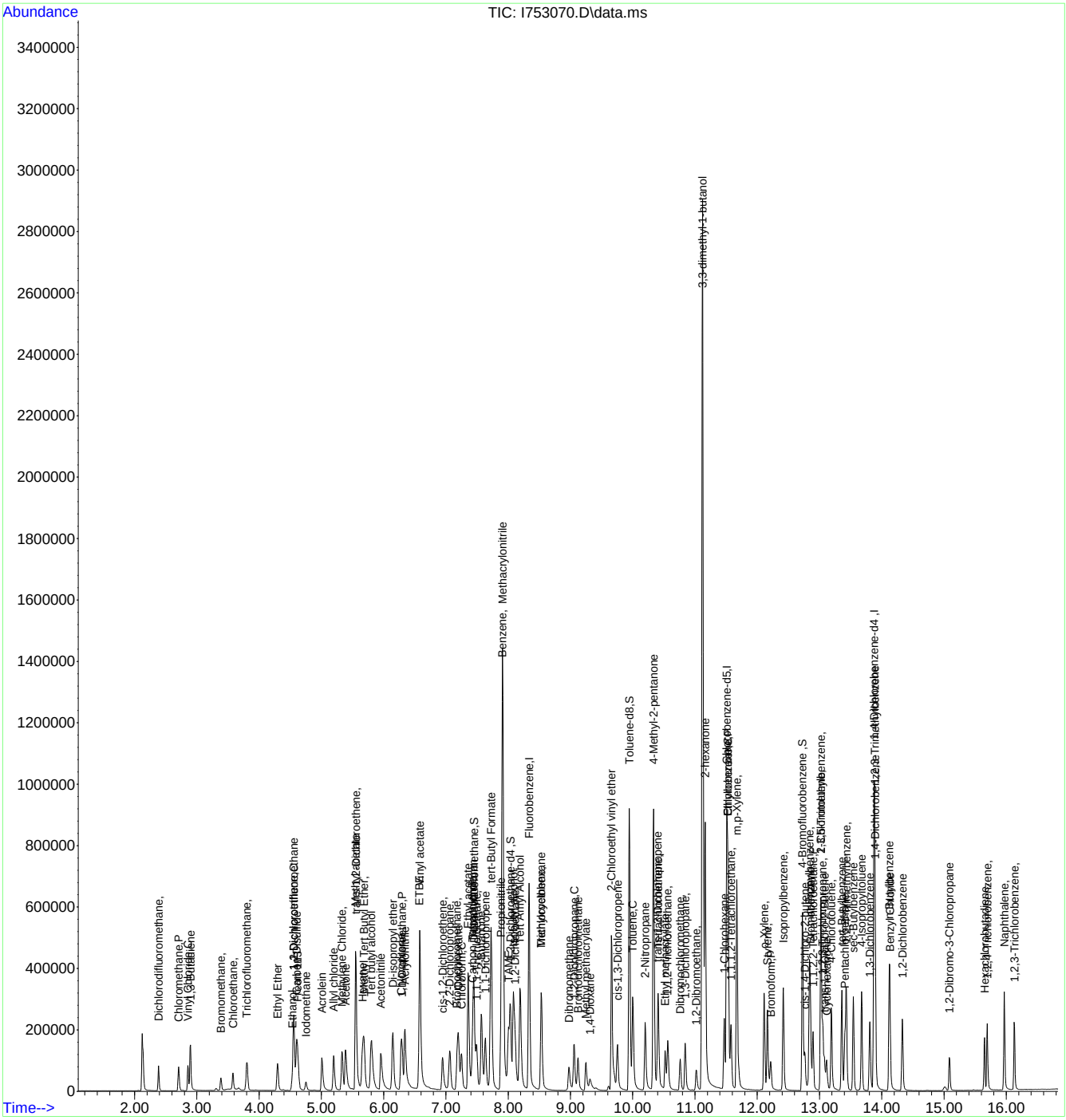
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	15.084	75	23707	21.04	ug/L	94
109) Hexachlorobutadiene	15.651	225	25943	21.42	ug/L	97
110) 1,2,4-Trichlorobenzene	15.694	180	57802	22.03	ug/L	99
111) Naphthalene	15.968	128	197751	20.02	ug/L	99
112) 1,2,3-Trichlorobenzene	16.133	180	56834	21.44	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753070.D
Acq On : 30 Nov 2022 12:21 pm
Operator : kylieg
Sample : IC2765-4
Misc : MS52729,VI2765,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 30 13:57:25 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration



Manual Integration Approval Summary

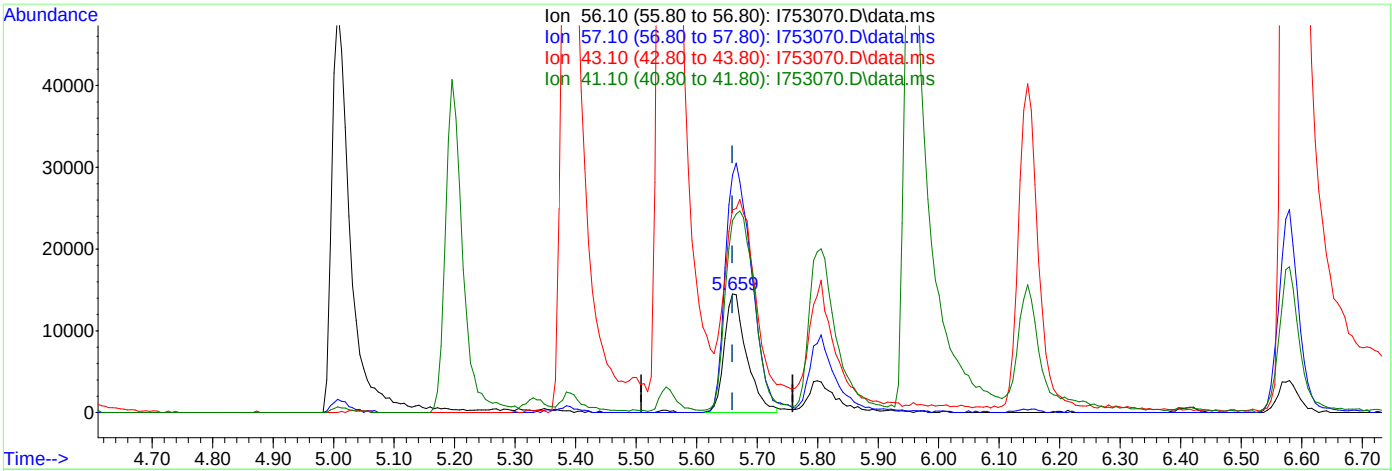
Sample Number: VI2765-IC2765
Lab FileID: I753070.D
Injection Time: 11/30/22 12:21
Method: SW846 8260D
Analyst approved: 11/30/22 14:46 Jo-Ann Lugo De Jesus
Supervisor approved: 12/01/22 18:35 Shanica O'Connor

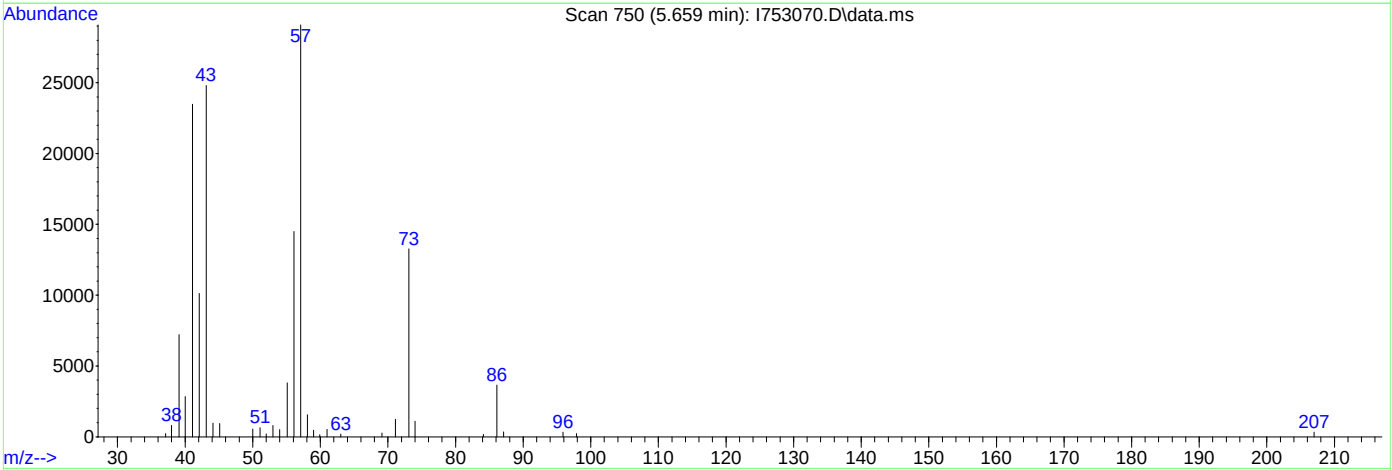
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		5.66	Overlapping peak
3,3-Dimethyl-1-Butanol	624-95-3		11.12	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753070.D
Acq On : 30 Nov 2022 12:21 pm
Operator : kylieg
Sample : IC2765-4
Misc : MS52729,VI2765,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 30 13:44:24 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration





TIC: I753070.D\data.ms

(22) Hexane

5.659min (+0.000) 24.48ug/L

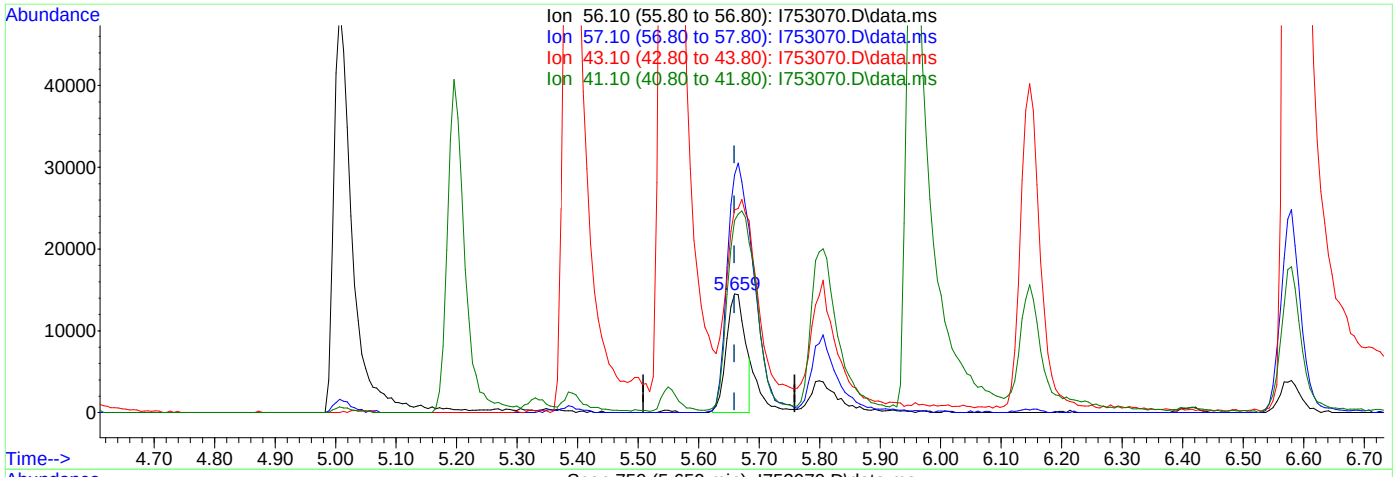
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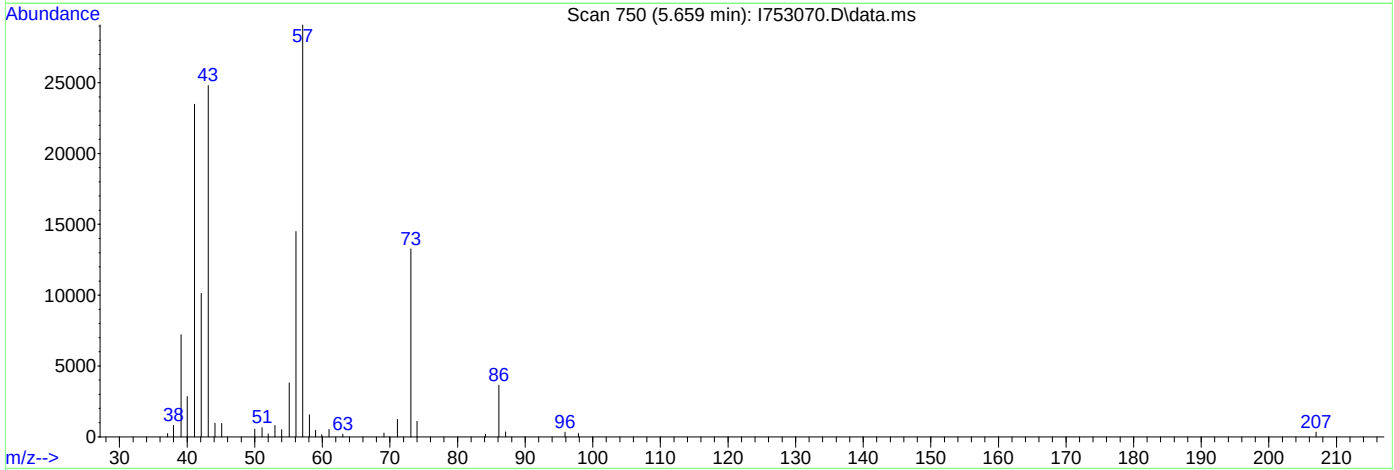
Ion	Exp%	Act%
56.10	100	100
57.10	202.70	200.61
43.10	151.20	147.65
41.10	159.40	159.99

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753070.D
Acq On : 30 Nov 2022 12:21 pm
Operator : kylieg
Sample : IC2765-4
Misc : MS52729,VI2765,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 30 13:44:24 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration





TIC: I753070.D\data.ms

(22) Hexane

5.659min (+0.000) 20.42ug/L m

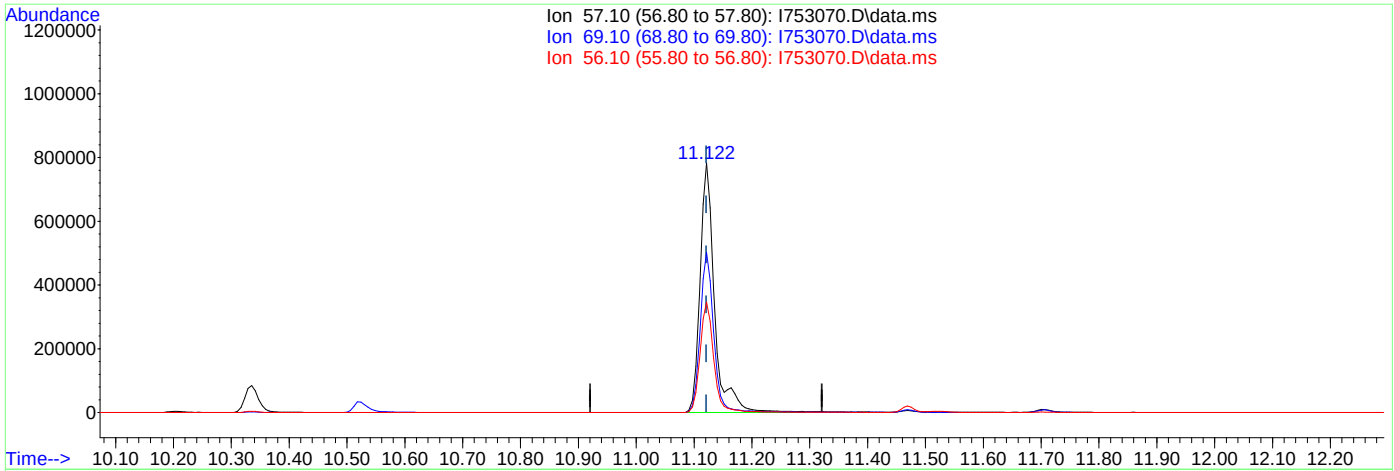
response 31057

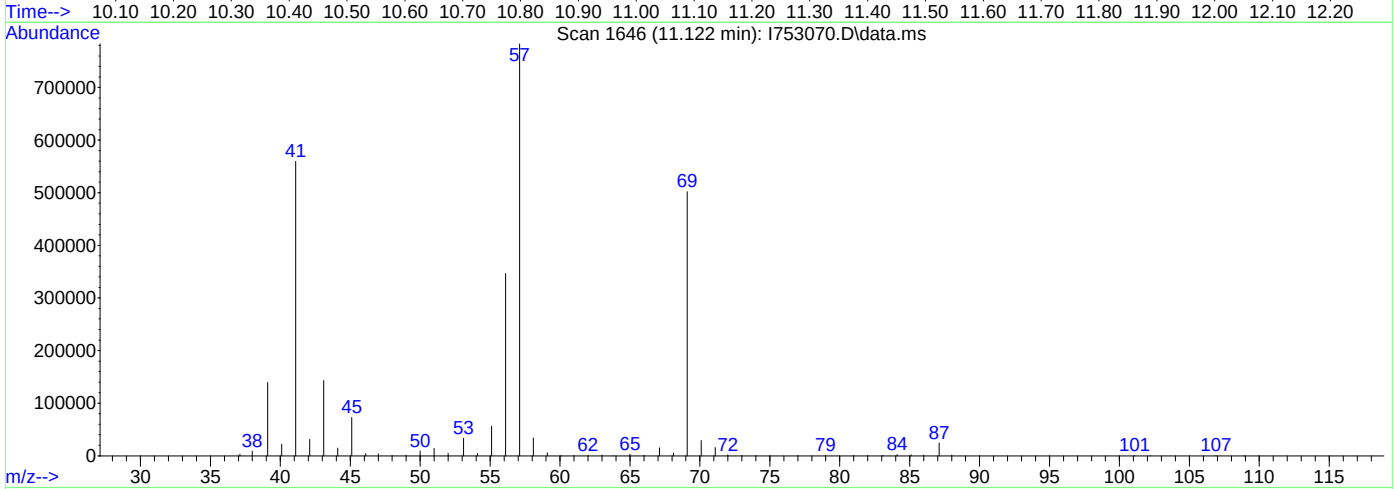
Ion	Exp%	Act%
56.10	100	100
57.10	202.70	200.61
43.10	151.20	171.09
41.10	159.40	161.93

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753070.D
Acq On : 30 Nov 2022 12:21 pm
Operator : kylieg
Sample : IC2765-4
Misc : MS52729,VI2765,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 30 13:44:24 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration





TIC: I753070.D\data.ms

(74) 3,3-dimethyl-1-butanol

11.122min (+0.001) 1430.82ug/L

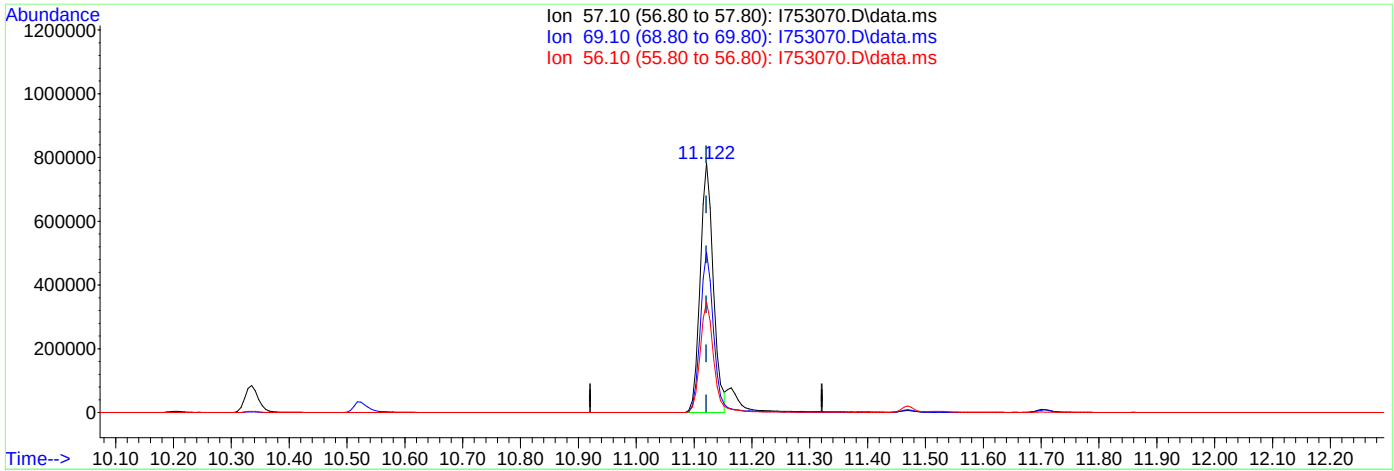
response 1371866

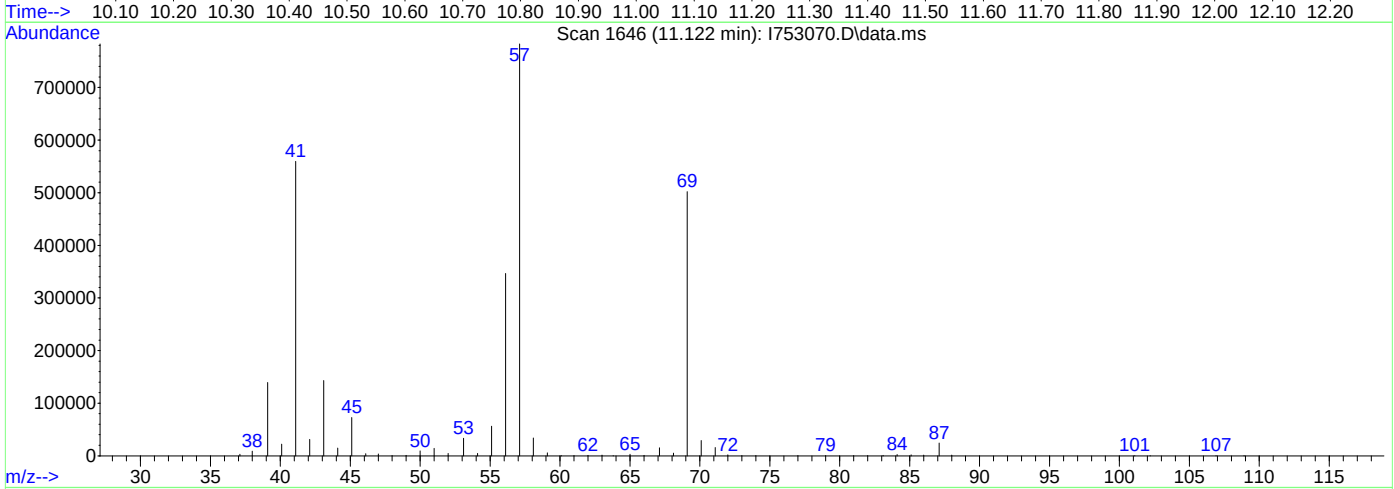
Ion	Exp%	Act%
57.10	100	100
69.10	68.80	64.07
56.10	44.10	44.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753070.D
Acq On : 30 Nov 2022 12:21 pm
Operator : kylieg
Sample : IC2765-4
Misc : MS52729,VI2765,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 30 13:44:24 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration





TIC: I753070.D\data.ms

(74) 3,3-dimethyl-1-butanol

11.122min (+0.001) 1286.50ug/L m

response 1233497

Ion	Exp%	Act%
57.10	100	100
69.10	68.80	64.12
56.10	44.10	44.28
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 12/01/22 18:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753071.D
Acq On : 30 Nov 2022 12:44 pm
Operator : kylieg
Sample : ICC2765-5
Misc : MS52729,VI2765,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 30 13:58:01 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.335	96	570328	50.00	ug/L	0.00
62) Chlorobenzene-d5	11.512	117	388859	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.877	152	191614	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.451	113	152155	48.18	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	96.36%		
49) 1,2-Dichloroethane-d4	8.037	65	178638	51.27	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery =	102.54%		
63) Toluene-d8	9.945	98	554776	51.70	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery =	103.40%		
86) 4-Bromofluorobenzene	12.731	174	156772	48.41	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	96.82%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.385	85	98758	32.87	ug/L	99
3) Chloromethane	2.702	50	127149	48.73	ug/L	99
4) Vinyl Chloride	2.855	62	116712	46.01	ug/L	94
5) 1,3-Butadiene	2.891	39	98706	39.65	ug/L	99
6) Bromomethane	3.385	94	43872	46.04	ug/L	97
7) Chloroethane	3.580	64	59068	55.89	ug/L	93
8) Trichlorofluoromethane	3.794	101	140571	39.51	ug/L	97
9) Ethyl Ether	4.300	59	84985	44.16	ug/L	91
10) 1,2-Dichlorotrifluoroe...	4.550	67	112960	39.62	ug/L	93
11) 1,1-Dichloroethene	4.556	61	148884	41.34	ug/L	99
12) Ethanol	4.543	45	87783	911.37	ug/L	92
13) Freon 113	4.617	101	80361	34.56	ug/L	96
14) Carbon Disulfide	4.598	76	250753	38.17	ug/L	99
15) Iodomethane	4.751	142	69349	48.07	ug/L	97
16) Acrolein	5.007	56	192428	243.67	ug/L	99
17) Allyl chloride	5.196	41	137640	46.74	ug/L	93
18) Methylene Chloride	5.330	49	143993	39.56	ug/L	91
19) Acetone	5.391	43	371337	217.23	ug/L	98
20) Methyl acetate	5.549	43	731709	236.83	ug/L	97
21) trans-1,2-Dichloroethene	5.549	61	142363	42.12	ug/L	96
22) Hexane	5.653	56	56090m	36.95	ug/L	
23) Methyl Tert Butyl Ether	5.683	73	256238	37.81	ug/L	98
24) Tert butyl alcohol	5.818	59	454722	382.87	ug/L	100
25) Acetonitrile	5.958	41	297620	432.19	ug/L	96
26) Di-isopropyl ether	6.147	45	316872	43.17	ug/L	97
27) Chloroprene	6.275	53	128600	37.74	ug/L	96
28) 1,1-Dichloroethane	6.293	63	176964	41.60	ug/L	97
29) Acrylonitrile	6.336	53	384262	237.01	ug/L	98
30) ETBE	6.580	59	298169	40.49	ug/L	98
31) Vinyl acetate	6.574	43	1177257	247.34	ug/L	98
32) cis-1,2-Dichloroethene	6.945	96	88974	38.03	ug/L	94
33) 2,2-Dichloropropane	7.061	77	143286	37.61	ug/L	99
34) Bromochloromethane	7.177	128	38770	39.27	ug/L #	85
35) Cyclohexane	7.195	56	148123	38.47	ug/L	97
36) Chloroform	7.244	83	157343	36.61	ug/L	97
37) Ethyl acetate	7.354	43	1005319	239.64	ug/L	98
38) Tetrahydrofuran	7.439	42	83241	42.18	ug/L	93
40) Carbon Tetrachloride	7.427	117	122538	34.69	ug/L	99
41) 1,1,1-Trichloroethane	7.494	97	144839	37.00	ug/L	98
42) 2-Butanone	7.567	43	628548	235.66	ug/L	99
43) 1,1-Dichloropropene	7.628	75	127299	39.78	ug/L	98
44) tert-Butyl Formate	7.726	59	492403	286.21	ug/L	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753071.D
Acq On : 30 Nov 2022 12:44 pm
Operator : kylieg
Sample : ICC2765-5
Misc : MS52729,VI2765,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 30 13:58:01 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
45) Propionitrile	7.884	54	380373	456.02 ug/L		99
46) Methacrylonitrile	7.909	41	1089323	437.45 ug/L		99
47) Benzene	7.903	78	358682	40.66 ug/L		94
48) TAME	8.006	73	243014	38.20 ug/L		98
50) Isobutyl alcohol	8.092	42	232295	876.46 ug/L		96
51) 1,2-Dichloroethane	8.110	62	135815	38.57 ug/L		96
52) Tert Amyl Alcohol	8.195	59	402532	402.44 ug/L		97
53) Trichloroethene	8.530	95	97525	38.68 ug/L		97
54) Methylcyclohexane	8.537	83	113878	34.28 ug/L		98
55) Dibromomethane	8.976	93	58575	38.18 ug/L		97
56) 1,2-Dichloropropane	9.055	63	98376	42.20 ug/L		96
57) Bromodichloromethane	9.122	83	113823	35.48 ug/L		98
58) Methyl methacrylate	9.244	41	111488	41.99 ug/L		93
59) 1,4-Dioxane	9.317	88	56457	789.24 ug/L		94
60) 2-Chloroethyl vinyl ether	9.658	63	405749	219.18 ug/L		97
61) cis-1,3-Dichloropropene	9.756	75	137031	38.41 ug/L		99
64) Toluene	10.000	91	362616	39.13 ug/L		97
65) 2-Nitropropane	10.201	41	204511	138.07 ug/L	#	90
66) 4-Methyl-2-pentanone	10.335	43	1097090	231.44 ug/L		98
67) trans-1,3-Dichloropropene	10.402	75	120307	39.86 ug/L		99
68) Tetrachloroethene	10.408	166	100275	38.63 ug/L		98
69) Ethyl methacrylate	10.518	69	119739	39.39 ug/L		96
70) 1,1,2-Trichloroethane	10.561	83	70215	39.65 ug/L		96
71) Dibromochloromethane	10.762	129	91221	36.58 ug/L		99
72) 1,3-Dichloropropane	10.841	76	139429	40.30 ug/L		94
73) 1,2-Dibromoethane	11.018	107	90051	39.17 ug/L		99
74) 3,3-dimethyl-1-butanol	11.121	57	2235401m	2315.10 ug/L		
75) 2-hexanone	11.164	43	959901	240.79 ug/L		96
76) 1-Chlorohexane	11.469	91	108509	38.66 ug/L		89
77) Ethylbenzene	11.530	91	402135	39.57 ug/L		98
78) Chlorobenzene	11.530	112	227824	39.27 ug/L		97
79) 1,1,1,2-Tetrachloroethane	11.579	131	85454	38.07 ug/L		99
80) m,p-Xylene	11.670	91	613311	76.53 ug/L		99
81) o-Xylene	12.109	91	299151	37.04 ug/L		99
82) Styrene	12.164	104	220530	38.22 ug/L		97
83) Bromoform	12.219	173	69632	35.62 ug/L		98
84) Isopropylbenzene	12.420	105	364850	37.80 ug/L		99
87) cis-1,4-Dichloro-2-butene	12.761	53	48715	41.33 ug/L		93
88) n-Propylbenzene	12.841	91	437526	38.96 ug/L		97
89) Bromobenzene	12.853	156	94152	39.72 ug/L		98
90) 1,1,2,2-Tetrachloroethane	12.895	83	144980	39.79 ug/L		98
91) 1,3,5-Trimethylbenzene	13.024	105	303772	38.14 ug/L		99
92) 2-Chlorotoluene	13.024	91	286789	37.52 ug/L		99
93) trans-1,4-Dichloro-2-B...	13.078	53	47943	39.16 ug/L		99
94) 1,2,3-Trichloropropane	13.054	110	46303	39.32 ug/L		94
95) Cyclohexanone	13.115	55	81005	229.04 ug/L		96
96) 4-Chlorotoluene	13.188	91	255571	37.58 ug/L		99
97) tert-Butylbenzene	13.359	91	164677	36.01 ug/L		95
98) 1,2,4-Trimethylbenzene	13.426	105	290980	37.85 ug/L		99
99) Pentachloroethane	13.408	167	53060	41.37 ug/L		94
100) sec-Butylbenzene	13.542	105	343568	38.44 ug/L		98
101) 4-Isopropyltoluene	13.676	119	292397	37.81 ug/L		98
102) 1,3-Dichlorobenzene	13.810	146	160056	38.53 ug/L		97
103) 1,2,3-Trimethylbenzene	13.889	105	288942	38.10 ug/L		100
104) 1,4-Dichlorobenzene	13.895	146	174573	38.83 ug/L		97
105) n-Butylbenzene	14.121	92	168953	39.09 ug/L		100
106) Benzyl Chloride	14.127	126	50221	40.45 ug/L	#	38
107) 1,2-Dichlorobenzene	14.328	146	155061	37.79 ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753071.D
Acq On : 30 Nov 2022 12:44 pm
Operator : kylieg
Sample : ICC2765-5
Misc : MS52729,VI2765,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 30 13:58:01 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	15.084	75	42069	35.92	ug/L	97
109) Hexachlorobutadiene	15.651	225	45866	36.90	ug/L	97
110) 1,2,4-Trichlorobenzene	15.694	180	100285	37.25	ug/L	97
111) Naphthalene	15.968	128	361970	35.71	ug/L	100
112) 1,2,3-Trichlorobenzene	16.133	180	100421	36.90	ug/L	95

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

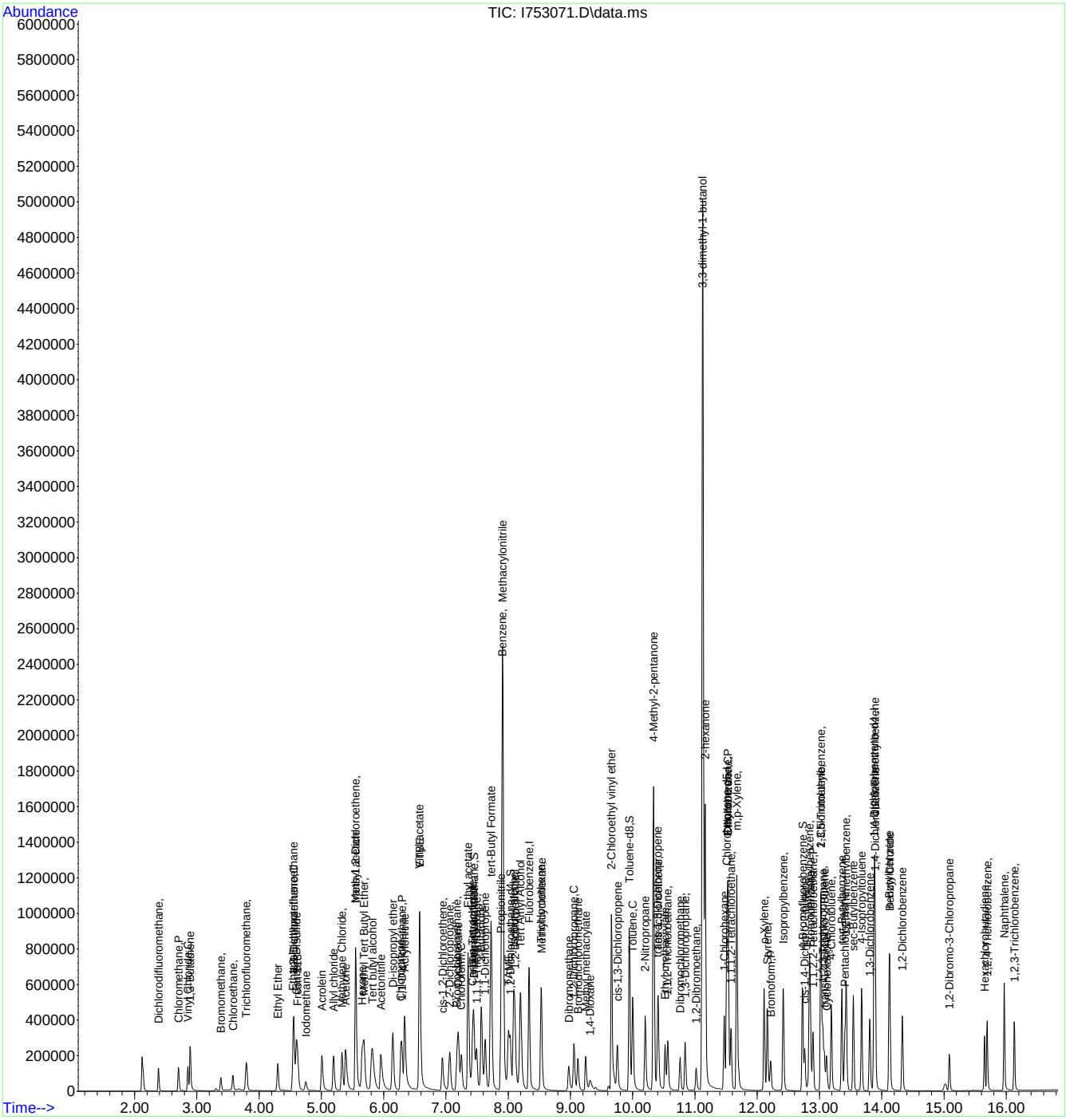
7.6.51

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753071.D
Acq On : 30 Nov 2022 12:44 pm
Operator : kylieg
Sample : ICC2765-5
Misc : MS52729,VI2765,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 30 13:58:01 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration



Manual Integration Approval Summary

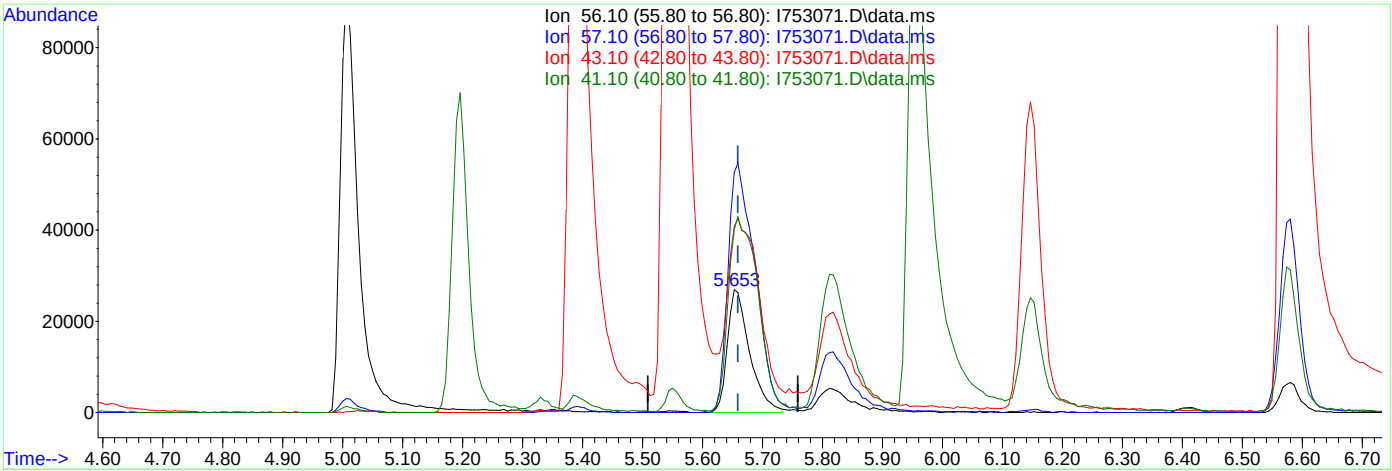
Sample Number:	VI2765-ICC2765	**Method:**	SW846 8260D
Lab FileID:	I753071.D	**Analyst approved:**	11/30/22 14:46 Jo-Ann Lugo De Jesus
Injection Time:	11/30/22 12:44	**Supervisor approved:**	12/01/22 18:35 Shanica O'Connor

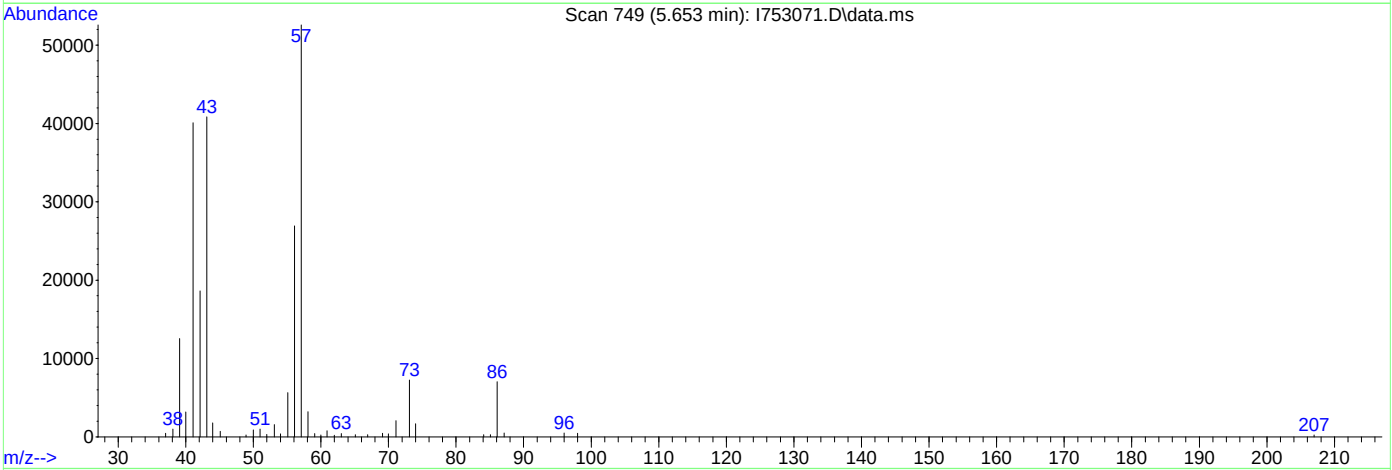
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		5.65	Overlapping peak
3,3-Dimethyl-1-Butanol	624-95-3		11.12	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753071.D
Acq On : 30 Nov 2022 12:44 pm
Operator : kylieg
Sample : ICC2765-5
Misc : MS52729,VI2765,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 30 13:44:26 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration





TIC: I753071.D\data.ms

(22) Hexane

5.653min (-0.006) 45.94ug/L

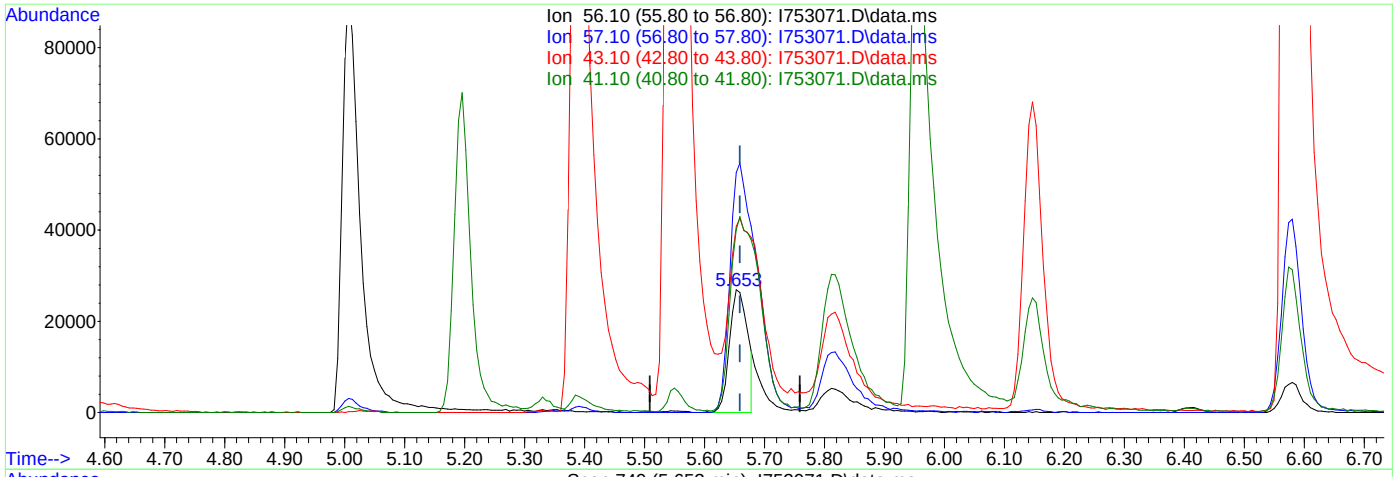
response 69251

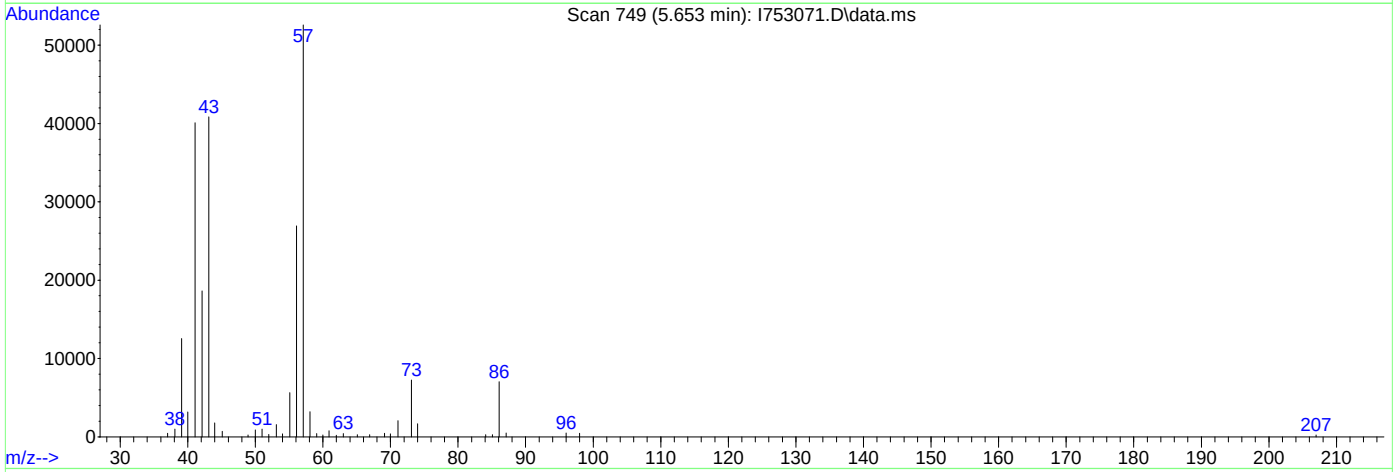
Ion	Exp%	Act%
56.10	100	100
57.10	202.70	195.34
43.10	151.20	133.53
41.10	159.40	146.82

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753071.D
Acq On : 30 Nov 2022 12:44 pm
Operator : kylieg
Sample : ICC2765-5
Misc : MS52729,VI2765,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 30 13:44:26 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration





TIC: I753071.D\data.ms

(22) Hexane

5.653min (-0.006) 36.95ug/L m

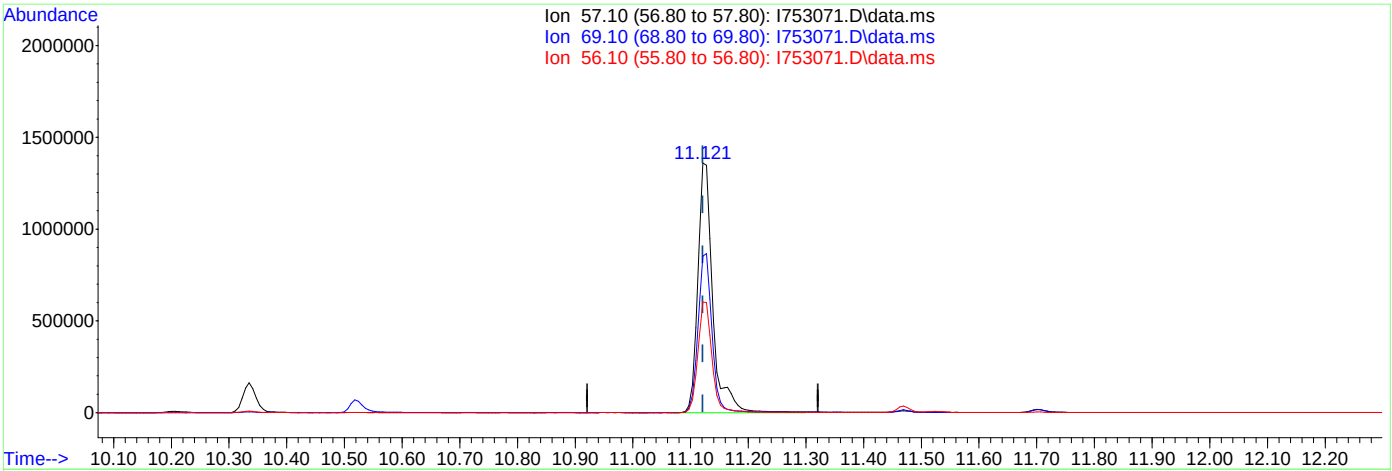
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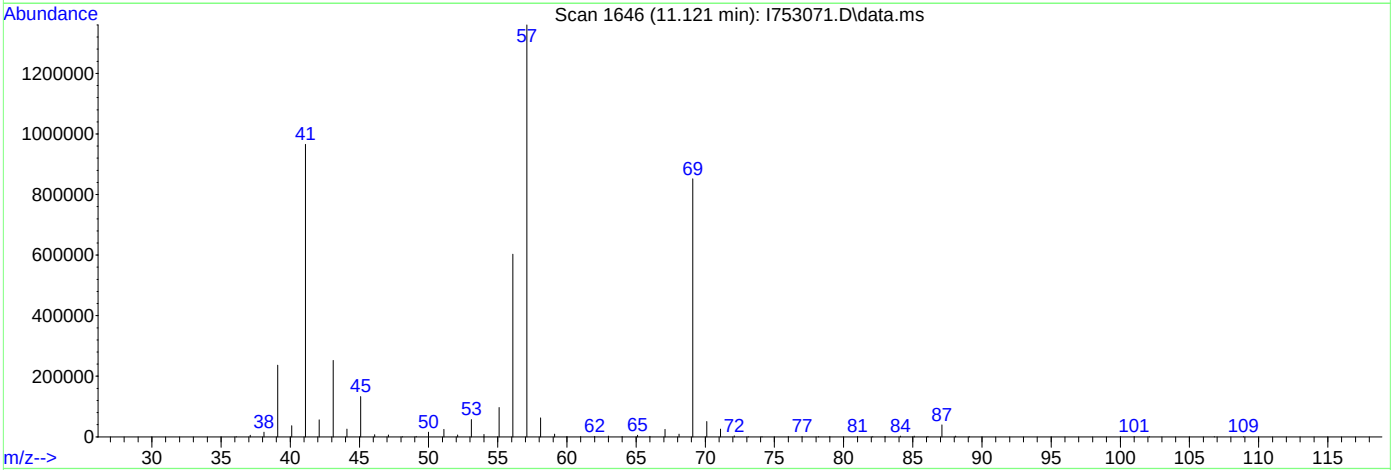
Ion	Exp%	Act%
56.10	100	100
57.10	202.70	195.34
43.10	151.20	151.66
41.10	159.40	148.93

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753071.D
Acq On : 30 Nov 2022 12:44 pm
Operator : kylieg
Sample : ICC2765-5
Misc : MS52729,VI2765,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 30 13:44:26 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration





TIC: I753071.D\data.ms

(74) 3,3-dimethyl-1-butanol

11.121min (+0.000) 2555.28ug/L

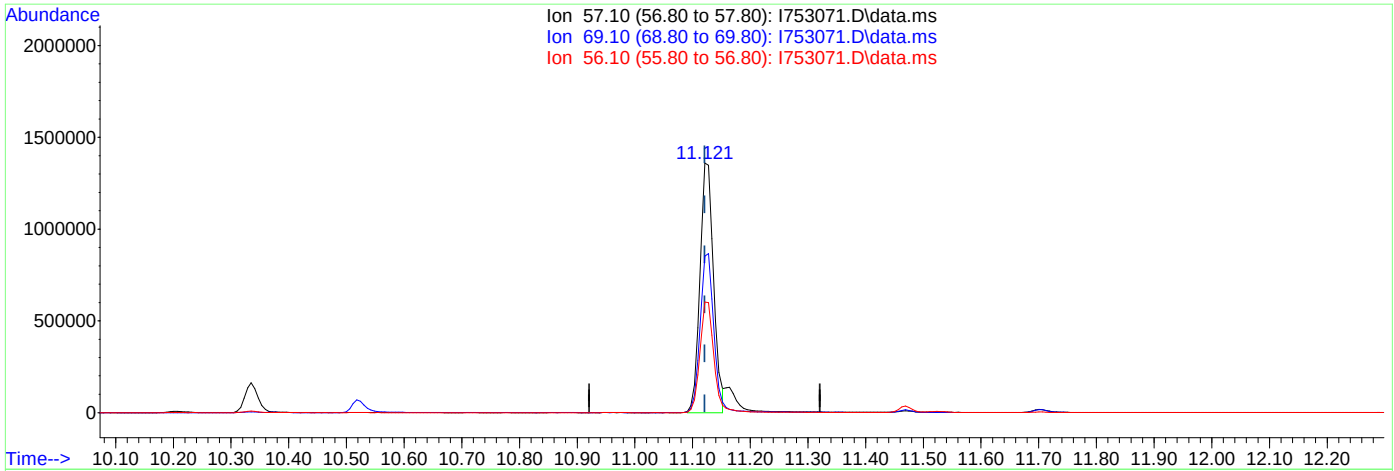
response 2467315

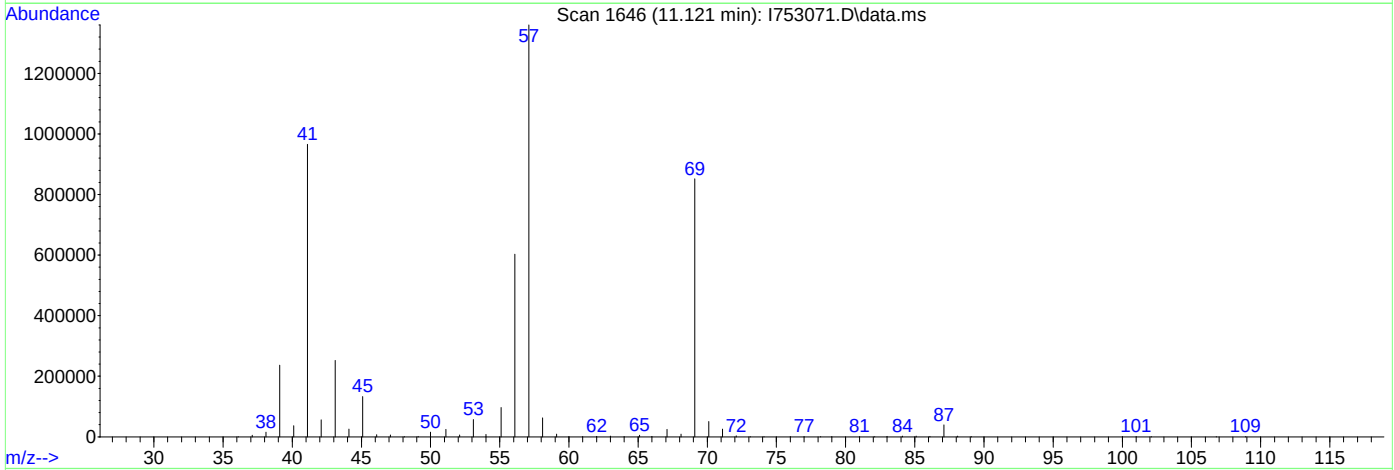
Ion	Exp%	Act%
57.10	100	100
69.10	68.80	62.61
56.10	44.10	44.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753071.D
Acq On : 30 Nov 2022 12:44 pm
Operator : kylieg
Sample : ICC2765-5
Misc : MS52729,VI2765,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 30 13:44:26 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration





TIC: I753071.D\data.ms

(74) 3,3-dimethyl-1-butanol

11.121min (+0.000) 2315.10ug/L m

response 2235401

Ion	Exp%	Act%
57.10	100	100
69.10	68.80	62.65
56.10	44.10	44.33
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor 12/01/22 18:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753072.D
Acq On : 30 Nov 2022 1:08 pm
Operator : kylieg
Sample : IC2765-6
Misc : MS52729,VI2765,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 30 13:58:29 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.335	96	576779	50.00	ug/L	0.00
62) Chlorobenzene-d5	11.512	117	391620	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.877	152	197751	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.452	113	152754	47.83	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.66%			
49) 1,2-Dichloroethane-d4	8.037	65	166753	47.33	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.66%			
63) Toluene-d8	9.945	98	563844	52.17	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.34%			
86) 4-Bromofluorobenzene	12.731	174	159488	47.72	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.392	85	172653	56.82	ug/L	98
3) Chloromethane	2.709	50	208857	79.14	ug/L	98
4) Vinyl Chloride	2.861	62	191589	74.68	ug/L	96
5) 1,3-Butadiene	2.898	39	158726	67.23	ug/L	97
6) Bromomethane	3.391	94	75184	73.28	ug/L	98
7) Chloroethane	3.580	64	94182	92.86	ug/L	91
8) Trichlorofluoromethane	3.794	101	207287	57.85	ug/L	98
9) Ethyl Ether	4.312	59	133493	68.60	ug/L	93
10) 1,2-Dichlorotrifluoroe...	4.556	67	189492	66.24	ug/L	94
11) 1,1-Dichloroethene	4.556	61	253240	69.33	ug/L	99
12) Ethanol	4.574	45	147522	1514.46	ug/L	96
13) Freon 113	4.617	101	129601	55.38	ug/L	97
14) Carbon Disulfide	4.598	76	428930	64.56	ug/L	99
15) Iodomethane	4.751	142	113144	74.43	ug/L	95
16) Acrolein	5.013	56	316970	396.89	ug/L	96
17) Allyl chloride	5.196	41	236000	86.47	ug/L	92
18) Methylene Chloride	5.336	49	241150	70.32	ug/L	91
19) Acetone	5.397	43	604055	349.42	ug/L	98
20) Methyl acetate	5.556	43	1244765	398.38	ug/L	97
21) trans-1,2-Dichloroethene	5.549	61	243952	70.19	ug/L	95
22) Hexane	5.659	56	93620m	62.20	ug/L	
23) Methyl Tert Butyl Ether	5.690	73	434150	63.35	ug/L	90
24) Tert butyl alcohol	5.836	59	774575	644.89	ug/L	99
25) Acetonitrile	5.958	41	504593	724.55	ug/L	96
26) Di-isopropyl ether	6.153	45	544016	73.29	ug/L	97
27) Chloroprene	6.275	53	224865	65.25	ug/L	97
28) 1,1-Dichloroethane	6.299	63	301610	69.36	ug/L	99
29) Acrylonitrile	6.342	53	613731	352.72	ug/L	99
30) ETBE	6.580	59	510284	68.52	ug/L	95
31) Vinyl acetate	6.580	43	1924675	399.85	ug/L	98
32) cis-1,2-Dichloroethene	6.946	96	151472	63.78	ug/L	98
33) 2,2-Dichloropropane	7.061	77	238577	61.93	ug/L	98
34) Bromochloromethane	7.177	128	64532	64.40	ug/L	89
35) Cyclohexane	7.202	56	249632	64.14	ug/L	96
36) Chloroform	7.250	83	281062	65.70	ug/L	97
37) Ethyl acetate	7.360	43	1599167	365.96	ug/L	98
38) Tetrahydrofuran	7.439	42	140650	71.84	ug/L	92
40) Carbon Tetrachloride	7.433	117	207962	58.44	ug/L	98
41) 1,1,1-Trichloroethane	7.494	97	247168	62.78	ug/L	98
42) 2-Butanone	7.573	43	1037406	375.10	ug/L	97
43) 1,1-Dichloropropene	7.634	75	215165	66.29	ug/L	98
44) tert-Butyl Formate	7.726	59	819508	471.01	ug/L	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753072.D
Acq On : 30 Nov 2022 1:08 pm
Operator : kylieg
Sample : IC2765-6
Misc : MS52729,VI2765,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 30 13:58:29 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	7.890	54	654549	775.95	ug/L		85
46) Methacrylonitrile	7.915	41	1870432	742.73	ug/L		98
47) Benzene	7.903	78	609712	68.34	ug/L		97
48) TAME	8.006	73	407631	63.36	ug/L		98
50) Isobutyl alcohol	8.098	42	405058	1511.21	ug/L		96
51) 1,2-Dichloroethane	8.110	62	227919	63.99	ug/L		96
52) Tert Amyl Alcohol	8.207	59	687999	680.14	ug/L		94
53) Trichloroethene	8.531	95	162131	63.58	ug/L		98
54) Methylcyclohexane	8.537	83	188139	56.53	ug/L		96
55) Dibromomethane	8.970	93	100211	63.88	ug/L		98
56) 1,2-Dichloropropane	9.055	63	167655	69.88	ug/L		98
57) Bromodichloromethane	9.122	83	196641	60.61	ug/L		99
58) Methyl methacrylate	9.244	41	200816	74.78	ug/L		96
59) 1,4-Dioxane	9.317	88	100604	1516.83	ug/L		92
60) 2-Chloroethyl vinyl ether	9.658	63	674096	371.19	ug/L		97
61) cis-1,3-Dichloropropene	9.750	75	237284	65.76	ug/L		99
64) Toluene	10.000	91	623906	66.85	ug/L		99
65) 2-Nitropropane	10.201	41	369125	247.44	ug/L		93
66) 4-Methyl-2-pentanone	10.335	43	1799545	376.95	ug/L		97
67) trans-1,3-Dichloropropene	10.396	75	208267	67.47	ug/L		95
68) Tetrachloroethene	10.408	166	172170	64.17	ug/L		100
69) Ethyl methacrylate	10.518	69	213394	67.91	ug/L		95
70) 1,1,2-Trichloroethane	10.561	83	121572	68.17	ug/L		98
71) Dibromochloromethane	10.762	129	157573	62.74	ug/L		97
72) 1,3-Dichloropropane	10.841	76	239339	68.68	ug/L		98
73) 1,2-Dibromoethane	11.018	107	152230	64.68	ug/L		97
74) 3,3-dimethyl-1-butanol	11.128	57	3888891m	3999.15	ug/L		
75) 2-hexanone	11.164	43	1504225	378.46	ug/L		96
76) 1-Chlorohexane	11.469	91	186265	65.90	ug/L		92
77) Ethylbenzene	11.530	91	690743	67.50	ug/L		98
78) Chlorobenzene	11.530	112	383241	65.59	ug/L		98
79) 1,1,1,2-Tetrachloroethane	11.579	131	144561	63.95	ug/L		99
80) m,p-Xylene	11.670	91	1056223	130.87	ug/L		99
81) o-Xylene	12.109	91	515178	63.33	ug/L		100
82) Styrene	12.158	104	388057	65.23	ug/L		96
83) Bromoform	12.213	173	121315	61.63	ug/L		98
84) Isopropylbenzene	12.420	105	630711	64.88	ug/L		99
87) cis-1,4-Dichloro-2-butene	12.761	53	88617	72.84	ug/L		95
88) n-Propylbenzene	12.835	91	762995	65.84	ug/L		95
89) Bromobenzene	12.853	156	162968	66.62	ug/L		98
90) 1,1,2,2-Tetrachloroethane	12.896	83	246934	65.68	ug/L		99
91) 1,3,5-Trimethylbenzene	13.018	105	526789	64.09	ug/L		99
92) 2-Chlorotoluene	13.024	91	491313	62.28	ug/L		99
93) trans-1,4-Dichloro-2-B...	13.078	53	83094	65.77	ug/L		97
94) 1,2,3-Trichloropropane	13.054	110	78802	64.85	ug/L		92
95) Cyclohexanone	13.115	55	129927	355.96	ug/L		98
96) 4-Chlorotoluene	13.188	91	445775	63.51	ug/L		98
97) tert-Butylbenzene	13.359	91	288841	61.21	ug/L		95
98) 1,2,4-Trimethylbenzene	13.426	105	510628	64.36	ug/L		99
99) Pentachloroethane	13.408	167	92826	70.12	ug/L		95
100) sec-Butylbenzene	13.542	105	600087	65.05	ug/L		98
101) 4-Isopropyltoluene	13.676	119	515140	64.54	ug/L		99
102) 1,3-Dichlorobenzene	13.804	146	281555	65.67	ug/L		97
103) 1,2,3-Trimethylbenzene	13.889	105	497926	63.62	ug/L		99
104) 1,4-Dichlorobenzene	13.895	146	296662	63.93	ug/L		98
105) n-Butylbenzene	14.121	92	300588	66.71	ug/L		93
106) Benzyl Chloride	14.127	126	90350	70.51	ug/L	#	52
107) 1,2-Dichlorobenzene	14.328	146	272394	64.32	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753072.D
Acq On : 30 Nov 2022 1:08 pm
Operator : kylieg
Sample : IC2765-6
Misc : MS52729,VI2765,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 30 13:58:29 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

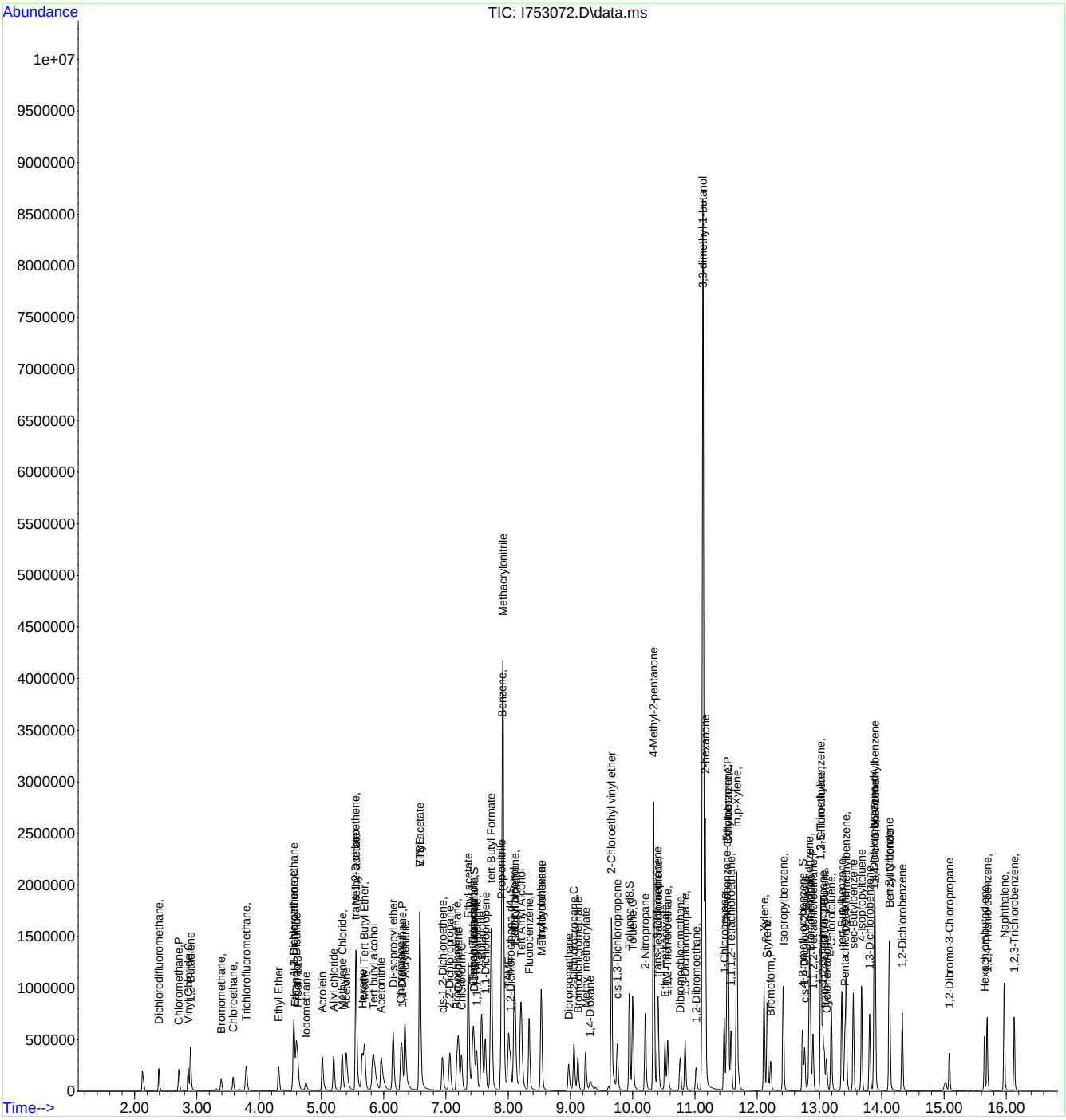
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	15.084	75	74567	60.43	ug/L	99
109) Hexachlorobutadiene	15.651	225	78718	61.37	ug/L	96
110) 1,2,4-Trichlorobenzene	15.694	180	179357	64.55	ug/L	98
111) Naphthalene	15.968	128	636837	60.87	ug/L	99
112) 1,2,3-Trichlorobenzene	16.127	180	173628	61.82	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753072.D
Acq On : 30 Nov 2022 1:08 pm
Operator : kylieg
Sample : IC2765-6
Misc : MS52729,VI2765,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 30 13:58:29 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration



Manual Integration Approval Summary

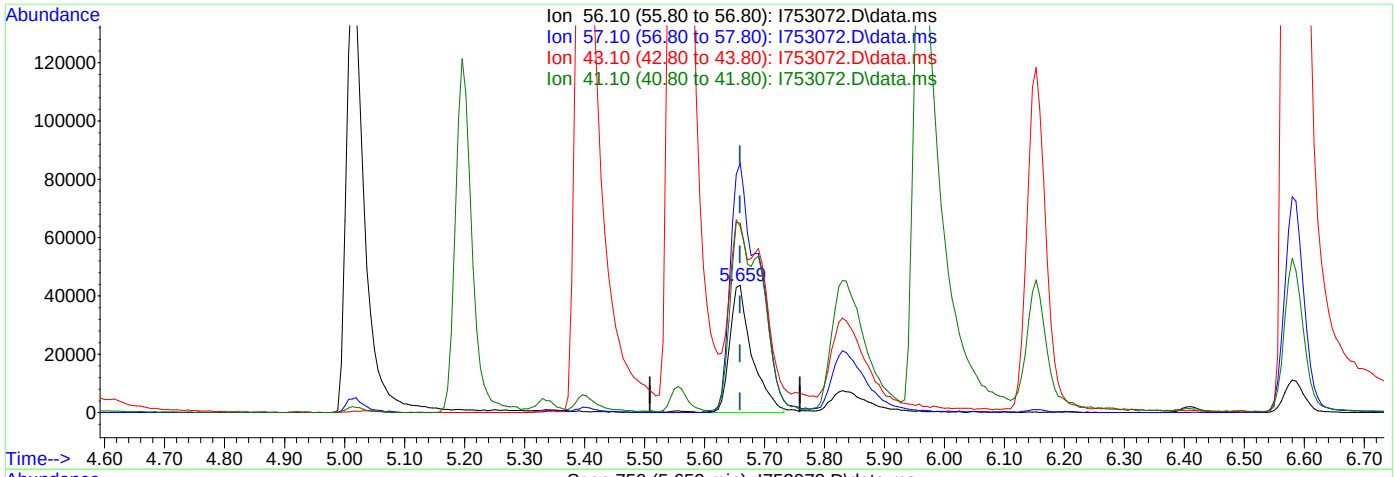
Sample Number:	VI2765-IC2765	**Method:**	SW846 8260D
Lab FileID:	I753072.D	**Analyst approved:**	11/30/22 14:46 Jo-Ann Lugo De Jesus
Injection Time:	11/30/22 13:08	**Supervisor approved:**	12/01/22 18:35 Shanica O'Connor

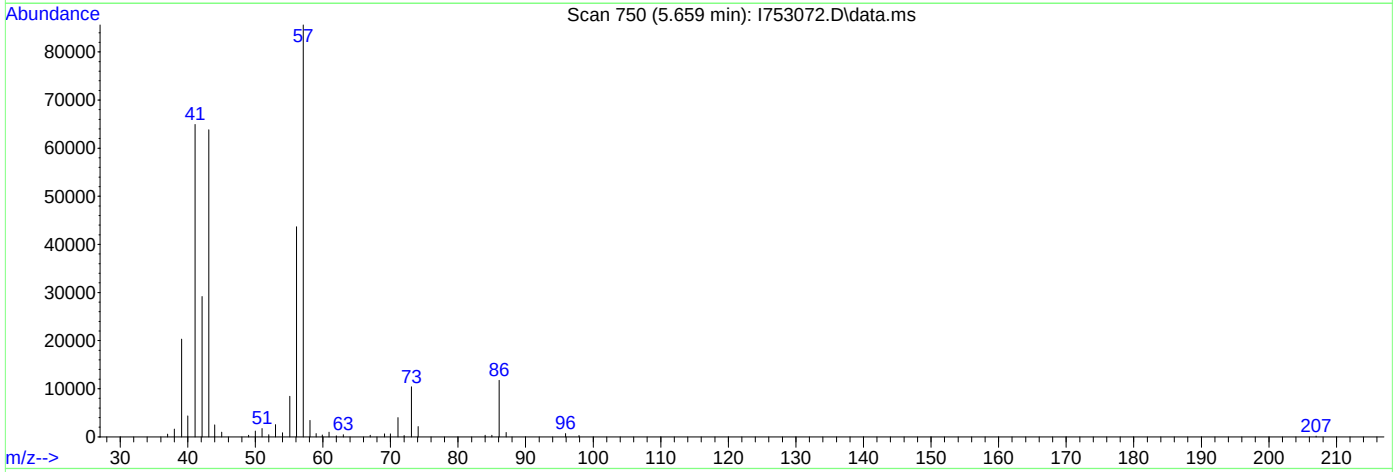
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		5.66	Overlapping peak
3,3-Dimethyl-1-Butanol	624-95-3		11.13	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753072.D
Acq On : 30 Nov 2022 1:08 pm
Operator : kylieg
Sample : IC2765-6
Misc : MS52729,VI2765,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 30 13:44:30 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration





TIC: I753072.D\data.ms

(22) Hexane

5.659min (+0.000) 75.34ug/L

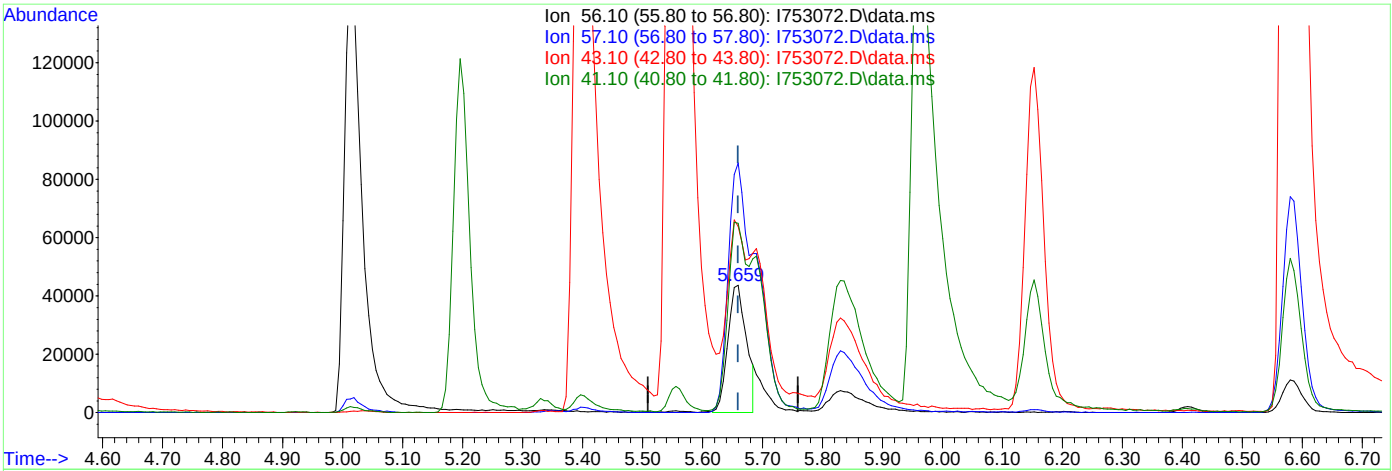
response 112214

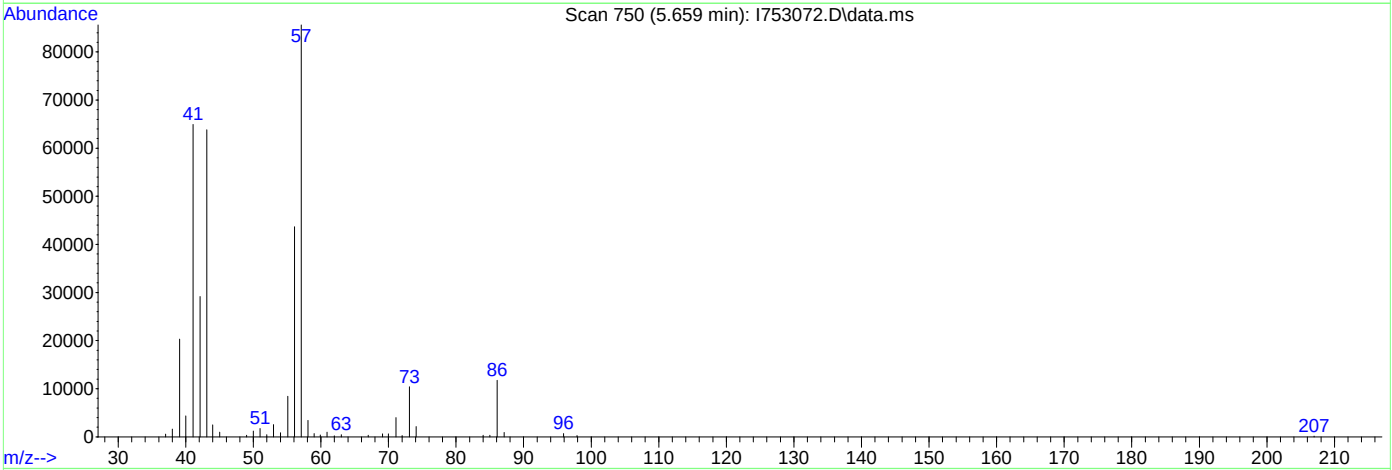
Ion	Exp%	Act%
56.10	100	100
57.10	202.70	196.04
43.10	151.20	126.90
41.10	159.40	145.64

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753072.D
Acq On : 30 Nov 2022 1:08 pm
Operator : kylieg
Sample : IC2765-6
Misc : MS52729,VI2765,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 30 13:44:30 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration





TIC: I753072.D\data.ms

(22) Hexane

5.659min (+0.000) 62.20ug/L m

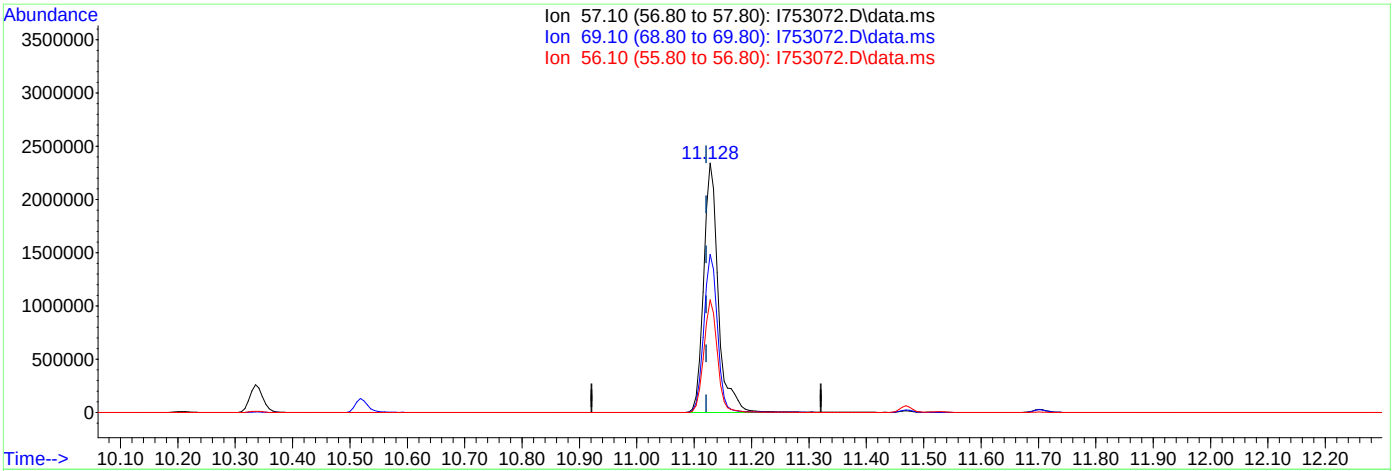
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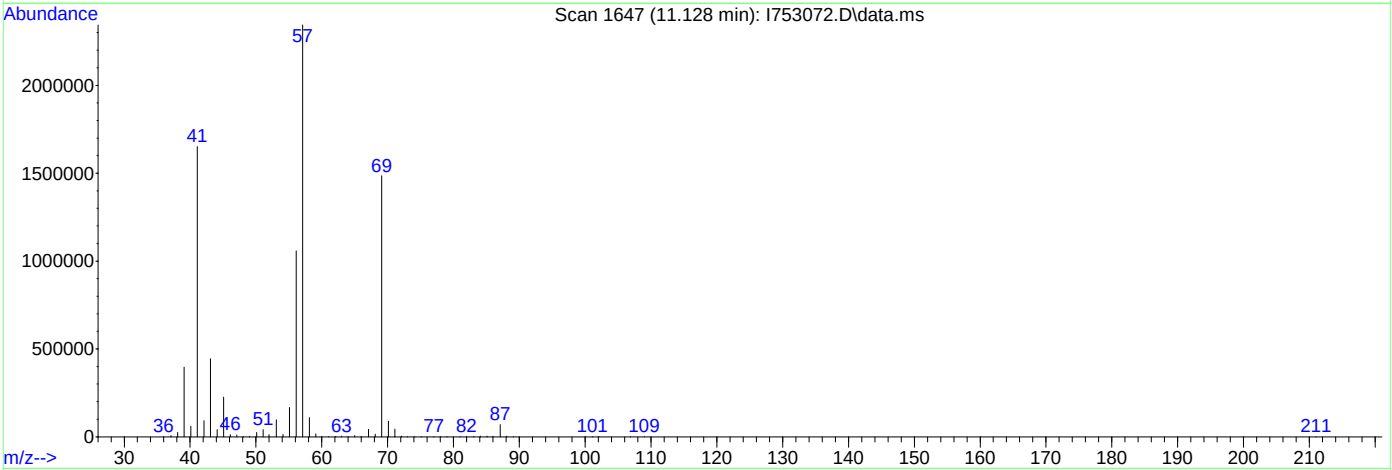
Ion	Exp%	Act%
56.10	100	100
57.10	202.70	196.04
43.10	151.20	146.15
41.10	159.40	148.66

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753072.D
Acq On : 30 Nov 2022 1:08 pm
Operator : kylieg
Sample : IC2765-6
Misc : MS52729,VI2765,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 30 13:44:30 2022
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Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration





TIC: I753072.D\data.ms

(74) 3,3-dimethyl-1-butanol

11.128min (+0.007) 4288.35ug/L

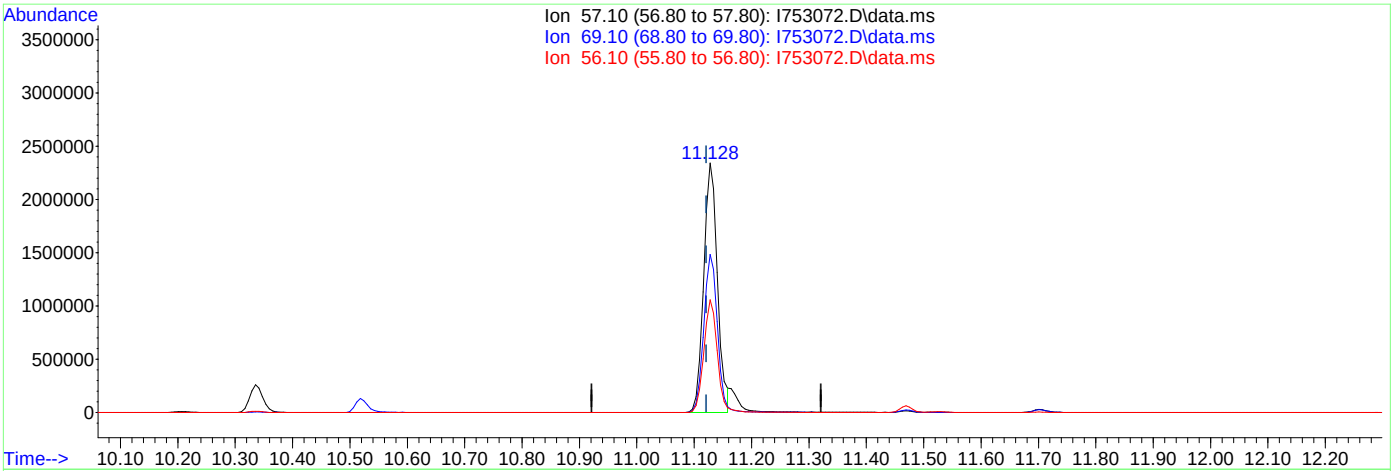
response 4170119

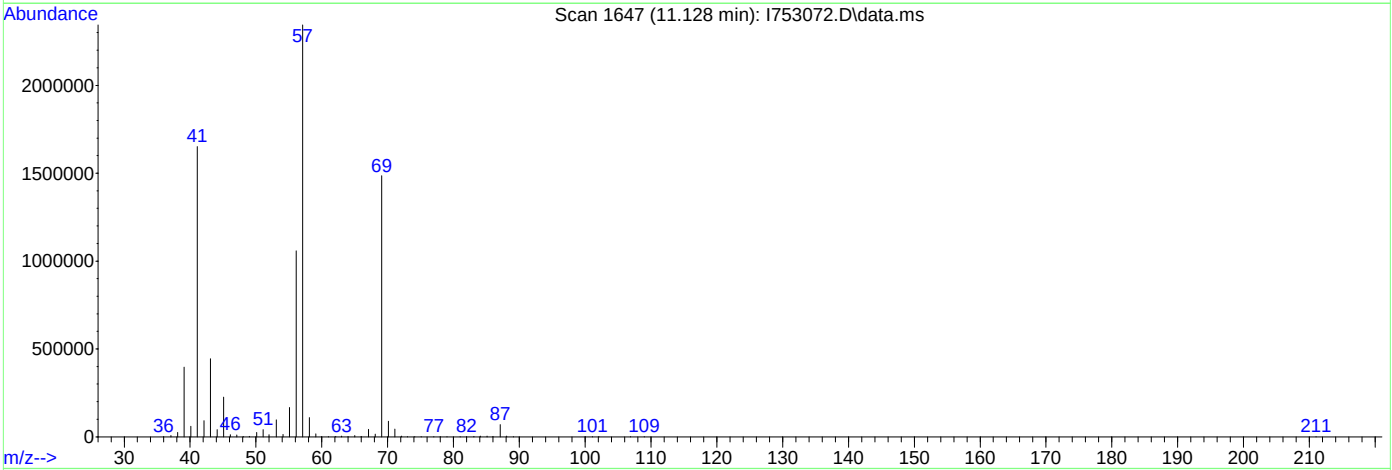
Ion	Exp%	Act%
57.10	100	100
69.10	68.80	63.38
56.10	44.10	45.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753072.D
Acq On : 30 Nov 2022 1:08 pm
Operator : kylieg
Sample : IC2765-6
Misc : MS52729,VI2765,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 30 13:44:30 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration





TIC: I753072.D\data.ms

(74) 3,3-dimethyl-1-butanol

11.128min (+0.007) 3999.15ug/L m

response 3888891

Ion	Exp%	Act%
57.10	100	100
69.10	68.80	63.40
56.10	44.10	45.14
0.00	0.00	0.00

I753073.D

Manual Integrations APPROVED (compounds with "m" flag)

Shanica O'Connor 12/01/22 18:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753073.D
Acq On : 30 Nov 2022 1:31 pm
Operator : kylieg
Sample : IC2765-7
Misc : MS52729,VI2765,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 30 13:59:16 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.335	96	592666	50.00	ug/L	0.00
62) Chlorobenzene-d5	11.512	117	404656	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.877	152	204840	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.451	113	158740	48.37	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.74%			
49) 1,2-Dichloroethane-d4	8.037	65	175624	48.51	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.02%			
63) Toluene-d8	9.945	98	578658	51.82	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.64%			
86) 4-Bromofluorobenzene	12.731	174	165536	47.81	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.62%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.391	85	239392	76.68	ug/L	97
3) Chloromethane	2.708	50	299629	110.50	ug/L	99
4) Vinyl Chloride	2.861	62	276347	104.83	ug/L	95
5) 1,3-Butadiene	2.897	39	223516	100.03	ug/L	99
6) Bromomethane	3.391	94	118332	104.86	ug/L	96
7) Chloroethane	3.586	64	134134	137.66	ug/L	95
8) Trichlorofluoromethane	3.794	101	280978	76.66	ug/L	100
9) Ethyl Ether	4.318	59	194221	97.13	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.556	67	256214	87.74	ug/L	94
11) 1,1-Dichloroethene	4.556	61	344836	91.66	ug/L	98
12) Ethanol	4.586	45	179409	1792.44	ug/L	90
13) Freon 113	4.617	101	171056	71.40	ug/L	97
14) Carbon Disulfide	4.598	76	587188	86.01	ug/L	99
15) Iodomethane	4.751	142	157579	97.47	ug/L	97
16) Acrolein	5.013	56	461850	562.80	ug/L	96
17) Allyl chloride	5.196	41	318736	124.55	ug/L	96
18) Methylene Chloride	5.336	49	337312	104.14	ug/L	91
19) Acetone	5.397	43	900157	506.74	ug/L	99
20) Methyl acetate	5.555	43	1898989	591.47	ug/L	97
21) trans-1,2-Dichloroethene	5.549	61	340083	93.92	ug/L	95
22) Hexane	5.653	56	115855m	75.72	ug/L	
23) Methyl Tert Butyl Ether	5.690	73	644917	91.58	ug/L	93
24) Tert butyl alcohol	5.842	59	1117607	905.54	ug/L	98
25) Acetonitrile	5.964	41	724946	1013.05	ug/L	99
26) Di-isopropyl ether	6.153	45	796434	104.42	ug/L	97
27) Chloroprene	6.275	53	316974	89.51	ug/L	96
28) 1,1-Dichloroethane	6.299	63	426204	94.46	ug/L	98
29) Acrylonitrile	6.342	53	921084	483.61	ug/L	100
30) ETBE	6.586	59	754931	98.65	ug/L	96
31) Vinyl acetate	6.580	43	2890263	584.36	ug/L	98
32) cis-1,2-Dichloroethene	6.945	96	215915	88.15	ug/L	95
33) 2,2-Dichloropropane	7.061	77	333776	84.32	ug/L	97
34) Bromochloromethane	7.171	128	92602	89.59	ug/L #	87
35) Cyclohexane	7.201	56	335992	84.06	ug/L	98
36) Chloroform	7.250	83	398885	92.09	ug/L	98
37) Ethyl acetate	7.360	43	2388122	514.26	ug/L	98
38) Tetrahydrofuran	7.445	42	209551	106.57	ug/L	92
40) Carbon Tetrachloride	7.427	117	288178	79.09	ug/L	99
41) 1,1,1-Trichloroethane	7.494	97	338058	83.96	ug/L	99
42) 2-Butanone	7.573	43	1554533	532.20	ug/L	97
43) 1,1-Dichloropropene	7.634	75	297397	88.94	ug/L	98
44) tert-Butyl Formate	7.726	59	1207349	675.33	ug/L	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753073.D
Acq On : 30 Nov 2022 1:31 pm
Operator : kylieg
Sample : IC2765-7
Misc : MS52729,VI2765,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 30 13:59:16 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	7.890	54	958965	1106.35	ug/L		85
46)	Methacrylonitrile	7.915	41	2756387	1065.20	ug/L		99
47)	Benzene	7.903	78	855297	93.29	ug/L		95
48)	TAME	8.006	73	601590	91.01	ug/L		96
50)	Isobutyl alcohol	8.104	42	571263	2074.16	ug/L		96
51)	1,2-Dichloroethane	8.110	62	332166	90.76	ug/L		95
52)	Tert Amyl Alcohol	8.207	59	996011	958.24	ug/L		94
53)	Trichloroethene	8.530	95	222890	85.06	ug/L		98
54)	Methylcyclohexane	8.537	83	247668	72.93	ug/L		95
55)	Dibromomethane	8.969	93	148731	91.19	ug/L		97
56)	1,2-Dichloropropane	9.055	63	239985	95.79	ug/L		97
57)	Bromodichloromethane	9.122	83	287926	86.37	ug/L		99
58)	Methyl methacrylate	9.244	41	305248	110.62	ug/L		95
59)	1,4-Dioxane	9.323	88	127549	1988.47	ug/L		96
60)	2-Chloroethyl vinyl ether	9.658	63	997932	555.61	ug/L		96
61)	cis-1,3-Dichloropropene	9.750	75	349089	94.15	ug/L		99
64)	Toluene	10.000	91	876291	90.87	ug/L		99
65)	2-Nitropropane	10.201	41	587101	380.88	ug/L		95
66)	4-Methyl-2-pentanone	10.335	43	2674646	542.22	ug/L		97
67)	trans-1,3-Dichloropropene	10.396	75	305844	94.49	ug/L		92
68)	Tetrachloroethene	10.408	166	235860	83.47	ug/L		99
69)	Ethyl methacrylate	10.518	69	319790	96.06	ug/L		95
70)	1,1,2-Trichloroethane	10.561	83	175422	95.19	ug/L		97
71)	Dibromochloromethane	10.762	129	236046	90.95	ug/L		99
72)	1,3-Dichloropropane	10.841	76	351602	97.65	ug/L		98
73)	1,2-Dibromoethane	11.018	107	228637	92.40	ug/L		99
74)	3,3-dimethyl-1-butanol	11.134	57	5549476m	5522.97	ug/L		
75)	2-hexanone	11.164	43	2239691	552.40	ug/L		98
76)	1-Chlorohexane	11.469	91	257204	88.06	ug/L		93
77)	Ethylbenzene	11.530	91	967270	91.47	ug/L		98
78)	Chlorobenzene	11.530	112	544042	90.12	ug/L		98
79)	1,1,1,2-Tetrachloroethane	11.579	131	207643	88.90	ug/L		98
80)	m,p-Xylene	11.670	91	1491699	178.87	ug/L		99
81)	o-Xylene	12.109	91	739388	87.97	ug/L		99
82)	Styrene	12.158	104	557931	88.94	ug/L		96
83)	Bromoform	12.213	173	185082	90.99	ug/L		97
84)	Isopropylbenzene	12.414	105	883184	87.92	ug/L		99
87)	cis-1,4-Dichloro-2-butene	12.761	53	132588	105.21	ug/L		96
88)	n-Propylbenzene	12.835	91	1057444	88.09	ug/L		97
89)	Bromobenzene	12.853	156	231300	91.28	ug/L		97
90)	1,1,2,2-Tetrachloroethane	12.895	83	367169	94.28	ug/L		98
91)	1,3,5-Trimethylbenzene	13.024	105	747224	87.76	ug/L		100
92)	2-Chlorotoluene	13.024	91	702587	85.97	ug/L		99
93)	trans-1,4-Dichloro-2-B...	13.072	53	124567	95.19	ug/L		85
94)	1,2,3-Trichloropropane	13.054	110	117563	93.39	ug/L		94
95)	Cyclohexanone	13.115	55	176899	467.88	ug/L		96
96)	4-Chlorotoluene	13.188	91	639127	87.91	ug/L		98
97)	tert-Butylbenzene	13.359	91	400564	81.94	ug/L		95
98)	1,2,4-Trimethylbenzene	13.426	105	722373	87.90	ug/L		99
99)	Pentachloroethane	13.408	167	136153	99.29	ug/L		94
100)	sec-Butylbenzene	13.542	105	823169	86.14	ug/L		98
101)	4-Isopropyltoluene	13.676	119	714681	86.44	ug/L		99
102)	1,3-Dichlorobenzene	13.804	146	410322	92.39	ug/L		98
103)	1,2,3-Trimethylbenzene	13.889	105	722862	89.17	ug/L		99
104)	1,4-Dichlorobenzene	13.895	146	431695	89.82	ug/L		98
105)	n-Butylbenzene	14.121	92	417397	88.70	ug/L	#	85
106)	Benzyl Chloride	14.127	126	134949	101.67	ug/L	#	58
107)	1,2-Dichlorobenzene	14.328	146	396634	90.41	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753073.D
Acq On : 30 Nov 2022 1:31 pm
Operator : kylieg
Sample : IC2765-7
Misc : MS52729,VI2765,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 30 13:59:16 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	15.084	75	113774	87.08	ug/L	97
109) Hexachlorobutadiene	15.651	225	107149	80.64	ug/L	97
110) 1,2,4-Trichlorobenzene	15.694	180	260363	90.46	ug/L	98
111) Naphthalene	15.962	128	965012	89.04	ug/L	100
112) 1,2,3-Trichlorobenzene	16.127	180	253931	87.29	ug/L	98

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

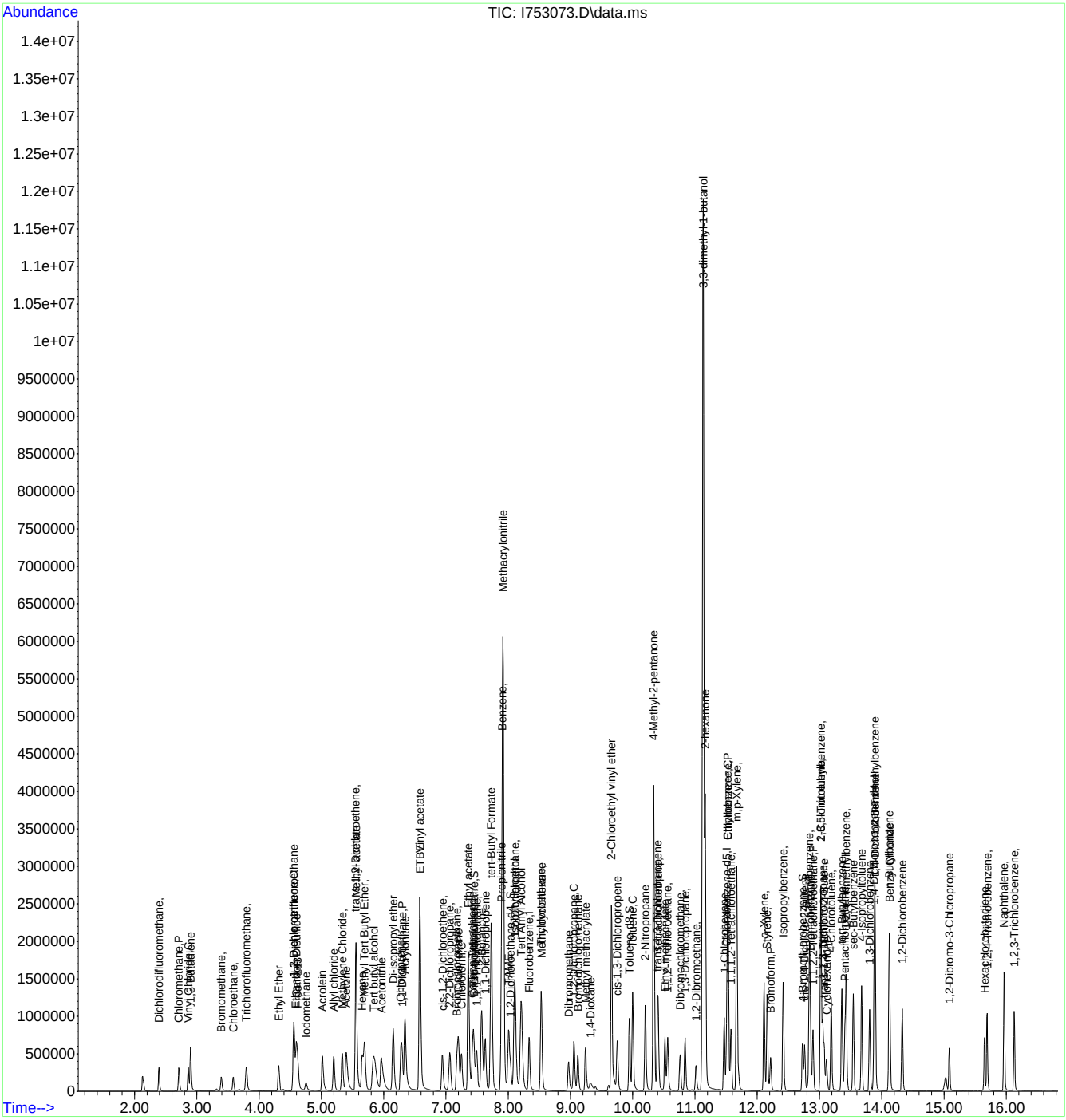
7.6.53

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753073.D
Acq On : 30 Nov 2022 1:31 pm
Operator : kylieg
Sample : IC2765-7
Misc : MS52729,VI2765,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 30 13:59:16 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration



Manual Integration Approval Summary

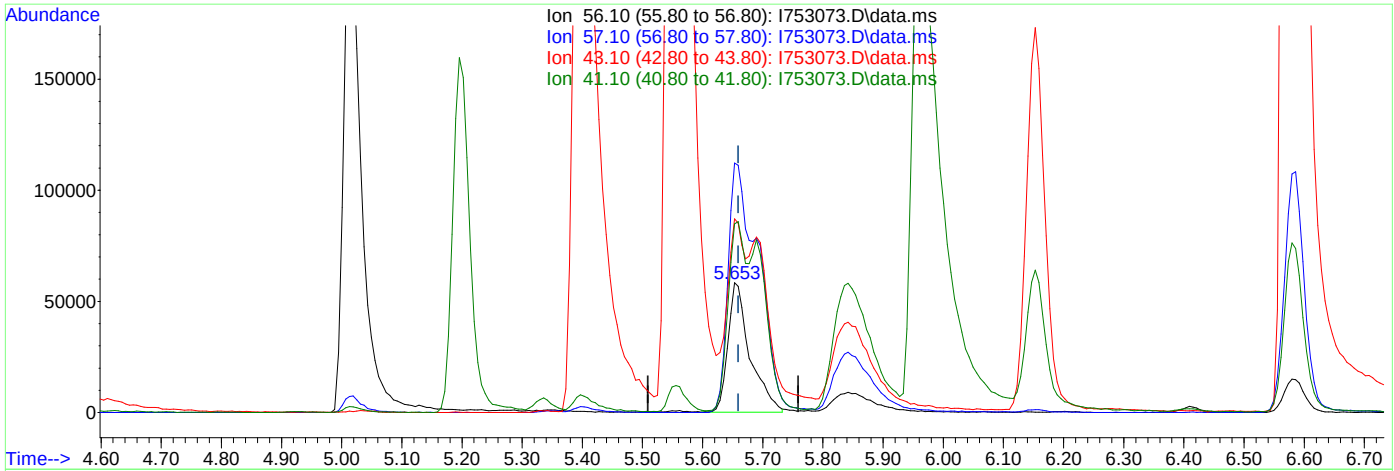
Sample Number: VI2765-IC2765
Lab FileID: I753073.D
Injection Time: 11/30/22 13:31
Method: SW846 8260D
Analyst approved: 11/30/22 14:46 Jo-Ann Lugo De Jesus
Supervisor approved: 12/01/22 18:35 Shanica O'Connor

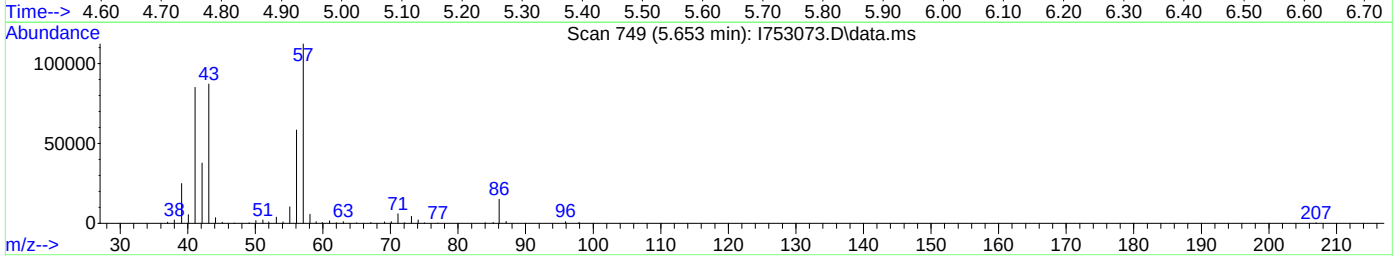
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		5.65	Overlapping peak
3,3-Dimethyl-1-Butanol	624-95-3		11.13	Overlapping peak

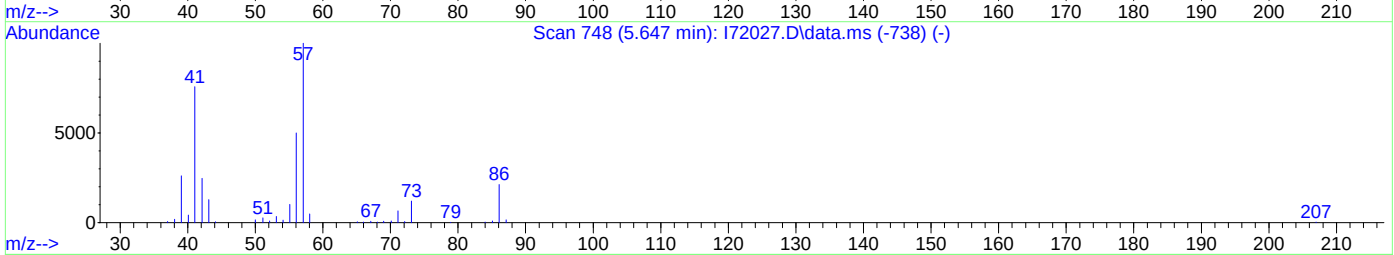
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753073.D
Acq On : 30 Nov 2022 1:31 pm
Operator : kylieg
Sample : IC2765-7
Misc : MS52729,VI2765,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 30 13:58:46 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753073.D\data.ms

(22) Hexane

5.653min (-0.006) 98.53ug/L

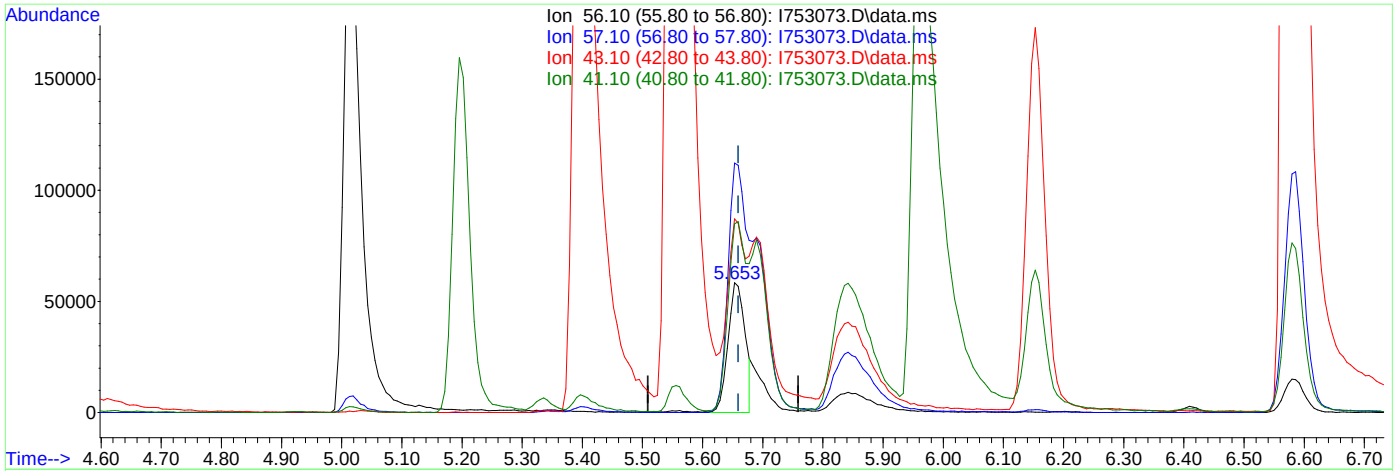
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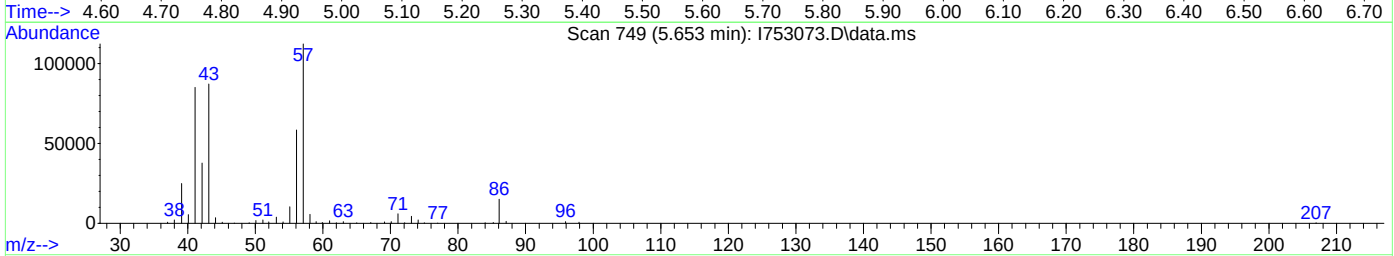
Ion	Exp%	Act%
56.10	100	100
57.10	202.70	193.13
43.10	151.20	130.05
41.10	159.40	144.16

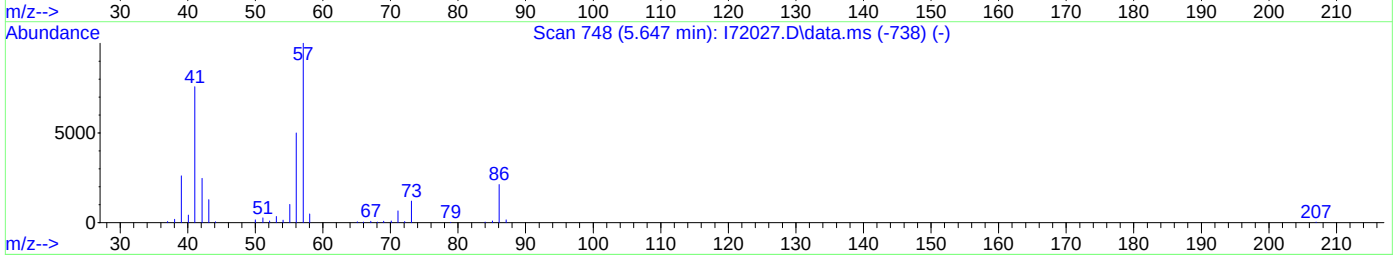
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753073.D
Acq On : 30 Nov 2022 1:31 pm
Operator : kylieg
Sample : IC2765-7
Misc : MS52729,VI2765,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 30 13:58:46 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753073.D\data.ms

(22) Hexane

5.653min (-0.006) 75.72ug/L m

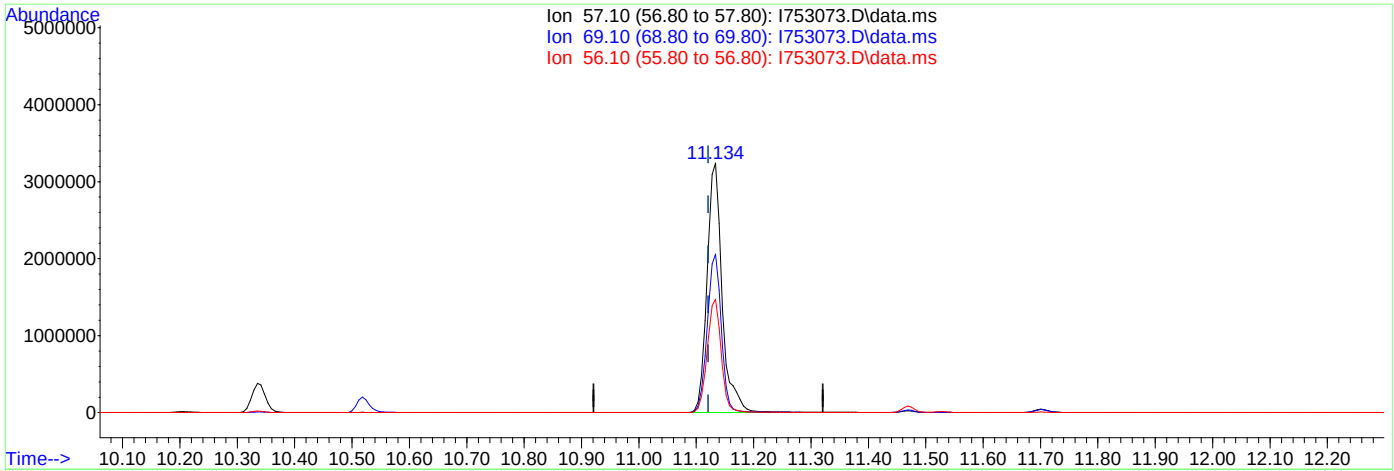
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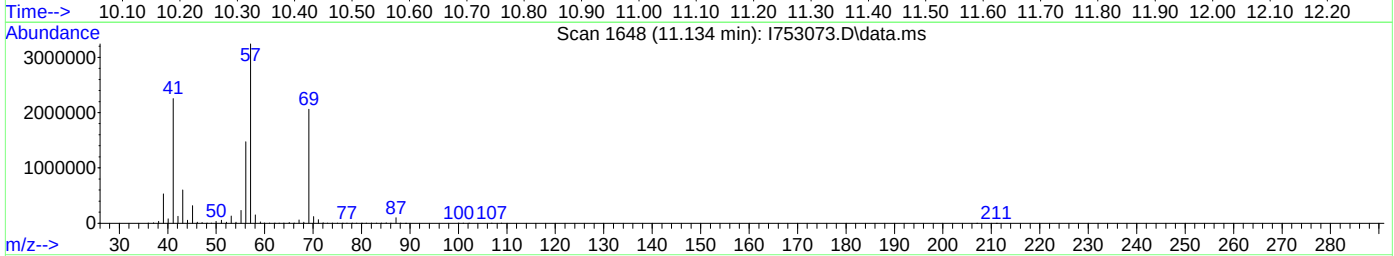
Ion	Exp%	Act%
56.10	100	100
57.10	202.70	192.35
43.10	151.20	149.23
41.10	159.40	145.48

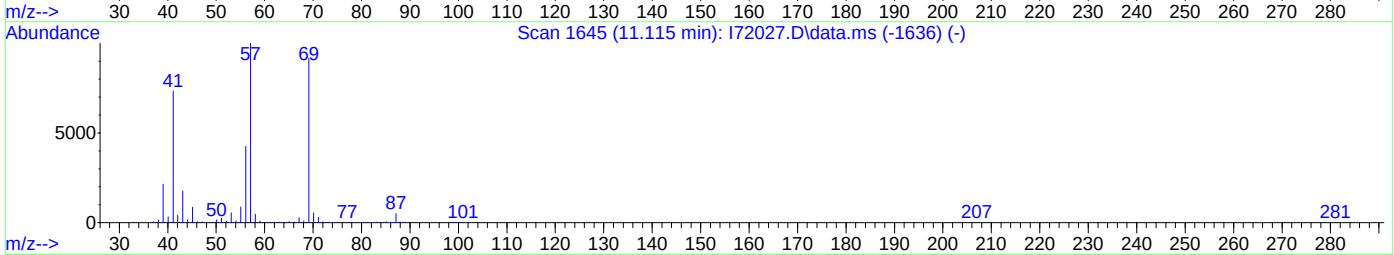
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753073.D
Acq On : 30 Nov 2022 1:31 pm
Operator : kylieg
Sample : IC2765-7
Misc : MS52729,VI2765,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 30 13:58:46 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753073.D\data.ms

(74) 3,3-dimethyl-1-butanol

11.134min (+0.013) 5924.06ug/L

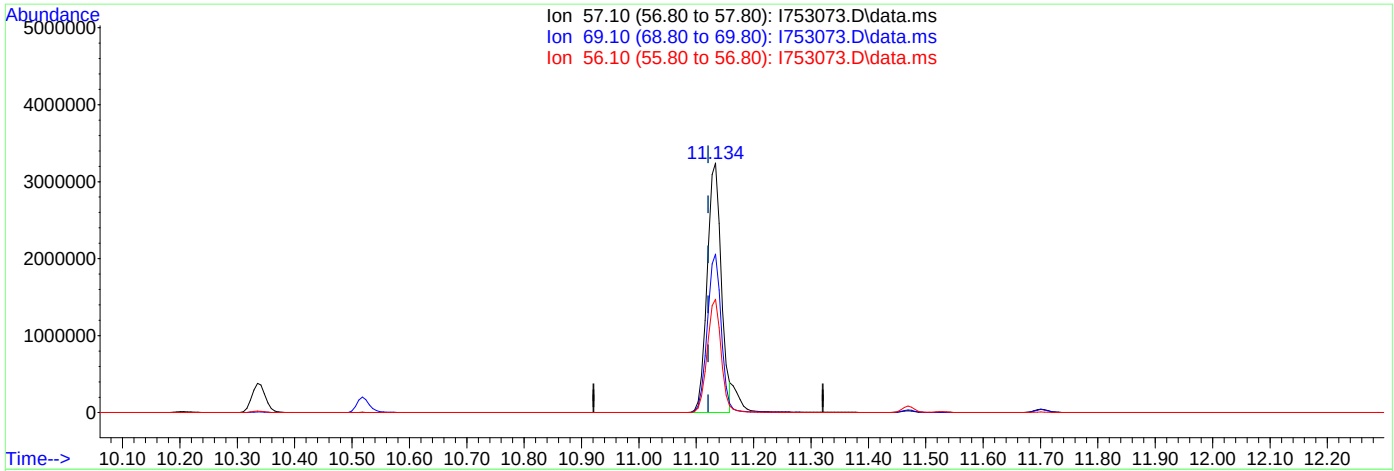
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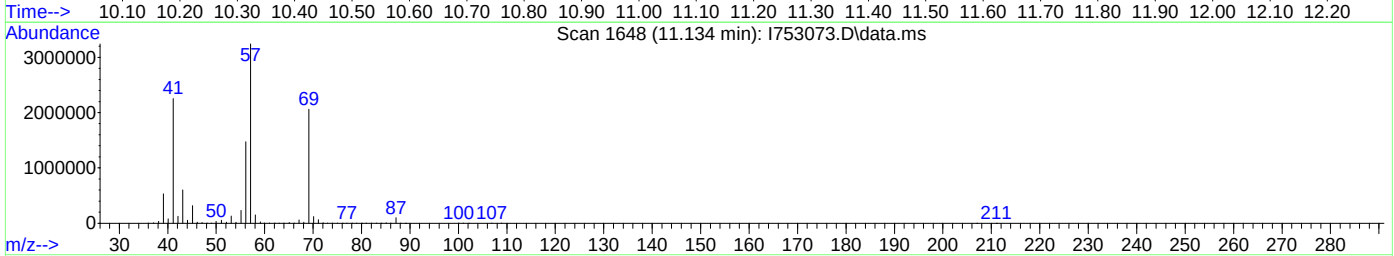
Ion	Exp%	Act%
57.10	100	100
69.10	68.80	63.44
56.10	44.10	45.37
0.00	0.00	0.00

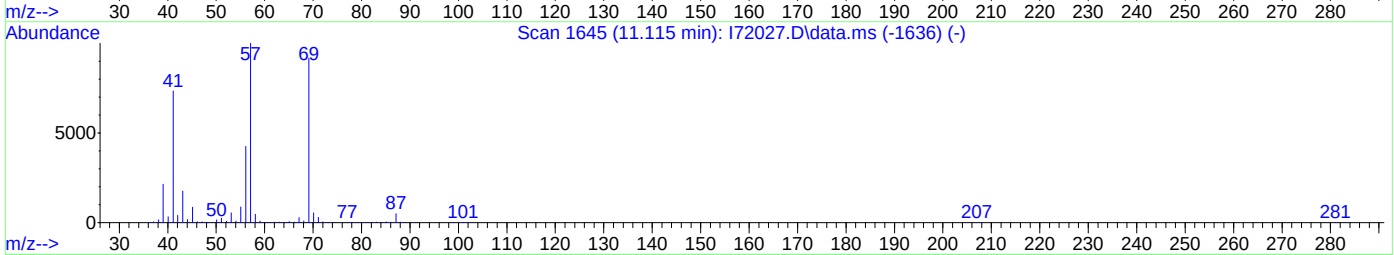
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753073.D
Acq On : 30 Nov 2022 1:31 pm
Operator : kylieg
Sample : IC2765-7
Misc : MS52729,VI2765,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 30 13:58:46 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Oct 25 09:03:29 2022
Response via : Initial Calibration







TIC: I753073.D\data.ms

(74) 3,3-dimethyl-1-butanol

11.134min (+0.013) 5522.97ug/L m

response 5549476

Ion	Exp%	Act%
57.10	100	100
69.10	68.80	63.46
56.10	44.10	45.38
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Shanica O'Connor
12/01/22 18:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753075.D
Acq On : 30 Nov 2022 2:19 pm
Operator : kylieg
Sample : ICV2765-5
Misc : MS52729,VI2765,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 30 15:07:01 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.335	96	589363	50.00	ug/L	0.00
62) Chlorobenzene-d5	11.512	117	389714	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.877	152	188237	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.451	113	152970	48.63	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.26%			
49) 1,2-Dichloroethane-d4	8.037	65	174359	48.03	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.06%			
63) Toluene-d8	9.945	98	562369	51.17	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.34%			
86) 4-Bromofluorobenzene	12.725	174	155320	50.14	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.28%			
Target Compounds						Qvalue
4) Vinyl Chloride	2.861	62	96221	32.69	ug/L	98
5) 1,3-Butadiene	2.897	39	76427	32.20	ug/L	100
6) Bromomethane	3.391	94	39469	35.34	ug/L	99
7) Chloroethane	3.580	64	52000	34.58	ug/L	98
8) Trichlorofluoromethane	3.794	101	129139	37.39	ug/L	97
9) Ethyl Ether	4.306	59	75924	36.51	ug/L	99
10) 1,2-Dichlorotrifluoroe...	4.556	67	100586	35.71	ug/L	98
11) 1,1-Dichloroethene	4.556	61	144969	38.79	ug/L	97
12) Ethanol	4.568	45	81125	747.68	ug/L	86
13) Freon 113	4.617	101	67956	34.95	ug/L	99
14) Carbon Disulfide	4.598	76	228615	35.72	ug/L	98
16) Acrolein	5.019	56	40048	43.46	ug/L	93
17) Allyl chloride	5.196	41	124811	35.52	ug/L	97
18) Methylene Chloride	5.336	49	134381	35.42	ug/L	98
19) Acetone	5.397	43	364735	192.80	ug/L	100
20) Methyl acetate	5.555	43	703344	202.27	ug/L	100
21) trans-1,2-Dichloroethene	5.555	61	134091	38.14	ug/L	97
22) Hexane	5.659	56	47686m	36.45	ug/L	
23) Methyl Tert Butyl Ether	5.690	73	245382	38.87	ug/L	92
24) Tert butyl alcohol	5.824	59	445225	401.45	ug/L	99
25) Acetonitrile	5.958	41	255258	336.84	ug/L	97
26) Di-isopropyl ether	6.153	45	301319	38.87	ug/L	99
27) Chloroprene	6.275	53	124306	39.19	ug/L	98
28) 1,1-Dichloroethane	6.299	63	172195	39.23	ug/L	99
29) Acrylonitrile	6.348	53	169368	100.35	ug/L	98
30) ETBE	6.580	59	270911	37.16	ug/L	99
31) Vinyl acetate	6.580	43	1202273	225.54	ug/L	99
32) cis-1,2-Dichloroethene	6.945	96	84829	38.89	ug/L	97
33) 2,2-Dichloropropane	7.061	77	128886	36.35	ug/L	99
34) Bromochloromethane	7.177	128	36468	38.29	ug/L	95
35) Cyclohexane	7.201	56	137513	38.88	ug/L	97
36) Chloroform	7.250	83	156876	38.47	ug/L	98
37) Ethyl acetate	7.360	43	952851	206.35	ug/L	99
38) Tetrahydrofuran	7.439	42	80240	37.92	ug/L	99
40) Carbon Tetrachloride	7.433	117	115342	38.01	ug/L	100
41) 1,1,1-Trichloroethane	7.494	97	137620	37.93	ug/L	99
42) 2-Butanone	7.573	43	582596	199.63	ug/L	98
43) 1,1-Dichloropropene	7.634	75	118046	38.61	ug/L	99
44) tert-Butyl Formate	7.726	59	345373	145.99	ug/L	100
45) Propionitrile	7.884	54	333888	369.86	ug/L	99
46) Methacrylonitrile	7.915	41	980661	357.14	ug/L	98
47) Benzene	7.903	78	334211	37.84	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753075.D
Acq On : 30 Nov 2022 2:19 pm
Operator : kylieg
Sample : ICV2765-5
Misc : MS52729,VI2765,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 30 15:07:01 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48)	TAME	8.006	73	246229	41.76	ug/L	99
50)	Isobutyl alcohol	8.098	42	244690	916.67	ug/L	96
51)	1,2-Dichloroethane	8.110	62	129885	38.14	ug/L	99
52)	Tert Amyl Alcohol	8.201	59	401466	419.99	ug/L	95
53)	Trichloroethene	8.530	95	90434	38.10	ug/L	97
54)	Methylcyclohexane	8.530	83	104977	39.27	ug/L	97
55)	Dibromomethane	8.969	93	54072	38.53	ug/L	98
56)	1,2-Dichloropropane	9.055	63	87404	36.49	ug/L	98
57)	Bromodichloromethane	9.122	83	112767	39.86	ug/L	98
58)	Methyl methacrylate	9.244	41	107758	40.26	ug/L	98
59)	1,4-Dioxane	9.323	88	59400	852.46	ug/L	95
60)	2-Chloroethyl vinyl ether	9.658	63	375502	205.59	ug/L	99
61)	cis-1,3-Dichloropropene	9.750	75	127676	39.05	ug/L	97
64)	Toluene	10.000	91	344633	40.30	ug/L	97
65)	2-Nitropropane	10.201	41	202859	215.20	ug/L	99
66)	4-Methyl-2-pentanone	10.335	43	987117	204.19	ug/L	99
67)	trans-1,3-Dichloropropene	10.402	75	122976	45.89	ug/L	95
68)	Tetrachloroethene	10.408	166	94699	40.90	ug/L	97
69)	Ethyl methacrylate	10.518	69	103461	36.90	ug/L	100
70)	1,1,2-Trichloroethane	10.561	83	67499	41.18	ug/L	97
71)	Dibromochloromethane	10.762	129	83297	40.50	ug/L	98
72)	1,3-Dichloropropane	10.841	76	123481	39.20	ug/L	98
73)	1,2-Dibromoethane	11.018	107	83681	40.38	ug/L	95
74)	3,3-dimethyl-1-butanol	11.128	57	1969013m	1979.85	ug/L	
75)	2-hexanone	11.164	43	861632	199.78	ug/L	99
76)	1-Chlorohexane	11.469	91	102344	40.68	ug/L	96
77)	Ethylbenzene	11.530	91	376559	39.52	ug/L	99
78)	Chlorobenzene	11.530	112	215391	40.22	ug/L	98
79)	1,1,1,2-Tetrachloroethane	11.579	131	80757	41.47	ug/L	98
80)	m,p-Xylene	11.670	91	574214	81.71	ug/L	99
81)	o-Xylene	12.109	91	288389	42.56	ug/L	99
82)	Styrene	12.164	104	205329	39.66	ug/L	99
83)	Bromoform	12.219	173	67016	41.54	ug/L	98
84)	Isopropylbenzene	12.420	105	344582	41.66	ug/L	99
87)	cis-1,4-Dichloro-2-butene	12.761	53	42469	38.18	ug/L	93
88)	n-Propylbenzene	12.841	91	409322	40.91	ug/L	99
89)	Bromobenzene	12.853	156	84284	38.86	ug/L	96
90)	1,1,2,2-Tetrachloroethane	12.895	83	136838	40.88	ug/L	98
91)	1,3,5-Trimethylbenzene	13.024	105	280814	41.82	ug/L	99
92)	2-Chlorotoluene	13.024	91	269093	40.69	ug/L	98
93)	trans-1,4-Dichloro-2-B...	13.078	53	45037	43.56	ug/L	96
94)	1,2,3-Trichloropropane	13.054	110	40970	39.11	ug/L	95
95)	Cyclohexanone	13.115	55	67252	191.39	ug/L	96
96)	4-Chlorotoluene	13.188	91	243416	41.85	ug/L	99
97)	tert-Butylbenzene	13.359	91	153207	40.99	ug/L	98
98)	1,2,4-Trimethylbenzene	13.432	105	276454	43.10	ug/L	99
99)	Pentachloroethane	13.408	167	48072	40.41	ug/L	98
100)	sec-Butylbenzene	13.542	105	332589	42.90	ug/L	100
101)	4-Isopropyltoluene	13.676	119	286715	44.59	ug/L	99
102)	1,3-Dichlorobenzene	13.810	146	152348	41.11	ug/L	98
103)	1,2,3-Trimethylbenzene	13.889	105	291309	44.35	ug/L	99
104)	1,4-Dichlorobenzene	13.895	146	163600	39.75	ug/L	99
105)	n-Butylbenzene	14.121	92	149362	40.73	ug/L	98
106)	Benzyl Chloride	14.127	126	43034	38.13	ug/L	94
107)	1,2-Dichlorobenzene	14.328	146	147433	40.91	ug/L	98
108)	1,2-Dibromo-3-Chloropr...	15.084	75	38677	40.92	ug/L	98
109)	Hexachlorobutadiene	15.651	225	39747	37.78	ug/L	98
110)	1,2,4-Trichlorobenzene	15.694	180	93930	41.19	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753075.D
Acq On : 30 Nov 2022 2:19 pm
Operator : kylieg
Sample : ICV2765-5
Misc : MS52729,VI2765,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 30 15:07:01 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

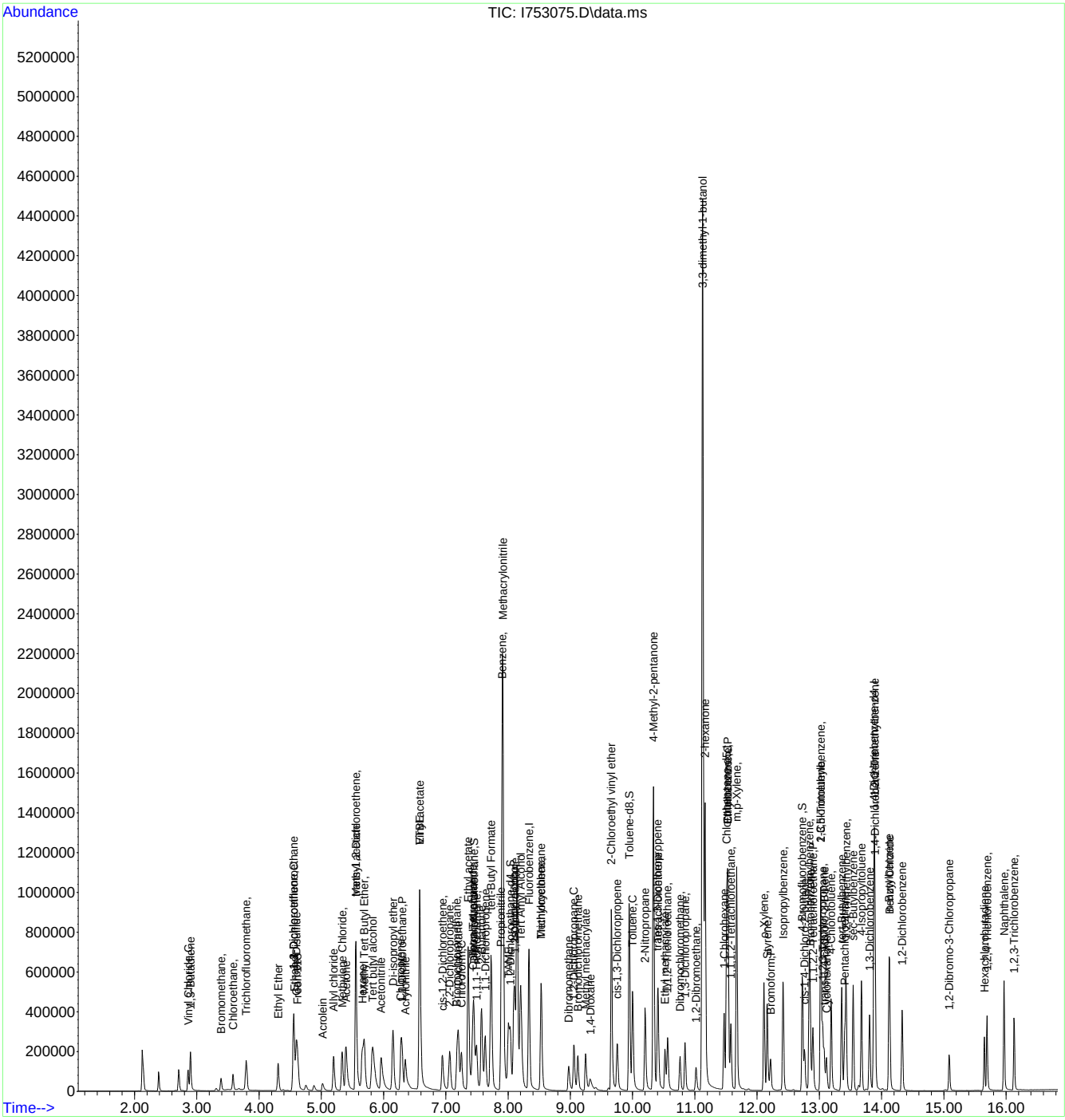
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
111) Naphthalene	15.968	128	340243	43.06	ug/L	99
112) 1,2,3-Trichlorobenzene	16.127	180	91676	40.75	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753075.D
Acq On : 30 Nov 2022 2:19 pm
Operator : kylieg
Sample : ICV2765-5
Misc : MS52729,VI2765,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 30 15:07:01 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration



Manual Integration Approval Summary

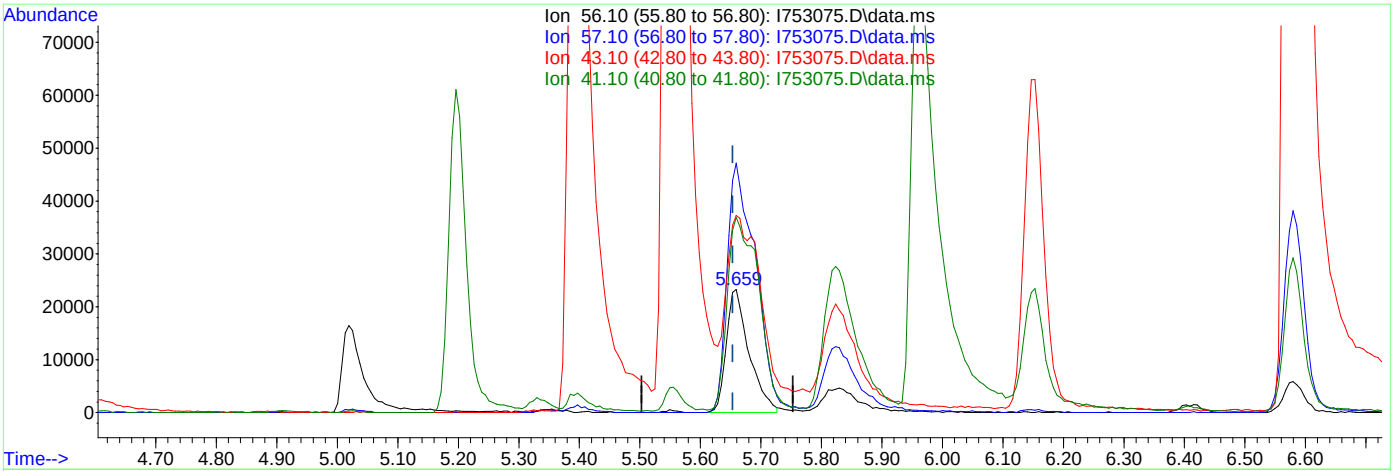
Sample Number: VI2765-ICV2765 **Method:** SW846 8260D
Lab FileID: I753075.D **Analyst approved:** 11/30/22 15:09 Jo-Ann Lugo De Jesus
Injection Time: 11/30/22 14:19 **Supervisor approved:** 12/01/22 18:35 Shanica O'Connor

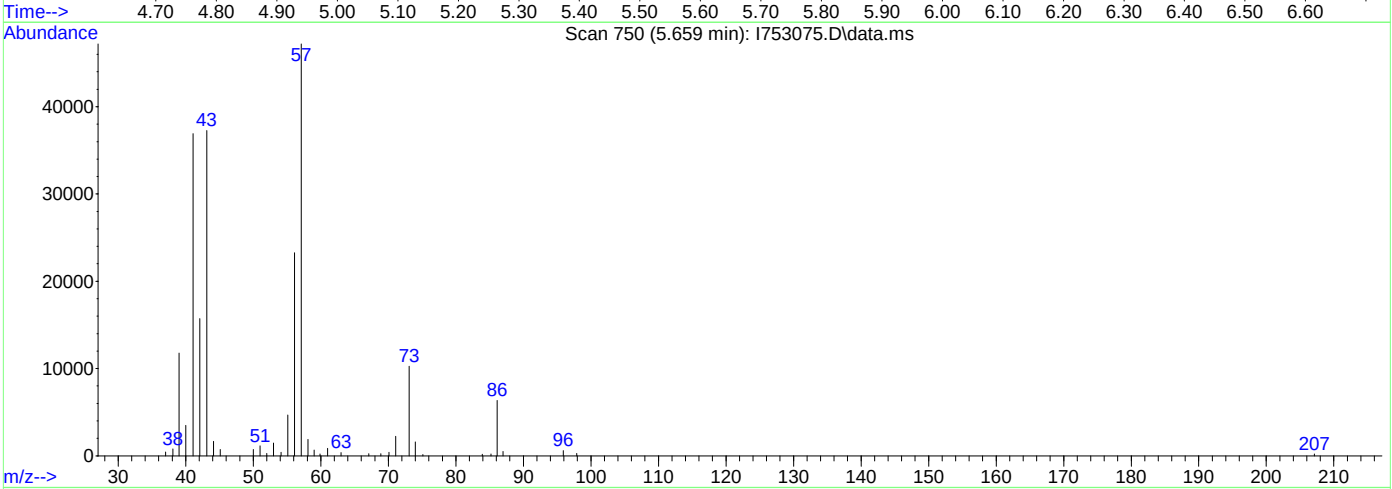
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		5.66	Overlapping peak
3,3-Dimethyl-1-Butanol	624-95-3		11.13	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753075.D
Acq On : 30 Nov 2022 2:19 pm
Operator : kylieg
Sample : ICV2765-5
Misc : MS52729,VI2765,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 30 14:40:39 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration





TIC: I753075.D\data.ms

(22) Hexane

5.659min (+0.006) 46.67ug/L

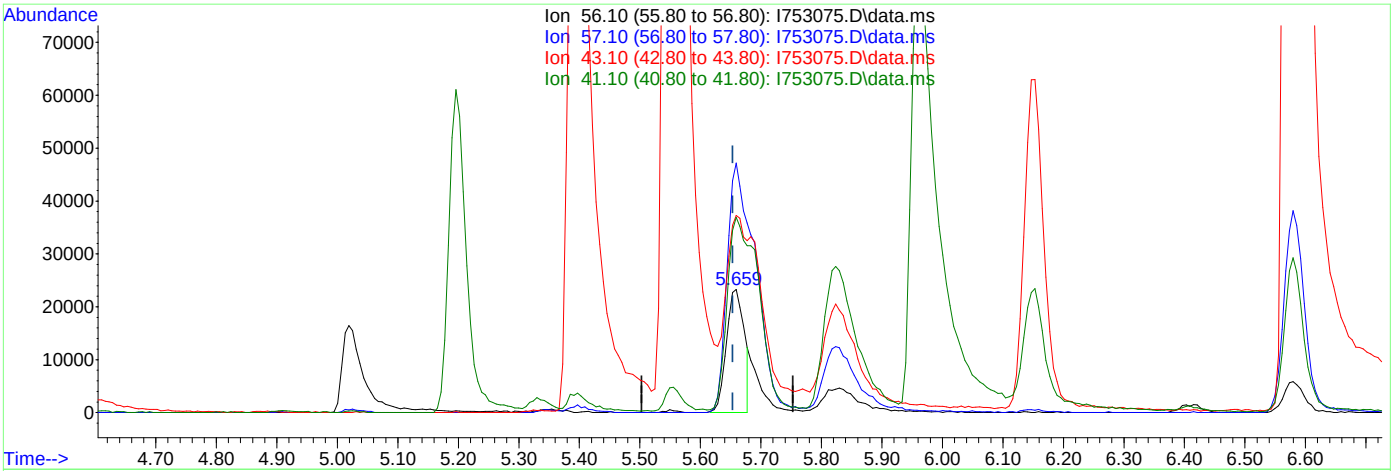
response 61044

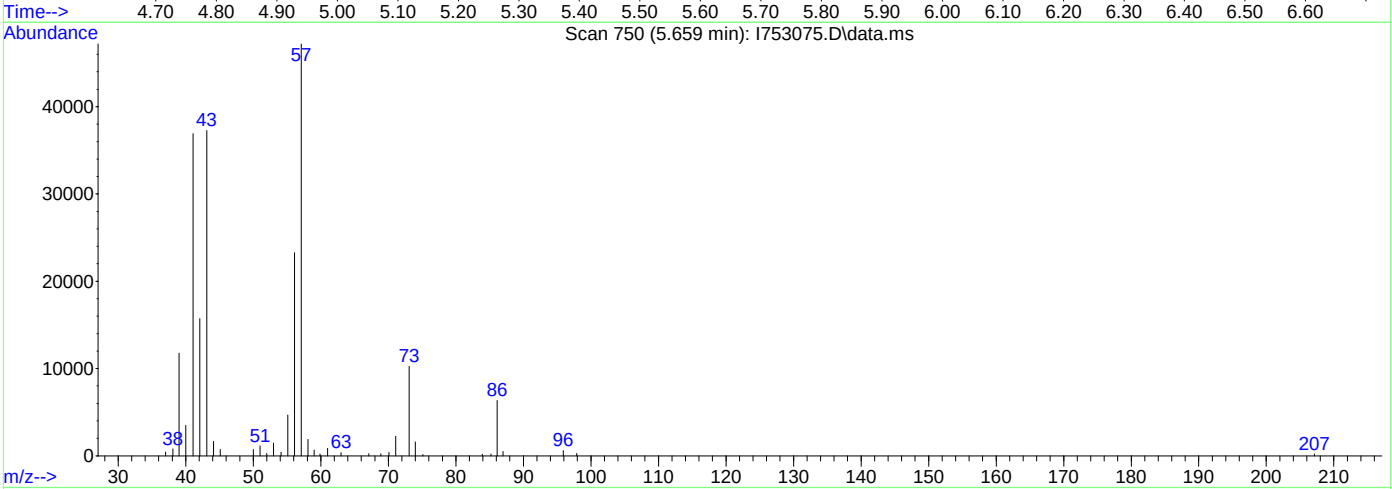
Ion	Exp%	Act%
56.10	100	100
57.10	195.30	202.85
43.10	151.70	133.00
41.10	148.90	155.87

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753075.D
Acq On : 30 Nov 2022 2:19 pm
Operator : kylieg
Sample : ICV2765-5
Misc : MS52729,VI2765,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 30 14:40:39 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration





TIC: I753075.D\data.ms

(22) Hexane

5.659min (+0.006) 36.45ug/L m

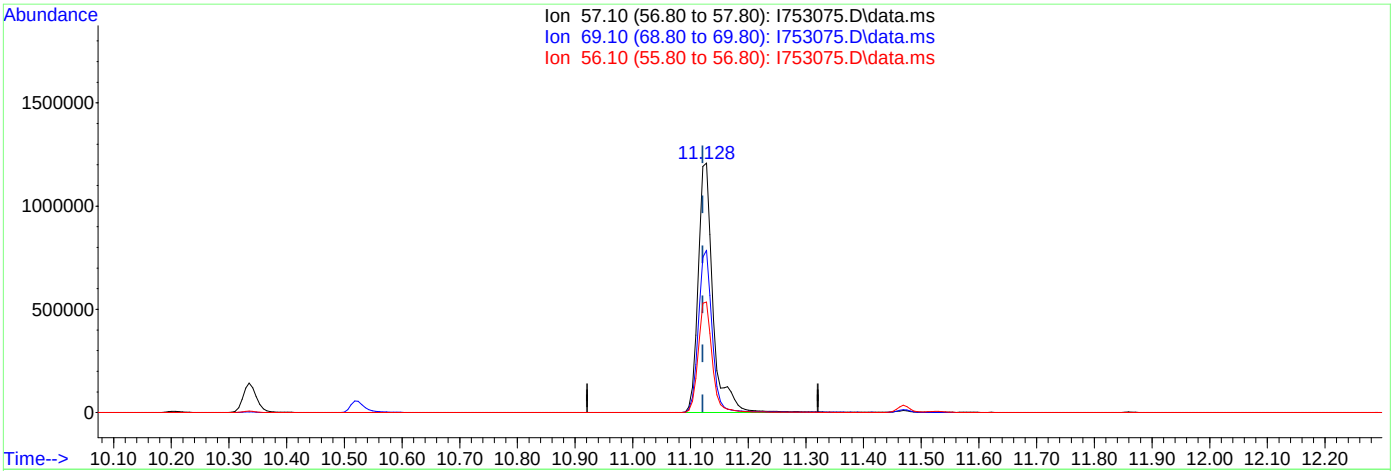
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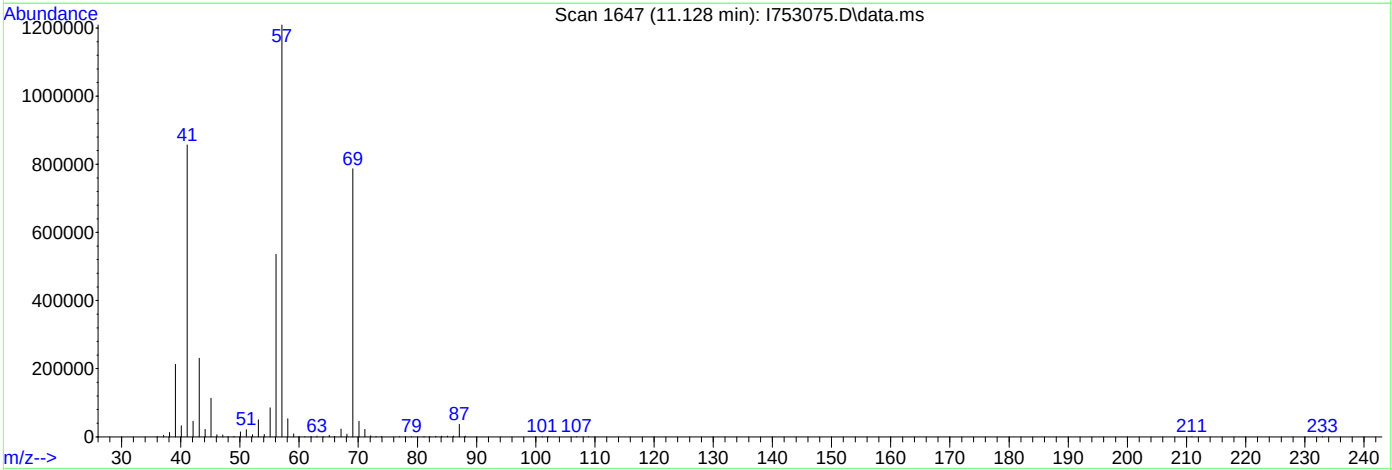
Ion	Exp%	Act%
56.10	100	100
57.10	195.30	202.85
43.10	151.70	160.12
41.10	148.90	158.61

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753075.D
Acq On : 30 Nov 2022 2:19 pm
Operator : kylieg
Sample : ICV2765-5
Misc : MS52729,VI2765,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 30 14:40:39 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration





TIC: I753075.D\data.ms

(74) 3,3-dimethyl-1-butanol

11.128min (+0.007) 2195.30ug/L

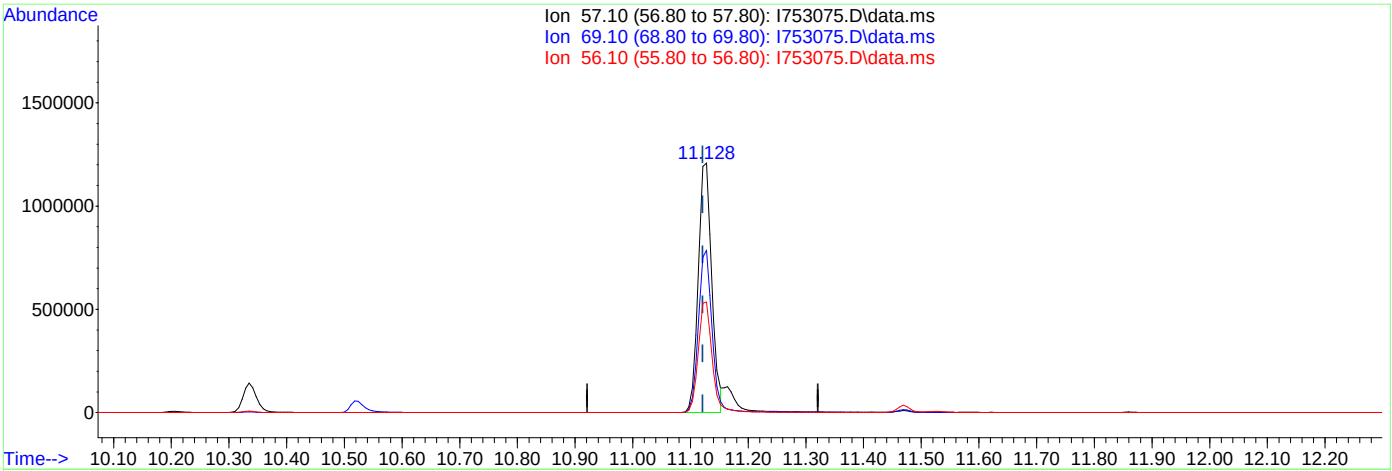
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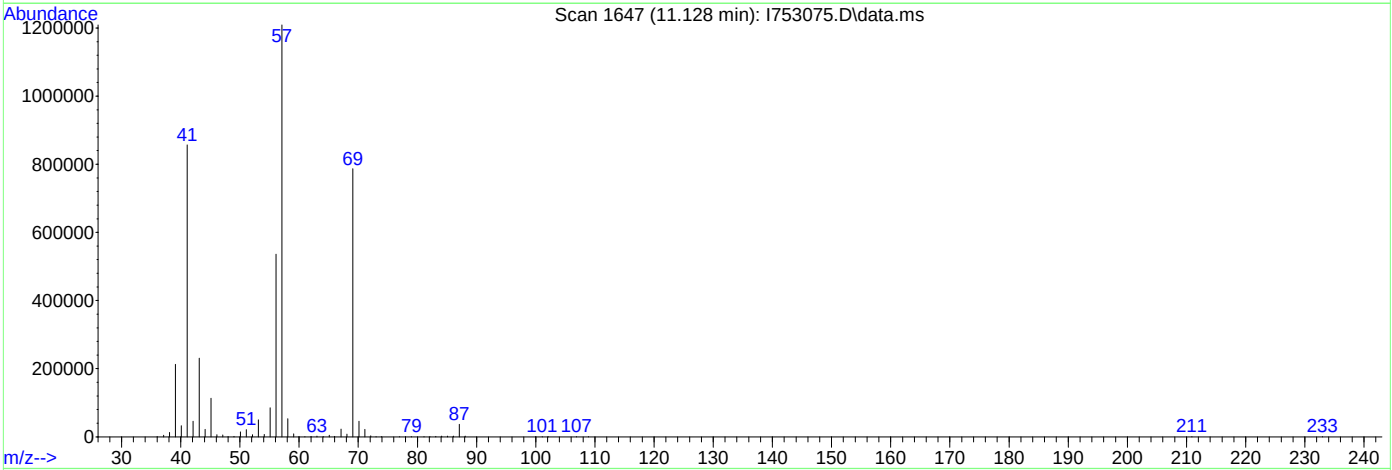
Ion	Exp%	Act%
57.10	100	100
69.10	62.70	65.07
56.10	44.30	44.30
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753075.D
Acq On : 30 Nov 2022 2:19 pm
Operator : kylieg
Sample : ICV2765-5
Misc : MS52729,VI2765,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 30 14:40:39 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration





TIC: I753075.D\data.ms

(74) 3,3-dimethyl-1-butanol

11.128min (+0.007) 1979.85ug/L m

response 1969013

Ion	Exp%	Act%
57.10	100	100
69.10	62.70	65.07
56.10	44.30	44.30
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753076.D
Acq On : 30 Nov 2022 2:42 pm
Operator : kylieg
Sample : ICV2765-4
Misc : MS52729,VI2765,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 30 15:03:52 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

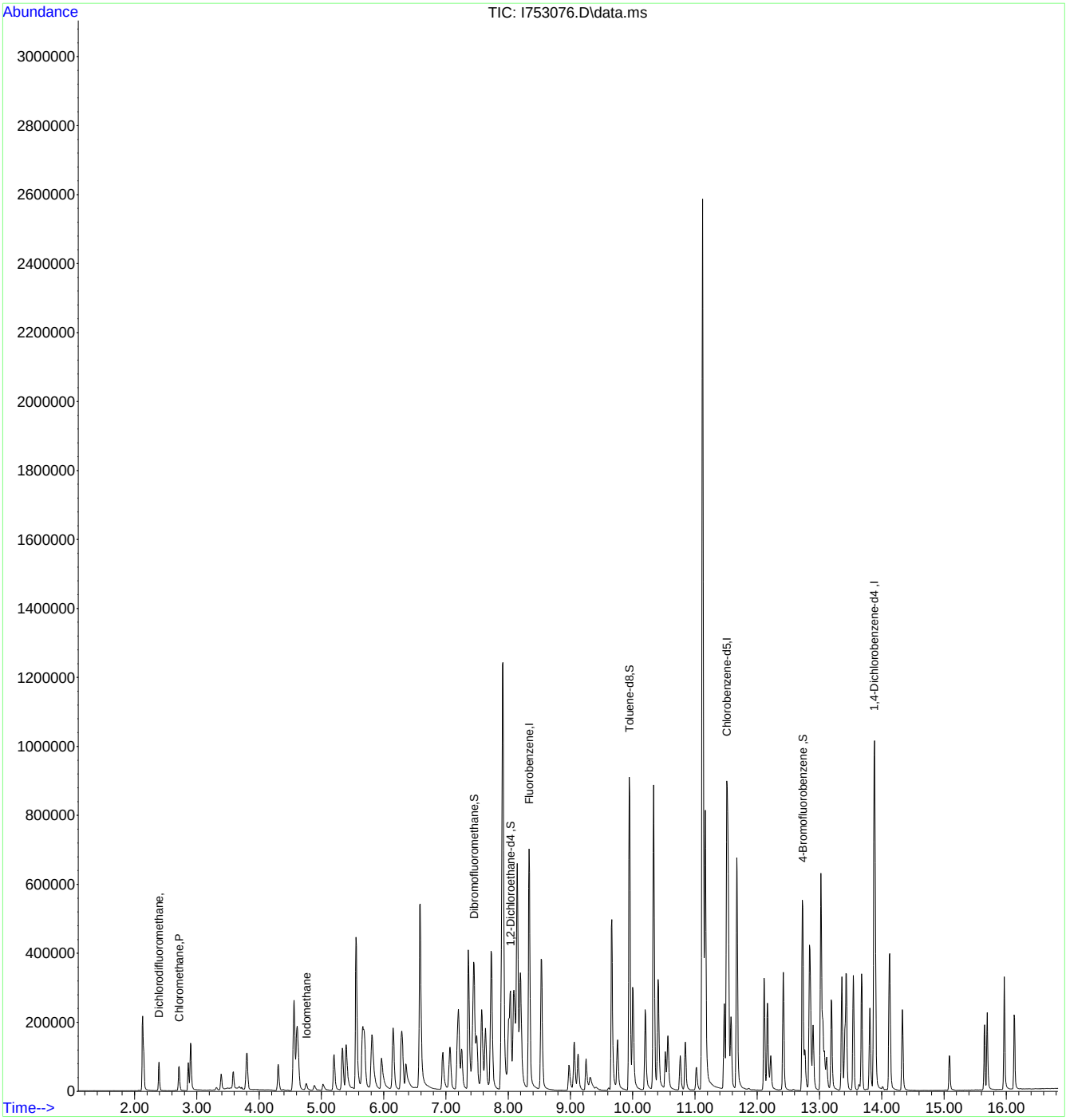
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		8.335	96	583246	50.00	ug/L	0.00
62) Chlorobenzene-d5		11.512	117	381522	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4		13.877	152	183118	50.00	ug/L	0.00
System Monitoring Compounds							
39) Dibromofluoromethane		7.451	113	151424	48.64	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	97.28%		
49) 1,2-Dichloroethane-d4		8.037	65	179289	49.91	ug/L	0.00
Spiked Amount	50.000	Range 79 - 125		Recovery =	99.82%		
63) Toluene-d8		9.945	98	556479	51.72	ug/L	0.00
Spiked Amount	50.000	Range 85 - 112		Recovery =	103.44%		
86) 4-Bromofluorobenzene		12.731	174	151523	50.28	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	100.56%		
Target Compounds							Qvalue
2) Dichlorodifluoromethane		2.391	85	58669	23.03	ug/L	99
3) Chloromethane		2.714	50	66828	20.81	ug/L	100
15) Iodomethane		4.757	142	29324	17.70	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2022-11-30\
Data File : I753076.D
Acq On : 30 Nov 2022 2:42 pm
Operator : kylieg
Sample : ICV2765-4
Misc : MS52729,VI2765,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 30 15:03:52 2022
Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira
12/16/22 03:17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753616.d
Acq On : 15 Dec 2022 9:44 am
Operator : kylieg
Sample : cc2765-5 Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:08:05 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.335	96	355681	50.00	ug/L	0.00
62) Chlorobenzene-d5	11.512	117	277773	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.877	152	145237	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.451	113	99528	52.43	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.86%			
49) 1,2-Dichloroethane-d4	8.037	65	114145	52.10	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 104.20%			
63) Toluene-d8	9.945	98	358761	45.80	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 91.60%			
86) 4-Bromofluorobenzene	12.725	174	115479	48.31	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.62%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.385	85	68960	45.28	ug/L	97
3) Chloromethane	2.708	50	96562	50.91	ug/L	100
4) Vinyl Chloride	2.861	62	82403	46.39	ug/L	98
5) 1,3-Butadiene	2.897	39	66517	46.43	ug/L	99
6) Bromomethane	3.385	94	47385	69.10	ug/L	96
7) Chloroethane	3.580	64	60933	72.17	ug/L	99
8) Trichlorofluoromethane	3.812	101	110699	53.11	ug/L	96
9) Ethyl Ether	4.293	59	50932	40.58	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.556	67	76696	45.12	ug/L	95
11) 1,1-Dichloroethene	4.562	61	99808	44.26	ug/L	97
12) Ethanol	4.525	45	38440	587.04	ug/L	91
13) Freon 113	4.623	101	50200	42.79	ug/L	96
14) Carbon Disulfide	4.604	76	166682	43.15	ug/L	95
15) Iodomethane	4.751	142	87020	90.44	ug/L	97
16) Acrolein	5.007	56	104500	187.63	ug/L	99
17) Allyl chloride	5.196	41	98171	46.29	ug/L	93
18) Methylene Chloride	5.330	49	99204	44.05	ug/L	95
19) Acetone	5.385	43	207595	181.83	ug/L	99
20) Methyl acetate	5.549	43	397637	189.49	ug/L	98
21) trans-1,2-Dichloroethene	5.555	61	92052	43.39	ug/L	99
22) Hexane	5.659	56	39218	49.68	ug/L	92
23) Methyl Tert Butyl Ether	5.683	73	164628	43.21	ug/L	96
24) Tert butyl alcohol	5.799	59	225182	336.44	ug/L	97
25) Acetonitrile	5.952	41	159952	349.75	ug/L	99
26) Di-isopropyl ether	6.147	45	206199	44.08	ug/L	96
27) Chloroprene	6.275	53	90455	47.25	ug/L	97
28) 1,1-Dichloroethane	6.293	63	116203	43.87	ug/L	98
29) Acrylonitrile	6.336	53	201457	193.16	ug/L	99
30) ETBE	6.573	59	192524	43.76	ug/L	98
31) Vinyl acetate	6.580	43	716440	222.92	ug/L	99
32) cis-1,2-Dichloroethene	6.945	96	57558	43.73	ug/L	96
33) 2,2-Dichloropropane	7.061	77	94499	44.17	ug/L	99
34) Bromochloromethane	7.177	128	28730	49.98	ug/L	95
35) Cyclohexane	7.201	56	93593	43.85	ug/L	98
36) Chloroform	7.244	83	110907	45.06	ug/L	96
37) Ethyl acetate	7.354	43	575897	206.64	ug/L	98
38) Tetrahydrofuran	7.439	42	45958	35.96	ug/L	96
40) Carbon Tetrachloride	7.427	117	86003	46.96	ug/L	99
41) 1,1,1-Trichloroethane	7.494	97	97385	44.48	ug/L	99
42) 2-Butanone	7.567	43	328346	187.02	ug/L	94
43) 1,1-Dichloropropene	7.634	75	81669	44.27	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753616.d
Acq On : 15 Dec 2022 9:44 am
Operator : kylieg
Sample : cc2765-5 Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:08:05 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) tert-Butyl Formate	7.726	59	310126	216.28	ug/L	99
45) Propionitrile	7.878	54	208394	382.52	ug/L	91
46) Methacrylonitrile	7.909	41	720991	435.08	ug/L	99
47) Benzene	7.902	78	232769	43.67	ug/L	94
48) TAME	8.000	73	156150	43.88	ug/L	96
50) Isobutyl alcohol	8.079	42	116272	721.77	ug/L	94
51) 1,2-Dichloroethane	8.110	62	94697	46.07	ug/L	99
52) Tert Amyl Alcohol	8.189	59	194279	336.77	ug/L	99
53) Trichloroethene	8.530	95	62862	43.88	ug/L	99
54) Methylcyclohexane	8.530	83	66141	40.99	ug/L	91
55) Dibromomethane	8.969	93	38900	45.93	ug/L	96
56) 1,2-Dichloropropane	9.055	63	65176	45.09	ug/L	94
57) Bromodichloromethane	9.116	83	78121	45.75	ug/L	98
58) Methyl methacrylate	9.244	41	73301	44.85	ug/L	94
59) 1,4-Dioxane	9.311	88	21197	496.43	ug/L	94
60) 2-Chloroethyl vinyl ether	9.658	63	249539	226.38	ug/L	97
61) cis-1,3-Dichloropropene	9.750	75	90089	45.65	ug/L	95
64) Toluene	10.000	91	234627	38.49	ug/L	97
65) 2-Nitropropane	10.201	41	135818	204.05	ug/L	94
66) 4-Methyl-2-pentanone	10.329	43	677578	196.64	ug/L	96
67) trans-1,3-Dichloropropene	10.396	75	82038	42.95	ug/L	98
68) Tetrachloroethene	10.408	166	67157	40.70	ug/L	98
69) Ethyl methacrylate	10.518	69	81089	40.32	ug/L	90
70) 1,1,2-Trichloroethane	10.560	83	46589	39.88	ug/L	97
71) Dibromochloromethane	10.762	129	62041	42.32	ug/L	97
72) 1,3-Dichloropropane	10.841	76	89426	39.83	ug/L	97
73) 1,2-Dibromoethane	11.018	107	58467	39.58	ug/L	99
74) 3,3-dimethyl-1-butanol	11.121	57	1026436m	1448.01	ug/L	
75) 2-hexanone	11.164	43	558046	181.64	ug/L	98
76) 1-Chlorohexane	11.469	91	71013	39.60	ug/L	99
77) Ethylbenzene	11.530	91	268451	39.52	ug/L	99
78) Chlorobenzene	11.530	112	152696	40.00	ug/L	98
79) 1,1,1,2-Tetrachloroethane	11.579	131	58177	41.91	ug/L	99
80) m,p-Xylene	11.670	91	410033	81.87	ug/L	99
81) o-Xylene	12.109	91	196838	40.76	ug/L	100
82) Styrene	12.158	104	145517	39.44	ug/L	96
83) Bromoform	12.213	173	49283	42.76	ug/L	97
84) Isopropylbenzene	12.414	105	240840	40.85	ug/L	99
87) cis-1,4-Dichloro-2-butene	12.761	53	35366	40.99	ug/L	97
88) n-Propylbenzene	12.834	91	292496	37.89	ug/L	99
89) Bromobenzene	12.853	156	64461	38.52	ug/L	97
90) 1,1,2,2-Tetrachloroethane	12.895	83	95957	37.16	ug/L	97
91) 1,3,5-Trimethylbenzene	13.017	105	204393	39.45	ug/L	99
92) 2-Chlorotoluene	13.023	91	196480	38.51	ug/L	96
93) trans-1,4-Dichloro-2-B...	13.078	53	30052	37.68	ug/L	94
94) 1,2,3-Trichloropropane	13.048	110	30251	37.43	ug/L	93
95) Cyclohexanone	13.109	55	32304	117.86	ug/L	94
96) 4-Chlorotoluene	13.188	91	172637	38.47	ug/L	97
97) tert-Butylbenzene	13.359	91	109045	37.81	ug/L	97
98) 1,2,4-Trimethylbenzene	13.426	105	196848	39.77	ug/L	99
99) Pentachloroethane	13.408	167	38248	41.67	ug/L	97
100) sec-Butylbenzene	13.542	105	229887	38.44	ug/L	98
101) 4-Isopropyltoluene	13.676	119	198462	40.01	ug/L	99
102) 1,3-Dichlorobenzene	13.804	146	111115	38.86	ug/L	97
103) 1,2,3-Trimethylbenzene	13.889	105	194940	38.46	ug/L	97
104) 1,4-Dichlorobenzene	13.895	146	119564	37.65	ug/L	99
105) n-Butylbenzene	14.121	92	114875	40.60	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753616.d
Acq On : 15 Dec 2022 9:44 am
Operator : kylieg
Sample : cc2765-5 Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:08:05 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) Benzyl Chloride	14.127	126	32945	37.85	ug/L	98
107) 1,2-Dichlorobenzene	14.328	146	110623	39.79	ug/L	99
108) 1,2-Dibromo-3-Chloropr...	15.084	75	24946	34.21	ug/L	95
109) Hexachlorobutadiene	15.651	225	32381	39.90	ug/L	97
110) 1,2,4-Trichlorobenzene	15.694	180	70257	39.93	ug/L	96
111) Naphthalene	15.968	128	237772	39.00	ug/L	99
112) 1,2,3-Trichlorobenzene	16.126	180	71374	41.11	ug/L	98

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

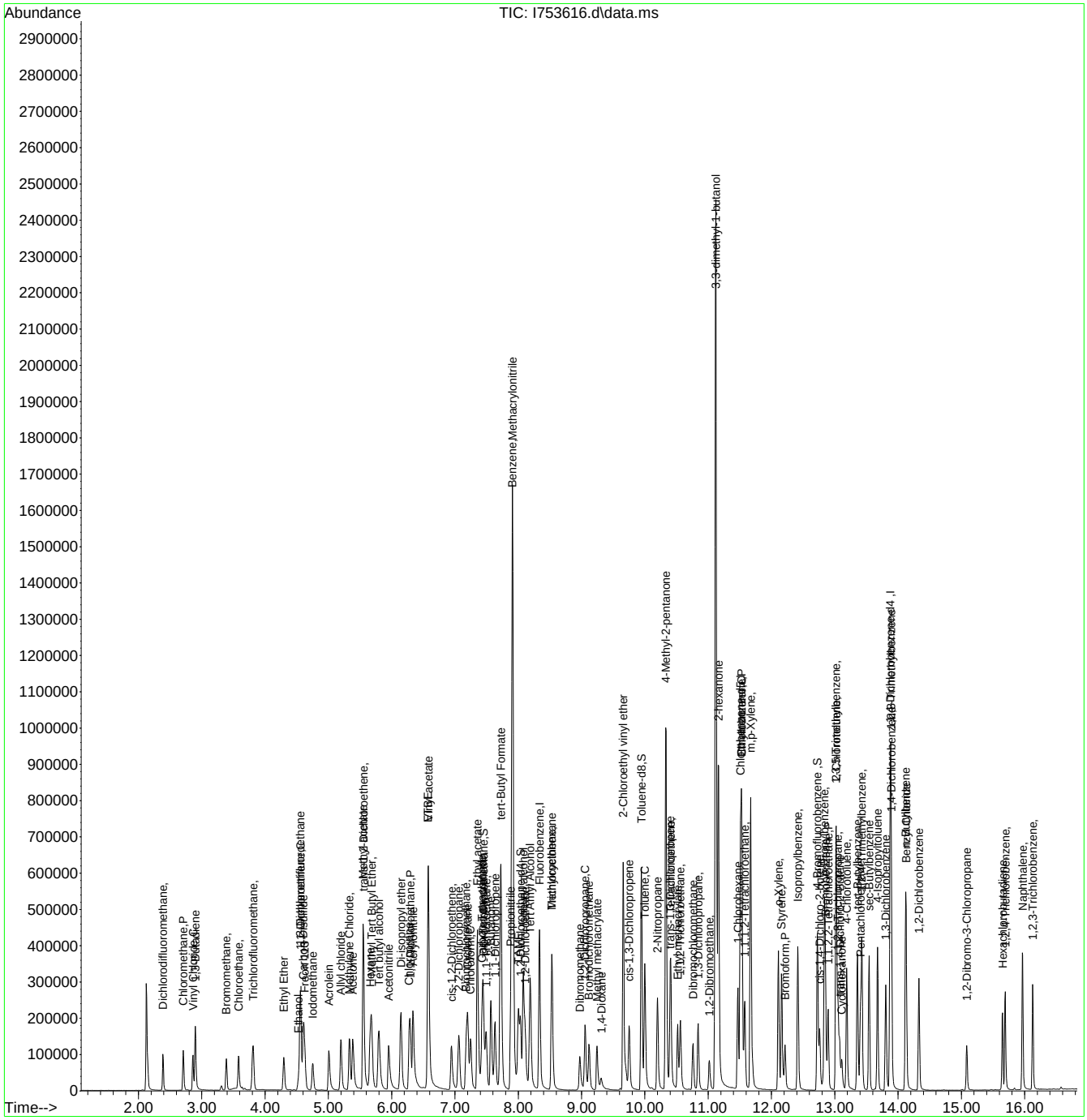
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7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753616.d
Acq On : 15 Dec 2022 9:44 am
Operator : kylieg
Sample : cc2765-5 Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:08:05 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: VI2788-CC2765
Lab FileID: I753616.D
Injection Time: 12/15/22 09:44

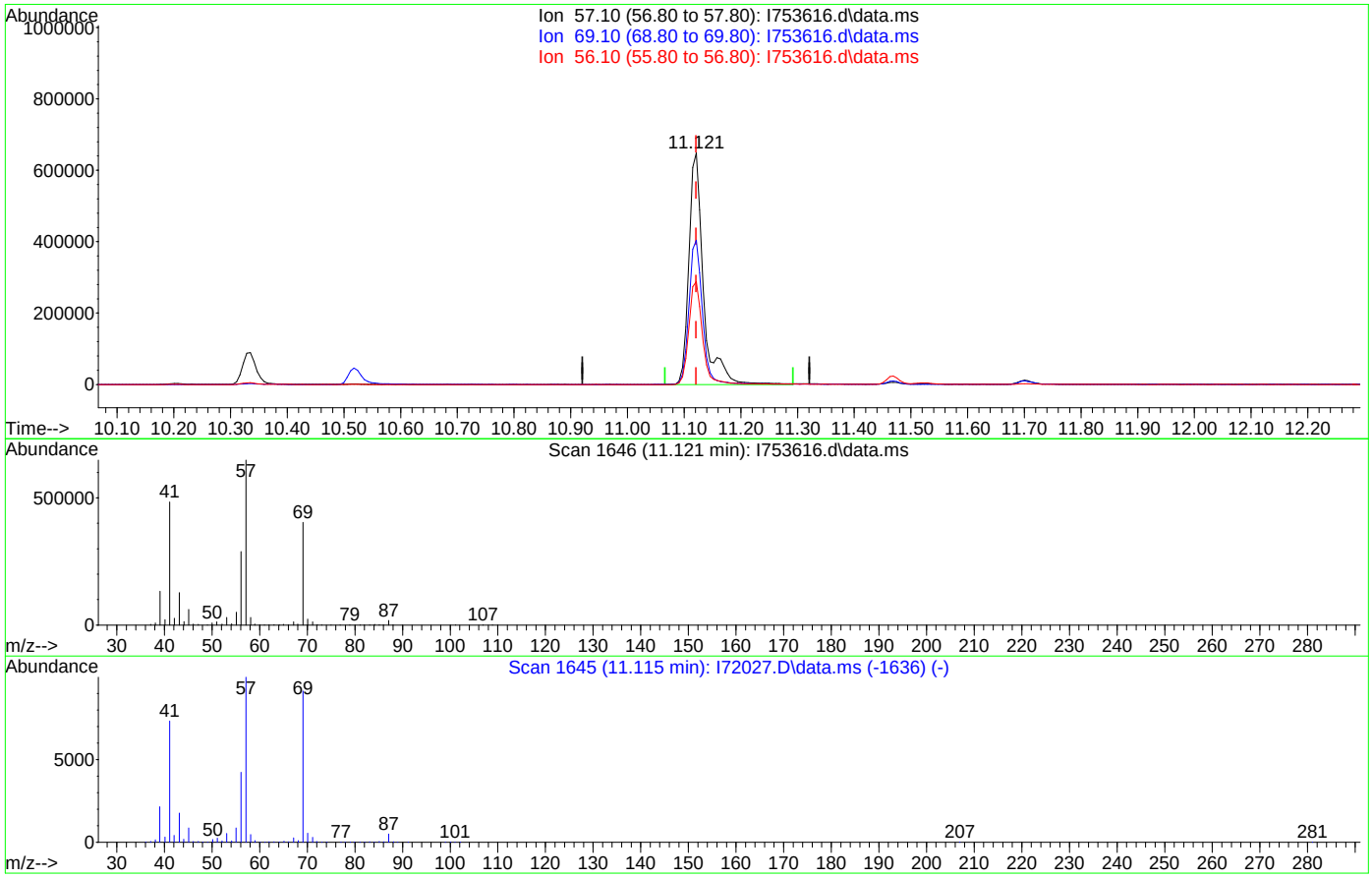
Method: SW846 8260D
Analyst approved: 12/16/22 03:11 Jennifer Fereira
Supervisor approved: 12/16/22 03:17 Jennifer Fereira

Parameter	CAS	Sig#	R.T. (min.)	Reason
3,3-Dimethyl-1-Butanol	624-95-3		11.12	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753616.d
Acq On : 15 Dec 2022 9:44 am
Operator : kylieg
Sample : cc2765-5 Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:04:40 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration



TIC: I753616.d\data.ms

(74) 3,3-dimethyl-1-butanol

11.121min (+0.000) 1644.98ug/L

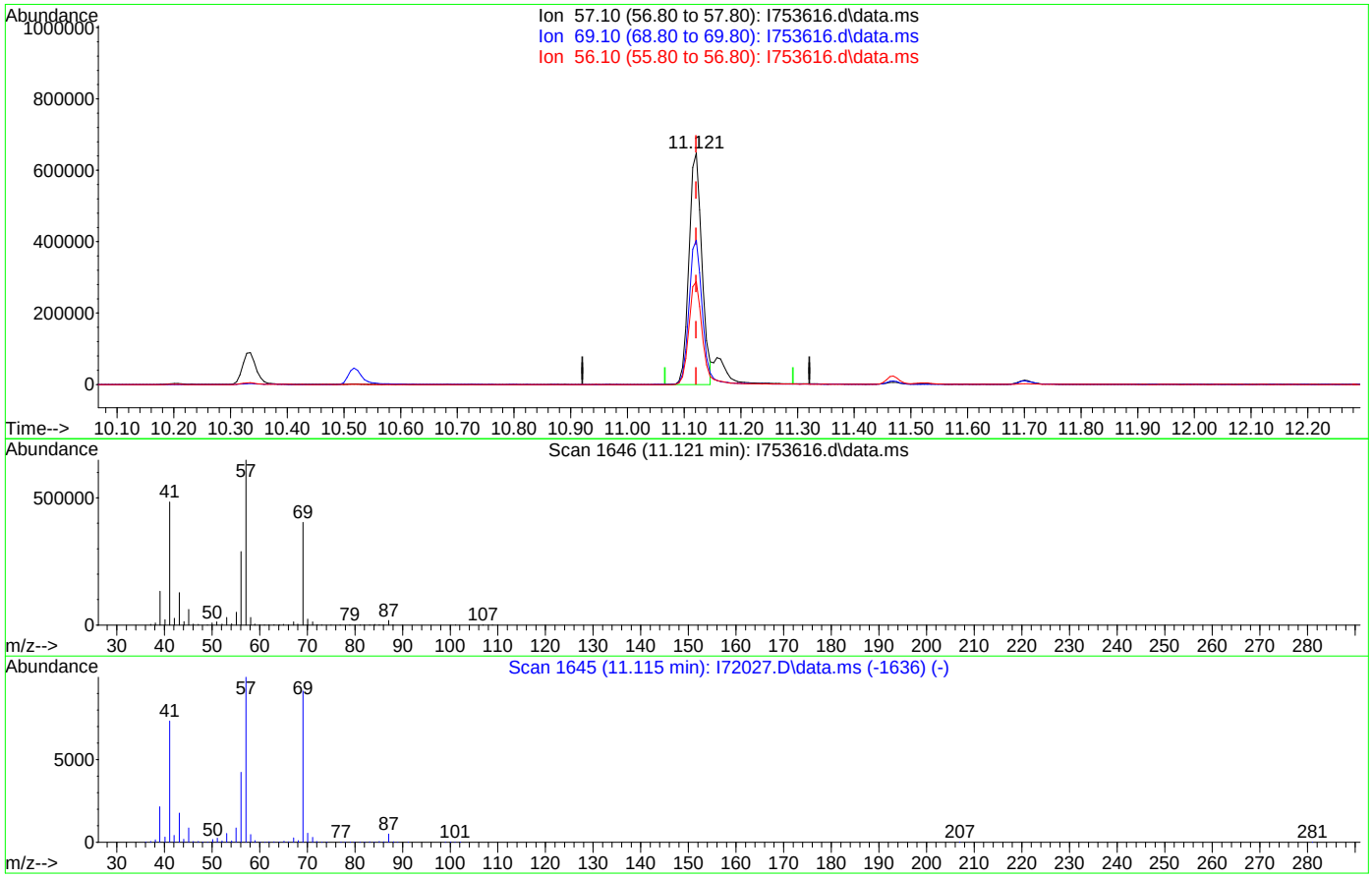
response 1166065

Ion	Exp%	Act%
57.10	100	100
69.10	62.70	62.21
56.10	44.30	44.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753616.d
Acq On : 15 Dec 2022 9:44 am
Operator : kylieg
Sample : cc2765-5 Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:04:40 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration



TIC: I753616.d\data.ms

(74) 3,3-dimethyl-1-butanol

11.121min (+0.000) 1448.01ug/L m

response 1026436

Ion	Exp%	Act%
57.10	100	100
69.10	62.70	62.26
56.10	44.30	44.46
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira
12/16/22 03:17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753638.d
Acq On : 15 Dec 2022 6:23 pm
Operator : kylieg
Sample : ECC2765-5 Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:16:53 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.335	96	373955	50.00	ug/L	0.00
62) Chlorobenzene-d5	11.512	117	295785	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.877	152	156131	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.451	113	104729	52.47	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.94%			
49) 1,2-Dichloroethane-d4	8.037	65	125626	54.54	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.08%			
63) Toluene-d8	9.945	98	379990	45.56	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 91.12%			
86) 4-Bromofluorobenzene	12.725	174	124004	48.26	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.52%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.391	85	62729	38.95	ug/L	98
3) Chloromethane	2.708	50	88897	44.26	ug/L	96
4) Vinyl Chloride	2.861	62	74765	40.03	ug/L	99
5) 1,3-Butadiene	2.897	39	70932	47.10	ug/L	99
6) Bromomethane	3.391	94	34624	48.53	ug/L	97
7) Chloroethane	3.586	64	54010	59.33	ug/L	95
8) Trichlorofluoromethane	3.812	101	94761	43.25	ug/L	95
9) Ethyl Ether	4.300	59	49620	37.60	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.556	67	71240	39.86	ug/L	97
11) 1,1-Dichloroethene	4.562	61	92142	38.86	ug/L	96
12) Ethanol	4.531	45	36593	531.52	ug/L	80
13) Freon 113	4.623	101	44663	36.21	ug/L	95
14) Carbon Disulfide	4.604	76	151592	37.33	ug/L	95
15) Iodomethane	4.757	142	76566	74.89	ug/L	98
16) Acrolein	5.013	56	93498	159.72	ug/L	95
17) Allyl chloride	5.202	41	91923	41.23	ug/L	97
18) Methylene Chloride	5.336	49	96446	40.45	ug/L	97
19) Acetone	5.391	43	186804	155.63	ug/L	95
20) Methyl acetate	5.549	43	386942	175.38	ug/L	97
21) trans-1,2-Dichloroethene	5.555	61	85423	38.29	ug/L	99
22) Hexane	5.665	56	34221	41.23	ug/L #	86
23) Methyl Tert Butyl Ether	5.683	73	157074	39.21	ug/L	90
24) Tert butyl alcohol	5.799	59	221438	314.68	ug/L	99
25) Acetonitrile	5.958	41	156176	324.80	ug/L	98
26) Di-isopropyl ether	6.147	45	201910	41.05	ug/L	95
27) Chloroprene	6.281	53	82748	41.12	ug/L	97
28) 1,1-Dichloroethane	6.299	63	108024	38.79	ug/L	98
29) Acrylonitrile	6.342	53	192904	176.65	ug/L	98
30) ETBE	6.580	59	183197	39.61	ug/L	98
31) Vinyl acetate	6.580	43	673113	200.85	ug/L	99
32) cis-1,2-Dichloroethene	6.945	96	54189	39.16	ug/L	96
33) 2,2-Dichloropropane	7.061	77	79909	35.52	ug/L	99
34) Bromochloromethane	7.177	128	26990	44.66	ug/L	97
35) Cyclohexane	7.201	56	87325	38.91	ug/L	95
36) Chloroform	7.250	83	105262	40.68	ug/L	99
37) Ethyl acetate	7.354	43	566434	193.66	ug/L	99
38) Tetrahydrofuran	7.439	42	45533	33.86	ug/L	98
40) Carbon Tetrachloride	7.433	117	79234	41.15	ug/L	98
41) 1,1,1-Trichloroethane	7.494	97	91147	39.59	ug/L	99
42) 2-Butanone	7.567	43	311522	169.50	ug/L	96
43) 1,1-Dichloropropene	7.634	75	74819	38.57	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753638.d
Acq On : 15 Dec 2022 6:23 pm
Operator : kylieg
Sample : ECC2765-5 Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:16:53 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	tert-Butyl Formate	7.726	59	301281	200.05	ug/L	98
45)	Propionitrile	7.884	54	202818	354.09	ug/L	98
46)	Methacrylonitrile	7.909	41	703476	403.76	ug/L	98
47)	Benzene	7.902	78	219411	39.15	ug/L	97
48)	TAME	8.006	73	149797	40.04	ug/L	94
50)	Isobutyl alcohol	8.079	42	116364	687.04	ug/L	99
51)	1,2-Dichloroethane	8.110	62	90703	41.97	ug/L	99
52)	Tert Amyl Alcohol	8.189	59	190667	314.36	ug/L	98
53)	Trichloroethene	8.530	95	59134	39.26	ug/L	97
54)	Methylcyclohexane	8.537	83	61406	36.20	ug/L	96
55)	Dibromomethane	8.975	93	37525	42.14	ug/L	97
56)	1,2-Dichloropropane	9.055	63	60540	39.84	ug/L	96
57)	Bromodichloromethane	9.122	83	74564	41.53	ug/L	96
58)	Methyl methacrylate	9.244	41	71129	41.72	ug/L	93
59)	1,4-Dioxane	9.311	88	21247	472.81	ug/L	90
60)	2-Chloroethyl vinyl ether	9.658	63	233981	201.90	ug/L	95
61)	cis-1,3-Dichloropropene	9.756	75	84774	40.86	ug/L	98
64)	Toluene	10.000	91	221946	34.19	ug/L	96
65)	2-Nitropropane	10.201	41	134406	191.64	ug/L	91
66)	4-Methyl-2-pentanone	10.335	43	641474	174.83	ug/L	98
67)	trans-1,3-Dichloropropene	10.402	75	75694	37.22	ug/L	94
68)	Tetrachloroethene	10.408	166	66357	37.76	ug/L	96
69)	Ethyl methacrylate	10.518	69	78124	36.72	ug/L	90
70)	1,1,2-Trichloroethane	10.561	83	44702	35.93	ug/L	98
71)	Dibromochloromethane	10.762	129	59622	38.20	ug/L	97
72)	1,3-Dichloropropane	10.841	76	87193	36.47	ug/L	97
73)	1,2-Dibromoethane	11.018	107	55782	35.46	ug/L	94
74)	3,3-dimethyl-1-butanol	11.121	57	1055693m	1398.59	ug/L	
75)	2-hexanone	11.164	43	530793	162.35	ug/L	97
76)	1-Chlorohexane	11.469	91	65087	34.08	ug/L	98
77)	Ethylbenzene	11.530	91	252458	34.91	ug/L	99
78)	Chlorobenzene	11.530	112	143338	35.26	ug/L	98
79)	1,1,1,2-Tetrachloroethane	11.579	131	55283	37.40	ug/L	98
80)	m,p-Xylene	11.670	91	381977	71.62	ug/L	99
81)	o-Xylene	12.109	91	184597	35.89	ug/L	98
82)	Styrene	12.164	104	136509	34.91	ug/L	97
83)	Bromoform	12.219	173	45075	37.15	ug/L	97
84)	Isopropylbenzene	12.414	105	224043	35.69	ug/L	98
87)	cis-1,4-Dichloro-2-butene	12.761	53	28593	31.39	ug/L	94
88)	n-Propylbenzene	12.841	91	271642	32.73	ug/L	99
89)	Bromobenzene	12.853	156	61766	34.33	ug/L	97
90)	1,1,2,2-Tetrachloroethane	12.895	83	90744	32.69	ug/L	98
91)	1,3,5-Trimethylbenzene	13.023	105	189345	33.99	ug/L	99
92)	2-Chlorotoluene	13.023	91	183289	33.42	ug/L	95
93)	trans-1,4-Dichloro-2-B...	13.078	53	24733	28.84	ug/L	91
94)	1,2,3-Trichloropropane	13.054	110	29166	33.57	ug/L	94
95)	Cyclohexanone	13.109	55	31687	107.37	ug/L	93
96)	4-Chlorotoluene	13.188	91	157362	32.62	ug/L	97
97)	tert-Butylbenzene	13.359	91	101507	32.74	ug/L	99
98)	1,2,4-Trimethylbenzene	13.426	105	183771	34.54	ug/L	98
99)	Pentachloroethane	13.408	167	34080	34.54	ug/L	94
100)	sec-Butylbenzene	13.542	105	214570	33.37	ug/L	100
101)	4-Isopropyltoluene	13.676	119	181501	34.03	ug/L	98
102)	1,3-Dichlorobenzene	13.810	146	104022	33.84	ug/L	98
103)	1,2,3-Trimethylbenzene	13.889	105	185130	33.98	ug/L	99
104)	1,4-Dichlorobenzene	13.895	146	113518	33.25	ug/L	96
105)	n-Butylbenzene	14.121	92	103617	34.07	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753638.d
Acq On : 15 Dec 2022 6:23 pm
Operator : kylieg
Sample : ECC2765-5 Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:16:53 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration

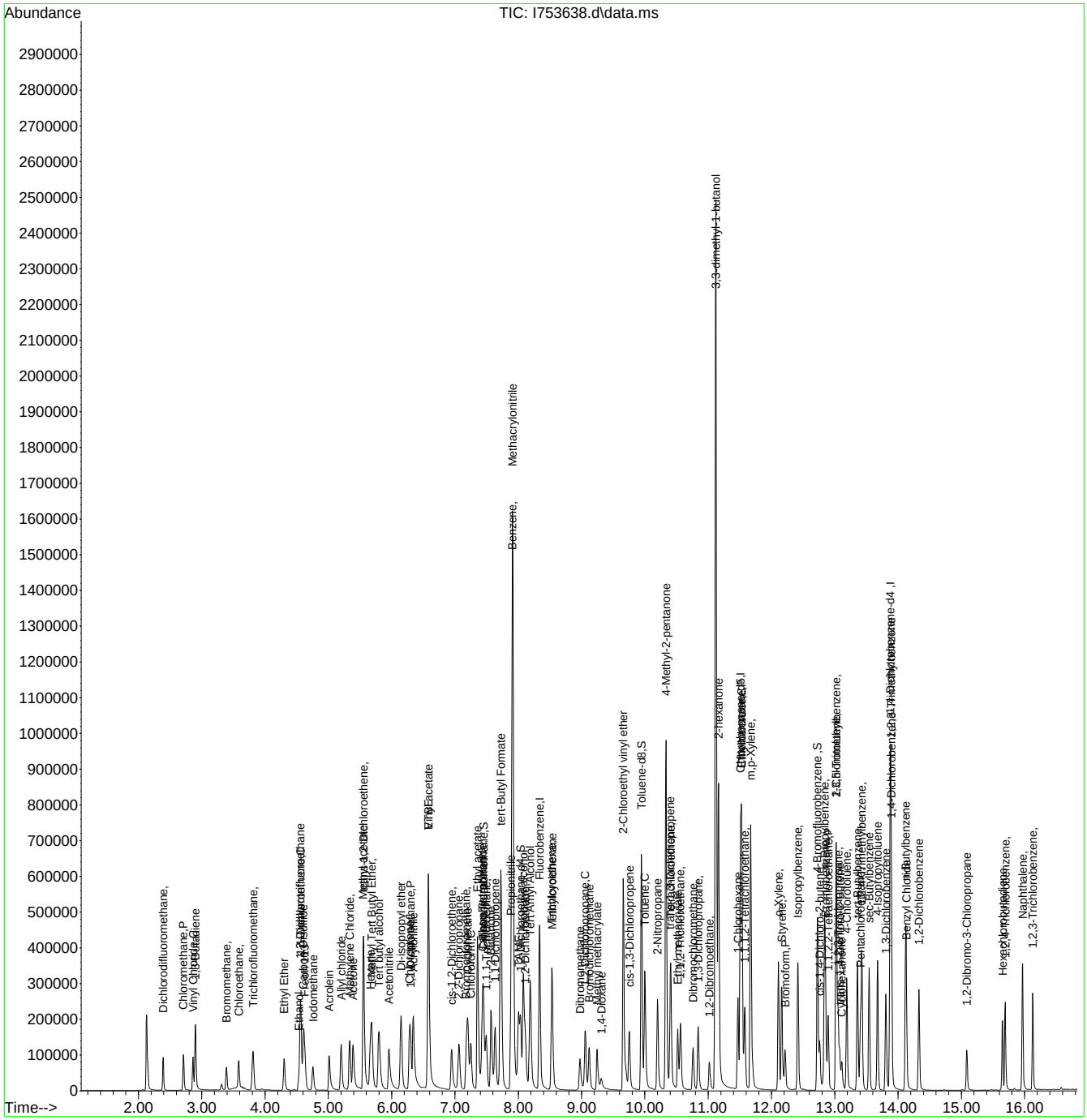
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) Benzyl Chloride	14.133	126	26036	28.36	ug/L #	56
107) 1,2-Dichlorobenzene	14.328	146	102197	34.19	ug/L	98
108) 1,2-Dibromo-3-Chloropr...	15.084	75	22894	29.20	ug/L	98
109) Hexachlorobutadiene	15.651	225	30095	34.49	ug/L	98
110) 1,2,4-Trichlorobenzene	15.694	180	65697	34.74	ug/L	97
111) Naphthalene	15.968	128	221521	33.80	ug/L	99
112) 1,2,3-Trichlorobenzene	16.127	180	65158	34.91	ug/L	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753638.d
Acq On : 15 Dec 2022 6:23 pm
Operator : kylieg
Sample : ECC2765-5 Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:16:53 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration



Manual Integration Approval Summary

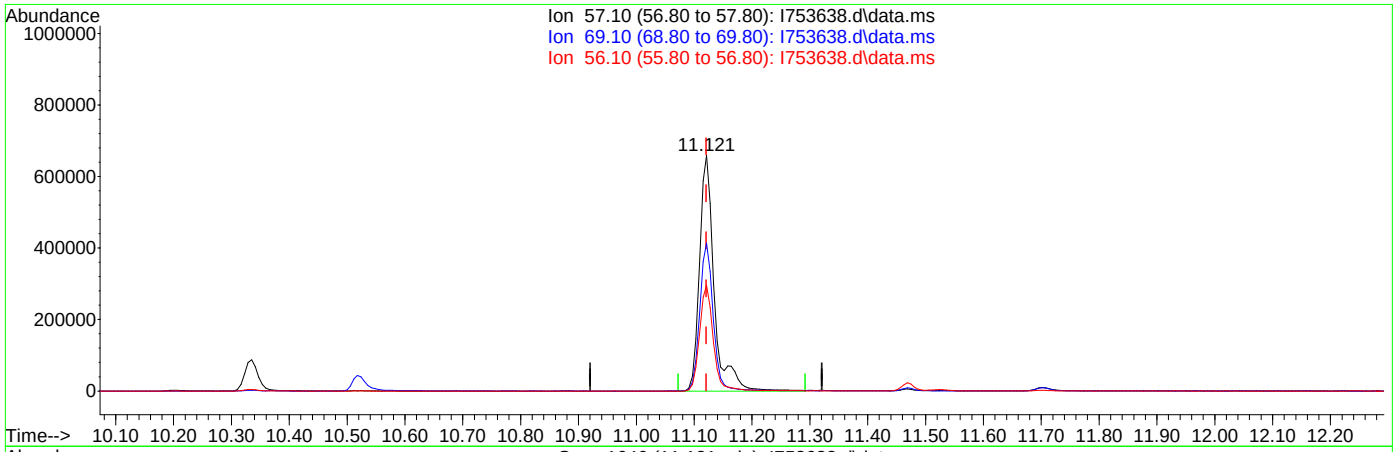
Sample Number: VI2788-ECC2765
Lab FileID: I753638.D
Injection Time: 12/15/22 18:23
Method: SW846 8260D
Analyst approved: 12/16/22 03:11 Jennifer Fereira
Supervisor approved: 12/16/22 03:17 Jennifer Fereira

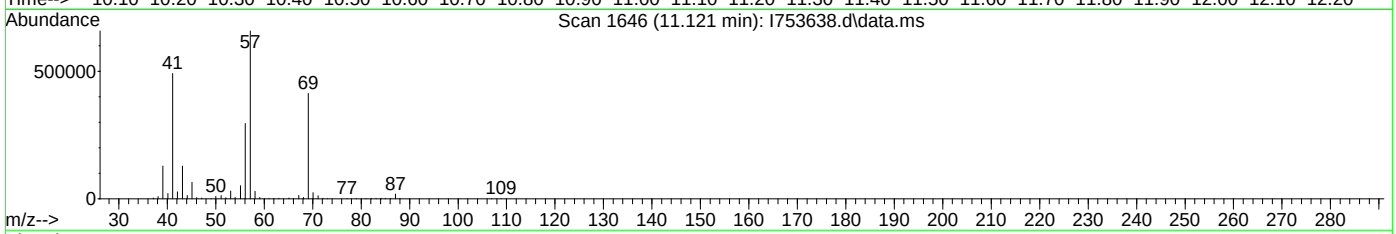
Parameter	CAS	Sig#	R.T. (min.)	Reason
3,3-Dimethyl-1-Butanol	624-95-3		11.12	Overlapping peak

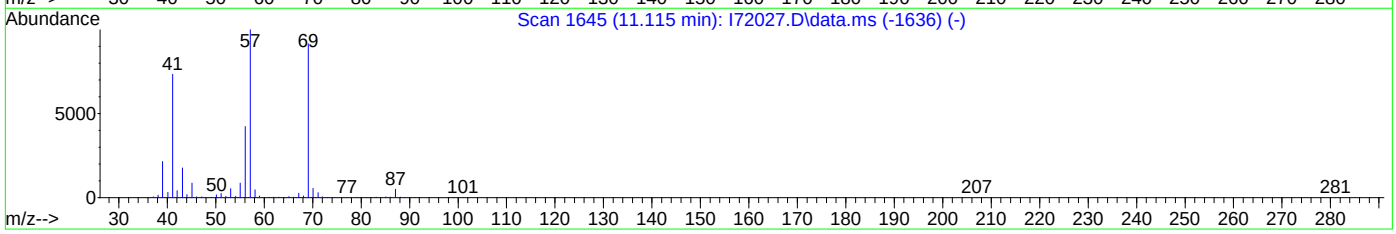
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753638.d
Acq On : 15 Dec 2022 6:23 pm
Operator : kylieg
Sample : ECC2765-5 Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:06:14 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration







TIC: I753638.d\data.ms

(74) 3,3-dimethyl-1-butanol

11.121min (+0.000) 1552.57ug/L

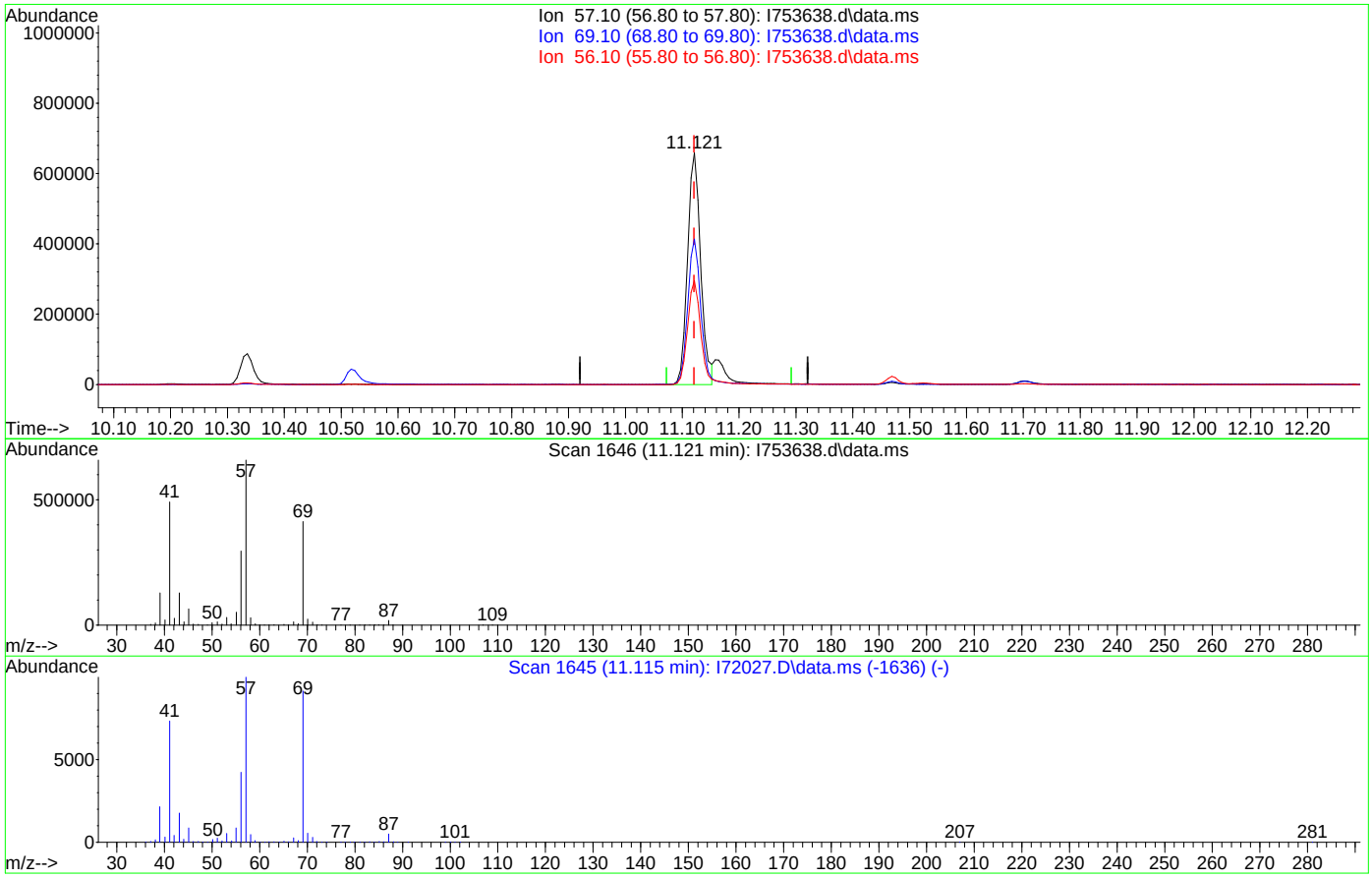
response 1171924

Ion	Exp%	Act%
57.10	100	100
69.10	62.70	62.66
56.10	44.30	44.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-16-2022\vi2788\
Data File : I753638.d
Acq On : 15 Dec 2022 6:23 pm
Operator : kylieg
Sample : ECC2765-5 Inst : MSVOA16
Misc : MS52729,VI2788,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\2022-11-30-APP9-I.m
Quant Results File: 2022-11-30-APP9-I.RES
Quant Time: Dec 16 00:06:14 2022
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Nov 30 14:40:24 2022
Response via : Initial Calibration



TIC: I753638.d\data.ms

(74) 3,3-dimethyl-1-butanol

11.121min (+0.000) 1398.59ug/L m

response 1055693

Ion	Exp%	Act%
57.10	100	100
69.10	62.70	62.70
56.10	44.30	44.84
0.00	0.00	0.00

SGS -ORLANDO

MSVOA17-1A ANALYSIS LOG

Date:	12/12/2022
Column Type:	RTX-VMS
Detector:	5975C MSD
Instrument:	MSVOA17-1A
Purge Pressure:	1.4 psi
Purge Volume:	5 mL
Analyst:	JoAnn L

Method(s):*	8260
Method File:	V1A_12-12-2022.M
Calibration Date:	12/12/2022
Acq. Method:	8260_NITROGEN
EM Voltage:	1541
BFB Response:	421908
Run ID:	V1A1696

BFB:	VS2678
ICAL/CC:	VS2655, VS2687, VS2692
VS2693, VS2694, VS2688	
ICV/QC:	VS2641, VS2691, VS2695
VS2696, VS2690, VS2697, VS2684	
ISTD/Surr.:	VS2678

(0-3) pH Paper Lot#:	220416
(1-12) pH Paper Lot#:	200814
KI Paper Lot#:	41818
AFA Lot#:	N/A
Data processed by:	JL
Sample ID Ver. by:	JL
Date Verified:	12/12/2022

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments / Manual Integrations (Peak# & Justification)
1A42105	BFB	-	-	Water	29	-	-	-	-	Passed autofind✓
1A42106	IC1696-1	-	-	Water	30	-	-	-	-	1uL (-) 100mL✓
1A42107	IC1696-2	-	-	Water	31	-	-	-	-	5uL (-) 100mL✓
1A42108	IC1696-3	-	-	Water	32	-	-	-	-	10uL (-) 100mL✓
1A42109	IC1696-4	-	-	Water	33	-	-	-	-	25uL (-) 100mL✓
1A42110	ICC1696-5	-	-	Water	34	-	-	-	-	40uL (-) 100mL✓
1A42111	IC1696-6	-	-	Water	35	-	-	-	-	70uL (-) 100mL✓
1A42112	IC1696-7	-	-	Water	36	-	-	-	-	100uL (-) 100mL✓
1A42113	BLANK	-	-	Water	37	-	-	-	-	
1A42114	ICV1696-5	-	-	Water	38	-	-	-	-	25uL (-) 100mL✓
1A42115	ICV1696-4	-	-	Water	39	-	-	-	-	12.5uL (-) 40mL; Not used- not needed

12/13/22

* For NELAC purposes. Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.

SGS -ORLANDO

MSVOA17-1A ANALYSIS LOG

Date:	12/13/2022
Column Type:	RTX-VMS
Detector:	5975C MSD
Instrument:	MSVOA17-1A
Purge Pressure:	1.4 psi
Purge Volume:	5 mL
Analyst:	JoAnn L

Method(s):*	8260
Method File:	V1A_12-12-2022.M
Calibration Date:	12/12/2022
Acq. Method:	8260_NITROGEN
EM Voltage:	1541
BFB Response:	415280
Run ID:	**V1A1697**

BFB:	VS2678
ICAL/CC:	VS2655, VS2687, VS2692
VS2693, VS2694, VS2688	
ICV/QC:	VS2641, VS2691, VS2695
VS2696, VS2690, VS2697, VS2684	
ISTD/Surr.:	VS2678

(0-3) pH Paper Lot#:	220416
(1-12) pH Paper Lot#:	200814
KI Paper Lot#:	41818
AFA Lot#:	N/A
Data processed by:	JL / Celine C.
Sample ID Ver. by:	JL
Date Verified:	12/13/2022

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments / Manual Integrations (Peak# & Justification)
1A42119	BFB	-	-	Water	1	-	-	-	-	Passed autofind✓
1A42120	CC1696-5	-	-	Water	2	-	-	-	-	40uL (-) 100mL✓
1A42121	BS	-	-	Water	3	-	-	-	-	12.5uL (-) 40mL✓
1A42122	CC1696-1	-	-	Water	4	-	-	-	-	1uL (-) 100mL✓
1A42123	MB	-	-	Water	5	-	-	-	-	ND✓
1A42124	FA98725-1A	-	-	Water	6	MS52999	-	-	-	✓
1A42125	FA98725-2A	-	-	Water	7	MS52999	-	-	-	✓
1A42126	FA98725-3A	-	-	Water	8	MS52999	-	-	-	✓
1A42127	FA98725-4A	-	-	Water	9	MS52999	-	-	-	✓
1A42128	FA98725-5A	-	-	Water	10	MS52999	-	-	-	✓
1A42129	FA98725-6A	-	-	Water	11	MS52999	-	-	-	✓
1A42130	FA98725-7A	-	-	Water	12	MS52999	-	-	-	✓
1A42131	BLANK	-	-	Water	13	-	-	-	-	-
1A42132	FC1091-6		1	Water	14	MS52981	6	N	-	ND✓
1A42133	FC1039-6		1	Water	15	MS52981	6	N	-	ND✓
1A42134	FC1011-3		1	Water	16	MS52981	1	N	-	ND✓
1A42135	FC1011-1		3	Water	17	MS52981	1	N	-	✓
1A42136	FC1208-11		2	Water	18	MS53004	1	N	-	#53(MP) ✓
1A42137	FC1200-23		2	Water	19	MS53004	1	N	-	Bubble>6mm, all vials received ✓
1A42138	**FC1200-24**		2	Water	20	MS53004	1	N	**2x**	AFA, Bubble>6mm, all vials received; cis-1,2-DCE high
1A42139	**FC1200-26**		1	Water	21	MS53004	1	N	**1x**	AFA; possible cis-1,2-DCE C/O
1A42140	FC1200-27		2	Water	22	MS53004	1	N	-	AFA, ✓
1A42141	FC1200-28		2	Water	23	MS53004	1	N	-	AFA, ✓
1A42142	FC1200-29		2	Water	24	MS53004	1	N	-	AFA, ✓
1A42143	FC1200-25 2X	2	2	Water	25	MS53004	1	N	-	AFA ✓; 25mL(-)50mL
1A42144	FC1200-25MS 1	10	2	Water	26	MS53004	1	N	-	10mL(-)100mL; 12.5uL (-) 40mL✓
1A42145	FC1200-25MSD	10	2	Water	27	MS53004	1	N	-	10mL(-)100mL; 12.5uL (-) 40mL✓
1A42146	ECC1696-5	-	-	Water	28	-	-	-	-	40uL (-) 100mL✓
1A42147	BLANK	-	-	Water	29	-	-	-	-	-
1A42148	MB(AFA)	-	-	Water	30	-	-	-	-	AFA, ND✓
										12/14/22

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.

SGS -ORLANDO

MSVOA17-1A ANALYSIS LOG

Date:	12/14/2022
Column Type:	RTX-VMS
Detector:	5975C MSD
Instrument:	MSVOA17-1A
Purge Pressure:	1.4 psi
Purge Volume:	5 mL
Analyst:	JoAnn L

Method(s):*	8260
Method File:	V1A_12-12-2022.M
Calibration Date:	12/12/2022
Acq. Method:	8260_NITROGEN
EM Voltage:	1541
BFB Response:	425596
Run ID:	V1A1698-99

BFB:	VS2678
ICAL/CC:	VS2655, VS2687, VS2692
	VS2693, VS2694, VS268
ICV/QC:	VS2641, VS2691, VS2695
	VS2696, VS2690, VS2697, VS2684
ISTD/Surr.:	VS2678

(0-3) pH Paper Lot#	220416
(1-12) pH Paper Lo	200814
KI Paper Lot#:	41818
AFA Lot#:	N/A
Data processed by:	JL / Celine C.
Sample ID Ver. by:	JL
Date Verified:	12/14/2022

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments / Manual Integrations (Peak# & Justification)
1A42149	BFB	-	-	Water	1	-	-	-	-	Passed autofind✓
1A42150	CC1696-5	-	-	Water	2	-	-	-	-	40uL (-) 100mL✓
1A42151	BS	-	-	Water	3	-	-	-	-	12.5uL (-) 40mL✓
1A42152	CC1696-1	-	-	Water	4	-	-	-	-	1uL (-) 100mL✓
1A42153	MB(AFA)	-	-	Water	5	-	-	-	-	AFA, ND✓
1A42154	FC1102-13		3	Water	6	MS52976	1	N	-	✓
1A42155	FC1108-1		2	Water	7	MS52976	1	N	-	✓
1A42156	FC1200-26		2	Water	8	MS53004	1	N	-	Cis12 c/o not detected-not used. Bubble>6mm, all vials received; AFA
1A42157	FC1206-3		2	Water	9	MS52989	1	N	-	✓
1A42158	FC1206-7		2	Water	10	MS52989	1	N	-	✓
1A42159	FC1102-12 5X	5	3	Water	11	MS52976	1	N	-	10mL(-)50mL E-combine✓
1A42160	FC1200-24 2X	2	1	Water	12	MS53004	1	N	-	25mL(-)50mL; Bubble>6mm, all vials received; AFA E-combine✓
1A42161	FC1168-1 2X	2	3	Water	13	MS52998	1	N	-	25mL(-)50mL; No client ID; AFA E-combine✓
1A42162	FC832-1	50,000	3	Water	14	MS52940	6	N	-	50uL(-)50mL(MEOH), STRONG GAS SMELL ✓
1A42163	FC1102-12MS 5	5	3	Water	15	MS52976	1	N	-	20mL(-)100mL; 12.5uL (-) 40mL✓
1A42164	FC1102-12MSD	5	3	Water	16	MS52976	1	N	-	20mL(-)100mL; 12.5uL (-) 40mL✓
1A42165	ECC1696-5	-	-	Water	17	-	-	-	-	40uL (-) 100mL✓

12/15/22

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.

SGS -ORLANDO

MSVOA13-1P ANALYSIS LOG

Date:	11/04/2022
Column Type:	RTXVMS
Detector:	5973MSD
Instrument:	MSVOA13-1P
Purge Pressure:	1.4 PSI
Purge Volume:	5 mL
Analyst:	Courtney F

Method(s):*	8260
Method File:	V1P_2022-11-04.M
Calibration Date:	11/04/2022
Acq. Method:	RTXFAST
EM Voltage:	1482V
BFB Response:	1915579
Run ID:	**V1P3621**

BFB:	VS2578
ICAL/CC:	VS2552, VS2553, VS2589
VS2590, VS2591, VS2595	
ICV/QC:	VS2571, VS2572, VS2593
VS2592, VS2594, VS2596, VS2581	
ISTD/Surr.:	VS2578

(0-3) pH Paper Lot#:	405
(1-12) pH Paper Lot#:	160
KI Paper Lot#:	14-860
AFA Lot#:	VS2455F
Data processed by:	Courtney F / Celine C.
Sample ID Ver. by:	Courtney F
Date Verified:	11/04/2022

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments / Manual Integrations (Peak# & Justification)
1P94948	BLANK	-	-	Water	1	-	-	-	-	Passed autofind ✓
1P94950	BFB/IC3621-1	-	-	Water	2	-	-	-	-	Passed autofind; 1uL(-)100mL ✓
1P94952	IC3621-2	-	-	Water	3	-	-	-	-	5uL(-)100mL ✓
1P94954	IC3621-3	-	-	Water	4	-	-	-	-	10uL(-)100mL ✓
1P94956	IC3621-4	-	-	Water	5	-	-	-	-	25uL(-)100mL ✓
1P94958	ICC3621-5	-	-	Water	6	-	-	-	-	40uL(-)100mL ✓
1P94960	IC3621-6	-	-	Water	7	-	-	-	-	70uL(-)100mL ✓
1P94962	IC3621-7	-	-	Water	8	-	-	-	-	100uL(-)100mL ✓
1P94964	BLANK	-	-	Water	9	-	-	-	-	✓
1P94966	ICV3621-5	-	-	Water	10	-	-	-	-	50uL (-) 100mL; bad prep, not used, rerun
1P94968A	ICV3621-5/CC3621-5	-	-	Water	11	-	-	-	-	50uL (-) 100mL ✓
1P94970A	ICV3621-4/BS	-	-	Water	12	-	-	-	-	12.5uL (-) 40mL ✓
1P94972	CC3621-1	-	-	Water	13	-	-	-	-	1uL(-)100mL ✓
1P94974	MB	-	-	Water	14	-	-	-	-	MC hit (J-value) ✓
1P94976	FA99809-2	1x	2	Water	15	MS52683	1	N	-	DCFM only ✓
1P94978	FA99809-3	1x	3	Water	16	MS52683	1	N	-	DCFM only ✓
1P94980	FA99809-4	1x	2	Water	17	MS52683	1	N	-	DCFM only ✓
1P94982	FA99809-5	1x	2	Water	18	MS52683	1	N	-	DCFM only ✓
1P94984	FA99809-6	1x	2	Water	19	MS52683	1	N	-	DCFM only ✓
1P94986	FA99809-7	1x	2	Water	20	MS52683	1	N	-	DCFM only ✓
1P94988	FA99809-8	1x	2	Water	21	MS52683	1	N	-	DCFM only ✓
1P94990	FA99809-9	1x	2	Water	22	MS52683	1	N	-	DCFM only ✓
1P94992	**FA99930-2**	1x	7	Water	23	MS52697	1	N	**1x**	Bad purge, no data collected
1P94994	ECC3621-5	-	-	Water	24	-	-	-	-	40uL(-)100mL ✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.

SGS -ORLANDO

MSVOA13-1P ANALYSIS LOG

Date:	12/12/2022
Column Type:	RTXVMS
Detector:	5973MSD
Instrument:	MSVOA13-1P
Purge Pressure:	1.4 PSI
Purge Volume:	5 mL
Analyst:	Courtney F

Method(s):*	8260
Method File:	V1P_2022-11-04.M
Calibration Date:	11/04/2022
Acq. Method:	RTXFAST
EM Voltage:	1482V
BFB Response:	1537008
Run ID:	**V1P3644**

BFB:	VS2662
ICAL/CC:	VS2603, VS2620, VS2628
VS2630, VS2629, VS2688	
ICV/QC:	VS2641, VS2642, VS2631
VS2633, VS2632, VS2689, VS2684	
ISTD/Surr.:	VS2662

(0-3) pH Paper Lot#:	405
(1-12) pH Paper Lot#:	160
KI Paper Lot#:	14-860
AFA Lot#:	VS2664B
Data processed by:	JenniferF
Sample ID Ver. by:	Courtney F
Date Verified:	12/12/2022

x

x **Data File**	**Sample ID**	**Dilution Factor**	**Vial #**	**Matrix**	**A.S. Pos.**	**Work Group**	**pH**	**CI?** (Y/N)	**RR**	**Comments / Manual Integrations (Peak# & Justification)**
1P96222	BLANK	-	-	Water	1	-	-	-	-	Passed autofind ✓
1P96224	BFB/CC3621-5	-	-	Water	2	-	-	-	-	Passed autofind; 40mL(-)100mL ✓
1P96226	BS	-	-	Water	3	-	-	-	-	12.5mL(-)40mL ✓
1P96228	CC3621-1	-	-	Water	4	-	-	-	-	1mL(-)100mL; all CCV low peaks present ✓
1P96230	MB	-	-	Water	5	-	-	-	-	AFA, ND ✓
1P96232	FC1074-5	1x	2	Water	6	MS52987	1	N	-	bubble > 6mm; ND✓
1P96234	FC1074-3	1x	2	Water	7	MS52987	1	N	-	ND✓
1P96236	FC1074-4	1x	2	Water	8	MS52987	1	N	-	ND✓
1P96238	FC1074-1	1x	2	Water	9	MS52987	1	N	-	ND✓
1P96240	FC1074-2	1x	2	Water	10	MS52987	1	N	-	ND✓
1P96242	FC1200-1	1x	2	Water	11	MS52987	1	N	-	AFA✓
1P96244	FC1200-2	1x	2	Water	12	MS52987	1	N	-	AFA, bubble > 6mm✓
1P96246	FC1200-3	1x	2	Water	13	MS52987	1	N	-	AFA, bubble > 6mm✓
1P96248	FC1200-4	1x	2	Water	14	MS52987	1	N	-	AFA, bubble > 6mm ✓
1P96250	**FC1200-5**	1x	2	Water	15	MS52987	1	N	**10x**	**AFA; cis-1,2-DCE and TCE ↑**
1P96252	**FC1200-6**	1x	2	Water	16	MS52987	1	N	**1x**	**AFA; cis-1,2-DCE and TCE carryover**
1P96254	**FC1200-7**	1x	2	Water	17	MS52987	1	N	**1x**	**AFA; cis-1,2-DCE and TCE carryover**
1P96256	**FC1200-8**	1x	2	Water	18	MS52987	1	N	**1x**	**AFA; cis-1,2-DCE and TCE carryover**
1P96258	**FC1200-9**	1x	2	Water	19	MS52987	1	N	**1x**	**AFA; cis-1,2-DCE and TCE carryover**
1P96260	**FC1200-10**	1x	2	Water	20	MS52987	1	N	**1x**	**AFA; bubble > 6mm; cis-1,2-DCE and TCE carryover**
1P96262	**FC1200-11**	1x	2	Water	21	MS52987	1	N	**1x**	**AFA; bubble > 6mm; cis-1,2-DCE and TCE carryover**
1P96264	FC1074-1MS	5x	2	Water	22	MS52987	1	N	-	20mL(-)100mL; 12.5mL(-)40mL ✓
1P96266	FC1074-1MSD	5x	2	Water	23	MS52987	1	N	-	20mL(-)100mL; 12.5mL(-)40mL ✓
1P96268	ECC3621-5	-	-	Water	24	-	-	-	-	40mL(-)100mL ✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.

SGS -ORLANDO

MSVOA17-2A ANALYSIS LOG

Date:	12/16/2022
Column Type:	RTX-VMS
Detector:	5975C MSD
Instrument:	MSVOA17-2A
Purge Pressure:	1.4 psi
Purge Volume:	5 mL
Analyst:	JoAnn L

Method(s):*	8260
Method File:	V2A_12-16-2022.M
Calibration Date:	12/16/2022
Acq. Method:	8260_NITROGEN
EM Voltage:	1541
BFB Response:	460112
Run ID:	**V2A1677**

BFB:	VS2678
ICAL/CC:	VS2722, VS2687, VS2724
VS2730, VS2727, VS2710	
ICV/QC:	VS2723, VS2691, VS2725
VS2731, VS2728, VS2711, VS2726	
ISTD/Surr.:	VS2678

(0-3) pH Paper Lot#:	220416
(1-12) pH Paper Lot#:	200814
KI Paper Lot#:	41818
AFA Lot#:	N/A
Data processed by:	JoAnn L/
Sample ID Ver. by:	JL
Date Verified:	12/16/2022

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments / Manual Integrations (Peak# & Justification)
2A42171	BFB	-	-	Water	51	-	-	-	-	Passed autofind✓
2A42173	IC1677-1	-	-	Water	52	-	-	-	-	1uL (-) 100mL✓
2A42175	IC1677-2	-	-	Water	53	-	-	-	-	5uL (-) 100mL✓
2A42177	IC1677-3	-	-	Water	54	-	-	-	-	10uL (-) 100mL✓
2A42179	IC1677-4	-	-	Water	55	-	-	-	-	25uL (-) 100mL✓
2A42181	ICC1677-5	-	-	Water	56	-	-	-	-	40uL (-) 100mL✓
2A42183	IC1677-6	-	-	Water	57	-	-	-	-	70uL (-) 100mL✓
2A42185	IC1677-7	-	-	Water	58	-	-	-	-	100uL (-) 100mL✓
2A42187	BLANK	-	-	Water	59	-	-	-	-	
2A42189	ICV1677-5	-	-	Water	60	-	-	-	-	25uL (-) 100mL✓
2A42191	BS	-	-	Water	61	-	-	-	-	12.5uL (-) 40mL✓
2A42192	BLANK	-	-	Water	62	-	-	-	-	
2A42193	MB	-	-	Water	63	-	-	-	-	ND✓
2A42194	FA99825-1B	-	-	Water	64	MS53033			-	✓
2A42195	FA99825-2B	-	-	Water	65	MS53033			-	✓
2A42196	FA99825-3B	-	-	Water	66	MS53033			-	✓
2A42197	FA99825-4B	-	-	Water	67	MS53033			-	✓
2A42198	FA99825-5B	-	-	Water	68	MS53033			-	✓
2A42199	FA99825-6B	-	-	Water	69	MS53033			-	✓
2A42200	FA99825-7B	-	-	Water	70	MS53033			-	✓
2A42201	ECC1677-5			Water	71	-	-	-	-	40uL (-) 100mL✓

12/16/22

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.

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MSVOA17-2A ANALYSIS LOG

Date:	12/27/2022
Column Type:	RTX-VMS
Detector:	5975C MSD
Instrument:	MSVOA17-2A
Purge Pressure:	1.4 psi
Purge Volume:	5 mL
Analyst:	JoAnn L

Method(s):*	8260
Method File:	V2A_12-16-2022.M
Calibration Date:	12/16/2022
Acq. Method:	8260_NITROGEN
EM Voltage:	1541
BFB Response:	373196
Run ID:	V2A1682

BFB:	VS2678
ICAL/CC:	VS2722, VS2687, VS2724
	VS2730, VS2727, VS2738
ICV/QC:	VS2723, VS2691, VS2725
	VS2731, VS2728, VS2739, VS2726
ISTD/Surr.:	VS2678

(0-3) pH Paper Lot#:	220416
(1-12) pH Paper Lot#:	200814
KI Paper Lot#:	41818
AFA Lot#:	N/A
Data processed by:	Kylie G. / Celine C.
Sample ID Ver. by:	JL
Date Verified:	12/27/2022

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments / Manual Integrations (Peak# & Justification)
2A42430	BFB	-	-	Water	51	-	-	-	-	Passed autofind✓
2A42432	CC1677-5	-	-	Water	52	-	-	-	-	40uL (-) 100mL✓
2A42434	BS	-	-	Water	53	-	-	-	-	12.5uL (-) 40mL✓
2A42436	CC1677-1	-	-	Water	54	-	-	-	-	1uL (-) 100mL✓
2A42437	MB	-	-	Water	55	-	-	-	-	ND ✓
2A42438	FC1200-21		3	Water	56	MS52988	1	N		Bubble>6mm ✓
2A42439	FC1200-25		1	Water	57	MS53004	1	N		#53(MP) ✓
2A42440	FC1580-2		2	Water	58	MS53096	1	N		✓
2A42441	FC1543-4		2	Water	59	MS53085	1	N		ND ✓
2A42442	FC1541-6		2	Water	60	MS53088	1	N		✓
2A42443	FC1541-7		2	Water	61	MS53088	1	N		✓
2A42444	FC1541-8		2	Water	62	MS53088	1	N		✓
2A42445	FC1541-4 50X	50	2	Water	63	MS53088	1	N		1mL(-)50mL #101(OP); E-Combine✓
2A42446	FC1563-3 5X	5	2	Water	64	MS53090	6	N		10mL(-)50mL; E-combine ✓
2A42447	FC1329-3 5000X	5,000	1	Water	65	MS53025	1	N		10uL(-)50mL #53(MP) ✓
2A42448	FC1563-3MS 5X	5	2	Water	66	MS53090	6	N	-	20mL(-)100mL; 12.5uL (-) 40mL✓
2A42449	FC1563-3MSD 5X	5	2	Water	67	MS53090	6	N	-	20mL(-)100mL; 12.5uL (-) 40mL✓
2A42450	ECC1677-5	-	-	Water	68	-	-	-	-	40uL (-) 100mL✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.

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MSVOA13-2P ANALYSIS LOG

Date:	11/04/2022
Column Type:	RTXVMS
Detector:	5973MSD
Instrument:	MSVOA13-1P
Purge Pressure:	1.4 PSI
Purge Volume:	5 mL
Analyst:	Courtney F

Method(s):*	8260
Method File:	V2P_2022-11-04.M
Calibration Date:	11/04/2022
Acq. Method:	RTXFAST
EM Voltage:	1482V
BFB Response:	1883231
Run ID:	**V2P3622**

BFB:	VS2578
ICAL/CC:	VS2552, VS2553, VS2589
VS2590, VS2591, VS2595	
ICV/QC:	VS2571, VS2572, VS2593
VS2592, VS2594, VS2596, VS2581	
ISTD/Surr.:	VS2578

(0-3) pH Paper Lot#:	405
(1-12) pH Paper Lot#:	160
KI Paper Lot#:	14-860
AFA Lot#:	VS2455F
Data processed by:	Courtney F / Celine C.
Sample ID Ver. by:	Courtney F
Date Verified:	11/04/2022

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments / Manual Integrations (Peak# & Justification)
2P94949	BLANK	-	-	Water	51	-	-	-	-	Passed autofind ✓
2P94951	BFB/IC3622-1	-	-	Water	52	-	-	-	-	Passed autofind; 1uL(-)100mL ✓
2P94953	IC3622-2	-	-	Water	53	-	-	-	-	5uL(-)100mL ✓
2P94955	IC3622-3	-	-	Water	54	-	-	-	-	10uL(-)100mL ✓
2P94957	IC3622-4	-	-	Water	55	-	-	-	-	25uL(-)100mL ✓
2P94959	ICC3622-5	-	-	Water	56	-	-	-	-	40uL(-)100mL ✓
2P94961	IC3622-6	-	-	Water	57	-	-	-	-	70uL(-)100mL ✓
2P94963	IC3622-7	-	-	Water	58	-	-	-	-	100uL(-)100mL ✓
2P94965	BLANK	-	-	Water	59	-	-	-	-	✓
2P94967	ICV3622-5	-	-	Water	60	-	-	-	-	50uL (-) 100mL; bad prep, not used, rerun
2P94969A	ICV3622-5/CC3622-5	-	-	Water	61	-	-	-	-	50uL (-) 100mL ✓
2P94971A	ICV3622-4/BS	-	-	Water	62	-	-	-	-	12.5uL (-) 40mL ✓
2P94973	CC3622-1	-	-	Water	63	-	-	-	-	1uL(-)100mL ✓
2P94975	MB	-	-	Water	64	-	-	-	-	AFA, ND ✓
2P94977	FA99902-4	1x	3	Water	65	MS52681	1	N	-	PCE only ✓
2P94979	FA99981-3	1x	2	Water	66	MS52694	1	N	-	EB, m,p-xylene only ✓
2P94981	FA99907-5	5x	7	Water	67	MS52694	1	N	-	10mL(-)50mL, E-combined ✓
2P94983	FC111-1	5x	2	Water	68	MS52710	1	N	-	AFA, 10mL(-)50mL, E-combined ✓
2P94985	FA99980-1	5x	5	Water	69	MS52713	1	N	-	10mL(-)50mL, E-combined ✓
2P94987	**FA99882-10**	2x	9	Water	70	MS52682	1	N	**10x**	25mL(-)50mL; results do not match 1st run
2P94989	FA99882-11	10x	6	Water	71	MS52682	1	N	-	5mL(-)50mL; E-combined ✓
2P94991	FA99882-17	20x	6	Water	72	MS52682	1	N	-	2.5mL(-)50mL; E-combined ✓
2P94993	**FA99882-18**	2x	7	Water	73	MS52682	1	N	**5x**	25mL(-)50mL; IS 3 ↓; results do not match 1st run
2P94995	ECC3622-5	-	-	Water	74	-	-	-	-	40uL(-)100mL ✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.

SGS -ORLANDO

MSVOA13-2P ANALYSIS LOG

Date:	12/12/2022
Column Type:	RTXVMS
Detector:	5973MSD
Instrument:	MSVOA13-1P
Purge Pressure:	1.4 PSI
Purge Volume:	5 mL
Analyst:	Courtney F

Method(s):*	8260
Method File:	V2P_2022-11-04.M
Calibration Date:	11/04/2022
Acq. Method:	RTXFAST
EM Voltage:	1482V
BFB Response:	1752499
Run ID:	**V2P3657**

BFB:	VS2662
ICAL/CC:	VS2603, VS2620, VS2628
VS2630, VS2629, VS2688	
ICV/QC:	VS2641, VS2642, VS2631
VS2633, VS632, VS2689, VS2684	
ISTD/Surr.:	VS2662

(0-3) pH Paper Lot#:	405
(1-12) pH Paper Lot#:	160
KI Paper Lot#:	14-860
AFA Lot#:	VS2664B
Data processed by:	JenniferF
Sample ID Ver. by:	Courtney F
Date Verified:	12/12/2022

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments / Manual Integrations (Peak# & Justification)
2P96223	BLANK	-	-	Water	51	-	-	-	-	Passed autofind ✓
2P96225	BFB/CC3622-5	-	-	Water	52	-	-	-	-	Passed autofind; 40mL(-)100mL ✓
2P96227	BS	-	-	Water	53	-	-	-	-	12.5mL(-)40mL ✓
2P96229	CC3622-1	-	-	Water	54	-	-	-	-	1mL(-)100mL; all CCV low peaks present ✓
2P96231	MB	-	-	Water	55	-	-	-	-	AFA, ND ✓
2P96233	FC1200-12	1x	2	Water	56	MS52988	1	N	-	ND✓
2P96235	FC990-25	5x	2	Water	57	MS52959	1	N	-	10mL(-)50mL, vial has sig. HS; E-combined ✓
2P96237	FC990-26	5x	2	Water	58	MS52959	1	N	-	10mL(-)50mL, vial has sig. HS; E-combined ✓
2P96239	FC990-28	5x	2	Water	59	MS529595	1	N	-	10mL(-)50mL, vial has sig. HS; E-combined ✓
2P96241	FC1200-13	1x	2	Water	60	MS52988	1	N	-	AFA✓
2P96243	FC1200-14	1x	2	Water	61	MS52988	1	N	-	AFA, bubble > 6mm✓
2P96245	FC1200-15	1x	2	Water	62	MS52988	1	N	-	AFA, bubble > 6mm✓
2P96247	FC1200-16	1x	2	Water	63	MS52988	1	N	-	AFA, bubble > 6mm✓
2P96249	FC1200-17	1x	2	Water	64	MS52988	1	N	-	AFA, bubble > 6mm✓
2P96251	FC1200-18	1x	2	Water	65	MS52988	1	N	-	AFA✓
2P96253	FC1200-19	1x	2	Water	66	MS52988	1	N	-	AFA✓
2P96255	FC1200-20	1x	2	Water	67	MS52988	1	N	-	AFA✓
2P96257	FC1200-21	2x	2	Water	68	MS52988	1	N	-	25mL(-)50mL, bubble > 6mm ✓
2P96259	FC1200-22	1x	2	Water	69	MS52988	1	N	-	AFA, bubble > 6mm✓
2P96261	FC995-5MS	1x	5	Water	70	MS52966	1	N	-	For V2P3656; 12.5mL(-)40mL ✓
2P96263	FC995-5MSD	1x	6	Water	71	MS52966	1	N	-	For V2P3656; 12.5mL(-)40mL ✓
2P96265	FC1200-21MS	10x	2	Water	72	MS52988	1	N	-	10mL(-)100mL; 12.5mL(-)40mL ✓
2P96267	FC1200-21MSD	10x	2	Water	73	MS52988	1	N	-	10mL(-)100mL; 12.5mL(-)40mL ✓
2P96269	ECC3622-5	-	-	Water	74	-	-	-	-	40mL(-)100mL ✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.

SGS -ORLANDO

MSVOA13-2P ANALYSIS LOG

Date:	12/13/2022
Column Type:	RTXVMS
Detector:	5973MSD
Instrument:	MSVOA13-1P
Purge Pressure:	1.4 PSI
Purge Volume:	5 mL
Analyst:	Courtney F

Method(s):*	8260
Method File:	V2P_2022-11-04.M
Calibration Date:	11/04/2022
Acq. Method:	RTXFAST
EM Voltage:	1482V
BFB Response:	1607170
Run ID:	**V2P3658-59**

BFB:	VS2662
ICAL/CC:	VS2603, VS2620, VS2628
VS2630, VS2629, VS2688	
ICV/QC:	VS2641, VS2642, VS2631
VS2633, VS632, VS2689, VS2684	
ISTD/Surr.:	VS2662

(0-3) pH Paper Lot#:	405
(1-12) pH Paper Lot#:	160
KI Paper Lot#:	14-860
AFA Lot#:	VS2664B
Data processed by:	Celine C.
Sample ID Ver. by:	Courtney F
Date Verified:	12/13/2022

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments / Manual Integrations (Peak# & Justification)
2P96271	BFB	-	-	Water	51	-	-	-	-	Passed autofind ✓
2P96273	CC3622-5	-	-	Water	52	-	-	-	-	40mL(-)100mL ✓
2P96275	BS	-	-	Water	53	-	-	-	-	12.5mL(-)40mL ✓
2P96277	CC3622-1	-	-	Water	54	-	-	-	-	1mL(-)100mL; all CCV low peaks present ✓
2P96279	MB	-	-	Water	55	-	-	-	-	AFA, ND ✓
2P96281	OP94481-LB	10x	-	TCLP	56	OP94481	6	N	-	5mL(-)50mL, ND ✓
2P96283	FC1200-6	1x	3	Water	57	MS52987	1	N	-	AFA, bubble > 6mm, no carryover detected, not used
2P96285	FC1200-7	1x	3	Water	58	MS52987	1	N	-	AFA, bubble > 6mm, no carryover detected, not used
2P96287	FC1200-8	1x	3	Water	59	MS52987	1	N	-	AFA, bubble > 6mm, no carryover detected, not used
2P96289	FC1200-9	1x	3	Water	60	MS52987	1	N	-	AFA, bubble > 6mm, no carryover detected, not used
2P96291	FC1200-10	1x	3	Water	61	MS52987	1	N	-	AFA, bubble > 6mm, no carryover detected, not used
2P96293	FC1200-11	1x	3	Water	62	MS52987	1	N	-	AFA, bubble > 6mm, no carryover detected, not used
2P96295	FC1200-5	10x	3	Water	63	MS52987	1	N	-	5mL(-)50mL, E-Combined ✓
2P96297	**FC977-2**	5x	3	Water	64	MS52965	1	N	**10x**	10mL(-)50mL, TCE high
2P96299	FC505-1R	10x	-	TCLP	65	MS53005	6	N	-	5mL(-)50mL ND ✓
2P96301	FC505-2R	10x	-	TCLP	66	MS53005	6	N	-	5mL(-)50mL ✓
2P96303	FC505-6R	10x	-	TCLP	67	MS53005	6	N	-	5mL(-)50mL ND ✓
2P96305	FC1188-2	10x	-	TCLP	68	MS53005	6	N	-	5mL(-)50mL ND ✓
2P96307	FC1193-1	10x	-	TCLP	69	MS53005	12	N	-	5mL(-)50mL ND ✓
2P96309	FC1193-1MS	10x	-	TCLP	70	MS53005	12	N	-	10mL(-)100mL; 12.5mL(-)40mL ✓
2P96311	FC1193-1MSD	10x	-	TCLP	71	MS53005	12	N	-	10mL(-)100mL; 12.5mL(-)40mL ✓
2P96313	FC1200-5MS	10x	3	Water	72	MS52987	1	N	-	10mL(-)100mL; 12.5mL(-)40mL ✓
2P96315	FC1200-5MSD	10x	3	Water	73	MS52987	1	N	-	10mL(-)100mL; 12.5mL(-)40mL ✓
2P96317	ECC3622-5	-	-	Water	74	-	-	-	-	40mL(-)100mL ✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.

SGS -ORLANDO

MSVOA16-I-ANALYSIS LOG

DATE: 11/30/2022	**METHODS:*** 8260	**BFB:** VS2660	**pH LOT#:** (1-12 pH paper): 220814
COLUMN TYPE: RTX-VMS	**METHOD FILE:** 2022-11-30APP9-I.M	**ICAL/CC:** VS2655, VS2620, VS2654,	(0-3 pH paper): 220416
DETECTOR: 5975C MSD	**CALIB. DATE:** 11/30/2022	VS2656, VS2657, VS2649	**KI PAPER LOT#:** 102916
INSTRUMENT: MSVOA16-I	**EM VOLTAGE:** 1247V	**ISTD/SUR:** VS2660	**AFA:** VS2248D
PURGE PRESSURE: 1.3 psi	**BFB RESPONSE:** 882024	**ICV/QC:** VS2641, VS2642, VS2658,	**SAMPLE ID VERIFIED BY:**
		VS2663, VS2659, VS2638, VS2650	KG
ANALYST: Kylie G/JoAnn L	**RUN ID:** VI2765	**DATA PROCESSED BY:** JoAnn L/ Kylie G	**DATE VERIFIED:** 11/30/2022

Data File	Sample ID	Dil.	Vial #	Matrix	ALS Pos.	Sample Method	Manually Integrated Peaks Rationale, Peak#	pH	CI ?	RR	Comments
I753066	BFB	-	-	W	1	8260		-	-	-	Passed autofind ✓
I753067	IC2765-1	-	-	W	2	8260		-	-	-	1uL→ 100mL ✓
I753068	IC2765-2	-	-	W	3	8260		-	-	-	5uL→ 100mL ✓
I753069	IC2765-3	-	-	W	4	8260		-	-	-	5uL→ 50mL ✓
I753070	IC2765-4	-	-	W	5	8260		-	-	-	12.5uL→ 50mL ✓
I753071	ICC2765-5	-	-	W	6	8260		-	-	-	20uL→ 50mL ✓
I753072	IC2765-6	-	-	W	7	8260		-	-	-	35uL→ 50mL ✓
I753073	IC2765-7	-	-	W	8	8260		-	-	-	50uL→ 50mL ✓
I753074	BLANK	-	-	W	9	8260		-	-	-	
I753075	ICV2765-5	-	-	W	10	8260		-	-	-	25uL→ 50mL ✓
I753075A	CC2765-5	-	-	W	10	8260		-	-	-	25uL→ 50mL ✓
I753076	ICV2765-4	-	-	W	11	8260		-	-	-	12.5uL→ 40mL ✓
I753076A	BS	-	-	W	11	8260		-	-	-	12.5uL→ 40mL ✓
I753077	CC2765-1	-	-	W	12	8260		-	-	-	1uL→ 100mL ✓
I753078	BLANK	-	-	W	13	8260		-	-	-	
I753079	MB	-	-	W	14	8260		-	-	-	ND✓
I753080	FC520-16	1X	2	W	15	8260		1	N	-	✓
I753081	FC520-17 10X	10X	2	W	16	8260	5mL(-) 50mL	1	N	-	E-combine✓
I753082	FC520-18 2X	2X	2	W	17	8260	25mL(-) 50mL	1	N	-	✓
I753083	FC520-19 10X	10X	2	W	18	8260	5mL(-) 50mL	1	N	-	✓
I753084	FC520-20 100X	100X	2	W	19	8260	500uL(-) 50mL	1	N	-	✓
I753085	FC520-21	1X	2	W	20	8260		1	N	-	✓
I753086	FC524-22	1X	1	W	21	8260		1	N	-	ND✓
I753087	FC524-23	1X	2	W	22	8260	Rerunning with significant headspace	1	N	-	ND✓
I753088	FC524-24	1X	2	W	23	8260		1	N	-	✓
I753089	FC524-25	1X	1	W	24	8260		1	N	-	✓
I753090	FC524-27	1X	2	W	25	8260		1	N	-	ND✓
I753091	FC524-30	1X	1	W	26	8260		1	N	-	ND✓
I753092	FC520-19MS 10X	10X		W	27	8260	10mL(-) 100mL; #22, 74(OP)	1	N	-	12.5uL→ 40mL ✓
I753093	FC520-19MSD 10X	10X		W	28	8260	10mL(-) 100mL	1	N	-	12.5uL→ 40mL ✓
I753094	ECC2765-5	-	-	W	29	8260		-	-	-	20uL→ 50mL ✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.

Manual Integration Rational SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument

Analyst's Signature: KG 12/1/22

SGS -ORLANDO

MSVOA16-I-ANALYSIS LOG

DATE: 12/15/2022	**METHODS:*** 8260	**BFB:** VS2660	**pH LOT#:** (1-12 pH paper): 220814
COLUMN TYPE: RTX-VMS	**METHOD FILE:** 2022-11-30APP9-I.M	**ICAL/CC:** VS2655, VS2620, VS2654,	(0-3 pH paper): 220416
DETECTOR: 5975C MSD	**CALIB. DATE:** 11/30/2022	VS2656, VS2657, VS2688	**KI PAPER LOT#:** 102916
INSTRUMENT: MSVOA16-I	**EM VOLTAGE:** 1247V	**ISTD/SUR:** VS2660	**AFA:** VS2248D
PURGE PRESSURE: 1.3 psi	**BFB RESPONSE:** 3979496	**ICV/QC:** VS2641, VS2642, VS2658,	**SAMPLE ID VERIFIED BY:**
		VS2663, VS2659, VS2638, VS2650	KG
ANALYST: Kylie G	**RUN ID:** VI2788	**DATA PROCESSED BY:** Kylie G	**DATE VERIFIED:** 12/15/2022

Data File	Sample ID	Dil.	Vial #	Matrix	ALS Pos.	Sample Method	Manually Integrated Peaks Rationale, Peak#	pH	CI ?	RR	Comments
I753615	BLANK	-	-	W	1	8260		-	-	-	
I753616	CC2765-5/BFB	-	-	W	2	8260		-	-	-	Passed autofind; 20uL→50mL✓
I753617	BS	-	-	W	3	8260	#22,74 (OP)	-	-	-	12.5uL→ 40mL ✓
I753618	CC2765-1	-	-	W	4	8260	All peaks present	-	-	-	1uL→ 100mL ✓
I753619	MB(AFA)	-	-	W	5	8260	AFA	-	-	-	ND ✓
I753620	FC1280-3	1X	1	W	6	8260	Bubble>6mm; all vials received	1	N	-	ND ✓
I753621	FC1280-2	1X	3	W	7	8260		1	N	-	ND ✓
I753622	FC1200-3	1X	1	W	8	8260	AFA	1	N	-	✓
I753623	FC1200-6	1X	1	W	9	8260	AFA	1	N	-	Not used - no carryover detected
I753624	FC1200-11	1X	1	W	10	8260	AFA	1	N	-	✓
I753625	FC1200-15	1X	1	W	11	8260	AFA	1	N	-	✓
I753626	FC1200-17	1X	1	W	12	8260	AFA	1	N	-	✓
I753627	FC1238-9	1X	3	W	13	8260		1	N	-	ND ✓
I753628	FC1239-1 200X	200X	3	W	14	8260	250uL(-) 50mL	1	N	-	E-Combine✓
I753629	FC1239-2 20X	20X	3	W	15	8260	2.5mL(-) 50mL	1	N	-	E-Combine✓
I753630	FC977-2 10X	10X	2	W	16	8260	5mL(-) 50mL	1	N	-	Results inconsistent - higher results reported
I753631	FC1280-1	1X	5	W	17	8260		1	N	-	ND ✓
I753632	FC1282-7	1X	1	W	18	8260		1	N	-	ND ✓
I753633	FC1282-8	1X	1	W	19	8260		1	N	-	ND ✓
I753634	FC1282-9	1X	1	W	20	8260		1	N	-	ND ✓
I753635	FC1192-22	1X	2	W	21	8260		1	N	-	ND ✓
I753636	FC1239-2MS 20X	20X	3	W	22	8260	5mL(-) 100mL; #22,74 (OP)	1	N	-	12.5uL→ 40mL ✓
I753637	FC1239-2MSD 20X	20X	3	W	23	8260	5mL(-) 100mL; #22,74 (OP)	1	N	-	12.5uL→ 40mL ✓
I753638	ECC2765-5	-	-	W	24	8260	#22,74 (OP)	-	-	-	20uL→ 50mL ✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.

Manual Integration Rational SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument

Analyst's Signature: KG 12/16/22

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

e-Hardcopy 2.0
Automated Report

Technical Report for

Hydrogeologic, Inc.

FSRA-FDSA/PSBA NS1002; KSC, FL

NS1002.05.06

SGS Job Number: FC1292

Sampling Date: 12/12/22



Report to:

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ATTN: Distribution3

Total number of pages in report: **83**

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.

Norm Farmer
Technical Director

Client Service contact: Ariel Hartney 407-425-6700

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Sample Summary

Hydrogeologic, Inc.

Job No: FC1292

FSRA-FDSA/PSBA NS1002; KSC, FL
Project No: NS1002.05.06

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC1292-1	12/12/22	09:10	WD	12/13/22	AQ	Ground Water	PBSA-MW0036-045.0-20221212
FC1292-2	12/12/22	09:45	WD	12/13/22	AQ	Ground Water	PBSA-MW0035-045.0-20221212
FC1292-3	12/12/22	10:25	WD	12/13/22	AQ	Ground Water	PBSA-MW0037-045.0-20221212
FC1292-4	12/12/22	11:00	WD	12/13/22	AQ	Ground Water	PBSA-MW0031-045.0-20221212
FC1292-5	12/12/22	11:35	WD	12/13/22	AQ	Ground Water	PBSA-MW0015-045.0-20221212
FC1292-6	12/12/22	12:19	WD	12/13/22	AQ	Ground Water	PBSA-MW0034-045.0-20221212
FC1292-7	12/12/22	13:11	WD	12/13/22	AQ	Ground Water	PBSA-MW0005-035.0-20221212
FC1292-8	12/12/22	08:00	WD	12/13/22	AQ	Trip Blank Water	PBSA-TB-20221212

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Hydrogeologic, Inc. **Job No:** FC1292

Site: FSRA-FDSA/PSBA NS1002; KSC, FL **Report Date** 12/23/2022 2:26:04

On 12/13/2022, 7 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 1.6 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC1292 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.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V5E1625

Sample(s) FC1324-3MS, FC1324-3MSD were used as the QC samples indicated.

V5E1625-MB: Sample was treated with an anti-foaming agent.

Matrix: AQ **Batch ID:** VO2871

Sample(s) FC1329-17MS, FC1329-17MSD were used as the QC samples indicated.

SGS North America Inc. - Orlando 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.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Summary of Hits

Job Number: FC1292
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/12/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FC1292-1	**PBSA-MW0036-045.0-20221212**					
Vinyl Chloride		14.0	1.0	0.50	ug/l	SW846 8260D
FC1292-2	**PBSA-MW0035-045.0-20221212**					
Vinyl Chloride		7.6	1.0	0.50	ug/l	SW846 8260D
FC1292-3	**PBSA-MW0037-045.0-20221212**					
cis-1,2-Dichloroethylene		0.43 J	1.0	0.50	ug/l	SW846 8260D
Vinyl Chloride		12.7	1.0	0.50	ug/l	SW846 8260D
FC1292-4	**PBSA-MW0031-045.0-20221212**					
Vinyl Chloride		3.2	1.0	0.50	ug/l	SW846 8260D
FC1292-5	**PBSA-MW0015-045.0-20221212**					
Vinyl Chloride		1.1	1.0	0.50	ug/l	SW846 8260D
FC1292-6	**PBSA-MW0034-045.0-20221212**					
cis-1,2-Dichloroethylene		2.4	1.0	0.50	ug/l	SW846 8260D
Vinyl Chloride		2.3	1.0	0.50	ug/l	SW846 8260D
FC1292-7	**PBSA-MW0005-035.0-20221212**					
Vinyl Chloride		6.9	1.0	0.50	ug/l	SW846 8260D
FC1292-8	**PBSA-TB-20221212**					

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: PBSA-MW0036-045.0-20221212
Lab Sample ID: FC1292-1
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Date Sampled: 12/12/22
Date Received: 12/13/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O73055.D	1	12/16/22 11:20	AL	n/a	n/a	VO2871
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	14.0	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	89%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PBSA-MW0035-045.0-20221212
Lab Sample ID: FC1292-2
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Date Sampled: 12/12/22
Date Received: 12/13/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O73056.D	1	12/16/22 11:45	AL	n/a	n/a	VO2871
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	7.6	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	94%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PBSA-MW0037-045.0-20221212
Lab Sample ID: FC1292-3
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Date Sampled: 12/12/22
Date Received: 12/13/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O73057.D	1	12/16/22 12:10	AL	n/a	n/a	VO2871
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	0.43	1.0	0.50	0.28	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	12.7	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	92%		79-125%
2037-26-5	Toluene-D8	108%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PBSA-MW0031-045.0-20221212
Lab Sample ID: FC1292-4
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Date Sampled: 12/12/22
Date Received: 12/13/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O73058.D	1	12/16/22 12:35	AL	n/a	n/a	VO2871
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	3.2	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	93%		79-125%
2037-26-5	Toluene-D8	108%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PBSA-MW0015-045.0-20221212
Lab Sample ID: FC1292-5
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Date Sampled: 12/12/22
Date Received: 12/13/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E36152.D	1	12/16/22 13:23	CF	n/a	n/a	V5E1625
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	1.1	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PBSA-MW0034-045.0-20221212
Lab Sample ID: FC1292-6
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Date Sampled: 12/12/22
Date Received: 12/13/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E36153.D	1	12/16/22 13:46	CF	n/a	n/a	V5E1625
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	2.4	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	2.3	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection 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: PBSA-MW0005-035.0-20221212
Lab Sample ID: FC1292-7
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Date Sampled: 12/12/22
Date Received: 12/13/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E36154.D	1	12/16/22 14:10	CF	n/a	n/a	V5E1625
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	6.9	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PBSA-TB-20221212
Lab Sample ID: FC1292-8
Matrix: AQ - Trip Blank Water
Method: SW846 8260D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Date Sampled: 12/12/22
Date Received: 12/13/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E36151.D	1	12/16/22 13:00	CF	n/a	n/a	V5E1625
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

SGS North America Inc - Orlando
Chain of Custody

FC1292

SGS - ORLANDO JOB # : PAGE 1 OF 1

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: HYDROGEOLOGIC INC
Address: 2405 WCOURTENAY PKWY SUITE 203
City: MERRITT ISLAND State: FL Zip: 32953
Project Contact: DENISE RIVERS Email: driversdhgl.com
Phone #: 910 233 9460
Sampler(s) Name(s) (Printed) Sampler 1: D. RIVERS Sampler 2:

Project Information

Project Name: PBSFA
Street
City KSC State
Project # NS1002.05.06
Fax #
Client Purchase Order #

Analytical Information

32603 - 1,4-DCB, VC, 1,2-DCE

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	LAB USE ONLY
1	PBSFA-MW0036-045.0-20221212	12-12-22	0910	WD	GW	3			X							
2	PBSFA-MW0035-045.0-20221212	12-12-22	0945	WD	GW	3			X							
3	PBSFA-MW0037-045.0-20221212	12-12-22	1025	WD	GW	3			X							
4	PBSFA-MW0031-045.0-20221212	12-12-22	11:00	WD	GW	3			X							
5	PBSFA-MW0016-045.0-20221212	12-12-22	1135	WD	GW	3			X							
6	PBSFA-MW0034-045.0-20221212	12-12-22	1219	WD	GW	3			X							
7	PBSFA-MW0035-035.0-20221212	12-12-22	1311	WD	GW	3			X							
8	PBSFA-TB-0000-20221212	12-12-22	0800	WD	WQ	2			X							

Turnaround Time (Business days)

10 Day (Business) Approved By: / Date:
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

INITIAL ASSESSMENT
LABEL VERIFICATION

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	Bonnie Huston/HGL	12-13-22 14:45	2	3	12/13/22 17:35	4
5	Relinquished by/Affiliation	Date Time: 12/13/22 17:35	6 Received By/Affiliation	7 Relinquished By/Affiliation	Date Time:	8 Received By/Affiliation

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 1.4 IR1

http://www.sgs.com/en/terms-and-conditions

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

FC1292: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: FC1292 **Client:** HYDROGEOLOGIC INC. **Project:** PBSA

Date / Time Received: 12/13/2022 5:35:00 PM **Delivery Method:** COURIER **Airbill #'s:**

Therm ID: IR 1; **Therm CF:** 0.2; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (1.4);

Cooler Temps (Corrected) °C: Cooler 1: (1.6);

Cooler Information	Y	N
1. Custody Seals Present	☑	☐
2. Custody Seals Intact	☑	☐
3. Temp criteria achieved	☑	☐
4. Cooler temp verification	IR Gun	
5. Cooler media	Ice (Bag)	

Trip Blank Information	Y	N	N/A
1. Trip Blank present / cooler	☑	☐	☐
2. Trip Blank listed on COC	☑	☐	☐

	W	S	N/A
3. Type Of TB Received	☑	☐	☐

Sample Information	Y	N	N/A
1. Sample labels present on bottles	☑	☐	
2. Samples preserved properly	☑	☐	
3. Sufficient volume/containers recvd for analysis:	☑	☐	
4. Condition of sample	Intact		
5. Sample recvd within HT	☑	☐	
6. Dates/Times/IDs on COC match Sample Label	☑	☐	
7. VOCs have headspace	☐	☑	☐
8. Bottles received for unspecified tests	☐	☑	
9. Compositing instructions clear	☐	☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐	☐	☑
11. % Solids Jar received?	☐	☐	☑
12. Residual Chlorine Present?	☐	☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: CARLOSD Date: 12/13/2022 5:35:00 P Reviewer: _____ Date: _____

QC Evaluation: DOD QSM5.x Limits

Job Number: FC1292
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/12/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V5E1625	SW846 8260D						
V5E1625-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	105	%	78-123
V5E1625-BS	156-60-5	trans-1,2-Dichloroethylene	BSP	REC	100	%	75-124
V5E1625-BS	79-01-6	Trichloroethylene	BSP	REC	101	%	79-123
V5E1625-BS	75-01-4	Vinyl Chloride	BSP	REC	122	%	58-137
V5E1625-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	100	%	80-119
V5E1625-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	99	%	81-118
V5E1625-BS	2037-26-5	Toluene-D8	BSP	SURR	98	%	89-112
V5E1625-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	99	%	85-114
FC1324-3MS*	156-59-2	cis-1,2-Dichloroethylene	MS	REC	98	%	78-123
FC1324-3MS*	156-60-5	trans-1,2-Dichloroethylene	MS	REC	95	%	75-124
FC1324-3MS*	79-01-6	Trichloroethylene	MS	REC	96	%	79-123
FC1324-3MS*	75-01-4	Vinyl Chloride	MS	REC	111	%	58-137
FC1324-3MS*	1868-53-7	Dibromofluoromethane	MS	SURR	102	%	80-119
FC1324-3MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	102	%	81-118
FC1324-3MS*	2037-26-5	Toluene-D8	MS	SURR	96	%	89-112
FC1324-3MS*	460-00-4	4-Bromofluorobenzene	MS	SURR	99	%	85-114
FC1324-3MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	102	%	78-123
FC1324-3MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	4	%	20
FC1324-3MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	REC	99	%	75-124
FC1324-3MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	RPD	4	%	20
FC1324-3MSD*	79-01-6	Trichloroethylene	MSD	REC	99	%	79-123
FC1324-3MSD*	79-01-6	Trichloroethylene	MSD	RPD	3	%	20
FC1324-3MSD*	75-01-4	Vinyl Chloride	MSD	REC	114	%	58-137
FC1324-3MSD*	75-01-4	Vinyl Chloride	MSD	RPD	2	%	20
FC1324-3MSD*	1868-53-7	Dibromofluoromethane	MSD	SURR	102	%	80-119
FC1324-3MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	104	%	81-118
FC1324-3MSD*	2037-26-5	Toluene-D8	MSD	SURR	97	%	89-112
FC1324-3MSD*	460-00-4	4-Bromofluorobenzene	MSD	SURR	98	%	85-114
V5E1625-MB	1868-53-7	Dibromofluoromethane	MB	SURR	102	%	80-119
V5E1625-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	99	%	81-118
V5E1625-MB	2037-26-5	Toluene-D8	MB	SURR	99	%	89-112
V5E1625-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	103	%	85-114
FC1292-5	1868-53-7	Dibromofluoromethane	SAMP	SURR	100	%	80-119
FC1292-5	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	101	%	81-118
FC1292-5	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC1292-5	460-00-4	4-Bromofluorobenzene	SAMP	SURR	103	%	85-114
FC1292-6	1868-53-7	Dibromofluoromethane	SAMP	SURR	102	%	80-119
FC1292-6	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	100	%	81-118
FC1292-6	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FC1292-6	460-00-4	4-Bromofluorobenzene	SAMP	SURR	101	%	85-114
FC1292-7	1868-53-7	Dibromofluoromethane	SAMP	SURR	100	%	80-119
FC1292-7	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	100	%	81-118

* Sample used for QC is not from job FC1292

QC Evaluation: DOD QSM5.x Limits

Job Number: FC1292
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/12/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC1292-7	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112
FC1292-7	460-00-4	4-Bromofluorobenzene	SAMP	SURR	102	%	85-114
FC1292-8	1868-53-7	Dibromofluoromethane	SAMP	SURR	102	%	80-119
FC1292-8	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	102	%	81-118
FC1292-8	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC1292-8	460-00-4	4-Bromofluorobenzene	SAMP	SURR	103	%	85-114
VO2871	SW846 8260D						
VO2871-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	88	%	78-123
VO2871-BS	156-60-5	trans-1,2-Dichloroethylene	BSP	REC	86	%	75-124
VO2871-BS	79-01-6	Trichloroethylene	BSP	REC	89	%	79-123
VO2871-BS	75-01-4	Vinyl Chloride	BSP	REC	110	%	58-137
VO2871-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	96	%	80-119
VO2871-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	92	%	81-118
VO2871-BS	2037-26-5	Toluene-D8	BSP	SURR	103	%	89-112
VO2871-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	94	%	85-114
FC1329-17MS*	156-59-2	cis-1,2-Dichloroethylene	MS	REC	93	%	78-123
FC1329-17MS*	156-60-5	trans-1,2-Dichloroethylene	MS	REC	86	%	75-124
FC1329-17MS*	79-01-6	Trichloroethylene	MS	REC	89	%	79-123
FC1329-17MS*	75-01-4	Vinyl Chloride	MS	REC	119	%	58-137
FC1329-17MS*	1868-53-7	Dibromofluoromethane	MS	SURR	96	%	80-119
FC1329-17MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	92	%	81-118
FC1329-17MS*	2037-26-5	Toluene-D8	MS	SURR	104	%	89-112
FC1329-17MS*	460-00-4	4-Bromofluorobenzene	MS	SURR	101	%	85-114
FC1329-17MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	88	%	78-123
FC1329-17MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	4	%	20
FC1329-17MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	REC	83	%	75-124
FC1329-17MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	RPD	3	%	20
FC1329-17MSD*	79-01-6	Trichloroethylene	MSD	REC	87	%	79-123
FC1329-17MSD*	79-01-6	Trichloroethylene	MSD	RPD	2	%	20
FC1329-17MSD*	75-01-4	Vinyl Chloride	MSD	REC	113	%	58-137
FC1329-17MSD*	75-01-4	Vinyl Chloride	MSD	RPD	5	%	20
FC1329-17MSD*	1868-53-7	Dibromofluoromethane	MSD	SURR	98	%	80-119
FC1329-17MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	91	%	81-118
FC1329-17MSD*	2037-26-5	Toluene-D8	MSD	SURR	99	%	89-112
FC1329-17MSD*	460-00-4	4-Bromofluorobenzene	MSD	SURR	88	%	85-114
VO2871-MB	1868-53-7	Dibromofluoromethane	MB	SURR	97	%	80-119
VO2871-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	102	%	81-118
VO2871-MB	2037-26-5	Toluene-D8	MB	SURR	101	%	89-112
VO2871-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	85	%	85-114
FC1292-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	95	%	80-119
FC1292-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	89	%	81-118
FC1292-1	2037-26-5	Toluene-D8	SAMP	SURR	106	%	89-112
FC1292-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	93	%	85-114

* Sample used for QC is not from job FC1292

QC Evaluation: DOD QSM5.x Limits

Job Number: FC1292
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/12/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC1292-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	94	%	80-119
FC1292-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	94	%	81-118
FC1292-2	2037-26-5	Toluene-D8	SAMP	SURR	107	%	89-112
FC1292-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	85-114
FC1292-3	1868-53-7	Dibromofluoromethane	SAMP	SURR	95	%	80-119
FC1292-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	92	%	81-118
FC1292-3	2037-26-5	Toluene-D8	SAMP	SURR	108	%	89-112
FC1292-3	460-00-4	4-Bromofluorobenzene	SAMP	SURR	93	%	85-114
FC1292-4	1868-53-7	Dibromofluoromethane	SAMP	SURR	94	%	80-119
FC1292-4	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	93	%	81-118
FC1292-4	2037-26-5	Toluene-D8	SAMP	SURR	108	%	89-112
FC1292-4	460-00-4	4-Bromofluorobenzene	SAMP	SURR	96	%	85-114

* Sample used for QC is not from job FC1292

MS Volatiles

6

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: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2871-MB	O73054.D	1	12/16/22	AL	n/a	n/a	VO2871

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

FC1292-1, FC1292-2, FC1292-3, FC1292-4

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	85%	83-118%

Method Blank Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1625-MB [a]	5E36150.D	1	12/16/22	CF	n/a	n/a	V5E1625

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

FC1292-5, FC1292-6, FC1292-7, FC1292-8

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

(a) Sample was treated with an anti-foaming agent.

Blank Spike Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2871-BS	O73052.D	1	12/16/22	AL	n/a	n/a	VO2871

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

FC1292-1, FC1292-2, FC1292-3, FC1292-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	22.1	88	78-120
156-60-5	trans-1,2-Dichloroethylene	25	21.5	86	76-127
79-01-6	Trichloroethylene	25	22.3	89	81-126
75-01-4	Vinyl Chloride	25	27.6	110	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	92%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	94%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1625-BS	5E36147.D	1	12/16/22	CF	n/a	n/a	V5E1625

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

FC1292-5, FC1292-6, FC1292-7, FC1292-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	26.3	105	78-120
156-60-5	trans-1,2-Dichloroethylene	25	25.1	100	76-127
79-01-6	Trichloroethylene	25	25.3	101	81-126
75-01-4	Vinyl Chloride	25	30.6	122	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC1329-17MS	O73075.D	100	12/16/22	AL	n/a	n/a	VO2871
FC1329-17MSD	O73076.D	100	12/16/22	AL	n/a	n/a	VO2871
FC1329-17	O73073.D	50	12/16/22	AL	n/a	n/a	VO2871

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

FC1292-1, FC1292-2, FC1292-3, FC1292-4

CAS No.	Compound	FC1329-17 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	505		2500	2830	93	2500	2710	88	4	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		2500	2140	86	2500	2080	83	3	76-127/17
79-01-6	Trichloroethylene	84.2		2500	2300	89	2500	2250	87	2	81-126/15
75-01-4	Vinyl Chloride	451		2500	3430	119	2500	3270	113	5	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FC1329-17	Limits
1868-53-7	Dibromofluoromethane	96%	98%	93%	83-118%
17060-07-0	1,2-Dichloroethane-D4	92%	91%	91%	79-125%
2037-26-5	Toluene-D8	104%	99%	101%	85-112%
460-00-4	4-Bromofluorobenzene	101%	88%	95%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC1324-3MS	5E36171.D	1	12/16/22	CF	n/a	n/a	V5E1625
FC1324-3MSD	5E36172.D	1	12/16/22	CF	n/a	n/a	V5E1625
FC1324-3	5E36158.D	1	12/16/22	CF	n/a	n/a	V5E1625

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

FC1292-5, FC1292-6, FC1292-7, FC1292-8

CAS No.	Compound	FC1324-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	1.0	U	25	24.5	98	25	25.5	102	4	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.0	U	25	23.8	95	25	24.7	99	4	76-127/17
79-01-6	Trichloroethylene	1.0	U	25	24.0	96	25	24.7	99	3	81-126/15
75-01-4	Vinyl Chloride	1.0	U	25	27.7	111	25	28.4	114	2	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FC1324-3	Limits
1868-53-7	Dibromofluoromethane	102%	102%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	104%	99%	79-125%
2037-26-5	Toluene-D8	96%	97%	97%	85-112%
460-00-4	4-Bromofluorobenzene	99%	98%	100%	83-118%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample:	V5E1617-BFB	**Injection Date:**	12/08/22
Lab File ID:	5E35978.D	**Injection Time:**	10:48
Instrument ID:	GCMS5E		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	13727	25.3		Pass
75	30.0 - 60.0% of mass 95	29731	54.8		Pass
95	Base peak, 100% relative abundance	54288	100.0		Pass
96	5.0 - 9.0% of mass 95	3641	6.71		Pass
173	Less than 2.0% of mass 174	617	1.14	(1.28) [a]	Pass
174	50.0 - 100.0% of mass 95	48392	89.1		Pass
175	5.0 - 9.0% of mass 174	3371	6.21	(6.97) [a]	Pass
176	95.0 - 101.0% of mass 174	46675	86.0	(96.5) [a]	Pass
177	5.0 - 9.0% of mass 176	3157	5.82	(6.76) [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
V5E1617-IC1617	5E35978.D	12/08/22	10:48	00:00	Initial cal 1
V5E1617-IC1617	5E35979.D	12/08/22	11:33	00:45	Initial cal 2
V5E1617-IC1617	5E35980.D	12/08/22	11:56	01:08	Initial cal 3
V5E1617-IC1617	5E35981.D	12/08/22	12:19	01:31	Initial cal 4
V5E1617-ICC1617	5E35982.D	12/08/22	12:42	01:54	Initial cal 5
V5E1617-IC1617	5E35983.D	12/08/22	13:05	02:17	Initial cal 6
V5E1617-IC1617	5E35984.D	12/08/22	14:00	03:12	Initial cal 7
V5E1617-ICV1617	5E35986.D	12/08/22	15:25	04:37	Initial cal verification 5
V5E1617-CC1617	5E35986A.D	12/08/22	15:25	04:37	Continuing cal 5
V5E1617-ICV1617	5E35987.D	12/08/22	16:06	05:18	Initial cal verification 4
V5E1617-BS	5E35987A.D	12/08/22	16:06	05:18	Blank Spike
V5E1617-MB	5E35990.D	12/08/22	17:39	06:51	Method Blank
ZZZZZZ	5E35991.D	12/08/22	18:02	07:14	(unrelated sample)
ZZZZZZ	5E35992.D	12/08/22	18:25	07:37	(unrelated sample)
ZZZZZZ	5E35993.D	12/08/22	18:48	08:00	(unrelated sample)
ZZZZZZ	5E35994.D	12/08/22	19:11	08:23	(unrelated sample)
ZZZZZZ	5E35995.D	12/08/22	19:34	08:46	(unrelated sample)
ZZZZZZ	5E35996.D	12/08/22	19:58	09:10	(unrelated sample)
ZZZZZZ	5E35997.D	12/08/22	20:21	09:33	(unrelated sample)
V5E1617-ECC1617	5E35998.D	12/08/22	20:44	09:56	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample:	V5E1625-BFB	**Injection Date:**	12/16/22
Lab File ID:	5E36145.D	**Injection Time:**	10:42
Instrument ID:	GCMS5E		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	13849	25.5		Pass
75	30.0 - 60.0% of mass 95	29504	54.4		Pass
95	Base peak, 100% relative abundance	54256	100.0		Pass
96	5.0 - 9.0% of mass 95	3756	6.92		Pass
173	Less than 2.0% of mass 174	365	0.67	(0.74) [a]	Pass
174	50.0 - 100.0% of mass 95	49256	90.8		Pass
175	5.0 - 9.0% of mass 174	3859	7.11	(7.83) [a]	Pass
176	95.0 - 101.0% of mass 174	48811	90.0	(99.1) [a]	Pass
177	5.0 - 9.0% of mass 176	3025	5.58	(6.20) [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
V5E1625-CC1617	5E36146.D	12/16/22	11:05	00:23	Continuing cal 5
V5E1625-BS	5E36147.D	12/16/22	11:28	00:46	Blank Spike
V5E1625-MB	5E36150.D	12/16/22	12:37	01:55	Method Blank
FC1292-8	5E36151.D	12/16/22	13:00	02:18	PBSA-TB-20221212
FC1292-5	5E36152.D	12/16/22	13:23	02:41	PBSA-MW0015-045.0-20221212
FC1292-6	5E36153.D	12/16/22	13:46	03:04	PBSA-MW0034-045.0-20221212
FC1292-7	5E36154.D	12/16/22	14:10	03:28	PBSA-MW0005-035.0-20221212
ZZZZZZ	5E36155.D	12/16/22	14:33	03:51	(unrelated sample)
ZZZZZZ	5E36156.D	12/16/22	14:56	04:14	(unrelated sample)
ZZZZZZ	5E36157.D	12/16/22	15:19	04:37	(unrelated sample)
FC1324-3	5E36158.D	12/16/22	15:42	05:00	(used for QC only; not part of job FC1292)
ZZZZZZ	5E36159.D	12/16/22	16:05	05:23	(unrelated sample)
ZZZZZZ	5E36160.D	12/16/22	16:28	05:46	(unrelated sample)
ZZZZZZ	5E36161.D	12/16/22	16:51	06:09	(unrelated sample)
ZZZZZZ	5E36162.D	12/16/22	17:14	06:32	(unrelated sample)
ZZZZZZ	5E36163.D	12/16/22	17:37	06:55	(unrelated sample)
ZZZZZZ	5E36164.D	12/16/22	18:01	07:19	(unrelated sample)
ZZZZZZ	5E36165.D	12/16/22	18:24	07:42	(unrelated sample)
ZZZZZZ	5E36166.D	12/16/22	18:47	08:05	(unrelated sample)
ZZZZZZ	5E36167.D	12/16/22	19:10	08:28	(unrelated sample)
ZZZZZZ	5E36168.D	12/16/22	19:33	08:51	(unrelated sample)
ZZZZZZ	5E36169.D	12/16/22	19:56	09:14	(unrelated sample)
ZZZZZZ	5E36170.D	12/16/22	20:19	09:37	(unrelated sample)
FC1324-3MS	5E36171.D	12/16/22	20:42	10:00	Matrix Spike

Instrument Performance Check (BFB)

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample:	V5E1625-BFB	**Injection Date:**	12/16/22
Lab File ID:	5E36145.D	**Injection Time:**	10:42
Instrument ID:	GCMS5E		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FC1324-3MSD	5E36172.D	12/16/22	21:05	10:23	Matrix Spike Duplicate
V5E1625-ECC1617	5E36173.D	12/16/22	21:28	10:46	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VO2866-BFB
Lab File ID: O72889.D
Instrument ID: GCMSO
Injection Date: 12/08/22
Injection Time: 09:31

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	37693	20.6		Pass
75	30.0 - 60.0% of mass 95	90992	49.6		Pass
95	Base peak, 100% relative abundance	183381	100.0		Pass
96	5.0 - 9.0% of mass 95	12483	6.81		Pass
173	Less than 2.0% of mass 174	1006	0.55	(0.63) [a]	Pass
174	50.0 - 100.0% of mass 95	160725	87.6		Pass
175	5.0 - 9.0% of mass 174	11036	6.02	(6.87) [a]	Pass
176	95.0 - 101.0% of mass 174	157312	85.8	(97.9) [a]	Pass
177	5.0 - 9.0% of mass 176	10341	5.64	(6.57) [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
VO2866-IC2866	O72890.D	12/08/22	09:56	00:25	Initial cal 1
VO2866-IC2866	O72891.D	12/08/22	10:20	00:49	Initial cal 2
VO2866-IC2866	O72892.D	12/08/22	10:45	01:14	Initial cal 3
VO2866-IC2866	O72893.D	12/08/22	11:10	01:39	Initial cal 4
VO2866-ICC2866	O72894.D	12/08/22	11:35	02:04	Initial cal 5
VO2866-IC2866	O72895.D	12/08/22	12:00	02:29	Initial cal 6
VO2866-IC2866	O72896.D	12/08/22	12:25	02:54	Initial cal 7
VO2866-ICV2866	O72898.D	12/08/22	13:16	03:45	Initial cal verification 5
VO2866-CC2866	O72898A.D	12/08/22	13:16	03:45	Continuing cal 5
VO2866-ICV2866	O72899.D	12/08/22	13:59	04:28	Initial cal verification 4
VO2866-BS	O72899A.D	12/08/22	13:59	04:28	Blank Spike
VO2866-MB	O72901.D	12/08/22	15:38	06:07	Method Blank
ZZZZZZ	O72902.D	12/08/22	16:02	06:31	(unrelated sample)
ZZZZZZ	O72903.D	12/08/22	16:27	06:56	(unrelated sample)
ZZZZZZ	O72904.D	12/08/22	16:52	07:21	(unrelated sample)
ZZZZZZ	O72905.D	12/08/22	17:17	07:46	(unrelated sample)
ZZZZZZ	O72906.D	12/08/22	17:42	08:11	(unrelated sample)
ZZZZZZ	O72907.D	12/08/22	18:07	08:36	(unrelated sample)
ZZZZZZ	O72908.D	12/08/22	18:32	09:01	(unrelated sample)
ZZZZZZ	O72909.D	12/08/22	18:57	09:26	(unrelated sample)
ZZZZZZ	O72910.D	12/08/22	19:22	09:51	(unrelated sample)
ZZZZZZ	O72911.D	12/08/22	19:46	10:15	(unrelated sample)
ZZZZZZ	O72912.D	12/08/22	20:11	10:40	(unrelated sample)
ZZZZZZ	O72913.D	12/08/22	20:36	11:05	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample:	VO2866-BFB	**Injection Date:**	12/08/22
Lab File ID:	O72889.D	**Injection Time:**	09:31
Instrument ID:	GCMSO		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	O72914.D	12/08/22	21:01	11:30	(unrelated sample)
VO2866-ECC2866	O72915.D	12/08/22	21:26	11:55	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VO2871-BFB
Lab File ID: O73051.D
Instrument ID: GCMSO
Injection Date: 12/16/22
Injection Time: 09:40

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	26109	21.1		Pass
75	30.0 - 60.0% of mass 95	62283	50.4		Pass
95	Base peak, 100% relative abundance	123581	100.0		Pass
96	5.0 - 9.0% of mass 95	8411	6.81		Pass
173	Less than 2.0% of mass 174	624	0.50	(0.58) [a]	Pass
174	50.0 - 100.0% of mass 95	107800	87.2		Pass
175	5.0 - 9.0% of mass 174	7579	6.13	(7.03) [a]	Pass
176	95.0 - 101.0% of mass 174	103376	83.7	(95.9) [a]	Pass
177	5.0 - 9.0% of mass 176	7002	5.67	(6.77) [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
VO2871-CC2866	O73051.D	12/16/22	09:40	00:00	Continuing cal 5
VO2871-BS	O73052.D	12/16/22	10:05	00:25	Blank Spike
VO2871-MB	O73054.D	12/16/22	10:55	01:15	Method Blank
FC1292-1	O73055.D	12/16/22	11:20	01:40	PBSA-MW0036-045.0-20221212
FC1292-2	O73056.D	12/16/22	11:45	02:05	PBSA-MW0035-045.0-20221212
FC1292-3	O73057.D	12/16/22	12:10	02:30	PBSA-MW0037-045.0-20221212
FC1292-4	O73058.D	12/16/22	12:35	02:55	PBSA-MW0031-045.0-20221212
ZZZZZZ	O73059.D	12/16/22	13:00	03:20	(unrelated sample)
ZZZZZZ	O73060.D	12/16/22	13:24	03:44	(unrelated sample)
ZZZZZZ	O73061.D	12/16/22	13:49	04:09	(unrelated sample)
ZZZZZZ	O73062.D	12/16/22	14:14	04:34	(unrelated sample)
ZZZZZZ	O73063.D	12/16/22	14:39	04:59	(unrelated sample)
ZZZZZZ	O73064.D	12/16/22	15:04	05:24	(unrelated sample)
ZZZZZZ	O73065.D	12/16/22	15:29	05:49	(unrelated sample)
ZZZZZZ	O73066.D	12/16/22	15:53	06:13	(unrelated sample)
ZZZZZZ	O73067.D	12/16/22	16:18	06:38	(unrelated sample)
ZZZZZZ	O73068.D	12/16/22	16:43	07:03	(unrelated sample)
ZZZZZZ	O73069.D	12/16/22	17:08	07:28	(unrelated sample)
ZZZZZZ	O73070.D	12/16/22	17:33	07:53	(unrelated sample)
ZZZZZZ	O73071.D	12/16/22	17:58	08:18	(unrelated sample)
ZZZZZZ	O73072.D	12/16/22	18:23	08:43	(unrelated sample)
FC1329-17	O73073.D	12/16/22	18:47	09:07	(used for QC only; not part of job FC1292)
ZZZZZZ	O73074.D	12/16/22	19:12	09:32	(unrelated sample)
FC1329-17MS	O73075.D	12/16/22	19:37	09:57	Matrix Spike

Instrument Performance Check (BFB)

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample:	VO2871-BFB	**Injection Date:**	12/16/22
Lab File ID:	O73051.D	**Injection Time:**	09:40
Instrument ID:	GCMSO		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FC1329-17MSD	O73076.D	12/16/22	20:02	10:22	Matrix Spike Duplicate
VO2871-ECC2866	O73077.D	12/16/22	20:27	10:47	Ending cal 5

Internal Standard Area Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Check Std:	V5E1625-CC1617	**Injection Date:**	12/16/22
Lab File ID:	5E36146.D	**Injection Time:**	11:05
Instrument ID:	GCMS5E	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	367847	8.95	264640	12.11	129127	14.47
Check Std [b]	335761	8.95	252444	12.11	127872	14.47
Upper Limit [c]	671522	9.12	504888	12.28	255744	14.64
Lower Limit [d]	167881	8.78	126222	11.94	63936	14.30

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5E1625-BS	340634	8.95	253356	12.11	124550	14.47
V5E1625-MB [e]	294841	8.95	215647	12.12	100707	14.47
FC1292-8	287918	8.95	211451	12.12	98473	14.47
FC1292-5	286761	8.95	210078	12.11	99820	14.47
FC1292-6	286275	8.95	211747	12.11	99373	14.47
FC1292-7	293540	8.95	217357	12.12	101439	14.47
ZZZZZZ	290059	8.95	212990	12.11	100355	14.47
ZZZZZZ	281097	8.95	209400	12.12	97137	14.47
ZZZZZZ	283410	8.95	208500	12.11	97783	14.47
FC1324-3	281699	8.95	209907	12.11	97926	14.47
ZZZZZZ	288001	8.95	212173	12.12	99986	14.47
ZZZZZZ	283060	8.95	213581	12.12	99725	14.47
ZZZZZZ	280847	8.95	207131	12.11	97291	14.47
ZZZZZZ	280461	8.95	208379	12.11	99336	14.47
ZZZZZZ	286498	8.95	211508	12.11	99832	14.47
ZZZZZZ	278528	8.95	209478	12.11	97363	14.47
ZZZZZZ	276745	8.95	207439	12.11	94854	14.47
ZZZZZZ	274714	8.95	207544	12.11	95970	14.47
ZZZZZZ	279559	8.95	210826	12.11	98109	14.47
ZZZZZZ	286457	8.95	213631	12.11	108054	14.47
ZZZZZZ	285740	8.95	211820	12.11	98230	14.47
ZZZZZZ	284375	8.95	206956	12.12	96479	14.47
FC1324-3MS	302182	8.95	228229	12.11	112085	14.47
FC1324-3MSD	305976	8.95	229129	12.11	112882	14.47
V5E1625-ECC1617	318916	8.95	239406	12.12	122227	14.47

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: V5E1617-ICC1617 5E35982.D 12/08/22 12:42
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.

Internal Standard Area Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Check Std:	V5E1625-CC1617	**Injection Date:**	12/16/22
Lab File ID:	5E36146.D	**Injection Time:**	11:05
Instrument ID:	GCMS5E	**Method:**	SW846 8260D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT

(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
(e) Sample was treated with an anti-foaming agent.

Internal Standard Area Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Check Std:	VO2871-CC2866	**Injection Date:**	12/16/22
Lab File ID:	O73051.D	**Injection Time:**	09:40
Instrument ID:	GCMSO	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	828618	8.55	603499	11.72	216353	14.10
Check Std [b]	721196	8.55	507921	11.72	191540	14.10
Upper Limit [c]	1442392	8.72	1015842	11.89	383080	14.27
Lower Limit [d]	360598	8.38	253961	11.55	95770	13.93

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VO2871-BS	750228	8.55	514338	11.72	185758	14.10
VO2871-MB	701935	8.55	504409	11.73	212747	14.10
FC1292-1	671581	8.55	460849	11.72	161859	14.10
FC1292-2	663555	8.55	447170	11.72	140137	14.10
FC1292-3	656249	8.55	441489	11.72	151971	14.10
FC1292-4	641612	8.55	427921	11.72	143325	14.10
ZZZZZZ	627819	8.55	425081	11.73	143962	14.10
ZZZZZZ	651167	8.55	466886	11.72	175107	14.10
ZZZZZZ	690005	8.55	466414	11.73	152252	14.10
ZZZZZZ	686951	8.55	472269	11.73	174092	14.10
ZZZZZZ	672396	8.55	447263	11.73	143458	14.10
ZZZZZZ	658392	8.55	429807	11.72	131089	14.10
ZZZZZZ	662113	8.55	444339	11.72	153771	14.10
ZZZZZZ	650975	8.55	430526	11.73	133814	14.10
ZZZZZZ	668222	8.55	520696	11.73	189695	14.10
ZZZZZZ	727387	8.55	487073	11.72	158706	14.10
ZZZZZZ	727866	8.55	545531	11.73	205491	14.10
ZZZZZZ	704144	8.55	480627	11.72	171105	14.10
ZZZZZZ	691153	8.55	531020	11.72	200923	14.10
ZZZZZZ	711713	8.55	498287	11.73	189096	14.10
FC1329-17	686845	8.55	495348	11.72	173918	14.10
ZZZZZZ	709529	8.55	510908	11.73	198661	14.10
FC1329-17MS	721589	8.55	497694	11.72	159047	14.10
FC1329-17MSD	762324	8.55	566363	11.72	240317	14.10
VO2871-ECC2866	787734	8.55	583197	11.72	256389	14.10

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: VO2866-ICC2866 O72894.D 12/08/22 11:35
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.

Internal Standard Area Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Check Std:	VO2871-CC2866	**Injection Date:**	12/16/22
Lab File ID:	O73051.D	**Injection Time:**	09:40
Instrument ID:	GCMSO	**Method:**	SW846 8260D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT

(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Surrogate Recovery Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FC1292-1	O73055.D	95	89	106	93
FC1292-2	O73056.D	94	94	107	99
FC1292-3	O73057.D	95	92	108	93
FC1292-4	O73058.D	94	93	108	96
FC1292-5	5E36152.D	100	101	99	103
FC1292-6	5E36153.D	102	100	97	101
FC1292-7	5E36154.D	100	100	98	102
FC1292-8	5E36151.D	102	102	99	103
FC1324-3MS	5E36171.D	102	102	96	99
FC1324-3MSD	5E36172.D	102	104	97	98
FC1329-17MS	O73075.D	96	92	104	101
FC1329-17MSD	O73076.D	98	91	99	88
V5E1625-BS	5E36147.D	100	99	98	99
V5E1625-MB	5E36150.D	102	99	99	103
VO2871-BS	O73052.D	96	92	103	94
VO2871-MB	O73054.D	97	102	101	85

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-118%
S2 = 1,2-Dichloroethane-D4	79-125%
S3 = Toluene-D8	85-112%
S4 = 4-Bromofluorobenzene	83-118%

Initial Calibration Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICC1617
Lab FileID: 5E35982.D

Response Factor Report MSVOA20

Method : C:\msdchem\1\met...pIX12-08-2022_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

Calibration Files
1 =5E35978.D 2 =5E35979.D 3 =5E35980.D 4 =5E35981.D
5 =5E35982.D 6 =5E35983.D 7 =5E35984.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.331	0.277	0.321	0.304	0.286	0.316	0.302	0.305	6.29
3)P Chloromethane	0.277	0.279	0.315	0.287	0.284	0.296	0.311	0.293	5.20
4)C Vinyl Chloride	0.288	0.298	0.338	0.305	0.304	0.317	0.325	0.311	5.56
5) 1,3-Butadiene	0.210	0.209	0.205	0.200	0.185	0.208	0.175	0.199	6.80
6) Bromomethane	0.140	0.134	0.162	0.162	0.164	0.184	0.194	0.163	13.12
7) Chloroethane	0.191	0.185	0.220	0.224	0.255	0.452	0.524	0.293	46.73
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9954									
Response Ratio = 0.00000 + 0.13976 *A + 0.19750 *A^2									
8) Trichlorofluorome	0.364	0.341	0.394	0.380	0.371	0.395	0.386	0.376	5.06
9) Ethyl Ether	0.189	0.232	0.205	0.230	0.228	0.240	0.224	0.221	7.98
10) Ethanol			0.000	0.002	0.002	0.002	0.003	0.002	46.39
11) 1,2-Dichlorotrifl	0.266	0.318	0.306	0.334	0.319	0.349	0.319	0.316	8.20
12)C 1,1-Dichloroethen	0.347	0.392	0.371	0.416	0.403	0.428	0.396	0.393	6.95
13) Freon 113	0.245	0.273	0.250	0.275	0.262	0.295	0.256	0.265	6.50
14) Carbon Disulfide	0.751	0.779	0.691	0.751	0.723	0.770	0.711	0.740	4.34
15) Iodomethane	0.193	0.285	0.326	0.376	0.384	0.392	0.382	0.334	21.90
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9986									
Response Ratio = 0.00000 + 0.35603 *A + 0.01713 *A^2									
16) Acrolein	0.036	0.043	0.047	0.052	0.052	0.054	0.049	0.048	13.24
17) Allyl chloride	0.273	0.258	0.265	0.283	0.266	0.283	0.267	0.271	3.48
18) Methylene Chlorid	0.563	0.431	0.365	0.367	0.360	0.359	0.332	0.397	19.95
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9991									
Response Ratio = 0.00000 + 0.39060 *A + -0.02825 *A^2									
19) Acetone	0.112	0.071	0.078	0.082	0.072	0.074	0.070	0.080	18.38
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9981									
Response Ratio = 0.00000 + 0.08034 *A + -0.00105 *A^2									
20) Methyl acetate	0.126	0.138	0.148	0.162	0.166	0.170	0.159	0.153	10.60
21) trans-1,2-Dichlor	0.323	0.363	0.336	0.385	0.372	0.400	0.377	0.365	7.38
22) Hexane	0.183	0.215	0.220	0.239	0.234	0.222	0.221	0.219	8.16
23) Methyl Tert Butyl	0.614	0.717	0.700	0.773	0.757	0.798	0.740	0.728	8.27
24) Acetonitrile	0.027	0.021	0.025	0.026	0.024	0.025	0.025	0.025	7.24
25) Di-isopropyl ethe	0.630	0.686	0.669	0.728	0.724	0.750	0.707	0.699	5.81
26) Chloroprene	0.321	0.317	0.327	0.335	0.322	0.348	0.322	0.328	3.23
27)P 1,1-Dichloroethan	0.468	0.467	0.448	0.504	0.496	0.519	0.487	0.484	5.07
28) Acrylonitrile	0.065	0.088	0.103	0.091	0.096	0.100	0.098	0.091	14.16
29) ETBE	0.689	0.767	0.769	0.862	0.842	0.885	0.844	0.808	8.56
30) Tert Butyl Alcoho	0.024	0.028	0.037	0.039	0.038	0.038	0.032	0.034	17.30
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9961									
Response Ratio = 0.00000 + 0.03967 *A + -0.00030 *A^2									
31) Vinyl acetate	0.367	0.450	0.474	0.467	0.498	0.537	0.536	0.476	12.26

Initial Calibration Summary

Job Number: FC1292 **Sample:** V5E1617-ICC1617
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 5E35982.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

32)	cis-1,2-Dichloroe	0.230	0.264	0.263	0.275	0.275	0.291	0.271	0.267	7.01
33)	2,2-Dichloropropa	0.340	0.395	0.373	0.394	0.396	0.418	0.390	0.387	6.29
34)	Bromochloromethan	0.093	0.134	0.123	0.147	0.139	0.143	0.130	0.130	13.97
35)	Cyclohexane	0.374	0.420	0.423	0.449	0.426	0.484	0.423	0.429	7.72
36)C	Chloroform	0.430	0.497	0.438	0.487	0.480	0.500	0.464	0.471	5.91
37)	Ethyl acetate	0.203	0.215	0.246	0.232	0.249	0.258	0.241	0.235	8.39
38)	Tetrahydrofuran		0.069	0.079	0.080	0.071	0.075	0.065	0.073	8.07
39)S	Dibromofluorometh	0.277	0.276	0.281	0.271	0.275	0.278	0.281	0.277	1.23
40)	Carbon Tetrachlor	0.285	0.353	0.321	0.359	0.353	0.385	0.348	0.343	9.27
41)	1,1,1-Trichloroet	0.336	0.391	0.383	0.412	0.403	0.427	0.393	0.392	7.33
42)	2-Butanone	0.135	0.102	0.114	0.128	0.117	0.122	0.107	0.118	9.70
43)	1,1-Dichloroprope	0.316	0.348	0.338	0.369	0.360	0.385	0.357	0.353	6.29
44)	tert-Butyl format	0.097	0.099	0.105	0.107	0.109			0.103	4.96
45)	Propionitrile	0.028	0.035	0.041	0.043	0.044	0.046	0.042	0.040	15.30

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9980
Response Ratio = 0.00000 + 0.04328 *A + -0.00001 *A^2

46)	Methacrylonitrile	0.143	0.124	0.140	0.150	0.149	0.157	0.148	0.145	7.22
47)	Benzene	0.963	1.017	0.962	1.051	1.030	1.074	1.002	1.014	4.17
48)	TAME	0.583	0.695	0.688	0.763	0.763	0.808	0.751	0.722	10.26
49)S	1,2-Dichloroethan	0.312	0.316	0.322	0.317	0.320	0.319	0.321	0.318	1.03
50)	1,2-Dichloroethan	0.370	0.365	0.364	0.407	0.397	0.412	0.380	0.385	5.25
51)	tert Amyl alcohol	0.013	0.020	0.023	0.028	0.027	0.028	0.023	0.023	23.66

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9944
Response Ratio = 0.00000 + 0.02728 *A + -0.00014 *A^2

52)	Trichloroethene	0.240	0.268	0.257	0.285	0.278	0.294	0.277	0.271	6.62
53)	Methylcyclohexane	0.372	0.384	0.400	0.458	0.441	0.507	0.433	0.428	10.94
54)	Dibromomethane	0.141	0.176	0.176	0.190	0.188	0.196	0.183	0.179	10.01
55)C	1,2-Dichloropropa	0.180	0.271	0.277	0.291	0.286	0.301	0.279	0.269	15.03

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9989
Response Ratio = 0.00000 + 0.28965 *A + -0.00217 *A^2

56)	Bromodichlorometh	0.281	0.323	0.321	0.365	0.366	0.379	0.354	0.341	10.12
57)	Methyl methacryla	0.113	0.161	0.190	0.211	0.211	0.220	0.199	0.186	20.19

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9973
Response Ratio = 0.00000 + 0.20724 *A + -0.00060 *A^2

58)	1,4-Dioxane		0.002	0.002	0.003	0.003	0.003	0.003	0.002	12.74

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9985
Response Ratio = 0.00000 + 0.00235 *A + 0.00001 *A^2

59)	2-Chloroethyl vin	0.128	0.143	0.165	0.167	0.171	0.178	0.146	0.157	11.51
60)	cis-1,3-Dichlorop	0.287	0.385	0.354	0.411	0.412	0.438	0.408	0.385	13.12
61)	I Chlorobenzene-d5	----------	----------	ISTD	----------	----------	----------	----------	----------	----------
62)S	Toluene-d8	1.390	1.373	1.379	1.382	1.345	1.357	1.326	1.365	1.69
63)C	Toluene	1.360	1.509	1.433	1.554	1.493	1.571	1.425	1.478	5.11
64)	Isobutyl alcohol	0.013	0.013	0.014	0.015	0.014	0.015	0.013	0.014	6.92
65)	2-Nitropropane	0.072	0.093	0.096	0.112	0.112	0.118	0.103	0.101	15.36

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9959
Response Ratio = 0.00000 + 0.11190 *A + -0.00044 *A^2

66)	4-Methyl-2-pentan	0.424	0.339	0.378	0.427	0.375	0.399	0.345	0.384	9.08
67)	trans-1,3-Dichlor	0.337	0.448	0.453	0.512	0.512	0.541	0.503	0.472	14.48
68)	Tetrachloroethene	0.288	0.368	0.358	0.391	0.375	0.397	0.365	0.363	9.91
69)	Ethyl methacrylat	0.279	0.364	0.426	0.477	0.469	0.495	0.458	0.424	18.16

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9979
Response Ratio = 0.00000 + 0.45917 *A + 0.00655 *A^2

Initial Calibration Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICC1617
Lab FileID: 5E35982.D

70)	1,1,2-Trichloroet	0.244	0.297	0.283	0.304	0.301	0.305	0.276	0.287	7.67
71)	Dibromochlorometh	0.273	0.365	0.350	0.405	0.409	0.422	0.393	0.374	13.72
72)	1,3-Dichloropropa	0.495	0.580	0.548	0.620	0.593	0.613	0.559	0.573	7.56
73)	1,2-Dibromoethane	0.264	0.341	0.329	0.376	0.376	0.387	0.350	0.346	12.09
74)	3,3-Dimethyl-1-bu	0.026	0.028	0.035	0.037	0.038	0.040	0.035	0.034	15.39

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9952
Response Ratio = 0.00000 + 0.03777 *A + -0.00002 *A^2

75)	2-hexanone	0.276	0.224	0.261	0.297	0.270	0.277	0.242	0.264	9.22
76)	1-Chlorohexane	0.383	0.486	0.467	0.523	0.518	0.553	0.486	0.488	11.16
77)C	Ethylbenzene	1.642	1.739	1.594	1.729	1.709	1.793	1.635	1.692	4.14
78)P	Chlorobenzene	0.908	0.985	0.925	1.035	1.003	1.049	0.965	0.981	5.39
79)	1,1,1,2-Tetrachlo	0.279	0.335	0.316	0.364	0.358	0.372	0.339	0.338	9.48
80)	m,p-Xylene	1.079	1.273	1.184	1.317	1.303	1.367	1.261	1.255	7.61
81)	o-Xylene	0.993	1.197	1.152	1.283	1.251	1.307	1.198	1.197	8.76
82)	Styrene	0.670	0.906	0.869	1.003	0.986	1.040	0.963	0.919	13.51
83)P	Bromoform	0.138	0.212	0.207	0.241	0.248	0.265	0.244	0.222	19.04

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9973
Response Ratio = 0.00000 + 0.23635 *A + 0.00810 *A^2

84)	Isopropylbenzene	1.302	1.604	1.487	1.620	1.615	1.694	1.543	1.552	8.24
85) I	1,4-Dichlorobenzene-d	----------ISTD----------								
86)S	4-Bromofluorobenz	0.872	0.858	0.854	0.814	0.814	0.816	0.795	0.832	3.47
87)	cis-1,4-Dichloro-	0.035	0.181	0.217	0.244	0.255	0.255	0.219	0.201	38.75

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9956
Response Ratio = 0.00000 + 0.24720 *A + -0.00833 *A^2

88)	n-Propylbenzene	3.516	4.066	3.899	4.222	4.148	4.267	3.796	3.988	6.73
89)	Bromobenzene	0.652	0.805	0.762	0.809	0.819	0.825	0.759	0.776	7.79
90)P	1,1,2,2-Tetrachlo	0.918	0.938	0.946	1.039	1.033	1.038	0.910	0.975	6.09
91)	1,3,5-Trimethylbe	2.213	2.653	2.503	2.737	2.760	2.900	2.630	2.628	8.39
92)	2-Chlorotoluene	2.333	2.538	2.273	2.521	2.510	2.588	2.370	2.448	4.91
93)	trans-1,4-Dichlor	0.035	0.181	0.217	0.244	0.255	0.255	0.219	0.201	38.75

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9956
Response Ratio = 0.00000 + 0.24720 *A + -0.00833 *A^2

94)	1,2,3-Trichloropr	0.150	0.263	0.254	0.284	0.284	0.294	0.250	0.254	19.32

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9964
Response Ratio = 0.00000 + 0.29199 *A + -0.01507 *A^2

95)	Cyclohexanone	0.018	0.023	0.026	0.026	0.026	0.026	0.024	12.99	

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9989
Response Ratio = 0.00000 + 0.02412 *A + 0.00026 *A^2

96)	4-Chlorotoluene	2.020	2.254	2.088	2.253	2.225	2.312	2.105	2.179	4.96
97)	a-Methyl styrene								0.000	-1.00
98)	tert-Butylbenzene	1.282	1.483	1.365	1.473	1.463	1.515	1.361	1.420	5.98
99)	1,2,4-Trimethylbe	2.105	2.494	2.410	2.704	2.715	2.845	2.556	2.547	9.60
100)	Pentachloroethane	0.449	0.404	0.451	0.484	0.477	0.491	0.454	0.459	6.45
101)	sec-Butylbenzene	2.827	3.225	3.073	3.438	3.391	3.544	3.120	3.231	7.65
102)	4-Isopropyltoluen	2.379	2.788	2.683	3.018	3.012	3.158	2.788	2.832	9.17
103)	1,3-Dichlorobenze	1.257	1.420	1.429	1.518	1.514	1.579	1.426	1.449	7.15
104)	1,2,3-Trimethylbe	2.110	2.571	2.480	2.701	2.740	2.825	2.572	2.571	9.13
105)	1,4-Dichlorobenze	1.442	1.604	1.526	1.651	1.619	1.710	1.545	1.585	5.58
106)	n-Butylbenzene	1.156	1.491	1.422	1.584	1.646	1.724	1.490	1.502	12.25
107)	Benzyl Chloride	0.156	0.228	0.269	0.333	0.354	0.389		0.288	30.26

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9985
Response Ratio = 0.00000 + 0.27006 *A + 0.08940 *A^2

Initial Calibration Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICC1617
Lab FileID: 5E35982.D

```
108)  1,2-Dichlorobenze 1.278 1.359 1.327 1.442 1.462 1.496 1.345 1.387   5.78
109)  1,2-Dibromo-3-Chl 0.039 0.120 0.129 0.151 0.155 0.160 0.135 0.127  32.52
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9950
               Response Ratio = 0.00000 + 0.15234 *A + -0.00464 *A^2

110)  Hexachlorobutadie 0.242 0.326 0.300 0.310 0.307 0.311 0.256 0.293  10.64
111)  1,2,4-Trichlorobe 0.641 0.796 0.745 0.818 0.826 0.843 0.741 0.773   9.09
112)  Naphthalene       1.533 2.047 2.118 2.334 2.372 2.401 2.013 2.117  14.30
113)  1,2,3-Trichlorobe 0.545 0.639 0.653 0.701 0.703 0.711 0.608 0.651   9.30
 ---------------------------------------------------------------------------
 (#) = Out of Range

          appIX12-08-2022_.M        Thu Dec 08 16:36:18 2022
```

Initial Calibration Verification

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICV1617
Lab FileID: 5E35986.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\12-08-2022\5E35986.D Vial: 10
Acq On : 8 Dec 2022 3:25 pm Operator: courtnef
Sample : ICV1617-5 Inst : MSVOA20
Misc : MS52751,V5E1617,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...pIX12-08-2022_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Thu Dec 08 16:31:47 2022
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	101	0.00	8.95
2		Dichlorodifluoromethane	0.305	0.263	13.8	93	0.00	2.85
3	P	Chloromethane	0.293	0.275	6.1	98	0.00	3.22
4	C	Vinyl Chloride	0.311	0.307	1.3	102	0.00	3.37
5		1,3-Butadiene	0.199	0.223	-12.1	122	0.00	3.40
6		Bromomethane	0.163	0.175	-7.4	108	0.00	3.94
			Amount	Calc.	%Drift			
7		Chloroethane	40.000	47.808	-19.5	156	0.00	4.15
			AvgRF	CCRF	%Dev			
8		Trichlorofluoromethane	0.376	0.396	-5.3	108	0.00	4.38
9		Ethyl Ether	0.221	0.218	1.4	97	0.00	4.87
10		Ethanol	0.002	0.002	0.0	95	0.02	5.12
11		1,2-Dichlorotrifluoroetha	0.316	0.313	0.9	99	0.00	5.15
12	C	1,1-Dichloroethene	0.393	0.374	4.8	94	0.00	5.16
13		Freon 113	0.265	0.249	6.0	96	0.00	5.22
14		Carbon Disulfide	0.740	0.738	0.3	103	0.00	5.21
			Amount	Calc.	%Drift			
15		Iodomethane	40.000	38.031	4.9	93	0.00	5.37
			AvgRF	CCRF	%Dev			
16		Acrolein	0.048	0.048	0.0	93	0.00	5.63
17		Allyl chloride	0.271	0.275	-1.5	105	0.00	5.82
			Amount	Calc.	%Drift			
18		Methylene Chloride	40.000	34.555	13.6	90	0.00	5.96
19		Acetone	200.000	189.683	5.2	101	0.00	6.01
			AvgRF	CCRF	%Dev			
20		Methyl acetate	0.153	0.165	-7.8	101	0.00	6.17
21		trans-1,2-Dichloroethene	0.365	0.354	3.0	96	0.00	6.17
22		Hexane	0.219	0.229	-4.6	99	0.00	6.26
23		Methyl Tert Butyl Ether	0.728	0.746	-2.5	100	0.00	6.29
24		Acetonitrile	0.025	0.024	4.0	100	0.00	6.62
25		Di-isopropyl ether	0.699	0.728	-4.1	102	0.00	6.76
26		Chloroprene	0.328	0.358	-9.1	112	0.00	6.91
27	P	1,1-Dichloroethane	0.484	0.487	-0.6	99	0.00	6.94
28		Acrylonitrile	0.091	0.103	-13.2	109	0.00	6.99
29		ETBE	0.808	0.820	-1.5	99	0.00	7.20

Initial Calibration Verification

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICV1617
Lab FileID: 5E35986.D

			Amount	Calc.	%Drift			
30		Tert Butyl Alcohol	400.000	369.770	7.6	92	0.00	6.40
			AvgRF	CCRF	%Dev			
31		Vinyl acetate			NA			
32		cis-1,2-Dichloroethene	0.267	0.272	-1.9	100	0.00	7.58
33		2,2-Dichloropropane	0.387	0.356	8.0	91	0.00	7.70
34		Bromochloromethane	0.130	0.140	-7.7	102	0.00	7.81
35		Cyclohexane	0.429	0.442	-3.0	105	0.00	7.82
36	C	Chloroform	0.471	0.461	2.1	97	0.00	7.87
37		Ethyl acetate	0.235	0.267	-13.6	109	0.00	7.98
38		Tetrahydrofuran	0.073	0.072	1.4	103	0.00	8.07
39	S	Dibromofluoromethane	0.277	0.277	0.0	102	0.00	8.08
40		Carbon Tetrachloride	0.343	0.342	0.3	98	0.00	8.05
41		1,1,1-Trichloroethane	0.392	0.391	0.3	98	0.00	8.12
42		2-Butanone	0.118	0.114	3.4	99	0.00	8.20
43		1,1-Dichloropropene	0.353	0.341	3.4	96	0.00	8.26
44		tert-Butyl formate	0.103	0.084	18.4	78	0.00	8.35
			Amount	Calc.	%Drift			
45		Propionitrile	400.000	393.496	1.6	98	0.00	8.54
			AvgRF	CCRF	%Dev			
46		Methacrylonitrile	0.145	0.156	-7.6	106	0.00	8.55
47		Benzene	1.014	0.985	2.9	97	0.00	8.52
48		TAME	0.722	0.764	-5.8	101	0.00	8.60
49	S	1,2-Dichloroethane-d4	0.318	0.314	1.3	99	0.00	8.66
50		1,2-Dichloroethane	0.385	0.377	2.1	96	0.00	8.73
			Amount	Calc.	%Drift			
51		tert Amyl alcohol	400.000	411.326	-2.8	100	0.00	8.79
			AvgRF	CCRF	%Dev			
52		Trichloroethene	0.271	0.270	0.4	98	0.00	9.13
53		Methylcyclohexane	0.428	0.452	-5.6	104	0.00	9.13
54		Dibromomethane	0.179	0.177	1.1	95	0.00	9.58
			Amount	Calc.	%Drift			
55	C	1,2-Dichloropropane	40.000	37.212	7.0	95	0.00	9.67
			AvgRF	CCRF	%Dev			
56		Bromodichloromethane	0.341	0.362	-6.2	100	0.00	9.72
			Amount	Calc.	%Drift			
57		Methyl methacrylate	40.000	41.939	-4.8	104	0.00	9.84
58		1,4-Dioxane	800.000	891.935	-11.5	111	0.00	9.93
			AvgRF	CCRF	%Dev			
59		2-Chloroethyl vinyl ether	0.157	0.164	-4.5	97	0.00	10.26
60		cis-1,3-Dichloropropene	0.385	0.405	-5.2	100	0.00	10.35
61	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00	12.12
62	S	Toluene-d8	1.365	1.348	1.2	101	0.00	10.54
63	C	Toluene	1.478	1.470	0.5	99	0.00	10.60
64		Isobutyl alcohol	0.014	0.015	-7.1	103	0.00	8.68
			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	203.716	-1.9	101	0.00	10.83
			AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICV1617
Lab FileID: 5E35986.D

66		4-Methyl-2-pentanone	0.384	0.364	5.2	98	0.00	10.94
67		trans-1,3-Dichloropropene	0.472	0.539	-14.2	106	0.00	11.00
68		Tetrachloroethene	0.363	0.370	-1.9	100	0.00	11.00
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	38.346	4.1	96	0.00	11.10
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.287	0.294	-2.4	99	0.00	11.16
71		Dibromochloromethane	0.374	0.387	-3.5	96	0.00	11.36
72		1,3-Dichloropropane	0.573	0.550	4.0	94	0.00	11.45
73		1,2-Dibromoethane	0.346	0.362	-4.6	97	0.00	11.62
			Amount	Calc.	%Drift			
74		3,3-Dimethyl-1-butanol	2000.000	1822.705	8.9	90	0.00	11.71
			AvgRF	CCRF	%Dev			
75		2-hexanone	0.264	0.255	3.4	95	0.00	11.77
76		1-Chlorohexane	0.488	0.527	-8.0	103	0.00	12.06
77	C	Ethylbenzene	1.692	1.684	0.5	100	0.00	12.12
78	P	Chlorobenzene	0.981	0.990	-0.9	100	0.00	12.13
79		1,1,1,2-Tetrachloroethane	0.338	0.356	-5.3	101	0.00	12.18
80		m,p-Xylene	1.255	1.274	-1.5	99	0.00	12.26
81		o-Xylene	1.197	1.273	-6.3	103	0.00	12.71
82		Styrene	0.919	0.977	-6.3	100	0.00	12.76
			Amount	Calc.	%Drift			
83	P	Bromoform	40.000	41.573	-3.9	103	0.00	12.82
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.552	1.607	-3.5	101	0.00	13.01
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	14.47
86	S	4-Bromofluorobenzene	0.832	0.843	-1.3	104	0.00	13.33
			Amount	Calc.	%Drift			
87		cis-1,4-Dichloro-2-butene	40.000	43.242	-8.1	102	0.00	13.68
			AvgRF	CCRF	%Dev			
88		n-Propylbenzene	3.988	4.158	-4.3	101	0.00	13.43
89		Bromobenzene	0.776	0.775	0.1	95	0.00	13.46
90	P	1,1,2,2-Tetrachloroethane	0.975	1.008	-3.4	98	0.00	13.50
91		1,3,5-Trimethylbenzene	2.628	2.734	-4.0	99	0.00	13.61
92		2-Chlorotoluene	2.448	2.476	-1.1	99	0.00	13.62
			Amount	Calc.	%Drift			
93		trans-1,4-Dichloro-2-Bute	40.000	43.242	-8.1	102	0.00	13.68
94		1,2,3-Trichloropropane	40.000	37.558	6.1	93	0.00	13.66
95		Cyclohexanone	200.000	234.198	-17.1	114	0.00	13.74
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	2.179	2.244	-3.0	101	0.00	13.79
97		a-Methyl styrene		----------NA----------				
98		tert-Butylbenzene	1.420	1.461	-2.9	100	0.00	13.95
99		1,2,4-Trimethylbenzene	2.547	2.777	-9.0	103	0.00	14.02
100		Pentachloroethane	0.459	0.493	-7.4	104	0.00	14.01
101		sec-Butylbenzene	3.231	3.577	-10.7	106	0.00	14.13
102		4-Isopropyltoluene	2.832	3.099	-9.4	103	0.00	14.26
103		1,3-Dichlorobenzene	1.449	1.579	-9.0	105	0.00	14.40
104		1,2,3-Trimethylbenzene	2.571	2.956	-15.0	108	0.00	14.47

Initial Calibration Verification

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICV1617
Lab FileID: 5E35986.D

105	1,4-Dichlorobenzene	1.585	1.644	-3.7	102	0.00	14.49
106	n-Butylbenzene	1.502	1.565	-4.2	95	0.00	14.69
	----------	Amount	Calc.	%Drift	----------		
107	Benzyl Chloride	40.000	41.057	-2.6	100	0.00	14.71
	----------	AvgRF	CCRF	%Dev	----------		
108	1,2-Dichlorobenzene	1.387	1.474	-6.3	101	0.00	14.90
	----------	Amount	Calc.	%Drift	----------		
109	1,2-Dibromo-3-Chloropropa	40.000	39.855	0.4	96	0.00	15.63
	----------	AvgRF	CCRF	%Dev	----------		
110	Hexachlorobutadiene	0.293	0.292	0.3	96	0.00	16.17
111	1,2,4-Trichlorobenzene	0.773	0.835	-8.0	101	0.00	16.22
112	Naphthalene	2.117	2.360	-11.5	100	0.00	16.52
113	1,2,3-Trichlorobenzene	0.651	0.699	-7.4	100	0.00	16.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5E35982.D appIX12-08-2022_.M Thu Dec 08 16:35:37 2022

Initial Calibration Verification

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICV1617
Lab FileID: 5E35987.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\12-08-2022\5E35987.D Vial: 11
Acq On : 8 Dec 2022 4:06 pm Operator: courtnef
Sample : ICV1617-4 Inst : MSVOA20
Misc : MS52751,V5E1617,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...pIX12-08-2022_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Thu Dec 08 16:31:47 2022
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	111	0.00	8.95
2		Dichlorodifluoromethane		----------	NA	----------		
3	P	Chloromethane		----------	NA	----------		
4	C	Vinyl Chloride		----------	NA	----------		
5		1,3-Butadiene		----------	NA	----------		
6		Bromomethane		----------	NA	----------		
		----------	Amount	Calc.	%Drift	----------		
7		Chloroethane		----------	NA	----------		
		----------	AvgRF	CCRF	%Dev	----------		
8		Trichlorofluoromethane		----------	NA	----------		
9		Ethyl Ether		----------	NA	----------		
10		Ethanol		----------	NA	----------		
11		1,2-Dichlorotrifluoroetha		----------	NA	----------		
12	C	1,1-Dichloroethene		----------	NA	----------		
13		Freon 113		----------	NA	----------		
14		Carbon Disulfide		----------	NA	----------		
		----------	Amount	Calc.	%Drift	----------		
15		Iodomethane		----------	NA	----------		
		----------	AvgRF	CCRF	%Dev	----------		
16		Acrolein		----------	NA	----------		
17		Allyl chloride		----------	NA	----------		
		----------	Amount	Calc.	%Drift	----------		
18		Methylene Chloride		----------	NA	----------		
19		Acetone		----------	NA	----------		
		----------	AvgRF	CCRF	%Dev	----------		
20		Methyl acetate		----------	NA	----------		
21		trans-1,2-Dichloroethene		----------	NA	----------		
22		Hexane		----------	NA	----------		
23		Methyl Tert Butyl Ether		----------	NA	----------		
24		Acetonitrile		----------	NA	----------		
25		Di-isopropyl ether		----------	NA	----------		
26		Chloroprene		----------	NA	----------		
27	P	1,1-Dichloroethane		----------	NA	----------		
28		Acrylonitrile		----------	NA	----------		
29		ETBE		----------	NA	----------		

Initial Calibration Verification

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICV1617
Lab FileID: 5E35987.D

			Amount	Calc.	%Drift			
30		Tert Butyl Alcohol		----------NA----------				
			AvgRF	CCRF	%Dev			
31		Vinyl acetate	0.476	0.510	-7.1	121	0.00	7.21
32		cis-1,2-Dichloroethene		----------NA----------				
33		2,2-Dichloropropane		----------NA----------				
34		Bromochloromethane		----------NA----------				
35		Cyclohexane		----------NA----------				
36	C	Chloroform		----------NA----------				
37		Ethyl acetate		----------NA----------				
38		Tetrahydrofuran		----------NA----------				
39	S	Dibromofluoromethane	0.277	0.280	-1.1	114	0.00	8.08
40		Carbon Tetrachloride		----------NA----------				
41		1,1,1-Trichloroethane		----------NA----------				
42		2-Butanone		----------NA----------				
43		1,1-Dichloropropene		----------NA----------				
44		tert-Butyl formate		----------NA----------				
			Amount	Calc.	%Drift			
45		Propionitrile		----------NA----------				
			AvgRF	CCRF	%Dev			
46		Methacrylonitrile		----------NA----------				
47		Benzene		----------NA----------				
48		TAME		----------NA----------				
49	S	1,2-Dichloroethane-d4	0.318	0.328	-3.1	115	0.00	8.66
50		1,2-Dichloroethane		----------NA----------				
			Amount	Calc.	%Drift			
51		tert Amyl alcohol		----------NA----------				
			AvgRF	CCRF	%Dev			
52		Trichloroethene		----------NA----------				
53		Methylcyclohexane		----------NA----------				
54		Dibromomethane		----------NA----------				
			Amount	Calc.	%Drift			
55	C	1,2-Dichloropropane		----------NA----------				
			AvgRF	CCRF	%Dev			
56		Bromodichloromethane		----------NA----------				
			Amount	Calc.	%Drift			
57		Methyl methacrylate		----------NA----------				
58		1,4-Dioxane		----------NA----------				
			AvgRF	CCRF	%Dev			
59		2-Chloroethyl vinyl ether		----------NA----------				
60		cis-1,3-Dichloropropene		----------NA----------				
61	I	Chlorobenzene-d5	1.000	1.000	0.0	110	0.00	12.12
62	S	Toluene-d8	1.365	1.392	-2.0	111	0.00	10.54
63	C	Toluene		----------NA----------				
64		Isobutyl alcohol		----------NA----------				
			Amount	Calc.	%Drift			
65		2-Nitropropane		----------NA----------				
			AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICV1617
Lab FileID: 5E35987.D

66		4-Methyl-2-pentanone			NA				
67		trans-1,3-Dichloropropene			NA				
68		Tetrachloroethene			NA				
			Amount	Calc.	%Drift				
69		Ethyl methacrylate			NA				
			AvgRF	CCRF	%Dev				
70		1,1,2-Trichloroethane			NA				
71		Dibromochloromethane			NA				
72		1,3-Dichloropropane			NA				
73		1,2-Dibromoethane			NA				
			Amount	Calc.	%Drift				
74		3,3-Dimethyl-1-butanol			NA				
			AvgRF	CCRF	%Dev				
75		2-hexanone			NA				
76		1-Chlorohexane			NA				
77	C	Ethylbenzene			NA				
78	P	Chlorobenzene			NA				
79		1,1,1,2-Tetrachloroethane			NA				
80		m,p-Xylene			NA				
81		o-Xylene			NA				
82		Styrene			NA				
			Amount	Calc.	%Drift				
83	P	Bromoform			NA				
			AvgRF	CCRF	%Dev				
84		Isopropylbenzene			NA				
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00	14.47	
86	S	4-Bromofluorobenzene	0.832	0.853	-2.5	112	0.00	13.33	
			Amount	Calc.	%Drift				
87		cis-1,4-Dichloro-2-butene			NA				
			AvgRF	CCRF	%Dev				
88		n-Propylbenzene			NA				
89		Bromobenzene			NA				
90	P	1,1,2,2-Tetrachloroethane			NA				
91		1,3,5-Trimethylbenzene			NA				
92		2-Chlorotoluene			NA				
			Amount	Calc.	%Drift				
93		trans-1,4-Dichloro-2-Bute			NA				
94		1,2,3-Trichloropropane			NA				
95		Cyclohexanone			NA				
			AvgRF	CCRF	%Dev				
96		4-Chlorotoluene			NA				
97		a-Methyl styrene			NA				
98		tert-Butylbenzene			NA				
99		1,2,4-Trimethylbenzene			NA				
100		Pentachloroethane			NA				
101		sec-Butylbenzene			NA				
102		4-Isopropyltoluene			NA				
103		1,3-Dichlorobenzene			NA				
104		1,2,3-Trimethylbenzene			NA				

Initial Calibration Verification

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICV1617
Lab FileID: 5E35987.D

```
105     1,4-Dichlorobenzene                 ----------NA----------
106     n-Butylbenzene                      ----------NA----------

            ----------------------- Amount  Calc.    %Drift   -------------
107     Benzyl Chloride                     ----------NA----------

            ----------------------- AvgRF   CCRF      %Dev   --------------
108     1,2-Dichlorobenzene                 ----------NA----------

            ----------------------- Amount  Calc.    %Drift   -------------
109     1,2-Dibromo-3-Chloropropa           ----------NA----------

            ----------------------- AvgRF   CCRF      %Dev   --------------
110     Hexachlorobutadiene                 ----------NA----------
111     1,2,4-Trichlorobenzene              ----------NA----------
112     Naphthalene                         ----------NA----------
113     1,2,3-Trichlorobenzene              ----------NA----------
 ------------------------------------------------------------------------------
 ------------------------------------------------------------------------------

    (#) = Out of Range               SPCC's out = 4  CCC's out = 6
     5E35981.D  appIX12-08-2022_.M       Thu Dec 08 16:36:09 2022
```

Continuing Calibration Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1625-CC1617
Lab FileID: 5E36146.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\12-16-2022\5E36146.D Vial: 2
Acq On : 16 Dec 2022 11:05 am Operator: courtnef
Sample : CC1617-5 Inst : MSVOA20
Misc : MS52751,V5E1625,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...pIX12-08-2022_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Thu Dec 08 16:31:47 2022
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	91	0.00	8.95
2		Dichlorodifluoromethane	0.305	0.330	-8.2	105	0.00	2.85
3	P	Chloromethane	0.293	0.309	-5.5	99	0.00	3.21
4	C	Vinyl Chloride	0.311	0.350	-12.5	105	0.00	3.37
5		1,3-Butadiene	0.199	0.217	-9.0	107	0.00	3.40
6		Bromomethane	0.163	0.151	7.4	84	0.00	3.94
			Amount	Calc.	%Drift			
7		Chloroethane	40.000	38.239	4.4	100	0.00	4.15
			AvgRF	CCRF	%Dev			
8		Trichlorofluoromethane	0.376	0.443	-17.8	109	0.00	4.39
9		Ethyl Ether	0.221	0.253	-14.5	101	0.00	4.87
10		Ethanol	0.002	0.002	0.0	134	0.00	5.10
11		1,2-Dichlorotrifluoroetha	0.316	0.376	-19.0	108	0.00	5.15
12	C	1,1-Dichloroethene	0.393	0.468	-19.1	106	0.00	5.16
13		Freon 113	0.265	0.307	-15.8	107	0.00	5.22
14		Carbon Disulfide	0.740	0.848	-14.6	107	0.00	5.21
			Amount	Calc.	%Drift			
15		Iodomethane	40.000	18.528	53.7#	40	0.00	5.37
			AvgRF	CCRF	%Dev			
16		Acrolein	0.048	0.060	-25.0#	105	0.00	5.63
17		Allyl chloride	0.271	0.295	-8.9	101	0.00	5.82
			Amount	Calc.	%Drift			
18		Methylene Chloride	40.000	43.852	-9.6	102	0.00	5.96
19		Acetone	200.000	190.997	4.5	92	0.00	6.02
			AvgRF	CCRF	%Dev			
20		Methyl acetate	0.153	0.177	-15.7	97	0.00	6.17
21		trans-1,2-Dichloroethene	0.365	0.434	-18.9	106	0.00	6.17
22		Hexane	0.219	0.235	-7.3	91	0.00	6.27
23		Methyl Tert Butyl Ether	0.728	0.830	-14.0	100	0.00	6.29
24		Acetonitrile	0.025	0.025	0.0	95	0.00	6.62
25		Di-isopropyl ether	0.699	0.802	-14.7	101	0.00	6.75
26		Chloroprene	0.328	0.356	-8.5	101	0.00	6.91
27	P	1,1-Dichloroethane	0.484	0.561	-15.9	103	0.00	6.94
28		Acrylonitrile	0.091	0.101	-11.0	96	0.00	6.99
29		ETBE	0.808	0.950	-17.6	103	0.00	7.19

Continuing Calibration Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1625-CC1617
Lab FileID: 5E36146.D

			Amount	Calc.	%Drift			
30		Tert Butyl Alcohol	400.000	364.478	8.9	82	0.00	6.39
			AvgRF	CCRF	%Dev			
31		Vinyl acetate	0.476	0.546	-14.7	100	0.00	7.21
32		cis-1,2-Dichloroethene	0.267	0.311	-16.5	103	0.00	7.58
33		2,2-Dichloropropane	0.387	0.451	-16.5	104	0.00	7.70
34		Bromochloromethane	0.130	0.148	-13.8	97	0.00	7.81
35		Cyclohexane	0.429	0.506	-17.9	108	0.00	7.82
36	C	Chloroform	0.471	0.541	-14.9	103	0.00	7.87
37		Ethyl acetate	0.235	0.250	-6.4	92	0.00	7.98
38		Tetrahydrofuran	0.073	0.071	2.7	92	0.00	8.07
39	S	Dibromofluoromethane	0.277	0.277	0.0	92	0.00	8.08
40		Carbon Tetrachloride	0.343	0.422	-23.0#	109	0.00	8.05
41		1,1,1-Trichloroethane	0.392	0.464	-18.4	105	0.00	8.12
42		2-Butanone	0.118	0.116	1.7	90	0.00	8.20
43		1,1-Dichloropropene	0.353	0.418	-18.4	106	0.00	8.26
44		tert-Butyl formate	0.103	0.134	-30.1#	112	0.00	8.35
			Amount	Calc.	%Drift			
45		Propionitrile	400.000	404.969	-1.2	91	0.00	8.54
			AvgRF	CCRF	%Dev			
46		Methacrylonitrile	0.145	0.166	-14.5	102	0.00	8.55
47		Benzene	1.014	1.141	-12.5	101	0.00	8.52
48		TAME	0.722	0.834	-15.5	100	0.00	8.60
49	S	1,2-Dichloroethane-d4	0.318	0.319	-0.3	91	0.00	8.66
50		1,2-Dichloroethane	0.385	0.452	-17.4	104	0.00	8.74
			Amount	Calc.	%Drift			
51		tert Amyl alcohol	400.000	433.209	-8.3	95	0.00	8.79
			AvgRF	CCRF	%Dev			
52		Trichloroethene	0.271	0.320	-18.1	105	0.00	9.13
53		Methylcyclohexane	0.428	0.509	-18.9	106	0.00	9.13
54		Dibromomethane	0.179	0.211	-17.9	102	0.00	9.58
			Amount	Calc.	%Drift			
55	C	1,2-Dichloropropane	40.000	45.734	-14.3	105	0.00	9.67
			AvgRF	CCRF	%Dev			
56		Bromodichloromethane	0.341	0.403	-18.2	101	0.00	9.72
			Amount	Calc.	%Drift			
57		Methyl methacrylate	40.000	40.059	-0.1	90	0.00	9.84
58		1,4-Dioxane	800.000	852.071	-6.5	95	0.00	9.91
			AvgRF	CCRF	%Dev			
59		2-Chloroethyl vinyl ether	0.157	0.141	10.2	75	0.00	10.26
60		cis-1,3-Dichloropropene	0.385	0.463	-20.3#	103	0.00	10.35
61	I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00	12.11
62	S	Toluene-d8	1.365	1.314	3.7	93	0.00	10.54
63	C	Toluene	1.478	1.617	-9.4	103	0.00	10.60
64		Isobutyl alcohol	0.014	0.013	7.1	88	0.00	8.67
			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	218.377	-9.2	102	0.00	10.83
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FC1292 **Sample:** V5E1625-CC1617
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 5E36146.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

66		4-Methyl-2-pentanone	0.384	0.362	5.7	92	0.00	10.94
67		trans-1,3-Dichloropropene	0.472	0.541	-14.6	101	0.00	11.00
68		Tetrachloroethene	0.363	0.408	-12.4	104	0.00	11.00
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	37.740	5.6	89	0.00	11.10
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.287	0.316	-10.1	100	0.00	11.16
71		Dibromochloromethane	0.374	0.433	-15.8	101	0.00	11.36
72		1,3-Dichloropropane	0.573	0.629	-9.8	101	0.00	11.45
73		1,2-Dibromoethane	0.346	0.398	-15.0	101	0.00	11.62
			Amount	Calc.	%Drift			
74		3,3-Dimethyl-1-butanol	2000.000	2051.010	-2.6	95	0.00	11.71
			AvgRF	CCRF	%Dev			
75		2-hexanone	0.264	0.253	4.2	89	0.00	11.76
76		1-Chlorohexane	0.488	0.561	-15.0	103	0.00	12.06
77	C	Ethylbenzene	1.692	1.843	-8.9	103	0.00	12.12
78	P	Chlorobenzene	0.981	1.085	-10.6	103	0.00	12.13
79		1,1,1,2-Tetrachloroethane	0.338	0.397	-17.5	106	0.00	12.18
80		m,p-Xylene	1.255	1.396	-11.2	102	0.00	12.26
81		o-Xylene	1.197	1.336	-11.6	102	0.00	12.71
82		Styrene	0.919	1.067	-16.1	103	0.00	12.76
			Amount	Calc.	%Drift			
83	P	Bromoform	40.000	43.028	-7.6	101	0.00	12.82
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.552	1.735	-11.8	103	0.00	13.01
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00	14.47
86	S	4-Bromofluorobenzene	0.832	0.803	3.5	98	0.00	13.33
			Amount	Calc.	%Drift			
87		cis-1,4-Dichloro-2-butene	40.000	38.056	4.9	89	0.00	13.68
			AvgRF	CCRF	%Dev			
88		n-Propylbenzene	3.988	4.299	-7.8	103	0.00	13.43
89		Bromobenzene	0.776	0.856	-10.3	103	0.00	13.46
90	P	1,1,2,2-Tetrachloroethane	0.975	1.033	-5.9	99	0.00	13.50
91		1,3,5-Trimethylbenzene	2.628	2.845	-8.3	102	0.00	13.61
92		2-Chlorotoluene	2.448	2.576	-5.2	102	0.00	13.62
			Amount	Calc.	%Drift			
93		trans-1,4-Dichloro-2-Bute	40.000	38.056	4.9	89	0.00	13.68
94		1,2,3-Trichloropropane	40.000	42.325	-5.8	103	0.00	13.66
95		Cyclohexanone	200.000	202.818	-1.4	97	0.00	13.74
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	2.179	2.303	-5.7	102	0.00	13.79
97		a-Methyl styrene		----------NA----------				
98		tert-Butylbenzene	1.420	1.511	-6.4	102	0.00	13.95
99		1,2,4-Trimethylbenzene	2.547	2.828	-11.0	103	0.00	14.02
100		Pentachloroethane	0.459	0.465	-1.3	97	0.00	14.01
101		sec-Butylbenzene	3.231	3.566	-10.4	104	0.00	14.13
102		4-Isopropyltoluene	2.832	3.175	-12.1	104	0.00	14.26
103		1,3-Dichlorobenzene	1.449	1.603	-10.6	105	0.00	14.40
104		1,2,3-Trimethylbenzene	2.571	2.818	-9.6	102	0.00	14.47

Continuing Calibration Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1625-CC1617
Lab FileID: 5E36146.D

105	1,4-Dichlorobenzene	1.585	1.720	-8.5	105	0.00	14.49
106	n-Butylbenzene	1.502	1.716	-14.2	103	0.00	14.69
		Amount	Calc.	%Drift			
107	Benzyl Chloride	40.000	40.848	-2.1	98	0.00	14.71
		AvgRF	CCRF	%Dev			
108	1,2-Dichlorobenzene	1.387	1.527	-10.1	103	0.00	14.90
		Amount	Calc.	%Drift			
109	1,2-Dibromo-3-Chloropropa	40.000	41.718	-4.3	99	0.00	15.63
		AvgRF	CCRF	%Dev			
110	Hexachlorobutadiene	0.293	0.327	-11.6	106	0.00	16.17
111	1,2,4-Trichlorobenzene	0.773	0.860	-11.3	103	0.00	16.22
112	Naphthalene	2.117	2.327	-9.9	97	0.00	16.52
113	1,2,3-Trichlorobenzene	0.651	0.713	-9.5	101	0.00	16.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5E35982.D appIX12-08-2022_.M Fri Dec 16 11:26:03 2022

Continuing Calibration Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1625-ECC1617
Lab FileID: 5E36173.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ce...022\V5E1625\5E36173.d Vial: 29
Acq On : 16 Dec 2022 9:28 pm Operator: courtnef
Sample : ECC1617-5 Inst : MSVOA20
Misc : MS53029,V5E1625,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...pIX12-08-2022_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Thu Dec 08 16:31:47 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Fluorobenzene	1.000	1.000	0.0	87	0.00	8.95
2		Dichlorodifluoromethane	0.305	0.308	-1.0	93	0.00	2.85
3	P	Chloromethane	0.293	0.298	-1.7	91	0.00	3.22
4	C	Vinyl Chloride	0.311	0.332	-6.8	95	0.00	3.37
5		1,3-Butadiene	0.199	0.224	-12.6	105	0.00	3.40
6		Bromomethane	0.163	0.113	30.7	60	0.00	3.94
			True	Calc.	% Drift			
7		Chloroethane	40.000	37.650	5.9	92	0.00	4.15
			AvgRF	CCRF	% Dev			
8		Trichlorofluoromethane	0.376	0.415	-10.4	97	0.00	4.38
9		Ethyl Ether	0.221	0.252	-14.0	96	0.00	4.87
10		Ethanol	0.002	0.002	0.0	87	0.00	5.10
11		1,2-Dichlorotrifluoroetha	0.316	0.362	-14.6	98	0.00	5.15
12	C	1,1-Dichloroethene	0.393	0.450	-14.5	97	0.00	5.16
13		Freon 113	0.265	0.293	-10.6	97	0.00	5.22
14		Carbon Disulfide	0.740	0.774	-4.6	93	0.00	5.21
			True	Calc.	% Drift			
15		Iodomethane	40.000	17.802	55.5#	36	0.00	5.37
			AvgRF	CCRF	% Dev			
16		Acrolein	0.048	0.051	-6.2	86	0.00	5.63
17		Allyl chloride	0.271	0.267	1.5	87	0.00	5.82
			True	Calc.	% Drift			
18		Methylene Chloride	40.000	41.857	-4.6	93	0.00	5.96
19		Acetone	200.000	186.452	6.8	85	0.00	6.02
			AvgRF	CCRF	% Dev			
20		Methyl acetate	0.153	0.183	-19.6	96	0.00	6.17
21		trans-1,2-Dichloroethene	0.365	0.408	-11.8	95	0.00	6.17
22		Hexane	0.219	0.204	6.8	75	0.00	6.26
23		Methyl Tert Butyl Ether	0.728	0.816	-12.1	93	0.00	6.29
24		Acetonitrile	0.025	0.026	-4.0	92	0.00	6.62
25		Di-isopropyl ether	0.699	0.773	-10.6	93	0.00	6.75
26		Chloroprene	0.328	0.330	-0.6	89	0.00	6.91
27	P	1,1-Dichloroethane	0.484	0.543	-12.2	95	0.00	6.94
28		Acrylonitrile	0.091	0.101	-11.0	92	0.00	6.99
29		ETBE	0.808	0.903	-11.8	93	0.00	7.19

Continuing Calibration Summary

Job Number: FC1292 **Sample:** V5E1625-ECC1617
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 5E36173.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

			True	Calc.	% Drift			
30		Tert Butyl Alcohol	400.000	378.529	5.4	81	0.00	6.39

			AvgRF	CCRF	% Dev			
31		Vinyl acetate	0.476	0.524	-10.1	91	0.00	7.21
32		cis-1,2-Dichloroethene	0.267	0.303	-13.5	95	0.00	7.58
33		2,2-Dichloropropane	0.387	0.368	4.9	80	0.00	7.71
34		Bromochloromethane	0.130	0.145	-11.5	90	0.00	7.81
35		Cyclohexane	0.429	0.487	-13.5	99	0.00	7.82
36	C	Chloroform	0.471	0.520	-10.4	94	0.00	7.87
37		Ethyl acetate	0.235	0.265	-12.8	92	0.00	7.98
38		Tetrahydrofuran	0.073	0.079	-8.2	97	0.00	8.07
39	S	Dibromofluoromethane	0.277	0.283	-2.2	89	0.00	8.08
40		Carbon Tetrachloride	0.343	0.389	-13.4	95	0.00	8.05
41		1,1,1-Trichloroethane	0.392	0.453	-15.6	97	0.00	8.12
42		2-Butanone	0.118	0.118	0.0	87	0.00	8.20
43		1,1-Dichloropropene	0.353	0.387	-9.6	93	0.00	8.25
44		tert-Butyl formate	0.103	0.116	-12.6	92	0.00	8.35

			True	Calc.	% Drift			
45		Propionitrile	400.000	420.357	-5.1	89	0.00	8.53

			AvgRF	CCRF	% Dev			
46		Methacrylonitrile	0.145	0.167	-15.2	97	0.00	8.55
47		Benzene	1.014	1.100	-8.5	93	0.00	8.52
48		TAME	0.722	0.822	-13.9	93	0.00	8.60
49	S	1,2-Dichloroethane-d4	0.318	0.317	0.3	86	0.00	8.66
50		1,2-Dichloroethane	0.385	0.428	-11.2	93	0.00	8.74

			True	Calc.	% Drift			
51		tert Amyl alcohol	400.000	454.531	-13.6	95	0.00	8.79

			AvgRF	CCRF	% Dev			
52		Trichloroethene	0.271	0.305	-12.5	95	0.00	9.13
53		Methylcyclohexane	0.428	0.489	-14.3	96	0.00	9.13
54		Dibromomethane	0.179	0.205	-14.5	95	0.00	9.58

			True	Calc.	% Drift			
55	C	1,2-Dichloropropane	40.000	44.488	-11.2	97	0.00	9.67

			AvgRF	CCRF	% Dev			
56		Bromodichloromethane	0.341	0.387	-13.5	92	0.00	9.72

			True	Calc.	% Drift			
57		Methyl methacrylate	40.000	40.254	-0.6	86	0.00	9.84
58		1,4-Dioxane	800.000	872.069	-9.0	93	0.00	9.91

			AvgRF	CCRF	% Dev			
59		2-Chloroethyl vinyl ether	0.157	0.129	17.8	66	0.00	10.26
60		cis-1,3-Dichloropropene	0.385	0.424	-10.1	89	0.00	10.35
61	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00	12.12
62	S	Toluene-d8	1.365	1.322	3.2	89	0.00	10.54
63	C	Toluene	1.478	1.552	-5.0	94	0.00	10.60
64		Isobutyl alcohol	0.014	0.014	0.0	91	0.00	8.67

			True	Calc.	% Drift			
65		2-Nitropropane	200.000	216.656	-8.3	96	0.00	10.83

			AvgRF	CCRF	% Dev			

Continuing Calibration Summary

Job Number: FC1292 **Sample:** V5E1625-ECC1617
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 5E36173.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

66		4-Methyl-2-pentanone	0.384	0.372	3.1	90	0.00	10.94
67		trans-1,3-Dichloropropene	0.472	0.508	-7.6	90	0.00	11.00
68		Tetrachloroethene	0.363	0.432	-19.0	104	0.00	11.00
			True	Calc.	% Drift			
69		Ethyl methacrylate	40.000	37.836	5.4	85	0.00	11.10
			AvgRF	CCRF	% Dev			
70		1,1,2-Trichloroethane	0.287	0.308	-7.3	93	0.00	11.16
71		Dibromochloromethane	0.374	0.408	-9.1	90	0.00	11.36
72		1,3-Dichloropropane	0.573	0.613	-7.0	94	0.00	11.45
73		1,2-Dibromoethane	0.346	0.385	-11.3	93	0.00	11.63
			True	Calc.	% Drift			
74		3,3-Dimethyl-1-butanol	2000.000	2030.577	-1.5	90	0.00	11.71
			AvgRF	CCRF	% Dev			
75		2-hexanone	0.264	0.259	1.9	87	0.00	11.76
76		1-Chlorohexane	0.488	0.537	-10.0	94	0.00	12.06
77	C	Ethylbenzene	1.692	1.772	-4.7	94	0.00	12.12
78	P	Chlorobenzene	0.981	1.039	-5.9	94	0.00	12.13
79		1,1,1,2-Tetrachloroethane	0.338	0.374	-10.7	94	0.00	12.18
80		m,p-Xylene	1.255	1.356	-8.0	94	0.00	12.26
81		o-Xylene	1.197	1.293	-8.0	94	0.00	12.71
82		Styrene	0.919	1.019	-10.9	93	0.00	12.76
			True	Calc.	% Drift			
83	P	Bromoform	40.000	39.914	0.2	88	0.00	12.82
			AvgRF	CCRF	% Dev			
84		Isopropylbenzene	1.552	1.701	-9.6	95	0.00	13.01
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00	14.47
86	S	4-Bromofluorobenzene	0.832	0.798	4.1	93	0.00	13.33
			True	Calc.	% Drift			
87		cis-1,4-Dichloro-2-butene	40.000	33.658	15.9	75	0.00	13.68
			AvgRF	CCRF	% Dev			
88		n-Propylbenzene	3.988	4.121	-3.3	94	0.00	13.43
89		Bromobenzene	0.776	0.815	-5.0	94	0.00	13.46
90	P	1,1,2,2-Tetrachloroethane	0.975	1.039	-6.6	95	0.00	13.49
91		1,3,5-Trimethylbenzene	2.628	2.775	-5.6	95	0.00	13.61
92		2-Chlorotoluene	2.448	2.489	-1.7	94	0.00	13.62
			True	Calc.	% Drift			
93		trans-1,4-Dichloro-2-Bute	40.000	33.658	15.9	75	0.00	13.68
94		1,2,3-Trichloropropane	40.000	40.971	-2.4	95	0.00	13.66
95		Cyclohexanone	200.000	216.776	-8.4	100	0.00	13.74
			AvgRF	CCRF	% Dev			
96		4-Chlorotoluene	2.179	2.239	-2.8	95	0.00	13.79
97		a-Methyl styrene	0.000	0.002	0.0	0#	0.00	10.96
98		tert-Butylbenzene	1.420	1.487	-4.7	96	0.00	13.95
99		1,2,4-Trimethylbenzene	2.547	2.707	-6.3	94	0.00	14.02
100		Pentachloroethane	0.459	0.390	15.0	77	0.00	14.00
101		sec-Butylbenzene	3.231	3.498	-8.3	98	0.00	14.13
102		4-Isopropyltoluene	2.832	3.051	-7.7	96	0.00	14.26
103		1,3-Dichlorobenzene	1.449	1.562	-7.8	98	0.00	14.40
104		1,2,3-Trimethylbenzene	2.571	2.752	-7.0	95	0.00	14.47

Continuing Calibration Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1625-ECC1617
Lab FileID: 5E36173.D

105	1,4-Dichlorobenzene	1.585	1.670	-5.4	98	0.00	14.49
106	n-Butylbenzene	1.502	1.624	-8.1	93	0.00	14.68
	----------	True	Calc.	% Drift	----------		
107	Benzyl Chloride	40.000	30.241	24.4	65	0.00	14.71
	----------	AvgRF	CCRF	% Dev	----------		
108	1,2-Dichlorobenzene	1.387	1.503	-8.4	97	0.00	14.90
	----------	True	Calc.	% Drift	----------		
109	1,2-Dibromo-3-Chloropropa	40.000	40.221	-0.6	91	0.00	15.63
	----------	AvgRF	CCRF	% Dev	----------		
110	Hexachlorobutadiene	0.293	0.325	-10.9	100	0.00	16.17
111	1,2,4-Trichlorobenzene	0.773	0.874	-13.1	100	0.00	16.22
112	Naphthalene	2.117	2.373	-12.1	95	0.00	16.52
113	1,2,3-Trichlorobenzene	0.651	0.732	-12.4	99	0.00	16.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5E35982.D appIX12-08-2022_.M Sun Dec 18 23:34:34 2022

Initial Calibration Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VO2866-ICC2866
Lab FileID: O72894.D

Response Factor Report MSVOA12

Method : C:\msdchem\2\met...\VO_12-08-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Dec 08 14:27:47 2022
Response via : Initial Calibration

Calibration Files
1 =O72890.D 2 =O72891.D 3 =O72892.D 4 =O72893.D
5 =O72894.D 6 =O72895.D 7 =O72896.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.282	0.332	0.323	0.373	0.399	0.365	0.380	0.351	11.46
3)P Chloromethane	0.250	0.291	0.275	0.327	0.354	0.317	0.339	0.308	12.07
4) 1,3-butadiene	0.329	0.357	0.319	0.272	0.294	0.296	0.294	0.309	9.14
5)C Vinyl Chloride	0.240	0.298	0.292	0.333	0.361	0.321	0.330	0.311	12.48
6) Bromomethane	0.066	0.102	0.109	0.140	0.153	0.149	0.166	0.126	27.97
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9977									
Response Ratio = 0.00000 + 0.12316 *A + 0.02148 *A^2									
7) Chloroethane	0.114	0.169	0.167	0.194	0.206	0.179	0.183	0.173	16.95
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9973									
Response Ratio = 0.00000 + 0.19140 *A + -0.00441 *A^2									
8) Trichlorofluorome	0.319	0.426	0.408	0.476	0.525	0.488	0.500	0.449	15.70
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9980									
Response Ratio = 0.00000 + 0.46750 *A + 0.01833 *A^2									
9) Ethyl Ether	0.235	0.236	0.222	0.227	0.220	0.233	0.240	0.231	3.23
10) Ethanol			0.001	0.001	0.001	0.001	0.001	0.001	10.56
11) 1,2-Dichlorotrifl	0.392	0.359	0.337	0.341	0.330	0.351	0.356	0.352	5.79
12)C 1,1-Dichloroethen	0.466	0.433	0.410	0.421	0.410	0.441	0.451	0.433	4.90
13) Freon 113	0.337	0.299	0.284	0.284	0.269	0.294	0.294	0.295	7.18
14) Carbon Disulfide	0.994	0.866	0.798	0.796	0.766	0.807	0.821	0.835	9.15
15) Iodomethane		0.025	0.035	0.078	0.128	0.183	0.225	0.112	72.18
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9968									
Response Ratio = 0.00000 + 0.03946 *A + 0.09562 *A^2									
16) Acrolein	0.031	0.048	0.055	0.045	0.049	0.046	0.047	0.046	15.66
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9980									
Response Ratio = 0.00000 + 0.04847 *A + -0.00016 *A^2									
17) Allyl chloride	0.325	0.389	0.388	0.351	0.394	0.416	0.440	0.386	9.91
18) Methylene Chlorid	0.950	0.508	0.412	0.395	0.377	0.393	0.400	0.491	42.19
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9976									
Response Ratio = 0.00000 + 0.41242 *A + -0.01007 *A^2									
19) Acetone	0.106	0.088	0.070	0.066	0.069	0.067	0.067	0.076	19.74
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9987									
Response Ratio = 0.00000 + 0.07138 *A + -0.00047 *A^2									
20) Methyl acetate	0.186	0.185	0.165	0.179	0.178	0.192	0.196	0.183	5.55
21) trans-1,2-Dichlor	0.443	0.422	0.402	0.409	0.397	0.423	0.435	0.419	4.05
22) Hexane	0.230	0.195	0.187	0.182	0.191	0.198	0.194	0.197	8.03
23) Methyl Tert Butyl	0.824	0.789	0.723	0.745	0.728	0.777	0.803	0.770	5.02
24) Tert Butyl Alcoho	0.010	0.018	0.014	0.016	0.016	0.018	0.016	0.015	17.38
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9957									

Initial Calibration Summary

Job Number: FC1292 **Sample:** VO2866-ICC2866
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** O72894.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

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                Response Ratio = 0.00000 + 0.01610 *A + 0.00002 *A^2

 25)  Acetonitrile      0.030 0.031 0.029 0.026 0.028 0.028 0.027 0.028   6.22
 26)  Di-isopropyl ethe 1.003 0.943 0.894 0.918 0.885 0.950 0.976 0.938   4.56
 27)  Chloroprene       0.272 0.347 0.343 0.321 0.359 0.381 0.401 0.346  12.12
 28)P 1,1-Dichloroethan 0.564 0.514 0.481 0.497 0.476 0.507 0.516 0.508   5.75
 29)  Acrylonitrile     0.099 0.079 0.077 0.075 0.077 0.075 0.077 0.080  10.76
 30)  ETBE              0.850 0.792 0.768 0.818 0.814 0.889 0.922 0.836   6.49
 31)  Vinyl acetate     0.497 0.434 0.469 0.520 0.580 0.596 0.634 0.533  13.63
 32)  cis-1,2-Dichloroe 0.336 0.315 0.295 0.296 0.282 0.299 0.304 0.304   5.66
 33)  2,2-Dichloropropa 0.327 0.327 0.323 0.350 0.361 0.399 0.419 0.358  10.57
 34)  Bromochloromethan 0.171 0.158 0.159 0.162 0.154 0.163 0.164 0.162   3.32
 35)  Cyclohexane       0.455 0.450 0.412 0.421 0.419 0.446 0.453 0.437   4.22
 36)C Chloroform        0.585 0.547 0.521 0.520 0.498 0.526 0.539 0.534   5.11
 37)  Ethyl acetate     0.282 0.218 0.220 0.230 0.247 0.244 0.257 0.242   9.34
 38)  Tetrahydrofuran   0.081 0.086 0.066 0.071 0.068 0.071 0.071 0.073   9.85
 39)S Dibromofluorometh 0.275 0.282 0.276 0.279 0.280 0.282 0.283 0.280   1.09
 40)  Carbon Tetrachlor 0.299 0.281 0.273 0.301 0.313 0.354 0.379 0.314  12.30
 41)  1,1,1-Trichloroet 0.430 0.406 0.394 0.414 0.411 0.448 0.466 0.424   6.00
 42)  2-Butanone        0.105 0.112 0.107 0.109 0.112 0.111 0.113 0.110   2.73
 43)  1,1-Dichloroprope 0.431 0.399 0.373 0.379 0.367 0.390 0.397 0.391   5.49
 44)  tert-Butyl format 0.059 0.099 0.129 0.125 0.155 0.163 0.181 0.130  31.97
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
              Response Ratio = 0.00000 + 0.11749 *A + 0.00645 *A^2

 45)  Propionitrile     0.027 0.034 0.035 0.033 0.036 0.036 0.035 0.034   9.33
 46)  Methacrylonitrile 0.173 0.210 0.196 0.184 0.205 0.204 0.206 0.197   6.94
 47)  Benzene           1.263 1.138 1.084 1.084 1.033 1.106 1.123 1.119   6.45
 48)  TAME              0.716 0.712 0.685 0.721 0.704 0.751 0.778 0.724   4.29
 49)  Isobutyl alcohol  0.015 0.005 0.005 0.005 0.007 0.008 0.007 0.008  48.37
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9927
              Response Ratio = 0.00000 + 0.00692 *A + 0.00001 *A^2

 50)S 1,2-Dichloroethan 0.259 0.277 0.252 0.252 0.260 0.255 0.260 0.259   3.23
 51)  1,2-Dichloroethan 0.501 0.465 0.434 0.441 0.428 0.456 0.460 0.455   5.37
 52)  Tert Amyl Alcohol 0.005 0.013 0.008 0.011 0.011 0.013 0.012 0.011  28.67
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9939
              Response Ratio = 0.00000 + 0.01072 *A + 0.00009 *A^2

 53)  Trichloroethene   0.377 0.318 0.302 0.303 0.292 0.309 0.314 0.316   8.81
 54)  Methylcyclohexane 0.438 0.423 0.386 0.396 0.391 0.415 0.415 0.409   4.62
 55)  Dibromomethane    0.230 0.207 0.202 0.202 0.192 0.203 0.206 0.206   5.66
 56)C 1,2-Dichloropropa 0.320 0.295 0.279 0.284 0.275 0.291 0.297 0.292   5.19
 57)  Bromodichlorometh 0.357 0.344 0.331 0.364 0.354 0.389 0.407 0.364   7.13
 58)  Methyl methacryla 0.112 0.194 0.201 0.201 0.237 0.243 0.260 0.207  23.60
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.19627 *A + 0.03295 *A^2

 59)  1,4-Dioxane             0.003 0.002 0.002 0.002 0.002       0.002  13.99
 60)  2-Chloroethyl vin 0.134 0.196 0.225 0.189 0.205 0.192 0.198 0.191  14.65
 61)  cis-1,3-Dichlorop 0.346 0.375 0.384 0.409 0.404 0.444 0.457 0.403   9.65

 62) I   Chlorobenzene-d5      ----------------ISTD--------------------
 63)S Toluene-d8        1.335 1.324 1.348 1.333 1.358 1.333 1.363 1.342   1.07
 64)C Toluene           1.789 1.626 1.539 1.529 1.508 1.562 1.643 1.600   6.08
 65)  2-Nitropropane    0.028 0.038 0.030 0.036 0.040 0.048 0.057 0.039  25.12
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.02908 *A + 0.00272 *A^2

 66)  4-Methyl-2-pentan 0.286 0.374 0.353 0.349 0.378 0.369 0.395 0.358   9.86
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Initial Calibration Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VO2866-ICC2866
Lab FileID: O72894.D

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 67)  trans-1,3-Dichlor 0.382 0.393 0.412 0.464 0.492 0.537 0.573 0.465  15.84
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 0.42070 *A + 0.07857 *A^2

 68)  Tetrachloroethene 0.494 0.458 0.441 0.431 0.435 0.445 0.467 0.453   4.85
 69)  Ethyl methacrylat 0.166 0.284 0.328 0.345 0.430 0.442 0.484 0.354  30.79
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9982
               Response Ratio = 0.00000 + 0.32644 *A + 0.08142 *A^2

 70)  1,1,2-Trichloroet 0.318 0.321 0.297 0.302 0.297 0.304 0.319 0.308   3.50
 71)  Dibromochlorometh 0.275 0.326 0.316 0.360 0.381 0.421 0.457 0.362  17.38
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
               Response Ratio = 0.00000 + 0.32195 *A + 0.06866 *A^2

 72)  1,3-Dichloropropa 0.669 0.651 0.598 0.597 0.591 0.605 0.638 0.621   4.97
 73)  1,2-Dibromoethane 0.350 0.382 0.359 0.367 0.363 0.377 0.397 0.371   4.26
 74)  3,3-dimethyl-1-bu 0.007 0.007 0.009 0.010 0.014 0.016 0.018 0.011  36.81
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9977
               Response Ratio = 0.00000 + 0.00882 *A + 0.00009 *A^2

 75)  2-hexanone        0.177 0.238 0.236 0.236 0.257 0.250 0.267 0.237  12.22
 76)  1-Chlorohexane    0.452 0.448 0.435 0.437 0.449 0.463 0.486 0.453   3.83
 77)C Ethylbenzene      1.991 1.807 1.707 1.732 1.728 1.787 1.862 1.802   5.50
 78)P Chlorobenzene     1.198 1.099 1.036 1.036 1.026 1.064 1.105 1.081   5.59
 79)  1,1,1,2-Tetrachlo 0.251 0.287 0.296 0.325 0.342 0.372 0.399 0.324  15.75
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
               Response Ratio = 0.00000 + 0.29572 *A + 0.05255 *A^2

 80)  m,p-Xylene        1.386 1.368 1.320 1.347 1.339 1.411 1.465 1.377   3.60
 81)  o-Xylene          1.393 1.345 1.299 1.306 1.314 1.365 1.440 1.352   3.83
 82)  Styrene           0.804 0.974 0.963 1.019 1.028 1.076 1.130 0.999  10.38
 83)P Bromoform         0.130 0.170 0.164 0.202 0.221 0.252 0.278 0.202  25.76
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
               Response Ratio = 0.00000 + 0.17211 *A + 0.05431 *A^2

 84)  Isopropylbenzene  1.580 1.602 1.545 1.566 1.561 1.617 1.691 1.594   3.07

 85) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 86)S 4-Bromofluorobenz 1.007 0.926 1.031 0.997 1.008 0.973 1.015 0.994   3.51
 87)  cis-1,4-Dichloro- 0.164 0.247 0.301 0.293 0.376 0.369 0.436 0.312  29.04
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9973
               Response Ratio = 0.00000 + 0.27417 *A + 0.07945 *A^2

 88)  n-Propylbenzene   5.380 4.523 5.090 4.939 5.238 5.205 5.848 5.174   7.84
 89)  Bromobenzene      1.398 1.190 1.286 1.254 1.302 1.263 1.418 1.301   6.22
 90)P 1,1,2,2-Tetrachlo 1.181 1.245 1.170 1.177 1.221 1.187 1.330 1.216   4.70
 91)  1,3,5-Trimethylbe 3.578 3.115 3.577 3.560 3.733 3.766 4.232 3.652   9.11
 92)  2-Chlorotoluene   3.302 2.904 3.253 3.161 3.269 3.240 3.664 3.256   6.89
 93)  trans-1,4-Dichlor 0.218 0.244 0.246 0.273 0.300 0.299 0.356 0.277  16.67
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
               Response Ratio = 0.00000 + 0.24071 *A + 0.05475 *A^2

 94)  1,2,3-Trichloropr 0.377 0.363 0.358 0.345 0.361 0.350 0.391 0.364   4.31
 95)  Cyclohexanone           0.018 0.023 0.022 0.025 0.022 0.019 0.022  10.98
 96)  4-Chlorotoluene   3.302 2.904 3.253 3.161 3.269 3.240 3.664 3.256   6.89
 97)  tert-Butylbenzene 2.152 1.777 1.986 1.930 2.032 2.024 2.279 2.026   7.87
 98)  a-Methyl styrene                                                0.000  -1.00
 99)  1,2,4-Trimethylbe 3.509 3.111 3.512 3.455 3.651 3.624 4.084 3.564   8.14
100)  Pentachloroethane 0.205 0.305 0.429 0.435 0.586 0.608 0.725 0.470  38.61
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9973
```

Initial Calibration Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VO2866-ICC2866
Lab FileID: O72894.D

```
                Response Ratio = 0.00000 + 0.38525 *A + 0.17005 *A^2

101)  sec-Butylbenzene  4.194 3.607 4.037 3.909 4.082 4.042 4.503 4.053   6.71
102)  4-Isopropyltoluen 3.416 3.053 3.467 3.437 3.612 3.582 4.015 3.512   8.18
103)  1,3-Dichlorobenze 2.447 2.115 2.201 2.172 2.253 2.195 2.457 2.263   6.00
104)  1,2,3-Trimethylbe 3.628 3.219 3.565 3.527 3.698 3.709 4.162 3.644   7.74
105)  1,4-Dichlorobenze 2.707 2.216 2.400 2.280 2.382 2.329 2.592 2.415   7.23
106)  n-Butylbenzene    1.702 1.635 1.813 1.810 1.929 1.951 2.193 1.862   9.91
107)  Benzyl Chloride   0.137 0.161 0.193 0.263 0.321 0.365 0.453 0.271  42.79
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
                Response Ratio = 0.00000 + 0.19284 *A + 0.12965 *A^2

108)  1,2-Dichlorobenze 2.327 2.082 2.146 2.100 2.191 2.139 2.388 2.196   5.31
109)  1,2-Dibromo-3-Chl 0.071 0.137 0.137 0.156 0.174 0.188 0.218 0.155  30.12
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 0.13382 *A + 0.04157 *A^2

110)  Hexachlorobutadie 0.531 0.435 0.459 0.448 0.472 0.464 0.538 0.478   8.41
111)  1,2,4-Trichlorobe 1.372 1.233 1.282 1.296 1.373 1.360 1.553 1.353   7.62
112)  Naphthalene       3.178 3.327 3.175 3.273 3.415 3.404 3.865 3.377   6.99
113)  1,2,3-Trichlorobe 1.305 1.198 1.190 1.190 1.248 1.240 1.418 1.255   6.60
 ----------------------------------------------------------------------------
 (#) = Out of Range

           VO_12-08-2022.M        Thu Dec 08 15:43:02 2022
```

Initial Calibration Verification

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VO2866-ICV2866
Lab FileID: O72898.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\data\2022-12-08\O72898.D Vial: 10
Acq On : 8 Dec 2022 1:16 pm Operator: adelardl
Sample : ICV2866-5 Inst : MSVOA12
Misc : MS52645,VO2866,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\2\met...\VO_12-08-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Dec 08 14:27:47 2022
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	110	0.00	8.55
2	Dichlorodifluoromethane		----------NA----------				
3 P	Chloromethane	0.308	0.259	15.9	80	0.00	3.01
4	1,3-butadiene	0.309	0.324	-4.9	121	0.00	3.18
5 C	Vinyl Chloride	0.311	0.270	13.2	82	0.00	3.15
	----------	Amount	Calc.	%Drift	----------		
6	Bromomethane	40.000	38.177	4.6	95	0.00	3.68
7	Chloroethane	40.000	34.583	13.5	87	0.00	3.88
8	Trichlorofluoromethane	40.000	35.132	12.2	88	0.00	4.10
	----------	AvgRF	CCRF	%Dev	----------		
9	Ethyl Ether	0.231	0.211	8.7	105	0.00	4.55
10	Ethanol	0.001	0.001	0.0	83	0.00	4.77
11	1,2-Dichlorotrifluoroetha	0.352	0.310	11.9	103	0.00	4.82
12 C	1,1-Dichloroethene	0.433	0.376	13.2	100	0.00	4.82
13	Freon 113	0.295	0.245	16.9	100	0.00	4.88
14	Carbon Disulfide	0.835	0.763	8.6	109	0.00	4.86
	----------	Amount	Calc.	%Drift	----------		
15	Iodomethane	40.000	36.923	7.7	87	0.00	5.02
16	Acrolein	200.000	170.858	14.6	91	0.00	5.27
	----------	AvgRF	CCRF	%Dev	----------		
17	Allyl chloride	0.386	0.412	-6.7	115	0.00	5.45
	----------	Amount	Calc.	%Drift	----------		
18	Methylene Chloride	40.000	35.648	10.9	105	0.00	5.59
19	Acetone	200.000	192.124	3.9	107	0.00	5.65
	----------	AvgRF	CCRF	%Dev	----------		
20	Methyl acetate	0.183	0.186	-1.6	114	0.00	5.81
21	trans-1,2-Dichloroethene	0.419	0.374	10.7	103	0.00	5.79
22	Hexane	0.197	0.180	8.6	103	0.00	5.88
23	Methyl Tert Butyl Ether	0.770	0.723	6.1	109	0.00	5.92
	----------	Amount	Calc.	%Drift	----------		
24	Tert Butyl Alcohol	400.000	389.813	2.5	109	0.00	6.02
	----------	AvgRF	CCRF	%Dev	----------		
25	Acetonitrile	0.028	0.025	10.7	95	0.00	6.23
26	Di-isopropyl ether	0.938	0.913	2.7	113	0.00	6.37

Initial Calibration Verification

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VO2866-ICV2866
Lab FileID: O72898.D

27		Chloroprene	0.346	0.402	-16.2	123	0.00	6.51
28	P	1,1-Dichloroethane	0.508	0.476	6.3	110	0.00	6.54
29		Acrylonitrile	0.080	0.074	7.5	105	0.00	6.60
30		ETBE	0.836	0.819	2.0	110	0.00	6.80
31		Vinyl acetate	0.533	0.632	-18.6	119	0.00	6.82
32		cis-1,2-Dichloroethene	0.304	0.281	7.6	109	0.00	7.18
33		2,2-Dichloropropane	0.358	0.341	4.7	103	0.00	7.30
34		Bromochloromethane	0.162	0.155	4.3	110	0.00	7.40
35		Cyclohexane	0.437	0.415	5.0	108	0.00	7.41
36	C	Chloroform	0.534	0.484	9.4	106	0.00	7.48
37		Ethyl acetate	0.242	0.244	-0.8	108	0.00	7.59
38		Tetrahydrofuran	0.073	0.072	1.4	116	0.00	7.67
39	S	Dibromofluoromethane	0.280	0.278	0.7	109	0.00	7.68
40		Carbon Tetrachloride	0.314	0.307	2.2	107	0.00	7.64
41		1,1,1-Trichloroethane	0.424	0.403	5.0	107	0.00	7.71
42		2-Butanone	0.110	0.108	1.8	106	0.00	7.81
43		1,1-Dichloropropene	0.391	0.343	12.3	102	0.00	7.85
			Amount	Calc.	%Drift			
44		tert-Butyl formate	200.000	162.330	18.8	79	0.00	7.96
			AvgRF	CCRF	%Dev			
45		Propionitrile	0.034	0.033	2.9	100	0.00	8.14
46		Methacrylonitrile	0.197	0.196	0.5	104	0.00	8.16
47		Benzene	1.119	0.994	11.2	105	0.00	8.12
48		TAME	0.724	0.713	1.5	111	0.00	8.21
			Amount	Calc.	%Drift			
49		Isobutyl alcohol	800.000	717.414	10.3	95	0.00	8.30
			AvgRF	CCRF	%Dev			
50	S	1,2-Dichloroethane-d4	0.259	0.262	-1.2	111	0.00	8.26
51		1,2-Dichloroethane	0.455	0.419	7.9	107	0.00	8.34
			Amount	Calc.	%Drift			
52		Tert Amyl Alcohol	400.000	392.452	1.9	107	0.00	8.40
			AvgRF	CCRF	%Dev			
53		Trichloroethene	0.316	0.280	11.4	105	0.00	8.73
54		Methylcyclohexane	0.409	0.386	5.6	108	0.00	8.73
55		Dibromomethane	0.206	0.184	10.7	105	0.00	9.18
56	C	1,2-Dichloropropane	0.292	0.259	11.3	103	0.00	9.27
57		Bromodichloromethane	0.364	0.360	1.1	111	0.00	9.33
			Amount	Calc.	%Drift			
58		Methyl methacrylate	40.000	44.369	-10.9	116	0.00	9.46
			AvgRF	CCRF	%Dev			
59		1,4-Dioxane		----------NA----------				
60		2-Chloroethyl vinyl ether	0.191	0.191	0.0	102	0.00	9.88
61		cis-1,3-Dichloropropene	0.403	0.397	1.5	107	0.00	9.96
62	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00	11.72
63	S	Toluene-d8	1.342	1.382	-3.0	109	0.00	10.15
64	C	Toluene	1.600	1.504	6.0	106	0.00	10.21
			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	194.033	3.0	104	0.00	10.44
			AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VO2866-ICV2866
Lab FileID: O72898.D

66		4-Methyl-2-pentanone	0.358	0.366	-2.2	103	0.00	10.56
		----------	Amount	Calc.	%Drift	----------		
67		trans-1,3-Dichloropropene	40.000	44.217	-10.5	117	0.00	10.62
		----------	AvgRF	CCRF	%Dev	----------		
68		Tetrachloroethene	0.453	0.433	4.4	106	0.00	10.60
		----------	Amount	Calc.	%Drift	----------		
69		Ethyl methacrylate	40.000	42.379	-5.9	104	0.00	10.73
		----------	AvgRF	CCRF	%Dev	----------		
70		1,1,2-Trichloroethane	0.308	0.305	1.0	109	0.00	10.78
		----------	Amount	Calc.	%Drift	----------		
71		Dibromochloromethane	40.000	40.761	-1.9	108	0.00	10.97
		----------	AvgRF	CCRF	%Dev	----------		
72		1,3-Dichloropropane	0.621	0.562	9.5	101	0.00	11.07
73		1,2-Dibromoethane	0.371	0.366	1.3	107	0.00	11.23
		----------	Amount	Calc.	%Drift	----------		
74		3,3-dimethyl-1-butanol	2000.000	1934.383	3.3	93	0.00	11.34
		----------	AvgRF	CCRF	%Dev	----------		
75		2-hexanone	0.237	0.248	-4.6	103	0.00	11.40
76		1-Chlorohexane	0.453	0.467	-3.1	111	0.00	11.68
77	C	Ethylbenzene	1.802	1.738	3.6	107	0.00	11.74
78	P	Chlorobenzene	1.081	1.040	3.8	108	0.00	11.74
		----------	Amount	Calc.	%Drift	----------		
79		1,1,1,2-Tetrachloroethane	40.000	41.810	-4.5	111	0.00	11.79
		----------	AvgRF	CCRF	%Dev	----------		
80		m,p-Xylene	1.377	1.355	1.6	108	0.00	11.88
81		o-Xylene	1.352	1.358	-0.4	110	0.00	12.32
82		Styrene	0.999	1.036	-3.7	107	0.00	12.38
		----------	Amount	Calc.	%Drift	----------		
83	P	Bromoform	40.000	42.906	-7.3	113	0.00	12.43
		----------	AvgRF	CCRF	%Dev	----------		
84		Isopropylbenzene	1.594	1.595	-0.1	109	0.00	12.63
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	14.10
86	S	4-Bromofluorobenzene	0.994	1.028	-3.4	107	0.00	12.94
		----------	Amount	Calc.	%Drift	----------		
87		cis-1,4-Dichloro-2-butene	40.000	41.553	-3.9	99	0.00	12.99
		----------	AvgRF	CCRF	%Dev	----------		
88		n-Propylbenzene	5.174	5.413	-4.6	108	0.00	13.05
89		Bromobenzene	1.301	1.270	2.4	102	0.00	13.07
90	P	1,1,2,2-Tetrachloroethane	1.216	1.270	-4.4	109	0.00	13.13
91		1,3,5-Trimethylbenzene	3.652	3.779	-3.5	106	0.00	13.24
92		2-Chlorotoluene	3.256	3.431	-5.4	110	0.00	13.41
		----------	Amount	Calc.	%Drift	----------		
93		trans-1,4-Dichloro-2-Bute	40.000	45.969	-14.9	117	0.00	13.31

Initial Calibration Verification

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VO2866-ICV2866
Lab FileID: O72898.D

		AvgRF	CCRF	%Dev			
94	1,2,3-Trichloropropane	0.364	0.342	6.0	99	0.00	13.29
95	Cyclohexanone	0.022	0.021	4.5	87	0.00	13.35
96	4-Chlorotoluene	3.256	3.431	-5.4	110	0.00	13.41
97	tert-Butylbenzene	2.026	2.118	-4.5	109	0.00	13.58
98	a-Methyl styrene		----------NA----------				
99	1,2,4-Trimethylbenzene	3.564	3.779	-6.0	108	0.00	13.65

		Amount	Calc.	%Drift			
100	Pentachloroethane	40.000	46.781	-17.0	114	0.00	13.63

		AvgRF	CCRF	%Dev			
101	sec-Butylbenzene	4.053	4.413	-8.9	113	0.00	13.76
102	4-Isopropyltoluene	3.512	3.802	-8.3	110	0.00	13.90
103	1,3-Dichlorobenzene	2.263	2.358	-4.2	110	0.00	14.02
104	1,2,3-Trimethylbenzene	3.644	4.097	-12.4	116	0.00	14.11
105	1,4-Dichlorobenzene	2.415	2.444	-1.2	107	0.00	14.11
106	n-Butylbenzene	1.862	1.928	-3.5	105	0.00	14.33

		Amount	Calc.	%Drift			
107	Benzyl Chloride	40.000	46.210	-15.5	118	0.00	14.35

		AvgRF	CCRF	%Dev			
108	1,2-Dichlorobenzene	2.196	2.254	-2.6	108	0.00	14.54

		Amount	Calc.	%Drift			
109	1,2-Dibromo-3-Chloropropa	40.000	41.952	-4.9	107	0.00	15.29

		AvgRF	CCRF	%Dev			
110	Hexachlorobutadiene	0.478	0.467	2.3	104	0.00	15.84
111	1,2,4-Trichlorobenzene	1.353	1.412	-4.4	108	0.00	15.89
112	Naphthalene	3.377	3.558	-5.4	109	0.00	16.18
113	1,2,3-Trichlorobenzene	1.255	1.295	-3.2	109	0.00	16.35

(#) = Out of Range SPCC's out = 0 CCC's out = 0
O72894.D VO_12-08-2022.M Thu Dec 08 15:41:55 2022

Initial Calibration Verification

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VO2866-ICV2866
Lab FileID: O72899.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\data\2022-12-08\O72899.D Vial: 11
Acq On : 8 Dec 2022 1:59 pm Operator: adelardl
Sample : ICV2866-4 Inst : MSVOA12
Misc : MS52645,VO2866,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\2\met...\VO_12-08-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Dec 08 14:27:47 2022
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	108	0.00	8.55
2		Dichlorodifluoromethane	0.351	0.273	22.2#	79	0.00	2.69
3	P	Chloromethane		----------NA----------				
4		1,3-butadiene		----------NA----------				
5	C	Vinyl Chloride		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
6		Bromomethane		----------NA----------				
7		Chloroethane		----------NA----------				
8		Trichlorofluoromethane		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
9		Ethyl Ether		----------NA----------				
10		Ethanol		----------NA----------				
11		1,2-Dichlorotrifluoroetha		----------NA----------				
12	C	1,1-Dichloroethene		----------NA----------				
13		Freon 113		----------NA----------				
14		Carbon Disulfide		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
15		Iodomethane		----------NA----------				
16		Acrolein		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
17		Allyl chloride		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
18		Methylene Chloride		----------NA----------				
19		Acetone		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
20		Methyl acetate		----------NA----------				
21		trans-1,2-Dichloroethene		----------NA----------				
22		Hexane		----------NA----------				
23		Methyl Tert Butyl Ether		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
24		Tert Butyl Alcohol		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
25		Acetonitrile		----------NA----------				
26		Di-isopropyl ether		----------NA----------				

Initial Calibration Verification

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VO2866-ICV2866
Lab FileID: O72899.D

27		Chloroprene			----------NA----------				
28	P	1,1-Dichloroethane			----------NA----------				
29		Acrylonitrile			----------NA----------				
30		ETBE			----------NA----------				
31		Vinyl acetate			----------NA----------				
32		cis-1,2-Dichloroethene			----------NA----------				
33		2,2-Dichloropropane			----------NA----------				
34		Bromochloromethane			----------NA----------				
35		Cyclohexane			----------NA----------				
36	C	Chloroform			----------NA----------				
37		Ethyl acetate			----------NA----------				
38		Tetrahydrofuran			----------NA----------				
39	S	Dibromofluoromethane	0.280	0.279	0.4	108	0.00	7.68	
40		Carbon Tetrachloride			----------NA----------				
41		1,1,1-Trichloroethane			----------NA----------				
42		2-Butanone			----------NA----------				
43		1,1-Dichloropropene			----------NA----------				
		----------	Amount	Calc.	%Drift	----------			
44		tert-Butyl formate			----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------			
45		Propionitrile			----------NA----------				
46		Methacrylonitrile			----------NA----------				
47		Benzene			----------NA----------				
48		TAME			----------NA----------				
		----------	Amount	Calc.	%Drift	----------			
49		Isobutyl alcohol			----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------			
50	S	1,2-Dichloroethane-d4	0.259	0.254	1.9	109	0.00	8.26	
51		1,2-Dichloroethane			----------NA----------				
		----------	Amount	Calc.	%Drift	----------			
52		Tert Amyl Alcohol			----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------			
53		Trichloroethene			----------NA----------				
54		Methylcyclohexane			----------NA----------				
55		Dibromomethane			----------NA----------				
56	C	1,2-Dichloropropane			----------NA----------				
57		Bromodichloromethane			----------NA----------				
		----------	Amount	Calc.	%Drift	----------			
58		Methyl methacrylate			----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------			
59		1,4-Dioxane	0.002	0.002	0.0	83	0.00	9.54	
60		2-Chloroethyl vinyl ether			----------NA----------				
61		cis-1,3-Dichloropropene			----------NA----------				
62	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00	11.72	
63	S	Toluene-d8	1.342	1.390	-3.6	105	0.00	10.15	
64	C	Toluene			----------NA----------				
		----------	Amount	Calc.	%Drift	----------			
65		2-Nitropropane			----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------			

Initial Calibration Verification

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VO2866-ICV2866
Lab FileID: O72899.D

66		4-Methyl-2-pentanone		----------NA----------				
		---------- Amount	Calc.	%Drift	----------			
67		trans-1,3-Dichloropropene		----------NA----------				
		---------- AvgRF	CCRF	%Dev	----------			
68		Tetrachloroethene		----------NA----------				
		---------- Amount	Calc.	%Drift	----------			
69		Ethyl methacrylate		----------NA----------				
		---------- AvgRF	CCRF	%Dev	----------			
70		1,1,2-Trichloroethane		----------NA----------				
		---------- Amount	Calc.	%Drift	----------			
71		Dibromochloromethane		----------NA----------				
		---------- AvgRF	CCRF	%Dev	----------			
72		1,3-Dichloropropane		----------NA----------				
73		1,2-Dibromoethane		----------NA----------				
		---------- Amount	Calc.	%Drift	----------			
74		3,3-dimethyl-1-butanol		----------NA----------				
		---------- AvgRF	CCRF	%Dev	----------			
75		2-hexanone		----------NA----------				
76		1-Chlorohexane		----------NA----------				
77	C	Ethylbenzene		----------NA----------				
78	P	Chlorobenzene		----------NA----------				
		---------- Amount	Calc.	%Drift	----------			
79		1,1,1,2-Tetrachloroethane		----------NA----------				
		---------- AvgRF	CCRF	%Dev	----------			
80		m,p-Xylene		----------NA----------				
81		o-Xylene		----------NA----------				
82		Styrene		----------NA----------				
		---------- Amount	Calc.	%Drift	----------			
83	P	Bromoform		----------NA----------				
		---------- AvgRF	CCRF	%Dev	----------			
84		Isopropylbenzene		----------NA----------				
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	14.10
86	S	4-Bromofluorobenzene	0.994	0.988	0.6	100	0.00	12.94
		---------- Amount	Calc.	%Drift	----------			
87		cis-1,4-Dichloro-2-butene		----------NA----------				
		---------- AvgRF	CCRF	%Dev	----------			
88		n-Propylbenzene		----------NA----------				
89		Bromobenzene		----------NA----------				
90	P	1,1,2,2-Tetrachloroethane		----------NA----------				
91		1,3,5-Trimethylbenzene		----------NA----------				
92		2-Chlorotoluene		----------NA----------				
		---------- Amount	Calc.	%Drift	----------			
93		trans-1,4-Dichloro-2-Bute		----------NA----------				

Initial Calibration Verification

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VO2866-ICV2866
Lab FileID: O72899.D

		AvgRF	CCRF	%Dev
94	1,2,3-Trichloropropane		----------NA----------	
95	Cyclohexanone		----------NA----------	
96	4-Chlorotoluene		----------NA----------	
97	tert-Butylbenzene		----------NA----------	
98	a-Methyl styrene		----------NA----------	
99	1,2,4-Trimethylbenzene		----------NA----------	

		Amount	Calc.	%Drift
100	Pentachloroethane		----------NA----------	

		AvgRF	CCRF	%Dev
101	sec-Butylbenzene		----------NA----------	
102	4-Isopropyltoluene		----------NA----------	
103	1,3-Dichlorobenzene		----------NA----------	
104	1,2,3-Trimethylbenzene		----------NA----------	
105	1,4-Dichlorobenzene		----------NA----------	
106	n-Butylbenzene		----------NA----------	

		Amount	Calc.	%Drift
107	Benzyl Chloride		----------NA----------	

		AvgRF	CCRF	%Dev
108	1,2-Dichlorobenzene		----------NA----------	

		Amount	Calc.	%Drift
109	1,2-Dibromo-3-Chloropropa		----------NA----------	

		AvgRF	CCRF	%Dev
110	Hexachlorobutadiene		----------NA----------	
111	1,2,4-Trichlorobenzene		----------NA----------	
112	Naphthalene		----------NA----------	
113	1,2,3-Trichlorobenzene		----------NA----------	

(#) = Out of Range SPCC's out = 4 CCC's out = 6
O72893.D VO_12-08-2022.M Thu Dec 08 15:42:40 2022

Continuing Calibration Summary

Job Number: FC1292 **Sample:** VO2871-CC2866
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** O73051.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ce...-2022\VO2871\O73051.d Vial: 3
Acq On : 16 Dec 2022 9:40 am Operator: adelardl
Sample : CC2866-5 Inst : MSVOA12
Misc : MS53002,VO2871,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\met...\VO_12-08-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Dec 08 14:27:47 2022
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	87	0.00	8.55
2	Dichlorodifluoromethane	0.351	0.350	0.3	76	0.00	2.69
3 P	Chloromethane	0.308	0.315	-2.3	77	0.00	3.02
4	1,3-butadiene	0.309	0.336	-8.7	99	0.00	3.19
5 C	Vinyl Chloride	0.311	0.346	-11.3	83	0.00	3.16
		True	Calc.	% Drift			
6	Bromomethane	40.000	33.899	15.3	66	0.00	3.68
7	Chloroethane	40.000	46.679	-16.7	92	0.00	3.88
8	Trichlorofluoromethane	40.000	40.932	-2.3	82	0.00	4.10
		AvgRF	CCRF	% Dev			
9	Ethyl Ether	0.231	0.223	3.5	88	0.00	4.55
10	Ethanol	0.001	0.002	-100.0#	118	0.00	4.78
11	1,2-Dichlorotrifluoroetha	0.352	0.351	0.3	92	0.00	4.82
12 C	1,1-Dichloroethene	0.433	0.417	3.7	88	0.00	4.82
13	Freon 113	0.295	0.286	3.1	92	0.00	4.88
14	Carbon Disulfide	0.835	0.822	1.6	93	0.00	4.87
		True	Calc.	% Drift			
15	Iodomethane	40.000	39.368	1.6	77	0.00	5.02
16	Acrolein	200.000	195.939	2.0	82	0.00	5.28
		AvgRF	CCRF	% Dev			
17	Allyl chloride	0.386	0.393	-1.8	87	0.00	5.46
		True	Calc.	% Drift			
18	Methylene Chloride	40.000	38.435	3.9	90	0.00	5.59
19	Acetone	200.000	208.049	-4.0	91	0.00	5.65
		AvgRF	CCRF	% Dev			
20	Methyl acetate	0.183	0.194	-6.0	95	0.00	5.81
21	trans-1,2-Dichloroethene	0.419	0.406	3.1	89	0.00	5.80
22	Hexane	0.197	0.174	11.7	79	0.00	5.88
23	Methyl Tert Butyl Ether	0.770	0.714	7.3	85	0.00	5.92
		True	Calc.	% Drift			
24	Tert Butyl Alcohol	400.000	454.568	-13.6	101	0.00	6.02
		AvgRF	CCRF	% Dev			
25	Acetonitrile	0.028	0.030	-7.1	91	0.00	6.23
26	Di-isopropyl ether	0.938	0.891	5.0	88	0.00	6.37

Continuing Calibration Summary

Job Number: FC1292 **Sample:** VO2871-CC2866
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** O73051.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

27		Chloroprene	0.346	0.350	-1.2	85	0.00	6.51
28	P	1,1-Dichloroethane	0.508	0.489	3.7	90	0.00	6.54
29		Acrylonitrile	0.080	0.079	1.3	88	0.00	6.60
30		ETBE	0.836	0.802	4.1	86	0.00	6.80
31		Vinyl acetate	0.533	0.605	-13.5	91	0.00	6.82
32		cis-1,2-Dichloroethene	0.304	0.295	3.0	91	0.00	7.18
33		2,2-Dichloropropane	0.358	0.371	-3.6	89	0.00	7.30
34		Bromochloromethane	0.162	0.159	1.9	90	0.00	7.40
35		Cyclohexane	0.437	0.436	0.2	91	0.00	7.41
36	C	Chloroform	0.534	0.519	2.8	91	0.00	7.48
37		Ethyl acetate	0.242	0.254	-5.0	89	0.00	7.59
38		Tetrahydrofuran	0.073	0.073	0.0	93	0.00	7.67
39	S	Dibromofluoromethane	0.280	0.270	3.6	84	0.00	7.68
40		Carbon Tetrachloride	0.314	0.377	-20.1#	105	0.00	7.64
41		1,1,1-Trichloroethane	0.424	0.443	-4.5	94	0.00	7.72
42		2-Butanone	0.110	0.118	-7.3	92	0.00	7.81
43		1,1-Dichloropropene	0.391	0.381	2.6	90	0.00	7.85
			True	Calc.	% Drift			
44		tert-Butyl formate	200.000	213.421	-6.7	87	0.00	7.96
			AvgRF	CCRF	% Dev			
45		Propionitrile	0.034	0.039	-14.7	93	0.00	8.14
46		Methacrylonitrile	0.197	0.211	-7.1	89	0.00	8.16
47		Benzene	1.119	1.106	1.2	93	0.00	8.12
48		TAME	0.724	0.707	2.3	87	0.00	8.21
			True	Calc.	% Drift			
49		Isobutyl alcohol	800.000	1027.056	-28.4#	109	0.00	8.29
			AvgRF	CCRF	% Dev			
50	S	1,2-Dichloroethane-d4	0.259	0.236	8.9	79	0.00	8.26
51		1,2-Dichloroethane	0.455	0.425	6.6	86	0.00	8.34
			True	Calc.	% Drift			
52		Tert Amyl Alcohol	400.000	472.944	-18.2	104	0.00	8.40
			AvgRF	CCRF	% Dev			
53		Trichloroethene	0.316	0.309	2.2	92	0.00	8.73
54		Methylcyclohexane	0.409	0.414	-1.2	92	0.00	8.73
55		Dibromomethane	0.206	0.200	2.9	90	0.00	9.18
56	C	1,2-Dichloropropane	0.292	0.280	4.1	89	0.00	9.27
57		Bromodichloromethane	0.364	0.382	-4.9	94	0.00	9.33
			True	Calc.	% Drift			
58		Methyl methacrylate	40.000	41.419	-3.5	85	0.00	9.46
			AvgRF	CCRF	% Dev			
59		1,4-Dioxane	0.002	0.002	0.0	101	0.00	9.53
60		2-Chloroethyl vinyl ether	0.191	0.195	-2.1	83	0.00	9.88
61		cis-1,3-Dichloropropene	0.403	0.433	-7.4	93	0.00	9.97
62	I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00	11.72
63	S	Toluene-d8	1.342	1.354	-0.9	84	0.00	10.15
64	C	Toluene	1.600	1.657	-3.6	92	0.00	10.21
			True	Calc.	% Drift			
65		2-Nitropropane	200.000	381.594	-90.8#	202	0.00	10.44
			AvgRF	CCRF	% Dev			

Continuing Calibration Summary

Job Number: FC1292 **Sample:** VO2871-CC2866
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** O73051.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

66		4-Methyl-2-pentanone	0.358	0.405	-13.1	90	0.00	10.56
		----------	True	Calc.	% Drift	----------		
67		trans-1,3-Dichloropropene	40.000	44.620	-11.5	94	0.00	10.62
		----------	AvgRF	CCRF	% Dev	----------		
68		Tetrachloroethene	0.453	0.466	-2.9	90	0.00	10.60
		----------	True	Calc.	% Drift	----------		
69		Ethyl methacrylate	40.000	45.764	-14.4	90	0.00	10.73
		----------	AvgRF	CCRF	% Dev	----------		
70		1,1,2-Trichloroethane	0.308	0.326	-5.8	93	0.00	10.78
		----------	True	Calc.	% Drift	----------		
71		Dibromochloromethane	40.000	47.164	-17.9	101	0.00	10.97
		----------	AvgRF	CCRF	% Dev	----------		
72		1,3-Dichloropropane	0.621	0.632	-1.8	90	0.00	11.07
73		1,2-Dibromoethane	0.371	0.399	-7.5	92	0.00	11.23
		----------	True	Calc.	% Drift	----------		
74		3,3-dimethyl-1-butanol	2000.000	3031.642	-51.6#	134	0.00	11.34
		----------	AvgRF	CCRF	% Dev	----------		
75		2-hexanone	0.237	0.283	-19.4	93	0.00	11.40
76		1-Chlorohexane	0.453	0.489	-7.9	92	0.00	11.68
77	C	Ethylbenzene	1.802	1.907	-5.8	93	0.00	11.74
78	P	Chlorobenzene	1.081	1.140	-5.5	93	0.00	11.74
		----------	True	Calc.	% Drift	----------		
79		1,1,1,2-Tetrachloroethane	40.000	46.338	-15.8	98	0.00	11.79
		----------	AvgRF	CCRF	% Dev	----------		
80		m,p-Xylene	1.377	1.487	-8.0	93	0.00	11.88
81		o-Xylene	1.352	1.404	-3.8	90	0.00	12.32
82		Styrene	0.999	1.122	-12.3	92	0.00	12.38
		----------	True	Calc.	% Drift	----------		
83	P	Bromoform	40.000	49.760	-24.4#	107	0.00	12.43
		----------	AvgRF	CCRF	% Dev	----------		
84		Isopropylbenzene	1.594	1.721	-8.0	93	0.00	12.63
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00	14.10
86	S	4-Bromofluorobenzene	0.994	0.909	8.6	80	0.00	12.94
		----------	True	Calc.	% Drift	----------		
87		cis-1,4-Dichloro-2-butene	40.000	43.703	-9.3	88	0.00	12.99
		----------	AvgRF	CCRF	% Dev	----------		
88		n-Propylbenzene	5.174	5.547	-7.2	94	0.00	13.05
89		Bromobenzene	1.301	1.323	-1.7	90	0.00	13.07
90	P	1,1,2,2-Tetrachloroethane	1.216	1.331	-9.5	96	0.00	13.13
91		1,3,5-Trimethylbenzene	3.652	3.895	-6.7	92	0.00	13.24
92		2-Chlorotoluene	3.256	3.405	-4.6	92	0.00	13.41
		----------	True	Calc.	% Drift	----------		
93		trans-1,4-Dichloro-2-Bute	40.000	42.848	-7.1	91	0.00	13.30

Continuing Calibration Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VO2871-CC2866
Lab FileID: O73051.D

		AvgRF	CCRF	% Dev			
94	1,2,3-Trichloropropane	0.364	0.383	-5.2	94	0.00	13.29
95	Cyclohexanone	0.022	0.026	-18.2	94	0.00	13.36
96	4-Chlorotoluene	3.256	3.405	-4.6	92	0.00	13.41
97	tert-Butylbenzene	2.026	2.115	-4.4	92	0.00	13.58
98	a-Methyl styrene		----------NA----------				
99	1,2,4-Trimethylbenzene	3.564	3.794	-6.5	92	0.00	13.65

		True	Calc.	% Drift			
100	Pentachloroethane	40.000	48.977	-22.4#	102	0.00	13.63

		AvgRF	CCRF	% Dev			
101	sec-Butylbenzene	4.053	4.394	-8.4	95	0.00	13.76
102	4-Isopropyltoluene	3.512	3.826	-8.9	94	0.00	13.90
103	1,3-Dichlorobenzene	2.263	2.326	-2.8	91	0.00	14.02
104	1,2,3-Trimethylbenzene	3.644	3.864	-6.0	92	0.00	14.11
105	1,4-Dichlorobenzene	2.415	2.484	-2.9	92	0.00	14.11
106	n-Butylbenzene	1.862	2.082	-11.8	96	0.00	14.33

		True	Calc.	% Drift			
107	Benzyl Chloride	40.000	49.813	-24.5#	111	0.00	14.35

		AvgRF	CCRF	% Dev			
108	1,2-Dichlorobenzene	2.196	2.250	-2.5	91	0.00	14.54

		True	Calc.	% Drift			
109	1,2-Dibromo-3-Chloropropa	40.000	47.957	-19.9	106	0.00	15.29

		AvgRF	CCRF	% Dev			
110	Hexachlorobutadiene	0.478	0.467	2.3	88	0.00	15.84
111	1,2,4-Trichlorobenzene	1.353	1.320	2.4	85	0.00	15.89
112	Naphthalene	3.377	3.550	-5.1	92	0.00	16.18
113	1,2,3-Trichlorobenzene	1.255	1.229	2.1	87	0.00	16.35

(#) = Out of Range SPCC's out = 0 CCC's out = 0
O72894.D VO_12-08-2022.M Sun Dec 18 07:03:52 2022

Continuing Calibration Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VO2871-ECC2866
Lab FileID: O73077.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ce...-2022\VO2871\O73077.d Vial: 29
Acq On : 16 Dec 2022 8:27 pm Operator: adelardl
Sample : ECC2866-5 Inst : MSVOA12
Misc : MS53026,VO2871,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\met...\VO_12-08-2022.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Dec 08 14:27:47 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Fluorobenzene	1.000	1.000	0.0	95	0.00	8.55
2	Dichlorodifluoromethane	0.351	0.336	4.3	80	0.00	2.68
3 P	Chloromethane	0.308	0.306	0.6	82	0.00	3.01
4	1,3-butadiene	0.309	0.329	-6.5	106	0.00	3.18
5 C	Vinyl Chloride	0.311	0.329	-5.8	87	0.00	3.15
		True	Calc.	% Drift			
6	Bromomethane	40.000	22.356	44.1	46	0.00	3.68
7	Chloroethane	40.000	43.015	-7.5	93	0.00	3.88
8	Trichlorofluoromethane	40.000	37.608	6.0	82	0.00	4.10
		AvgRF	CCRF	% Dev			
9	Ethyl Ether	0.231	0.222	3.9	96	0.00	4.55
10	Ethanol	0.001	0.001	0.0	112	0.00	4.78
11	1,2-Dichlorotrifluoroetha	0.352	0.326	7.4	94	0.00	4.82
12 C	1,1-Dichloroethene	0.433	0.394	9.0	91	0.00	4.82
13	Freon 113	0.295	0.255	13.6	90	0.00	4.88
14	Carbon Disulfide	0.835	0.751	10.1	93	0.00	4.86
		True	Calc.	% Drift			
15	Iodomethane	40.000	47.295	-18.2	114	0.00	5.02
16	Acrolein	200.000	172.626	13.7	79	0.00	5.27
		AvgRF	CCRF	% Dev			
17	Allyl chloride	0.386	0.373	3.4	90	0.00	5.45
		True	Calc.	% Drift			
18	Methylene Chloride	40.000	37.315	6.7	95	0.00	5.59
19	Acetone	200.000	213.867	-6.9	103	0.00	5.65
		AvgRF	CCRF	% Dev			
20	Methyl acetate	0.183	0.202	-10.4	107	0.00	5.80
21	trans-1,2-Dichloroethene	0.419	0.387	7.6	93	0.00	5.79
22	Hexane	0.197	0.167	15.2	83	0.00	5.88
23	Methyl Tert Butyl Ether	0.770	0.732	4.9	96	0.00	5.92
		True	Calc.	% Drift			
24	Tert Butyl Alcohol	400.000	476.345	-19.1	116	0.00	6.02
		AvgRF	CCRF	% Dev			
25	Acetonitrile	0.028	0.030	-7.1	99	0.00	6.23
26	Di-isopropyl ether	0.938	0.885	5.7	95	0.00	6.37

Continuing Calibration Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VO2871-ECC2866
Lab FileID: O73077.D

27		Chloroprene	0.346	0.330	4.6	87	0.00	6.51
28	P	1,1-Dichloroethane	0.508	0.471	7.3	94	0.00	6.54
29		Acrylonitrile	0.080	0.079	1.3	97	0.00	6.60
30		ETBE	0.836	0.809	3.2	94	0.00	6.80
31		Vinyl acetate	0.533	0.610	-14.4	100	0.00	6.82
32		cis-1,2-Dichloroethene	0.304	0.279	8.2	94	0.00	7.18
33		2,2-Dichloropropane	0.358	0.330	7.8	87	0.00	7.30
34		Bromochloromethane	0.162	0.153	5.6	94	0.00	7.40
35		Cyclohexane	0.437	0.403	7.8	91	0.00	7.41
36	C	Chloroform	0.534	0.490	8.2	94	0.00	7.48
37		Ethyl acetate	0.242	0.266	-9.9	102	0.00	7.59
38		Tetrahydrofuran	0.073	0.078	-6.8	109	0.00	7.67
39	S	Dibromofluoromethane	0.280	0.275	1.8	93	0.00	7.68
40		Carbon Tetrachloride	0.314	0.334	-6.4	102	0.00	7.64
41		1,1,1-Trichloroethane	0.424	0.413	2.6	96	0.00	7.71
42		2-Butanone	0.110	0.124	-12.7	105	0.00	7.81
43		1,1-Dichloropropene	0.391	0.357	8.7	92	0.00	7.85
			True	Calc.	% Drift			
44		tert-Butyl formate	200.000	213.836	-6.9	95	0.00	7.96
			AvgRF	CCRF	% Dev			
45		Propionitrile	0.034	0.039	-14.7	101	0.00	8.14
46		Methacrylonitrile	0.197	0.216	-9.6	100	0.00	8.16
47		Benzene	1.119	1.042	6.9	96	0.00	8.12
48		TAME	0.724	0.705	2.6	95	0.00	8.21
			True	Calc.	% Drift			
49		Isobutyl alcohol	800.000	1035.850	-29.5	120	0.00	8.29
			AvgRF	CCRF	% Dev			
50	S	1,2-Dichloroethane-d4	0.259	0.262	-1.2	96	0.00	8.26
51		1,2-Dichloroethane	0.455	0.425	6.6	94	0.00	8.34
			True	Calc.	% Drift			
52		Tert Amyl Alcohol	400.000	487.789	-21.9	118	0.00	8.40
			AvgRF	CCRF	% Dev			
53		Trichloroethene	0.316	0.285	9.8	93	0.00	8.73
54		Methylcyclohexane	0.409	0.374	8.6	91	0.00	8.73
55		Dibromomethane	0.206	0.194	5.8	96	0.00	9.18
56	C	1,2-Dichloropropane	0.292	0.272	6.8	94	0.00	9.27
57		Bromodichloromethane	0.364	0.354	2.7	95	0.00	9.33
			True	Calc.	% Drift			
58		Methyl methacrylate	40.000	43.301	-8.3	98	0.00	9.46
			AvgRF	CCRF	% Dev			
59		1,4-Dioxane	0.002	0.002	0.0	101	0.00	9.53
60		2-Chloroethyl vinyl ether	0.191	0.195	-2.1	90	0.00	9.88
61		cis-1,3-Dichloropropene	0.403	0.401	0.5	94	0.00	9.96
62	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00	11.72
63	S	Toluene-d8	1.342	1.319	1.7	94	0.00	10.15
64	C	Toluene	1.600	1.500	6.3	96	0.00	10.21
			True	Calc.	% Drift			
65		2-Nitropropane	200.000	293.378	-46.7	161	0.00	10.44
			AvgRF	CCRF	% Dev			

Continuing Calibration Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VO2871-ECC2866
Lab FileID: O73077.D

66		4-Methyl-2-pentanone	0.358	0.402	-12.3	103	0.00	10.56
		----------	True	Calc.	% Drift	----------		
67		trans-1,3-Dichloropropene	40.000	40.504	-1.3	96	0.00	10.62
		----------	AvgRF	CCRF	% Dev	----------		
68		Tetrachloroethene	0.453	0.430	5.1	96	0.00	10.60
		----------	True	Calc.	% Drift	----------		
69		Ethyl methacrylate	40.000	45.215	-13.0	102	0.00	10.73
		----------	AvgRF	CCRF	% Dev	----------		
70		1,1,2-Trichloroethane	0.308	0.305	1.0	99	0.00	10.78
		----------	True	Calc.	% Drift	----------		
71		Dibromochloromethane	40.000	42.043	-5.1	101	0.00	10.97
		----------	AvgRF	CCRF	% Dev	----------		
72		1,3-Dichloropropane	0.621	0.595	4.2	97	0.00	11.06
73		1,2-Dibromoethane	0.371	0.372	-0.3	99	0.00	11.23
		----------	True	Calc.	% Drift	----------		
74		3,3-dimethyl-1-butanol	2000.000	3033.051	-51.7#	154	0.00	11.34
		----------	AvgRF	CCRF	% Dev	----------		
75		2-hexanone	0.237	0.279	-17.7	105	0.00	11.40
76		1-Chlorohexane	0.453	0.432	4.6	93	0.00	11.68
77	C	Ethylbenzene	1.802	1.709	5.2	96	0.00	11.74
78	P	Chlorobenzene	1.081	1.011	6.5	95	0.00	11.74
		----------	True	Calc.	% Drift	----------		
79		1,1,1,2-Tetrachloroethane	40.000	41.250	-3.1	99	0.00	11.79
		----------	AvgRF	CCRF	% Dev	----------		
80		m,p-Xylene	1.377	1.326	3.7	96	0.00	11.88
81		o-Xylene	1.352	1.283	5.1	94	0.00	12.32
82		Styrene	0.999	1.001	-0.2	94	0.00	12.38
		----------	True	Calc.	% Drift	----------		
83	P	Bromoform	40.000	43.187	-8.0	104	0.00	12.43
		----------	AvgRF	CCRF	% Dev	----------		
84		Isopropylbenzene	1.594	1.519	4.7	94	0.00	12.63
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	119	0.00	14.10
86	S	4-Bromofluorobenzene	0.994	0.861	13.4	101	0.00	12.94
		----------	True	Calc.	% Drift	----------		
87		cis-1,4-Dichloro-2-butene	40.000	31.952	20.1	82	0.00	12.99
		----------	AvgRF	CCRF	% Dev	----------		
88		n-Propylbenzene	5.174	4.182	19.2	95	0.00	13.05
89		Bromobenzene	1.301	1.023	21.4	93	0.00	13.07
90	P	1,1,2,2-Tetrachloroethane	1.216	1.070	12.0	104	0.00	13.12
91		1,3,5-Trimethylbenzene	3.652	2.983	18.3	95	0.00	13.24
92		2-Chlorotoluene	3.256	2.600	20.1	94	0.00	13.41
		----------	True	Calc.	% Drift	----------		
93		trans-1,4-Dichloro-2-Bute	40.000	32.926	17.7	90	0.00	13.31

Continuing Calibration Summary

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: VO2871-ECC2866
Lab FileID: O73077.D

		AvgRF	CCRF	% Dev			
94	1,2,3-Trichloropropane	0.364	0.310	14.8	102	0.00	13.29
95	Cyclohexanone	0.022	0.020	9.1	96	0.00	13.35
96	4-Chlorotoluene	3.256	2.600	20.1	94	0.00	13.41
97	tert-Butylbenzene	2.026	1.628	19.6	95	0.00	13.58
98	a-Methyl styrene		----------NA----------				
99	1,2,4-Trimethylbenzene	3.564	2.912	18.3	95	0.00	13.65
		True	Calc.	% Drift			
100	Pentachloroethane	40.000	36.082	9.8	93	0.00	13.63
		AvgRF	CCRF	% Dev			
101	sec-Butylbenzene	4.053	3.302	18.5	96	0.00	13.76
102	4-Isopropyltoluene	3.512	2.884	17.9	95	0.00	13.90
103	1,3-Dichlorobenzene	2.263	1.795	20.7	94	0.00	14.02
104	1,2,3-Trimethylbenzene	3.644	2.981	18.2	96	0.00	14.11
105	1,4-Dichlorobenzene	2.415	1.914	20.7	95	0.00	14.11
106	n-Butylbenzene	1.862	1.537	17.5	94	0.00	14.33
		True	Calc.	% Drift			
107	Benzyl Chloride	40.000	35.634	10.9	94	0.00	14.35
		AvgRF	CCRF	% Dev			
108	1,2-Dichlorobenzene	2.196	1.744	20.6	94	0.00	14.54
		True	Calc.	% Drift			
109	1,2-Dibromo-3-Chloropropa	40.000	38.091	4.8	108	0.00	15.29
		AvgRF	CCRF	% Dev			
110	Hexachlorobutadiene	0.478	0.350	26.8	88	0.00	15.84
111	1,2,4-Trichlorobenzene	1.353	1.062	21.5	92	0.00	15.89
112	Naphthalene	3.377	2.853	15.5	99	0.00	16.18
113	1,2,3-Trichlorobenzene	1.255	0.985	21.5	94	0.00	16.35

(#) = Out of Range SPCC's out = 0 CCC's out = 0
O72894.D VO_12-08-2022.M Sun Dec 18 09:16:08 2022

Run Sequence Report

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V5E1617	**Method:** SW846 8260D	**Instrument ID:** GCMS5E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5E1617-BFB	5E35978.D	12/08/22 10:48	n/a	BFB Tune
V5E1617-IC1617	5E35978.D	12/08/22 10:48	n/a	Initial cal 1
V5E1617-IC1617	5E35979.D	12/08/22 11:33	n/a	Initial cal 2
V5E1617-IC1617	5E35980.D	12/08/22 11:56	n/a	Initial cal 3
V5E1617-IC1617	5E35981.D	12/08/22 12:19	n/a	Initial cal 4
V5E1617-ICC1617	5E35982.D	12/08/22 12:42	n/a	Initial cal 5
V5E1617-IC1617	5E35983.D	12/08/22 13:05	n/a	Initial cal 6
V5E1617-IC1617	5E35984.D	12/08/22 14:00	n/a	Initial cal 7
V5E1617-ICV1617	5E35986.D	12/08/22 15:25	n/a	Initial cal verification 5
V5E1617-CC1617	5E35986A.D	12/08/22 15:25	n/a	Continuing cal 5
V5E1617-ICV1617	5E35987.D	12/08/22 16:06	n/a	Initial cal verification 4
V5E1617-BS	5E35987A.D	12/08/22 16:06	n/a	Blank Spike
V5E1617-MB	5E35990.D	12/08/22 17:39	n/a	Method Blank
ZZZZZZ	5E35991.D	12/08/22 18:02	n/a	(unrelated sample)
ZZZZZZ	5E35992.D	12/08/22 18:25	n/a	(unrelated sample)
ZZZZZZ	5E35993.D	12/08/22 18:48	n/a	(unrelated sample)
ZZZZZZ	5E35994.D	12/08/22 19:11	n/a	(unrelated sample)
ZZZZZZ	5E35995.D	12/08/22 19:34	n/a	(unrelated sample)
ZZZZZZ	5E35996.D	12/08/22 19:58	n/a	(unrelated sample)
ZZZZZZ	5E35997.D	12/08/22 20:21	n/a	(unrelated sample)
V5E1617-ECC1617	5E35998.D	12/08/22 20:44	n/a	Ending cal 5

Run Sequence Report

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V5E1625	**Method:** SW846 8260D	**Instrument ID:** GCMS5E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5E1625-BFB	5E36145.D	12/16/22 10:42	n/a	BFB Tune
V5E1625-CC1617	5E36146.D	12/16/22 11:05	n/a	Continuing cal 5
V5E1625-BS	5E36147.D	12/16/22 11:28	n/a	Blank Spike
V5E1625-MB	5E36150.D	12/16/22 12:37	n/a	Method Blank
FC1292-8	5E36151.D	12/16/22 13:00	n/a	PBSA-TB-20221212
FC1292-5	5E36152.D	12/16/22 13:23	n/a	PBSA-MW0015-045.0-20221212
FC1292-6	5E36153.D	12/16/22 13:46	n/a	PBSA-MW0034-045.0-20221212
FC1292-7	5E36154.D	12/16/22 14:10	n/a	PBSA-MW0005-035.0-20221212
ZZZZZZ	5E36155.D	12/16/22 14:33	n/a	(unrelated sample)
ZZZZZZ	5E36156.D	12/16/22 14:56	n/a	(unrelated sample)
ZZZZZZ	5E36157.D	12/16/22 15:19	n/a	(unrelated sample)
FC1324-3	5E36158.D	12/16/22 15:42	n/a	(used for QC only; not part of job FC1292)
ZZZZZZ	5E36159.D	12/16/22 16:05	n/a	(unrelated sample)
ZZZZZZ	5E36160.D	12/16/22 16:28	n/a	(unrelated sample)
ZZZZZZ	5E36161.D	12/16/22 16:51	n/a	(unrelated sample)
ZZZZZZ	5E36162.D	12/16/22 17:14	n/a	(unrelated sample)
ZZZZZZ	5E36163.D	12/16/22 17:37	n/a	(unrelated sample)
ZZZZZZ	5E36164.D	12/16/22 18:01	n/a	(unrelated sample)
ZZZZZZ	5E36165.D	12/16/22 18:24	n/a	(unrelated sample)
ZZZZZZ	5E36166.D	12/16/22 18:47	n/a	(unrelated sample)
ZZZZZZ	5E36167.D	12/16/22 19:10	n/a	(unrelated sample)
ZZZZZZ	5E36168.D	12/16/22 19:33	n/a	(unrelated sample)
ZZZZZZ	5E36169.D	12/16/22 19:56	n/a	(unrelated sample)
ZZZZZZ	5E36170.D	12/16/22 20:19	n/a	(unrelated sample)
FC1324-3MS	5E36171.D	12/16/22 20:42	n/a	Matrix Spike
FC1324-3MSD	5E36172.D	12/16/22 21:05	n/a	Matrix Spike Duplicate
V5E1625-ECC1617	5E36173.D	12/16/22 21:28	n/a	Ending cal 5

Run Sequence Report

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: VO2866	**Method:** SW846 8260D	**Instrument ID:** GCMSO

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VO2866-BFB	O72889.D	12/08/22 09:31	n/a	BFB Tune
VO2866-IC2866	O72890.D	12/08/22 09:56	n/a	Initial cal 1
VO2866-IC2866	O72891.D	12/08/22 10:20	n/a	Initial cal 2
VO2866-IC2866	O72892.D	12/08/22 10:45	n/a	Initial cal 3
VO2866-IC2866	O72893.D	12/08/22 11:10	n/a	Initial cal 4
VO2866-ICC2866	O72894.D	12/08/22 11:35	n/a	Initial cal 5
VO2866-IC2866	O72895.D	12/08/22 12:00	n/a	Initial cal 6
VO2866-IC2866	O72896.D	12/08/22 12:25	n/a	Initial cal 7
VO2866-ICV2866	O72898.D	12/08/22 13:16	n/a	Initial cal verification 5
VO2866-CC2866	O72898A.D	12/08/22 13:16	n/a	Continuing cal 5
VO2866-ICV2866	O72899.D	12/08/22 13:59	n/a	Initial cal verification 4
VO2866-BS	O72899A.D	12/08/22 13:59	n/a	Blank Spike
VO2866-MB	O72901.D	12/08/22 15:38	n/a	Method Blank
ZZZZZZ	O72902.D	12/08/22 16:02	n/a	(unrelated sample)
ZZZZZZ	O72903.D	12/08/22 16:27	n/a	(unrelated sample)
ZZZZZZ	O72904.D	12/08/22 16:52	n/a	(unrelated sample)
ZZZZZZ	O72905.D	12/08/22 17:17	n/a	(unrelated sample)
ZZZZZZ	O72906.D	12/08/22 17:42	n/a	(unrelated sample)
ZZZZZZ	O72907.D	12/08/22 18:07	n/a	(unrelated sample)
ZZZZZZ	O72908.D	12/08/22 18:32	n/a	(unrelated sample)
ZZZZZZ	O72909.D	12/08/22 18:57	n/a	(unrelated sample)
ZZZZZZ	O72910.D	12/08/22 19:22	n/a	(unrelated sample)
ZZZZZZ	O72911.D	12/08/22 19:46	n/a	(unrelated sample)
ZZZZZZ	O72912.D	12/08/22 20:11	n/a	(unrelated sample)
ZZZZZZ	O72913.D	12/08/22 20:36	n/a	(unrelated sample)
ZZZZZZ	O72914.D	12/08/22 21:01	n/a	(unrelated sample)
VO2866-ECC2866	O72915.D	12/08/22 21:26	n/a	Ending cal 5

Run Sequence Report

Job Number: FC1292
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: VO2871	**Method:** SW846 8260D	**Instrument ID:** GCMSO

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VO2871-BFB	O73051.D	12/16/22 09:40	n/a	BFB Tune
VO2871-CC2866	O73051.D	12/16/22 09:40	n/a	Continuing cal 5
VO2871-BS	O73052.D	12/16/22 10:05	n/a	Blank Spike
VO2871-MB	O73054.D	12/16/22 10:55	n/a	Method Blank
FC1292-1	O73055.D	12/16/22 11:20	n/a	PBSA-MW0036-045.0-20221212
FC1292-2	O73056.D	12/16/22 11:45	n/a	PBSA-MW0035-045.0-20221212
FC1292-3	O73057.D	12/16/22 12:10	n/a	PBSA-MW0037-045.0-20221212
FC1292-4	O73058.D	12/16/22 12:35	n/a	PBSA-MW0031-045.0-20221212
ZZZZZZ	O73059.D	12/16/22 13:00	n/a	(unrelated sample)
ZZZZZZ	O73060.D	12/16/22 13:24	n/a	(unrelated sample)
ZZZZZZ	O73061.D	12/16/22 13:49	n/a	(unrelated sample)
ZZZZZZ	O73062.D	12/16/22 14:14	n/a	(unrelated sample)
ZZZZZZ	O73063.D	12/16/22 14:39	n/a	(unrelated sample)
ZZZZZZ	O73064.D	12/16/22 15:04	n/a	(unrelated sample)
ZZZZZZ	O73065.D	12/16/22 15:29	n/a	(unrelated sample)
ZZZZZZ	O73066.D	12/16/22 15:53	n/a	(unrelated sample)
ZZZZZZ	O73067.D	12/16/22 16:18	n/a	(unrelated sample)
ZZZZZZ	O73068.D	12/16/22 16:43	n/a	(unrelated sample)
ZZZZZZ	O73069.D	12/16/22 17:08	n/a	(unrelated sample)
ZZZZZZ	O73070.D	12/16/22 17:33	n/a	(unrelated sample)
ZZZZZZ	O73071.D	12/16/22 17:58	n/a	(unrelated sample)
ZZZZZZ	O73072.D	12/16/22 18:23	n/a	(unrelated sample)
FC1329-17	O73073.D	12/16/22 18:47	n/a	(used for QC only; not part of job FC1292)
ZZZZZZ	O73074.D	12/16/22 19:12	n/a	(unrelated sample)
FC1329-17MS	O73075.D	12/16/22 19:37	n/a	Matrix Spike
FC1329-17MSD	O73076.D	12/16/22 20:02	n/a	Matrix Spike Duplicate
VO2871-ECC2866	O73077.D	12/16/22 20:27	n/a	Ending cal 5

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

e-Hardcopy 2.0
Automated Report

Technical Report for

Hydrogeologic, Inc.

FSRA-FDSA/PSBA NS1002; KSC, FL

NS1002.05.08

SGS Job Number: FC1584

Sampling Date: 12/22/22



Report to:

HGL, Inc
2405 N Courtenay Pkwy Suite 203
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ATTN: Denise Rivers

Total number of pages in report: **171**

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.

Norm Farmer
Technical Director

Client Service contact: Ariel Hartney 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AL, AK, AR, CT, IA, KY, MA, MI. MS, ND, NH, NV, OK, OR, IL, UT, VT, WA, WI, WV

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SGS North America Inc.

Sample Summary

Hydrogeologic, Inc.

Job No: FC1584

FSRA-FDSA/PSBA NS1002; KSC, FL
Project No: NS1002.05.08

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC1584-1	12/22/22	08:55	JB	12/23/22	AQ	Ground Water	FDSA-MW0048-015.0-20221222
FC1584-2	12/22/22	09:37	JB	12/23/22	AQ	Ground Water	FDSA-MW0045-025.0-20221222
FC1584-3	12/22/22	10:16	JB	12/23/22	AQ	Ground Water	FDSA-MW0051-025.0-20221222
FC1584-4	12/22/22	11:00	JB	12/23/22	AQ	Ground Water	FDSA-MW0061-007.0-20221222
FC1584-5	12/22/22	11:39	JB	12/23/22	AQ	Ground Water	FDSA-MW0039-045.0-20221222
FC1584-6	12/22/22	12:26	JB	12/23/22	AQ	Ground Water	FDSA-MW0038-045.0-20221222
FC1584-7	12/22/22	08:00	JB	12/23/22	AQ	Trip Blank Water	FDSA-TB001-000.0-20221222

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Hydrogeologic, Inc. **Job No:** FC1584

Site: FSRA-FDSA/PSBA NS1002; KSC, FL **Report Date:** 12/29/2022 7:53:29 PM

On 12/23/2022, 6 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 1.4 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC1584 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.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V5E1633

Sample(s) FC1588-1MS, FC1588-1MSD were used as the QC samples indicated.

FC1584-1: Sample was treated with an anti-foaming agent.

FC1584-2: Sample was treated with an anti-foaming agent.

FC1584-3: Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent.

FC1584-4: Sample was treated with an anti-foaming agent.

FC1584-5: Sample was treated with an anti-foaming agent.

FC1584-6: Sample was treated with an anti-foaming agent.

SGS North America Inc. - Orlando 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.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

_____

Kim Benham, Client Services *(Signature on File)*

Summary of Hits

Job Number: FC1584
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/22/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FC1584-1	**FDSA-MW0048-015.0-20221222**					
Trichloroethylene [a]		7.1	1.0	0.50	ug/l	SW846 8260D
FC1584-2	**FDSA-MW0045-025.0-20221222**					
cis-1,2-Dichloroethylene [a]		14.1	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [a]		1.0	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [a]		5.3	1.0	0.50	ug/l	SW846 8260D
FC1584-3	**FDSA-MW0051-025.0-20221222**					
cis-1,2-Dichloroethylene [b]		11.5	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [b]		1.3	1.0	0.50	ug/l	SW846 8260D
FC1584-4	**FDSA-MW0061-007.0-20221222**					
cis-1,2-Dichloroethylene [a]		24.9	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [a]		2.6	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [a]		5.8	1.0	0.50	ug/l	SW846 8260D
FC1584-5	**FDSA-MW0039-045.0-20221222**					
cis-1,2-Dichloroethylene [a]		24.3	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [a]		1.1	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [a]		1.6	1.0	0.50	ug/l	SW846 8260D
FC1584-6	**FDSA-MW0038-045.0-20221222**					
cis-1,2-Dichloroethylene [a]		37.0	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [a]		1.2	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [a]		1.6	1.0	0.50	ug/l	SW846 8260D
FC1584-7	**FDSA-TB001-000.0-20221222**					

No hits reported in this sample.

(a) Sample was treated with an anti-foaming agent.
(b) Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent.

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0048-015.0-20221222		
Lab Sample ID:	FC1584-1	**Date Sampled:**	12/22/22
Matrix:	AQ - Ground Water	**Date Received:**	12/23/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5E36309.D	1	12/27/22 15:22	JL	n/a	n/a	V5E1633
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	7.1	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0045-025.0-20221222		
Lab Sample ID:	FC1584-2	**Date Sampled:**	12/22/22
Matrix:	AQ - Ground Water	**Date Received:**	12/23/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5E36310.D	1	12/27/22 15:46	JL	n/a	n/a	V5E1633
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	14.1	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.0	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	5.3	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0051-025.0-20221222		
Lab Sample ID:	FC1584-3	**Date Sampled:**	12/22/22
Matrix:	AQ - Ground Water	**Date Received:**	12/23/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5E36311.D	1	12/27/22 16:09	JL	n/a	n/a	V5E1633
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	11.5	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	1.3	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0061-007.0-20221222		
Lab Sample ID:	FC1584-4	**Date Sampled:**	12/22/22
Matrix:	AQ - Ground Water	**Date Received:**	12/23/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5E36312.D	1	12/27/22 16:32	JL	n/a	n/a	V5E1633
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	24.9	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	2.6	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	5.8	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0039-045.0-20221222		
Lab Sample ID:	FC1584-5	**Date Sampled:**	12/22/22
Matrix:	AQ - Ground Water	**Date Received:**	12/23/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5E36313.D	1	12/27/22 16:55	JL	n/a	n/a	V5E1633
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	24.3	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.1	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	1.6	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0038-045.0-20221222		
Lab Sample ID:	FC1584-6	**Date Sampled:**	12/22/22
Matrix:	AQ - Ground Water	**Date Received:**	12/23/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5E36314.D	1	12/27/22 17:18	JL	n/a	n/a	V5E1633
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	37.0	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.2	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	1.6	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-TB001-000.0-20221222		
Lab Sample ID:	FC1584-7	**Date Sampled:**	12/22/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/23/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E36308.D	1	12/27/22 14:59	JL	n/a	n/a	V5E1633
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

FC1584

SGS North America Inc - Orlando
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : PAGE 1 OF 1

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: HGL, Inc.
Address: 2405 N. Courtney Parkway, STE 203
City: Merrit Island State: FL Zip:32937
Project Contact: Denise Rivers Email:drivers@hgl.com
Phone #:910-233-8460
Sampler(s) Name(s) (Printed)
Sampler 1: Jason Bublitz Sampler 2: William Duttenhaver

Project Information

Project Name: FSRA LTM Sampling
Street Kennedy Space Center
City Merritt Island State FL
Project # NS1002.05.08
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	8260STD VOCs - cDCE, tDCE, VC, TCE	LAB USE ONLY
1	FDSA-MW0048-015.0-20221222	12/22/22	0855	JB	GW	3			X							X	
2	FDSA-MW0045-025.0-20221222	12/22/22	0937	JB	GW	3			X							X	
3	FDSA-MW0051-025.0-20221222	12/22/22	1016	JB	GW	3			X							X	
4	FDSA-MW0061-007.0-20221222	12/22/22	1100	JB	GW	3			X							X	
5	FDSA-MW0039-045.0-20221222	12/22/22	1139	JB	GW	3			X							X	
6	FDSA-MW0038-045.0-20221222	12/22/22	1226	JB	GW	3			X							X	
7	FDSA-TB0001-000.0-20221222	12/22/22	0800	JB	GW	3			X							X	

Turnaround Time (Business days)

X 10 Day (Business) Approved By: / Date:
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

INITIAL ASSESSMENT ZB
LABEL VERIFICATION
1615 12/23/22

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1		12/23/22 10:45	2	3	12/23/22 16:16	4 ZB 12/24/22
	Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5			6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 1.2 IR1

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SGS COC ORL_20221222 Rev 031318

FC1584: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: FC1584 **Client:** HGL, INC. **Project:** FSRA LTM SAMPLING

Date / Time Received: 12/23/2022 4:15:00 PM **Delivery Method:** COURIER **Airbill #'s:**

Therm ID: IR 1; **Therm CF:** 0.2; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (1.2);

Cooler Temps (Corrected) °C: Cooler 1: (1.4);

Cooler Information	Y	N
1. Custody Seals Present	☑	☐
2. Custody Seals Intact	☑	☐
3. Temp criteria achieved	☑	☐
4. Cooler temp verification	IR Gun	
5. Cooler media	Ice (Bag)	

Trip Blank Information	Y	N	N/A
1. Trip Blank present / cooler	☑	☐	☐
2. Trip Blank listed on COC	☑	☐	☐

	W	S	N/A
3. Type Of TB Received	☑	☐	☐

Sample Information	Y	N	N/A
1. Sample labels present on bottles	☑	☐	
2. Samples preserved properly	☑	☐	
3. Sufficient volume/containers recvd for analysis:	☑	☐	
4. Condition of sample	Intact		
5. Sample recvd within HT	☑	☐	
6. Dates/Times/IDs on COC match Sample Label	☑	☐	
7. VOCs have headspace	☑	☐	☐
8. Bottles received for unspecified tests	☐	☑	
9. Compositing instructions clear	☐	☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐	☐	☑
11. % Solids Jar received?	☐	☐	☑
12. Residual Chlorine Present?	☐	☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments SAMPLE #3 RECEIVED WITH 2 VIALS CONTAINING HEADSPACE.
SAMPLE #6 RECEIVED WITH ALL VIALS CONTAINING HEADSPACE.

SM001
Rev. Date 05/24/17

Technician: ZANEB Date: 12/23/2022 4:15:00 P Reviewer: _____ Date: _____

FC1584: Chain of Custody
Page 2 of 2

QC Evaluation: DOD QSM5.x Limits

Job Number: FC1584
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/22/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V5E1633	SW846 8260D						
V5E1633-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	106	%	78-123
V5E1633-BS	156-60-5	trans-1,2-Dichloroethylene	BSP	REC	103	%	75-124
V5E1633-BS	79-01-6	Trichloroethylene	BSP	REC	104	%	79-123
V5E1633-BS	75-01-4	Vinyl Chloride	BSP	REC	112	%	58-137
V5E1633-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	104	%	80-119
V5E1633-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	104	%	81-118
V5E1633-BS	2037-26-5	Toluene-D8	BSP	SURR	93	%	89-112
V5E1633-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	102	%	85-114
FC1588-1MS*	156-59-2	cis-1,2-Dichloroethylene	MS	REC	118	%	78-123
FC1588-1MS*	156-60-5	trans-1,2-Dichloroethylene	MS	REC	116	%	75-124
FC1588-1MS*	79-01-6	Trichloroethylene	MS	REC	113	%	79-123
FC1588-1MS*	75-01-4	Vinyl Chloride	MS	REC	127	%	58-137
FC1588-1MS*	1868-53-7	Dibromofluoromethane	MS	SURR	103	%	80-119
FC1588-1MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	101	%	81-118
FC1588-1MS*	2037-26-5	Toluene-D8	MS	SURR	93	%	89-112
FC1588-1MS*	460-00-4	4-Bromofluorobenzene	MS	SURR	97	%	85-114
FC1588-1MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	113	%	78-123
FC1588-1MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	4	%	20
FC1588-1MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	REC	113	%	75-124
FC1588-1MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	RPD	3	%	20
FC1588-1MSD*	79-01-6	Trichloroethylene	MSD	REC	110	%	79-123
FC1588-1MSD*	79-01-6	Trichloroethylene	MSD	RPD	2	%	20
FC1588-1MSD*	75-01-4	Vinyl Chloride	MSD	REC	124	%	58-137
FC1588-1MSD*	75-01-4	Vinyl Chloride	MSD	RPD	3	%	20
FC1588-1MSD*	1868-53-7	Dibromofluoromethane	MSD	SURR	106	%	80-119
FC1588-1MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	101	%	81-118
FC1588-1MSD*	2037-26-5	Toluene-D8	MSD	SURR	93	%	89-112
FC1588-1MSD*	460-00-4	4-Bromofluorobenzene	MSD	SURR	98	%	85-114
V5E1633-MB	1868-53-7	Dibromofluoromethane	MB	SURR	102	%	80-119
V5E1633-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	101	%	81-118
V5E1633-MB	2037-26-5	Toluene-D8	MB	SURR	96	%	89-112
V5E1633-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	103	%	85-114
FC1584-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	106	%	80-119
FC1584-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	102	%	81-118
FC1584-1	2037-26-5	Toluene-D8	SAMP	SURR	96	%	89-112
FC1584-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	101	%	85-114
FC1584-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	102	%	80-119
FC1584-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	101	%	81-118
FC1584-2	2037-26-5	Toluene-D8	SAMP	SURR	95	%	89-112
FC1584-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	103	%	85-114
FC1584-3	1868-53-7	Dibromofluoromethane	SAMP	SURR	104	%	80-119
FC1584-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	101	%	81-118

* Sample used for QC is not from job FC1584

QC Evaluation: DOD QSM5.x Limits

Job Number: FC1584
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 12/22/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC1584-3	2037-26-5	Toluene-D8	SAMP	SURR	95	%	89-112
FC1584-3	460-00-4	4-Bromofluorobenzene	SAMP	SURR	103	%	85-114
FC1584-4	1868-53-7	Dibromofluoromethane	SAMP	SURR	103	%	80-119
FC1584-4	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	101	%	81-118
FC1584-4	2037-26-5	Toluene-D8	SAMP	SURR	95	%	89-112
FC1584-4	460-00-4	4-Bromofluorobenzene	SAMP	SURR	103	%	85-114
FC1584-5	1868-53-7	Dibromofluoromethane	SAMP	SURR	103	%	80-119
FC1584-5	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	103	%	81-118
FC1584-5	2037-26-5	Toluene-D8	SAMP	SURR	95	%	89-112
FC1584-5	460-00-4	4-Bromofluorobenzene	SAMP	SURR	102	%	85-114
FC1584-6	1868-53-7	Dibromofluoromethane	SAMP	SURR	104	%	80-119
FC1584-6	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	102	%	81-118
FC1584-6	2037-26-5	Toluene-D8	SAMP	SURR	96	%	89-112
FC1584-6	460-00-4	4-Bromofluorobenzene	SAMP	SURR	101	%	85-114
FC1584-7	1868-53-7	Dibromofluoromethane	SAMP	SURR	106	%	80-119
FC1584-7	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	101	%	81-118
FC1584-7	2037-26-5	Toluene-D8	SAMP	SURR	95	%	89-112
FC1584-7	460-00-4	4-Bromofluorobenzene	SAMP	SURR	103	%	85-114

* Sample used for QC is not from job FC1584

MS Volatiles

6

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: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1633-MB	5E36301.D	1	12/27/22	JL	n/a	n/a	V5E1633

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

FC1584-1, FC1584-2, FC1584-3, FC1584-4, FC1584-5, FC1584-6, FC1584-7

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

Blank Spike Summary

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1633-BS	5E36298.D	1	12/27/22	JL	n/a	n/a	V5E1633

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

FC1584-1, FC1584-2, FC1584-3, FC1584-4, FC1584-5, FC1584-6, FC1584-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	26.4	106	78-120
156-60-5	trans-1,2-Dichloroethylene	25	25.8	103	76-127
79-01-6	Trichloroethylene	25	25.9	104	81-126
75-01-4	Vinyl Chloride	25	27.9	112	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	93%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC1588-1MS	5E36320.D	5	12/27/22	JL	n/a	n/a	V5E1633
FC1588-1MSD	5E36321.D	5	12/27/22	JL	n/a	n/a	V5E1633
FC1588-1 [a]	5E36315.D	1	12/27/22	JL	n/a	n/a	V5E1633

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

FC1584-1, FC1584-2, FC1584-3, FC1584-4, FC1584-5, FC1584-6, FC1584-7

CAS No.	Compound	FC1588-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	ND		125	147	118	125	141	113	4	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		125	145	116	125	141	113	3	76-127/17
79-01-6	Trichloroethylene	ND		125	141	113	125	138	110	2	81-126/15
75-01-4	Vinyl Chloride	ND		125	159	127	125	155	124	3	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FC1588-1	Limits
1868-53-7	Dibromofluoromethane	103%	106%	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	101%	79-125%
2037-26-5	Toluene-D8	93%	93%	94%	85-112%
460-00-4	4-Bromofluorobenzene	97%	98%	103%	83-118%

(a) Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-BFB
Lab File ID: 5E35978.D
Instrument ID: GCMS5E
Injection Date: 12/08/22
Injection Time: 10:48

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	13727	25.3		Pass
75	30.0 - 60.0% of mass 95	29731	54.8		Pass
95	Base peak, 100% relative abundance	54288	100.0		Pass
96	5.0 - 9.0% of mass 95	3641	6.71		Pass
173	Less than 2.0% of mass 174	617	1.14	(1.28) [a]	Pass
174	50.0 - 100.0% of mass 95	48392	89.1		Pass
175	5.0 - 9.0% of mass 174	3371	6.21	(6.97) [a]	Pass
176	95.0 - 101.0% of mass 174	46675	86.0	(96.5) [a]	Pass
177	5.0 - 9.0% of mass 176	3157	5.82	(6.76) [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
V5E1617-IC1617	5E35978.D	12/08/22	10:48	00:00	Initial cal 1
V5E1617-IC1617	5E35979.D	12/08/22	11:33	00:45	Initial cal 2
V5E1617-IC1617	5E35980.D	12/08/22	11:56	01:08	Initial cal 3
V5E1617-IC1617	5E35981.D	12/08/22	12:19	01:31	Initial cal 4
V5E1617-ICC1617	5E35982.D	12/08/22	12:42	01:54	Initial cal 5
V5E1617-IC1617	5E35983.D	12/08/22	13:05	02:17	Initial cal 6
V5E1617-IC1617	5E35984.D	12/08/22	14:00	03:12	Initial cal 7
V5E1617-ICV1617	5E35986.D	12/08/22	15:25	04:37	Initial cal verification 5
V5E1617-CC1617	5E35986A.D	12/08/22	15:25	04:37	Continuing cal 5
V5E1617-ICV1617	5E35987.D	12/08/22	16:06	05:18	Initial cal verification 4
V5E1617-BS	5E35987A.D	12/08/22	16:06	05:18	Blank Spike
V5E1617-MB	5E35990.D	12/08/22	17:39	06:51	Method Blank
ZZZZZZ	5E35991.D	12/08/22	18:02	07:14	(unrelated sample)
ZZZZZZ	5E35992.D	12/08/22	18:25	07:37	(unrelated sample)
ZZZZZZ	5E35993.D	12/08/22	18:48	08:00	(unrelated sample)
ZZZZZZ	5E35994.D	12/08/22	19:11	08:23	(unrelated sample)
ZZZZZZ	5E35995.D	12/08/22	19:34	08:46	(unrelated sample)
ZZZZZZ	5E35996.D	12/08/22	19:58	09:10	(unrelated sample)
ZZZZZZ	5E35997.D	12/08/22	20:21	09:33	(unrelated sample)
V5E1617-ECC1617	5E35998.D	12/08/22	20:44	09:56	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1632-BFB
Lab File ID: 5E36297.D
Instrument ID: GCMS5E
Injection Date: 12/27/22
Injection Time: 10:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	17232	25.6		Pass
75	30.0 - 60.0% of mass 95	36784	54.6		Pass
95	Base peak, 100% relative abundance	67320	100.0		Pass
96	5.0 - 9.0% of mass 95	4409	6.55		Pass
173	Less than 2.0% of mass 174	449	0.67	(0.81) [a]	Pass
174	50.0 - 100.0% of mass 95	55661	82.7		Pass
175	5.0 - 9.0% of mass 174	4503	6.69	(8.09) [a]	Pass
176	95.0 - 101.0% of mass 174	54661	81.2	(98.2) [a]	Pass
177	5.0 - 9.0% of mass 176	3486	5.18	(6.38) [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
V5E1632-CC1617	5E36297.D	12/27/22	10:45	00:00	Continuing cal 5
V5E1633-BS	5E36298.D	12/27/22	11:08	00:23	Blank Spike
V5E1632-BS	5E36298.D	12/27/22	11:08	00:23	Blank Spike
V5E1633-MB	5E36301.D	12/27/22	12:18	01:33	Method Blank
V5E1632-MB	5E36301.D	12/27/22	12:18	01:33	Method Blank
OP94669-LB	5E36302.D	12/27/22	12:41	01:56	Leachate Blank
OP94572-LB	5E36303.D	12/27/22	13:04	02:19	Leachate Blank
FC1455-1L	5E36304.D	12/27/22	13:27	02:42	(used for QC only; not part of job FC1584)
ZZZZZZ	5E36305.D	12/27/22	13:50	03:05	(unrelated sample)
ZZZZZZ	5E36306.D	12/27/22	14:13	03:28	(unrelated sample)
ZZZZZZ	5E36307.D	12/27/22	14:36	03:51	(unrelated sample)
FC1584-7	5E36308.D	12/27/22	14:59	04:14	FDSA-TB001-000.0-20221222
FC1584-1	5E36309.D	12/27/22	15:22	04:37	FDSA-MW0048-015.0-20221222
FC1584-2	5E36310.D	12/27/22	15:46	05:01	FDSA-MW0045-025.0-20221222
FC1584-3	5E36311.D	12/27/22	16:09	05:24	FDSA-MW0051-025.0-20221222
FC1584-4	5E36312.D	12/27/22	16:32	05:47	FDSA-MW0061-007.0-20221222
FC1584-5	5E36313.D	12/27/22	16:55	06:10	FDSA-MW0039-045.0-20221222
FC1584-6	5E36314.D	12/27/22	17:18	06:33	FDSA-MW0038-045.0-20221222
FC1588-1	5E36315.D	12/27/22	17:41	06:56	(used for QC only; not part of job FC1584)
ZZZZZZ	5E36316.D	12/27/22	18:04	07:19	(unrelated sample)
ZZZZZZ	5E36317.D	12/27/22	18:27	07:42	(unrelated sample)
FC1455-1LMS	5E36318.D	12/27/22	18:50	08:05	Matrix Spike
FC1455-1LMSD	5E36319.D	12/27/22	19:13	08:28	Matrix Spike Duplicate
FC1588-1MS	5E36320.D	12/27/22	19:36	08:51	Matrix Spike

Instrument Performance Check (BFB)

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample:	V5E1632-BFB	**Injection Date:**	12/27/22
Lab File ID:	5E36297.D	**Injection Time:**	10:45
Instrument ID:	GCMS5E		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FC1588-1MSD	5E36321.D	12/27/22	19:59	09:14	Matrix Spike Duplicate
V5E1632-ECC1617	5E36322.D	12/27/22	20:22	09:37	Ending cal 5

Internal Standard Area Summary

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Check Std:	V5E1632-CC1617	**Injection Date:**	12/27/22
Lab File ID:	5E36297.D	**Injection Time:**	10:45
Instrument ID:	GCMS5E	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	367847	8.95	264640	12.11	129127	14.47
Check Std [b]	350228	8.95	278064	12.11	143649	14.47
Upper Limit [c]	700456	9.12	556128	12.28	287298	14.64
Lower Limit [d]	175114	8.78	139032	11.94	71825	14.30

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5E1633-BS	338471	8.95	271134	12.11	134923	14.47
V5E1632-BS	338471	8.95	271134	12.11	134923	14.47
V5E1632-MB	303042	8.95	237919	12.11	112797	14.47
V5E1633-MB	303042	8.95	237919	12.11	112797	14.47
OP94669-LB	288854	8.95	223731	12.11	107837	14.47
OP94572-LB	280365	8.95	222430	12.11	107400	14.47
FC1455-1L	284956	8.95	225165	12.11	110053	14.47
ZZZZZZ	282304	8.95	225891	12.11	110885	14.47
ZZZZZZ	273519	8.95	218876	12.11	108267	14.47
ZZZZZZ	273789	8.95	220092	12.11	107134	14.47
FC1584-7	277851	8.95	223899	12.11	107395	14.47
FC1584-1 [e]	281126	8.95	222097	12.11	110600	14.47
FC1584-2 [e]	283544	8.95	223968	12.11	109096	14.47
FC1584-3 [f]	275550	8.95	218496	12.11	107176	14.47
FC1584-4 [e]	271727	8.95	217365	12.11	108299	14.47
FC1584-5 [e]	274513	8.95	220297	12.11	106507	14.47
FC1584-6 [e]	276370	8.95	218901	12.11	108191	14.47
FC1588-1	279020	8.95	224775	12.11	120012	14.47
ZZZZZZ	291828	8.95	232156	12.11	118958	14.47
ZZZZZZ	289885	8.95	234707	12.11	116677	14.47
FC1455-1LMS	321138	8.95	256028	12.11	128940	14.47
FC1455-1LMSD	313147	8.95	252252	12.11	129032	14.47
FC1588-1MS	313008	8.95	252450	12.11	128562	14.47
FC1588-1MSD	317038	8.95	257943	12.11	132047	14.47
V5E1632-ECC1617	329722	8.95	270034	12.11	139122	14.47

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: V5E1617-ICC1617 5E35982.D 12/08/22 12:42
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.

Internal Standard Area Summary

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Check Std:	V5E1632-CC1617	**Injection Date:**	12/27/22
Lab File ID:	5E36297.D	**Injection Time:**	10:45
Instrument ID:	GCMS5E	**Method:**	SW846 8260D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT

(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
(e) Sample was treated with an anti-foaming agent.
(f) Sample vial(s) contained bubbles greater than 6mm. Sample was treated with an anti-foaming agent.

Surrogate Recovery Summary

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FC1584-1	5E36309.D	106	102	96	101
FC1584-2	5E36310.D	102	101	95	103
FC1584-3	5E36311.D	104	101	95	103
FC1584-4	5E36312.D	103	101	95	103
FC1584-5	5E36313.D	103	103	95	102
FC1584-6	5E36314.D	104	102	96	101
FC1584-7	5E36308.D	106	101	95	103
FC1588-1MS	5E36320.D	103	101	93	97
FC1588-1MSD	5E36321.D	106	101	93	98
V5E1633-BS	5E36298.D	104	104	93	102
V5E1633-MB	5E36301.D	102	101	96	103

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-118%
S2 = 1,2-Dichloroethane-D4	79-125%
S3 = Toluene-D8	85-112%
S4 = 4-Bromofluorobenzene	83-118%

Initial Calibration Summary

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICC1617
Lab FileID: 5E35982.D

Response Factor Report MSVOA20

Method : C:\msdchem\1\met...pIX12-08-2022_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

Calibration Files
1 =5E35978.D 2 =5E35979.D 3 =5E35980.D 4 =5E35981.D
5 =5E35982.D 6 =5E35983.D 7 =5E35984.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.331	0.277	0.321	0.304	0.286	0.316	0.302	0.305	6.29
3)P Chloromethane	0.277	0.279	0.315	0.287	0.284	0.296	0.311	0.293	5.20
4)C Vinyl Chloride	0.288	0.298	0.338	0.305	0.304	0.317	0.325	0.311	5.56
5) 1,3-Butadiene	0.210	0.209	0.205	0.200	0.185	0.208	0.175	0.199	6.80
6) Bromomethane	0.140	0.134	0.162	0.162	0.164	0.184	0.194	0.163	13.12
7) Chloroethane	0.191	0.185	0.220	0.224	0.255	0.452	0.524	0.293	46.73
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9954									
Response Ratio = 0.00000 + 0.13976 *A + 0.19750 *A^2									
8) Trichlorofluorome	0.364	0.341	0.394	0.380	0.371	0.395	0.386	0.376	5.06
9) Ethyl Ether	0.189	0.232	0.205	0.230	0.228	0.240	0.224	0.221	7.98
10) Ethanol			0.000	0.002	0.002	0.002	0.003	0.002	46.39
11) 1,2-Dichlorotrifl	0.266	0.318	0.306	0.334	0.319	0.349	0.319	0.316	8.20
12)C 1,1-Dichloroethen	0.347	0.392	0.371	0.416	0.403	0.428	0.396	0.393	6.95
13) Freon 113	0.245	0.273	0.250	0.275	0.262	0.295	0.256	0.265	6.50
14) Carbon Disulfide	0.751	0.779	0.691	0.751	0.723	0.770	0.711	0.740	4.34
15) Iodomethane	0.193	0.285	0.326	0.376	0.384	0.392	0.382	0.334	21.90
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9986									
Response Ratio = 0.00000 + 0.35603 *A + 0.01713 *A^2									
16) Acrolein	0.036	0.043	0.047	0.052	0.052	0.054	0.049	0.048	13.24
17) Allyl chloride	0.273	0.258	0.265	0.283	0.266	0.283	0.267	0.271	3.48
18) Methylene Chlorid	0.563	0.431	0.365	0.367	0.360	0.359	0.332	0.397	19.95
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9991									
Response Ratio = 0.00000 + 0.39060 *A + -0.02825 *A^2									
19) Acetone	0.112	0.071	0.078	0.082	0.072	0.074	0.070	0.080	18.38
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9981									
Response Ratio = 0.00000 + 0.08034 *A + -0.00105 *A^2									
20) Methyl acetate	0.126	0.138	0.148	0.162	0.166	0.170	0.159	0.153	10.60
21) trans-1,2-Dichlor	0.323	0.363	0.336	0.385	0.372	0.400	0.377	0.365	7.38
22) Hexane	0.183	0.215	0.220	0.239	0.234	0.222	0.221	0.219	8.16
23) Methyl Tert Butyl	0.614	0.717	0.700	0.773	0.757	0.798	0.740	0.728	8.27
24) Acetonitrile	0.027	0.021	0.025	0.026	0.024	0.025	0.025	0.025	7.24
25) Di-isopropyl ethe	0.630	0.686	0.669	0.728	0.724	0.750	0.707	0.699	5.81
26) Chloroprene	0.321	0.317	0.327	0.335	0.322	0.348	0.322	0.328	3.23
27)P 1,1-Dichloroethan	0.468	0.467	0.448	0.504	0.496	0.519	0.487	0.484	5.07
28) Acrylonitrile	0.065	0.088	0.103	0.091	0.096	0.100	0.098	0.091	14.16
29) ETBE	0.689	0.767	0.769	0.862	0.842	0.885	0.844	0.808	8.56
30) Tert Butyl Alcoho	0.024	0.028	0.037	0.039	0.038	0.038	0.032	0.034	17.30
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9961									
Response Ratio = 0.00000 + 0.03967 *A + -0.00030 *A^2									
31) Vinyl acetate	0.367	0.450	0.474	0.467	0.498	0.537	0.536	0.476	12.26

Initial Calibration Summary

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICC1617
Lab FileID: 5E35982.D

32)	cis-1,2-Dichloroe	0.230	0.264	0.263	0.275	0.275	0.291	0.271	0.267	7.01
33)	2,2-Dichloropropa	0.340	0.395	0.373	0.394	0.396	0.418	0.390	0.387	6.29
34)	Bromochloromethan	0.093	0.134	0.123	0.147	0.139	0.143	0.130	0.130	13.97
35)	Cyclohexane	0.374	0.420	0.423	0.449	0.426	0.484	0.423	0.429	7.72
36)C	Chloroform	0.430	0.497	0.438	0.487	0.480	0.500	0.464	0.471	5.91
37)	Ethyl acetate	0.203	0.215	0.246	0.232	0.249	0.258	0.241	0.235	8.39
38)	Tetrahydrofuran		0.069	0.079	0.080	0.071	0.075	0.065	0.073	8.07
39)S	Dibromofluorometh	0.277	0.276	0.281	0.271	0.275	0.278	0.281	0.277	1.23
40)	Carbon Tetrachlor	0.285	0.353	0.321	0.359	0.353	0.385	0.348	0.343	9.27
41)	1,1,1-Trichloroet	0.336	0.391	0.383	0.412	0.403	0.427	0.393	0.392	7.33
42)	2-Butanone	0.135	0.102	0.114	0.128	0.117	0.122	0.107	0.118	9.70
43)	1,1-Dichloroprope	0.316	0.348	0.338	0.369	0.360	0.385	0.357	0.353	6.29
44)	tert-Butyl format	0.097	0.099	0.105	0.107	0.109			0.103	4.96
45)	Propionitrile	0.028	0.035	0.041	0.043	0.044	0.046	0.042	0.040	15.30

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9980
Response Ratio = 0.00000 + 0.04328 *A + -0.00001 *A^2

46)	Methacrylonitrile	0.143	0.124	0.140	0.150	0.149	0.157	0.148	0.145	7.22
47)	Benzene	0.963	1.017	0.962	1.051	1.030	1.074	1.002	1.014	4.17
48)	TAME	0.583	0.695	0.688	0.763	0.763	0.808	0.751	0.722	10.26
49)S	1,2-Dichloroethan	0.312	0.316	0.322	0.317	0.320	0.319	0.321	0.318	1.03
50)	1,2-Dichloroethan	0.370	0.365	0.364	0.407	0.397	0.412	0.380	0.385	5.25
51)	tert Amyl alcohol	0.013	0.020	0.023	0.028	0.027	0.028	0.023	0.023	23.66

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9944
Response Ratio = 0.00000 + 0.02728 *A + -0.00014 *A^2

52)	Trichloroethene	0.240	0.268	0.257	0.285	0.278	0.294	0.277	0.271	6.62
53)	Methylcyclohexane	0.372	0.384	0.400	0.458	0.441	0.507	0.433	0.428	10.94
54)	Dibromomethane	0.141	0.176	0.176	0.190	0.188	0.196	0.183	0.179	10.01
55)C	1,2-Dichloropropa	0.180	0.271	0.277	0.291	0.286	0.301	0.279	0.269	15.03

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9989
Response Ratio = 0.00000 + 0.28965 *A + -0.00217 *A^2

56)	Bromodichlorometh	0.281	0.323	0.321	0.365	0.366	0.379	0.354	0.341	10.12
57)	Methyl methacryla	0.113	0.161	0.190	0.211	0.211	0.220	0.199	0.186	20.19

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9973
Response Ratio = 0.00000 + 0.20724 *A + -0.00060 *A^2

58)	1,4-Dioxane		0.002	0.002	0.003	0.003	0.003	0.003	0.002	12.74

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9985
Response Ratio = 0.00000 + 0.00235 *A + 0.00001 *A^2

59)	2-Chloroethyl vin	0.128	0.143	0.165	0.167	0.171	0.178	0.146	0.157	11.51
60)	cis-1,3-Dichlorop	0.287	0.385	0.354	0.411	0.412	0.438	0.408	0.385	13.12
61)	I Chlorobenzene-d5	----------	----------	ISTD	----------	----------	----------	----------	----------	----------
62)S	Toluene-d8	1.390	1.373	1.379	1.382	1.345	1.357	1.326	1.365	1.69
63)C	Toluene	1.360	1.509	1.433	1.554	1.493	1.571	1.425	1.478	5.11
64)	Isobutyl alcohol	0.013	0.013	0.014	0.015	0.014	0.015	0.013	0.014	6.92
65)	2-Nitropropane	0.072	0.093	0.096	0.112	0.112	0.118	0.103	0.101	15.36

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9959
Response Ratio = 0.00000 + 0.11190 *A + -0.00044 *A^2

66)	4-Methyl-2-pentan	0.424	0.339	0.378	0.427	0.375	0.399	0.345	0.384	9.08
67)	trans-1,3-Dichlor	0.337	0.448	0.453	0.512	0.512	0.541	0.503	0.472	14.48
68)	Tetrachloroethene	0.288	0.368	0.358	0.391	0.375	0.397	0.365	0.363	9.91
69)	Ethyl methacrylat	0.279	0.364	0.426	0.477	0.469	0.495	0.458	0.424	18.16

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9979
Response Ratio = 0.00000 + 0.45917 *A + 0.00655 *A^2

Initial Calibration Summary

Job Number: FC1584 **Sample:** V5E1617-ICC1617
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 5E35982.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

70)	1,1,2-Trichloroet	0.244	0.297	0.283	0.304	0.301	0.305	0.276	0.287	7.67
71)	Dibromochlorometh	0.273	0.365	0.350	0.405	0.409	0.422	0.393	0.374	13.72
72)	1,3-Dichloropropa	0.495	0.580	0.548	0.620	0.593	0.613	0.559	0.573	7.56
73)	1,2-Dibromoethane	0.264	0.341	0.329	0.376	0.376	0.387	0.350	0.346	12.09
74)	3,3-Dimethyl-1-bu	0.026	0.028	0.035	0.037	0.038	0.040	0.035	0.034	15.39

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9952
Response Ratio = 0.00000 + 0.03777 *A + -0.00002 *A^2

75)	2-hexanone	0.276	0.224	0.261	0.297	0.270	0.277	0.242	0.264	9.22
76)	1-Chlorohexane	0.383	0.486	0.467	0.523	0.518	0.553	0.486	0.488	11.16
77)C	Ethylbenzene	1.642	1.739	1.594	1.729	1.709	1.793	1.635	1.692	4.14
78)P	Chlorobenzene	0.908	0.985	0.925	1.035	1.003	1.049	0.965	0.981	5.39
79)	1,1,1,2-Tetrachlo	0.279	0.335	0.316	0.364	0.358	0.372	0.339	0.338	9.48
80)	m,p-Xylene	1.079	1.273	1.184	1.317	1.303	1.367	1.261	1.255	7.61
81)	o-Xylene	0.993	1.197	1.152	1.283	1.251	1.307	1.198	1.197	8.76
82)	Styrene	0.670	0.906	0.869	1.003	0.986	1.040	0.963	0.919	13.51
83)P	Bromoform	0.138	0.212	0.207	0.241	0.248	0.265	0.244	0.222	19.04

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9973
Response Ratio = 0.00000 + 0.23635 *A + 0.00810 *A^2

84)	Isopropylbenzene	1.302	1.604	1.487	1.620	1.615	1.694	1.543	1.552	8.24
85) I	1,4-Dichlorobenzene-d	----------ISTD----------								
86)S	4-Bromofluorobenz	0.872	0.858	0.854	0.814	0.814	0.816	0.795	0.832	3.47
87)	cis-1,4-Dichloro-	0.035	0.181	0.217	0.244	0.255	0.255	0.219	0.201	38.75

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9956
Response Ratio = 0.00000 + 0.24720 *A + -0.00833 *A^2

88)	n-Propylbenzene	3.516	4.066	3.899	4.222	4.148	4.267	3.796	3.988	6.73
89)	Bromobenzene	0.652	0.805	0.762	0.809	0.819	0.825	0.759	0.776	7.79
90)P	1,1,2,2-Tetrachlo	0.918	0.938	0.946	1.039	1.033	1.038	0.910	0.975	6.09
91)	1,3,5-Trimethylbe	2.213	2.653	2.503	2.737	2.760	2.900	2.630	2.628	8.39
92)	2-Chlorotoluene	2.333	2.538	2.273	2.521	2.510	2.588	2.370	2.448	4.91
93)	trans-1,4-Dichlor	0.035	0.181	0.217	0.244	0.255	0.255	0.219	0.201	38.75

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9956
Response Ratio = 0.00000 + 0.24720 *A + -0.00833 *A^2

94)	1,2,3-Trichloropr	0.150	0.263	0.254	0.284	0.284	0.294	0.250	0.254	19.32

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9964
Response Ratio = 0.00000 + 0.29199 *A + -0.01507 *A^2

95)	Cyclohexanone	0.018	0.023	0.026	0.026	0.026	0.026	0.024	12.99	

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9989
Response Ratio = 0.00000 + 0.02412 *A + 0.00026 *A^2

96)	4-Chlorotoluene	2.020	2.254	2.088	2.253	2.225	2.312	2.105	2.179	4.96
97)	a-Methyl styrene								0.000	-1.00
98)	tert-Butylbenzene	1.282	1.483	1.365	1.473	1.463	1.515	1.361	1.420	5.98
99)	1,2,4-Trimethylbe	2.105	2.494	2.410	2.704	2.715	2.845	2.556	2.547	9.60
100)	Pentachloroethane	0.449	0.404	0.451	0.484	0.477	0.491	0.454	0.459	6.45
101)	sec-Butylbenzene	2.827	3.225	3.073	3.438	3.391	3.544	3.120	3.231	7.65
102)	4-Isopropyltoluen	2.379	2.788	2.683	3.018	3.012	3.158	2.788	2.832	9.17
103)	1,3-Dichlorobenze	1.257	1.420	1.429	1.518	1.514	1.579	1.426	1.449	7.15
104)	1,2,3-Trimethylbe	2.110	2.571	2.480	2.701	2.740	2.825	2.572	2.571	9.13
105)	1,4-Dichlorobenze	1.442	1.604	1.526	1.651	1.619	1.710	1.545	1.585	5.58
106)	n-Butylbenzene	1.156	1.491	1.422	1.584	1.646	1.724	1.490	1.502	12.25
107)	Benzyl Chloride	0.156	0.228	0.269	0.333	0.354	0.389		0.288	30.26

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9985
Response Ratio = 0.00000 + 0.27006 *A + 0.08940 *A^2

Initial Calibration Summary

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICC1617
Lab FileID: 5E35982.D

```
108)  1,2-Dichlorobenze 1.278 1.359 1.327 1.442 1.462 1.496 1.345 1.387   5.78
109)  1,2-Dibromo-3-Chl 0.039 0.120 0.129 0.151 0.155 0.160 0.135 0.127  32.52
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9950
               Response Ratio = 0.00000 + 0.15234 *A + -0.00464 *A^2

110)  Hexachlorobutadie 0.242 0.326 0.300 0.310 0.307 0.311 0.256 0.293  10.64
111)  1,2,4-Trichlorobe 0.641 0.796 0.745 0.818 0.826 0.843 0.741 0.773   9.09
112)  Naphthalene       1.533 2.047 2.118 2.334 2.372 2.401 2.013 2.117  14.30
113)  1,2,3-Trichlorobe 0.545 0.639 0.653 0.701 0.703 0.711 0.608 0.651   9.30
 ---------------------------------------------------------------------------
 (#) = Out of Range

          appIX12-08-2022_.M        Thu Dec 08 16:36:18 2022
```

Initial Calibration Verification

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICV1617
Lab FileID: 5E35986.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\12-08-2022\5E35986.D Vial: 10
Acq On : 8 Dec 2022 3:25 pm Operator: courtnef
Sample : ICV1617-5 Inst : MSVOA20
Misc : MS52751,V5E1617,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...pIX12-08-2022_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Thu Dec 08 16:31:47 2022
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	101	0.00	8.95
2		Dichlorodifluoromethane	0.305	0.263	13.8	93	0.00	2.85
3	P	Chloromethane	0.293	0.275	6.1	98	0.00	3.22
4	C	Vinyl Chloride	0.311	0.307	1.3	102	0.00	3.37
5		1,3-Butadiene	0.199	0.223	-12.1	122	0.00	3.40
6		Bromomethane	0.163	0.175	-7.4	108	0.00	3.94
			Amount	Calc.	%Drift			
7		Chloroethane	40.000	47.808	-19.5	156	0.00	4.15
			AvgRF	CCRF	%Dev			
8		Trichlorofluoromethane	0.376	0.396	-5.3	108	0.00	4.38
9		Ethyl Ether	0.221	0.218	1.4	97	0.00	4.87
10		Ethanol	0.002	0.002	0.0	95	0.02	5.12
11		1,2-Dichlorotrifluoroetha	0.316	0.313	0.9	99	0.00	5.15
12	C	1,1-Dichloroethene	0.393	0.374	4.8	94	0.00	5.16
13		Freon 113	0.265	0.249	6.0	96	0.00	5.22
14		Carbon Disulfide	0.740	0.738	0.3	103	0.00	5.21
			Amount	Calc.	%Drift			
15		Iodomethane	40.000	38.031	4.9	93	0.00	5.37
			AvgRF	CCRF	%Dev			
16		Acrolein	0.048	0.048	0.0	93	0.00	5.63
17		Allyl chloride	0.271	0.275	-1.5	105	0.00	5.82
			Amount	Calc.	%Drift			
18		Methylene Chloride	40.000	34.555	13.6	90	0.00	5.96
19		Acetone	200.000	189.683	5.2	101	0.00	6.01
			AvgRF	CCRF	%Dev			
20		Methyl acetate	0.153	0.165	-7.8	101	0.00	6.17
21		trans-1,2-Dichloroethene	0.365	0.354	3.0	96	0.00	6.17
22		Hexane	0.219	0.229	-4.6	99	0.00	6.26
23		Methyl Tert Butyl Ether	0.728	0.746	-2.5	100	0.00	6.29
24		Acetonitrile	0.025	0.024	4.0	100	0.00	6.62
25		Di-isopropyl ether	0.699	0.728	-4.1	102	0.00	6.76
26		Chloroprene	0.328	0.358	-9.1	112	0.00	6.91
27	P	1,1-Dichloroethane	0.484	0.487	-0.6	99	0.00	6.94
28		Acrylonitrile	0.091	0.103	-13.2	109	0.00	6.99
29		ETBE	0.808	0.820	-1.5	99	0.00	7.20

Initial Calibration Verification

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICV1617
Lab FileID: 5E35986.D

			Amount	Calc.	%Drift			
30		Tert Butyl Alcohol	400.000	369.770	7.6	92	0.00	6.40
			AvgRF	CCRF	%Dev			
31		Vinyl acetate			NA			
32		cis-1,2-Dichloroethene	0.267	0.272	-1.9	100	0.00	7.58
33		2,2-Dichloropropane	0.387	0.356	8.0	91	0.00	7.70
34		Bromochloromethane	0.130	0.140	-7.7	102	0.00	7.81
35		Cyclohexane	0.429	0.442	-3.0	105	0.00	7.82
36	C	Chloroform	0.471	0.461	2.1	97	0.00	7.87
37		Ethyl acetate	0.235	0.267	-13.6	109	0.00	7.98
38		Tetrahydrofuran	0.073	0.072	1.4	103	0.00	8.07
39	S	Dibromofluoromethane	0.277	0.277	0.0	102	0.00	8.08
40		Carbon Tetrachloride	0.343	0.342	0.3	98	0.00	8.05
41		1,1,1-Trichloroethane	0.392	0.391	0.3	98	0.00	8.12
42		2-Butanone	0.118	0.114	3.4	99	0.00	8.20
43		1,1-Dichloropropene	0.353	0.341	3.4	96	0.00	8.26
44		tert-Butyl formate	0.103	0.084	18.4	78	0.00	8.35
			Amount	Calc.	%Drift			
45		Propionitrile	400.000	393.496	1.6	98	0.00	8.54
			AvgRF	CCRF	%Dev			
46		Methacrylonitrile	0.145	0.156	-7.6	106	0.00	8.55
47		Benzene	1.014	0.985	2.9	97	0.00	8.52
48		TAME	0.722	0.764	-5.8	101	0.00	8.60
49	S	1,2-Dichloroethane-d4	0.318	0.314	1.3	99	0.00	8.66
50		1,2-Dichloroethane	0.385	0.377	2.1	96	0.00	8.73
			Amount	Calc.	%Drift			
51		tert Amyl alcohol	400.000	411.326	-2.8	100	0.00	8.79
			AvgRF	CCRF	%Dev			
52		Trichloroethene	0.271	0.270	0.4	98	0.00	9.13
53		Methylcyclohexane	0.428	0.452	-5.6	104	0.00	9.13
54		Dibromomethane	0.179	0.177	1.1	95	0.00	9.58
			Amount	Calc.	%Drift			
55	C	1,2-Dichloropropane	40.000	37.212	7.0	95	0.00	9.67
			AvgRF	CCRF	%Dev			
56		Bromodichloromethane	0.341	0.362	-6.2	100	0.00	9.72
			Amount	Calc.	%Drift			
57		Methyl methacrylate	40.000	41.939	-4.8	104	0.00	9.84
58		1,4-Dioxane	800.000	891.935	-11.5	111	0.00	9.93
			AvgRF	CCRF	%Dev			
59		2-Chloroethyl vinyl ether	0.157	0.164	-4.5	97	0.00	10.26
60		cis-1,3-Dichloropropene	0.385	0.405	-5.2	100	0.00	10.35
61	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00	12.12
62	S	Toluene-d8	1.365	1.348	1.2	101	0.00	10.54
63	C	Toluene	1.478	1.470	0.5	99	0.00	10.60
64		Isobutyl alcohol	0.014	0.015	-7.1	103	0.00	8.68
			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	203.716	-1.9	101	0.00	10.83
			AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICV1617
Lab FileID: 5E35986.D

66		4-Methyl-2-pentanone	0.384	0.364	5.2	98	0.00	10.94
67		trans-1,3-Dichloropropene	0.472	0.539	-14.2	106	0.00	11.00
68		Tetrachloroethene	0.363	0.370	-1.9	100	0.00	11.00
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	38.346	4.1	96	0.00	11.10
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.287	0.294	-2.4	99	0.00	11.16
71		Dibromochloromethane	0.374	0.387	-3.5	96	0.00	11.36
72		1,3-Dichloropropane	0.573	0.550	4.0	94	0.00	11.45
73		1,2-Dibromoethane	0.346	0.362	-4.6	97	0.00	11.62
			Amount	Calc.	%Drift			
74		3,3-Dimethyl-1-butanol	2000.000	1822.705	8.9	90	0.00	11.71
			AvgRF	CCRF	%Dev			
75		2-hexanone	0.264	0.255	3.4	95	0.00	11.77
76		1-Chlorohexane	0.488	0.527	-8.0	103	0.00	12.06
77	C	Ethylbenzene	1.692	1.684	0.5	100	0.00	12.12
78	P	Chlorobenzene	0.981	0.990	-0.9	100	0.00	12.13
79		1,1,1,2-Tetrachloroethane	0.338	0.356	-5.3	101	0.00	12.18
80		m,p-Xylene	1.255	1.274	-1.5	99	0.00	12.26
81		o-Xylene	1.197	1.273	-6.3	103	0.00	12.71
82		Styrene	0.919	0.977	-6.3	100	0.00	12.76
			Amount	Calc.	%Drift			
83	P	Bromoform	40.000	41.573	-3.9	103	0.00	12.82
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.552	1.607	-3.5	101	0.00	13.01
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	14.47
86	S	4-Bromofluorobenzene	0.832	0.843	-1.3	104	0.00	13.33
			Amount	Calc.	%Drift			
87		cis-1,4-Dichloro-2-butene	40.000	43.242	-8.1	102	0.00	13.68
			AvgRF	CCRF	%Dev			
88		n-Propylbenzene	3.988	4.158	-4.3	101	0.00	13.43
89		Bromobenzene	0.776	0.775	0.1	95	0.00	13.46
90	P	1,1,2,2-Tetrachloroethane	0.975	1.008	-3.4	98	0.00	13.50
91		1,3,5-Trimethylbenzene	2.628	2.734	-4.0	99	0.00	13.61
92		2-Chlorotoluene	2.448	2.476	-1.1	99	0.00	13.62
			Amount	Calc.	%Drift			
93		trans-1,4-Dichloro-2-Bute	40.000	43.242	-8.1	102	0.00	13.68
94		1,2,3-Trichloropropane	40.000	37.558	6.1	93	0.00	13.66
95		Cyclohexanone	200.000	234.198	-17.1	114	0.00	13.74
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	2.179	2.244	-3.0	101	0.00	13.79
97		a-Methyl styrene		----------NA----------				
98		tert-Butylbenzene	1.420	1.461	-2.9	100	0.00	13.95
99		1,2,4-Trimethylbenzene	2.547	2.777	-9.0	103	0.00	14.02
100		Pentachloroethane	0.459	0.493	-7.4	104	0.00	14.01
101		sec-Butylbenzene	3.231	3.577	-10.7	106	0.00	14.13
102		4-Isopropyltoluene	2.832	3.099	-9.4	103	0.00	14.26
103		1,3-Dichlorobenzene	1.449	1.579	-9.0	105	0.00	14.40
104		1,2,3-Trimethylbenzene	2.571	2.956	-15.0	108	0.00	14.47

Initial Calibration Verification

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICV1617
Lab FileID: 5E35986.D

105	1,4-Dichlorobenzene	1.585	1.644	-3.7	102	0.00	14.49
106	n-Butylbenzene	1.502	1.565	-4.2	95	0.00	14.69
		Amount	Calc.	%Drift			
107	Benzyl Chloride	40.000	41.057	-2.6	100	0.00	14.71
		AvgRF	CCRF	%Dev			
108	1,2-Dichlorobenzene	1.387	1.474	-6.3	101	0.00	14.90
		Amount	Calc.	%Drift			
109	1,2-Dibromo-3-Chloropropa	40.000	39.855	0.4	96	0.00	15.63
		AvgRF	CCRF	%Dev			
110	Hexachlorobutadiene	0.293	0.292	0.3	96	0.00	16.17
111	1,2,4-Trichlorobenzene	0.773	0.835	-8.0	101	0.00	16.22
112	Naphthalene	2.117	2.360	-11.5	100	0.00	16.52
113	1,2,3-Trichlorobenzene	0.651	0.699	-7.4	100	0.00	16.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5E35982.D appIX12-08-2022_.M Thu Dec 08 16:35:37 2022

Initial Calibration Verification

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICV1617
Lab FileID: 5E35987.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\12-08-2022\5E35987.D Vial: 11
Acq On : 8 Dec 2022 4:06 pm Operator: courtnef
Sample : ICV1617-4 Inst : MSVOA20
Misc : MS52751,V5E1617,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...pIX12-08-2022_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Thu Dec 08 16:31:47 2022
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	111	0.00	8.95
2		Dichlorodifluoromethane		----------	NA	----------		
3	P	Chloromethane		----------	NA	----------		
4	C	Vinyl Chloride		----------	NA	----------		
5		1,3-Butadiene		----------	NA	----------		
6		Bromomethane		----------	NA	----------		
		----------	Amount	Calc.	%Drift	----------		
7		Chloroethane		----------	NA	----------		
		----------	AvgRF	CCRF	%Dev	----------		
8		Trichlorofluoromethane		----------	NA	----------		
9		Ethyl Ether		----------	NA	----------		
10		Ethanol		----------	NA	----------		
11		1,2-Dichlorotrifluoroetha		----------	NA	----------		
12	C	1,1-Dichloroethene		----------	NA	----------		
13		Freon 113		----------	NA	----------		
14		Carbon Disulfide		----------	NA	----------		
		----------	Amount	Calc.	%Drift	----------		
15		Iodomethane		----------	NA	----------		
		----------	AvgRF	CCRF	%Dev	----------		
16		Acrolein		----------	NA	----------		
17		Allyl chloride		----------	NA	----------		
		----------	Amount	Calc.	%Drift	----------		
18		Methylene Chloride		----------	NA	----------		
19		Acetone		----------	NA	----------		
		----------	AvgRF	CCRF	%Dev	----------		
20		Methyl acetate		----------	NA	----------		
21		trans-1,2-Dichloroethene		----------	NA	----------		
22		Hexane		----------	NA	----------		
23		Methyl Tert Butyl Ether		----------	NA	----------		
24		Acetonitrile		----------	NA	----------		
25		Di-isopropyl ether		----------	NA	----------		
26		Chloroprene		----------	NA	----------		
27	P	1,1-Dichloroethane		----------	NA	----------		
28		Acrylonitrile		----------	NA	----------		
29		ETBE		----------	NA	----------		

Initial Calibration Verification

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICV1617
Lab FileID: 5E35987.D

			Amount	Calc.	%Drift			
30		Tert Butyl Alcohol		----------NA----------				
			AvgRF	CCRF	%Dev			
31		Vinyl acetate	0.476	0.510	-7.1	121	0.00	7.21
32		cis-1,2-Dichloroethene		----------NA----------				
33		2,2-Dichloropropane		----------NA----------				
34		Bromochloromethane		----------NA----------				
35		Cyclohexane		----------NA----------				
36	C	Chloroform		----------NA----------				
37		Ethyl acetate		----------NA----------				
38		Tetrahydrofuran		----------NA----------				
39	S	Dibromofluoromethane	0.277	0.280	-1.1	114	0.00	8.08
40		Carbon Tetrachloride		----------NA----------				
41		1,1,1-Trichloroethane		----------NA----------				
42		2-Butanone		----------NA----------				
43		1,1-Dichloropropene		----------NA----------				
44		tert-Butyl formate		----------NA----------				
			Amount	Calc.	%Drift			
45		Propionitrile		----------NA----------				
			AvgRF	CCRF	%Dev			
46		Methacrylonitrile		----------NA----------				
47		Benzene		----------NA----------				
48		TAME		----------NA----------				
49	S	1,2-Dichloroethane-d4	0.318	0.328	-3.1	115	0.00	8.66
50		1,2-Dichloroethane		----------NA----------				
			Amount	Calc.	%Drift			
51		tert Amyl alcohol		----------NA----------				
			AvgRF	CCRF	%Dev			
52		Trichloroethene		----------NA----------				
53		Methylcyclohexane		----------NA----------				
54		Dibromomethane		----------NA----------				
			Amount	Calc.	%Drift			
55	C	1,2-Dichloropropane		----------NA----------				
			AvgRF	CCRF	%Dev			
56		Bromodichloromethane		----------NA----------				
			Amount	Calc.	%Drift			
57		Methyl methacrylate		----------NA----------				
58		1,4-Dioxane		----------NA----------				
			AvgRF	CCRF	%Dev			
59		2-Chloroethyl vinyl ether		----------NA----------				
60		cis-1,3-Dichloropropene		----------NA----------				
61	I	Chlorobenzene-d5	1.000	1.000	0.0	110	0.00	12.12
62	S	Toluene-d8	1.365	1.392	-2.0	111	0.00	10.54
63	C	Toluene		----------NA----------				
64		Isobutyl alcohol		----------NA----------				
			Amount	Calc.	%Drift			
65		2-Nitropropane		----------NA----------				
			AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICV1617
Lab FileID: 5E35987.D

66		4-Methyl-2-pentanone			NA				
67		trans-1,3-Dichloropropene			NA				
68		Tetrachloroethene			NA				
			Amount	Calc.	%Drift				
69		Ethyl methacrylate			NA				
			AvgRF	CCRF	%Dev				
70		1,1,2-Trichloroethane			NA				
71		Dibromochloromethane			NA				
72		1,3-Dichloropropane			NA				
73		1,2-Dibromoethane			NA				
			Amount	Calc.	%Drift				
74		3,3-Dimethyl-1-butanol			NA				
			AvgRF	CCRF	%Dev				
75		2-hexanone			NA				
76		1-Chlorohexane			NA				
77	C	Ethylbenzene			NA				
78	P	Chlorobenzene			NA				
79		1,1,1,2-Tetrachloroethane			NA				
80		m,p-Xylene			NA				
81		o-Xylene			NA				
82		Styrene			NA				
			Amount	Calc.	%Drift				
83	P	Bromoform			NA				
			AvgRF	CCRF	%Dev				
84		Isopropylbenzene			NA				
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00	14.47	
86	S	4-Bromofluorobenzene	0.832	0.853	-2.5	112	0.00	13.33	
			Amount	Calc.	%Drift				
87		cis-1,4-Dichloro-2-butene			NA				
			AvgRF	CCRF	%Dev				
88		n-Propylbenzene			NA				
89		Bromobenzene			NA				
90	P	1,1,2,2-Tetrachloroethane			NA				
91		1,3,5-Trimethylbenzene			NA				
92		2-Chlorotoluene			NA				
			Amount	Calc.	%Drift				
93		trans-1,4-Dichloro-2-Bute			NA				
94		1,2,3-Trichloropropane			NA				
95		Cyclohexanone			NA				
			AvgRF	CCRF	%Dev				
96		4-Chlorotoluene			NA				
97		a-Methyl styrene			NA				
98		tert-Butylbenzene			NA				
99		1,2,4-Trimethylbenzene			NA				
100		Pentachloroethane			NA				
101		sec-Butylbenzene			NA				
102		4-Isopropyltoluene			NA				
103		1,3-Dichlorobenzene			NA				
104		1,2,3-Trimethylbenzene			NA				

Initial Calibration Verification

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1617-ICV1617
Lab FileID: 5E35987.D

```
105     1,4-Dichlorobenzene                 ----------NA----------
106     n-Butylbenzene                      ----------NA----------

            ----------------------- Amount  Calc.    %Drift   -------------
107     Benzyl Chloride                     ----------NA----------

            ----------------------- AvgRF   CCRF      %Dev   --------------
108     1,2-Dichlorobenzene                 ----------NA----------

            ----------------------- Amount  Calc.    %Drift   -------------
109     1,2-Dibromo-3-Chloropropa           ----------NA----------

            ----------------------- AvgRF   CCRF      %Dev   --------------
110     Hexachlorobutadiene                 ----------NA----------
111     1,2,4-Trichlorobenzene              ----------NA----------
112     Naphthalene                         ----------NA----------
113     1,2,3-Trichlorobenzene              ----------NA----------
 ------------------------------------------------------------------------------
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    (#) = Out of Range               SPCC's out = 4  CCC's out = 6
     5E35981.D  appIX12-08-2022_.M       Thu Dec 08 16:36:09 2022
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Continuing Calibration Summary

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1632-CC1617
Lab FileID: 5E36297.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jo...5e1632-1633\5E36297.d Vial: 2
Acq On : 27 Dec 2022 10:45 am Operator: joannel
Sample : cc1617-5 Inst : MSVOA20
Misc : MS52751,V5E1632,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...pIX12-08-2022_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Thu Dec 08 16:31:47 2022
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	95	0.00	8.95
2		Dichlorodifluoromethane	0.305	0.336	-10.2	112	0.00	2.85
3	P	Chloromethane	0.293	0.335	-14.3	112	0.00	3.21
4	C	Vinyl Chloride	0.311	0.358	-15.1	112	0.00	3.37
5		1,3-Butadiene	0.199	0.217	-9.0	112	0.00	3.40
6		Bromomethane	0.163	0.165	-1.2	96	0.00	3.94
			True	Calc.	% Drift			
7		Chloroethane	40.000	39.376	1.6	109	0.00	4.15
			AvgRF	CCRF	% Dev			
8		Trichlorofluoromethane	0.376	0.441	-17.3	113	0.00	4.38
9		Ethyl Ether	0.221	0.236	-6.8	98	0.00	4.87
10		Ethanol	0.002	0.002	0.0	111	0.00	5.10
11		1,2-Dichlorotrifluoroetha	0.316	0.357	-13.0	107	0.00	5.15
12	C	1,1-Dichloroethene	0.393	0.434	-10.4	102	0.00	5.16
13		Freon 113	0.265	0.291	-9.8	106	0.00	5.22
14		Carbon Disulfide	0.740	0.748	-1.1	98	0.00	5.21
			True	Calc.	% Drift			
15		Iodomethane	40.000	22.927	42.7#	52	0.00	5.37
			AvgRF	CCRF	% Dev			
16		Acrolein	0.048	0.058	-20.8#	106	0.00	5.63
17		Allyl chloride	0.271	0.304	-12.2	109	0.00	5.81
			True	Calc.	% Drift			
18		Methylene Chloride	40.000	42.009	-5.0	102	0.00	5.96
19		Acetone	200.000	204.939	-2.5	102	0.00	6.01
			AvgRF	CCRF	% Dev			
20		Methyl acetate	0.153	0.177	-15.7	102	0.00	6.17
21		trans-1,2-Dichloroethene	0.365	0.413	-13.2	106	0.00	6.17
22		Hexane	0.219	0.259	-18.3	105	0.00	6.26
23		Methyl Tert Butyl Ether	0.728	0.801	-10.0	101	0.00	6.29
24		Acetonitrile	0.025	0.027	-8.0	105	0.00	6.61
25		Di-isopropyl ether	0.699	0.797	-14.0	105	0.00	6.75
26		Chloroprene	0.328	0.365	-11.3	108	0.00	6.91
27	P	1,1-Dichloroethane	0.484	0.534	-10.3	103	0.00	6.94
28		Acrylonitrile	0.091	0.105	-15.4	104	0.00	6.99
29		ETBE	0.808	0.921	-14.0	104	0.00	7.19

Continuing Calibration Summary

Job Number: FC1584 **Sample:** V5E1632-CC1617
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 5E36297.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

			True	Calc.	% Drift			
30		Tert Butyl Alcohol	400.000	375.219	6.2	88	0.00	6.39
			AvgRF	CCRF	% Dev			
31		Vinyl acetate	0.476	0.561	-17.9	107	0.00	7.21
32		cis-1,2-Dichloroethene	0.267	0.297	-11.2	103	0.00	7.58
33		2,2-Dichloropropane	0.387	0.436	-12.7	105	0.00	7.70
34		Bromochloromethane	0.130	0.141	-8.5	97	0.00	7.81
35		Cyclohexane	0.429	0.485	-13.1	108	0.00	7.82
36	C	Chloroform	0.471	0.516	-9.6	102	0.00	7.87
37		Ethyl acetate	0.235	0.272	-15.7	104	0.00	7.98
38		Tetrahydrofuran	0.073	0.079	-8.2	106	0.00	8.07
39	S	Dibromofluoromethane	0.277	0.285	-2.9	99	0.00	8.08
40		Carbon Tetrachloride	0.343	0.403	-17.5	109	0.00	8.05
41		1,1,1-Trichloroethane	0.392	0.446	-13.8	105	0.00	8.12
42		2-Butanone	0.118	0.130	-10.2	106	0.00	8.20
43		1,1-Dichloropropene	0.353	0.388	-9.9	102	0.00	8.26
44		tert-Butyl formate	0.103	0.134	-30.1#	117	0.00	8.35
			True	Calc.	% Drift			
45		Propionitrile	400.000	440.564	-10.1	103	0.00	8.53
			AvgRF	CCRF	% Dev			
46		Methacrylonitrile	0.145	0.178	-22.8#	114	0.00	8.55
47		Benzene	1.014	1.101	-8.6	102	0.00	8.52
48		TAME	0.722	0.821	-13.7	102	0.00	8.60
49	S	1,2-Dichloroethane-d4	0.318	0.320	-0.6	95	0.00	8.66
50		1,2-Dichloroethane	0.385	0.430	-11.7	103	0.00	8.74
			True	Calc.	% Drift			
51		tert Amyl alcohol	400.000	452.351	-13.1	103	0.00	8.79
			AvgRF	CCRF	% Dev			
52		Trichloroethene	0.271	0.305	-12.5	104	0.00	9.13
53		Methylcyclohexane	0.428	0.507	-18.5	110	0.00	9.13
54		Dibromomethane	0.179	0.196	-9.5	99	0.00	9.58
			True	Calc.	% Drift			
55	C	1,2-Dichloropropane	40.000	43.240	-8.1	103	0.00	9.67
			AvgRF	CCRF	% Dev			
56		Bromodichloromethane	0.341	0.400	-17.3	104	0.00	9.72
			True	Calc.	% Drift			
57		Methyl methacrylate	40.000	42.698	-6.7	100	0.00	9.84
58		1,4-Dioxane	800.000	897.636	-12.2	105	0.00	9.92
			AvgRF	CCRF	% Dev			
59		2-Chloroethyl vinyl ether	0.157	0.131	16.6	73	0.00	10.26
60		cis-1,3-Dichloropropene	0.385	0.453	-17.7	105	0.00	10.35
61	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00	12.11
62	S	Toluene-d8	1.365	1.277	6.4	100	0.00	10.54
63	C	Toluene	1.478	1.487	-0.6	105	0.00	10.60
64		Isobutyl alcohol	0.014	0.015	-7.1	107	0.00	8.67
			True	Calc.	% Drift			
65		2-Nitropropane	200.000	210.684	-5.3	109	0.00	10.83
			AvgRF	CCRF	% Dev			

Continuing Calibration Summary

Job Number: FC1584 **Sample:** V5E1632-CC1617
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 5E36297.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

66		4-Methyl-2-pentanone	0.384	0.375	2.3	105	0.00	10.94
67		trans-1,3-Dichloropropene	0.472	0.505	-7.0	104	0.00	10.99
68		Tetrachloroethene	0.363	0.380	-4.7	106	0.00	11.00
			True	Calc.	% Drift			
69		Ethyl methacrylate	40.000	37.647	5.9	98	0.00	11.10
			AvgRF	CCRF	% Dev			
70		1,1,2-Trichloroethane	0.287	0.291	-1.4	102	0.00	11.16
71		Dibromochloromethane	0.374	0.400	-7.0	103	0.00	11.36
72		1,3-Dichloropropane	0.573	0.582	-1.6	103	0.00	11.45
73		1,2-Dibromoethane	0.346	0.364	-5.2	102	0.00	11.62
			True	Calc.	% Drift			
74		3,3-Dimethyl-1-butanol	2000.000	2109.334	-5.5	108	0.00	11.71
			AvgRF	CCRF	% Dev			
75		2-hexanone	0.264	0.268	-1.5	104	0.00	11.76
76		1-Chlorohexane	0.488	0.518	-6.1	105	0.00	12.05
77	C	Ethylbenzene	1.692	1.713	-1.2	105	0.00	12.12
78	P	Chlorobenzene	0.981	0.993	-1.2	104	0.00	12.13
79		1,1,1,2-Tetrachloroethane	0.338	0.361	-6.8	106	0.00	12.18
80		m,p-Xylene	1.255	1.286	-2.5	104	0.00	12.26
81		o-Xylene	1.197	1.245	-4.0	105	0.00	12.70
82		Styrene	0.919	0.973	-5.9	104	0.00	12.76
			True	Calc.	% Drift			
83	P	Bromoform	40.000	41.184	-3.0	106	0.00	12.82
			AvgRF	CCRF	% Dev			
84		Isopropylbenzene	1.552	1.634	-5.3	106	0.00	13.01
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	0.00	14.47
86	S	4-Bromofluorobenzene	0.832	0.822	1.2	112	0.00	13.32
			True	Calc.	% Drift			
87		cis-1,4-Dichloro-2-butene	40.000	36.364	9.1	96	0.00	13.68
			AvgRF	CCRF	% Dev			
88		n-Propylbenzene	3.988	3.935	1.3	106	0.00	13.43
89		Bromobenzene	0.776	0.766	1.3	104	0.00	13.46
90	P	1,1,2,2-Tetrachloroethane	0.975	0.938	3.8	101	0.00	13.49
91		1,3,5-Trimethylbenzene	2.628	2.643	-0.6	107	0.00	13.61
92		2-Chlorotoluene	2.448	2.355	3.8	104	0.00	13.62
			True	Calc.	% Drift			
93		trans-1,4-Dichloro-2-Bute	40.000	36.364	9.1	96	0.00	13.68
94		1,2,3-Trichloropropane	40.000	38.112	4.7	105	0.00	13.66
95		Cyclohexanone	200.000	215.709	-7.9	116	0.00	13.74
			AvgRF	CCRF	% Dev			
96		4-Chlorotoluene	2.179	2.111	3.1	106	0.00	13.79
97		a-Methyl styrene	0.000	0.001	0.0	0#	0.00	10.97
98		tert-Butylbenzene	1.420	1.418	0.1	108	0.00	13.95
99		1,2,4-Trimethylbenzene	2.547	2.585	-1.5	106	0.00	14.02
100		Pentachloroethane	0.459	0.440	4.1	103	0.00	14.00
101		sec-Butylbenzene	3.231	3.285	-1.7	108	0.00	14.13
102		4-Isopropyltoluene	2.832	2.913	-2.9	108	0.00	14.26
103		1,3-Dichlorobenzene	1.449	1.447	0.1	106	0.00	14.40
104		1,2,3-Trimethylbenzene	2.571	2.603	-1.2	106	0.00	14.47

Continuing Calibration Summary

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1632-CC1617
Lab FileID: 5E36297.D

105	1,4-Dichlorobenzene	1.585	1.563	1.4	107	0.00	14.48
106	n-Butylbenzene	1.502	1.576	-4.9	107	0.00	14.68
		True	Calc.	% Drift			
107	Benzyl Chloride	40.000	37.373	6.6	99	0.00	14.71
		AvgRF	CCRF	% Dev			
108	1,2-Dichlorobenzene	1.387	1.390	-0.2	106	0.00	14.90
		True	Calc.	% Drift			
109	1,2-Dibromo-3-Chloropropa	40.000	39.335	1.7	105	0.00	15.63
		AvgRF	CCRF	% Dev			
110	Hexachlorobutadiene	0.293	0.298	-1.7	108	0.00	16.17
111	1,2,4-Trichlorobenzene	0.773	0.798	-3.2	107	0.00	16.22
112	Naphthalene	2.117	2.146	-1.4	101	0.00	16.52
113	1,2,3-Trichlorobenzene	0.651	0.657	-0.9	104	0.00	16.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5E35982.D appIX12-08-2022_.M Wed Dec 28 03:36:49 2022

Continuing Calibration Summary

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1632-ECC1617
Lab FileID: 5E36322.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jo...5e1632-1633\5E36322.d Vial: 27
Acq On : 27 Dec 2022 8:22 pm Operator: joannel
Sample : ECC1617-5 Inst : MSVOA20
Misc : MS52751,V5E1632,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...pIX12-08-2022_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Thu Dec 08 16:31:47 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Fluorobenzene	1.000	1.000	0.0	90	0.00	8.95
2		Dichlorodifluoromethane	0.305	0.325	-6.6	102	0.00	2.85
3	P	Chloromethane	0.293	0.310	-5.8	98	0.00	3.22
4	C	Vinyl Chloride	0.311	0.337	-8.4	99	0.00	3.37
5		1,3-Butadiene	0.199	0.218	-9.5	106	0.00	3.40
6		Bromomethane	0.163	0.166	-1.8	91	0.00	3.94
		----------	True	Calc.	% Drift	----------		
7		Chloroethane	40.000	37.504	6.2	95	0.00	4.15
		----------	AvgRF	CCRF	% Dev	----------		
8		Trichlorofluoromethane	0.376	0.431	-14.6	104	0.00	4.38
9		Ethyl Ether	0.221	0.239	-8.1	94	0.00	4.87
10		Ethanol	0.002	0.003	-50.0	141	0.00	5.10
11		1,2-Dichlorotrifluoroetha	0.316	0.340	-7.6	96	0.00	5.15
12	C	1,1-Dichloroethene	0.393	0.406	-3.3	90	0.00	5.16
13		Freon 113	0.265	0.274	-3.4	94	0.00	5.22
14		Carbon Disulfide	0.740	0.683	7.7	85	0.00	5.21
		----------	True	Calc.	% Drift	----------		
15		Iodomethane	40.000	25.495	36.3	54	0.00	5.37
		----------	AvgRF	CCRF	% Dev	----------		
16		Acrolein	0.048	0.054	-12.5	93	0.00	5.63
17		Allyl chloride	0.271	0.285	-5.2	96	0.00	5.82
		----------	True	Calc.	% Drift	----------		
18		Methylene Chloride	40.000	40.540	-1.3	93	0.00	5.96
19		Acetone	200.000	197.148	1.4	93	0.00	6.01
		----------	AvgRF	CCRF	% Dev	----------		
20		Methyl acetate	0.153	0.179	-17.0	97	0.00	6.17
21		trans-1,2-Dichloroethene	0.365	0.392	-7.4	94	0.00	6.17
22		Hexane	0.219	0.229	-4.6	88	0.00	6.26
23		Methyl Tert Butyl Ether	0.728	0.805	-10.6	95	0.00	6.29
24		Acetonitrile	0.025	0.027	-8.0	98	0.00	6.62
25		Di-isopropyl ether	0.699	0.759	-8.6	94	0.00	6.75
26		Chloroprene	0.328	0.349	-6.4	97	0.00	6.91
27	P	1,1-Dichloroethane	0.484	0.515	-6.4	93	0.00	6.94
28		Acrylonitrile	0.091	0.102	-12.1	95	0.00	6.99
29		ETBE	0.808	0.898	-11.1	96	0.00	7.19

Continuing Calibration Summary

Job Number: FC1584 **Sample:** V5E1632-ECC1617
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 5E36322.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

			True	Calc.	% Drift			
30		Tert Butyl Alcohol	400.000	379.022	5.2	84	0.00	6.39
			AvgRF	CCRF	% Dev			
31		Vinyl acetate	0.476	0.538	-13.0	97	0.00	7.21
32		cis-1,2-Dichloroethene	0.267	0.288	-7.9	94	0.00	7.58
33		2,2-Dichloropropane	0.387	0.371	4.1	84	0.00	7.71
34		Bromochloromethane	0.130	0.140	-7.7	90	0.00	7.81
35		Cyclohexane	0.429	0.464	-8.2	97	0.00	7.82
36	C	Chloroform	0.471	0.508	-7.9	95	0.00	7.87
37		Ethyl acetate	0.235	0.272	-15.7	98	0.00	7.98
38		Tetrahydrofuran	0.073	0.074	-1.4	94	0.00	8.07
39	S	Dibromofluoromethane	0.277	0.290	-4.7	95	0.00	8.07
40		Carbon Tetrachloride	0.343	0.381	-11.1	97	0.00	8.05
41		1,1,1-Trichloroethane	0.392	0.432	-10.2	96	0.00	8.12
42		2-Butanone	0.118	0.123	-4.2	94	0.00	8.20
43		1,1-Dichloropropene	0.353	0.368	-4.2	91	0.00	8.25
44		tert-Butyl formate	0.103	0.126	-22.3	103	0.00	8.35
			True	Calc.	% Drift			
45		Propionitrile	400.000	446.493	-11.6	98	0.00	8.53
			AvgRF	CCRF	% Dev			
46		Methacrylonitrile	0.145	0.176	-21.4	106	0.00	8.55
47		Benzene	1.014	1.058	-4.3	92	0.00	8.52
48		TAME	0.722	0.813	-12.6	95	0.00	8.60
49	S	1,2-Dichloroethane-d4	0.318	0.325	-2.2	91	0.00	8.66
50		1,2-Dichloroethane	0.385	0.425	-10.4	96	0.00	8.73
			True	Calc.	% Drift			
51		tert Amyl alcohol	400.000	454.120	-13.5	98	0.00	8.78
			AvgRF	CCRF	% Dev			
52		Trichloroethene	0.271	0.297	-9.6	96	0.00	9.13
53		Methylcyclohexane	0.428	0.479	-11.9	98	0.00	9.13
54		Dibromomethane	0.179	0.194	-8.4	93	0.00	9.58
			True	Calc.	% Drift			
55	C	1,2-Dichloropropane	40.000	41.909	-4.8	94	0.00	9.67
			AvgRF	CCRF	% Dev			
56		Bromodichloromethane	0.341	0.388	-13.8	95	0.00	9.72
			True	Calc.	% Drift			
57		Methyl methacrylate	40.000	42.746	-6.9	94	0.00	9.84
58		1,4-Dioxane	800.000	907.424	-13.4	100	0.00	9.92
			AvgRF	CCRF	% Dev			
59		2-Chloroethyl vinyl ether	0.157	0.143	8.9	75	0.00	10.26
60		cis-1,3-Dichloropropene	0.385	0.425	-10.4	92	0.00	10.35
61	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	12.11
62	S	Toluene-d8	1.365	1.254	8.1	95	0.00	10.54
63	C	Toluene	1.478	1.395	5.6	95	0.00	10.60
64		Isobutyl alcohol	0.014	0.014	0.0	99	0.00	8.67
			True	Calc.	% Drift			
65		2-Nitropropane	200.000	195.739	2.1	98	0.00	10.83
			AvgRF	CCRF	% Dev			

Continuing Calibration Summary

Job Number: FC1584 **Sample:** V5E1632-ECC1617
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 5E36322.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

66		4-Methyl-2-pentanone	0.384	0.367	4.4	100	0.00	10.94
67		trans-1,3-Dichloropropene	0.472	0.465	1.5	93	0.00	10.99
68		Tetrachloroethene	0.363	0.369	-1.7	100	0.00	11.00
			True	Calc.	% Drift			
69		Ethyl methacrylate	40.000	36.973	7.6	93	0.00	11.10
			AvgRF	CCRF	% Dev			
70		1,1,2-Trichloroethane	0.287	0.285	0.7	97	0.00	11.16
71		Dibromochloromethane	0.374	0.380	-1.6	95	0.00	11.36
72		1,3-Dichloropropane	0.573	0.557	2.8	96	0.00	11.45
73		1,2-Dibromoethane	0.346	0.348	-0.6	94	0.00	11.62
			True	Calc.	% Drift			
74		3,3-Dimethyl-1-butanol	2000.000	2089.199	-4.5	104	0.00	11.71
			AvgRF	CCRF	% Dev			
75		2-hexanone	0.264	0.257	2.7	97	0.00	11.76
76		1-Chlorohexane	0.488	0.471	3.5	93	0.00	12.05
77	C	Ethylbenzene	1.692	1.580	6.6	94	0.00	12.12
78	P	Chlorobenzene	0.981	0.939	4.3	95	0.00	12.13
79		1,1,1,2-Tetrachloroethane	0.338	0.346	-2.4	98	0.00	12.18
80		m,p-Xylene	1.255	1.202	4.2	94	0.00	12.26
81		o-Xylene	1.197	1.176	1.8	96	0.00	12.70
82		Styrene	0.919	0.916	0.3	95	0.00	12.76
			True	Calc.	% Drift			
83	P	Bromoform	40.000	37.830	5.4	94	0.00	12.82
			AvgRF	CCRF	% Dev			
84		Isopropylbenzene	1.552	1.517	2.3	96	0.00	13.01
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00	14.47
86	S	4-Bromofluorobenzene	0.832	0.814	2.2	108	0.00	13.32
			True	Calc.	% Drift			
87		cis-1,4-Dichloro-2-butene	40.000	29.957	25.1	77	0.00	13.68
			AvgRF	CCRF	% Dev			
88		n-Propylbenzene	3.988	3.615	9.4	94	0.00	13.43
89		Bromobenzene	0.776	0.721	7.1	95	0.00	13.46
90	P	1,1,2,2-Tetrachloroethane	0.975	0.932	4.4	97	0.00	13.49
91		1,3,5-Trimethylbenzene	2.628	2.437	7.3	95	0.00	13.61
92		2-Chlorotoluene	2.448	2.189	10.6	94	0.00	13.62
			True	Calc.	% Drift			
93		trans-1,4-Dichloro-2-Bute	40.000	29.957	25.1	77	0.00	13.68
94		1,2,3-Trichloropropane	40.000	37.905	5.2	101	0.00	13.66
95		Cyclohexanone	200.000	213.171	-6.6	111	0.00	13.74
			AvgRF	CCRF	% Dev			
96		4-Chlorotoluene	2.179	1.964	9.9	95	0.00	13.79
97		a-Methyl styrene	0.000	0.001	0.0	0#	0.00	10.98
98		tert-Butylbenzene	1.420	1.303	8.2	96	0.00	13.95
99		1,2,4-Trimethylbenzene	2.547	2.403	5.7	95	0.00	14.02
100		Pentachloroethane	0.459	0.395	13.9	89	0.00	14.01
101		sec-Butylbenzene	3.231	3.070	5.0	98	0.00	14.13
102		4-Isopropyltoluene	2.832	2.730	3.6	98	0.00	14.26
103		1,3-Dichlorobenzene	1.449	1.366	5.7	97	0.00	14.40
104		1,2,3-Trimethylbenzene	2.571	2.462	4.2	97	0.00	14.47

Continuing Calibration Summary

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1632-ECC1617
Lab FileID: 5E36322.D

105	1,4-Dichlorobenzene	1.585	1.495	5.7	99	0.00	14.48
106	n-Butylbenzene	1.502	1.405	6.5	92	0.00	14.68
		True	Calc.	% Drift			
107	Benzyl Chloride	40.000	31.239	21.9	77	0.00	14.71
		AvgRF	CCRF	% Dev			
108	1,2-Dichlorobenzene	1.387	1.335	3.7	98	0.00	14.90
		True	Calc.	% Drift			
109	1,2-Dibromo-3-Chloropropa	40.000	35.744	10.6	93	0.00	15.63
		AvgRF	CCRF	% Dev			
110	Hexachlorobutadiene	0.293	0.266	9.2	94	0.00	16.17
111	1,2,4-Trichlorobenzene	0.773	0.753	2.6	98	0.00	16.22
112	Naphthalene	2.117	2.093	1.1	95	0.00	16.52
113	1,2,3-Trichlorobenzene	0.651	0.650	0.2	100	0.00	16.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5E35982.D appIX12-08-2022_.M Wed Dec 28 03:42:13 2022

Run Sequence Report

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V5E1617 **Method:** SW846 8260D **Instrument ID:** GCMS5E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5E1617-BFB	5E35978.D	12/08/22 10:48	n/a	BFB Tune
V5E1617-IC1617	5E35978.D	12/08/22 10:48	n/a	Initial cal 1
V5E1617-IC1617	5E35979.D	12/08/22 11:33	n/a	Initial cal 2
V5E1617-IC1617	5E35980.D	12/08/22 11:56	n/a	Initial cal 3
V5E1617-IC1617	5E35981.D	12/08/22 12:19	n/a	Initial cal 4
V5E1617-ICC1617	5E35982.D	12/08/22 12:42	n/a	Initial cal 5
V5E1617-IC1617	5E35983.D	12/08/22 13:05	n/a	Initial cal 6
V5E1617-IC1617	5E35984.D	12/08/22 14:00	n/a	Initial cal 7
V5E1617-ICV1617	5E35986.D	12/08/22 15:25	n/a	Initial cal verification 5
V5E1617-CC1617	5E35986A.D	12/08/22 15:25	n/a	Continuing cal 5
V5E1617-ICV1617	5E35987.D	12/08/22 16:06	n/a	Initial cal verification 4
V5E1617-BS	5E35987A.D	12/08/22 16:06	n/a	Blank Spike
V5E1617-MB	5E35990.D	12/08/22 17:39	n/a	Method Blank
ZZZZZZ	5E35991.D	12/08/22 18:02	n/a	(unrelated sample)
ZZZZZZ	5E35992.D	12/08/22 18:25	n/a	(unrelated sample)
ZZZZZZ	5E35993.D	12/08/22 18:48	n/a	(unrelated sample)
ZZZZZZ	5E35994.D	12/08/22 19:11	n/a	(unrelated sample)
ZZZZZZ	5E35995.D	12/08/22 19:34	n/a	(unrelated sample)
ZZZZZZ	5E35996.D	12/08/22 19:58	n/a	(unrelated sample)
ZZZZZZ	5E35997.D	12/08/22 20:21	n/a	(unrelated sample)
V5E1617-ECC1617	5E35998.D	12/08/22 20:44	n/a	Ending cal 5

Run Sequence Report

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V5E1632 **Method:** SW846 8260D **Instrument ID:** GCMS5E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5E1632-BFB	5E36297.D	12/27/22 10:45	n/a	BFB Tune
V5E1632-CC1617	5E36297.D	12/27/22 10:45	n/a	Continuing cal 5
V5E1632-BS	5E36298.D	12/27/22 11:08	n/a	Blank Spike
V5E1632-MB	5E36301.D	12/27/22 12:18	n/a	Method Blank
OP94669-LB	5E36302.D	12/27/22 12:41	OP94669	Leachate Blank
OP94572-LB	5E36303.D	12/27/22 13:04	OP94572	Leachate Blank
FC1455-1L	5E36304.D	12/27/22 13:27	OP94669	(used for QC only; not part of job FC1584)
ZZZZZZ	5E36305.D	12/27/22 13:50	OP94669	(unrelated sample)
ZZZZZZ	5E36306.D	12/27/22 14:13	OP94669	(unrelated sample)
ZZZZZZ	5E36307.D	12/27/22 14:36	OP94572	(unrelated sample)
FC1455-1LMS	5E36318.D	12/27/22 18:50	n/a	Matrix Spike
FC1455-1LMSD	5E36319.D	12/27/22 19:13	n/a	Matrix Spike Duplicate
V5E1632-ECC1617	5E36322.D	12/27/22 20:22	n/a	Ending cal 5

Run Sequence Report

Job Number: FC1584
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V5E1633 **Method:** SW846 8260D **Instrument ID:** GCMS5E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5E1633-BS	5E36298.D	12/27/22 11:08	n/a	Blank Spike
V5E1633-MB	5E36301.D	12/27/22 12:18	n/a	Method Blank
FC1584-7	5E36308.D	12/27/22 14:59	n/a	FDSA-TB001-000.0-20221222
FC1584-1	5E36309.D	12/27/22 15:22	n/a	FDSA-MW0048-015.0-20221222
FC1584-2	5E36310.D	12/27/22 15:46	n/a	FDSA-MW0045-025.0-20221222
FC1584-3	5E36311.D	12/27/22 16:09	n/a	FDSA-MW0051-025.0-20221222
FC1584-4	5E36312.D	12/27/22 16:32	n/a	FDSA-MW0061-007.0-20221222
FC1584-5	5E36313.D	12/27/22 16:55	n/a	FDSA-MW0039-045.0-20221222
FC1584-6	5E36314.D	12/27/22 17:18	n/a	FDSA-MW0038-045.0-20221222
FC1588-1	5E36315.D	12/27/22 17:41	n/a	(used for QC only; not part of job FC1584)
ZZZZZZ	5E36316.D	12/27/22 18:04	n/a	(unrelated sample)
ZZZZZZ	5E36317.D	12/27/22 18:27	n/a	(unrelated sample)
FC1588-1MS	5E36320.D	12/27/22 19:36	n/a	Matrix Spike
FC1588-1MSD	5E36321.D	12/27/22 19:59	n/a	Matrix Spike Duplicate

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36309.d
Acq On : 27 Dec 2022 3:22 pm
Operator : joannel
Sample : FC1584-1 Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 03:13:45 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

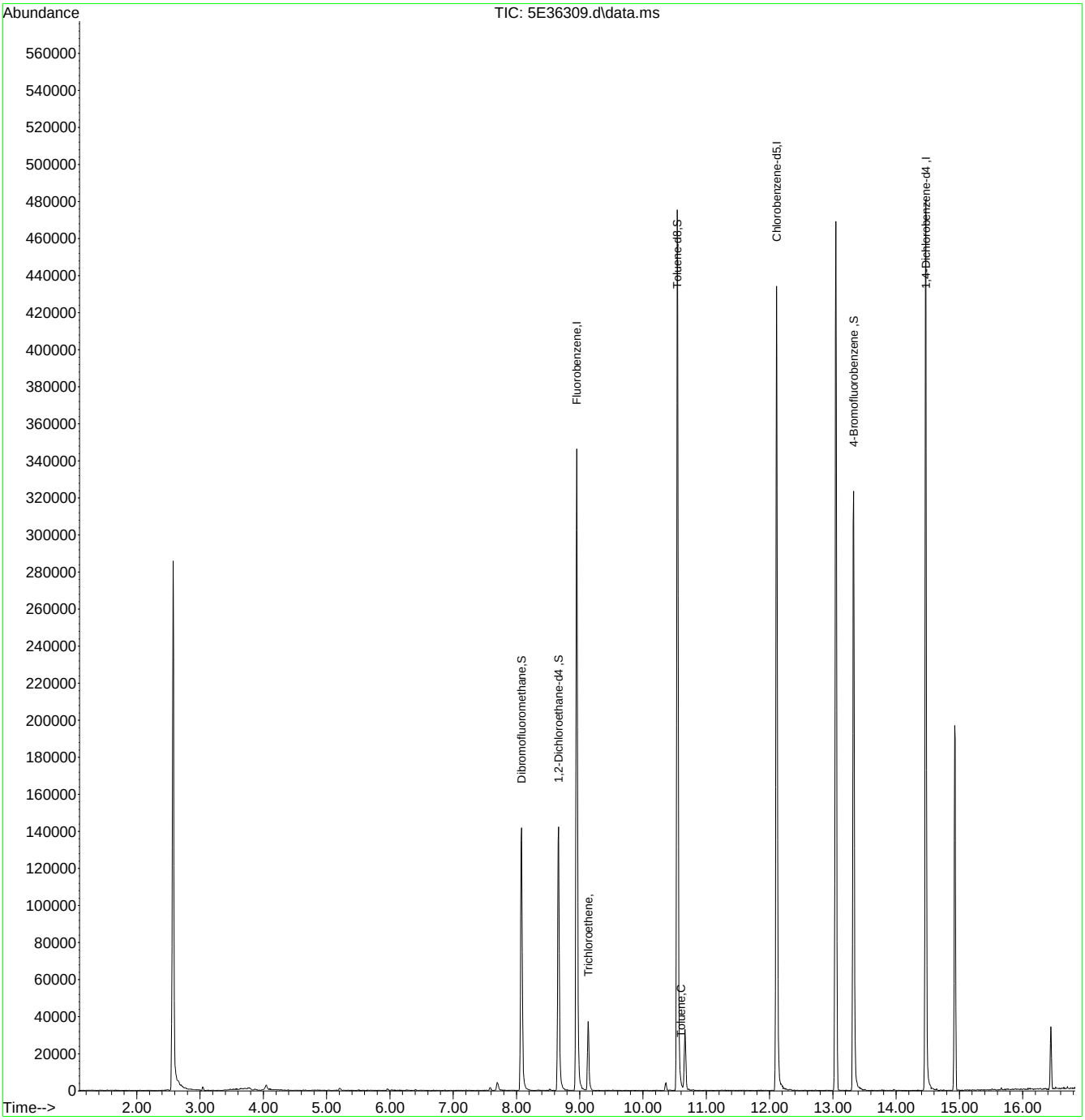
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	281126	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	222097	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	110600	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.079	113	82214	52.78	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.56%			
49) 1,2-Dichloroethane-d4	8.665	65	91603	51.22	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.44%			
62) Toluene-d8	10.542	98	289684	47.79	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.58%			
86) 4-Bromofluorobenzene	13.328	95	92895	50.49	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.98%			
Target Compounds						Qvalue
52) Trichloroethene	9.134	95	10785	7.07	ug/L	86
63) Toluene	10.603	91	478	0.07	ug/L	82

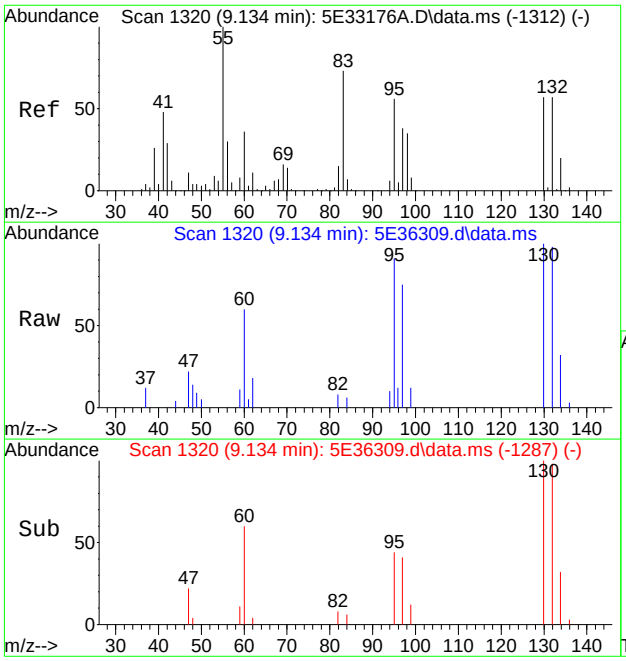
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36309.d
Acq On : 27 Dec 2022 3:22 pm
Operator : joannel
Sample : FC1584-1 Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 03:13:45 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

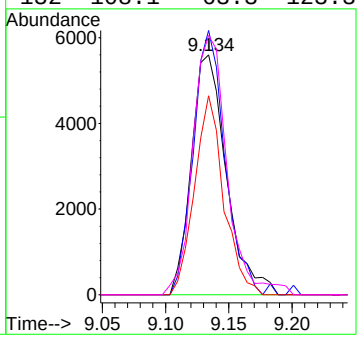


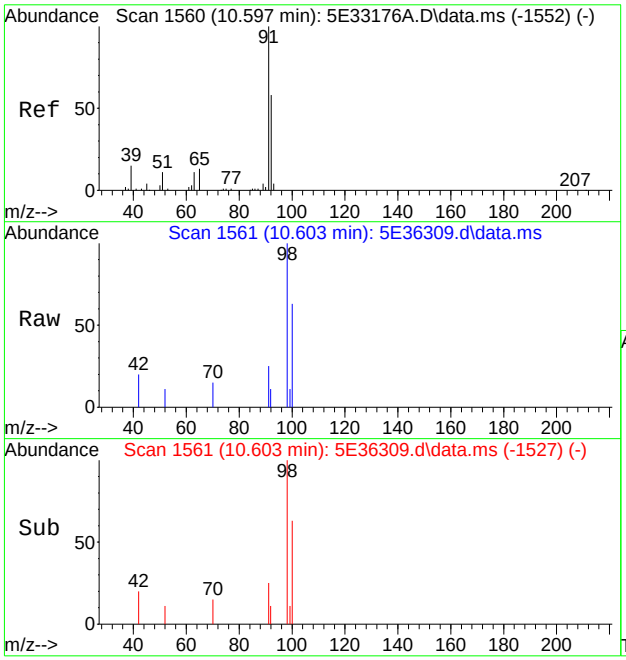


#52
Trichloroethene
Concen: 7.07 ug/L
RT: 9.134 min Scan# 1320
Delta R.T. -0.000 min
Lab File: 5E36309.d
Acq: 27 Dec 2022 3:22 pm

Tgt Ion: 95 Resp: 10785

Ion	Ratio	Lower	Upper
95	100		
130	110.2	71.6	131.6
97	82.9	35.9	95.9
132	108.1	63.3	123.3

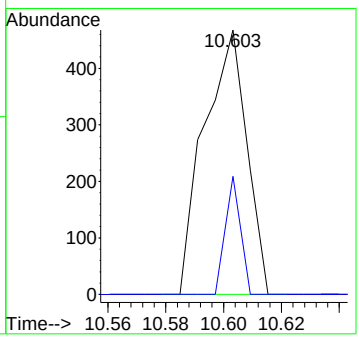




#63
Toluene
Concen: 0.07 ug/L
RT: 10.603 min Scan# 1561
Delta R.T. 0.006 min
Lab File: 5E36309.d
Acq: 27 Dec 2022 3:22 pm

Tgt Ion: 91 Resp: 478

Ion	Ratio	Lower	Upper
91	100		
92	44.7	28.3	88.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36310.d
Acq On : 27 Dec 2022 3:46 pm
Operator : joannel
Sample : FC1584-2 Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 03:14:56 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

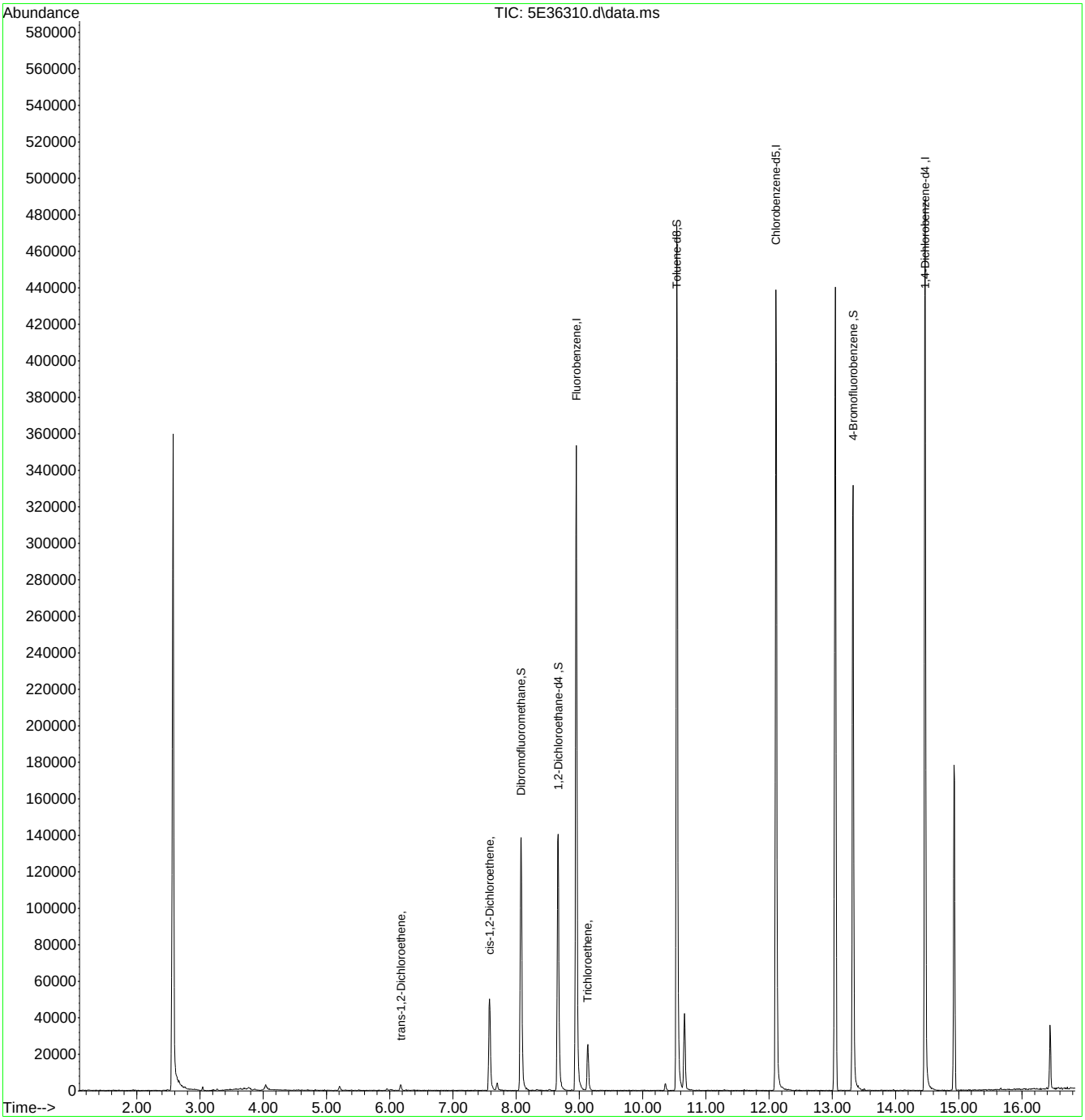
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	283544	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	223968	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	109096	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.073	113	79847	50.82	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.64%			
49) 1,2-Dichloroethane-d4	8.665	65	91498	50.73	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.46%			
62) Toluene-d8	10.542	98	289645	47.39	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 94.78%			
86) 4-Bromofluorobenzene	13.328	95	93042	51.27	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.54%			
Target Compounds						Qvalue
21) trans-1,2-Dichloroethene	6.177	61	2072	1.00	ug/L	92
32) cis-1,2-Dichloroethene	7.579	96	21293	14.06	ug/L	98
52) Trichloroethene	9.128	95	8211	5.34	ug/L	84

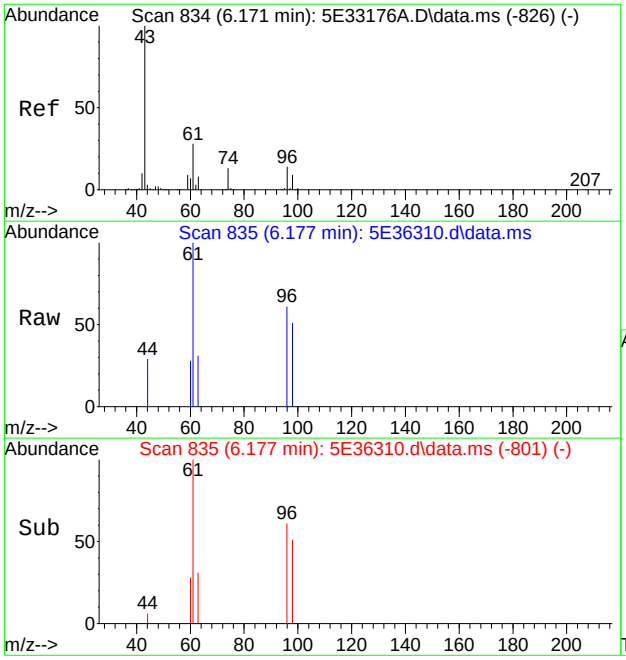
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36310.d
Acq On : 27 Dec 2022 3:46 pm
Operator : joannel
Sample : FC1584-2 Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 03:14:56 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

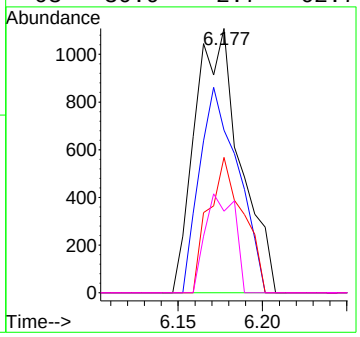


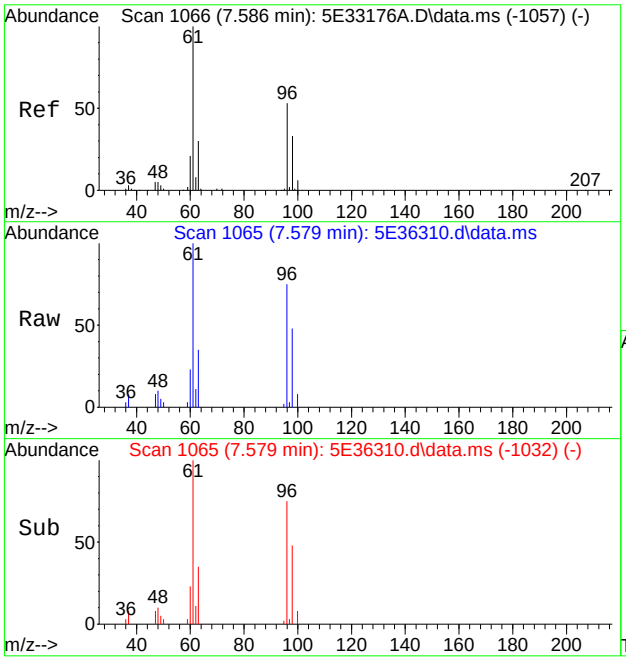


#21
trans-1,2-Dichloroethene
Concen: 1.00 ug/L
RT: 6.177 min Scan# 835
Delta R.T. 0.006 min
Lab File: 5E36310.d
Acq: 27 Dec 2022 3:46 pm

Tgt Ion: 61 Resp: 2072

Ion	Ratio	Lower	Upper
61	100		
96	61.5	38.5	98.5
98	51.2	14.9	74.9
63	30.9	2.7	62.7

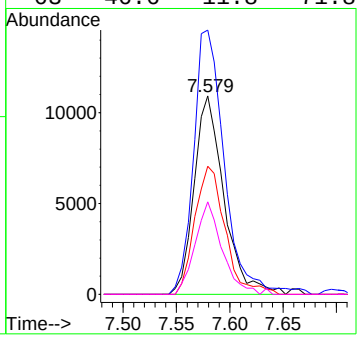


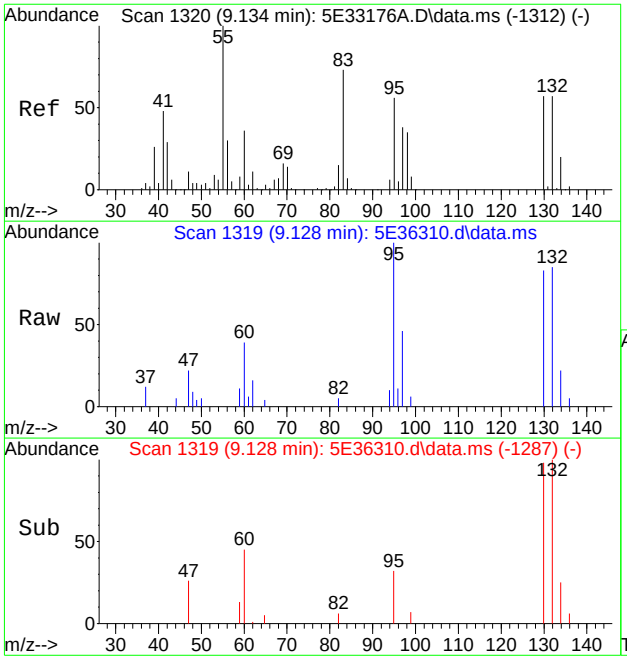


#32
cis-1,2-Dichloroethene
Concen: 14.06 ug/L
RT: 7.579 min Scan# 1065
Delta R.T. -0.001 min
Lab File: 5E36310.d
Acq: 27 Dec 2022 3:46 pm

Tgt Ion: 96 Resp: 21293

Ion	Ratio	Lower	Upper
96	100		
61	133.2	105.3	165.3
98	64.6	34.3	94.3
63	46.6	11.8	71.8

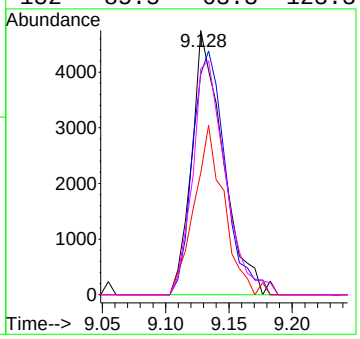




#52
Trichloroethene
Concen: 5.34 ug/L
RT: 9.128 min Scan# 1319
Delta R.T. -0.006 min
Lab File: 5E36310.d
Acq: 27 Dec 2022 3:46 pm

Tgt Ion: 95 Resp: 8211

Ion	Ratio	Lower	Upper
95	100		
130	83.4	71.6	131.6
97	46.1	35.9	95.9
132	85.5	63.3	123.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36311.d
Acq On : 27 Dec 2022 4:09 pm
Operator : joannel
Sample : FC1584-3 Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 03:16:02 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

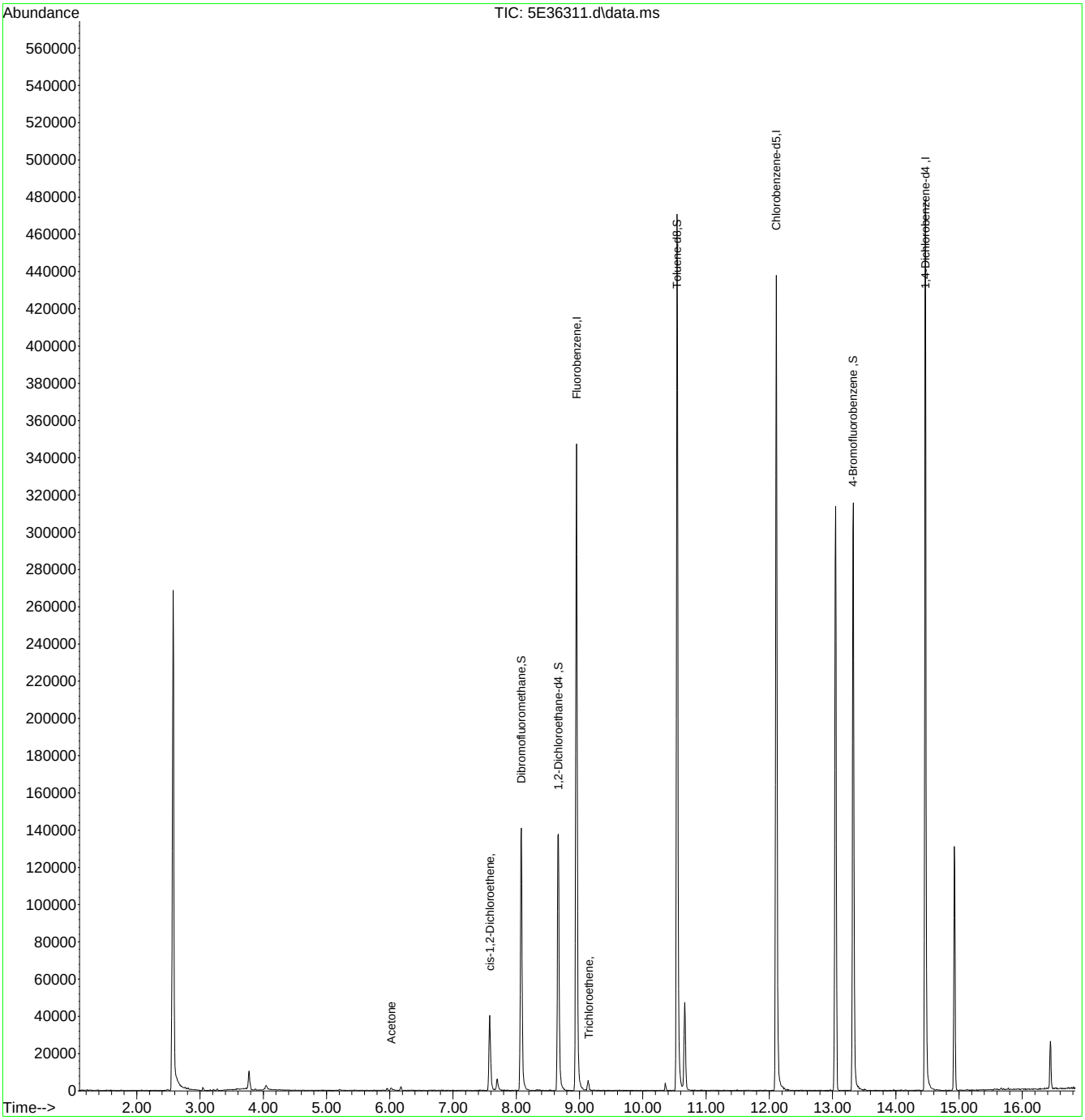
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	275550	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	218496	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	107176	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.079	113	79572	52.12	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.24%			
49) 1,2-Dichloroethane-d4	8.665	65	88741	50.62	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.24%			
62) Toluene-d8	10.542	98	284064	47.64	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.28%			
86) 4-Bromofluorobenzene	13.322	95	92008	51.61	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.22%			
Target Compounds						Qvalue
19) Acetone	6.025	43	1508	3.41	ug/L	92
32) cis-1,2-Dichloroethene	7.580	96	16881	11.47	ug/L	96
52) Trichloroethene	9.146	95	1930	1.29	ug/L #	67

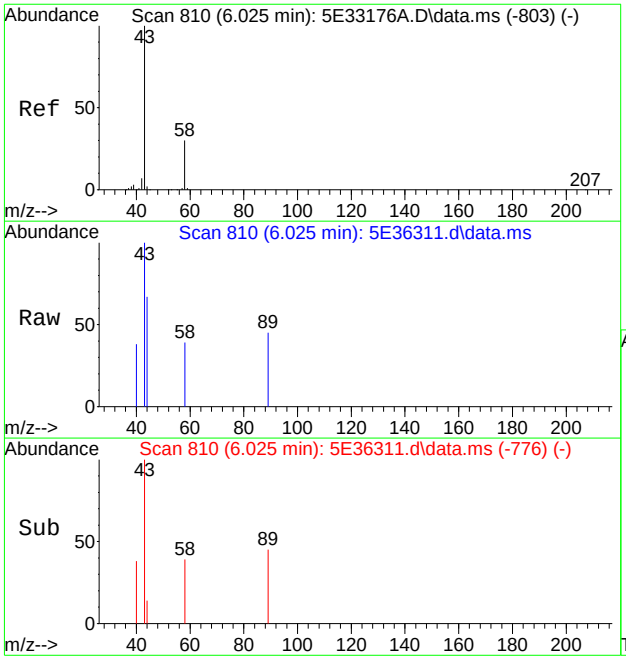
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36311.d
Acq On : 27 Dec 2022 4:09 pm
Operator : joannel
Sample : FC1584-3 Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 03:16:02 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

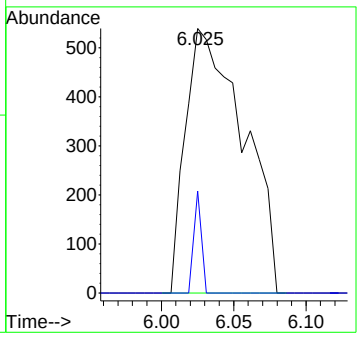


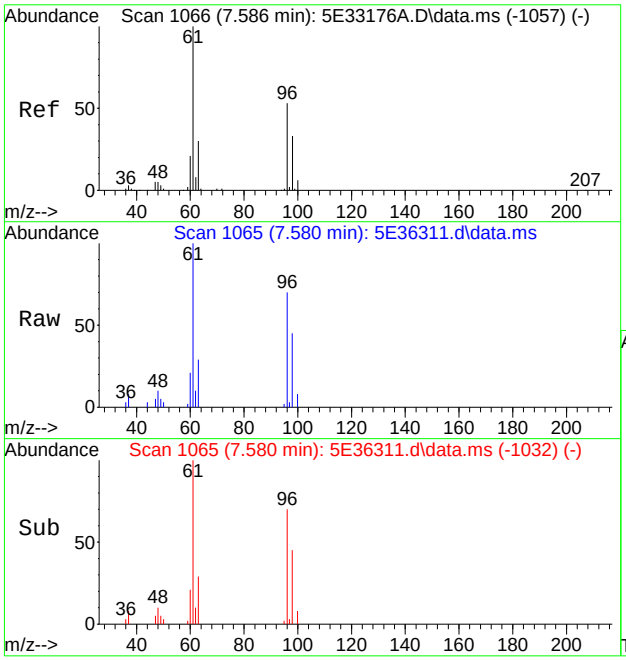


#19
Acetone
Concen: 3.41 ug/L
RT: 6.025 min Scan# 810
Delta R.T. 0.006 min
Lab File: 5E36311.d
Acq: 27 Dec 2022 4:09 pm

Tgt Ion: 43 Resp: 1508

Ion	Ratio	Lower	Upper
43	100		
58	38.5	3.7	63.7

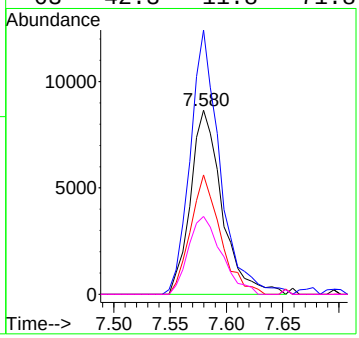


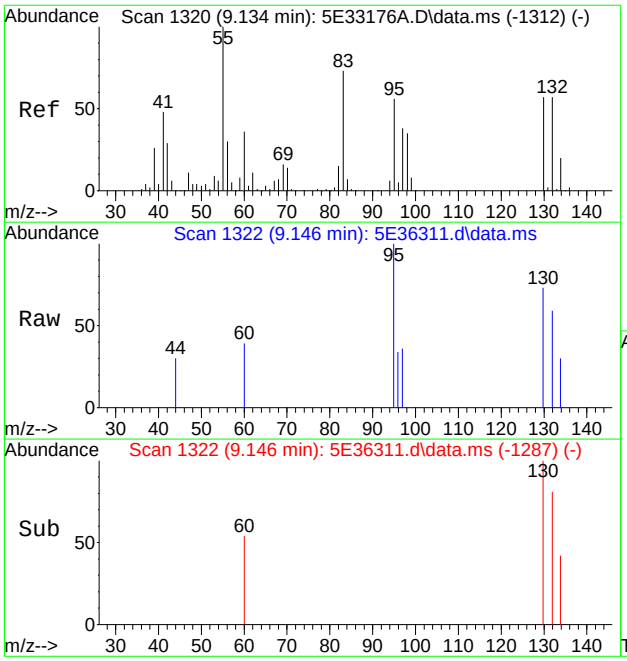


#32
cis-1,2-Dichloroethene
Concen: 11.47 ug/L
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: 5E36311.d
Acq: 27 Dec 2022 4:09 pm

Tgt Ion: 96 Resp: 16881

Ion	Ratio	Lower	Upper
96	100		
61	143.6	105.3	165.3
98	64.8	34.3	94.3
63	42.3	11.8	71.8

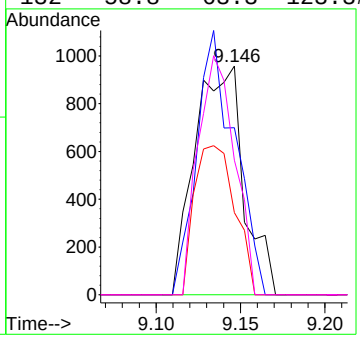




#52
Trichloroethene
Concen: 1.29 ug/L
RT: 9.146 min Scan# 1322
Delta R.T. 0.012 min
Lab File: 5E36311.d
Acq: 27 Dec 2022 4:09 pm

Tgt Ion: 95 Resp: 1930

Ion	Ratio	Lower	Upper
95	100		
130	73.0	71.6	131.6
97	35.9	35.9	95.9
132	58.8	63.3	123.3#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36312.d
Acq On : 27 Dec 2022 4:32 pm
Operator : joannel
Sample : FC1584-4 Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 03:17:13 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

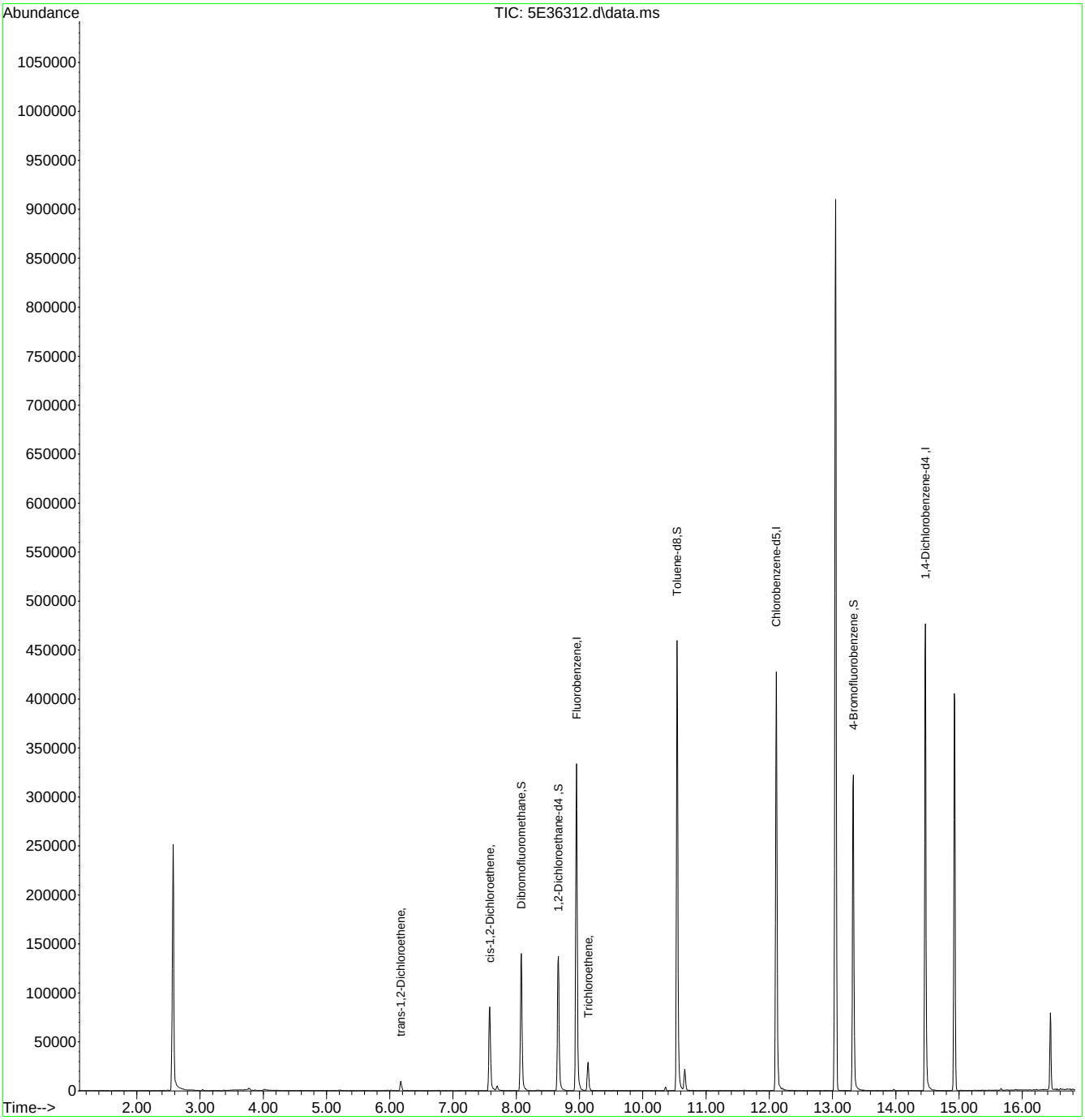
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	271727	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	217365	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	108299	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.079	113	77821	51.69	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.38%			
49) 1,2-Dichloroethane-d4	8.665	65	87174	50.43	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.86%			
62) Toluene-d8	10.542	98	282619	47.64	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.28%			
86) 4-Bromofluorobenzene	13.328	95	92656	51.43	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.86%			
Target Compounds						Qvalue
21) trans-1,2-Dichloroethene	6.171	61	5108	2.57	ug/L	92
32) cis-1,2-Dichloroethene	7.580	96	36183	24.94	ug/L	97
52) Trichloroethene	9.134	95	8511	5.77	ug/L	88

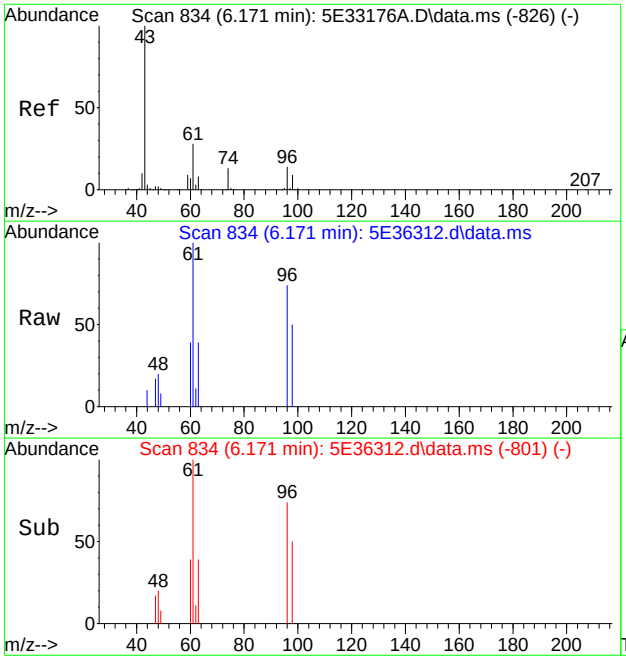
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36312.d
Acq On : 27 Dec 2022 4:32 pm
Operator : joannel
Sample : FC1584-4 Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 03:17:13 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

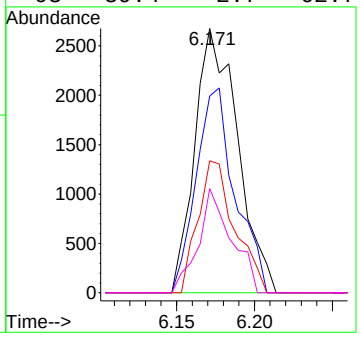


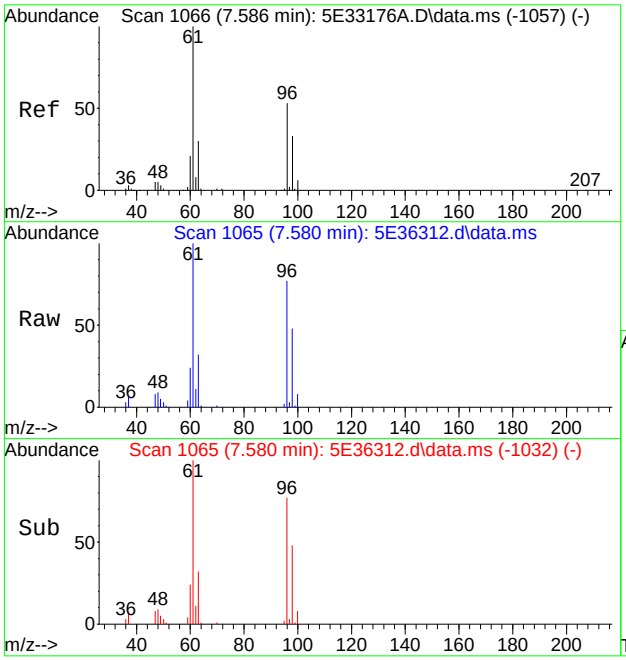


#21
trans-1,2-Dichloroethene
Concen: 2.57 ug/L
RT: 6.171 min Scan# 834
Delta R.T. 0.000 min
Lab File: 5E36312.d
Acq: 27 Dec 2022 4:32 pm

Tgt Ion: 61 Resp: 5108

Ion	Ratio	Lower	Upper
61	100		
96	74.5	38.5	98.5
98	49.9	14.9	74.9
63	39.4	2.7	62.7

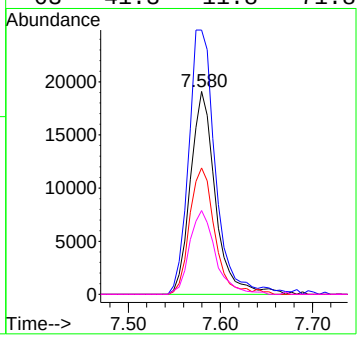


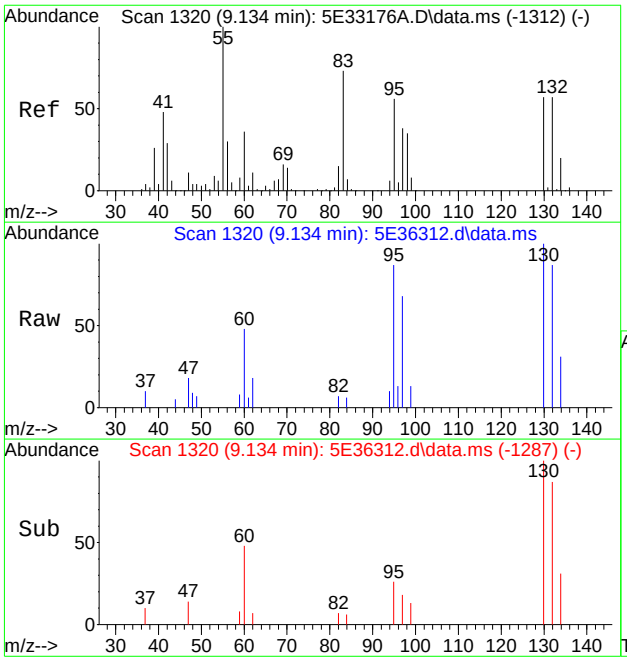


#32
cis-1,2-Dichloroethene
Concen: 24.94 ug/L
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: 5E36312.d
Acq: 27 Dec 2022 4:32 pm

Tgt Ion: 96 Resp: 36183

Ion	Ratio	Lower	Upper
96	100		
61	130.2	105.3	165.3
98	62.3	34.3	94.3
63	41.3	11.8	71.8

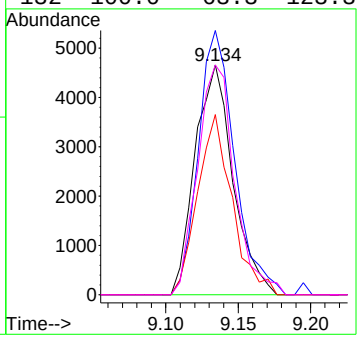




#52
Trichloroethene
Concen: 5.77 ug/L
RT: 9.134 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 5E36312.d
Acq: 27 Dec 2022 4:32 pm

Tgt Ion: 95 Resp: 8511

Ion	Ratio	Lower	Upper
95	100		
130	115.1	71.6	131.6
97	78.5	35.9	95.9
132	100.0	63.3	123.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36313.d
Acq On : 27 Dec 2022 4:55 pm
Operator : joannel
Sample : FC1584-5 Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 03:18:05 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

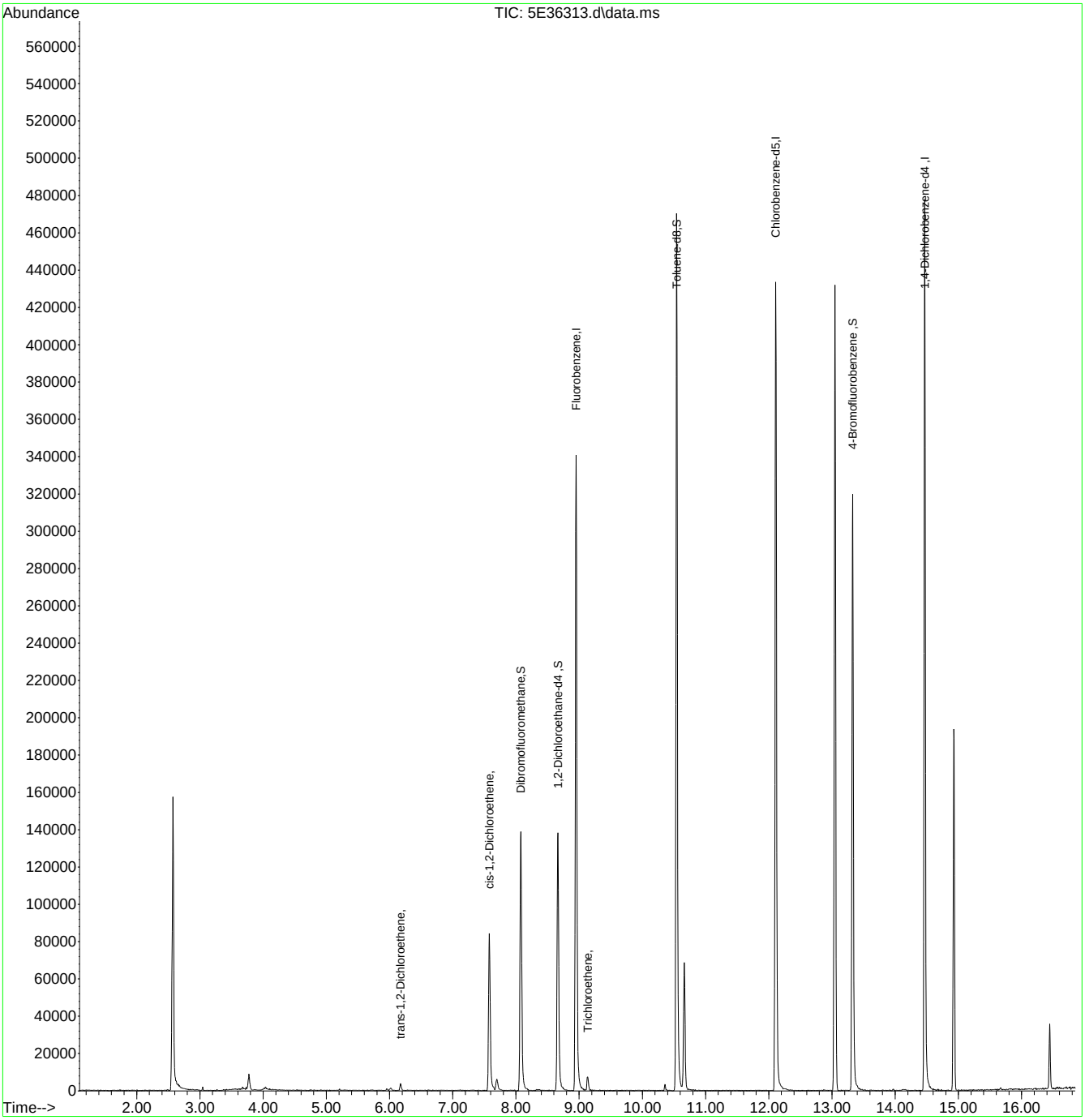
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	274513	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	220297	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	106507	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.073	113	78541	51.64	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.28%			
49) 1,2-Dichloroethane-d4	8.665	65	90277	51.69	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.38%			
62) Toluene-d8	10.542	98	284119	47.26	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 94.52%			
86) 4-Bromofluorobenzene	13.328	95	90552	51.11	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.22%			
Target Compounds						Qvalue
21) trans-1,2-Dichloroethene	6.171	61	2157	1.08	ug/L	93
32) cis-1,2-Dichloroethene	7.579	96	35657	24.33	ug/L	97
52) Trichloroethene	9.134	95	2395	1.61	ug/L	91

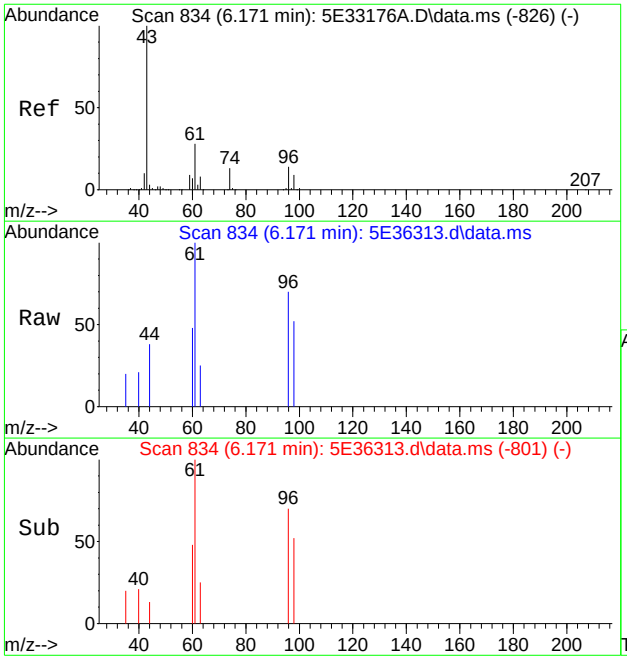
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36313.d
Acq On : 27 Dec 2022 4:55 pm
Operator : joannel
Sample : FC1584-5 Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 03:18:05 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

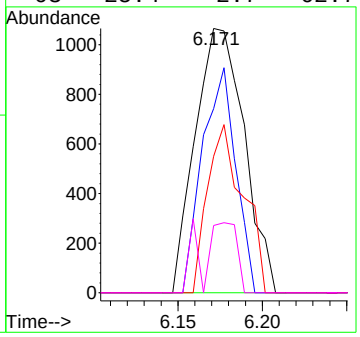


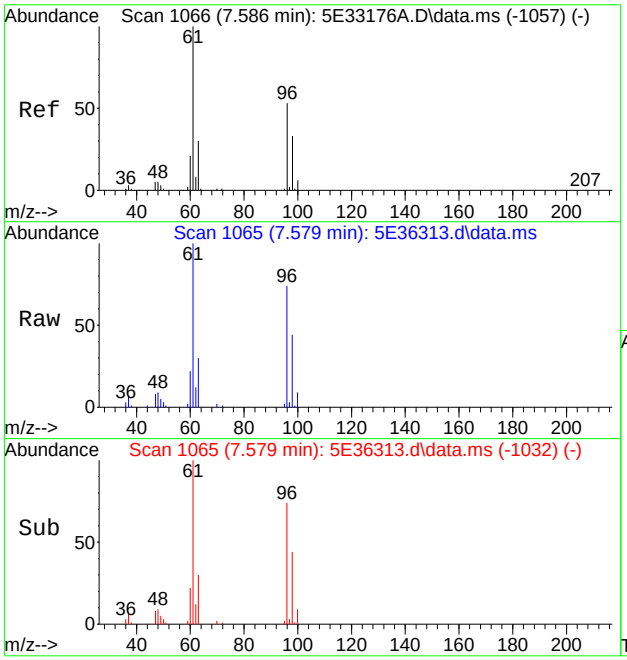


#21
trans-1,2-Dichloroethene
Concen: 1.08 ug/L
RT: 6.171 min Scan# 834
Delta R.T. 0.000 min
Lab File: 5E36313.d
Acq: 27 Dec 2022 4:55 pm

Tgt Ion: 61 Resp: 2157

Ion	Ratio	Lower	Upper
61	100		
96	69.6	38.5	98.5
98	51.6	14.9	74.9
63	25.4	2.7	62.7

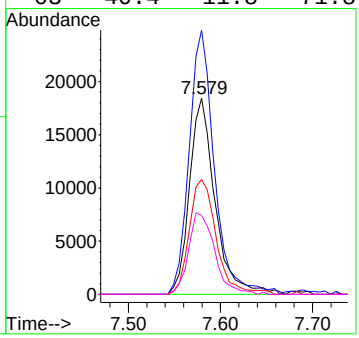


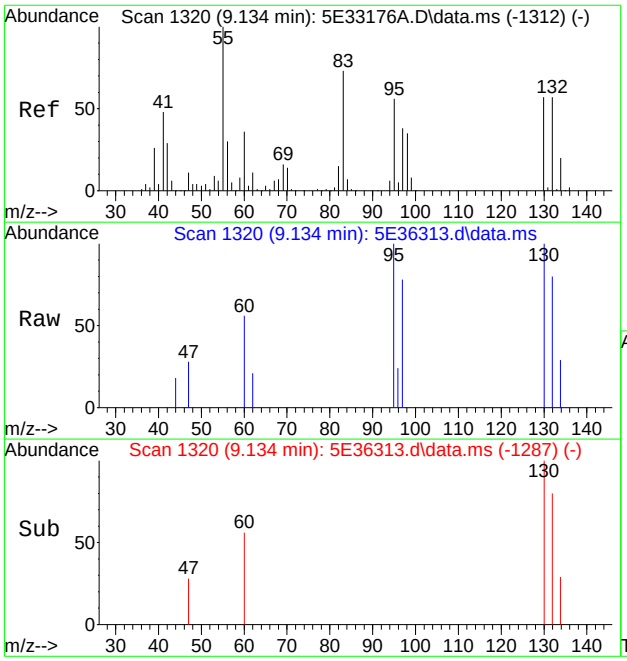


#32
cis-1,2-Dichloroethene
Concen: 24.33 ug/L
RT: 7.579 min Scan# 1065
Delta R.T. -0.001 min
Lab File: 5E36313.d
Acq: 27 Dec 2022 4:55 pm

Tgt Ion: 96 Resp: 35657

Ion	Ratio	Lower	Upper
96	100		
61	134.7	105.3	165.3
98	58.6	34.3	94.3
63	40.4	11.8	71.8

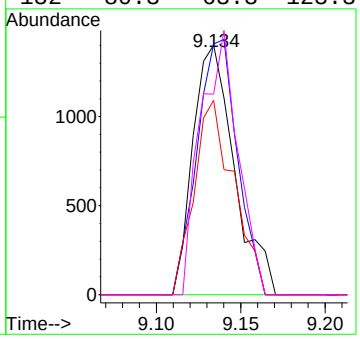




#52
Trichloroethene
Concen: 1.61 ug/L
RT: 9.134 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 5E36313.d
Acq: 27 Dec 2022 4:55 pm

Tgt Ion: 95 Resp: 2395

Ion	Ratio	Lower	Upper
95	100		
130	100.4	71.6	131.6
97	77.9	35.9	95.9
132	80.3	63.3	123.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36314.d
Acq On : 27 Dec 2022 5:18 pm
Operator : joannel
Sample : FC1584-6 Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 03:19:11 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

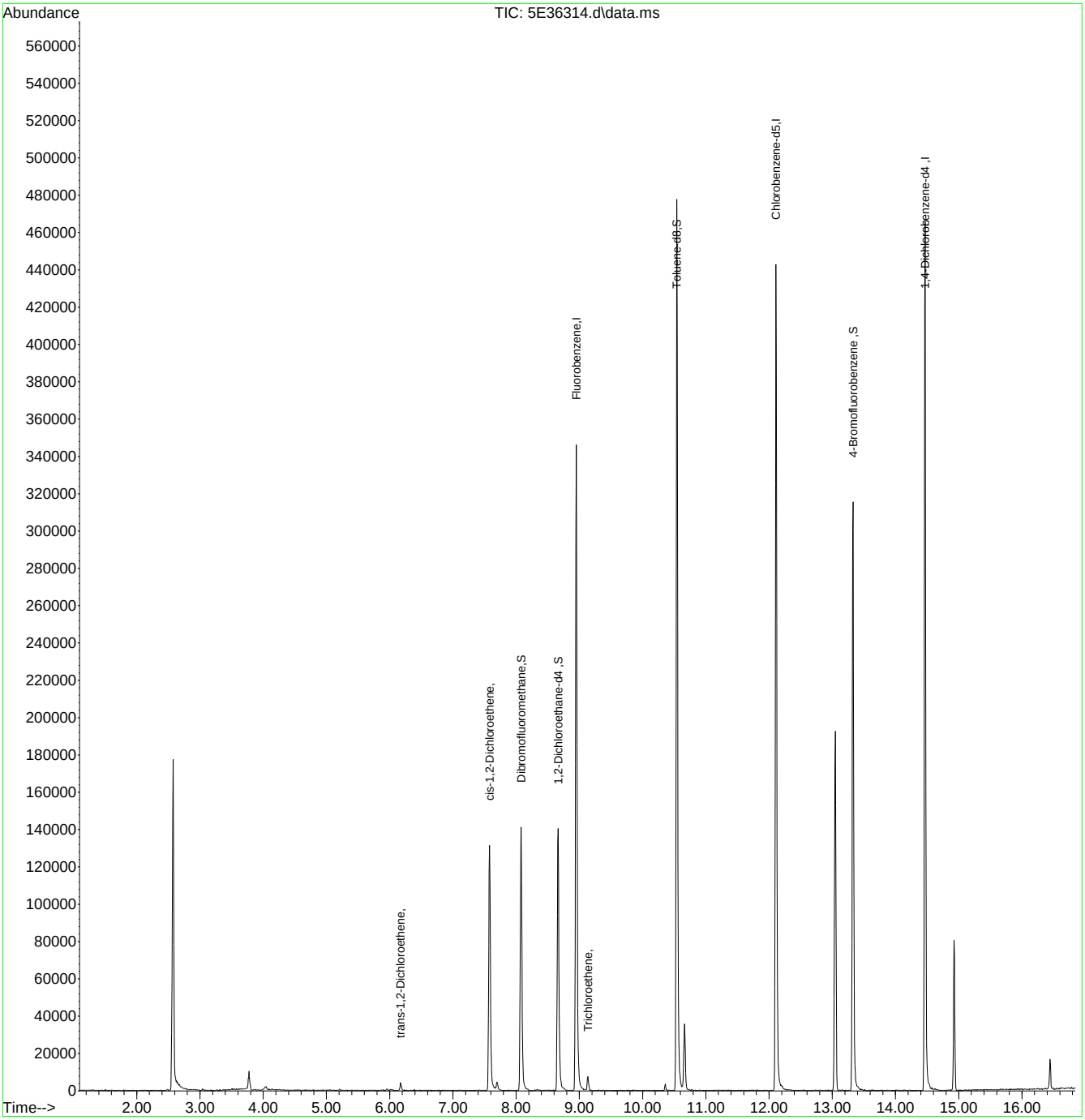
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	276370	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	218901	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	108191	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.079	113	79884	52.17	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.34%			
49) 1,2-Dichloroethane-d4	8.665	65	89644	50.99	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.98%			
62) Toluene-d8	10.542	98	286868	48.02	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.04%			
86) 4-Bromofluorobenzene	13.328	95	90843	50.48	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.96%			
Target Compounds						Qvalue
21) trans-1,2-Dichloroethene	6.171	61	2365	1.17	ug/L	79
32) cis-1,2-Dichloroethene	7.580	96	54633	37.02	ug/L	97
52) Trichloroethene	9.134	95	2448	1.63	ug/L	91

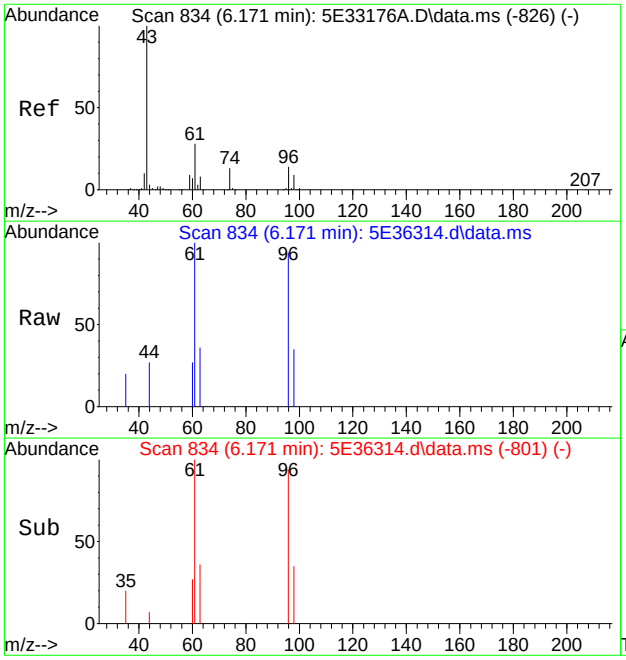
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36314.d
Acq On : 27 Dec 2022 5:18 pm
Operator : joannel
Sample : FC1584-6 Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 03:19:11 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

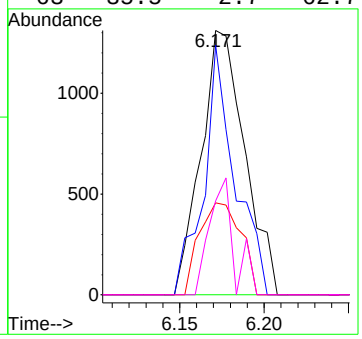


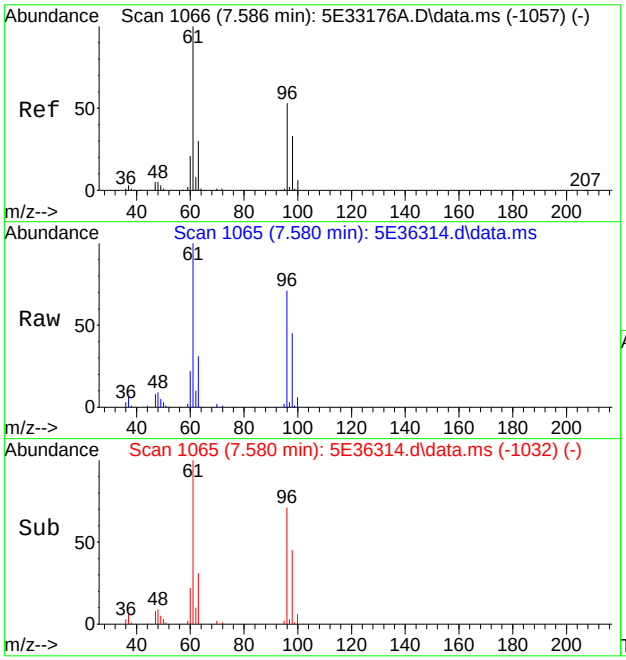


#21
trans-1,2-Dichloroethene
Concen: 1.17 ug/L
RT: 6.171 min Scan# 834
Delta R.T. 0.000 min
Lab File: 5E36314.d
Acq: 27 Dec 2022 5:18 pm

Tgt Ion: 61 Resp: 2365

Ion	Ratio	Lower	Upper
61	100		
96	94.4	38.5	98.5
98	34.8	14.9	74.9
63	35.5	2.7	62.7

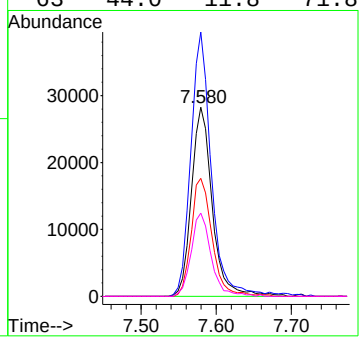


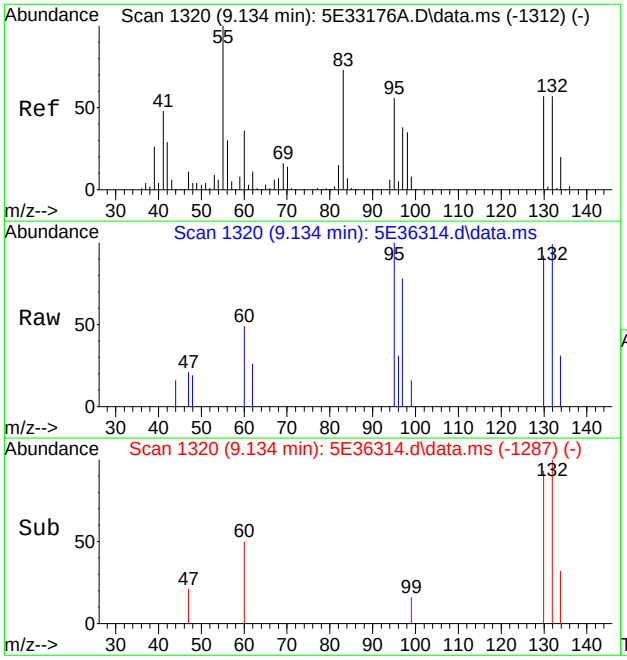


#32
cis-1,2-Dichloroethene
Concen: 37.02 ug/L
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: 5E36314.d
Acq: 27 Dec 2022 5:18 pm

Tgt Ion: 96 Resp: 54633

Ion	Ratio	Lower	Upper
96	100		
61	139.9	105.3	165.3
98	62.4	34.3	94.3
63	44.0	11.8	71.8

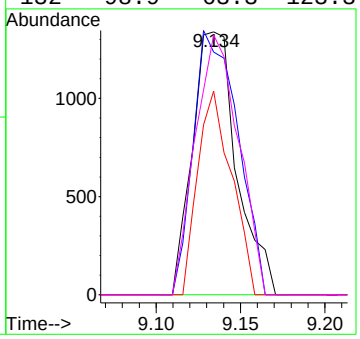




#52
Trichloroethene
Concen: 1.63 ug/L
RT: 9.134 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 5E36314.d
Acq: 27 Dec 2022 5:18 pm

Tgt Ion: 95 Resp: 2448

Ion	Ratio	Lower	Upper
95	100		
130	92.3	71.6	131.6
97	77.5	35.9	95.9
132	98.9	63.3	123.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36308.d
Acq On : 27 Dec 2022 2:59 pm
Operator : joannel
Sample : FC1584-7 Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 03:12:40 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

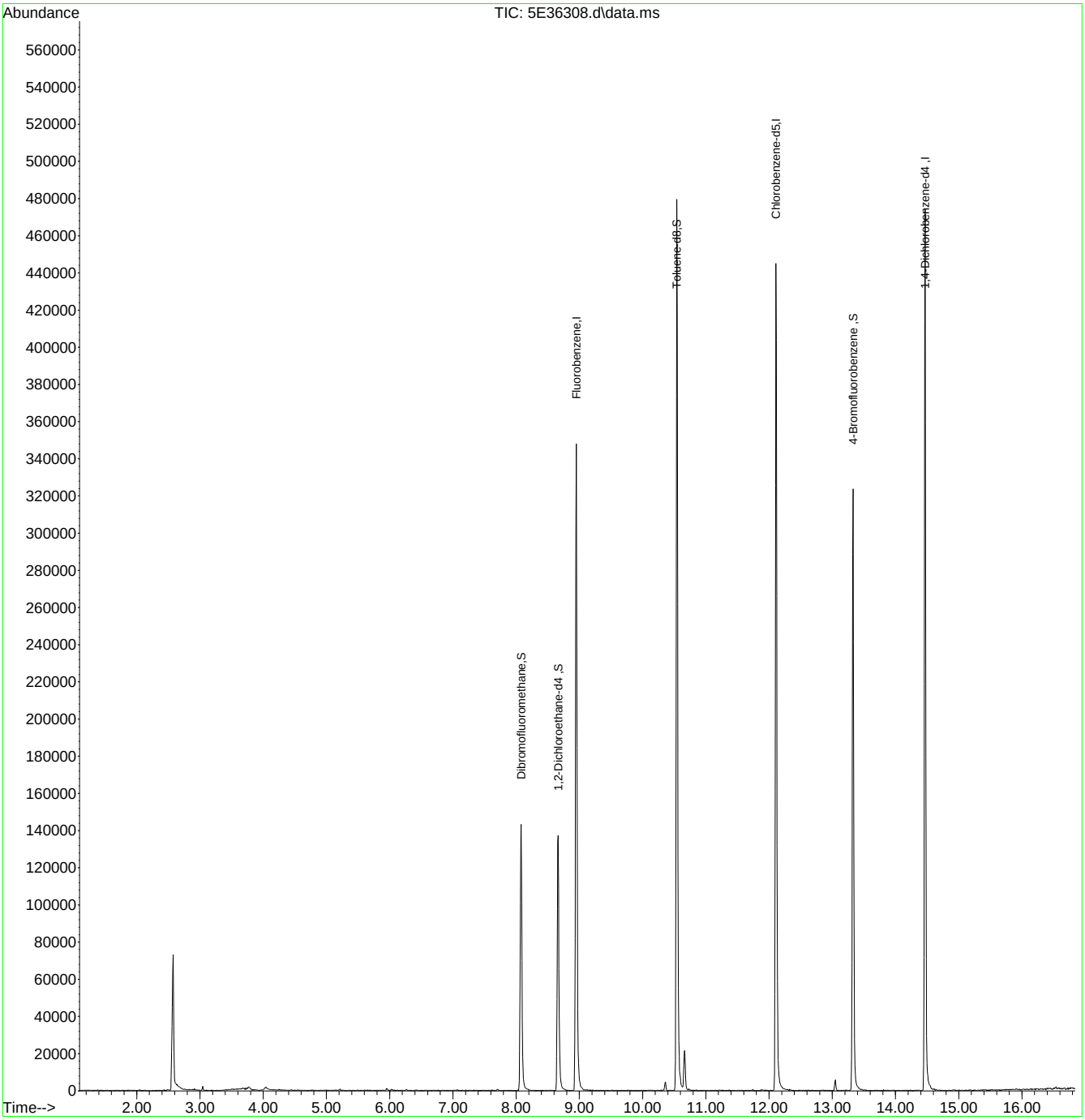
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	277851	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	223899	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	107395	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.079	113	81380	52.86	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.72%			
49) 1,2-Dichloroethane-d4	8.665	65	89464	50.61	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.22%			
62) Toluene-d8	10.542	98	289513	47.38	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 94.76%			
86) 4-Bromofluorobenzene	13.328	95	91625	51.29	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.58%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36308.d
Acq On : 27 Dec 2022 2:59 pm
Operator : joannel
Sample : FC1584-7 Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 03:12:40 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36301.d
Acq On : 27 Dec 2022 12:18 pm
Operator : joannel
Sample : MB Inst : MSVOA20
Misc : MS52751,V5E1632,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 03:02:58 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

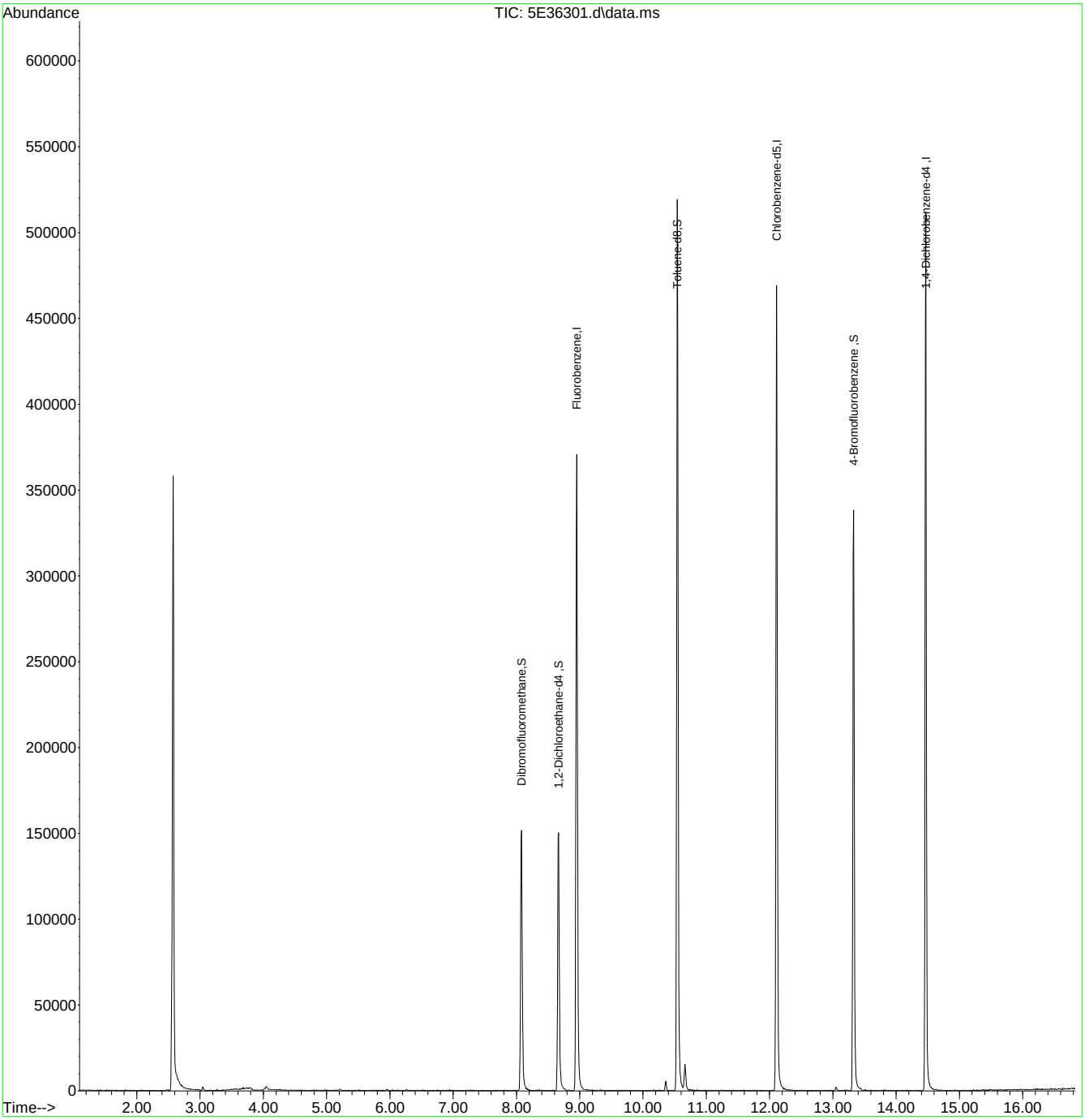
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	303042	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	237919	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	112797	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.079	113	85963	51.20	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.40%			
49) 1,2-Dichloroethane-d4	8.665	65	96894	50.26	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.52%			
62) Toluene-d8	10.542	98	310541	47.83	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.66%			
86) 4-Bromofluorobenzene	13.328	95	96334	51.34	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.68%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36301.d
Acq On : 27 Dec 2022 12:18 pm
Operator : joannel
Sample : MB Inst : MSVOA20
Misc : MS52751,V5E1632,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 03:02:58 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36298.d
Acq On : 27 Dec 2022 11:08 am
Operator : joannel
Sample : BS Inst : MSVOA20
Misc : MS52751,V5E1632,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:56:19 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	338471	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	271134	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	134923	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.073	113	97128	51.79	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.58%			
49) 1,2-Dichloroethane-d4	8.665	65	112025	52.03	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 104.06%			
62) Toluene-d8	10.542	98	344307	46.53	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 93.06%			
86) 4-Bromofluorobenzene	13.328	95	113939	50.77	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.54%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.849	85	51631	24.98	ug/L	95
3) Chloromethane	3.221	50	52113	26.30	ug/L	98
4) Vinyl Chloride	3.373	62	58634	27.86	ug/L	100
5) 1,3-Butadiene	3.403	39	47814	35.53	ug/L	92
6) Bromomethane	3.940	94	24639	22.34	ug/L	96
7) Chloroethane	4.153	64	45874	27.35	ug/L	97
8) Trichlorofluoromethane	4.385	101	78783	30.95	ug/L	95
9) Ethyl Ether	4.867	59	36692	24.51	ug/L	97
10) Ethanol	5.104	45	6186	517.03	ug/L	100
11) 1,2-Dichlorotrifluoroe...	5.153	67	58489	27.35	ug/L	95
12) 1,1-Dichloroethene	5.159	61	68373	25.69	ug/L	96
13) Freon 113	5.220	101	49320	27.49	ug/L	96
14) Carbon Disulfide	5.208	76	133728	26.71	ug/L	98
15) Iodomethane	5.367	142	34110	13.97	ug/L	98
16) Acrolein	5.629	56	44235	137.53	ug/L	96
17) Allyl chloride	5.818	41	53011	28.93	ug/L	97
18) Methylene Chloride	5.958	49	58768	22.99	ug/L	94
19) Acetone	6.019	43	71894	137.12	ug/L	97
20) Methyl acetate	6.171	43	148520	143.55	ug/L	98
21) trans-1,2-Dichloroethene	6.171	61	63837	25.83	ug/L	98
22) Hexane	6.263	56	45152	30.42	ug/L #	89
23) Methyl Tert Butyl Ether	6.293	73	123427	25.03	ug/L	93
24) Acetonitrile	6.616	41	44033	260.45	ug/L	94
25) Di-isopropyl ether	6.750	45	126274	26.68	ug/L	96
26) Chloroprene	6.909	53	68775	31.02	ug/L	98
27) 1,1-Dichloroethane	6.939	63	85733	26.16	ug/L	98
28) Acrylonitrile	6.994	53	81130	131.01	ug/L	95
29) ETBE	7.189	59	140326	25.65	ug/L	93
30) Tert Butyl Alcohol	6.391	59	61411	237.02	ug/L	97
31) Vinyl acetate	7.214	43	468345	145.50	ug/L	98
32) cis-1,2-Dichloroethene	7.580	96	47676	26.38	ug/L	97
33) 2,2-Dichloropropane	7.701	77	64547	24.65	ug/L	95
34) Bromochloromethane	7.811	128	23576	26.81	ug/L	95
35) Cyclohexane	7.823	56	88303	30.44	ug/L	95
36) Chloroform	7.872	83	79299	24.87	ug/L	97
37) Ethyl acetate	7.976	43	212156	133.48	ug/L	99
38) Tetrahydrofuran	8.067	42	12900	26.10	ug/L	95
40) Carbon Tetrachloride	8.049	117	64379	27.69	ug/L	98
41) 1,1,1-Trichloroethane	8.122	97	70494	26.55	ug/L	99
42) 2-Butanone	8.201	43	108652	136.05	ug/L	99
43) 1,1-Dichloropropene	8.250	75	61424	25.68	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36298.d
Acq On : 27 Dec 2022 11:08 am
Operator : joannel
Sample : BS Inst : MSVOA20
Misc : MS52751,V5E1632,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:56:19 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl formate	8.354	59	172195	246.12	ug/L		96
45) Propionitrile	8.531	54	77022	263.35	ug/L		97
46) Methacrylonitrile	8.555	41	280213	286.30	ug/L		99
47) Benzene	8.524	78	169026	24.62	ug/L		98
48) TAME	8.604	73	125941	25.78	ug/L		95
50) 1,2-Dichloroethane	8.732	62	65977	25.30	ug/L		100
51) tert Amyl alcohol	8.787	59	48781	271.77	ug/L		97
52) Trichloroethene	9.128	95	47585	25.90	ug/L		96
53) Methylcyclohexane	9.128	83	90144	31.13	ug/L		97
54) Dibromomethane	9.579	93	29811	24.66	ug/L		96
55) 1,2-Dichloropropane	9.671	63	45890	23.49	ug/L		97
56) Bromodichloromethane	9.719	83	59683	25.84	ug/L		96
57) Methyl methacrylate	9.835	41	38339	27.37	ug/L		97
58) 1,4-Dioxane	9.921	88	9506	573.65	ug/L		96
59) 2-Chloroethyl vinyl ether	10.256	63	118729	111.90	ug/L		97
60) cis-1,3-Dichloropropene	10.353	75	66138	25.38	ug/L		92
63) Toluene	10.597	91	181718	22.67	ug/L		98
64) Isobutyl alcohol	8.677	43	36675	480.84	ug/L		95
65) 2-Nitropropane	10.829	41	71955	119.71	ug/L		98
66) 4-Methyl-2-pentanone	10.939	43	246716	118.52	ug/L		98
67) trans-1,3-Dichloropropene	11.000	75	65015	25.39	ug/L		88
68) Tetrachloroethene	11.000	166	48623	24.67	ug/L		96
69) Ethyl methacrylate	11.103	69	52376	20.91	ug/L		99
70) 1,1,2-Trichloroethane	11.164	83	35092	22.53	ug/L		92
71) Dibromochloromethane	11.359	129	47094	23.23	ug/L		93
72) 1,3-Dichloropropane	11.451	76	66872	21.53	ug/L		98
73) 1,2-Dibromoethane	11.621	107	44126	23.50	ug/L		100
74) 3,3-Dimethyl-1-butanol	11.707	57	246217	1214.07	ug/L		99
75) 2-hexanone	11.762	43	172843	120.72	ug/L		98
76) 1-Chlorohexane	12.060	91	68452	25.87	ug/L		97
77) Ethylbenzene	12.121	91	209295	22.82	ug/L		98
78) Chlorobenzene	12.127	112	122881	23.09	ug/L		98
79) 1,1,1,2-Tetrachloroethane	12.176	131	43930	24.00	ug/L		96
80) m,p-Xylene	12.262	91	312547	45.93	ug/L		98
81) o-Xylene	12.707	91	154448	23.79	ug/L		99
82) Styrene	12.755	104	115523	23.17	ug/L		98
83) Bromoform	12.816	173	30456	23.39	ug/L		95
84) Isopropylbenzene	13.005	105	204937	24.35	ug/L		99
87) cis-1,4-Dichloro-2-butene	13.682	53	15026	22.88	ug/L	#	68
88) n-Propylbenzene	13.426	91	255605	23.75	ug/L		95
89) Bromobenzene	13.456	156	45368	21.67	ug/L		91
90) 1,1,2,2-Tetrachloroethane	13.493	83	61691	23.46	ug/L		97
91) 1,3,5-Trimethylbenzene	13.609	105	164664	23.22	ug/L		99
92) 2-Chlorotoluene	13.621	91	153598	23.26	ug/L		99
93) trans-1,4-Dichloro-2-B...	13.682	53	15026	22.88	ug/L	#	67
94) 1,2,3-Trichloropropane	13.664	110	16081	20.86	ug/L		97
95) Cyclohexanone	13.737	55	13533	199.35	ug/L		95
96) 4-Chlorotoluene	13.792	91	133526	22.70	ug/L		100
98) tert-Butylbenzene	13.950	91	90157	23.52	ug/L		95
99) 1,2,4-Trimethylbenzene	14.017	105	164100	23.87	ug/L		96
100) Pentachloroethane	14.005	167	29540	23.87	ug/L		96
101) sec-Butylbenzene	14.133	105	224379	25.73	ug/L		99
102) 4-Isopropyltoluene	14.261	119	189942	24.85	ug/L		97
103) 1,3-Dichlorobenzene	14.401	146	92738	23.72	ug/L		98
104) 1,2,3-Trimethylbenzene	14.475	105	171932	24.78	ug/L		99
105) 1,4-Dichlorobenzene	14.481	146	98131	22.94	ug/L		95
106) n-Butylbenzene	14.682	92	97175	23.98	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36298.d
Acq On : 27 Dec 2022 11:08 am
Operator : joannel
Sample : BS Inst : MSVOA20
Misc : MS52751,V5E1632,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:56:19 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

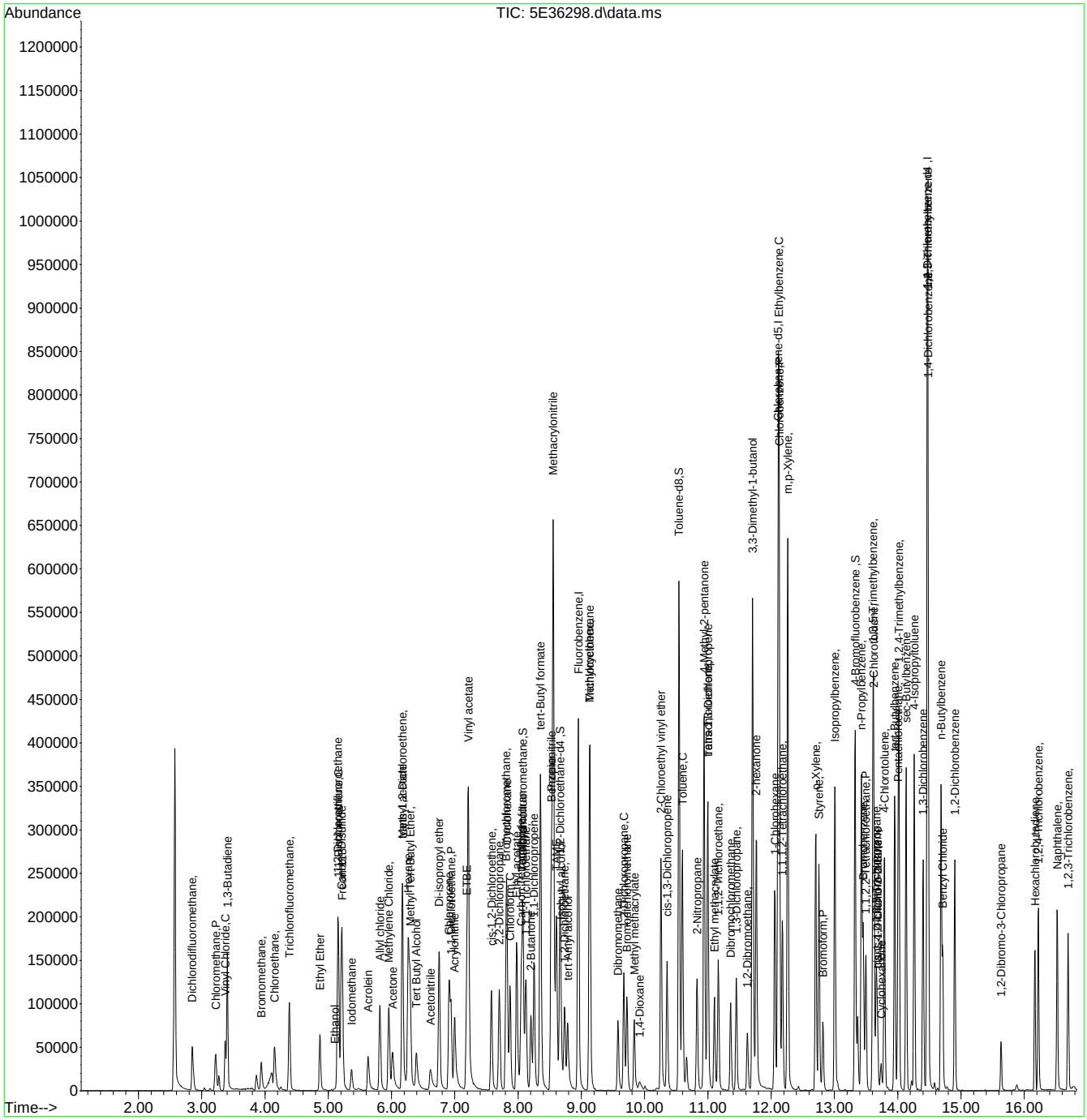
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) Benzyl Chloride	14.712	126	19422	23.11	ug/L	96
108) 1,2-Dichlorobenzene	14.901	146	86624	23.14	ug/L	98
109) 1,2-Dibromo-3-Chloropr...	15.633	75	8317	20.49	ug/L	93
110) Hexachlorobutadiene	16.169	225	20189	25.53	ug/L	95
111) 1,2,4-Trichlorobenzene	16.224	180	50048	23.99	ug/L	96
112) Naphthalene	16.523	128	140529	24.60	ug/L	99
113) 1,2,3-Trichlorobenzene	16.694	180	43180	24.57	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36298.d
Acq On : 27 Dec 2022 11:08 am
Operator : joannel
Sample : BS Inst : MSVOA20
Misc : MS52751,V5E1632,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:56:19 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36320.d
Acq On : 27 Dec 2022 7:36 pm
Operator : joannel
Sample : FC1588-1MS 5X Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,5
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:58:07 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	313008	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	252450	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	128562	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.079	113	89724	51.73	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.46%			
49) 1,2-Dichloroethane-d4	8.665	65	100296	50.37	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.74%			
62) Toluene-d8	10.542	98	319667	46.40	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 92.80%			
86) 4-Bromofluorobenzene	13.328	95	103423	48.36	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.72%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.849	85	54399	28.46	ug/L	98
3) Chloromethane	3.215	50	52770	28.79	ug/L	100
4) Vinyl Chloride	3.373	62	62001	31.86	ug/L	96
5) 1,3-Butadiene	3.403	39	48448	38.93	ug/L	99
6) Bromomethane	3.940	94	24093	23.62	ug/L	96
7) Chloroethane	4.153	64	45053	28.51	ug/L	95
8) Trichlorofluoromethane	4.385	101	84282	35.81	ug/L	93
9) Ethyl Ether	4.867	59	36943	26.69	ug/L	96
10) Ethanol	5.104	45	12939	1169.43	ug/L	90
11) 1,2-Dichlorotrifluoroe...	5.147	67	55231	27.93	ug/L	96
12) 1,1-Dichloroethene	5.159	61	77091	31.32	ug/L	99
13) Freon 113	5.220	101	49740	29.98	ug/L	96
14) Carbon Disulfide	5.208	76	133321	28.80	ug/L	98
15) Iodomethane	5.367	142	39586	17.47	ug/L	98
16) Acrolein	5.629	56	39823	133.88	ug/L	95
17) Allyl chloride	5.818	41	49364	29.13	ug/L	98
18) Methylene Chloride	5.958	49	61913	26.32	ug/L	94
19) Acetone	6.013	43	55249	113.21	ug/L	96
20) Methyl acetate	6.171	43	138940	145.22	ug/L	99
21) trans-1,2-Dichloroethene	6.171	61	66275	28.99	ug/L	96
22) Hexane	6.263	56	43604	31.76	ug/L	97
23) Methyl Tert Butyl Ether	6.293	73	125719	27.57	ug/L	95
24) Acetonitrile	6.610	41	40934	261.82	ug/L	96
25) Di-isopropyl ether	6.750	45	123742	28.27	ug/L	97
26) Chloroprene	6.909	53	63401	30.92	ug/L	98
27) 1,1-Dichloroethane	6.939	63	88717	29.27	ug/L	98
28) Acrylonitrile	6.994	53	79734	139.23	ug/L	95
29) ETBE	7.189	59	137043	27.08	ug/L	99
30) Tert Butyl Alcohol	6.391	59	57969	242.13	ug/L	94
31) Vinyl acetate	7.214	43	461998	155.20	ug/L	97
32) cis-1,2-Dichloroethene	7.580	96	49074	29.36	ug/L	94
33) 2,2-Dichloropropane	7.701	77	61018	25.20	ug/L	98
34) Bromochloromethane	7.805	128	23743	29.20	ug/L	96
35) Cyclohexane	7.823	56	87464	32.61	ug/L	97
36) Chloroform	7.872	83	82711	28.06	ug/L	92
37) Ethyl acetate	7.976	43	203901	138.73	ug/L	99
38) Tetrahydrofuran	8.067	42	10931	23.92	ug/L	97
40) Carbon Tetrachloride	8.049	117	65763	30.58	ug/L	97
41) 1,1,1-Trichloroethane	8.122	97	72372	29.48	ug/L	97
42) 2-Butanone	8.201	43	88010	119.17	ug/L	97
43) 1,1-Dichloropropene	8.250	75	63436	28.68	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36320.d
Acq On : 27 Dec 2022 7:36 pm
Operator : joannel
Sample : FC1588-1MS 5X Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,5
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:58:07 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl formate	8.354	59	82991	128.27	ug/L		96
45) Propionitrile	8.531	54	69323	256.30	ug/L		98
46) Methacrylonitrile	8.555	41	263190	290.79	ug/L		99
47) Benzene	8.524	78	175960	27.71	ug/L		98
48) TAME	8.604	73	121627	26.93	ug/L		96
50) 1,2-Dichloroethane	8.732	62	65379	27.11	ug/L		98
51) tert Amyl alcohol	8.787	59	43173	259.76	ug/L		93
52) Trichloroethene	9.134	95	47833	28.15	ug/L		94
53) Methylcyclohexane	9.134	83	87237	32.58	ug/L		99
54) Dibromomethane	9.573	93	30472	27.26	ug/L		91
55) 1,2-Dichloropropane	9.671	63	45889	25.40	ug/L		99
56) Bromodichloromethane	9.719	83	61258	28.67	ug/L		99
57) Methyl methacrylate	9.835	41	36596	28.25	ug/L		92
58) 1,4-Dioxane	9.927	88	8076	528.67	ug/L		98
59) 2-Chloroethyl vinyl ether	10.359	63	154	0.16	ug/L	#	1
60) cis-1,3-Dichloropropene	10.353	75	63954	26.54	ug/L		93
63) Toluene	10.597	91	202492	27.14	ug/L		99
64) Isobutyl alcohol	8.677	43	33043	465.28	ug/L		99
65) 2-Nitropropane	10.829	41	66688	119.16	ug/L		99
66) 4-Methyl-2-pentanone	10.939	43	208021	107.33	ug/L		98
67) trans-1,3-Dichloropropene	10.993	75	60966	25.57	ug/L		89
68) Tetrachloroethene	11.000	166	47704	26.00	ug/L		96
69) Ethyl methacrylate	11.103	69	49754	21.33	ug/L		95
70) 1,1,2-Trichloroethane	11.164	83	35142	24.23	ug/L		93
71) Dibromochloromethane	11.359	129	45862	24.30	ug/L		96
72) 1,3-Dichloropropane	11.451	76	64948	22.46	ug/L		98
73) 1,2-Dibromoethane	11.621	107	43361	24.80	ug/L		99
74) 3,3-Dimethyl-1-butanol	11.707	57	228572	1210.44	ug/L		99
75) 2-hexanone	11.762	43	143088	107.34	ug/L		98
76) 1-Chlorohexane	12.054	91	66861	27.14	ug/L		90
77) Ethylbenzene	12.121	91	215097	25.19	ug/L		99
78) Chlorobenzene	12.127	112	121295	24.48	ug/L		95
79) 1,1,1,2-Tetrachloroethane	12.176	131	43000	25.23	ug/L		97
80) m,p-Xylene	12.262	91	325802	51.43	ug/L		98
81) o-Xylene	12.700	91	161292	26.68	ug/L		97
82) Styrene	12.755	104	115145	24.80	ug/L		99
83) Bromoform	12.816	173	27967	23.07	ug/L		96
84) Isopropylbenzene	13.005	105	200743	25.61	ug/L		98
87) cis-1,4-Dichloro-2-butene	13.676	53	12460	19.87	ug/L		96
88) n-Propylbenzene	13.426	91	251654	24.54	ug/L		97
89) Bromobenzene	13.456	156	44616	22.36	ug/L		95
90) 1,1,2,2-Tetrachloroethane	13.493	83	57990	23.14	ug/L		97
91) 1,3,5-Trimethylbenzene	13.609	105	160662	23.78	ug/L		100
92) 2-Chlorotoluene	13.621	91	150526	23.92	ug/L		99
93) trans-1,4-Dichloro-2-B...	13.676	53	12460	19.87	ug/L		96
94) 1,2,3-Trichloropropane	13.664	110	15493	21.10	ug/L		94
95) Cyclohexanone	13.737	55	6458	101.89	ug/L		91
96) 4-Chlorotoluene	13.786	91	132159	23.58	ug/L		99
98) tert-Butylbenzene	13.950	91	88558	24.25	ug/L		98
99) 1,2,4-Trimethylbenzene	14.017	105	166246	25.38	ug/L		98
100) Pentachloroethane	14.005	167	28702	24.34	ug/L		96
101) sec-Butylbenzene	14.133	105	214490	25.82	ug/L		98
102) 4-Isopropyltoluene	14.261	119	182327	25.04	ug/L		98
103) 1,3-Dichlorobenzene	14.401	146	90602	24.32	ug/L		96
104) 1,2,3-Trimethylbenzene	14.475	105	167551	25.34	ug/L		99
105) 1,4-Dichlorobenzene	14.487	146	96650	23.71	ug/L		97
106) n-Butylbenzene	14.682	92	89527	23.19	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36320.d
Acq On : 27 Dec 2022 7:36 pm
Operator : joannel
Sample : FC1588-1MS 5X Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,5
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:58:07 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

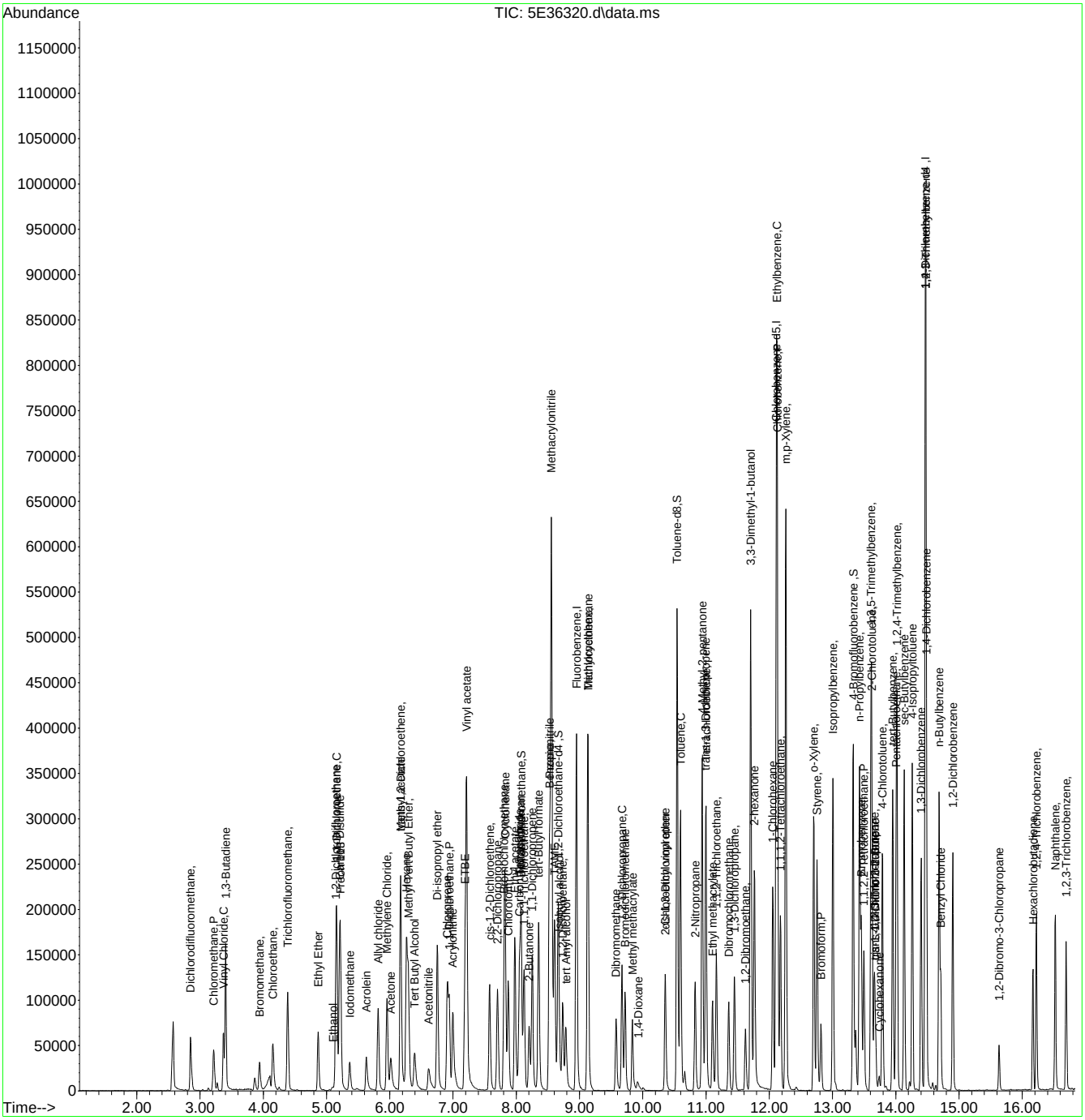
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) Benzyl Chloride	14.712	126	15462	19.70	ug/L	95
108) 1,2-Dichlorobenzene	14.901	146	84469	23.68	ug/L	97
109) 1,2-Dibromo-3-Chloropr...	15.633	75	8019	20.73	ug/L	94
110) Hexachlorobutadiene	16.169	225	16976	22.53	ug/L	95
111) 1,2,4-Trichlorobenzene	16.224	180	46942	23.62	ug/L	95
112) Naphthalene	16.523	128	129050	23.71	ug/L	100
113) 1,2,3-Trichlorobenzene	16.694	180	39223	23.42	ug/L	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36320.d
Acq On : 27 Dec 2022 7:36 pm
Operator : joannel
Sample : FC1588-1MS 5X Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,5
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:58:07 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36321.d
Acq On : 27 Dec 2022 7:59 pm
Operator : joannel
Sample : FC1588-1MSD 5X Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:58:12 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	317038	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	257943	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	132047	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.079	113	93186	53.05	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.10%			
49) 1,2-Dichloroethane-d4	8.665	65	102229	50.69	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.38%			
62) Toluene-d8	10.542	98	328613	46.68	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 93.36%			
86) 4-Bromofluorobenzene	13.322	95	107898	49.12	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.24%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.849	85	54028	27.91	ug/L	96
3) Chloromethane	3.215	50	52727	28.40	ug/L	99
4) Vinyl Chloride	3.367	62	60990	30.94	ug/L	97
5) 1,3-Butadiene	3.404	39	48689	38.63	ug/L	93
6) Bromomethane	3.940	94	24085	23.31	ug/L	90
7) Chloroethane	4.153	64	47068	29.13	ug/L	97
8) Trichlorofluoromethane	4.385	101	83496	35.02	ug/L	93
9) Ethyl Ether	4.867	59	37204	26.54	ug/L	97
10) Ethanol	5.086	45	13489	1203.64	ug/L	86
11) 1,2-Dichlorotrifluoroe...	5.147	67	53870	26.90	ug/L	98
12) 1,1-Dichloroethene	5.159	61	74902	30.04	ug/L	98
13) Freon 113	5.220	101	48081	28.61	ug/L	99
14) Carbon Disulfide	5.208	76	128445	27.39	ug/L	99
15) Iodomethane	5.367	142	37651	16.42	ug/L	99
16) Acrolein	5.629	56	39031	129.55	ug/L	96
17) Allyl chloride	5.818	41	48660	28.35	ug/L	98
18) Methylene Chloride	5.958	49	60210	25.23	ug/L	93
19) Acetone	6.013	43	57767	116.98	ug/L	96
20) Methyl acetate	6.171	43	136892	141.26	ug/L	98
21) trans-1,2-Dichloroethene	6.171	61	65494	28.29	ug/L	96
22) Hexane	6.263	56	42984	30.91	ug/L	92
23) Methyl Tert Butyl Ether	6.293	73	121427	26.29	ug/L	89
24) Acetonitrile	6.616	41	40828	257.82	ug/L	94
25) Di-isopropyl ether	6.750	45	119392	26.93	ug/L	99
26) Chloroprene	6.909	53	63328	30.49	ug/L	99
27) 1,1-Dichloroethane	6.939	63	87011	28.35	ug/L	94
28) Acrylonitrile	7.000	53	80354	138.53	ug/L	91
29) ETBE	7.195	59	134430	26.23	ug/L	97
30) Tert Butyl Alcohol	6.397	59	61014	251.99	ug/L	96
31) Vinyl acetate	7.214	43	456892	151.54	ug/L	99
32) cis-1,2-Dichloroethene	7.580	96	47713	28.18	ug/L	99
33) 2,2-Dichloropropane	7.701	77	58726	23.95	ug/L	97
34) Bromochloromethane	7.811	128	22376	27.17	ug/L	95
35) Cyclohexane	7.823	56	86728	31.92	ug/L	95
36) Chloroform	7.872	83	79083	26.48	ug/L	98
37) Ethyl acetate	7.976	43	206104	138.44	ug/L	99
38) Tetrahydrofuran	8.067	42	12083	26.10	ug/L	91
40) Carbon Tetrachloride	8.049	117	63147	28.99	ug/L	97
41) 1,1,1-Trichloroethane	8.122	97	71533	28.77	ug/L	95
42) 2-Butanone	8.201	43	88962	118.93	ug/L	98
43) 1,1-Dichloropropene	8.250	75	61419	27.42	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36321.d
Acq On : 27 Dec 2022 7:59 pm
Operator : joannel
Sample : FC1588-1MSD 5X Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:58:12 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl formate	8.354	59	78755	120.17	ug/L		94
45) Propionitrile	8.537	54	70363	256.84	ug/L		88
46) Methacrylonitrile	8.555	41	266200	290.37	ug/L		97
47) Benzene	8.524	78	168834	26.25	ug/L		98
48) TAME	8.604	73	121650	26.59	ug/L		98
50) 1,2-Dichloroethane	8.732	62	64245	26.30	ug/L		99
51) tert Amyl alcohol	8.787	59	44031	261.60	ug/L		98
52) Trichloroethene	9.134	95	47618	27.67	ug/L		96
53) Methylcyclohexane	9.134	83	86160	31.77	ug/L		99
54) Dibromomethane	9.579	93	29488	26.04	ug/L		97
55) 1,2-Dichloropropane	9.671	63	45614	24.93	ug/L		96
56) Bromodichloromethane	9.719	83	59647	27.56	ug/L		95
57) Methyl methacrylate	9.835	41	36457	27.79	ug/L		92
58) 1,4-Dioxane	9.921	88	8521	549.89	ug/L		94
59) 2-Chloroethyl vinyl ether	10.347	63	247	0.25	ug/L	#	1
60) cis-1,3-Dichloropropene	10.353	75	62672	25.68	ug/L		98
63) Toluene	10.597	91	194735	25.54	ug/L		96
64) Isobutyl alcohol	8.677	43	33603	463.09	ug/L		96
65) 2-Nitropropane	10.829	41	66191	115.72	ug/L		95
66) 4-Methyl-2-pentanone	10.939	43	212286	107.19	ug/L		99
67) trans-1,3-Dichloropropene	10.993	75	59674	24.49	ug/L		93
68) Tetrachloroethene	11.000	166	45174	24.09	ug/L		97
69) Ethyl methacrylate	11.103	69	50739	21.29	ug/L		96
70) 1,1,2-Trichloroethane	11.164	83	34648	23.38	ug/L		95
71) Dibromochloromethane	11.359	129	45467	23.57	ug/L		97
72) 1,3-Dichloropropane	11.451	76	63116	21.36	ug/L		98
73) 1,2-Dibromoethane	11.621	107	43533	24.37	ug/L		98
74) 3,3-Dimethyl-1-butanol	11.707	57	236332	1225.03	ug/L		96
75) 2-hexanone	11.762	43	146800	107.78	ug/L		98
76) 1-Chlorohexane	12.054	91	63897	25.38	ug/L		91
77) Ethylbenzene	12.121	91	206496	23.66	ug/L		97
78) Chlorobenzene	12.127	112	119511	23.60	ug/L		97
79) 1,1,1,2-Tetrachloroethane	12.176	131	41807	24.01	ug/L		95
80) m,p-Xylene	12.262	91	318733	49.24	ug/L		98
81) o-Xylene	12.700	91	156518	25.34	ug/L		100
82) Styrene	12.755	104	111141	23.43	ug/L		99
83) Bromoform	12.816	173	26955	21.78	ug/L		93
84) Isopropylbenzene	13.005	105	197855	24.71	ug/L		98
87) cis-1,4-Dichloro-2-butene	13.676	53	12004	18.62	ug/L		94
88) n-Propylbenzene	13.426	91	241596	22.94	ug/L		95
89) Bromobenzene	13.456	156	44429	21.68	ug/L		96
90) 1,1,2,2-Tetrachloroethane	13.493	83	58303	22.65	ug/L		99
91) 1,3,5-Trimethylbenzene	13.609	105	158357	22.82	ug/L		98
92) 2-Chlorotoluene	13.621	91	145249	22.47	ug/L		99
93) trans-1,4-Dichloro-2-B...	13.676	53	12004	18.62	ug/L		94
94) 1,2,3-Trichloropropane	13.658	110	14995	19.85	ug/L		97
95) Cyclohexanone	13.737	55	7056	108.24	ug/L		93
96) 4-Chlorotoluene	13.786	91	129037	22.42	ug/L		97
98) tert-Butylbenzene	13.950	91	86132	22.96	ug/L		99
99) 1,2,4-Trimethylbenzene	14.017	105	162727	24.19	ug/L		96
100) Pentachloroethane	14.005	167	28758	23.74	ug/L		94
101) sec-Butylbenzene	14.133	105	212942	24.96	ug/L		98
102) 4-Isopropyltoluene	14.261	119	177895	23.78	ug/L		98
103) 1,3-Dichlorobenzene	14.401	146	88552	23.14	ug/L		99
104) 1,2,3-Trimethylbenzene	14.475	105	165858	24.43	ug/L		99
105) 1,4-Dichlorobenzene	14.481	146	95177	22.73	ug/L		95
106) n-Butylbenzene	14.682	92	89558	22.58	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36321.d
Acq On : 27 Dec 2022 7:59 pm
Operator : joannel
Sample : FC1588-1MSD 5X Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:58:12 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

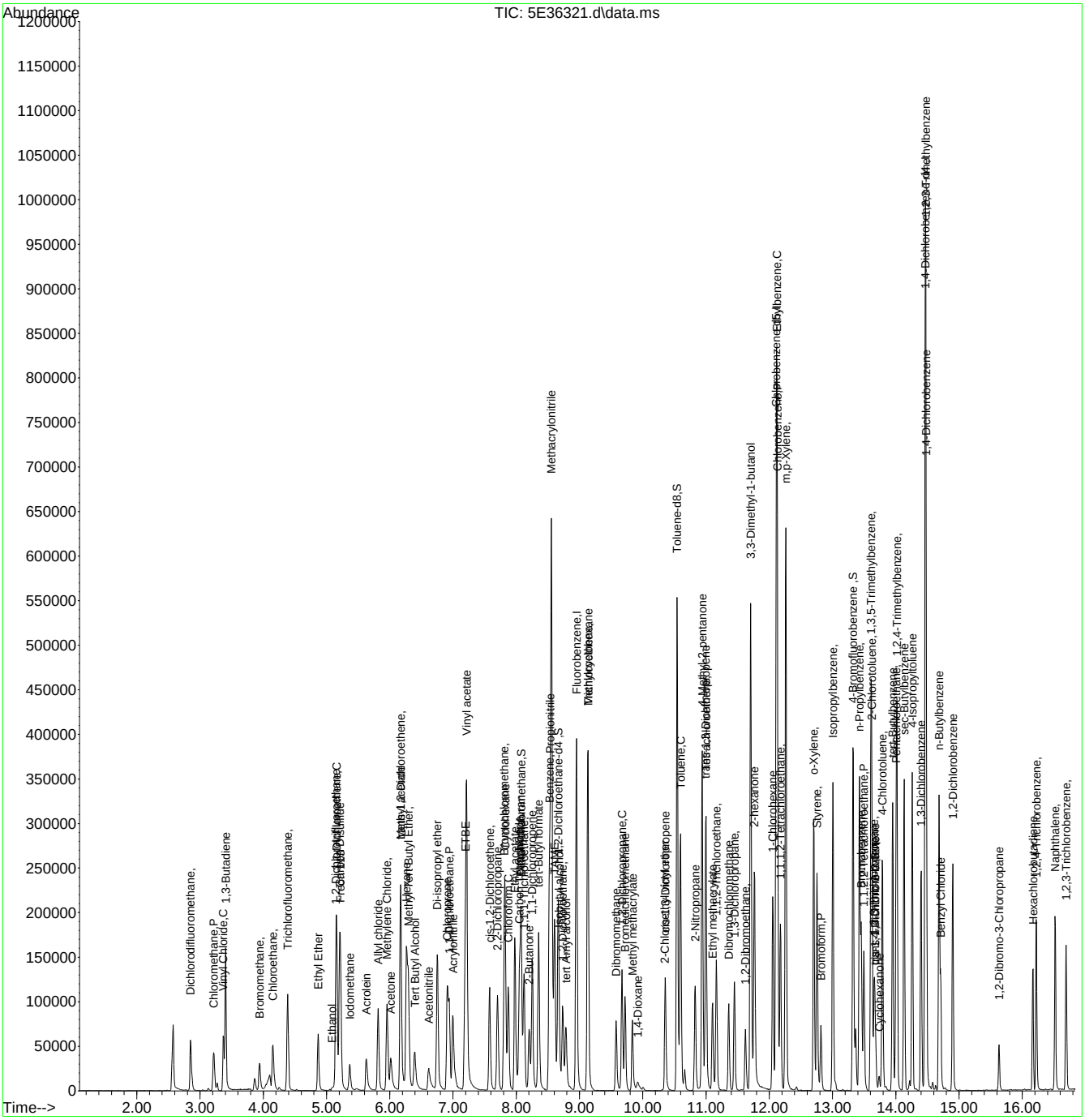
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) Benzyl Chloride	14.712	126	15300	19.05	ug/L	95
108) 1,2-Dichlorobenzene	14.901	146	85597	23.36	ug/L	98
109) 1,2-Dibromo-3-Chloropr...	15.633	75	8196	20.63	ug/L	97
110) Hexachlorobutadiene	16.169	225	16830	21.74	ug/L	98
111) 1,2,4-Trichlorobenzene	16.224	180	46481	22.77	ug/L	96
112) Naphthalene	16.517	128	129727	23.20	ug/L	100
113) 1,2,3-Trichlorobenzene	16.694	180	40267	23.41	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36321.d
Acq On : 27 Dec 2022 7:59 pm
Operator : joannel
Sample : FC1588-1MSD 5X Inst : MSVOA20
Misc : MS53099,V5E1633,,,,,5
ALS Vial : 26 Sample Multiplier: 1

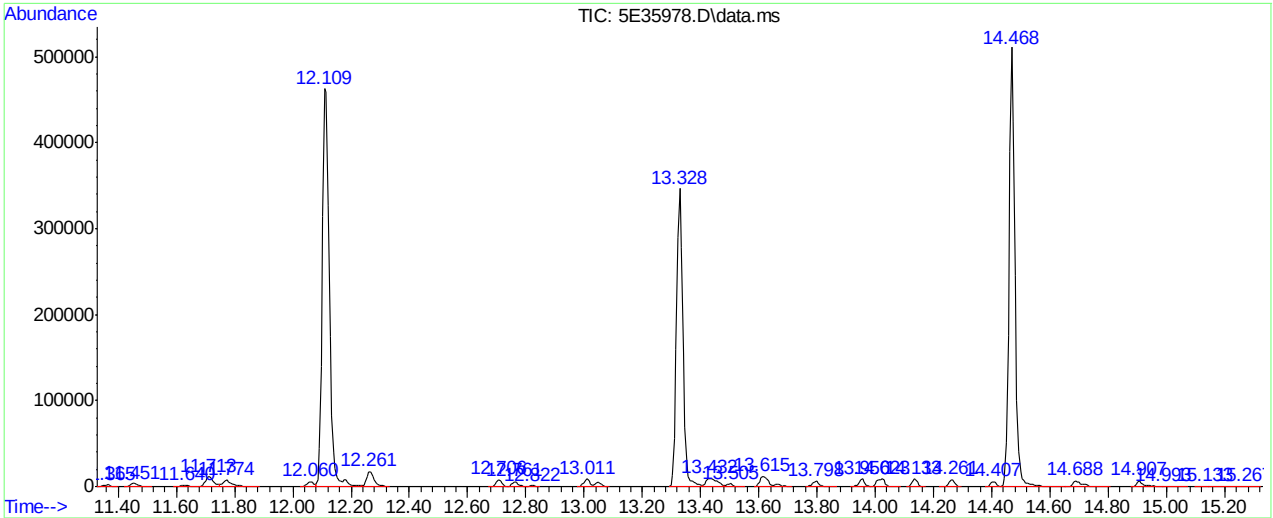
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:58:12 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration



Methods: SW-846 8260B

Data File : C:\msdchem\1\data\12-08-2022\5E35978.D Vial: 2
Acq On : 8 Dec 2022 10:48 am Operator: courtnef
Sample : BFB Inst : MSVOA20
Misc : MS52751,V5E1617,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...pIX12-08-2022_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624



AutoFind: Scans 2007, 2008, 2009; Background Corrected with Scan 2000

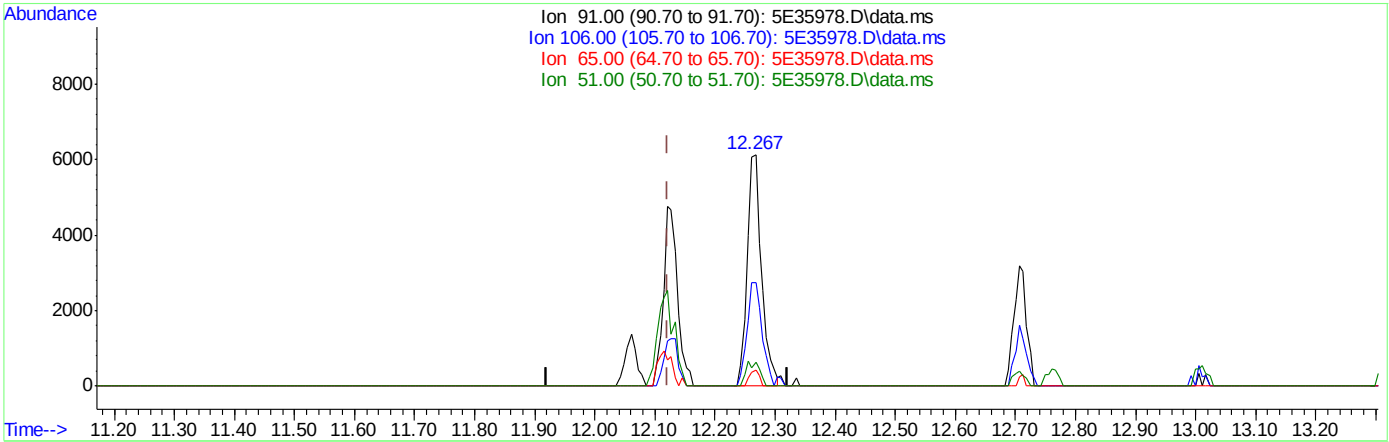
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.3	13727	PASS
75	95	30	60	54.8	29731	PASS
95	95	100	100	100.0	54288	PASS
96	95	5	9	6.7	3641	PASS
173	174	0.00	2	1.3	617	PASS
174	95	50	100	89.1	48392	PASS
175	174	5	9	7.0	3371	PASS
176	174	95	101	96.5	46675	PASS
177	176	5	9	6.8	3157	PASS

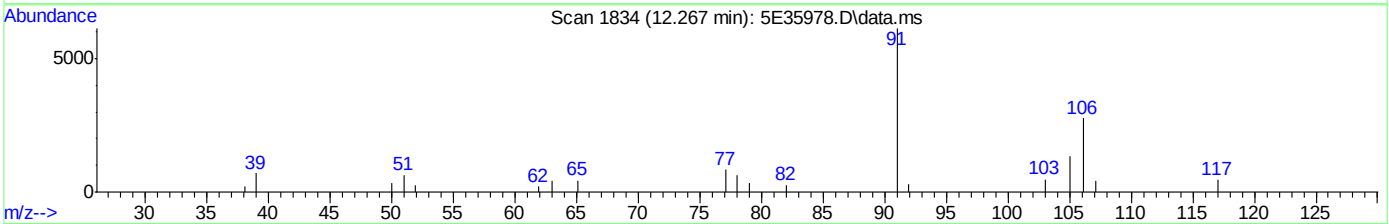
5E35978.D appIX12-08-2022_.M Thu Dec 08 12:25:54 2022

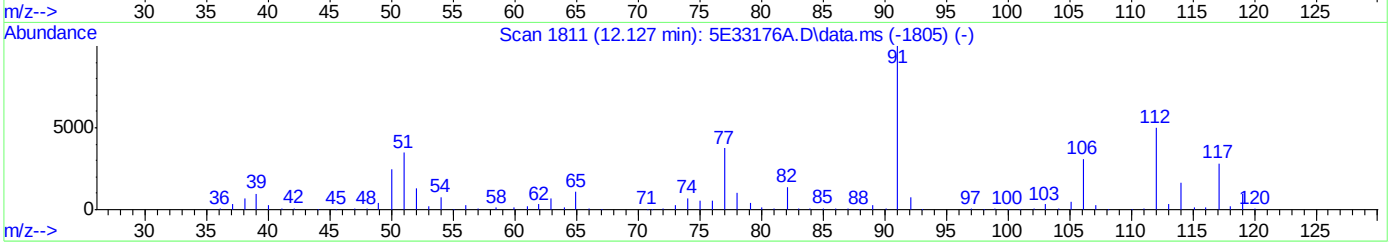
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35978.D
Acq On : 8 Dec 2022 10:48 am
Operator : courtnef
Sample : IC1617-1
Misc : MS52751,V5E1617,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 08 11:05:24 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration







TIC: 5E35978.D\data.ms

(77) Ethylbenzene (C)

12.267min (+0.146) 1.29ug/L

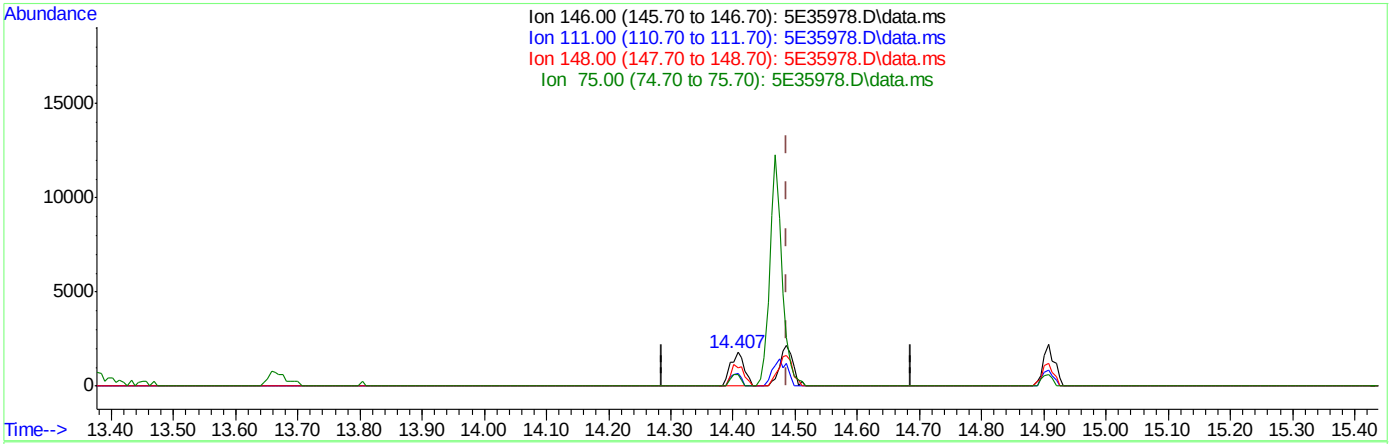
response 10050

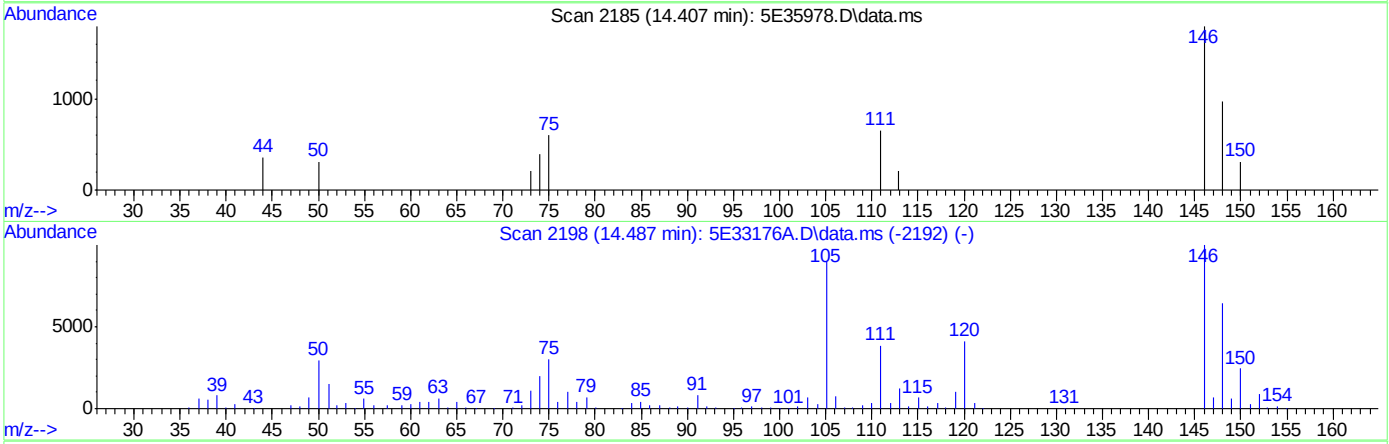
Ion	Exp%	Act%
91.00	100	100
106.00	31.60	44.90
65.00	8.20	6.96
51.00	19.20	10.48

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35978.D
Acq On : 8 Dec 2022 10:48 am
Operator : courtnef
Sample : IC1617-1
Misc : MS52751,V5E1617,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 08 11:05:24 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration





TIC: 5E35978.D\data.ms

(105) 1,4-Dichlorobenzene

14.407min (-0.080) 0.74ug/L

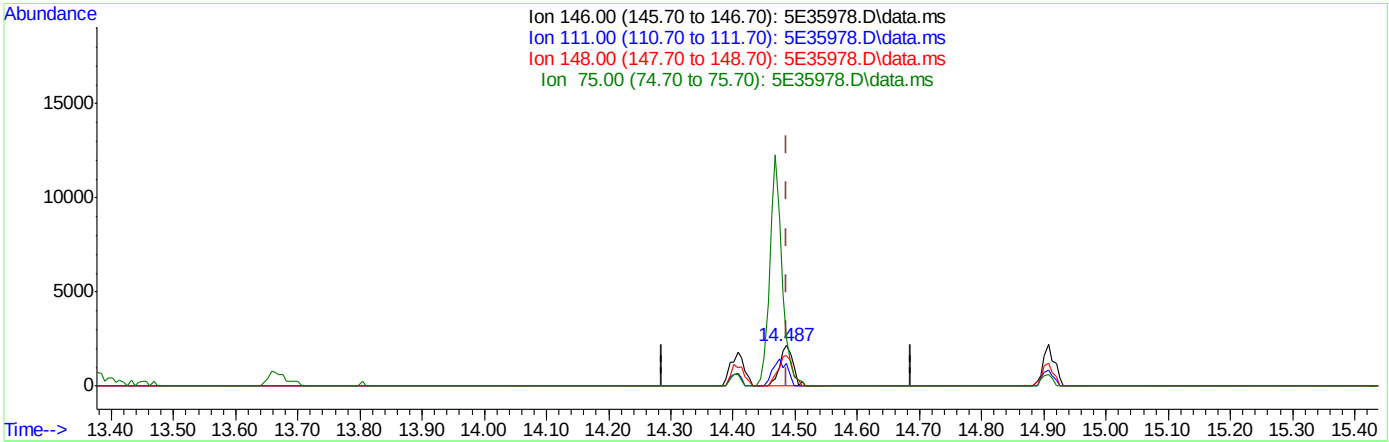
response 2749

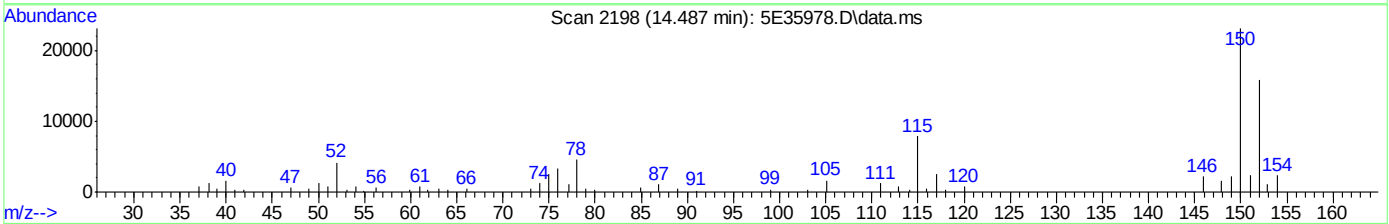
Ion	Exp%	Act%
146.00	100	100
111.00	32.80	36.53
148.00	63.20	53.90
75.00	24.70	33.57

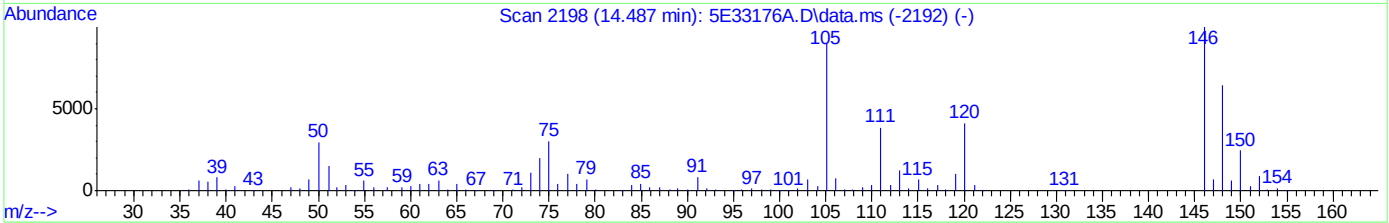
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35978.D
Acq On : 8 Dec 2022 10:48 am
Operator : courtnef
Sample : IC1617-1
Misc : MS52751,V5E1617,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 08 11:05:24 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration







TIC: 5E35978.D\data.ms

(105) 1,4-Dichlorobenzene

14.487min (-0.000) 0.85ug/L m

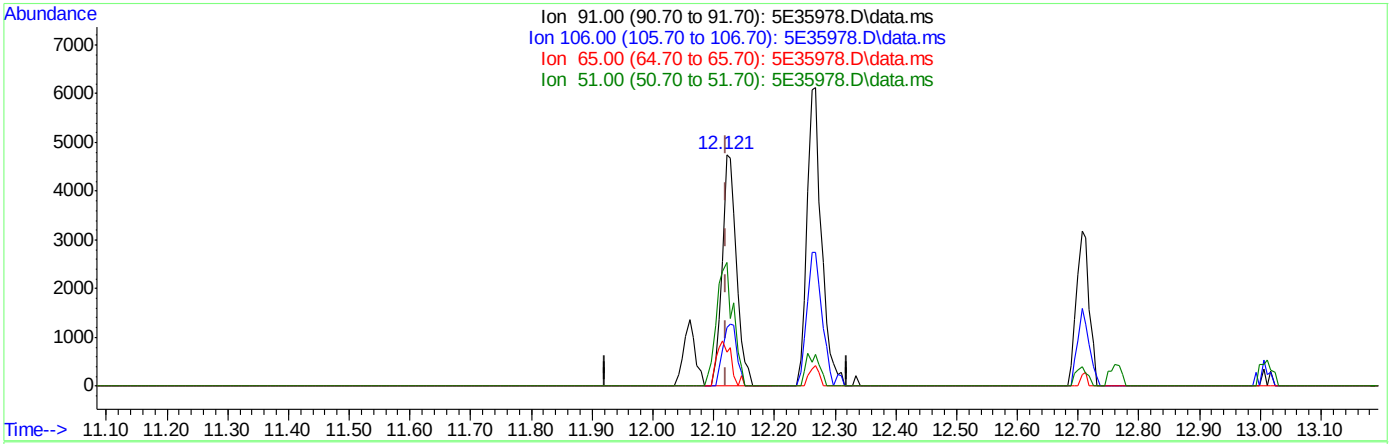
response 3153

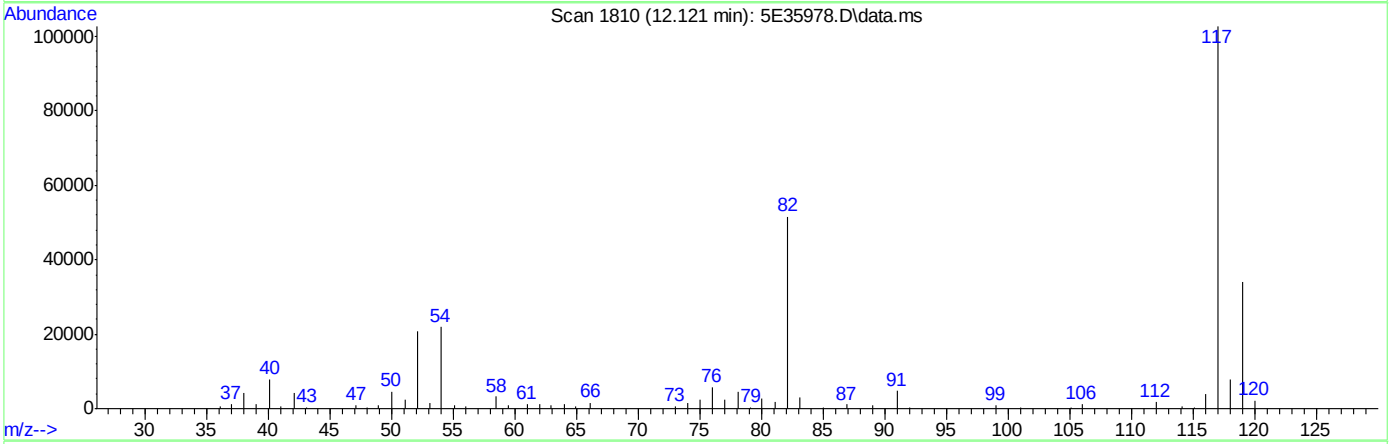
Ion	Exp%	Act%
146.00	100	100
111.00	32.80	56.27
148.00	63.20	76.39
75.00	24.70	120.21#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35978.D
Acq On : 8 Dec 2022 10:48 am
Operator : courtnef
Sample : IC1617-1
Misc : MS52751,V5E1617,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 08 11:07:37 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration





TIC: 5E35978.D\data.ms

(77) Ethylbenzene (C)

12.121min (+0.000) 0.99ug/L m

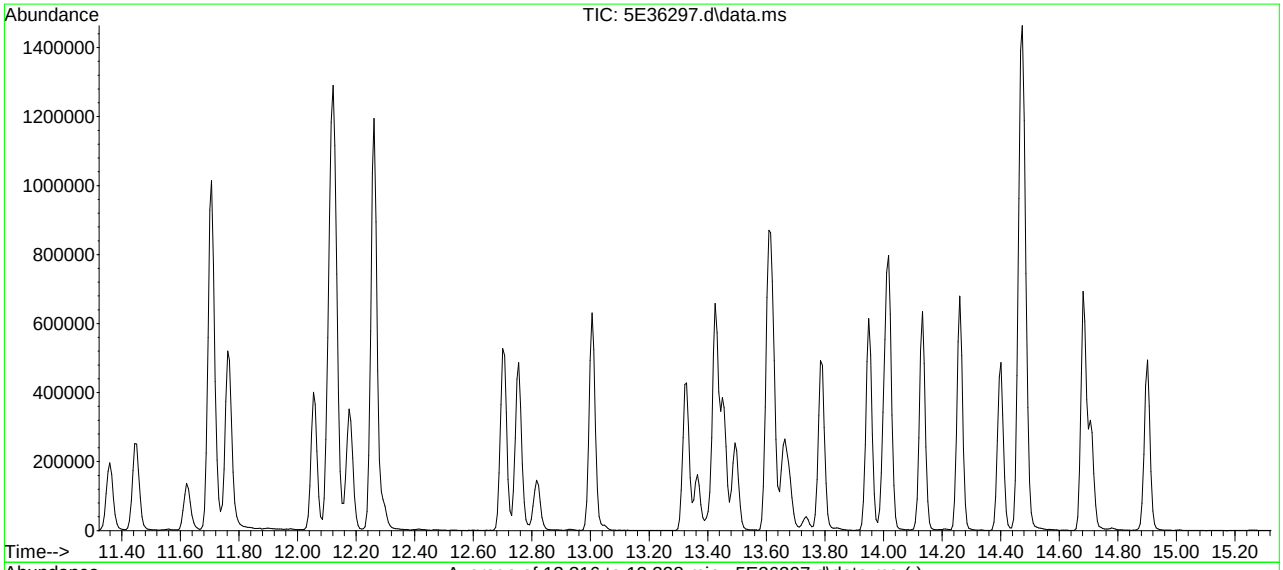
response 7721

Ion	Exp%	Act%
91.00	100	100
106.00	31.60	25.44
65.00	8.20	14.79
51.00	19.20	53.21#

Methods: SW-846 8260B

```
Data File : C:\msdchem\1\data\jo...5e1632-1633\5E36297.d Vial: 2
Acq On    : 27 Dec 2022  10:45 am                    Operator: joannel
Sample    : BFB                                      Inst    : MSVOA20
Misc      : MS52751,V5E1632,,,,,                     Multiplr: 1.00
MS Integration Params: ult...ll.p

Method    : C:\msdchem\1\met...pIX12-08-2022_.M (RTE Integrator)
Title     : SW-846 Method 5030B/8260B & EPA 624
```



AutoFind: Scans 2006, 2007, 2008; Background Corrected with Scan 2000

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.6	17232	PASS
75	95	30	60	54.6	36784	PASS
95	95	100	100	100.0	67320	PASS
96	95	5	9	6.5	4409	PASS
173	174	0.00	2	0.8	449	PASS
174	95	50	100	82.7	55661	PASS
175	174	5	9	8.1	4503	PASS
176	174	95	101	98.2	54661	PASS
177	176	5	9	6.4	3486	PASS

5E36297.d appIX12-08-2022_.M Wed Dec 28 02:59:41 2022

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
12/09/22 10:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35978.D
Acq On : 8 Dec 2022 10:48 am
Operator : courtnef
Sample : IC1617-1
Misc : MS52751,V5E1617,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 08 11:07:37 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.951	96	334730	50.00	ug/L		0.00
61) Chlorobenzene-d5	12.115	117	235123	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	109352	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	8.079	113	92786	47.84	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.68%				
49) 1,2-Dichloroethane-d4	8.665	65	104516	53.29	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.58%				
62) Toluene-d8	10.542	98	326882	55.27	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 110.54%				
86) 4-Bromofluorobenzene	13.328	95	95349	55.07	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 110.14%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.855	85	2217	1.25	ug/L		84
3) Chloromethane	3.220	50	1854	1.05	ug/L		72
4) Vinyl Chloride	3.373	62	1927	1.03	ug/L		86
5) 1,3-Butadiene	3.409	39	1404	0.89	ug/L		95
6) Bromomethane	3.946	94	938	1.08	ug/L		90
7) Chloroethane	4.153	64	1276	0.92	ug/L		73
8) Trichlorofluoromethane	4.385	101	2439	0.90	ug/L		92
9) Ethyl Ether	4.873	59	1268	0.90	ug/L	#	76
11) 1,2-Dichlorotrifluoroe...	5.147	67	1781	0.92	ug/L	#	73
12) 1,1-Dichloroethene	5.165	61	2320	1.03	ug/L		91
13) Freon 113	5.220	101	1639	0.87	ug/L	#	87
14) Carbon Disulfide	5.208	76	5030	0.93	ug/L		89
15) Iodomethane	5.372	142	1295	0.71	ug/L		78
16) Acrolein	5.635	56	1209	3.38	ug/L		87
17) Allyl chloride	5.830	41	1828	0.87	ug/L		88
18) Methylene Chloride	5.958	49	3768	1.59	ug/L		95
19) Acetone	6.031	43	3736	6.80	ug/L		90
20) Methyl acetate	6.177	43	4221	3.59	ug/L		83
21) trans-1,2-Dichloroethene	6.171	61	2164	1.00	ug/L		89
22) Hexane	6.263	56	1228	1.01	ug/L	#	67
23) Methyl Tert Butyl Ether	6.287	73	4112	0.80	ug/L		74
24) Acetonitrile	6.634	41	1813	9.84	ug/L	#	69
25) Di-isopropyl ether	6.756	45	4220	0.88	ug/L		93
26) Chloroprene	6.915	53	2151	0.94	ug/L		96
27) 1,1-Dichloroethane	6.945	63	3130	1.07	ug/L		82
28) Acrylonitrile	7.019	53	2161	3.46	ug/L		87
29) ETBE	7.189	59	4613	0.88	ug/L		84
30) Tert Butyl Alcohol	6.391	59	1631	6.14	ug/L	#	41
31) Vinyl acetate	7.220	43	12287	3.34	ug/L		97
32) cis-1,2-Dichloroethene	7.579	96	1542	0.80	ug/L		96
33) 2,2-Dichloropropane	7.707	77	2279	0.87	ug/L		73
34) Bromochloromethane	7.805	128	622	0.63	ug/L		89
35) Cyclohexane	7.823	56	2503	1.01	ug/L		83
36) Chloroform	7.878	83	2879	0.92	ug/L		79

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35978.D
Acq On : 8 Dec 2022 10:48 am
Operator : courtnef
Sample : IC1617-1
Misc : MS52751,V5E1617,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 08 11:07:37 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Ethyl acetate	7.988	43	6784	3.88	ug/L		89
40) Carbon Tetrachloride	8.049	117	1907	0.79	ug/L		95
41) 1,1,1-Trichloroethane	8.122	97	2249	0.81	ug/L		78
42) 2-Butanone	8.213	43	4528	5.69	ug/L		88
43) 1,1-Dichloropropene	8.256	75	2114	0.93	ug/L		86
44) tert-Butyl formate	8.354	59	6526	12.55	ug/L		90
45) Propionitrile	8.543	54	1895	6.98	ug/L	#	39
46) Methacrylonitrile	8.561	41	9567	8.14	ug/L		85
47) Benzene	8.524	78	6444	0.96	ug/L		94
48) TAME	8.604	73	3901	0.77	ug/L	#	63
50) 1,2-Dichloroethane	8.738	62	2480	1.04	ug/L		90
51) tert Amyl alcohol	8.786	59	850	5.31	ug/L	#	51
52) Trichloroethene	9.134	95	1609	0.84	ug/L		91
53) Methylcyclohexane	9.134	83	2492	0.85	ug/L		89
54) Dibromomethane	9.579	93	947	0.72	ug/L	#	71
55) 1,2-Dichloropropane	9.677	63	1207	0.73	ug/L		98
56) Bromodichloromethane	9.725	83	1880	0.75	ug/L	#	85
57) Methyl methacrylate	9.835	41	759	0.52	ug/L	#	44
59) 2-Chloroethyl vinyl ether	10.268	63	4279	21.81	ug/L		86
60) cis-1,3-Dichloropropene	10.359	75	1922	0.71	ug/L		71
63) Toluene	10.597	91	6397	0.94	ug/L		91
64) Isobutyl alcohol	8.677	43	1180	17.44	ug/L	#	11
65) 2-Nitropropane	10.829	41	1701	3.27	ug/L	#	70
66) 4-Methyl-2-pentanone	10.945	43	9971	6.05	ug/L		90
67) trans-1,3-Dichloropropene	11.006	75	1586	0.73	ug/L		95
68) Tetrachloroethene	11.006	166	1355	0.73	ug/L		94
69) Ethyl methacrylate	11.109	69	1314	0.60	ug/L	#	78
70) 1,1,2-Trichloroethane	11.170	83	1147	0.87	ug/L		98
71) Dibromochloromethane	11.365	129	1282	0.64	ug/L	#	58
72) 1,3-Dichloropropane	11.451	76	2327	0.91	ug/L		90
73) 1,2-Dibromoethane	11.640	107	1242	0.71	ug/L		70
74) 3,3-Dimethyl-1-butanol	11.707	57	6111	43.65	ug/L		90
75) 2-hexanone	11.774	43	6497	5.59	ug/L		79
76) 1-Chlorohexane	12.060	91	1802	0.81	ug/L		88
77) Ethylbenzene	12.121	91	7721m	0.99	ug/L		
78) Chlorobenzene	12.127	112	4271	0.94	ug/L		88
79) 1,1,1,2-Tetrachloroethane	12.176	131	1314	0.76	ug/L		91
80) m,p-Xylene	12.267	91	10152	1.72	ug/L		93
81) o-Xylene	12.706	91	4670	0.81	ug/L		93
82) Styrene	12.761	104	3152	0.70	ug/L		95
83) Bromoform	12.816	173	649	0.49	ug/L		85
84) Isopropylbenzene	13.011	105	6124	0.82	ug/L		99
87) cis-1,4-Dichloro-2-butene	13.688	53	76	0.21	ug/L	#	1
88) n-Propylbenzene	13.432	91	7689	0.96	ug/L		98
89) Bromobenzene	13.456	156	1427	0.80	ug/L		85
90) 1,1,2,2-Tetrachloroethane	13.499	83	2007	0.99	ug/L		81
91) 1,3,5-Trimethylbenzene	13.615	105	4839	0.86	ug/L		98
92) 2-Chlorotoluene	13.627	91	5103	1.02	ug/L		98
93) trans-1,4-Dichloro-2-B...	13.688	53	76	0.21	ug/L	#	1
94) 1,2,3-Trichloropropane	13.670	110	327	0.55	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35978.D
Acq On : 8 Dec 2022 10:48 am
Operator : courtnef
Sample : IC1617-1
Misc : MS52751,V5E1617,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 08 11:07:37 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

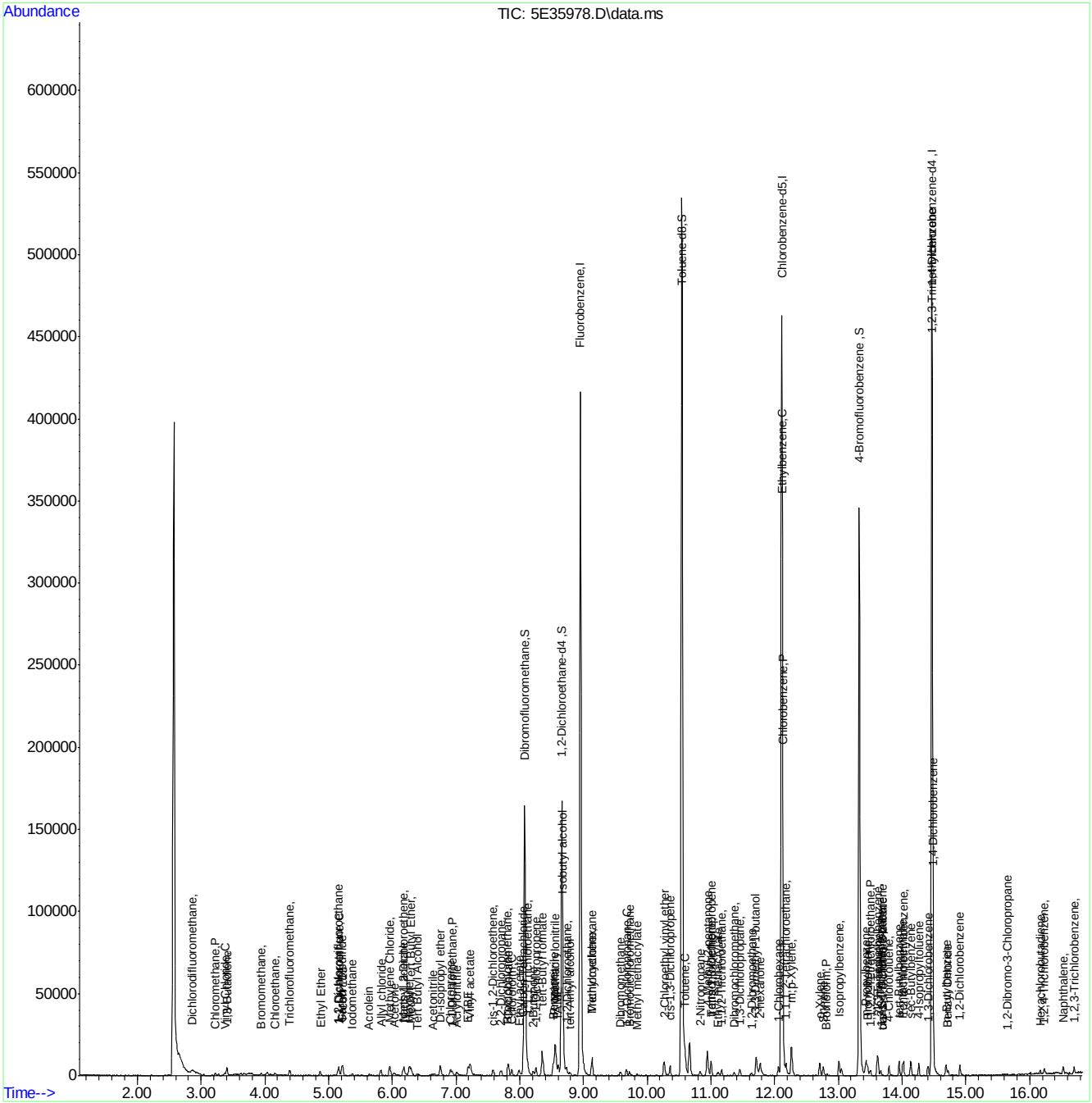
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
96) 4-Chlorotoluene	13.798	91	4417	0.98	ug/L		96
98) tert-Butylbenzene	13.950	91	2804	0.93	ug/L		95
99) 1,2,4-Trimethylbenzene	14.023	105	4604	0.83	ug/L		97
100) Pentachloroethane	14.011	167	983	0.90	ug/L		78
101) sec-Butylbenzene	14.139	105	6182	0.91	ug/L		95
102) 4-Isopropyltoluene	14.261	119	5204	0.87	ug/L		98
103) 1,3-Dichlorobenzene	14.407	146	2749	0.83	ug/L		90
104) 1,2,3-Trimethylbenzene	14.474	105	4615	0.80	ug/L	#	46
105) 1,4-Dichlorobenzene	14.487	146	3153m	0.85	ug/L		
106) n-Butylbenzene	14.694	92	2528	0.80	ug/L	#	68
107) Benzyl Chloride	14.718	126	342	0.50	ug/L	#	41
108) 1,2-Dichlorobenzene	14.907	146	2796	0.87	ug/L		94
109) 1,2-Dibromo-3-Chloropr...	15.645	75	86	0.26	ug/L	#	24
110) Hexachlorobutadiene	16.169	225	530	0.82	ug/L	#	79
111) 1,2,4-Trichlorobenzene	16.230	180	1402	0.77	ug/L		86
112) Naphthalene	16.529	128	3352	0.64	ug/L		86
113) 1,2,3-Trichlorobenzene	16.700	180	1191	0.79	ug/L		82

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35978.D
Acq On : 8 Dec 2022 10:48 am
Operator : courtnef
Sample : IC1617-1
Misc : MS52751,V5E1617,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 08 11:07:37 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V5E1617-IC1617
Lab FileID: 5E35978.D
Injection Time: 12/08/22 10:48

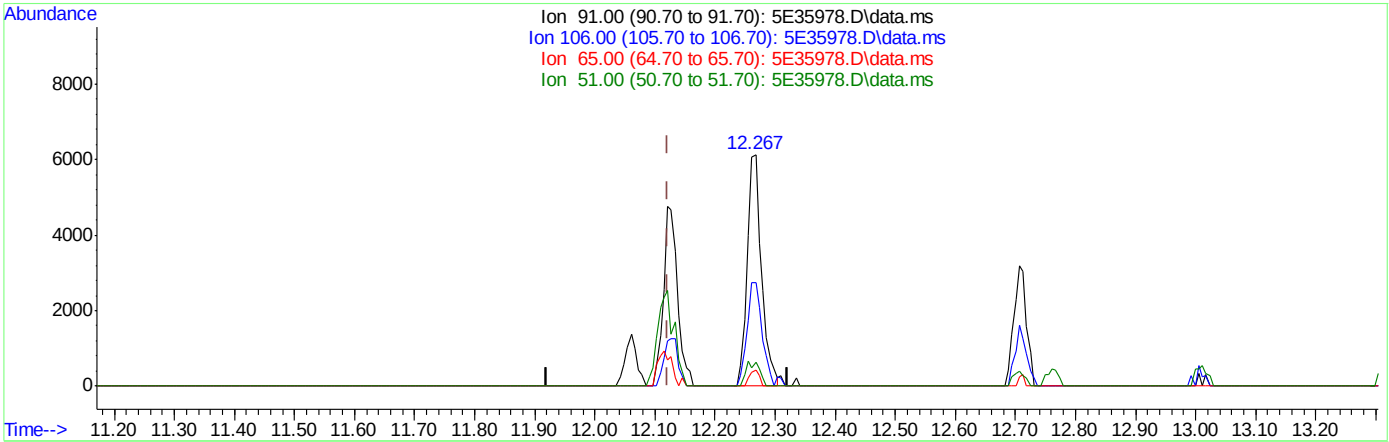
Method: SW846 8260D
Analyst approved: 12/08/22 16:36 Courtney Failla
Supervisor approved: 12/09/22 10:44 Karen Watson

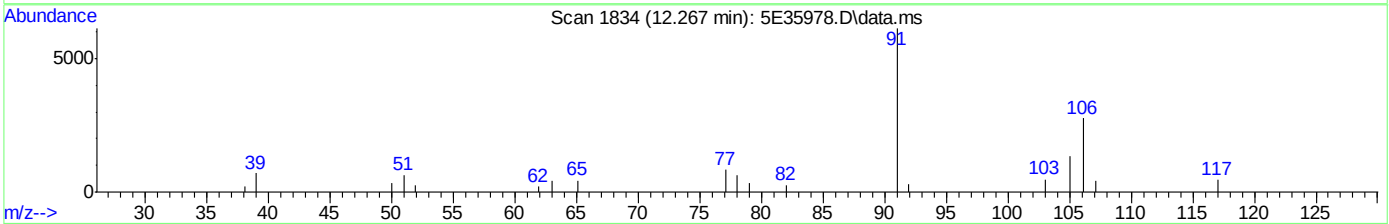
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethylbenzene	100-41-4		12.12	Missed peak
1,4-Dichlorobenzene	106-46-7		14.49	Missed peak

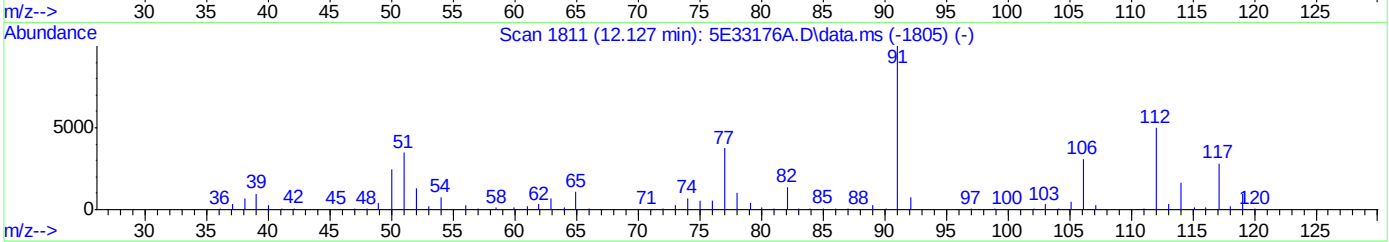
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35978.D
Acq On : 8 Dec 2022 10:48 am
Operator : courtnef
Sample : IC1617-1
Misc : MS52751,V5E1617,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 08 11:05:24 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration







TIC: 5E35978.D\data.ms

(77) Ethylbenzene (C)

12.267min (+0.146) 1.29ug/L

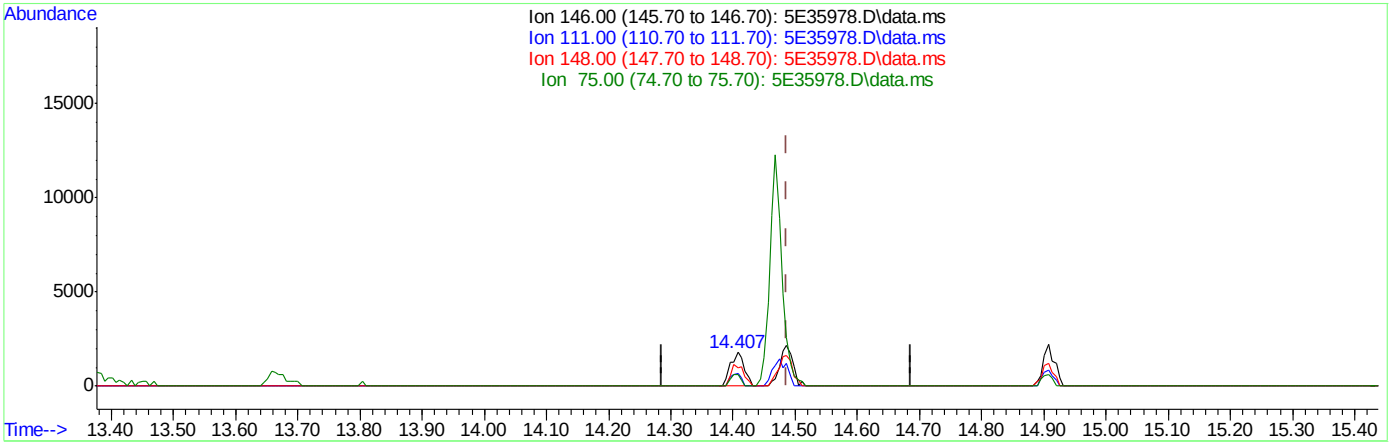
response 10050

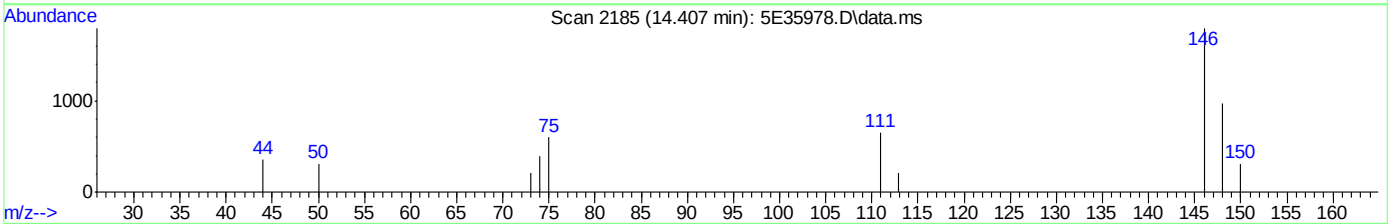
Ion	Exp%	Act%
91.00	100	100
106.00	31.60	44.90
65.00	8.20	6.96
51.00	19.20	10.48

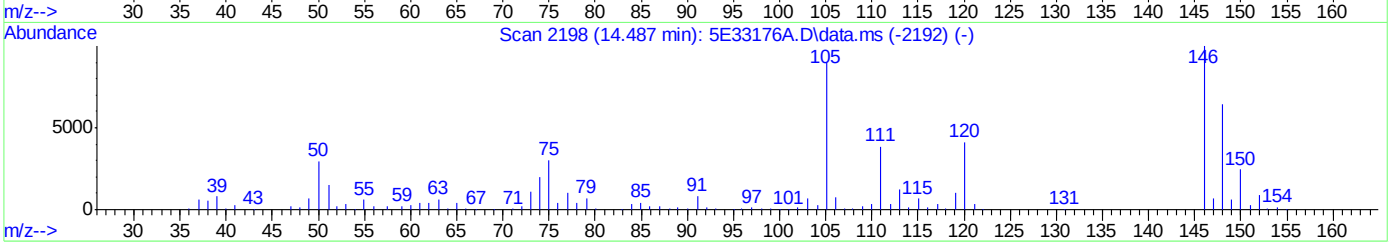
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35978.D
Acq On : 8 Dec 2022 10:48 am
Operator : courtnef
Sample : IC1617-1
Misc : MS52751,V5E1617,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 08 11:05:24 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration







TIC: 5E35978.D\data.ms

(105) 1,4-Dichlorobenzene

14.407min (-0.080) 0.74ug/L

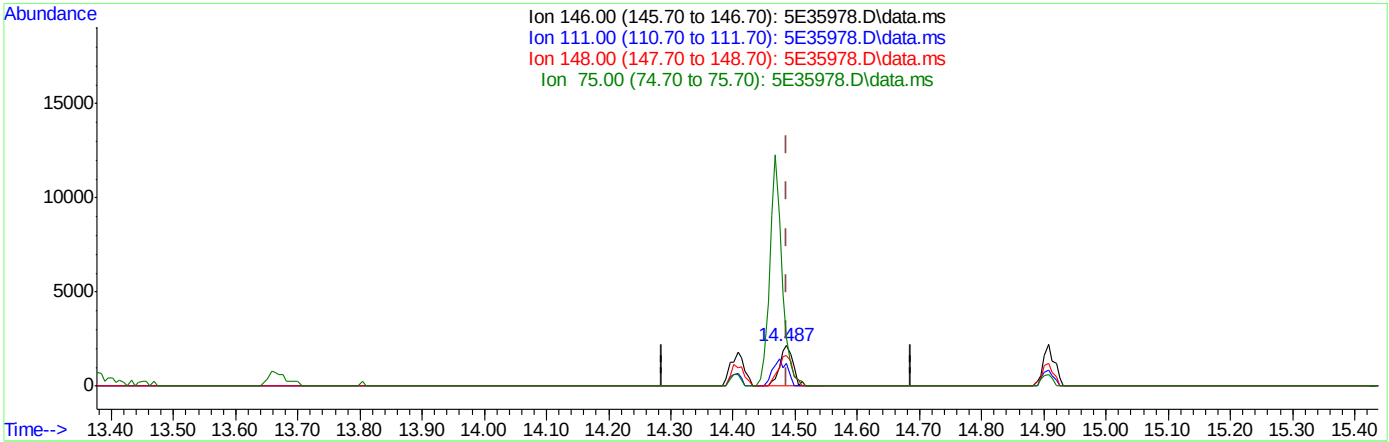
response 2749

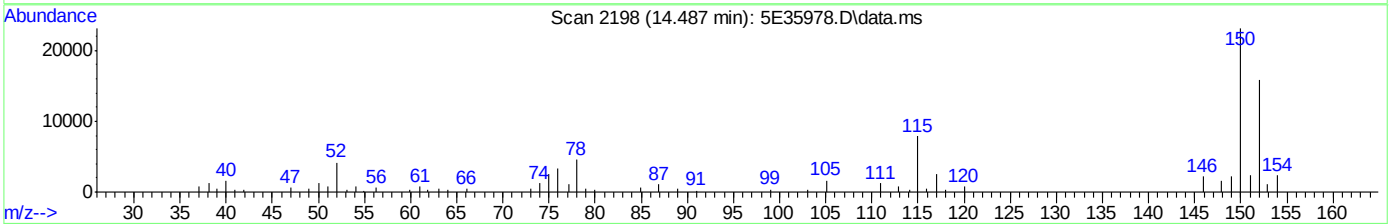
Ion	Exp%	Act%
146.00	100	100
111.00	32.80	36.53
148.00	63.20	53.90
75.00	24.70	33.57

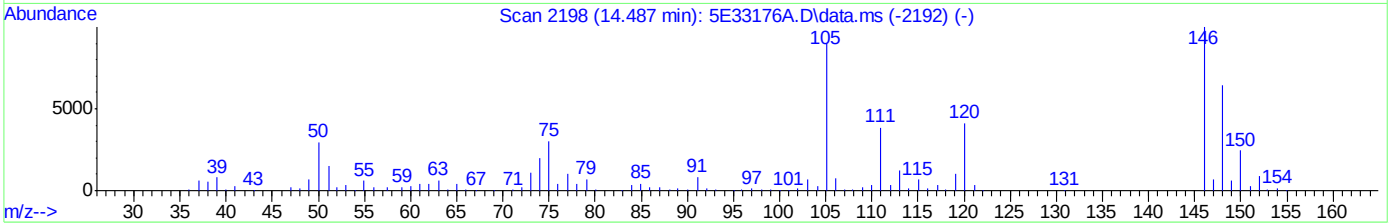
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35978.D
Acq On : 8 Dec 2022 10:48 am
Operator : courtnef
Sample : IC1617-1
Misc : MS52751,V5E1617,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 08 11:05:24 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration







TIC: 5E35978.D\data.ms

(105) 1,4-Dichlorobenzene

14.487min (-0.000) 0.85ug/L m

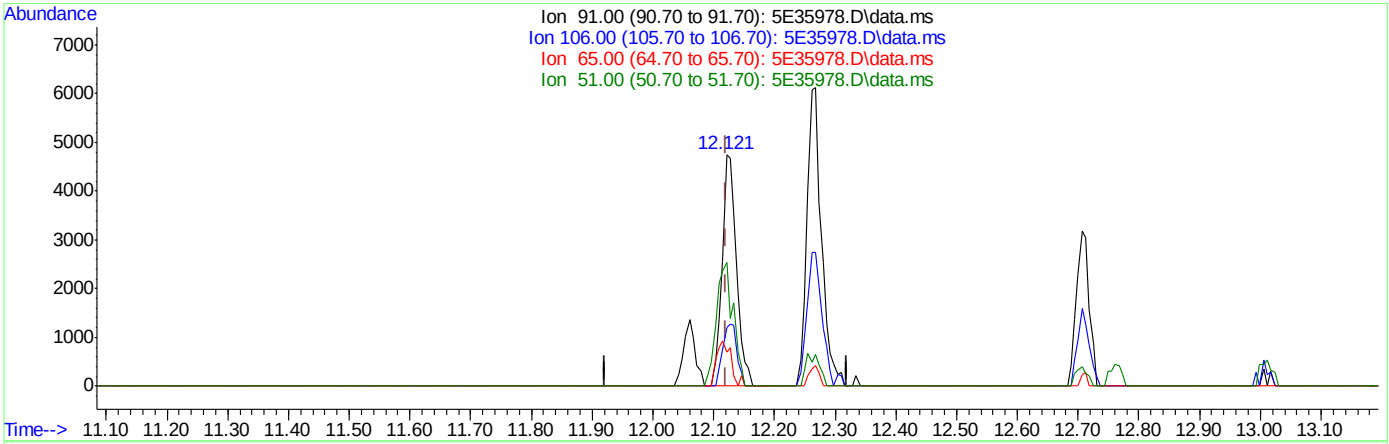
response 3153

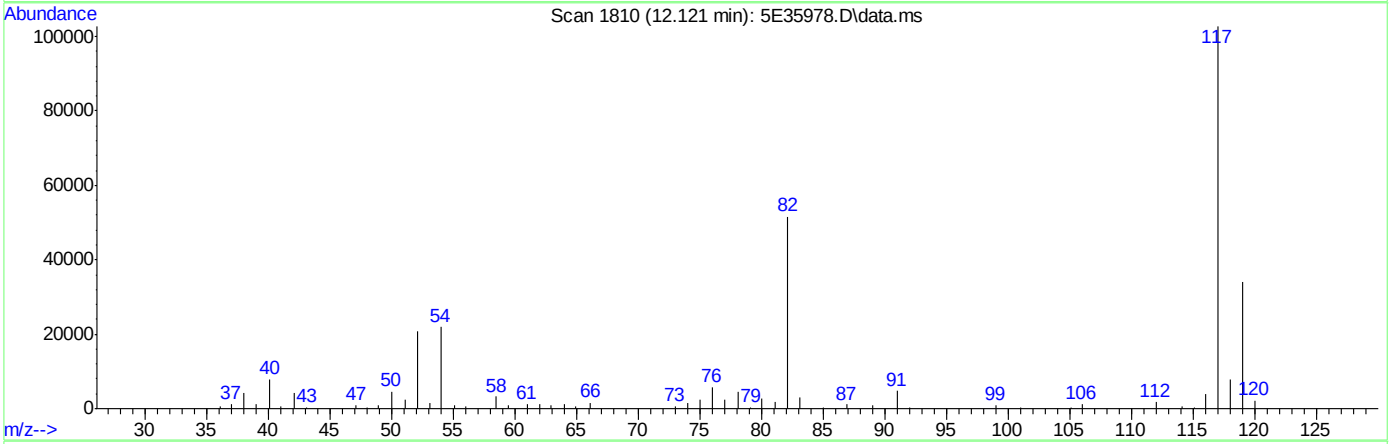
Ion	Exp%	Act%
146.00	100	100
111.00	32.80	56.27
148.00	63.20	76.39
75.00	24.70	120.21#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35978.D
Acq On : 8 Dec 2022 10:48 am
Operator : courtnef
Sample : IC1617-1
Misc : MS52751,V5E1617,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 08 11:07:37 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration





TIC: 5E35978.D\data.ms

(77) Ethylbenzene (C)

12.121min (+0.000) 0.99ug/L m

response 7721

Ion	Exp%	Act%
91.00	100	100
106.00	31.60	25.44
65.00	8.20	14.79
51.00	19.20	53.21#

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
12/09/22 10:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35979.D
Acq On : 8 Dec 2022 11:33 am
Operator : courtnef
Sample : IC1617-2
Misc : MS52751,V5E1617,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 08 13:48:16 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.951	96	347220	50.00	ug/L		0.00
61) Chlorobenzene-d5	12.109	117	240750	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	113739	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	8.073	113	95693	47.57	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.14%				
49) 1,2-Dichloroethane-d4	8.659	65	109774	53.96	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.92%				
62) Toluene-d8	10.542	98	330650	54.60	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 109.20%				
86) 4-Bromofluorobenzene	13.328	95	97585	54.19	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 108.38%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.849	85	9613	5.24	ug/L		96
3) Chloromethane	3.221	50	9681	5.31	ug/L		98
4) Vinyl Chloride	3.373	62	10347	5.32	ug/L		92
5) 1,3-Butadiene	3.403	39	7260	4.44	ug/L		96
6) Bromomethane	3.946	94	4659	5.12	ug/L		91
7) Chloroethane	4.153	64	6426	4.42	ug/L		97
8) Trichlorofluoromethane	4.391	101	11850	4.23	ug/L		99
9) Ethyl Ether	4.867	59	8051	5.50	ug/L		94
11) 1,2-Dichlorotrifluoroe...	5.147	67	11028	5.48	ug/L		95
12) 1,1-Dichloroethene	5.159	61	13625	5.83	ug/L		91
13) Freon 113	5.214	101	9482	4.85	ug/L	#	82
14) Carbon Disulfide	5.208	76	27057	4.82	ug/L		96
15) Iodomethane	5.367	142	9902	5.22	ug/L		99
16) Acrolein	5.635	56	7420	19.98	ug/L		91
17) Allyl chloride	5.818	41	8945	4.11	ug/L		93
18) Methylene Chloride	5.952	49	14967	6.11	ug/L		90
19) Acetone	6.019	43	12305	21.60	ug/L		90
20) Methyl acetate	6.171	43	23892	19.58	ug/L		95
21) trans-1,2-Dichloroethene	6.171	61	12593	5.59	ug/L		87
22) Hexane	6.269	56	7470m	5.95	ug/L		
23) Methyl Tert Butyl Ether	6.293	73	24908	4.65	ug/L		98
24) Acetonitrile	6.622	41	7421	38.65	ug/L		85
25) Di-isopropyl ether	6.750	45	23813	4.77	ug/L		95
26) Chloroprene	6.909	53	10994	4.62	ug/L		95
27) 1,1-Dichloroethane	6.939	63	16232	5.36	ug/L		98
28) Acrylonitrile	7.000	53	15251	23.55	ug/L		93
29) ETBE	7.195	59	26617	4.91	ug/L		95
30) Tert Butyl Alcohol	6.385	59	9588	34.80	ug/L		88
31) Vinyl acetate	7.214	43	78154	20.50	ug/L		96
32) cis-1,2-Dichloroethene	7.580	96	9166	4.56	ug/L		89
33) 2,2-Dichloropropane	7.701	77	13728	5.04	ug/L		92
34) Bromochloromethane	7.811	128	4666	4.56	ug/L		86
35) Cyclohexane	7.817	56	14593	5.70	ug/L		90
36) Chloroform	7.872	83	17247	5.29	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35979.D
Acq On : 8 Dec 2022 11:33 am
Operator : courtnef
Sample : IC1617-2
Misc : MS52751,V5E1617,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 08 13:48:16 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Ethyl acetate	7.976	43	37320	20.57	ug/L		99
38) Tetrahydrofuran	8.073	42	2409	4.47	ug/L		93
40) Carbon Tetrachloride	8.055	117	12251	4.91	ug/L		98
41) 1,1,1-Trichloroethane	8.122	97	13588	4.71	ug/L		95
42) 2-Butanone	8.207	43	17733	21.50	ug/L		96
43) 1,1-Dichloropropene	8.250	75	12083	5.13	ug/L		90
44) tert-Butyl formate	8.354	59	34248	62.36	ug/L		92
45) Propionitrile	8.537	54	12173	43.21	ug/L		81
46) Methacrylonitrile	8.555	41	43221m	35.47	ug/L		
47) Benzene	8.524	78	35318	5.06	ug/L		96
48) TAME	8.604	73	24134	4.60	ug/L		96
50) 1,2-Dichloroethane	8.732	62	12687	5.13	ug/L		93
51) tert Amyl alcohol	8.787	59	6797	40.61	ug/L		90
52) Trichloroethene	9.134	95	9308	4.71	ug/L		91
53) Methylcyclohexane	9.134	83	13334	4.39	ug/L		85
54) Dibromomethane	9.579	93	6110	4.51	ug/L		89
55) 1,2-Dichloropropane	9.671	63	9402	5.47	ug/L		94
56) Bromodichloromethane	9.719	83	11203	4.32	ug/L		99
57) Methyl methacrylate	9.841	41	5588	3.69	ug/L		91
58) 1,4-Dioxane	9.927	88	1304	63.74	ug/L		77
59) 2-Chloroethyl vinyl ether	10.262	63	24827	121.98	ug/L		96
60) cis-1,3-Dichloropropene	10.359	75	13370	4.73	ug/L		90
63) Toluene	10.597	91	36328	5.22	ug/L		96
64) Isobutyl alcohol	8.671	43	6467	92.74	ug/L	#	81
65) 2-Nitropropane	10.829	41	11207	21.02	ug/L		99
66) 4-Methyl-2-pentanone	10.945	43	40781	24.16	ug/L		99
67) trans-1,3-Dichloropropene	11.000	75	10777	4.83	ug/L		93
68) Tetrachloroethene	11.000	166	8868	4.67	ug/L		94
69) Ethyl methacrylate	11.103	69	8757	3.89	ug/L		91
70) 1,1,2-Trichloroethane	11.164	83	7153	5.27	ug/L		97
71) Dibromochloromethane	11.365	129	8797	4.28	ug/L		98
72) 1,3-Dichloropropane	11.451	76	13974	5.33	ug/L		96
73) 1,2-Dibromoethane	11.627	107	8218	4.57	ug/L		94
74) 3,3-Dimethyl-1-butanol	11.707	57	33581	231.23	ug/L		94
75) 2-hexanone	11.768	43	27021	22.72	ug/L		93
76) 1-Chlorohexane	12.060	91	11705	5.11	ug/L		91
77) Ethylbenzene	12.121	91	41872	5.23	ug/L		95
78) Chlorobenzene	12.133	112	23709	5.08	ug/L		97
79) 1,1,1,2-Tetrachloroethane	12.182	131	8056	4.57	ug/L		89
80) m,p-Xylene	12.262	91	61272	10.13	ug/L		97
81) o-Xylene	12.707	91	28812	4.88	ug/L		99
82) Styrene	12.755	104	21801	4.70	ug/L		97
83) Bromoform	12.822	173	5098	3.75	ug/L		88
84) Isopropylbenzene	13.005	105	38624	5.04	ug/L		95
87) cis-1,4-Dichloro-2-butene	13.682	53	2055	5.32	ug/L	#	90
88) n-Propylbenzene	13.426	91	46242	5.58	ug/L		98
89) Bromobenzene	13.456	156	9151	4.94	ug/L		87
90) 1,1,2,2-Tetrachloroethane	13.499	83	10666	5.05	ug/L		96
91) 1,3,5-Trimethylbenzene	13.609	105	30173	5.13	ug/L		99
92) 2-Chlorotoluene	13.621	91	28868	5.53	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35979.D
Acq On : 8 Dec 2022 11:33 am
Operator : courtnef
Sample : IC1617-2
Misc : MS52751,V5E1617,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 08 13:48:16 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

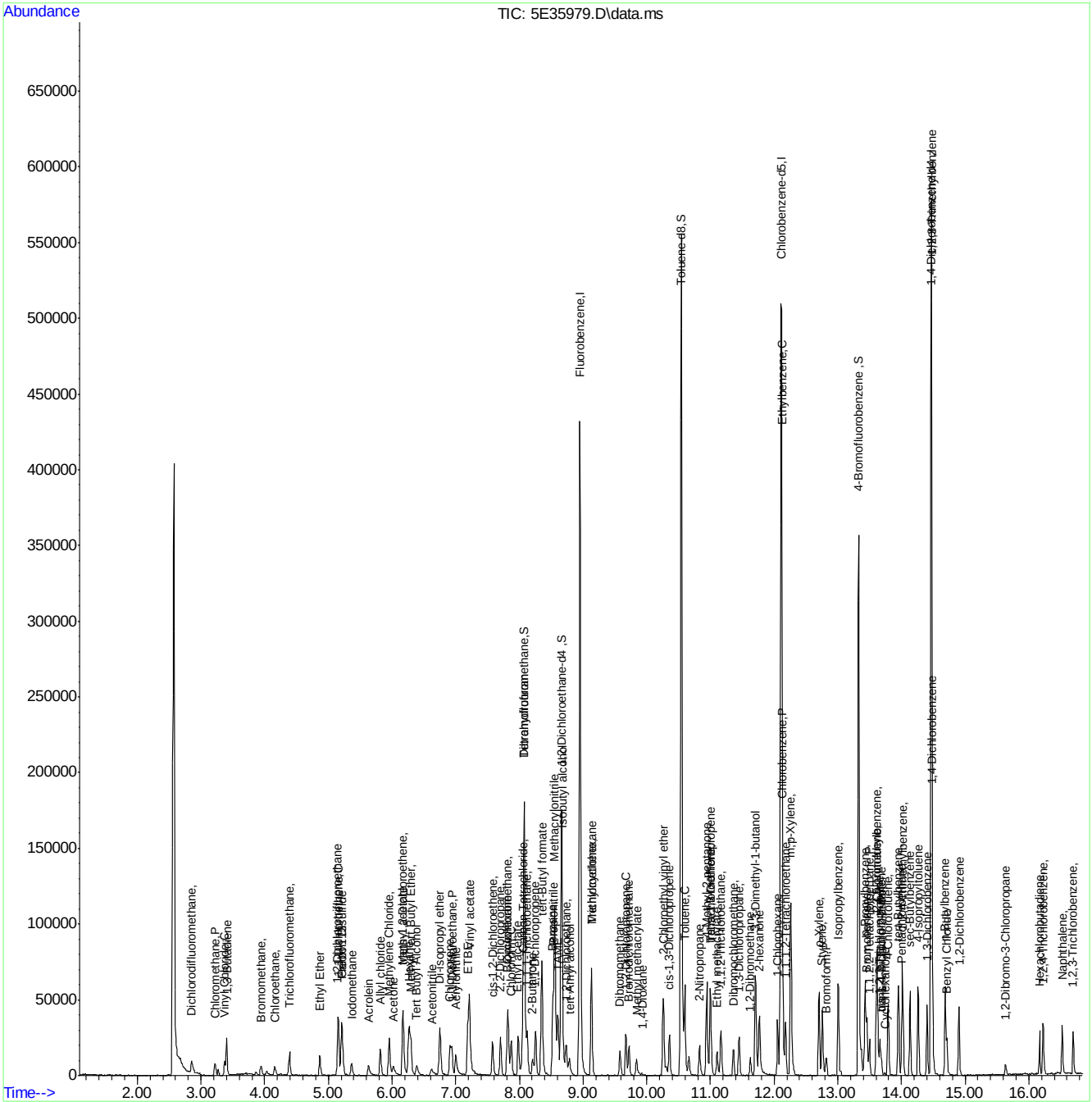
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93) trans-1,4-Dichloro-2-B...	13.682	53	2055	5.32	ug/L		92
94) 1,2,3-Trichloropropane	13.664	110	2991	4.88	ug/L		86
95) Cyclohexanone	13.737	55	1043	15.07	ug/L	#	65
96) 4-Chlorotoluene	13.792	91	25633	5.47	ug/L		98
98) tert-Butylbenzene	13.950	91	16864	5.39	ug/L		96
99) 1,2,4-Trimethylbenzene	14.023	105	28368	4.89	ug/L		90
100) Pentachloroethane	14.005	167	4590	4.04	ug/L		92
101) sec-Butylbenzene	14.133	105	36682	5.19	ug/L		97
102) 4-Isopropyltoluene	14.261	119	31711	5.08	ug/L		97
103) 1,3-Dichlorobenzene	14.401	146	16154	4.68	ug/L		92
104) 1,2,3-Trimethylbenzene	14.475	105	29242	4.89	ug/L		87
105) 1,4-Dichlorobenzene	14.487	146	18246	4.75	ug/L		91
106) n-Butylbenzene	14.688	92	16955	5.16	ug/L		99
107) Benzyl Chloride	14.712	126	2589	3.65	ug/L	#	78
108) 1,2-Dichlorobenzene	14.907	146	15458	4.60	ug/L		99
109) 1,2-Dibromo-3-Chloropr...	15.639	75	1364	3.88	ug/L	#	81
110) Hexachlorobutadiene	16.169	225	3708	5.49	ug/L		90
111) 1,2,4-Trichlorobenzene	16.230	180	9054	4.78	ug/L		97
112) Naphthalene	16.523	128	23282	4.26	ug/L		97
113) 1,2,3-Trichlorobenzene	16.694	180	7266	4.64	ug/L		94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35979.D
Acq On : 8 Dec 2022 11:33 am
Operator : courtnef
Sample : IC1617-2
Misc : MS52751,V5E1617,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 08 13:48:16 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V5E1617-IC1617
Lab FileID: 5E35979.D
Injection Time: 12/08/22 11:33

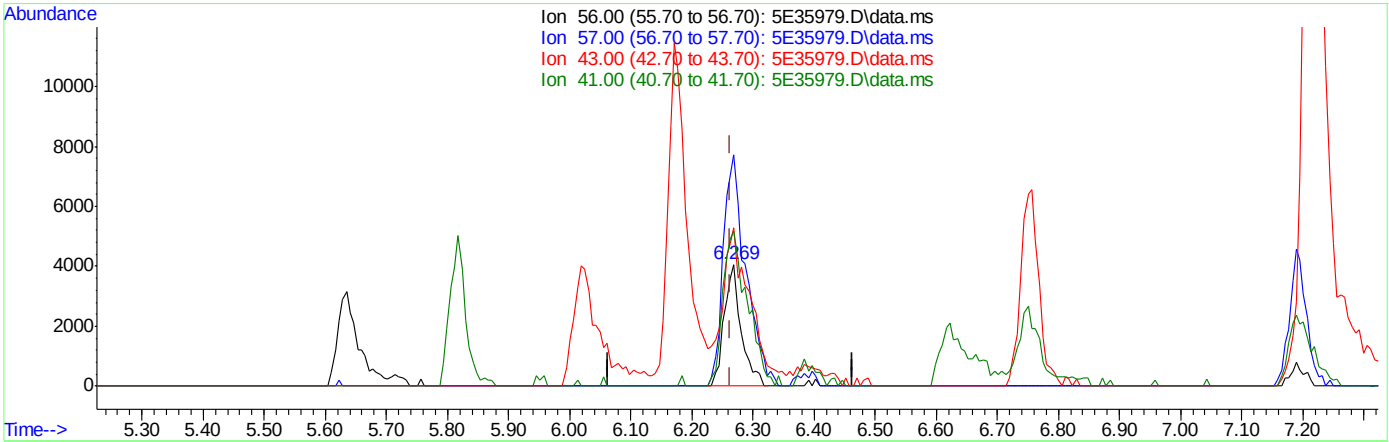
Method: SW846 8260D
Analyst approved: 12/08/22 16:36 Courtney Failla
Supervisor approved: 12/09/22 10:44 Karen Watson

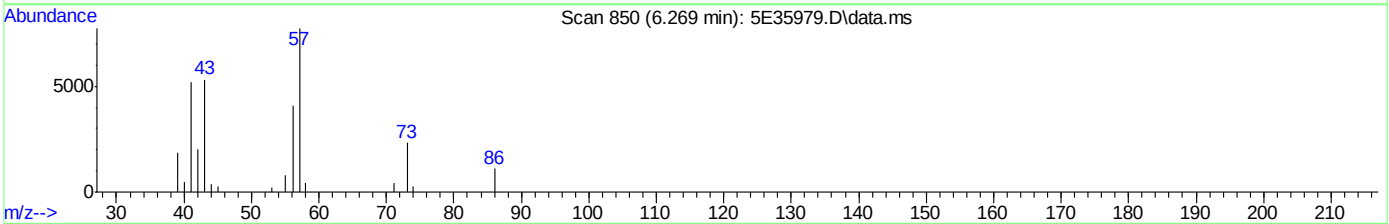
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		6.27	Overlapping peak
Methacrylonitrile	126-98-7		8.55	Overlapping peak

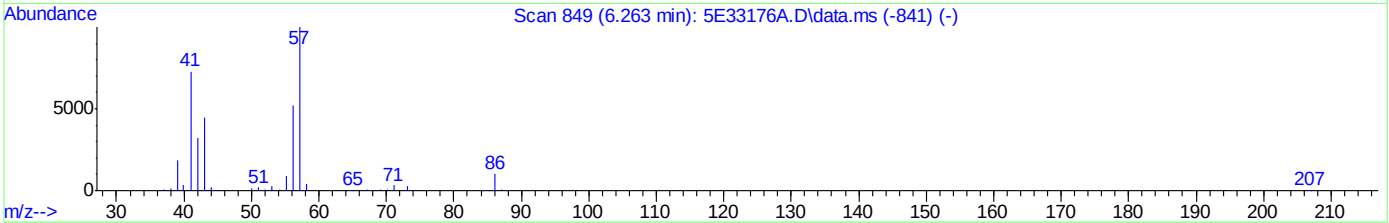
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35979.D
Acq On : 8 Dec 2022 11:33 am
Operator : courtnef
Sample : IC1617-2
Misc : MS52751,V5E1617,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 08 13:46:54 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration







TIC: 5E35979.D\data.ms

(22) Hexane

6.269min (+0.006) 6.23ug/L

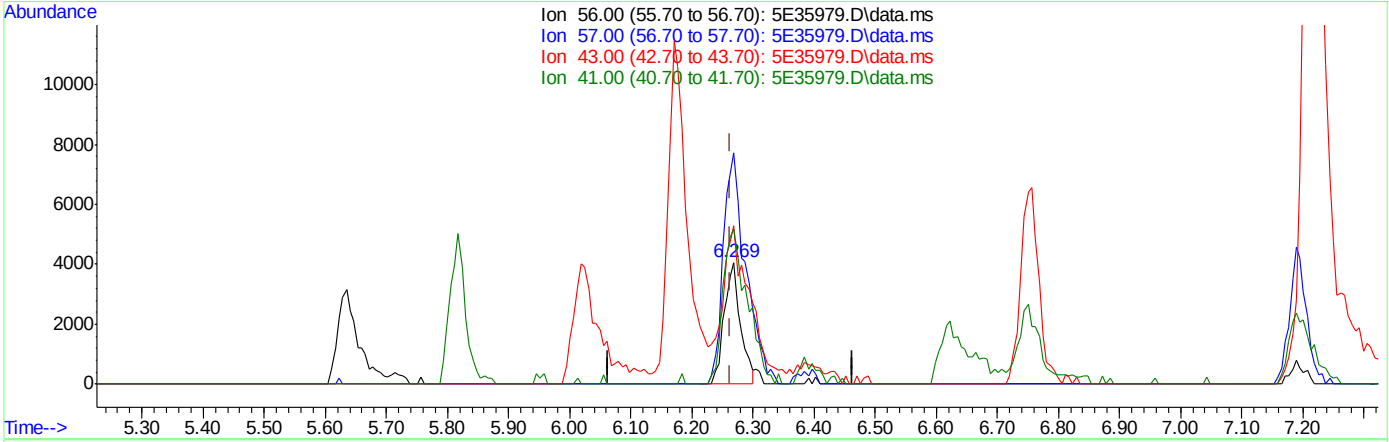
response 7813

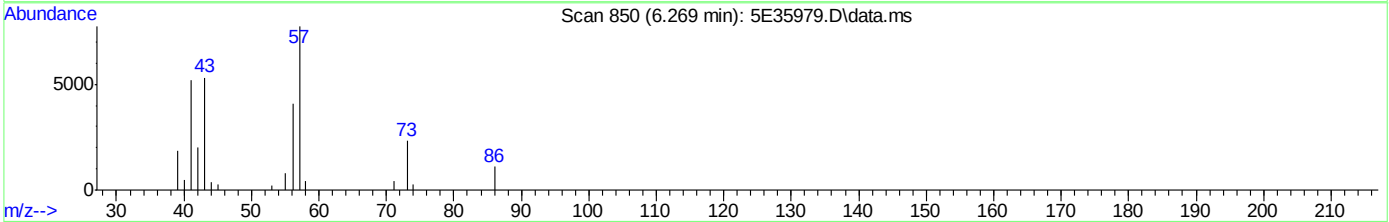
Ion	Exp%	Act%
56.00	100	100
57.00	202.40	189.86
43.00	128.00	113.26
41.00	148.90	127.50#

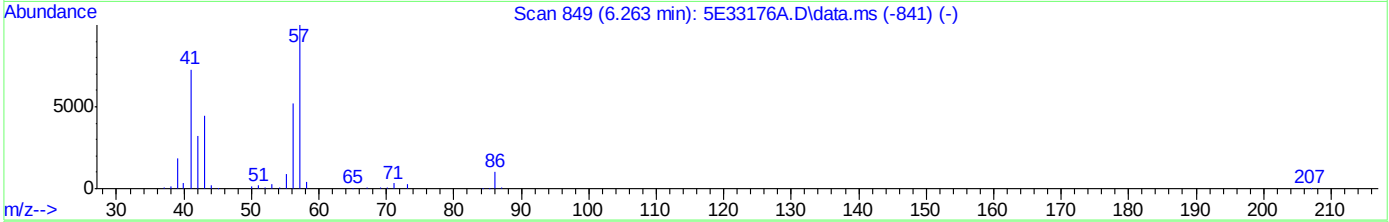
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35979.D
Acq On : 8 Dec 2022 11:33 am
Operator : courtnef
Sample : IC1617-2
Misc : MS52751,V5E1617,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 08 13:46:54 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration







TIC: 5E35979.D\data.ms

(22) Hexane

6.269min (+0.006) 5.95ug/L m

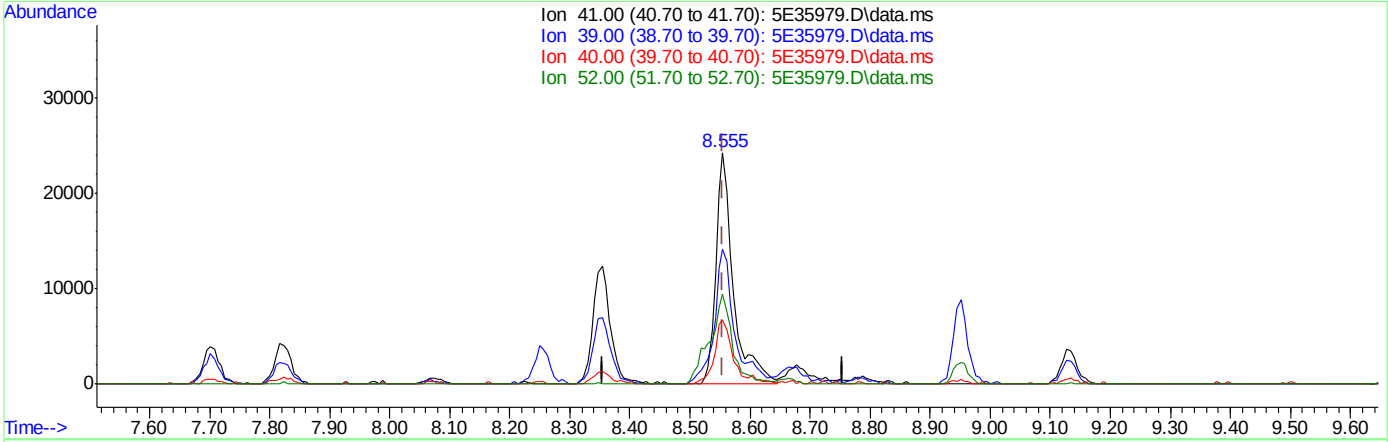
response 7470

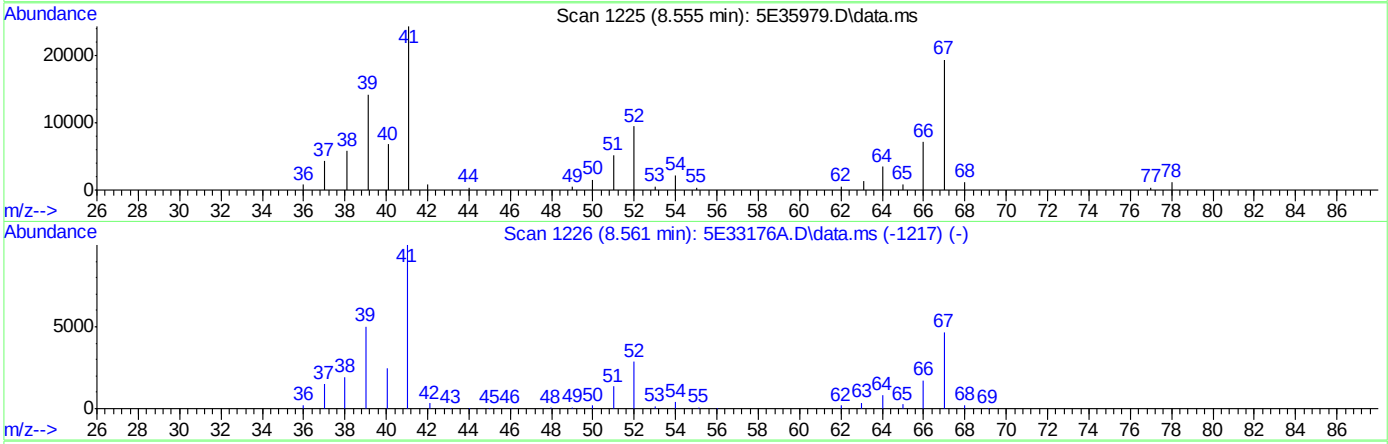
Ion	Exp%	Act%
56.00	100	100
57.00	202.40	189.86
43.00	128.00	130.25
41.00	148.90	127.50#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35979.D
Acq On : 8 Dec 2022 11:33 am
Operator : courtnef
Sample : IC1617-2
Misc : MS52751,V5E1617,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 08 13:46:54 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration





TIC: 5E35979.D\data.ms

(46) Methacrylonitrile

8.555min (-0.000) 40.05ug/L

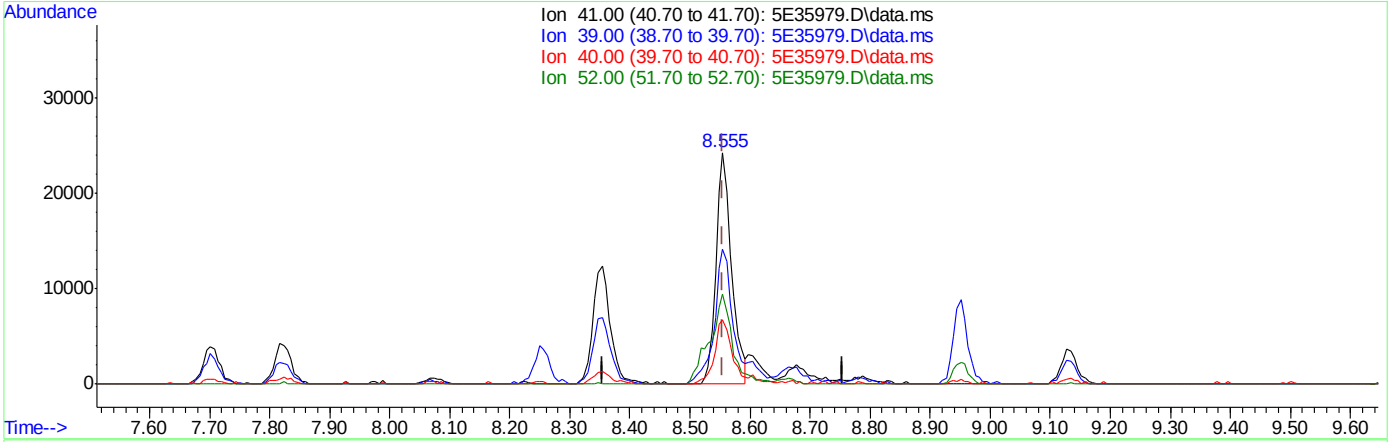
response 48810

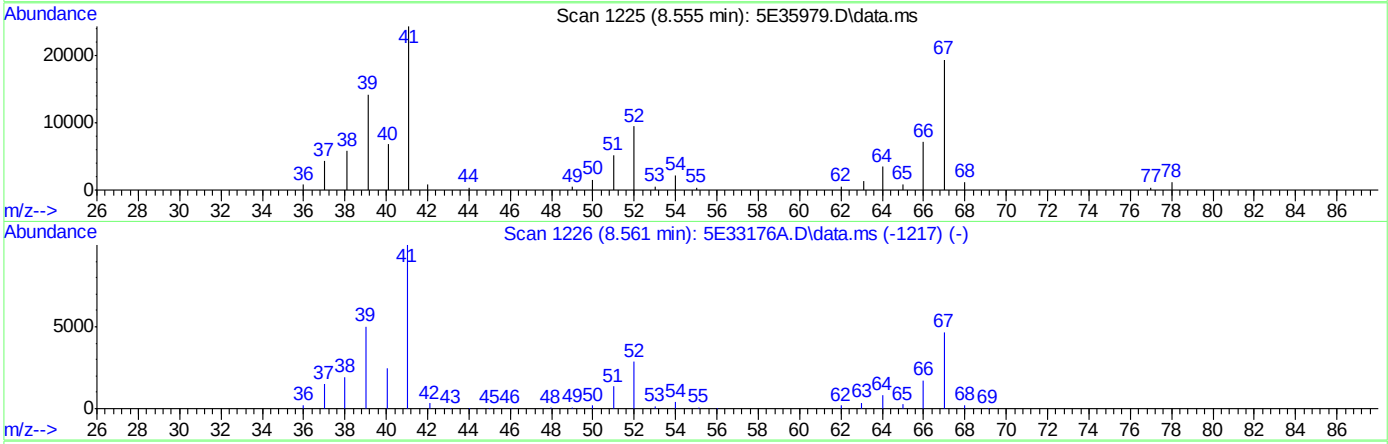
Ion	Exp%	Act%
41.00	100	100
39.00	58.40	54.68
40.00	26.50	26.94
52.00	33.80	37.20

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35979.D
Acq On : 8 Dec 2022 11:33 am
Operator : courtnef
Sample : IC1617-2
Misc : MS52751,V5E1617,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 08 13:46:54 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration





TIC: 5E35979.D\data.ms

(46) Methacrylonitrile

8.555min (-0.000) 35.47ug/L m

response 43221

Ion	Exp%	Act%
41.00	100	100
39.00	58.40	58.35
40.00	26.50	27.83
52.00	33.80	38.73

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
12/09/22 10:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35980.D
Acq On : 8 Dec 2022 11:56 am
Operator : courtnef
Sample : IC1617-3
Misc : MS52751,V5E1617,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 08 13:53:08 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	332285	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	234022	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	110165	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.079	113	93223	48.42	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.84%			
49) 1,2-Dichloroethane-d4	8.664	65	106836	54.88	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.76%			
62) Toluene-d8	10.542	98	322752	54.83	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 109.66%			
86) 4-Bromofluorobenzene	13.328	95	94035	53.91	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.82%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.855	85	21315	12.15	ug/L	94
3) Chloromethane	3.220	50	20911	11.98	ug/L	94
4) Vinyl Chloride	3.373	62	22495	12.09	ug/L	90
5) 1,3-Butadiene	3.403	39	13612	8.76	ug/L	96
6) Bromomethane	3.946	94	10799	12.18	ug/L	96
7) Chloroethane	4.153	64	14629	10.27	ug/L	92
8) Trichlorofluoromethane	4.391	101	26202	9.77	ug/L	95
9) Ethyl Ether	4.866	59	13605	9.72	ug/L	99
10) Ethanol	5.208	45	627	33.37	ug/L	70
11) 1,2-Dichlorotrifluoroe...	5.147	67	20359	10.57	ug/L	85
12) 1,1-Dichloroethene	5.159	61	24663	11.02	ug/L	93
13) Freon 113	5.220	101	16599	8.89	ug/L	92
14) Carbon Disulfide	5.208	76	45924	8.54	ug/L	99
15) Iodomethane	5.366	142	21689	11.80	ug/L	98
16) Acrolein	5.628	56	15539	43.72	ug/L	96
17) Allyl chloride	5.817	41	17635	8.47	ug/L	87
18) Methylene Chloride	5.958	49	24284	10.38	ug/L	98
19) Acetone	6.019	43	25833	47.37	ug/L	92
20) Methyl acetate	6.171	43	49282	42.21	ug/L	98
21) trans-1,2-Dichloroethene	6.171	61	22351	10.37	ug/L	90
22) Hexane	6.263	56	14615	12.17	ug/L	89
23) Methyl Tert Butyl Ether	6.293	73	46499	9.07	ug/L	92
24) Acetonitrile	6.610	41	16780	90.58	ug/L	86
25) Di-isopropyl ether	6.756	45	44475	9.31	ug/L	96
26) Chloroprene	6.909	53	21764	9.56	ug/L	93
27) 1,1-Dichloroethane	6.939	63	29770	10.26	ug/L	94
28) Acrylonitrile	7.000	53	34249	55.25	ug/L	95
29) ETBE	7.189	59	51089	9.85	ug/L	93
30) Tert Butyl Alcohol	6.391	59	24857	94.26	ug/L	96
31) Vinyl acetate	7.214	43	157551	43.18	ug/L	97
32) cis-1,2-Dichloroethene	7.579	96	17464	9.08	ug/L	83
33) 2,2-Dichloropropane	7.707	77	24794	9.51	ug/L	96
34) Bromochloromethane	7.805	128	8196	8.38	ug/L #	84
35) Cyclohexane	7.823	56	28111	11.47	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35980.D
Acq On : 8 Dec 2022 11:56 am
Operator : courtnef
Sample : IC1617-3
Misc : MS52751,V5E1617,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 08 13:53:08 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	7.878	83	29121	9.34	ug/L		95
37) Ethyl acetate	7.982	43	81831	47.13	ug/L		98
38) Tetrahydrofuran	8.073	42	5234	10.14	ug/L		92
40) Carbon Tetrachloride	8.055	117	21344	8.94	ug/L		93
41) 1,1,1-Trichloroethane	8.122	97	25454	9.23	ug/L		92
42) 2-Butanone	8.207	43	37996	48.13	ug/L		92
43) 1,1-Dichloropropene	8.256	75	22479	9.97	ug/L		96
44) tert-Butyl formate	8.354	59	69582	129.24	ug/L		98
45) Propionitrile	8.536	54	27204	100.91	ug/L	#	77
46) Methacrylonitrile	8.555	41	93128m	79.86	ug/L		
47) Benzene	8.524	78	63955	9.57	ug/L		98
48) TAME	8.604	73	45729	9.10	ug/L		97
50) 1,2-Dichloroethane	8.738	62	24175	10.22	ug/L		94
51) tert Amyl alcohol	8.786	59	15107	93.27	ug/L		92
52) Trichloroethene	9.134	95	17086	9.04	ug/L		92
53) Methylcyclohexane	9.134	83	26560	9.14	ug/L		97
54) Dibromomethane	9.579	93	11707	9.02	ug/L		94
55) 1,2-Dichloropropane	9.670	63	18411	11.20	ug/L		95
56) Bromodichloromethane	9.725	83	21355	8.60	ug/L		95
57) Methyl methacrylate	9.841	41	12610	8.65	ug/L		89
58) 1,4-Dioxane	9.920	88	2964	150.43	ug/L		90
59) 2-Chloroethyl vinyl ether	10.256	63	54682	280.75	ug/L		96
60) cis-1,3-Dichloropropene	10.353	75	23499	8.69	ug/L		96
63) Toluene	10.597	91	67069	9.91	ug/L		99
64) Isobutyl alcohol	8.677	43	13385	195.68	ug/L		90
65) 2-Nitropropane	10.829	41	22559	43.53	ug/L		91
66) 4-Methyl-2-pentanone	10.938	43	88541	53.95	ug/L		95
67) trans-1,3-Dichloropropene	10.999	75	21184	9.77	ug/L		92
68) Tetrachloroethene	10.999	166	16779	9.09	ug/L		97
69) Ethyl methacrylate	11.103	69	19933	9.12	ug/L		86
70) 1,1,2-Trichloroethane	11.170	83	13266	10.06	ug/L		95
71) Dibromochloromethane	11.359	129	16383	8.20	ug/L		93
72) 1,3-Dichloropropane	11.451	76	25656	10.07	ug/L		94
73) 1,2-Dibromoethane	11.627	107	15401	8.81	ug/L		97
74) 3,3-Dimethyl-1-butanol	11.707	57	81117	561.74	ug/L		91
75) 2-hexanone	11.768	43	61114	52.86	ug/L		92
76) 1-Chlorohexane	12.060	91	21846	9.81	ug/L		94
77) Ethylbenzene	12.121	91	74600	9.59	ug/L		95
78) Chlorobenzene	12.127	112	43288	9.55	ug/L		91
79) 1,1,1,2-Tetrachloroethane	12.176	131	14801	8.64	ug/L		88
80) m,p-Xylene	12.261	91	110856	18.86	ug/L		99
81) o-Xylene	12.706	91	53896	9.39	ug/L		96
82) Styrene	12.755	104	40667	9.01	ug/L		96
83) Bromoform	12.816	173	9695	7.34	ug/L		94
84) Isopropylbenzene	13.005	105	69612	9.35	ug/L		98
87) cis-1,4-Dichloro-2-butene	13.682	53	4788	12.59	ug/L	#	86
88) n-Propylbenzene	13.426	91	85909	10.69	ug/L		96
89) Bromobenzene	13.456	156	16792	9.36	ug/L		84
90) 1,1,2,2-Tetrachloroethane	13.499	83	20850	10.20	ug/L		98
91) 1,3,5-Trimethylbenzene	13.609	105	55157	9.68	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35980.D
Acq On : 8 Dec 2022 11:56 am
Operator : courtnef
Sample : IC1617-3
Misc : MS52751,V5E1617,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 08 13:53:08 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

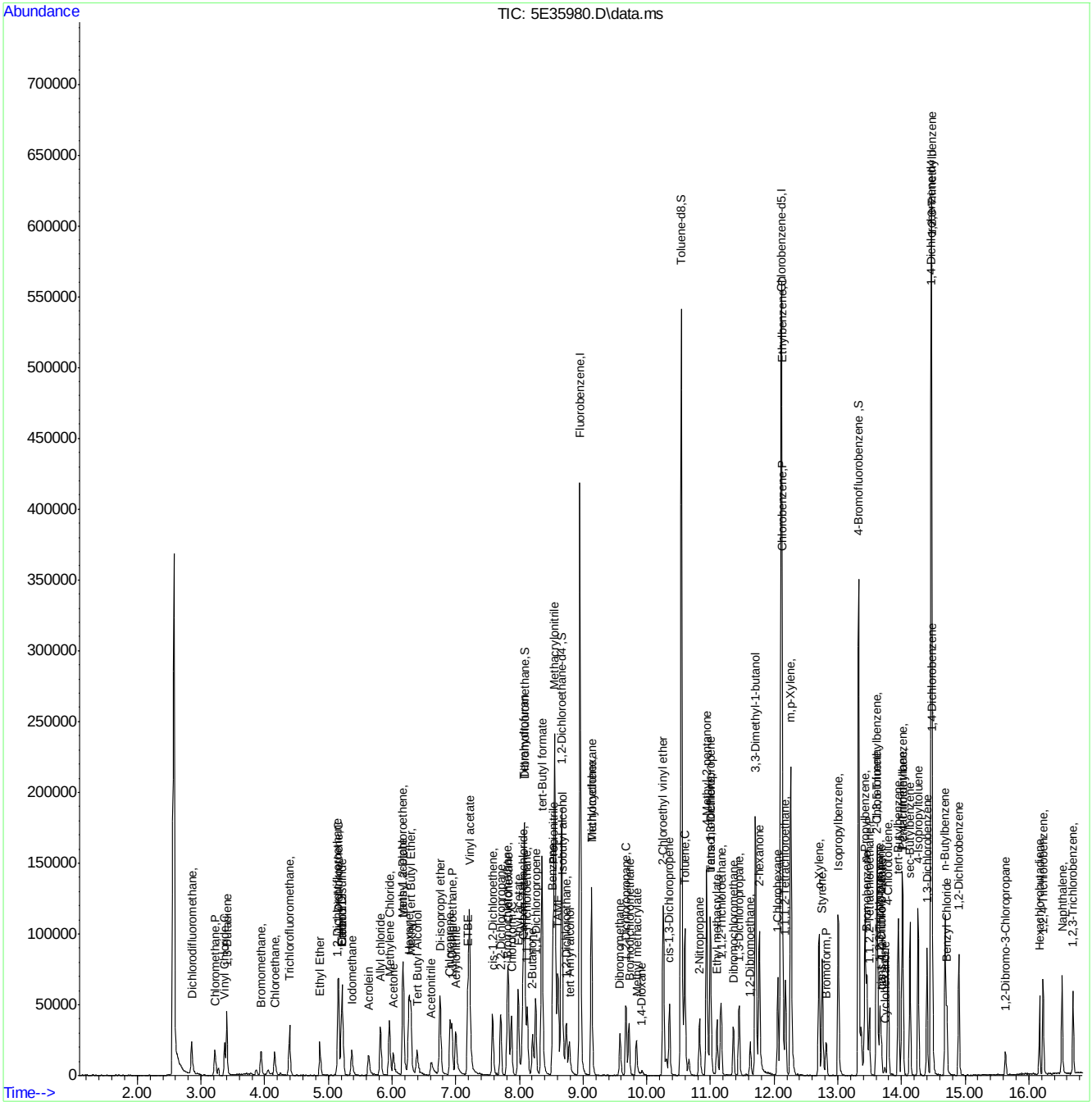
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	13.621	91	50084	9.91	ug/L		98
93)	trans-1,4-Dichloro-2-B...	13.682	53	4788	12.59	ug/L	#	80
94)	1,2,3-Trichloropropane	13.664	110	5592	9.42	ug/L		96
95)	Cyclohexanone	13.737	55	2543	37.93	ug/L		96
96)	4-Chlorotoluene	13.792	91	46002	10.14	ug/L		95
98)	tert-Butylbenzene	13.950	91	30071	9.92	ug/L		95
99)	1,2,4-Trimethylbenzene	14.023	105	53103	9.45	ug/L		92
100)	Pentachloroethane	14.011	167	9931	9.01	ug/L		88
101)	sec-Butylbenzene	14.133	105	67711	9.90	ug/L		98
102)	4-Isopropyltoluene	14.261	119	59105	9.77	ug/L		98
103)	1,3-Dichlorobenzene	14.401	146	31482	9.41	ug/L		98
104)	1,2,3-Trimethylbenzene	14.474	105	54631	9.42	ug/L		97
105)	1,4-Dichlorobenzene	14.487	146	33631	9.04	ug/L		93
106)	n-Butylbenzene	14.688	92	31326	9.83	ug/L		97
107)	Benzyl Chloride	14.712	126	5923	8.52	ug/L	#	63
108)	1,2-Dichlorobenzene	14.901	146	29244	8.98	ug/L		96
109)	1,2-Dibromo-3-Chloropr...	15.639	75	2847	8.34	ug/L		90
110)	Hexachlorobutadiene	16.169	225	6609	10.10	ug/L		97
111)	1,2,4-Trichlorobenzene	16.224	180	16416	8.95	ug/L		95
112)	Naphthalene	16.523	128	46658	8.82	ug/L		98
113)	1,2,3-Trichlorobenzene	16.693	180	14392	9.48	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35980.D
Acq On : 8 Dec 2022 11:56 am
Operator : courtnef
Sample : IC1617-3
Misc : MS52751,V5E1617,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 08 13:53:08 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V5E1617-IC1617
Lab FileID: 5E35980.D
Injection Time: 12/08/22 11:56

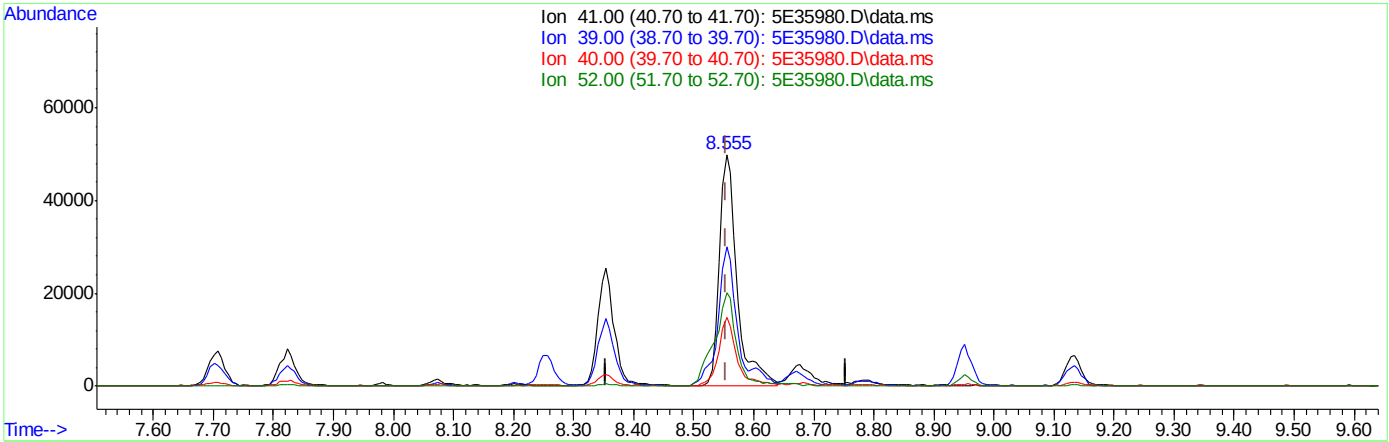
Method: SW846 8260D
Analyst approved: 12/08/22 16:36 Courtney Failla
Supervisor approved: 12/09/22 10:44 Karen Watson

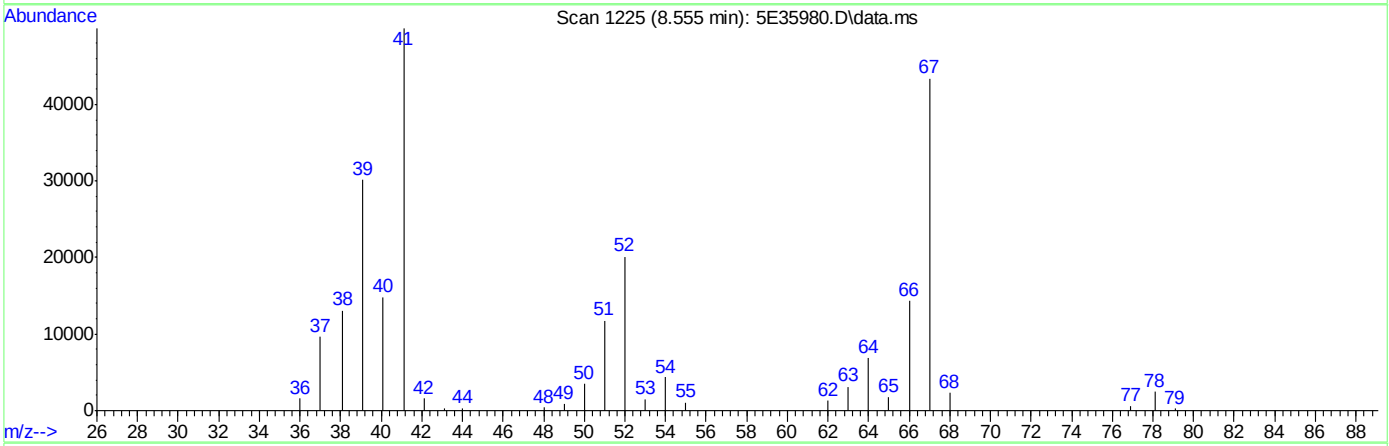
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methacrylonitrile	126-98-7		8.55	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35980.D
Acq On : 8 Dec 2022 11:56 am
Operator : courtnef
Sample : IC1617-3
Misc : MS52751,V5E1617,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 08 13:46:57 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration





TIC: 5E35980.D\data.ms

(46) Methacrylonitrile

8.555min (-0.000) 87.46ug/L

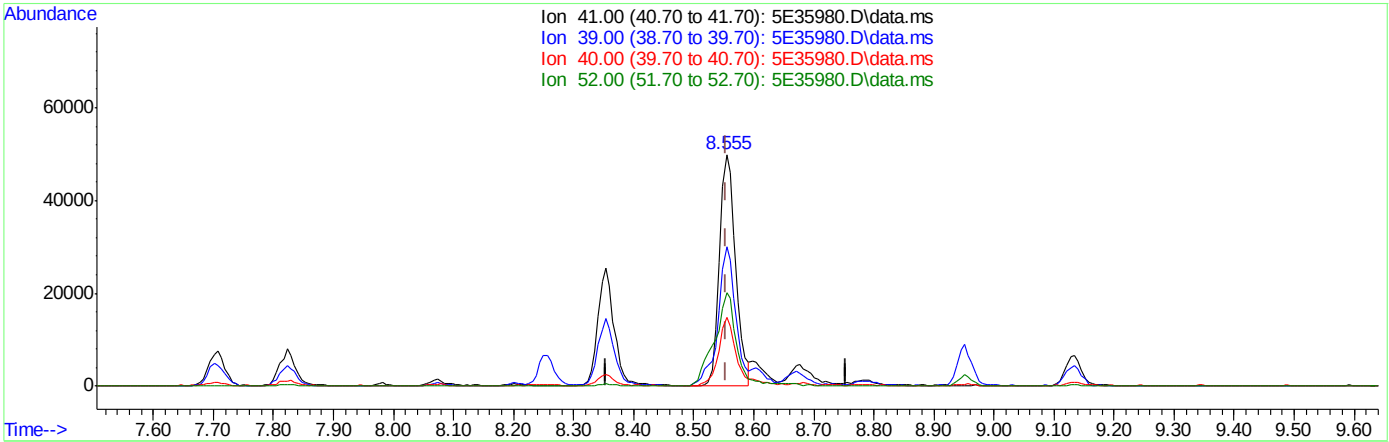
response 101992

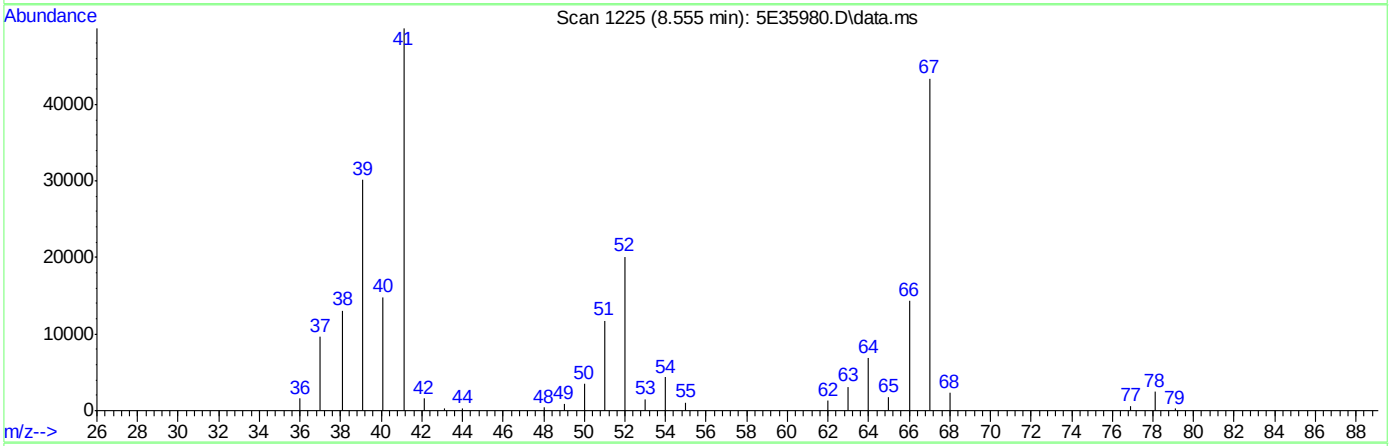
Ion	Exp%	Act%
41.00	100	100
39.00	58.40	58.65
40.00	26.50	29.65
52.00	33.80	39.28

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35980.D
Acq On : 8 Dec 2022 11:56 am
Operator : courtnef
Sample : IC1617-3
Misc : MS52751,V5E1617,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 08 13:46:57 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration





TIC: 5E35980.D\data.ms

(46) Methacrylonitrile

8.555min (-0.000) 79.86ug/L m

response 93128

Ion	Exp%	Act%
41.00	100	100
39.00	58.40	60.35
40.00	26.50	29.65
52.00	33.80	40.20

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
12/09/22 10:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35981.D
Acq On : 8 Dec 2022 12:19 pm
Operator : courtnef
Sample : IC1617-4
Misc : MS52751,V5E1617,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 08 13:51:07 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.951	96	348214	50.00	ug/L		0.00
61) Chlorobenzene-d5	12.115	117	246209	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	120891	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	8.079	113	94470	46.82	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 93.64%				
49) 1,2-Dichloroethane-d4	8.665	65	110344	54.09	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.18%				
62) Toluene-d8	10.542	98	340139	54.92	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 109.84%				
86) 4-Bromofluorobenzene	13.328	95	98392	51.40	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.849	85	52951	28.81	ug/L		93
3) Chloromethane	3.221	50	50017	27.35	ug/L		94
4) Vinyl Chloride	3.367	62	53175	27.28	ug/L		99
5) 1,3-Butadiene	3.403	39	34791	21.84	ug/L		85
6) Bromomethane	3.940	94	28173	29.02	ug/L		91
7) Chloroethane	4.153	64	39074	24.74	ug/L		100
8) Trichlorofluoromethane	4.385	101	66135	23.52	ug/L		97
9) Ethyl Ether	4.867	59	40008	27.27	ug/L		96
10) Ethanol	5.098	45	6208	315.31	ug/L		96
11) 1,2-Dichlorotrifluoroe...	5.153	67	58080	28.78	ug/L		89
12) 1,1-Dichloroethene	5.159	61	72368	30.86	ug/L		92
13) Freon 113	5.220	101	47871	24.57	ug/L		94
14) Carbon Disulfide	5.208	76	130841	23.22	ug/L		95
15) Iodomethane	5.366	142	65481	32.69	ug/L		98
16) Acrolein	5.635	56	45676	122.65	ug/L		91
17) Allyl chloride	5.818	41	49207	22.55	ug/L		91
18) Methylene Chloride	5.958	49	63938	26.33	ug/L		91
19) Acetone	6.019	43	71687	125.45	ug/L		99
20) Methyl acetate	6.171	43	141240	115.43	ug/L		99
21) trans-1,2-Dichloroethene	6.171	61	66952	29.65	ug/L		92
22) Hexane	6.263	56	41585	33.04	ug/L	#	88
23) Methyl Tert Butyl Ether	6.293	73	134537	25.05	ug/L		93
24) Acetonitrile	6.616	41	45448	229.17	ug/L		96
25) Di-isopropyl ether	6.750	45	126664	25.30	ug/L		99
26) Chloroprene	6.909	53	58275	24.43	ug/L		95
27) 1,1-Dichloroethane	6.939	63	87711	28.86	ug/L		96
28) Acrylonitrile	6.994	53	79207	121.94	ug/L		95
29) ETBE	7.189	59	150049	27.60	ug/L		93
30) Tert Butyl Alcohol	6.391	59	67803	245.37	ug/L		99
31) Vinyl acetate	7.214	43	406143	106.22	ug/L		97
32) cis-1,2-Dichloroethene	7.579	96	47843	23.73	ug/L		87
33) 2,2-Dichloropropane	7.701	77	68581	25.10	ug/L		97
34) Bromochloromethane	7.811	128	25597	24.97	ug/L		90
35) Cyclohexane	7.823	56	78104	30.41	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35981.D
Acq On : 8 Dec 2022 12:19 pm
Operator : courtnef
Sample : IC1617-4
Misc : MS52751,V5E1617,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 08 13:51:07 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Chloroform	7.872	83	84836	25.97	ug/L	95
37) Ethyl acetate	7.976	43	201963	111.00	ug/L	98
38) Tetrahydrofuran	8.067	42	13906	25.61	ug/L	93
40) Carbon Tetrachloride	8.055	117	62475	24.96	ug/L	97
41) 1,1,1-Trichloroethane	8.122	97	71783	24.83	ug/L	95
42) 2-Butanone	8.201	43	111230	134.44	ug/L	97
43) 1,1-Dichloropropene	8.256	75	64255	27.20	ug/L	94
44) tert-Butyl formate	8.354	59	185595	309.20	ug/L	95
45) Propionitrile	8.537	54	75286	266.49	ug/L	83
46) Methacrylonitrile	8.555	41	261394m	213.89	ug/L	
47) Benzene	8.524	78	183068	26.14	ug/L	99
48) TAME	8.610	73	132765	25.21	ug/L	98
50) 1,2-Dichloroethane	8.738	62	70916	28.61	ug/L	95
51) tert Amyl alcohol	8.787	59	47949	272.21	ug/L	93
52) Trichloroethene	9.134	95	49576	25.02	ug/L	93
53) Methylcyclohexane	9.134	83	79721	26.14	ug/L	92
54) Dibromomethane	9.579	93	33027	24.29	ug/L	94
55) 1,2-Dichloropropane	9.671	63	50669	29.42	ug/L	94
56) Bromodichloromethane	9.725	83	63620	24.46	ug/L	98
57) Methyl methacrylate	9.835	41	36803	23.78	ug/L	95
58) 1,4-Dioxane	9.920	88	9084	431.00	ug/L	88
59) 2-Chloroethyl vinyl ether	10.262	63	145283	711.79	ug/L	94
60) cis-1,3-Dichloropropene	10.353	75	71492	25.22	ug/L	98
63) Toluene	10.597	91	191256	26.87	ug/L	97
64) Isobutyl alcohol	8.671	43	37754	510.55	ug/L	91
65) 2-Nitropropane	10.829	41	68770	126.13	ug/L	97
66) 4-Methyl-2-pentanone	10.939	43	262614	152.11	ug/L	95
67) trans-1,3-Dichloropropene	10.999	75	63037	27.62	ug/L	82
68) Tetrachloroethene	10.999	166	48182	24.80	ug/L	94
69) Ethyl methacrylate	11.103	69	58730	25.54	ug/L	94
70) 1,1,2-Trichloroethane	11.164	83	37465	27.01	ug/L	92
71) Dibromochloromethane	11.359	129	49881	23.73	ug/L	99
72) 1,3-Dichloropropane	11.451	76	76342	28.49	ug/L	99
73) 1,2-Dibromoethane	11.627	107	46247	25.15	ug/L	92
74) 3,3-Dimethyl-1-butanol	11.707	57	227373	1414.87	ug/L	95
75) 2-hexanone	11.768	43	183062	150.51	ug/L	92
76) 1-Chlorohexane	12.060	91	64323	27.45	ug/L	95
77) Ethylbenzene	12.121	91	212789	26.00	ug/L	98
78) Chlorobenzene	12.127	112	127390	26.71	ug/L	94
79) 1,1,1,2-Tetrachloroethane	12.176	131	44754	24.82	ug/L	98
80) m,p-Xylene	12.261	91	324150	52.41	ug/L	99
81) o-Xylene	12.706	91	157993	26.15	ug/L	99
82) Styrene	12.755	104	123440	26.01	ug/L	94
83) Bromoform	12.822	173	29667	21.36	ug/L	98
84) Isopropylbenzene	13.005	105	199466	25.46	ug/L	97
87) cis-1,4-Dichloro-2-butene	13.682	53	14737	33.70	ug/L	93
88) n-Propylbenzene	13.426	91	255185	28.95	ug/L	97
89) Bromobenzene	13.456	156	48873	24.81	ug/L	87
90) 1,1,2,2-Tetrachloroethane	13.499	83	62776	27.98	ug/L	98
91) 1,3,5-Trimethylbenzene	13.609	105	165425	26.46	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35981.D
Acq On : 8 Dec 2022 12:19 pm
Operator : courtnef
Sample : IC1617-4
Misc : MS52751,V5E1617,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 08 13:51:07 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

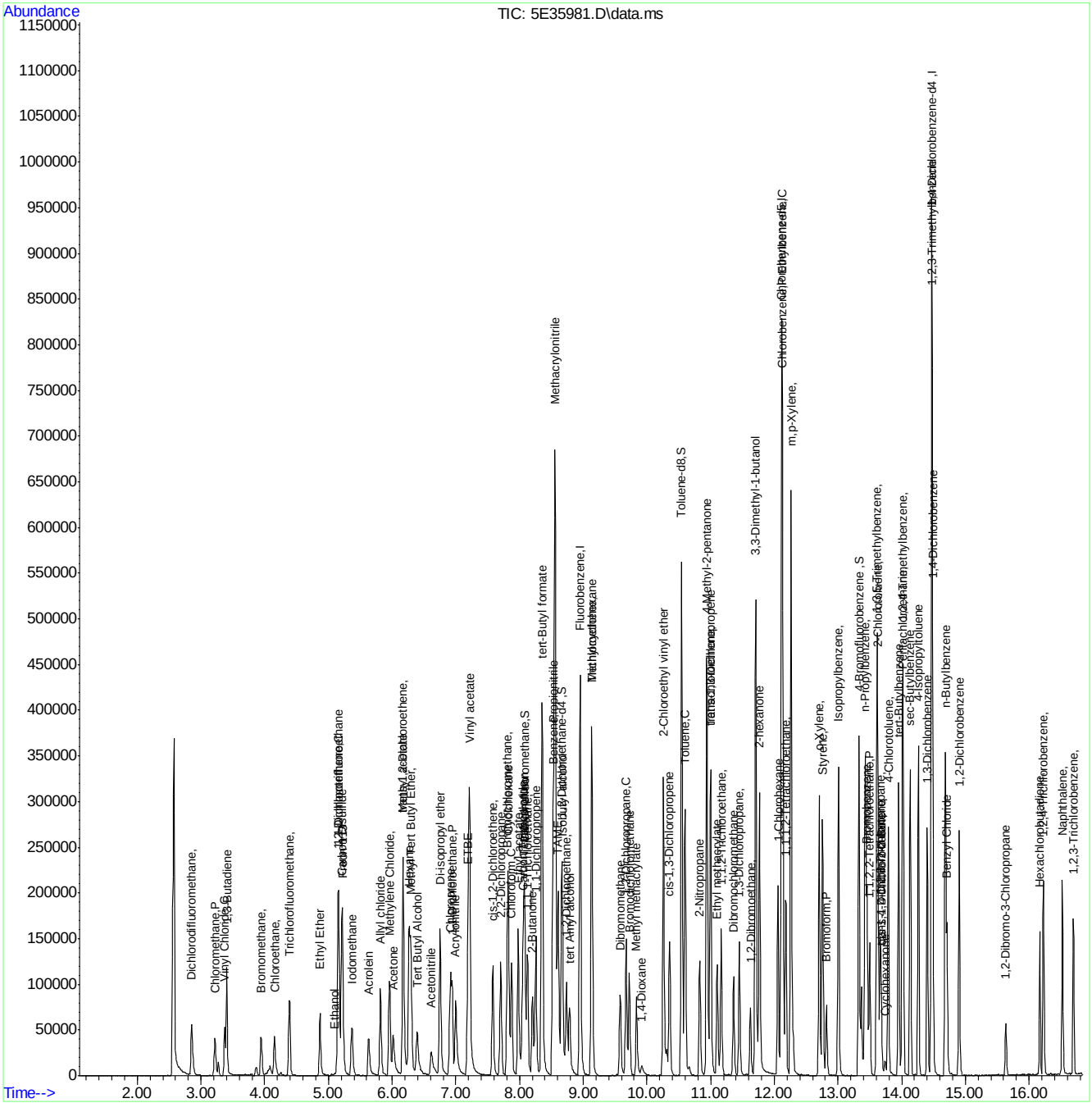
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	13.621	91	152364	27.47	ug/L		97
93)	trans-1,4-Dichloro-2-B...	13.682	53	14737	33.70	ug/L		91
94)	1,2,3-Trichloropropane	13.664	110	17172	26.35	ug/L		90
95)	Cyclohexanone	13.737	55	7752	105.37	ug/L		87
96)	4-Chlorotoluene	13.792	91	136193	27.36	ug/L		96
98)	tert-Butylbenzene	13.950	91	89064	26.76	ug/L		96
99)	1,2,4-Trimethylbenzene	14.017	105	163462	26.52	ug/L		98
100)	Pentachloroethane	14.011	167	29275	24.21	ug/L		89
101)	sec-Butylbenzene	14.133	105	207815	27.69	ug/L		98
102)	4-Isopropyltoluene	14.261	119	182434	27.49	ug/L		99
103)	1,3-Dichlorobenzene	14.401	146	91731	24.98	ug/L		95
104)	1,2,3-Trimethylbenzene	14.474	105	163244	25.66	ug/L		98
105)	1,4-Dichlorobenzene	14.487	146	99777	24.45	ug/L		94
106)	n-Butylbenzene	14.688	92	95733	27.39	ug/L		98
107)	Benzyl Chloride	14.712	126	20137	25.41	ug/L	#	89
108)	1,2-Dichlorobenzene	14.901	146	87133	24.39	ug/L		97
109)	1,2-Dibromo-3-Chloropr...	15.633	75	9136	24.09	ug/L		91
110)	Hexachlorobutadiene	16.169	225	18710	26.06	ug/L		97
111)	1,2,4-Trichlorobenzene	16.224	180	49474	24.58	ug/L		95
112)	Naphthalene	16.523	128	141106	24.31	ug/L		99
113)	1,2,3-Trichlorobenzene	16.694	180	42352	25.43	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35981.D
Acq On : 8 Dec 2022 12:19 pm
Operator : courtnef
Sample : IC1617-4
Misc : MS52751,V5E1617,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 08 13:51:07 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration



Manual Integration Approval Summary

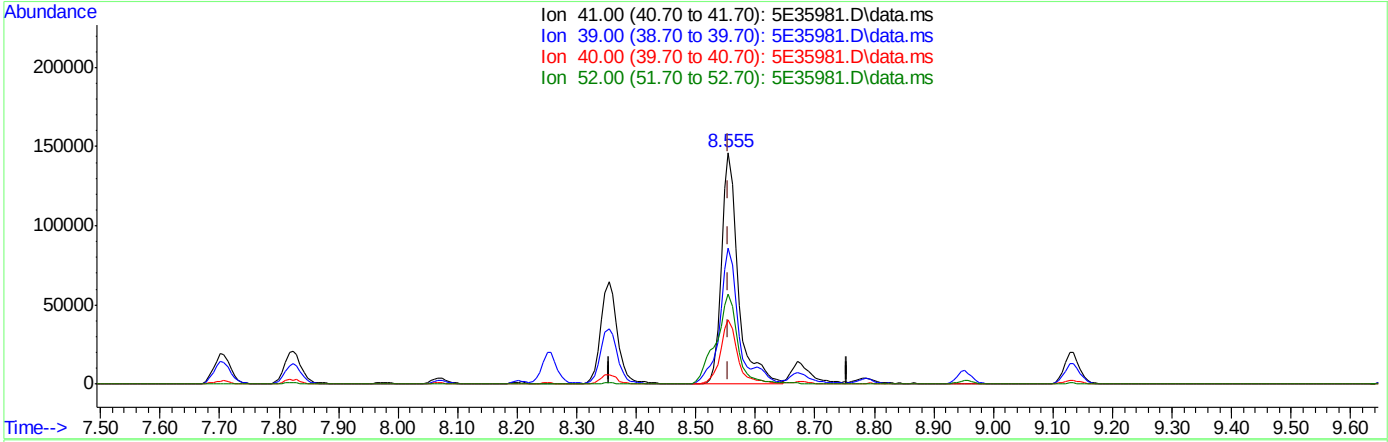
Sample Number:	V5E1617-IC1617	**Method:**	SW846 8260D
Lab FileID:	5E35981.D	**Analyst approved:**	12/08/22 16:36 Courtney Failla
Injection Time:	12/08/22 12:19	**Supervisor approved:**	12/09/22 10:44 Karen Watson

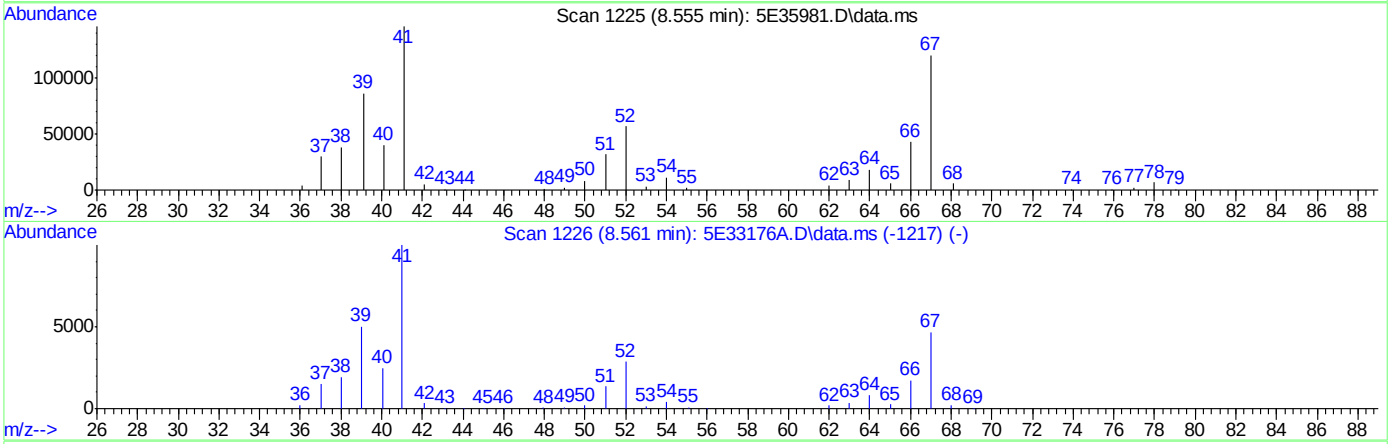
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methacrylonitrile	126-98-7		8.55	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35981.D
Acq On : 8 Dec 2022 12:19 pm
Operator : courtnef
Sample : IC1617-4
Misc : MS52751,V5E1617,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 08 13:46:59 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration





TIC: 5E35981.D\data.ms

(46) Methacrylonitrile

8.555min (-0.000) 233.06ug/L

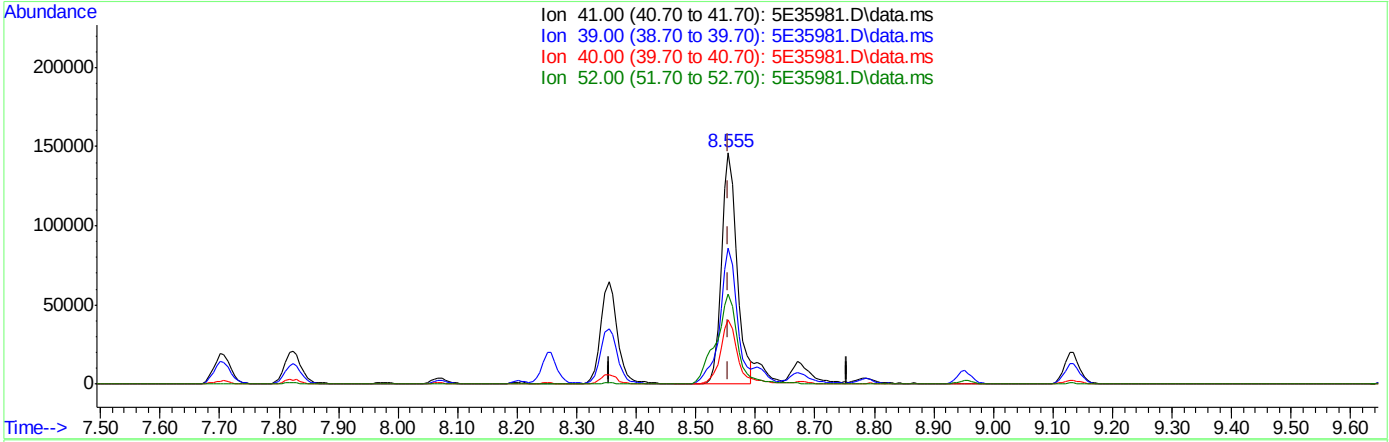
response 284812

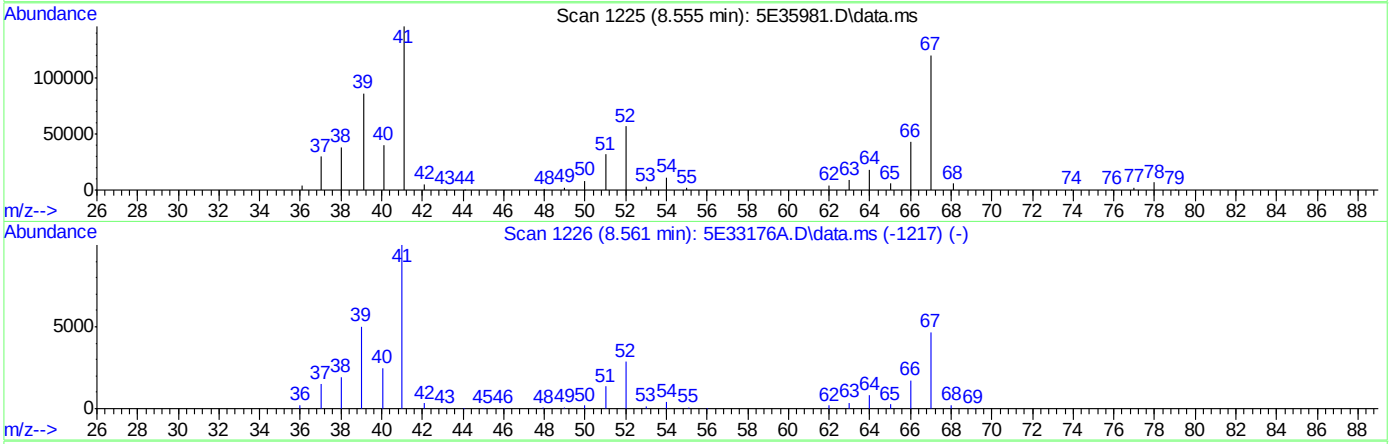
Ion	Exp%	Act%
41.00	100	100
39.00	58.40	58.78
40.00	26.50	27.69
52.00	33.80	38.50

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35981.D
Acq On : 8 Dec 2022 12:19 pm
Operator : courtnef
Sample : IC1617-4
Misc : MS52751,V5E1617,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 08 13:46:59 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration





TIC: 5E35981.D\data.ms

(46) Methacrylonitrile

8.555min (-0.000) 213.89ug/L m

response 261394

Ion	Exp%	Act%
41.00	100	100
39.00	58.40	58.92
40.00	26.50	27.69
52.00	33.80	38.76

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
12/09/22 10:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35982.D
Acq On : 8 Dec 2022 12:42 pm
Operator : courtnef
Sample : ICC1617-5
Misc : MS52751,V5E1617,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 08 13:54:21 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.951	96	367847	50.00	ug/L		0.00
61) Chlorobenzene-d5	12.109	117	264640	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	129127	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	8.079	113	101237	47.50	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.00%				
49) 1,2-Dichloroethane-d4	8.665	65	117582	54.56	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.12%				
62) Toluene-d8	10.542	98	355837	53.46	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.92%				
86) 4-Bromofluorobenzene	13.328	95	105053	51.38	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.76%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.855	85	84203	43.36	ug/L		96
3) Chloromethane	3.221	50	83608	43.28	ug/L		96
4) Vinyl Chloride	3.373	62	89412	43.42	ug/L		98
5) 1,3-Butadiene	3.404	39	54463	32.98	ug/L		82
6) Bromomethane	3.946	94	48326	45.25	ug/L		92
7) Chloroethane	4.153	64	74963	42.15	ug/L		99
8) Trichlorofluoromethane	4.385	101	109209	36.77	ug/L		94
9) Ethyl Ether	4.873	59	67132	43.32	ug/L		93
10) Ethanol	5.098	45	9792	470.80	ug/L		92
11) 1,2-Dichlorotrifluoroe...	5.153	67	93874	44.04	ug/L		89
12) 1,1-Dichloroethene	5.159	61	118642	47.89	ug/L		92
13) Freon 113	5.220	101	77057	37.57	ug/L		92
14) Carbon Disulfide	5.208	76	212896	35.77	ug/L		93
15) Iodomethane	5.367	142	113009	51.60	ug/L		95
16) Acrolein	5.629	56	76274	193.88	ug/L		99
17) Allyl chloride	5.818	41	78262	33.96	ug/L		94
18) Methylene Chloride	5.958	49	105856	41.64	ug/L		90
19) Acetone	6.019	43	106657	176.68	ug/L		99
20) Methyl acetate	6.171	43	243863	188.66	ug/L		99
21) trans-1,2-Dichloroethene	6.171	61	109542	45.93	ug/L		93
22) Hexane	6.263	56	68915	51.83	ug/L	#	85
23) Methyl Tert Butyl Ether	6.293	73	222844	39.28	ug/L		96
24) Acetonitrile	6.616	41	71347	335.15	ug/L		97
25) Di-isopropyl ether	6.757	45	212929	40.26	ug/L		98
26) Chloroprene	6.909	53	94854	37.65	ug/L		95
27) 1,1-Dichloroethane	6.939	63	145964	45.46	ug/L		96
28) Acrylonitrile	7.000	53	141107	205.64	ug/L		99
29) ETBE	7.195	59	247901	43.16	ug/L		98
30) Tert Butyl Alcohol	6.397	59	111905	383.35	ug/L		97
31) Vinyl acetate	7.214	43	732361	181.32	ug/L		96
32) cis-1,2-Dichloroethene	7.580	96	80932	38.00	ug/L		88
33) 2,2-Dichloropropane	7.701	77	116571	40.38	ug/L		95
34) Bromochloromethane	7.811	128	40933	37.79	ug/L		87
35) Cyclohexane	7.823	56	125501	46.25	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35982.D
Acq On : 8 Dec 2022 12:42 pm
Operator : courtnef
Sample : ICC1617-5
Misc : MS52751,V5E1617,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 08 13:54:21 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	7.872	83	141359	40.96	ug/L		96
37) Ethyl acetate	7.976	43	365869	190.35	ug/L		98
38) Tetrahydrofuran	8.067	42	20789	36.14	ug/L		96
40) Carbon Tetrachloride	8.049	117	104020	39.34	ug/L		99
41) 1,1,1-Trichloroethane	8.122	97	118637	38.84	ug/L		94
42) 2-Butanone	8.201	43	172145	196.96	ug/L		99
43) 1,1-Dichloropropene	8.256	75	106016	42.48	ug/L		96
44) tert-Butyl formate	8.354	59	321804	480.13	ug/L		97
45) Propionitrile	8.537	54	129519	433.99	ug/L		93
46) Methacrylonitrile	8.555	41	438397m	339.58	ug/L		
47) Benzene	8.524	78	303234	40.98	ug/L		99
48) TAME	8.604	73	224667	40.38	ug/L		98
50) 1,2-Dichloroethane	8.738	62	116861	44.62	ug/L		96
51) tert Amyl alcohol	8.787	59	79729	416.25	ug/L		95
52) Trichloroethene	9.134	95	81900	39.13	ug/L		93
53) Methylcyclohexane	9.134	83	129690	40.22	ug/L		94
54) Dibromomethane	9.579	93	55294	38.50	ug/L		94
55) 1,2-Dichloropropane	9.671	63	84253	46.30	ug/L		95
56) Bromodichloromethane	9.725	83	107595	39.15	ug/L		98
57) Methyl methacrylate	9.835	41	62014	37.48	ug/L		95
58) 1,4-Dioxane	9.921	88	15001	662.64	ug/L		94
59) 2-Chloroethyl vinyl ether	10.256	63	251001	1164.10	ug/L		95
60) cis-1,3-Dichloropropene	10.353	75	121155	40.45	ug/L		99
63) Toluene	10.597	91	316072	41.31	ug/L		99
64) Isobutyl alcohol	8.677	43	60715	748.69	ug/L		95
65) 2-Nitropropane	10.829	41	118651	202.47	ug/L		99
66) 4-Methyl-2-pentanone	10.939	43	397483	214.19	ug/L		95
67) trans-1,3-Dichloropropene	11.000	75	108483	44.23	ug/L		93
68) Tetrachloroethene	11.000	166	79439	38.05	ug/L		95
69) Ethyl methacrylate	11.103	69	99295	40.17	ug/L		94
70) 1,1,2-Trichloroethane	11.164	83	63623	42.67	ug/L		91
71) Dibromochloromethane	11.359	129	86502	38.28	ug/L		98
72) 1,3-Dichloropropane	11.451	76	125524	43.59	ug/L		97
73) 1,2-Dibromoethane	11.621	107	79692	40.31	ug/L		100
74) 3,3-Dimethyl-1-butanol	11.707	57	402798	2217.88	ug/L		94
75) 2-hexanone	11.768	43	286166	218.90	ug/L		91
76) 1-Chlorohexane	12.060	91	109706	43.56	ug/L		95
77) Ethylbenzene	12.121	91	361875	41.13	ug/L		98
78) Chlorobenzene	12.127	112	212352	41.43	ug/L		95
79) 1,1,1,2-Tetrachloroethane	12.182	131	75816	39.12	ug/L		95
80) m,p-Xylene	12.262	91	551780	83.00	ug/L		99
81) o-Xylene	12.707	91	264919	40.80	ug/L		98
82) Styrene	12.755	104	208811	40.93	ug/L		97
83) Bromoform	12.816	173	52455	35.13	ug/L		95
84) Isopropylbenzene	13.005	105	341883	40.61	ug/L		98
87) cis-1,4-Dichloro-2-butene	13.676	53	26366	54.06	ug/L	#	74
88) n-Propylbenzene	13.426	91	428504	45.51	ug/L		96
89) Bromobenzene	13.456	156	84651	40.24	ug/L		91
90) 1,1,2,2-Tetrachloroethane	13.493	83	106749	44.55	ug/L		97
91) 1,3,5-Trimethylbenzene	13.609	105	285130	42.70	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35982.D
Acq On : 8 Dec 2022 12:42 pm
Operator : courtnef
Sample : ICC1617-5
Misc : MS52751,V5E1617,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 08 13:54:21 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

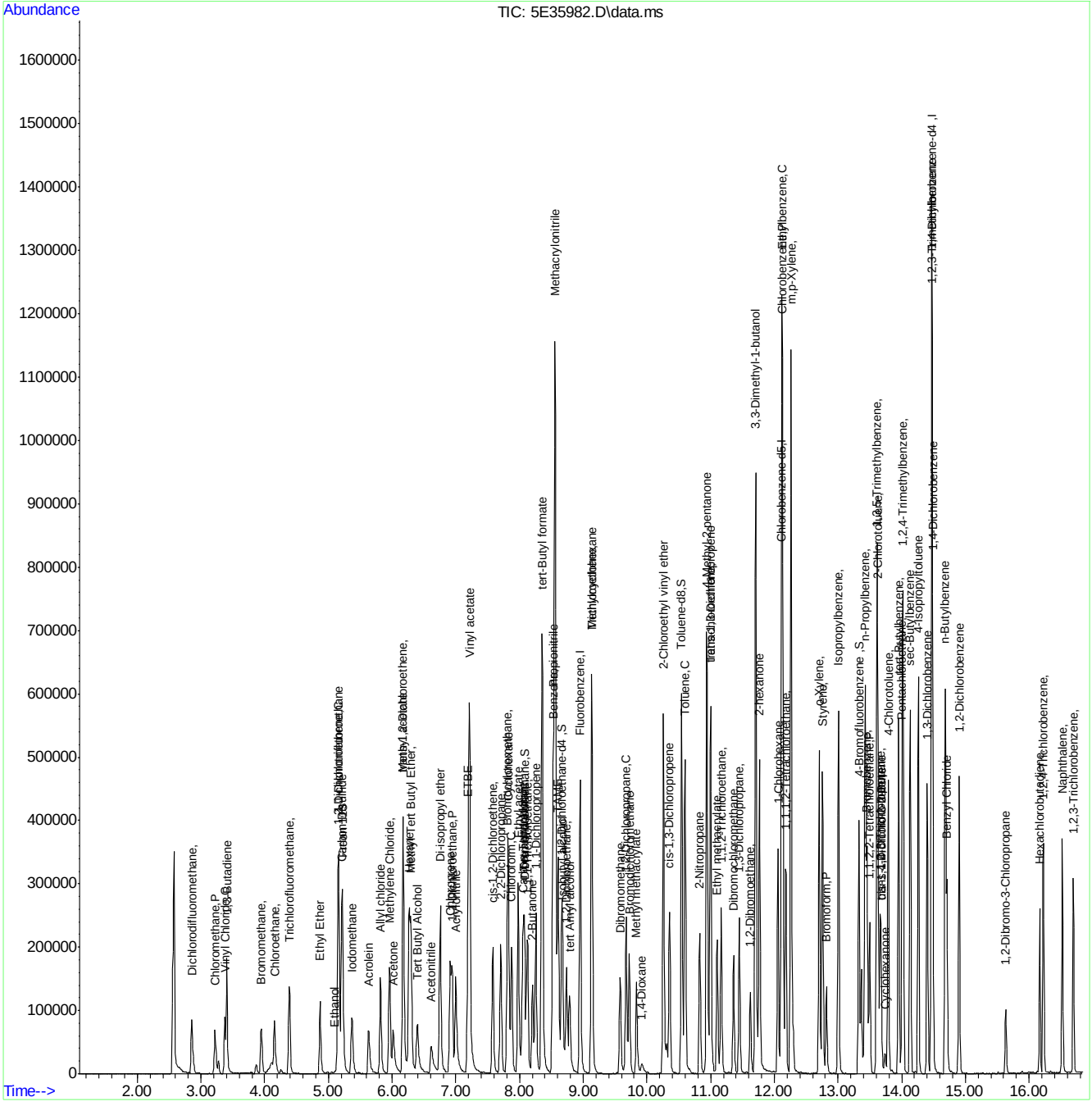
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 2-Chlorotoluene	13.621	91	259271	43.76	ug/L		99
93) trans-1,4-Dichloro-2-B...	13.676	53	26366	54.06	ug/L	#	76
94) 1,2,3-Trichloropropane	13.664	110	29350	42.17	ug/L		87
95) Cyclohexanone	13.737	55	13429	170.90	ug/L		93
96) 4-Chlorotoluene	13.792	91	229843	43.23	ug/L		98
98) tert-Butylbenzene	13.950	91	151181	42.53	ug/L		98
99) 1,2,4-Trimethylbenzene	14.017	105	280510	42.60	ug/L		96
100) Pentachloroethane	14.005	167	49260	38.15	ug/L		93
101) sec-Butylbenzene	14.133	105	350263	43.69	ug/L		98
102) 4-Isopropyltoluene	14.261	119	311187	43.90	ug/L		98
103) 1,3-Dichlorobenzene	14.401	146	156423	39.88	ug/L		95
104) 1,2,3-Trimethylbenzene	14.475	105	283029	41.65	ug/L		99
105) 1,4-Dichlorobenzene	14.487	146	167269	38.37	ug/L		96
106) n-Butylbenzene	14.682	92	170010	45.54	ug/L		96
107) Benzyl Chloride	14.712	126	36616	41.75	ug/L		93
108) 1,2-Dichlorobenzene	14.901	146	151068	39.58	ug/L		97
109) 1,2-Dibromo-3-Chloropr...	15.633	75	15991	39.01	ug/L		90
110) Hexachlorobutadiene	16.169	225	31671	41.30	ug/L		93
111) 1,2,4-Trichlorobenzene	16.224	180	85378	39.72	ug/L		94
112) Naphthalene	16.523	128	245052	39.53	ug/L		100
113) 1,2,3-Trichlorobenzene	16.694	180	72596	40.80	ug/L		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35982.D
Acq On : 8 Dec 2022 12:42 pm
Operator : courtnef
Sample : ICC1617-5
Misc : MS52751,V5E1617,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 08 13:54:21 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration



Manual Integration Approval Summary

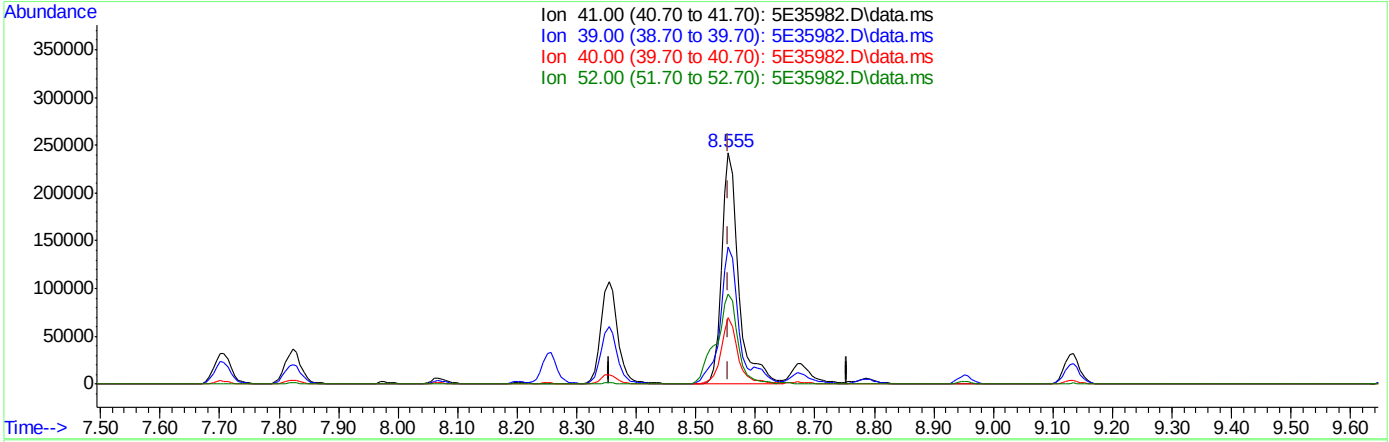
Sample Number:	V5E1617-ICC1617	**Method:**	SW846 8260D
Lab FileID:	5E35982.D	**Analyst approved:**	12/08/22 16:36 Courtney Failla
Injection Time:	12/08/22 12:42	**Supervisor approved:**	12/09/22 10:44 Karen Watson

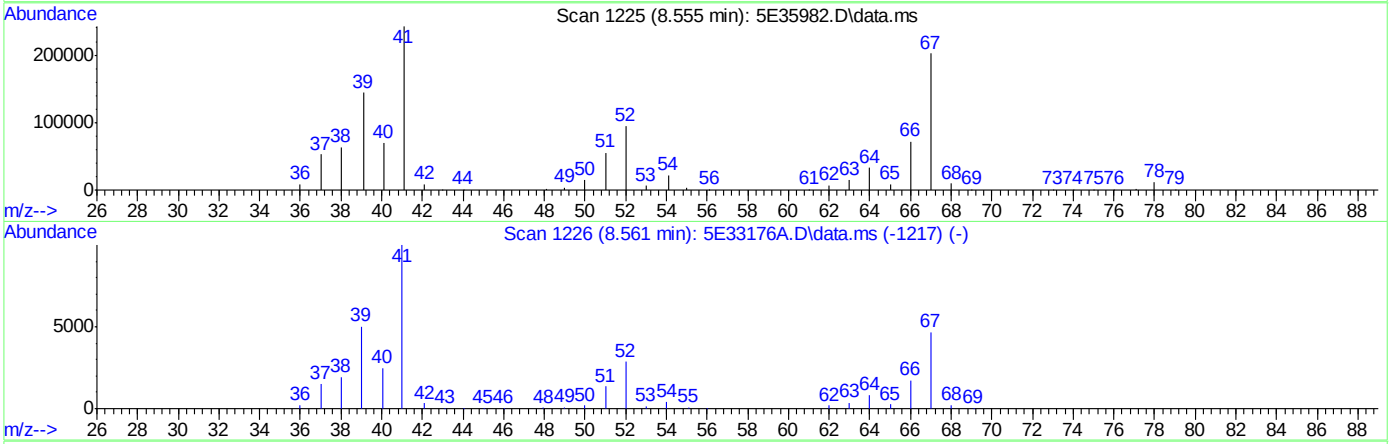
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methacrylonitrile	126-98-7		8.55	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35982.D
Acq On : 8 Dec 2022 12:42 pm
Operator : courtnef
Sample : ICC1617-5
Misc : MS52751,V5E1617,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 08 13:47:01 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration





TIC: 5E35982.D\data.ms

(46) Methacrylonitrile

8.555min (-0.000) 369.66ug/L

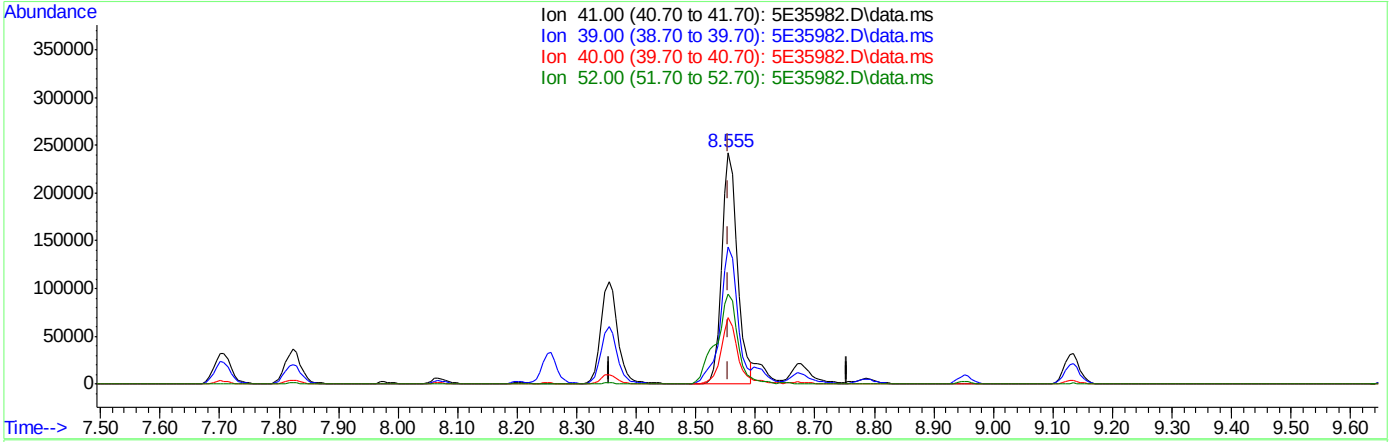
response 477228

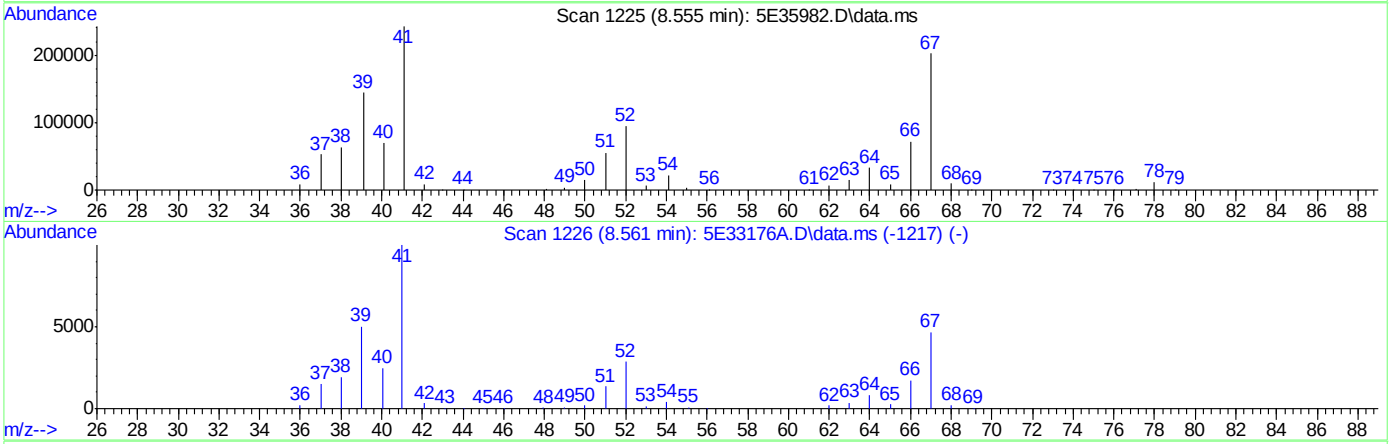
Ion	Exp%	Act%
41.00	100	100
39.00	58.40	59.10
40.00	26.50	28.46
52.00	33.80	38.83

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35982.D
Acq On : 8 Dec 2022 12:42 pm
Operator : courtnef
Sample : ICC1617-5
Misc : MS52751,V5E1617,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 08 13:47:01 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration





TIC: 5E35982.D\data.ms

(46) Methacrylonitrile

8.555min (-0.000) 339.58ug/L m

response 438397

Ion	Exp%	Act%
41.00	100	100
39.00	58.40	59.39
40.00	26.50	28.55
52.00	33.80	39.11

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
12/09/22 10:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35983.D
Acq On : 8 Dec 2022 1:05 pm
Operator : courtnef
Sample : IC1617-6
Misc : MS52751,V5E1617,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 08 13:55:50 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	375819	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.115	117	270880	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	134063	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.079	113	104555	48.02	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.04%			
49) 1,2-Dichloroethane-d4	8.665	65	119811	54.41	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.82%			
62) Toluene-d8	10.542	98	367537	53.94	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 107.88%			
86) 4-Bromofluorobenzene	13.328	95	109372	51.52	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.04%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.855	85	166369	83.86	ug/L	97
3) Chloromethane	3.221	50	155783	78.93	ug/L	97
4) Vinyl Chloride	3.373	62	166967	79.36	ug/L	98
5) 1,3-Butadiene	3.403	39	109327	69.10	ug/L	90
6) Bromomethane	3.946	94	96637	81.38	ug/L	94
7) Chloroethane	4.153	64	238075	106.65	ug/L	98
8) Trichlorofluoromethane	4.379	101	207774	68.47	ug/L	99
9) Ethyl Ether	4.873	59	126132	79.67	ug/L	94
10) Ethanol	5.104	45	24361	1146.42	ug/L	95
11) 1,2-Dichlorotrifluoroe...	5.153	67	183768	84.38	ug/L	88
12) 1,1-Dichloroethene	5.159	61	225155	88.96	ug/L	94
13) Freon 113	5.220	101	155054	74.77	ug/L	92
14) Carbon Disulfide	5.208	76	404900	66.59	ug/L	94
15) Iodomethane	5.366	142	206093	86.69	ug/L	97
16) Acrolein	5.629	56	141403	351.80	ug/L	93
17) Allyl chloride	5.818	41	148830	63.21	ug/L	93
18) Methylene Chloride	5.958	49	188989	74.21	ug/L	94
19) Acetone	6.019	43	195204	316.51	ug/L	100
20) Methyl acetate	6.171	43	448238	339.41	ug/L	100
21) trans-1,2-Dichloroethene	6.171	61	210233	86.27	ug/L	93
22) Hexane	6.263	56	116992m	86.12	ug/L	
23) Methyl Tert Butyl Ether	6.293	73	420050	72.47	ug/L	98
24) Acetonitrile	6.616	41	133539	591.28	ug/L	99
25) Di-isopropyl ether	6.756	45	394796	73.06	ug/L	98
26) Chloroprene	6.909	53	182982	71.08	ug/L	96
27) 1,1-Dichloroethane	6.939	63	273098	83.24	ug/L	99
28) Acrylonitrile	6.994	53	263114	375.31	ug/L	98
29) ETBE	7.195	59	465667	79.35	ug/L	97
30) Tert Butyl Alcohol	6.397	59	200755	673.13	ug/L	97
31) Vinyl acetate	7.214	43	1411887	342.14	ug/L	97
32) cis-1,2-Dichloroethene	7.579	96	153267	70.44	ug/L	88
33) 2,2-Dichloropropane	7.707	77	220116	74.63	ug/L	96
34) Bromochloromethane	7.811	128	75124	67.89	ug/L	88
35) Cyclohexane	7.823	56	254556	91.83	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35983.D
Acq On : 8 Dec 2022 1:05 pm
Operator : courtnef
Sample : IC1617-6
Misc : MS52751,V5E1617,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 08 13:55:50 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	7.872	83	262998	74.60	ug/L		97
37) Ethyl acetate	7.976	43	678434	345.48	ug/L		99
38) Tetrahydrofuran	8.067	42	39387	66.48	ug/L		95
40) Carbon Tetrachloride	8.049	117	202408	74.92	ug/L		98
41) 1,1,1-Trichloroethane	8.122	97	224510	71.94	ug/L		93
42) 2-Butanone	8.201	43	320516	358.95	ug/L		99
43) 1,1-Dichloropropene	8.256	75	202488	79.41	ug/L		98
44) tert-Butyl formate	8.354	59	618874	816.91	ug/L		98
45) Propionitrile	8.537	54	240126	787.54	ug/L		94
46) Methacrylonitrile	8.555	41	828107m	627.85	ug/L		
47) Benzene	8.524	78	565061	74.75	ug/L		99
48) TAME	8.604	73	425237	74.81	ug/L		99
50) 1,2-Dichloroethane	8.738	62	216945	81.08	ug/L		97
51) tert Amyl alcohol	8.787	59	145211	702.30	ug/L		94
52) Trichloroethene	9.134	95	154519	72.27	ug/L		95
53) Methylcyclohexane	9.134	83	266646	80.73	ug/L		96
54) Dibromomethane	9.579	93	102987	70.18	ug/L		91
55) 1,2-Dichloropropane	9.671	63	158302	85.15	ug/L		96
56) Bromodichloromethane	9.719	83	199443	71.03	ug/L		97
57) Methyl methacrylate	9.835	41	115875	66.85	ug/L		97
58) 1,4-Dioxane	9.920	88	26733	1119.40	ug/L		92
59) 2-Chloroethyl vinyl ether	10.256	63	468718	2127.72	ug/L		95
60) cis-1,3-Dichloropropene	10.353	75	230499	75.33	ug/L		98
63) Toluene	10.597	91	595816	76.09	ug/L		98
64) Isobutyl alcohol	8.677	43	113920	1310.91	ug/L		96
65) 2-Nitropropane	10.829	41	224214	373.78	ug/L		99
66) 4-Methyl-2-pentanone	10.939	43	755809	397.89	ug/L		97
67) trans-1,3-Dichloropropene	11.000	75	205106	81.70	ug/L		92
68) Tetrachloroethene	11.000	166	150609	70.47	ug/L		96
69) Ethyl methacrylate	11.103	69	187743	74.20	ug/L		96
70) 1,1,2-Trichloroethane	11.164	83	115785	75.87	ug/L		93
71) Dibromochloromethane	11.359	129	160133	69.23	ug/L		97
72) 1,3-Dichloropropane	11.451	76	232658	78.93	ug/L		97
73) 1,2-Dibromoethane	11.621	107	146713	72.51	ug/L		99
74) 3,3-Dimethyl-1-butanol	11.707	57	760751	3744.29	ug/L		95
75) 2-hexanone	11.768	43	525156	392.45	ug/L		92
76) 1-Chlorohexane	12.060	91	209762	81.38	ug/L		95
77) Ethylbenzene	12.121	91	679943	75.51	ug/L		97
78) Chlorobenzene	12.127	112	397964	75.85	ug/L		92
79) 1,1,1,2-Tetrachloroethane	12.182	131	141165	71.17	ug/L		97
80) m,p-Xylene	12.261	91	1036590	152.33	ug/L		99
81) o-Xylene	12.707	91	495475	74.55	ug/L		99
82) Styrene	12.755	104	394350	75.51	ug/L		97
83) Bromoform	12.816	173	100543	65.79	ug/L		95
84) Isopropylbenzene	13.005	105	642478	74.55	ug/L		98
87) cis-1,4-Dichloro-2-butene	13.676	53	47865	88.26	ug/L	#	71
88) n-Propylbenzene	13.426	91	800860	81.93	ug/L		98
89) Bromobenzene	13.456	156	154852	70.90	ug/L		87
90) 1,1,2,2-Tetrachloroethane	13.493	83	194842	78.32	ug/L		99
91) 1,3,5-Trimethylbenzene	13.609	105	544293	78.52	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35983.D
Acq On : 8 Dec 2022 1:05 pm
Operator : courtnef
Sample : IC1617-6
Misc : MS52751,V5E1617,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 08 13:55:50 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

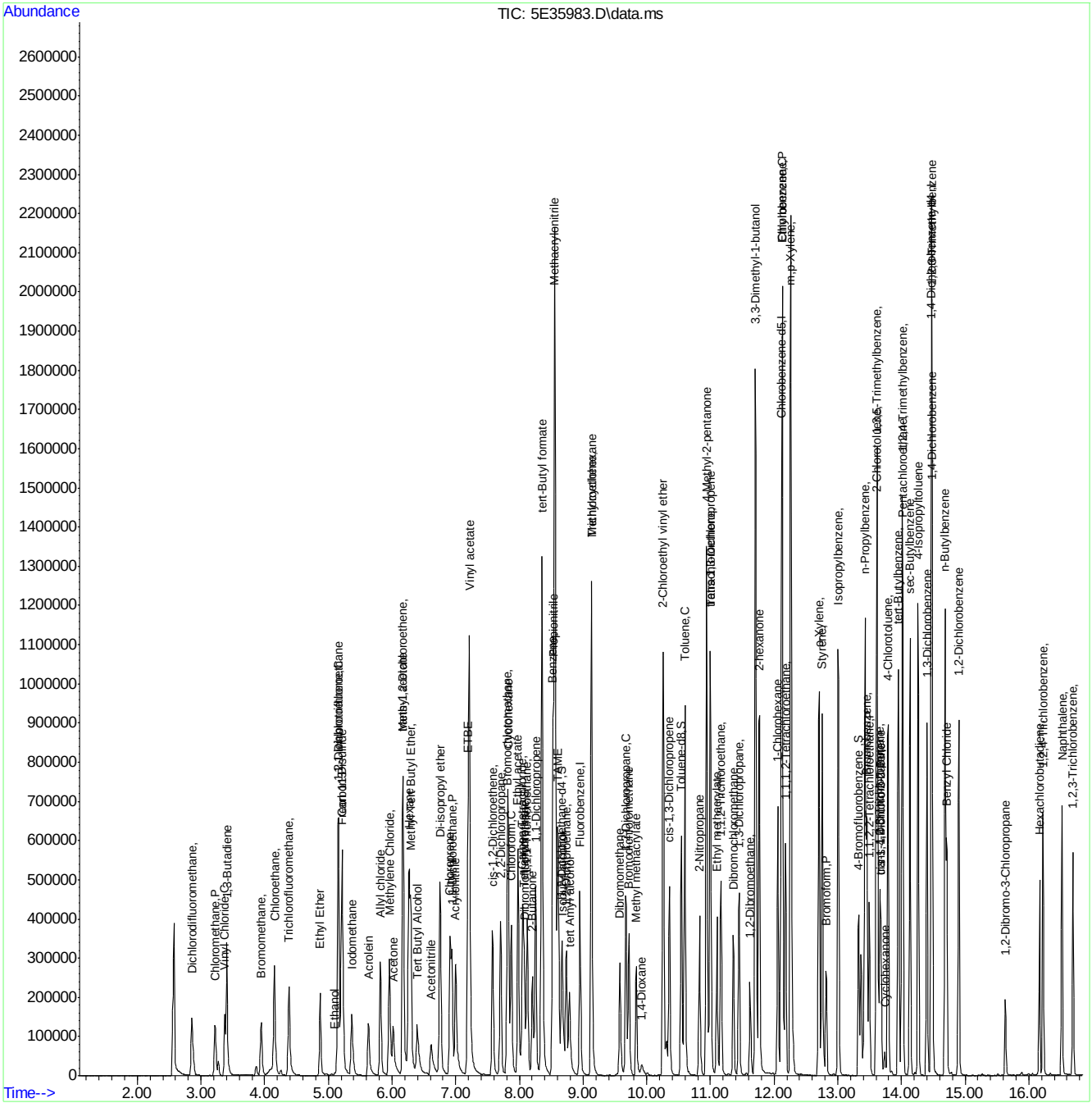
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	13.621	91	485790	78.98	ug/L		99
93)	trans-1,4-Dichloro-2-B...	13.676	53	47865	88.26	ug/L	#	73
94)	1,2,3-Trichloropropane	13.664	110	55259	76.47	ug/L		87
95)	Cyclohexanone	13.737	55	24482	300.09	ug/L		95
96)	4-Chlorotoluene	13.792	91	433982	78.63	ug/L		98
98)	tert-Butylbenzene	13.950	91	284386	77.05	ug/L		98
99)	1,2,4-Trimethylbenzene	14.017	105	534051	78.12	ug/L		98
100)	Pentachloroethane	14.011	167	92180	68.76	ug/L	#	84
101)	sec-Butylbenzene	14.133	105	665105	79.91	ug/L		99
102)	4-Isopropyltoluene	14.261	119	592775	80.55	ug/L		98
103)	1,3-Dichlorobenzene	14.401	146	296273	72.75	ug/L		96
104)	1,2,3-Trimethylbenzene	14.474	105	530133	75.14	ug/L		99
105)	1,4-Dichlorobenzene	14.487	146	320857	70.90	ug/L		96
106)	n-Butylbenzene	14.682	92	323529	83.47	ug/L		96
107)	Benzyl Chloride	14.712	126	73075	74.95	ug/L		96
108)	1,2-Dichlorobenzene	14.901	146	280861	70.88	ug/L		96
109)	1,2-Dibromo-3-Chloropr...	15.633	75	30000	68.90	ug/L		94
110)	Hexachlorobutadiene	16.169	225	58351	73.29	ug/L		97
111)	1,2,4-Trichlorobenzene	16.224	180	158282	70.92	ug/L		95
112)	Naphthalene	16.523	128	450609	70.01	ug/L		100
113)	1,2,3-Trichlorobenzene	16.694	180	133369	72.20	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35983.D
Acq On : 8 Dec 2022 1:05 pm
Operator : courtnef
Sample : IC1617-6
Misc : MS52751,V5E1617,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 08 13:55:50 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration



Manual Integration Approval Summary

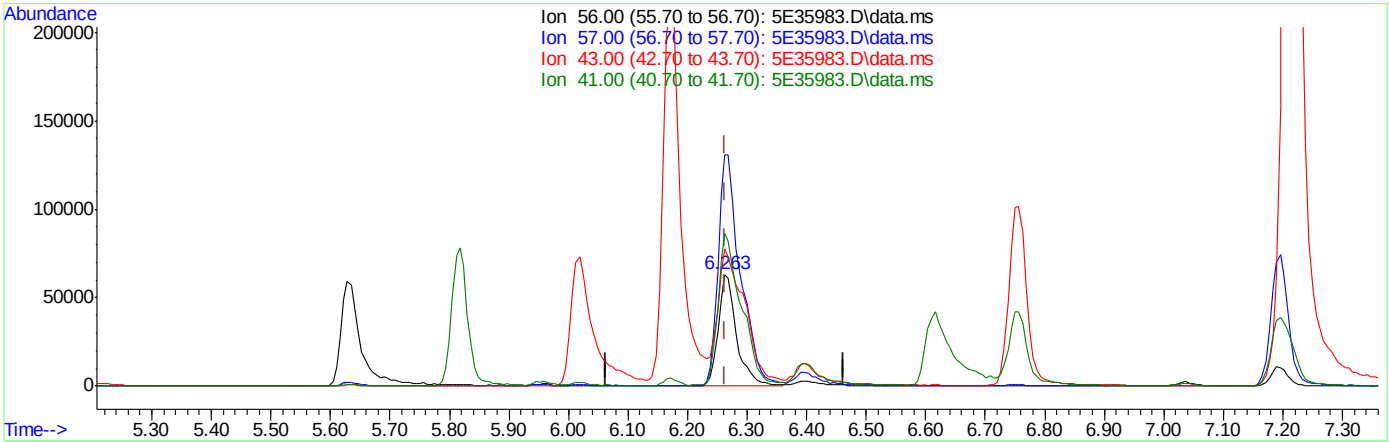
Sample Number:	V5E1617-IC1617	**Method:**	SW846 8260D
Lab FileID:	5E35983.D	**Analyst approved:**	12/08/22 16:36 Courtney Failla
Injection Time:	12/08/22 13:05	**Supervisor approved:**	12/09/22 10:44 Karen Watson

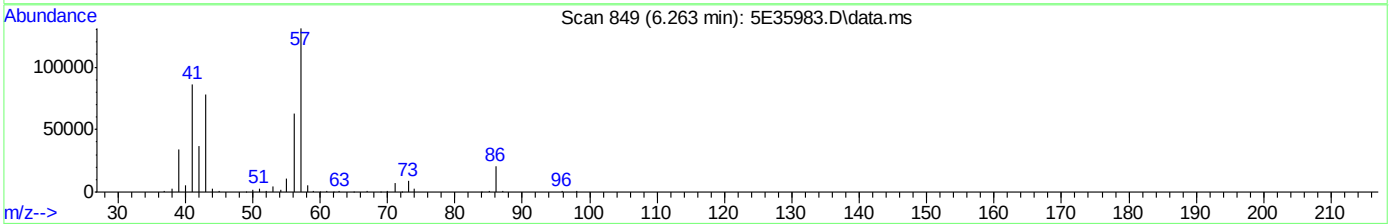
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		6.26	Overlapping peak
Methacrylonitrile	126-98-7		8.55	Overlapping peak

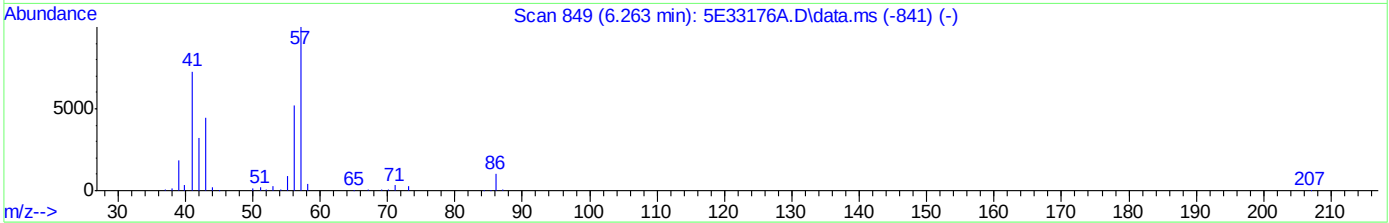
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35983.D
Acq On : 8 Dec 2022 1:05 pm
Operator : courtnef
Sample : IC1617-6
Misc : MS52751,V5E1617,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 08 13:47:03 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration







TIC: 5E35983.D\data.ms

(22) Hexane

6.263min (-0.000) 99.51ug/L

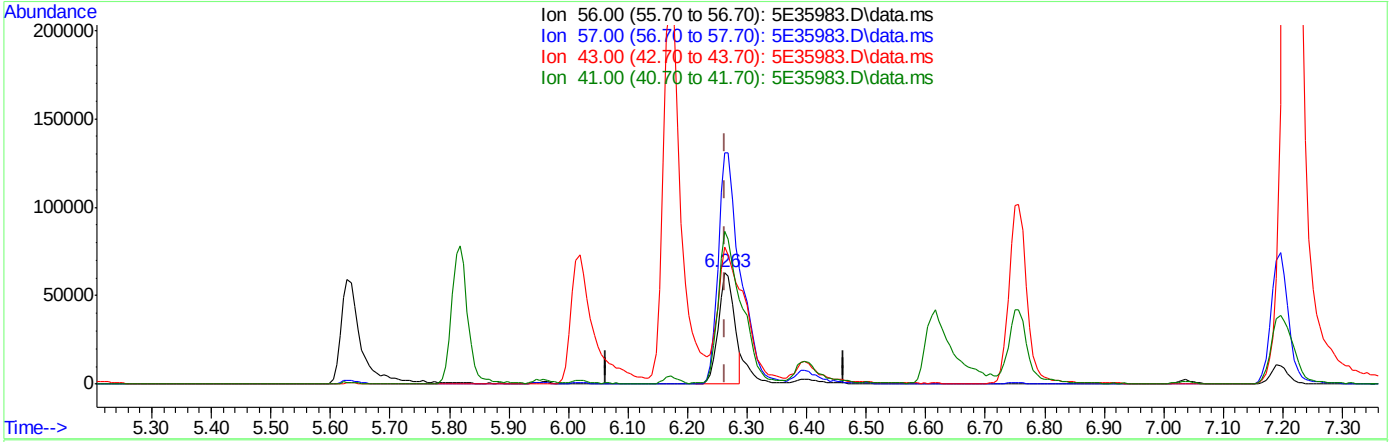
response 135181

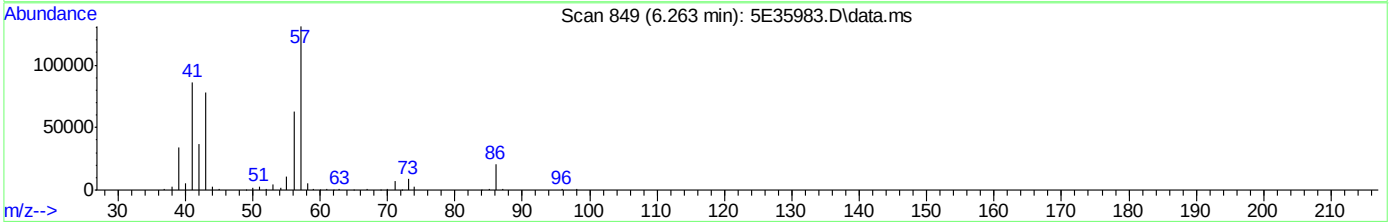
Ion	Exp%	Act%
56.00	100	100
57.00	202.40	207.14
43.00	128.00	116.98
41.00	148.90	135.42

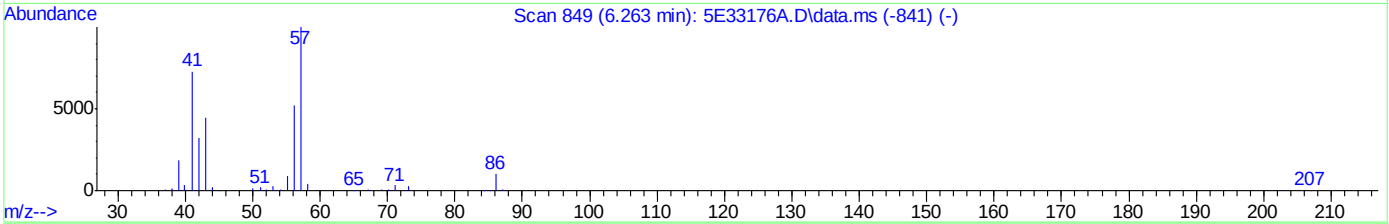
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35983.D
Acq On : 8 Dec 2022 1:05 pm
Operator : courtnef
Sample : IC1617-6
Misc : MS52751,V5E1617,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 08 13:47:03 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration







TIC: 5E35983.D\data.ms

(22) Hexane

6.263min (-0.000) 86.12ug/L m

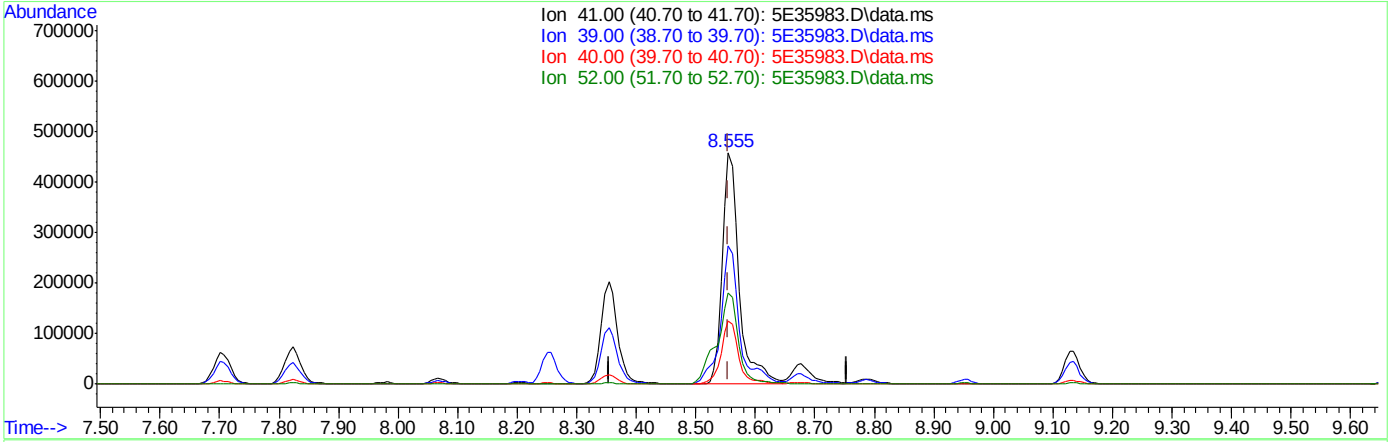
response 116992

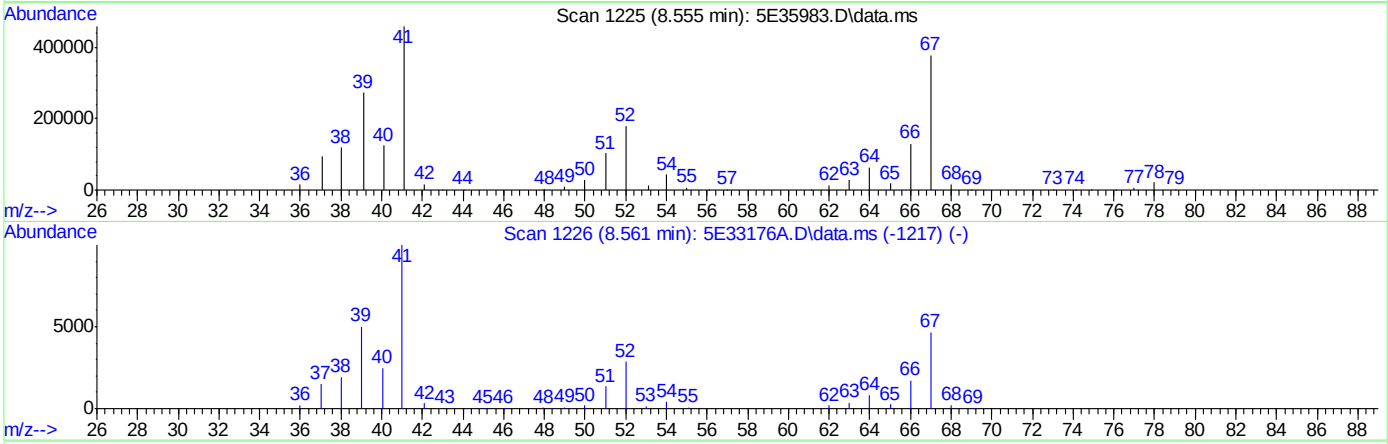
Ion	Exp%	Act%
56.00	100	100
57.00	202.40	207.14
43.00	128.00	122.79
41.00	148.90	136.36

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35983.D
Acq On : 8 Dec 2022 1:05 pm
Operator : courtnef
Sample : IC1617-6
Misc : MS52751,V5E1617,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 08 13:47:03 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration





TIC: 5E35983.D\data.ms

(46) Methacrylonitrile

8.555min (-0.000) 683.39ug/L

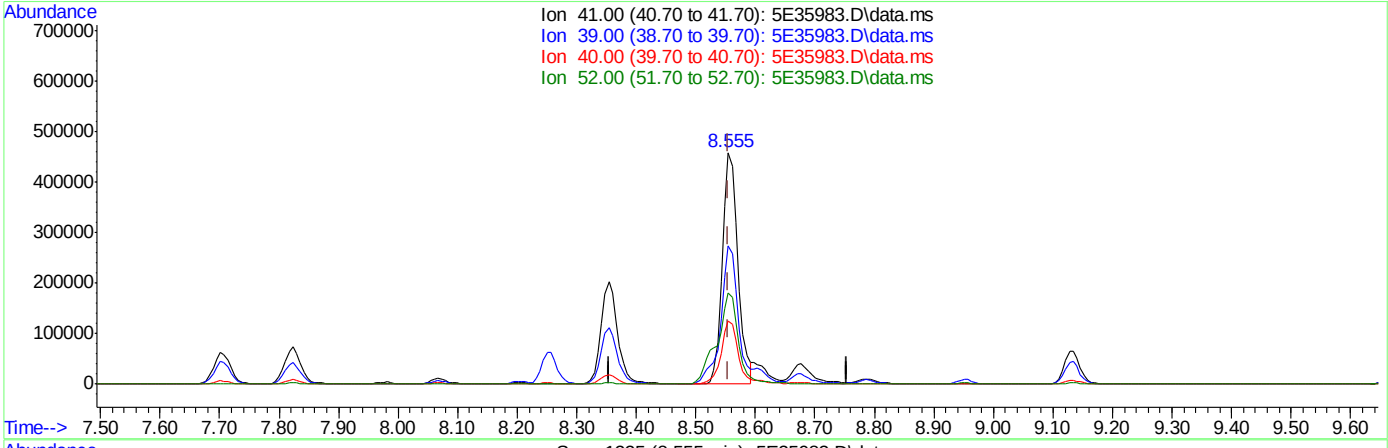
response 901372

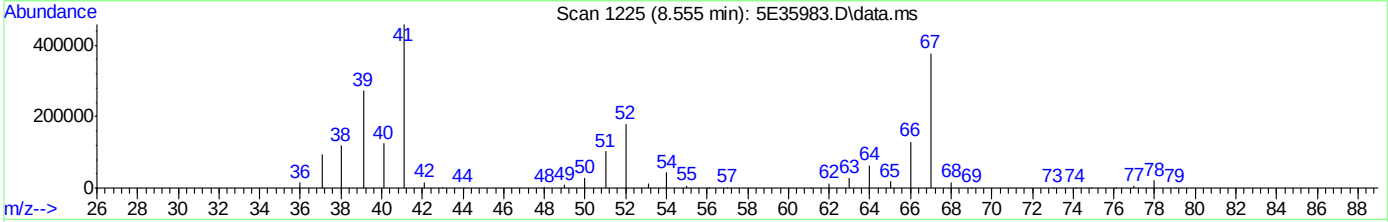
Ion	Exp%	Act%
41.00	100	100
39.00	58.40	59.41
40.00	26.50	27.30
52.00	33.80	39.13

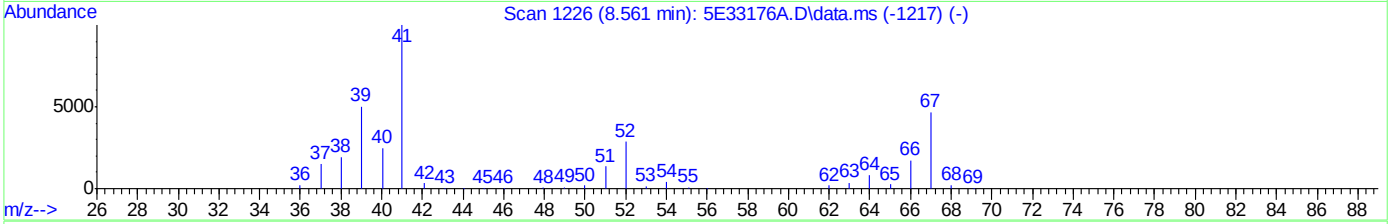
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35983.D
Acq On : 8 Dec 2022 1:05 pm
Operator : courtnef
Sample : IC1617-6
Misc : MS52751,V5E1617,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 08 13:47:03 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration







TIC: 5E35983.D\data.ms

(46) Methacrylonitrile

8.555min (-0.000) 627.85ug/L m

response 828107

Ion	Exp%	Act%
41.00	100	100
39.00	58.40	59.58
40.00	26.50	27.30
52.00	33.80	39.38

5E35984.D

Manual Integrations APPROVED (compounds with "m" flag)

Karen Watson
12/09/22 10:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35984.D
Acq On : 8 Dec 2022 2:00 pm
Operator : courtnef
Sample : IC1617-7
Misc : MS52751,V5E1617,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 08 14:33:53 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	387978	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.115	117	284780	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	143535	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.079	113	109101	48.53	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.06%			
49) 1,2-Dichloroethane-d4	8.665	65	124668	54.84	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.68%			
62) Toluene-d8	10.542	98	377649	52.72	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.44%			
86) 4-Bromofluorobenzene	13.328	95	114169	50.23	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.46%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.849	85	234367	114.43	ug/L	99
3) Chloromethane	3.220	50	241651	118.59	ug/L	96
4) Vinyl Chloride	3.373	62	252472	116.24	ug/L	100
5) 1,3-Butadiene	3.409	39	135848	85.80	ug/L	86
6) Bromomethane	3.940	94	150504	114.31	ug/L	94
7) Chloroethane	4.147	64	406821	154.94	ug/L	97
8) Trichlorofluoromethane	4.373	101	299571	95.62	ug/L	97
9) Ethyl Ether	4.873	59	173957	106.44	ug/L	94
10) Ethanol	5.110	45	40409	1842.04	ug/L	87
11) 1,2-Dichlorotrifluoroe...	5.153	67	247749	110.19	ug/L	90
12) 1,1-Dichloroethene	5.159	61	307103	117.53	ug/L	93
13) Freon 113	5.214	101	198538	93.22	ug/L	92
14) Carbon Disulfide	5.208	76	551617	87.87	ug/L	94
15) Iodomethane	5.366	142	296489	115.28	ug/L	95
16) Acrolein	5.629	56	189800	457.41	ug/L	98
17) Allyl chloride	5.811	41	207251	85.26	ug/L	98
18) Methylene Chloride	5.958	49	257677	99.55	ug/L	95
19) Acetone	6.019	43	269824	423.79	ug/L	97
20) Methyl acetate	6.171	43	618582	453.72	ug/L	100
21) trans-1,2-Dichloroethene	6.171	61	292890	116.43	ug/L	92
22) Hexane	6.263	56	171624	122.38	ug/L	90
23) Methyl Tert Butyl Ether	6.293	73	573828	95.90	ug/L	97
24) Acetonitrile	6.616	41	197020	818.20	ug/L	98
25) Di-isopropyl ether	6.756	45	548642	98.35	ug/L	96
26) Chloroprene	6.909	53	250137	94.12	ug/L	93
27) 1,1-Dichloroethane	6.939	63	377899	111.58	ug/L	98
28) Acrylonitrile	7.000	53	380056	525.13	ug/L	98
29) ETBE	7.195	59	655116	108.13	ug/L	95
30) Tert Butyl Alcohol	6.403	59	251200	815.88	ug/L	95
31) Vinyl acetate	7.214	43	2080273	488.31	ug/L	97
32) cis-1,2-Dichloroethene	7.579	96	210026	93.50	ug/L	87
33) 2,2-Dichloropropane	7.701	77	302753	99.43	ug/L	98
34) Bromochloromethane	7.811	128	100656	88.11	ug/L	86
35) Cyclohexane	7.823	56	328592	114.82	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35984.D
Acq On : 8 Dec 2022 2:00 pm
Operator : courtnef
Sample : IC1617-7
Misc : MS52751,V5E1617,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 08 14:33:53 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Chloroform	7.872	83	360140	98.95	ug/L	98
37) Ethyl acetate	7.976	43	935344	461.38	ug/L	98
38) Tetrahydrofuran	8.061	42	50099	81.58	ug/L	94
40) Carbon Tetrachloride	8.049	117	270394	96.95	ug/L	98
41) 1,1,1-Trichloroethane	8.122	97	304721	94.58	ug/L	93
42) 2-Butanone	8.201	43	416875	452.23	ug/L	98
43) 1,1-Dichloropropene	8.250	75	276911	105.20	ug/L	97
44) tert-Butyl formate	8.354	59	828646	1005.44	ug/L	97
45) Propionitrile	8.537	54	323202	1026.79	ug/L	97
46) Methacrylonitrile	8.555	41	1148782m	843.68	ug/L	
47) Benzene	8.524	78	777473	99.62	ug/L	99
48) TAME	8.604	73	582481	99.26	ug/L	98
50) 1,2-Dichloroethane	8.738	62	295204	106.88	ug/L	98
51) tert Amyl alcohol	8.786	59	179912	824.07	ug/L	95
52) Trichloroethene	9.128	95	215292	97.53	ug/L	90
53) Methylcyclohexane	9.134	83	335823	98.37	ug/L	95
54) Dibromomethane	9.579	93	142101	93.80	ug/L	92
55) 1,2-Dichloropropane	9.670	63	216199	112.65	ug/L	96
56) Bromodichloromethane	9.719	83	274647	94.75	ug/L	98
57) Methyl methacrylate	9.835	41	154145	84.85	ug/L	97
58) 1,4-Dioxane	9.920	88	41884	1639.97	ug/L	92
59) 2-Chloroethyl vinyl ether	10.256	63	567028	2493.33	ug/L	96
60) cis-1,3-Dichloropropene	10.353	75	316778	100.28	ug/L	98
63) Toluene	10.597	91	811781	98.61	ug/L	98
64) Isobutyl alcohol	8.677	43	153668	1639.11	ug/L	98
65) 2-Nitropropane	10.829	41	292371	463.62	ug/L	96
66) 4-Methyl-2-pentanone	10.938	43	983114	492.29	ug/L	95
67) trans-1,3-Dichloropropene	10.999	75	286510	108.55	ug/L	96
68) Tetrachloroethene	10.999	166	208145	92.64	ug/L	94
69) Ethyl methacrylate	11.103	69	260929	98.10	ug/L	96
70) 1,1,2-Trichloroethane	11.164	83	157191	97.97	ug/L	94
71) Dibromochloromethane	11.359	129	223795	92.03	ug/L	100
72) 1,3-Dichloropropane	11.451	76	318133	102.66	ug/L	96
73) 1,2-Dibromoethane	11.621	107	199473	93.77	ug/L	99
74) 3,3-Dimethyl-1-butanol	11.707	57	982845	4431.58	ug/L	95
75) 2-hexanone	11.768	43	687776	488.89	ug/L	92
76) 1-Chlorohexane	12.060	91	276547	102.05	ug/L	94
77) Ethylbenzene	12.121	91	931139	98.36	ug/L	98
78) Chlorobenzene	12.127	112	549600	99.64	ug/L	94
79) 1,1,1,2-Tetrachloroethane	12.182	131	192894	92.50	ug/L	96
80) m,p-Xylene	12.261	91	1436384	200.78	ug/L	100
81) o-Xylene	12.706	91	682282	97.65	ug/L	99
82) Styrene	12.755	104	548215	99.85	ug/L	97
83) Bromoform	12.822	173	138721	86.34	ug/L	99
84) Isopropylbenzene	13.005	105	878710	96.99	ug/L	99
87) cis-1,4-Dichloro-2-butene	13.682	53	62887	104.91	ug/L	96
88) n-Propylbenzene	13.426	91	1089853	104.13	ug/L	99
89) Bromobenzene	13.456	156	217871	93.17	ug/L	87
90) 1,1,2,2-Tetrachloroethane	13.499	83	261197	98.07	ug/L	99
91) 1,3,5-Trimethylbenzene	13.609	105	755114	101.74	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35984.D
Acq On : 8 Dec 2022 2:00 pm
Operator : courtnef
Sample : IC1617-7
Misc : MS52751,V5E1617,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 08 14:33:53 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration

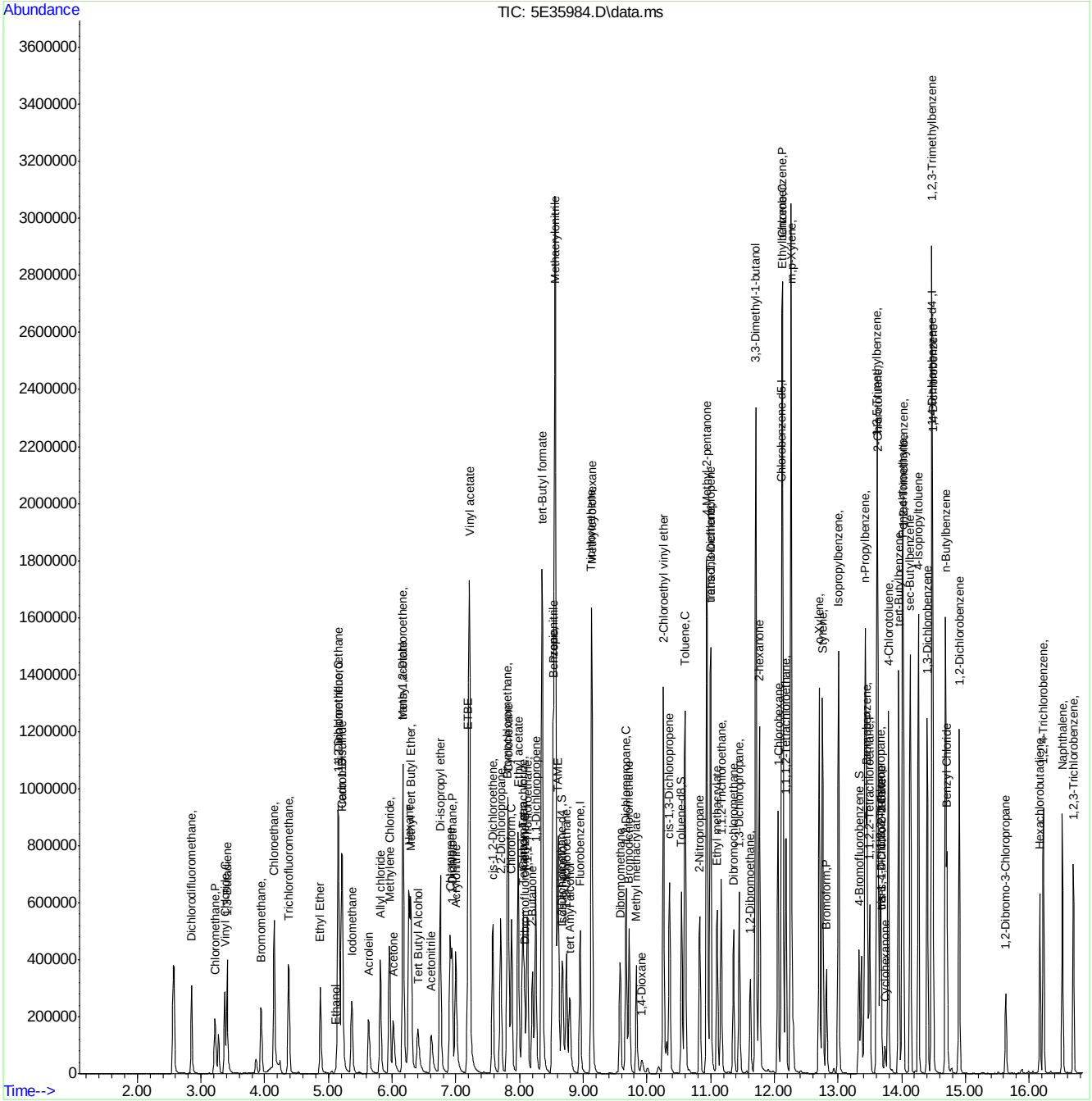
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 2-Chlorotoluene	13.621	91	680422	103.33	ug/L		98
93) trans-1,4-Dichloro-2-B...	13.682	53	62887	104.91	ug/L		97
94) 1,2,3-Trichloropropane	13.664	110	71797	92.80	ug/L		88
95) Cyclohexanone	13.737	55	38016	435.23	ug/L		94
96) 4-Chlorotoluene	13.792	91	604174	102.24	ug/L		99
98) tert-Butylbenzene	13.950	91	390617	98.85	ug/L		97
99) 1,2,4-Trimethylbenzene	14.023	105	733655	100.24	ug/L		97
100) Pentachloroethane	14.011	167	130358	90.81	ug/L		84
101) sec-Butylbenzene	14.133	105	895687	100.51	ug/L		98
102) 4-Isopropyltoluene	14.261	119	800209	101.56	ug/L		97
103) 1,3-Dichlorobenzene	14.401	146	409300	93.87	ug/L		97
104) 1,2,3-Trimethylbenzene	14.474	105	738466	97.77	ug/L		99
105) 1,4-Dichlorobenzene	14.487	146	443527	91.54	ug/L		95
106) n-Butylbenzene	14.688	92	427696	103.06	ug/L		97
107) Benzyl Chloride	14.712	126	92611	86.69	ug/L	#	90
108) 1,2-Dichlorobenzene	14.901	146	386159	91.02	ug/L		97
109) 1,2-Dibromo-3-Chloropr...	15.633	75	38884	82.55	ug/L		90
110) Hexachlorobutadiene	16.169	225	73558	86.29	ug/L		97
111) 1,2,4-Trichlorobenzene	16.224	180	212609	88.98	ug/L		97
112) Naphthalene	16.523	128	577984	83.88	ug/L		99
113) 1,2,3-Trichlorobenzene	16.693	180	174602	88.29	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35984.D
Acq On : 8 Dec 2022 2:00 pm
Operator : courtnef
Sample : IC1617-7
Misc : MS52751,V5E1617,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 08 14:33:53 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration



Manual Integration Approval Summary

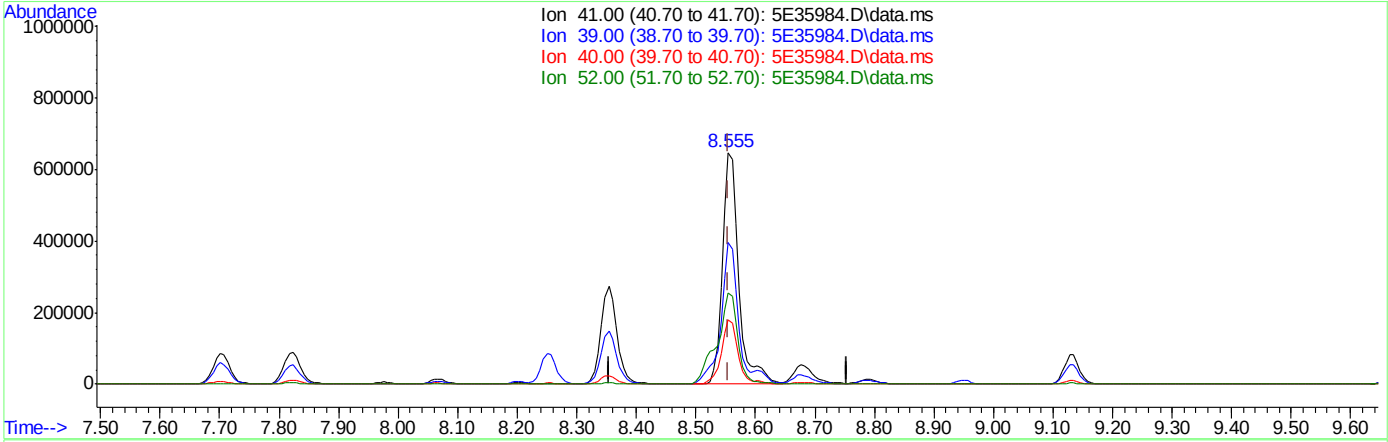
Sample Number:	V5E1617-IC1617	**Method:**	SW846 8260D
Lab FileID:	5E35984.D	**Analyst approved:**	12/08/22 16:36 Courtney Failla
Injection Time:	12/08/22 14:00	**Supervisor approved:**	12/09/22 10:44 Karen Watson

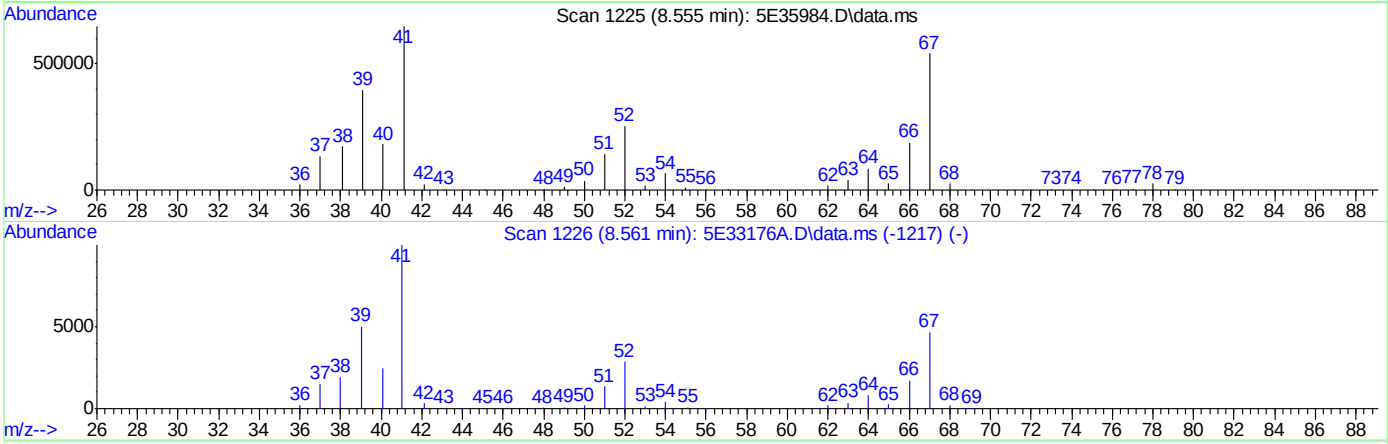
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methacrylonitrile	126-98-7		8.55	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35984.D
Acq On : 8 Dec 2022 2:00 pm
Operator : courtnef
Sample : IC1617-7
Misc : MS52751,V5E1617,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 08 14:33:10 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration





TIC: 5E35984.D\data.ms

(46) Methacrylonitrile

8.555min (-0.000) 902.20ug/L

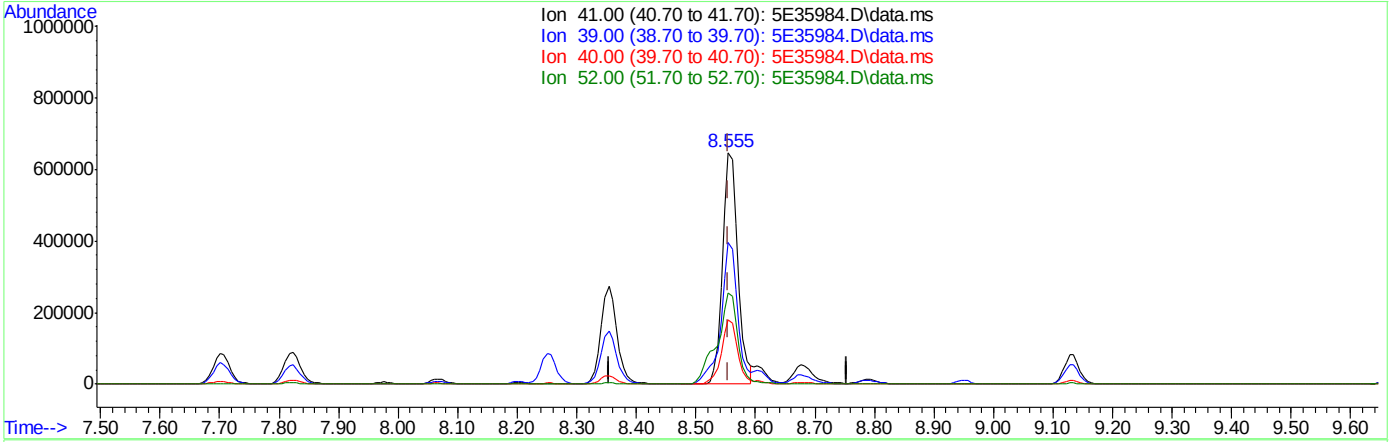
response 1228461

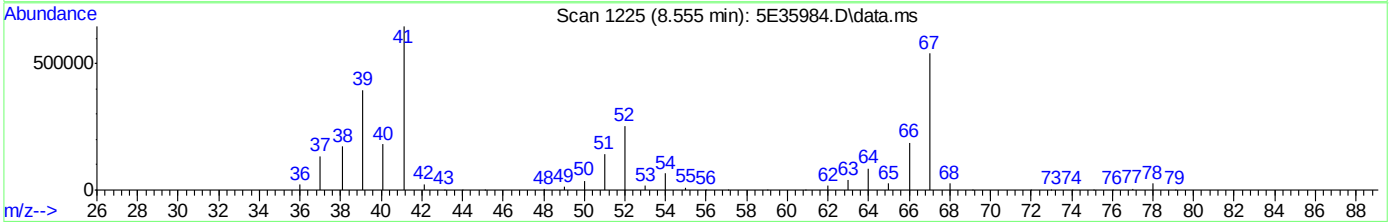
Ion	Exp%	Act%
41.00	100	100
39.00	58.40	60.88
40.00	26.50	27.84
52.00	33.80	39.11

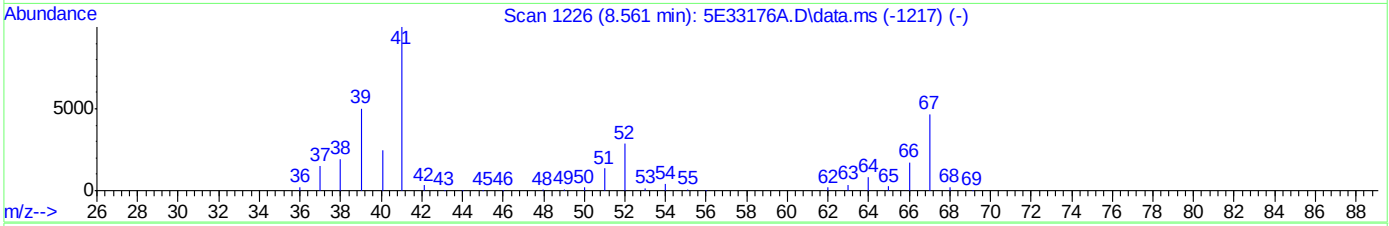
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35984.D
Acq On : 8 Dec 2022 2:00 pm
Operator : courtnef
Sample : IC1617-7
Misc : MS52751,V5E1617,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 08 14:33:10 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Nov 16 15:40:39 2022
Response via : Initial Calibration







TIC: 5E35984.D\data.ms

(46) Methacrylonitrile

8.555min (-0.000) 843.68ug/L m

response 1148782

Ion	Exp%	Act%
41.00	100	100
39.00	58.40	61.09
40.00	26.50	27.86
52.00	33.80	39.36

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35986.D
Acq On : 8 Dec 2022 3:25 pm
Operator : courtnef
Sample : ICV1617-5
Misc : MS52751,V5E1617,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 08 16:32:32 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.951	96	372429	50.00	ug/L		0.00
61) Chlorobenzene-d5	12.115	117	267287	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	129481	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	8.079	113	103058	49.94	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.88%				
49) 1,2-Dichloroethane-d4	8.665	65	116889	49.34	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.68%				
62) Toluene-d8	10.542	98	360399	49.41	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.82%				
86) 4-Bromofluorobenzene	13.328	95	109114	50.66	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.32%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.855	85	78343	34.45	ug/L		91
3) Chloromethane	3.220	50	82081	37.64	ug/L		99
4) Vinyl Chloride	3.373	62	91450	39.49	ug/L		95
5) 1,3-Butadiene	3.403	39	66425	44.86	ug/L		98
6) Bromomethane	3.940	94	52225	43.04	ug/L		94
7) Chloroethane	4.147	64	117014	47.81	ug/L		98
8) Trichlorofluoromethane	4.379	101	117850	42.08	ug/L		95
9) Ethyl Ether	4.866	59	64836	39.37	ug/L		97
10) Ethanol	5.123	45	9255	703.01	ug/L		82
11) 1,2-Dichlorotrifluoroe...	5.153	67	93383	39.69	ug/L		97
12) 1,1-Dichloroethene	5.159	61	111523	38.08	ug/L		98
13) Freon 113	5.220	101	74094	37.54	ug/L		95
14) Carbon Disulfide	5.208	76	219861	39.91	ug/L		98
15) Iodomethane	5.366	142	104547	38.03	ug/L		99
16) Acrolein	5.629	56	71046	200.74	ug/L		99
17) Allyl chloride	5.818	41	81845	40.60	ug/L		93
18) Methylene Chloride	5.958	49	95509	34.56	ug/L		92
19) Acetone	6.013	43	107870	189.68	ug/L		97
20) Methyl acetate	6.171	43	246457	216.50	ug/L		99
21) trans-1,2-Dichloroethene	6.171	61	105420	38.76	ug/L		97
22) Hexane	6.263	56	68097	41.69	ug/L	#	88
23) Methyl Tert Butyl Ether	6.293	73	222351	40.98	ug/L		96
24) Acetonitrile	6.616	41	71467	384.18	ug/L		95
25) Di-isopropyl ether	6.756	45	216822	41.64	ug/L		98
26) Chloroprene	6.909	53	106679	43.73	ug/L		98
27) 1,1-Dichloroethane	6.939	63	145104	40.24	ug/L		97
28) Acrylonitrile	6.994	53	153740	225.63	ug/L		97
29) ETBE	7.195	59	244441	40.60	ug/L		97
30) Tert Butyl Alcohol	6.397	59	103257	369.77	ug/L		99
32) cis-1,2-Dichloroethene	7.579	96	81172	40.82	ug/L		98
33) 2,2-Dichloropropane	7.701	77	105979	36.79	ug/L		98
34) Bromochloromethane	7.811	128	41845	43.25	ug/L		98
35) Cyclohexane	7.823	56	131580	41.23	ug/L		98
36) Chloroform	7.872	83	137441	39.18	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35986.D
Acq On : 8 Dec 2022 3:25 pm
Operator : courtnef
Sample : ICV1617-5
Misc : MS52751,V5E1617,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 08 16:32:32 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	Ethyl acetate	7.976	43	397473	227.28	ug/L		100
38)	Tetrahydrofuran	8.067	42	21451	39.44	ug/L		97
40)	Carbon Tetrachloride	8.049	117	101752	39.77	ug/L		99
41)	1,1,1-Trichloroethane	8.122	97	116421	39.86	ug/L		99
42)	2-Butanone	8.201	43	169913	193.36	ug/L		95
43)	1,1-Dichloropropene	8.256	75	101634	38.62	ug/L		98
44)	tert-Butyl formate	8.354	59	249452	324.03	ug/L		99
45)	Propionitrile	8.537	54	126524	393.50	ug/L		93
46)	Methacrylonitrile	8.555	41	465645	432.39	ug/L		99
47)	Benzene	8.524	78	293582	38.86	ug/L		99
48)	TAME	8.604	73	227609	42.35	ug/L		100
50)	1,2-Dichloroethane	8.732	62	112255	39.12	ug/L		97
51)	tert Amyl alcohol	8.786	59	80030	411.33	ug/L		97
52)	Trichloroethene	9.134	95	80306	39.73	ug/L		96
53)	Methylcyclohexane	9.134	83	134745	42.29	ug/L		98
54)	Dibromomethane	9.579	93	52743	39.65	ug/L		96
55)	1,2-Dichloropropane	9.670	63	79838	37.21	ug/L		96
56)	Bromodichloromethane	9.719	83	107925	42.46	ug/L		99
57)	Methyl methacrylate	9.835	41	64582	41.94	ug/L		94
58)	1,4-Dioxane	9.926	88	16626	891.93	ug/L		93
59)	2-Chloroethyl vinyl ether	10.262	63	244249	209.20	ug/L		98
60)	cis-1,3-Dichloropropene	10.353	75	120787	42.13	ug/L		98
63)	Toluene	10.597	91	314298	39.78	ug/L		97
64)	Isobutyl alcohol	8.677	43	62777	834.90	ug/L		99
65)	2-Nitropropane	10.829	41	119895	203.72	ug/L		100
66)	4-Methyl-2-pentanone	10.938	43	389217	189.66	ug/L		99
67)	trans-1,3-Dichloropropene	10.999	75	115355	45.69	ug/L		96
68)	Tetrachloroethene	10.999	166	79189	40.76	ug/L		98
69)	Ethyl methacrylate	11.103	69	95154	38.35	ug/L		98
70)	1,1,2-Trichloroethane	11.164	83	62828	40.92	ug/L		92
71)	Dibromochloromethane	11.359	129	82697	41.38	ug/L		99
72)	1,3-Dichloropropane	11.451	76	117653	38.43	ug/L		98
73)	1,2-Dibromoethane	11.621	107	77414	41.82	ug/L		98
74)	3,3-Dimethyl-1-butanol	11.707	57	362600	1822.70	ug/L		98
75)	2-hexanone	11.768	43	272999	193.42	ug/L		99
76)	1-Chlorohexane	12.060	91	112724	43.22	ug/L		98
77)	Ethylbenzene	12.121	91	360166	39.83	ug/L		100
78)	Chlorobenzene	12.133	112	211635	40.34	ug/L		91
79)	1,1,1,2-Tetrachloroethane	12.182	131	76218	42.24	ug/L		99
80)	m,p-Xylene	12.261	91	544930	81.24	ug/L		99
81)	o-Xylene	12.706	91	272141	42.52	ug/L		99
82)	Styrene	12.755	104	208808	42.48	ug/L		98
83)	Bromoform	12.816	173	54022	41.57	ug/L		98
84)	Isopropylbenzene	13.005	105	343672	41.42	ug/L		98
87)	cis-1,4-Dichloro-2-butene	13.682	53	26875	43.24	ug/L	#	72
88)	n-Propylbenzene	13.426	91	430654	41.70	ug/L		98
89)	Bromobenzene	13.456	156	80256	39.94	ug/L		97
90)	1,1,2,2-Tetrachloroethane	13.499	83	104448	41.39	ug/L		98
91)	1,3,5-Trimethylbenzene	13.609	105	283154	41.61	ug/L		99
92)	2-Chlorotoluene	13.621	91	256442	40.46	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35986.D
Acq On : 8 Dec 2022 3:25 pm
Operator : courtnef
Sample : ICV1617-5
Misc : MS52751,V5E1617,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 08 16:32:32 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

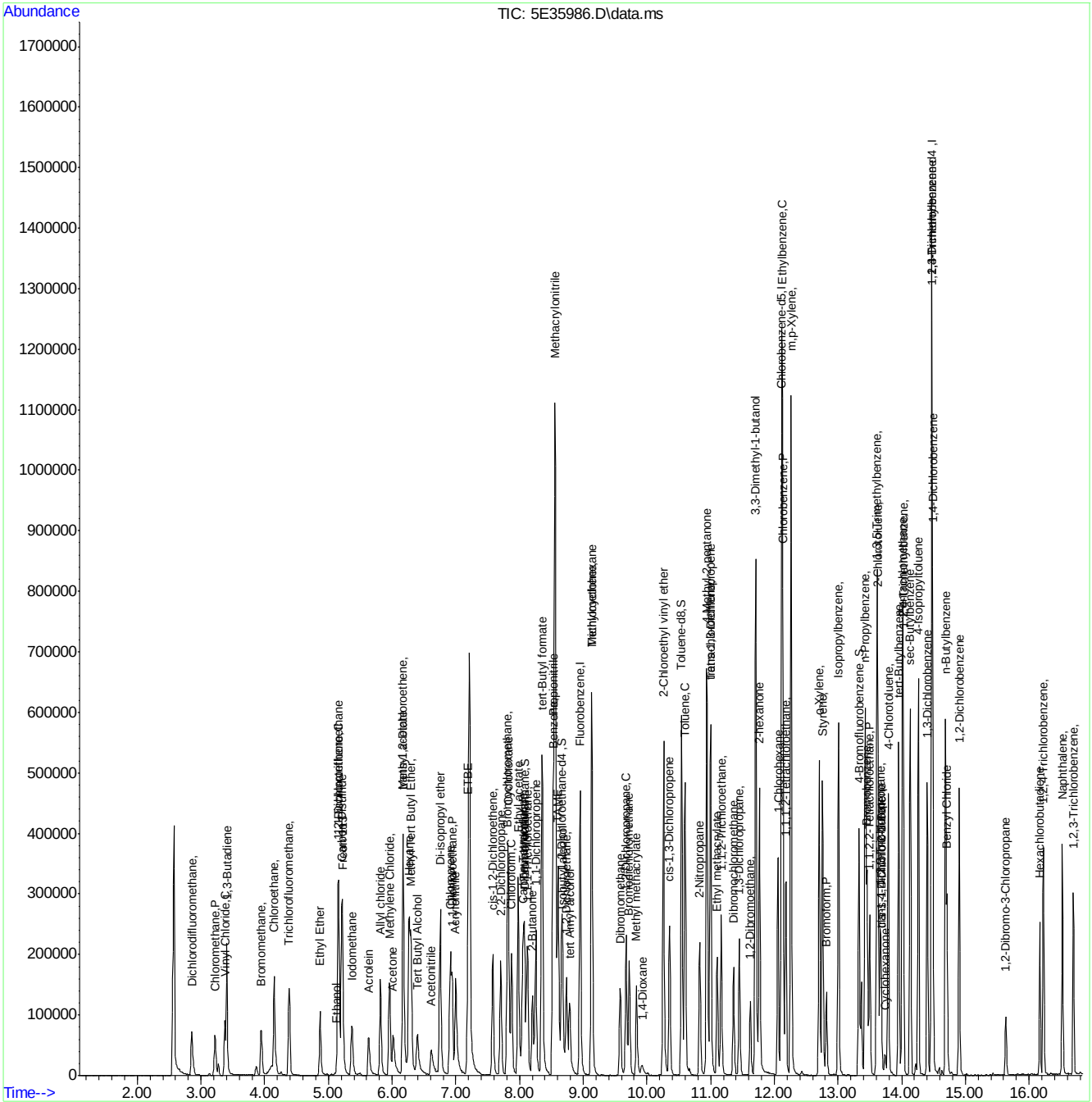
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	trans-1,4-Dichloro-2-B...	13.682	53	26875	43.24	ug/L	#	73
94)	1,2,3-Trichloropropane	13.664	110	27298	37.56	ug/L		94
95)	Cyclohexanone	13.737	55	15367	234.20	ug/L		96
96)	4-Chlorotoluene	13.792	91	232492	41.19	ug/L		98
98)	tert-Butylbenzene	13.950	91	151358	41.15	ug/L		98
99)	1,2,4-Trimethylbenzene	14.023	105	287695	43.62	ug/L		95
100)	Pentachloroethane	14.011	167	51020	42.96	ug/L		92
101)	sec-Butylbenzene	14.133	105	370555	44.29	ug/L		99
102)	4-Isopropyltoluene	14.261	119	321036	43.77	ug/L		99
103)	1,3-Dichlorobenzene	14.401	146	163567	43.59	ug/L		97
104)	1,2,3-Trimethylbenzene	14.474	105	306145	45.98	ug/L		98
105)	1,4-Dichlorobenzene	14.487	146	170290	41.48	ug/L		97
106)	n-Butylbenzene	14.688	92	162112	41.69	ug/L		94
107)	Benzyl Chloride	14.712	126	36518	41.06	ug/L		93
108)	1,2-Dichlorobenzene	14.901	146	152720	42.51	ug/L		99
109)	1,2-Dibromo-3-Chloropr...	15.633	75	15341	39.86	ug/L		91
110)	Hexachlorobutadiene	16.169	225	30247	39.85	ug/L		93
111)	1,2,4-Trichlorobenzene	16.224	180	86500	43.21	ug/L		96
112)	Naphthalene	16.523	128	244506	44.60	ug/L		99
113)	1,2,3-Trichlorobenzene	16.693	180	72400	42.93	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35986.D
Acq On : 8 Dec 2022 3:25 pm
Operator : courtnef
Sample : ICV1617-5
Misc : MS52751,V5E1617,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 08 16:32:32 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35987.D
Acq On : 8 Dec 2022 4:06 pm
Operator : courtnef
Sample : ICV1617-4
Misc : MS52751,V5E1617,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 08 16:33:48 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

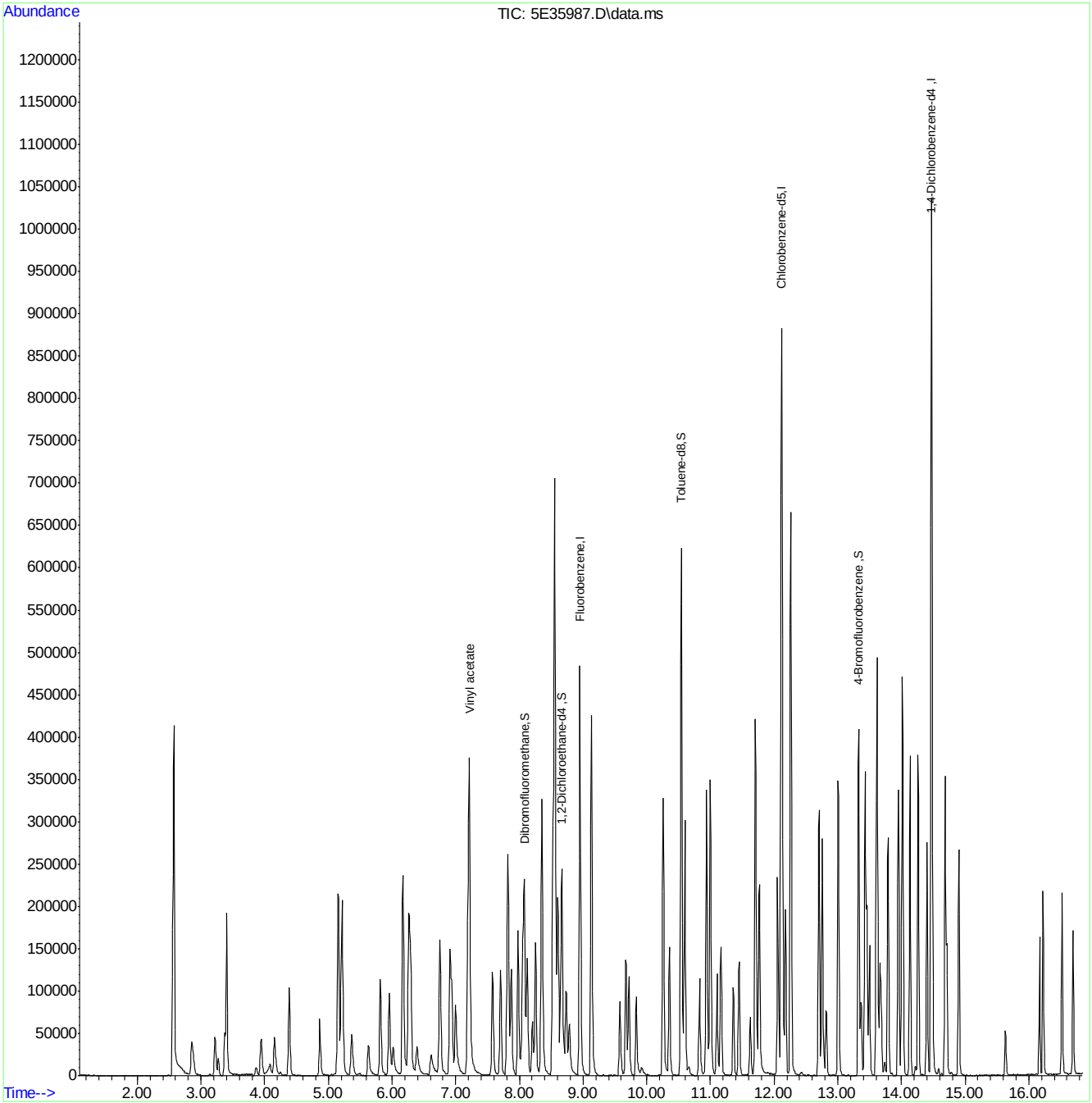
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	386293	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.115	117	270797	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	129275	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.079	113	107995	50.46	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.92%			
49) 1,2-Dichloroethane-d4	8.665	65	126557	51.50	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.00%			
62) Toluene-d8	10.542	98	376881	51.00	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.00%			
86) 4-Bromofluorobenzene	13.328	95	110225	51.26	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.52%			
Target Compounds						Qvalue
31) Vinyl acetate	7.214	43	492954	134.19	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\12-08-2022\
Data File : 5E35987.D
Acq On : 8 Dec 2022 4:06 pm
Operator : courtnef
Sample : ICV1617-4
Misc : MS52751,V5E1617,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 08 16:33:48 2022
Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36297.d
Acq On : 27 Dec 2022 10:45 am
Operator : joannel
Sample : cc1617-5 Inst : MSVOA20
Misc : MS52751,V5E1632,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:56:13 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	350228	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	278064	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	143649	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.079	113	99871	51.47	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.94%			
49) 1,2-Dichloroethane-d4	8.665	65	112020	50.28	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.56%			
62) Toluene-d8	10.542	98	354978	46.78	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 93.56%			
86) 4-Bromofluorobenzene	13.322	95	118093	49.42	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.84%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.849	85	94123	44.01	ug/L	95
3) Chloromethane	3.214	50	93991	45.83	ug/L	97
4) Vinyl Chloride	3.367	62	100228	46.02	ug/L	99
5) 1,3-Butadiene	3.403	39	60772	43.65	ug/L	95
6) Bromomethane	3.940	94	46243	40.52	ug/L	98
7) Chloroethane	4.147	64	81444	39.38	ug/L	99
8) Trichlorofluoromethane	4.385	101	123540	46.91	ug/L	93
9) Ethyl Ether	4.866	59	66088	42.67	ug/L	94
10) Ethanol	5.104	45	10823	874.23	ug/L	89
11) 1,2-Dichlorotrifluoroe...	5.153	67	100015	45.20	ug/L	98
12) 1,1-Dichloroethene	5.159	61	121546	44.13	ug/L	98
13) Freon 113	5.220	101	81472	43.89	ug/L	95
14) Carbon Disulfide	5.208	76	209506	40.44	ug/L	98
15) Iodomethane	5.366	142	58437	22.93	ug/L	98
16) Acrolein	5.629	56	80569	242.08	ug/L	94
17) Allyl chloride	5.811	41	85202	44.94	ug/L	92
18) Methylene Chloride	5.958	49	107950	42.01	ug/L	99
19) Acetone	6.013	43	109138	204.94	ug/L	96
20) Methyl acetate	6.171	43	247662	231.34	ug/L	97
21) trans-1,2-Dichloroethene	6.171	61	115781	45.27	ug/L	100
22) Hexane	6.263	56	72432	47.15	ug/L	91
23) Methyl Tert Butyl Ether	6.293	73	224450	43.99	ug/L	98
24) Acetonitrile	6.610	41	74874	428.01	ug/L	97
25) Di-isopropyl ether	6.750	45	223361	45.61	ug/L	98
26) Chloroprene	6.909	53	102343	44.61	ug/L	98
27) 1,1-Dichloroethane	6.939	63	149727	44.15	ug/L	99
28) Acrylonitrile	6.994	53	147253	229.81	ug/L	97
29) ETBE	7.189	59	258056	45.58	ug/L	98
30) Tert Butyl Alcohol	6.391	59	98448	375.22	ug/L	95
31) Vinyl acetate	7.214	43	785806	235.93	ug/L	97
32) cis-1,2-Dichloroethene	7.579	96	83323	44.56	ug/L	99
33) 2,2-Dichloropropane	7.701	77	122112	45.07	ug/L	99
34) Bromochloromethane	7.811	128	39615	43.54	ug/L	96
35) Cyclohexane	7.823	56	135863	45.27	ug/L	95
36) Chloroform	7.872	83	144698	43.87	ug/L	97
37) Ethyl acetate	7.976	43	380532	231.38	ug/L	99
38) Tetrahydrofuran	8.067	42	22012	43.04	ug/L	97
40) Carbon Tetrachloride	8.049	117	113026	46.98	ug/L	98
41) 1,1,1-Trichloroethane	8.122	97	124907	45.47	ug/L	98
42) 2-Butanone	8.201	43	182092	220.36	ug/L	99
43) 1,1-Dichloropropene	8.256	75	108629	43.90	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36297.d
Acq On : 27 Dec 2022 10:45 am
Operator : joannel
Sample : cc1617-5 Inst : MSVOA20
Misc : MS52751,V5E1632,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:56:13 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) tert-Butyl formate	8.354	59	376644	520.26	ug/L	98
45) Propionitrile	8.530	54	133173	440.56	ug/L	97
46) Methacrylonitrile	8.555	41	498148	491.89	ug/L	99
47) Benzene	8.524	78	308539	43.43	ug/L	96
48) TAME	8.604	73	229990	45.51	ug/L	98
50) 1,2-Dichloroethane	8.738	62	120342	44.60	ug/L	98
51) tert Amyl alcohol	8.786	59	82398	452.35	ug/L	98
52) Trichloroethene	9.128	95	85373	44.91	ug/L	97
53) Methylcyclohexane	9.134	83	142071	47.42	ug/L	99
54) Dibromomethane	9.579	93	54835	43.84	ug/L	96
55) 1,2-Dichloropropane	9.670	63	87162	43.24	ug/L	95
56) Bromodichloromethane	9.719	83	112050	46.87	ug/L	98
57) Methyl methacrylate	9.835	41	61829	42.70	ug/L	94
58) 1,4-Dioxane	9.920	88	15741	897.64	ug/L	97
59) 2-Chloroethyl vinyl ether	10.256	63	183502	167.14	ug/L	99
60) cis-1,3-Dichloropropene	10.353	75	126866	47.05	ug/L	99
63) Toluene	10.597	91	330759	40.24	ug/L	98
64) Isobutyl alcohol	8.671	43	65046	831.55	ug/L	95
65) 2-Nitropropane	10.829	41	128923	210.68	ug/L	99
66) 4-Methyl-2-pentanone	10.938	43	417067	195.36	ug/L	99
67) trans-1,3-Dichloropropene	10.993	75	112347	42.78	ug/L	95
68) Tetrachloroethene	10.999	166	84476	41.79	ug/L	98
69) Ethyl methacrylate	11.103	69	97166	37.65	ug/L	99
70) 1,1,2-Trichloroethane	11.164	83	64732	40.52	ug/L	94
71) Dibromochloromethane	11.359	129	88940	42.78	ug/L	95
72) 1,3-Dichloropropane	11.451	76	129535	40.67	ug/L	98
73) 1,2-Dibromoethane	11.621	107	81052	42.09	ug/L	100
74) 3,3-Dimethyl-1-butanol	11.707	57	435516	2109.33	ug/L	98
75) 2-hexanone	11.761	43	298640	203.39	ug/L	98
76) 1-Chlorohexane	12.054	91	115338	42.51	ug/L	92
77) Ethylbenzene	12.121	91	380982	40.50	ug/L	99
78) Chlorobenzene	12.127	112	220799	40.45	ug/L	97
79) 1,1,1,2-Tetrachloroethane	12.176	131	80399	42.83	ug/L	97
80) m,p-Xylene	12.261	91	571954	81.96	ug/L	99
81) o-Xylene	12.700	91	277030	41.61	ug/L	99
82) Styrene	12.755	104	216351	42.31	ug/L	98
83) Bromoform	12.816	173	55661	41.18	ug/L	98
84) Isopropylbenzene	13.005	105	363477	42.10	ug/L	99
87) cis-1,4-Dichloro-2-butene	13.676	53	25193	36.36	ug/L	96
88) n-Propylbenzene	13.426	91	452206	39.47	ug/L	98
89) Bromobenzene	13.456	156	88000	39.48	ug/L	99
90) 1,1,2,2-Tetrachloroethane	13.493	83	107844	38.52	ug/L	97
91) 1,3,5-Trimethylbenzene	13.609	105	303759	40.23	ug/L	99
92) 2-Chlorotoluene	13.621	91	270578	38.48	ug/L	99
93) trans-1,4-Dichloro-2-B...	13.676	53	25193	36.36	ug/L	96
94) 1,2,3-Trichloropropane	13.664	110	30713	38.11	ug/L	98
95) Cyclohexanone	13.737	55	15643	215.71	ug/L	93
96) 4-Chlorotoluene	13.785	91	242578	38.74	ug/L	99
98) tert-Butylbenzene	13.950	91	162903	39.92	ug/L	98
99) 1,2,4-Trimethylbenzene	14.017	105	297009	40.59	ug/L	98
100) Pentachloroethane	14.005	167	50601	38.41	ug/L	96
101) sec-Butylbenzene	14.133	105	377528	40.67	ug/L	98
102) 4-Isopropyltoluene	14.261	119	334762	41.14	ug/L	98
103) 1,3-Dichlorobenzene	14.401	146	166339	39.96	ug/L	97
104) 1,2,3-Trimethylbenzene	14.474	105	299157	40.50	ug/L	99
105) 1,4-Dichlorobenzene	14.480	146	179614	39.44	ug/L	96
106) n-Butylbenzene	14.682	92	181155	41.99	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36297.d
Acq On : 27 Dec 2022 10:45 am
Operator : joannel
Sample : cc1617-5 Inst : MSVOA20
Misc : MS52751,V5E1632,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:56:13 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

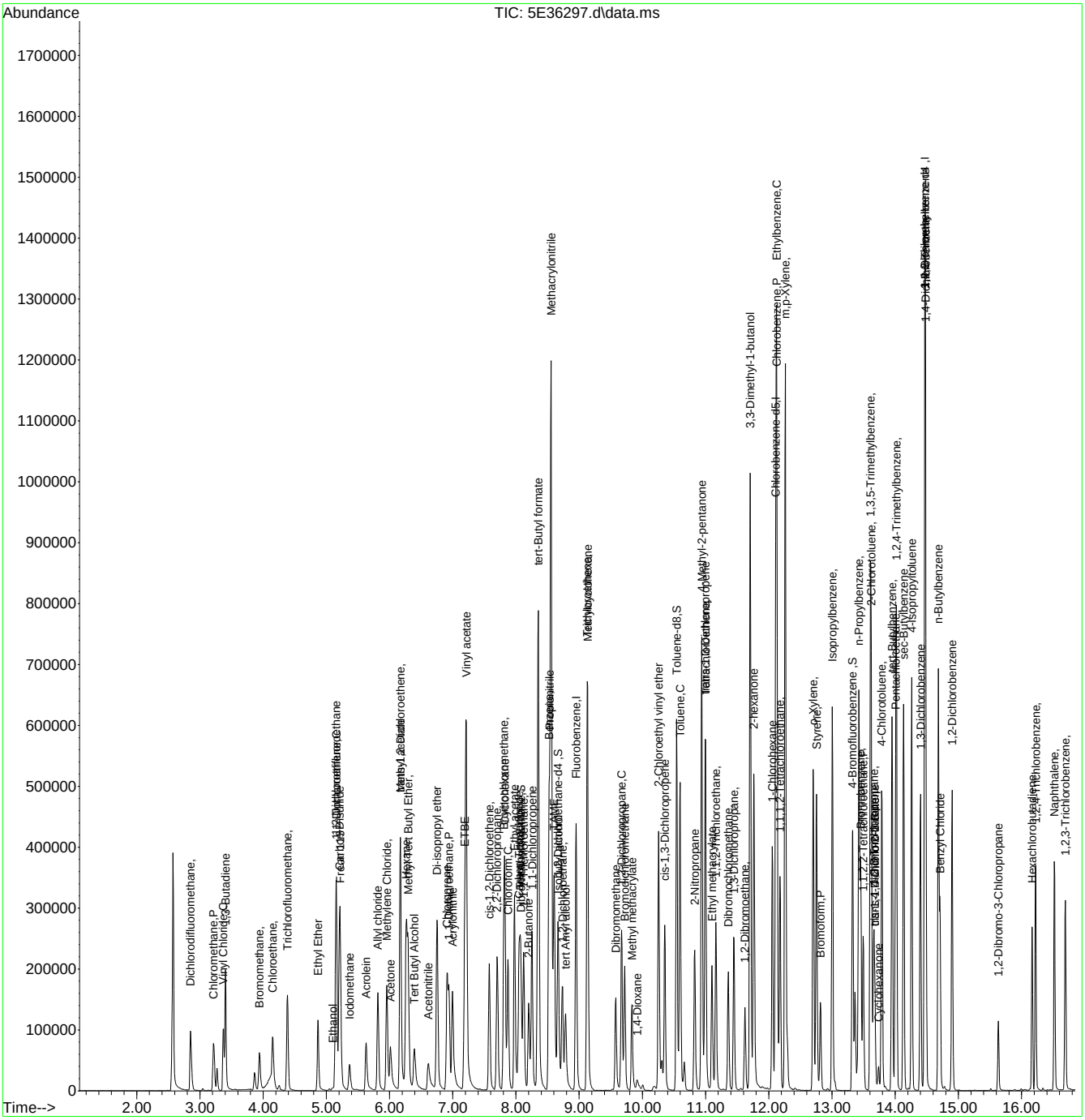
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) Benzyl Chloride	14.712	126	36172	37.37	ug/L	97
108) 1,2-Dichlorobenzene	14.901	146	159688	40.07	ug/L	99
109) 1,2-Dibromo-3-Chloropr...	15.633	75	16803	39.34	ug/L	91
110) Hexachlorobutadiene	16.169	225	34278	40.71	ug/L	98
111) 1,2,4-Trichlorobenzene	16.224	180	91657	41.27	ug/L	96
112) Naphthalene	16.517	128	246594	40.55	ug/L	100
113) 1,2,3-Trichlorobenzene	16.693	180	75473	40.34	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36297.d
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Operator : joannel
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Misc : MS52751,V5E1632,,,,,
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Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:56:13 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36322.d
Acq On : 27 Dec 2022 8:22 pm
Operator : joannel
Sample : ECC1617-5 Inst : MSVOA20
Misc : MS52751,V5E1632,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:58:17 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	329722	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	270034	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	139122	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.073	113	95709	52.39	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.78%			
49) 1,2-Dichloroethane-d4	8.665	65	106997	51.01	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.02%			
62) Toluene-d8	10.542	98	338715	45.96	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 91.92%			
86) 4-Bromofluorobenzene	13.322	95	113257	48.94	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.88%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.849	85	85711	42.57	ug/L	96
3) Chloromethane	3.221	50	81851	42.40	ug/L	99
4) Vinyl Chloride	3.373	62	88912	43.37	ug/L	97
5) 1,3-Butadiene	3.403	39	57478	43.85	ug/L	96
6) Bromomethane	3.940	94	43773	40.74	ug/L	97
7) Chloroethane	4.153	64	71203	37.50	ug/L	98
8) Trichlorofluoromethane	4.385	101	113765	45.89	ug/L	95
9) Ethyl Ether	4.867	59	63124	43.29	ug/L	97
10) Ethanol	5.098	45	13777	1182.05	ug/L	96
11) 1,2-Dichlorotrifluoroe...	5.153	67	89746	43.08	ug/L	96
12) 1,1-Dichloroethene	5.159	61	106967	41.25	ug/L	99
13) Freon 113	5.220	101	72225	41.33	ug/L	95
14) Carbon Disulfide	5.208	76	180244	36.96	ug/L	98
15) Iodomethane	5.366	142	61327	25.50	ug/L	97
16) Acrolein	5.629	56	71213	227.28	ug/L	90
17) Allyl chloride	5.818	41	75102	42.08	ug/L	96
18) Methylene Chloride	5.958	49	98298	40.54	ug/L	91
19) Acetone	6.013	43	99055	197.15	ug/L	98
20) Methyl acetate	6.171	43	235785	233.95	ug/L	99
21) trans-1,2-Dichloroethene	6.171	61	103319	42.91	ug/L	98
22) Hexane	6.263	56	60381	41.75	ug/L #	86
23) Methyl Tert Butyl Ether	6.293	73	212423	44.22	ug/L	97
24) Acetonitrile	6.616	41	70079	425.51	ug/L	93
25) Di-isopropyl ether	6.750	45	200198	43.42	ug/L	98
26) Chloroprene	6.909	53	92183	42.68	ug/L	98
27) 1,1-Dichloroethane	6.939	63	135975	42.59	ug/L	98
28) Acrylonitrile	6.994	53	134418	222.83	ug/L	100
29) ETBE	7.189	59	236914	44.45	ug/L	97
30) Tert Butyl Alcohol	6.391	59	93567	379.02	ug/L	97
31) Vinyl acetate	7.214	43	710079	226.45	ug/L	98
32) cis-1,2-Dichloroethene	7.579	96	75959	43.14	ug/L	95
33) 2,2-Dichloropropane	7.707	77	97936	38.40	ug/L	97
34) Bromochloromethane	7.811	128	36839	43.01	ug/L	97
35) Cyclohexane	7.823	56	122358	43.30	ug/L	96
36) Chloroform	7.872	83	133993	43.15	ug/L	97
37) Ethyl acetate	7.976	43	358755	231.71	ug/L	99
38) Tetrahydrofuran	8.067	42	19564	40.63	ug/L	93
40) Carbon Tetrachloride	8.049	117	100530	44.38	ug/L	97
41) 1,1,1-Trichloroethane	8.122	97	114055	44.10	ug/L	97
42) 2-Butanone	8.201	43	162504	208.88	ug/L	99
43) 1,1-Dichloropropene	8.250	75	96939	41.61	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36322.d
Acq On : 27 Dec 2022 8:22 pm
Operator : joannel
Sample : ECC1617-5 Inst : MSVOA20
Misc : MS52751,V5E1632,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:58:17 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl formate	8.354	59	331056	485.73	ug/L		100
45) Propionitrile	8.530	54	127058	446.49	ug/L		92
46) Methacrylonitrile	8.555	41	465264	487.99	ug/L		100
47) Benzene	8.524	78	279085	41.73	ug/L		97
48) TAME	8.604	73	214361	45.05	ug/L		98
50) 1,2-Dichloroethane	8.732	62	112233	44.18	ug/L		97
51) tert Amyl alcohol	8.780	59	77862	454.12	ug/L		95
52) Trichloroethene	9.134	95	78315	43.76	ug/L		98
53) Methylcyclohexane	9.134	83	126475	44.84	ug/L		99
54) Dibromomethane	9.579	93	51206	43.48	ug/L		95
55) 1,2-Dichloropropane	9.671	63	79549	41.91	ug/L		99
56) Bromodichloromethane	9.719	83	102287	45.45	ug/L		97
57) Methyl methacrylate	9.835	41	58274	42.75	ug/L		95
58) 1,4-Dioxane	9.920	88	14991	907.42	ug/L		91
59) 2-Chloroethyl vinyl ether	10.256	63	188571	182.44	ug/L		98
60) cis-1,3-Dichloropropene	10.353	75	112034	44.14	ug/L		99
63) Toluene	10.597	91	301350	37.76	ug/L		99
64) Isobutyl alcohol	8.671	43	59879	788.25	ug/L		95
65) 2-Nitropropane	10.829	41	116459	195.74	ug/L		98
66) 4-Methyl-2-pentanone	10.939	43	396388	191.19	ug/L		99
67) trans-1,3-Dichloropropene	10.993	75	100376	39.35	ug/L		93
68) Tetrachloroethene	10.999	166	79759	40.63	ug/L		99
69) Ethyl methacrylate	11.103	69	92655	36.97	ug/L		97
70) 1,1,2-Trichloroethane	11.164	83	61542	39.67	ug/L		94
71) Dibromochloromethane	11.359	129	82002	40.61	ug/L		98
72) 1,3-Dichloropropane	11.451	76	120231	38.88	ug/L		98
73) 1,2-Dibromoethane	11.621	107	75269	40.25	ug/L		99
74) 3,3-Dimethyl-1-butanol	11.707	57	418971	2089.20	ug/L		99
75) 2-hexanone	11.762	43	277263	194.45	ug/L		99
76) 1-Chlorohexane	12.054	91	101812	38.64	ug/L		92
77) Ethylbenzene	12.121	91	341376	37.37	ug/L		98
78) Chlorobenzene	12.127	112	202793	38.26	ug/L		96
79) 1,1,1,2-Tetrachloroethane	12.176	131	74645	40.95	ug/L		96
80) m,p-Xylene	12.261	91	519147	76.61	ug/L		100
81) o-Xylene	12.700	91	254133	39.30	ug/L		97
82) Styrene	12.755	104	197833	39.84	ug/L		99
83) Bromoform	12.816	173	49540	37.83	ug/L		96
84) Isopropylbenzene	13.005	105	327712	39.09	ug/L		98
87) cis-1,4-Dichloro-2-butene	13.682	53	20189	29.96	ug/L	#	64
88) n-Propylbenzene	13.426	91	402332	36.26	ug/L		96
89) Bromobenzene	13.456	156	80208	37.15	ug/L		98
90) 1,1,2,2-Tetrachloroethane	13.493	83	103753	38.26	ug/L		99
91) 1,3,5-Trimethylbenzene	13.609	105	271192	37.09	ug/L		99
92) 2-Chlorotoluene	13.621	91	243657	35.78	ug/L		100
93) trans-1,4-Dichloro-2-B...	13.682	53	20189	29.96	ug/L	#	63
94) 1,2,3-Trichloropropane	13.664	110	29590	37.90	ug/L		94
95) Cyclohexanone	13.737	55	14964	213.17	ug/L		93
96) 4-Chlorotoluene	13.786	91	218565	36.04	ug/L		99
98) tert-Butylbenzene	13.950	91	144967	36.68	ug/L		98
99) 1,2,4-Trimethylbenzene	14.017	105	267450	37.74	ug/L		97
100) Pentachloroethane	14.005	167	43931	34.43	ug/L		95
101) sec-Butylbenzene	14.133	105	341687	38.01	ug/L		98
102) 4-Isopropyltoluene	14.261	119	303790	38.55	ug/L		98
103) 1,3-Dichlorobenzene	14.401	146	151980	37.70	ug/L		97
104) 1,2,3-Trimethylbenzene	14.474	105	273962	38.29	ug/L		98
105) 1,4-Dichlorobenzene	14.481	146	166428	37.73	ug/L		96
106) n-Butylbenzene	14.682	92	156394	37.43	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36322.d
Acq On : 27 Dec 2022 8:22 pm
Operator : joannel
Sample : ECC1617-5 Inst : MSVOA20
Misc : MS52751,V5E1632,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
Quant Results File: appIX12-08-2022_.RES
Quant Time: Dec 28 02:58:17 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration

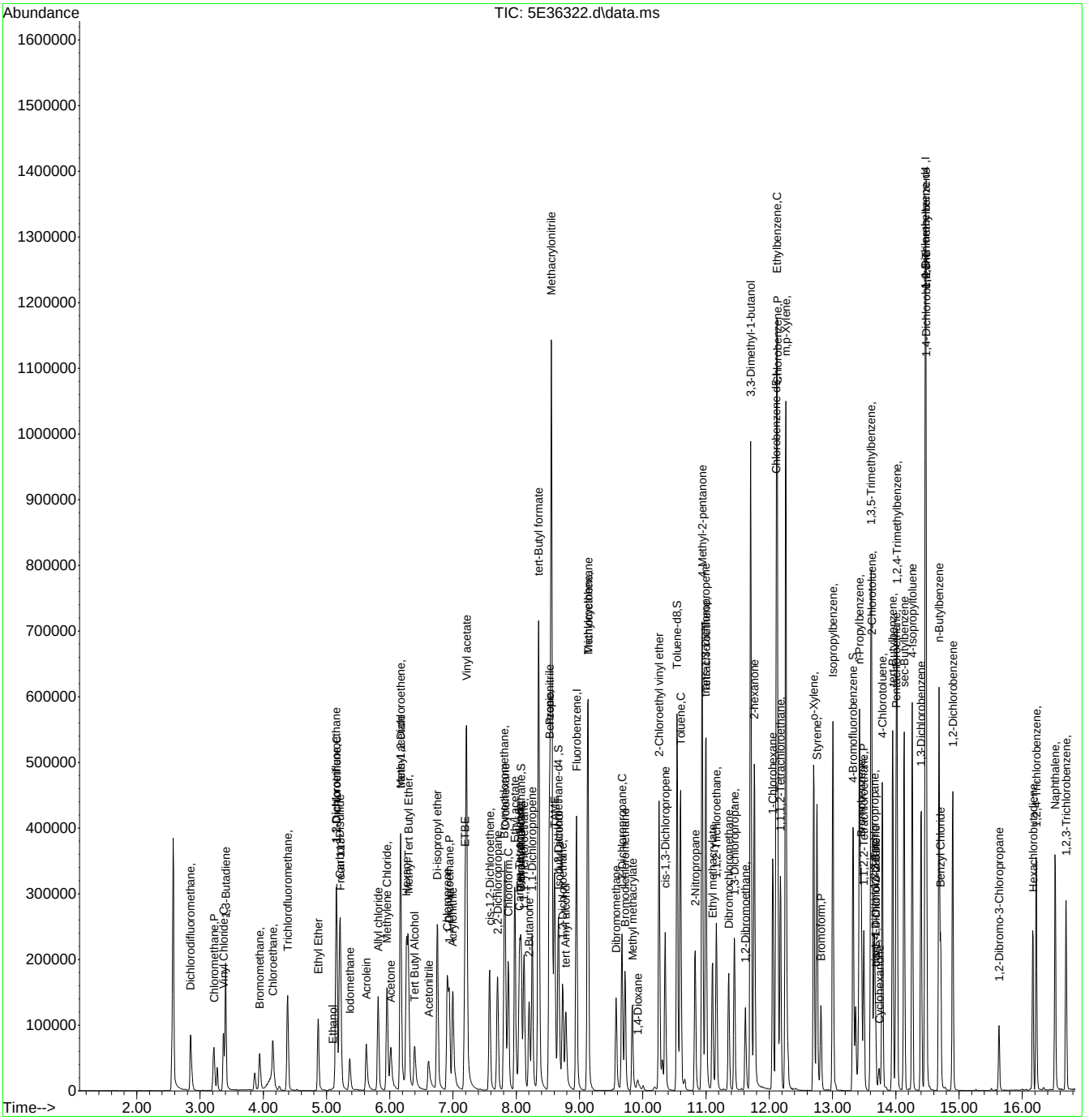
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
107) Benzyl Chloride	14.706	126	28329	31.24	ug/L	#	86
108) 1,2-Dichlorobenzene	14.901	146	148621	38.51	ug/L		97
109) 1,2-Dibromo-3-Chloropr...	15.633	75	14821	35.74	ug/L		98
110) Hexachlorobutadiene	16.169	225	29645	36.35	ug/L		93
111) 1,2,4-Trichlorobenzene	16.224	180	83817	38.97	ug/L		97
112) Naphthalene	16.517	128	232994	39.56	ug/L		98
113) 1,2,3-Trichlorobenzene	16.694	180	72339	39.92	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\johnm\December 2022\12-28-2022\v5e1632-1633\
Data File : 5E36322.d
Acq On : 27 Dec 2022 8:22 pm
Operator : joannel
Sample : ECC1617-5 Inst : MSVOA20
Misc : MS52751,V5E1632,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX12-08-2022_.M
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Quant Time: Dec 28 02:58:17 2022
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Dec 08 16:31:47 2022
Response via : Initial Calibration



SGS -ORLANDO

MSVOA20-5E-ANALYSIS LOG

DATE:	12/8/2022
COLUMN TYPE:	RTXVMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSVOA20-5E
PURGE PRESSURE:	11 PSI
PURGE VOLUME:	5 mL
ANALYST:	Courtney F

METHODS:*	8260
METHOD FILE:	applX12-08-2022.M
CALIB. DATE:	12/8/2022
EM VOLTAGE:	1482V
ACQ. METHOD:	8260VMSVI
BFB RESPONSE:	526601
Run ID:	V5E1617

BFB:	VS2676
ICAL/CC:	VS2655, VS2687, VS2692
	VS2693, VS2694, VS2688
ISTD/SUR:	VS2676
ICV/QC:	VS2641, VS2691, VS2695
	VS2696, VS2690, VS2684, VS2697
AFA:	VS2664A

pH LOT: 230320, 230418	
KI PAPER LOT: 07062021	
Data Processed By:	
Courtney F/John M	
Sample ID Verified By:	
Courtney F	
Date verfied: 12/8/2022	

Data File	Sample ID	Dil.	Vial #	Matrix	ALS Pos.	Sample Method	Manually Integrated Peaks Rationale, Peak#	pH	CI ?	RR	Comments
5E35977	BLANK	-	-	W	1	8260		-	-	-	Passed autofind ✓
5E35978	BFB/IC1617-1	-	-	W	2	8260		-	-	-	Passed autofind; 1uL→ 100mL ✓
5E35979	IC1617-2	-	-	W	3	8260		-	-	-	5uL→ 100mL ✓
5E35980	IC1617-3	-	-	W	4	8260		-	-	-	5uL→ 50mL ✓
5E35981	IC1617-4	-	-	W	5	8260		-	-	-	12.5uL→ 50mL ✓
5E35982	ICC1617-5	-	-	W	6	8260		-	-	-	20uL→ 50mL ✓
5E35983	IC1617-6	-	-	W	7	8260		-	-	-	35uL→ 50mL ✓
5E35984	IC1617-7	-	-	W	8	8260		-	-	-	50uL→ 50mL ✓
5E35985	BLANK	-	-	W	9	8260		-	-	-	✓
5E35986A	ICV1617-5/CC1617-5	-	-	W	10	8260		-	-	-	25uL→ 50mL ✓
5E35987A	ICV1617-4/BS	-	-	W	11	8260		-	-	-	12.5uL→ 50mL ✓
5E35988	CC1617-1	-	-	W	12	8260		-	-	-	1uL→ 100mL ✓
5E35989	BLANK	-	-	W	13	8260		-	-	-	✓
5E35990	MB	-	-	W	14	8260		-	-	-	AFA, ND ✓
5E35991	FC925-7	1x	1	W	15	8260		7	N	-	MI and Acrylon only ✓
5E35992	FC925-1	1x	3	W	16	8260		7	N	-	AFA, MI and Acrylon only ✓
5E35993	FC925-2	1x	3	W	17	8260		7	N	-	AFA, MI and Acrylon only ✓
5E35994	FC925-3	1x	3	W	18	8260		6	N	-	AFA, MI, MB, and Acrylon only ✓
5E35995	FC925-4	2x	3	W	19	8260	25mL(-)50mL	7	N	-	AFA, MI and Acrylon only ✓
5E35996	FC925-5	1x	3	W	20	8260		7	N	-	AFA, MI and Acrylon only ✓
5E35997	FC925-6	1x	3	W	21	8260		7	N	-	AFA, MI and Acrylon only ✓
5E35998	ECC1617-5	-	-	W	22	8260		-	-	-	20uL→ 50mL ✓

CF 12/9/22

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix Designaate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueus Liquid, and "TCLP" or "SPLP" for Leachate.

Manual Integration Rational SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument

Analyst's Signature: CF

SGS -ORLANDO

MSVOA20-5E-ANALYSIS LOG

DATE:	12/27/2022
COLUMN TYPE:	RTXVMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSVOA20-5E
PURGE PRESSURE:	11 PSI
PURGE VOLUME:	5 mL
ANALYST:	Kylie G

METHODS:*	8260
METHOD FILE:	applX12-08-2022.M
CALIB. DATE:	12/8/2022
EM VOLTAGE:	1482V
ACQ. METHOD:	8260VMSVI
BFB RESPONSE:	694350
Run ID:	V5E1632-33

BFB:	VS2676
ICAL/CC:	VS2655, VS2687, VS2692
	VS2693, VS2694, VS2738
ISTD/SUR:	VS2676
ICV/QC:	VS2641, VS2691, VS2695
	VS2696, VS2690, VS2684, VS2739
AFA:	VS2664E

pH LOT: 230320, 230418
KI PAPER LOT: 07062021
Data Processed By:
Kylie G/ JoAnn L/ John M.
Sample ID Verified By:
Kylie G/ JoAnn L
Date verfied: 12/27/2022

Data File	Sample ID	Dil.	Vial #	Matrix	ALS Pos.	Sample Method	Manually Integrated Peaks Rationale, Peak#	pH	CI ?	RR	Comments
5E36296	BLANK	-	-	W	1	8260		-	-	-	✓
5E36297	BFB/CC1617-5	-	-	W	2	8260		-	-	-	Passed autofind; 20uL→ 50mL ✓
5E36298	BS	-	-	W	3	8260		-	-	-	12.5uL→ 40mL ✓
5E36299	CC1617-1	-	-	W	4	8260		-	-	-	1uL→ 100mL; all CCV low peaks present ✓
5E36300	BLANK	-	-	W	5	8260		-	-	-	✓
5E36301	MB	-	-	W	6	8260		-	-	-	ND ✓
5E36302	OP94669-LB 10X	10X	-	W	7	8260	5mL(-) 50mL	6	N	-	ND ✓
5E36303	OP94572-LB 10X	10X	-	W	8	8260	5mL(-) 50mL	6	N	-	ND ✓
5E36304	FC1455-1L 10X	1X	-	W	9	8260	5mL(-) 50mL	6	N	-	ND ✓
5E36305	FC1233-1L 10X	10X	-	W	10	8260	5mL(-) 50mL	6	N	-	ND ✓
5E36306	FC1331-1L 10X	10X	-	W	11	8260	5mL(-) 50mL	6	N	-	✓
5E36307	FC1275-1L	10X	-	W	12	8260	5mL(-) 50mL	6	N	-	✓
5E36308	FC1584-7	1X	1	W	13	8260		1	N	-	ND ✓
5E36309	FC1584-1	1X	2	W	14	8260	AFA	1	N	-	✓
5E36310	FC1584-2	1X	1	W	15	8260	AFA	1	N	-	✓
5E36311	FC1584-3	1X	1	W	16	8260	Bubble>6mm; all vials received; AFA	1	N	-	✓
5E36312	FC1584-4	1X	1	W	17	8260	AFA	1	N	-	✓
5E36313	FC1584-5	1X	3	W	18	8260	AFA	1	N	-	✓
5E36314	FC1584-6	1X	2	W	19	8260	AFA	1	N	-	✓
5E36315	FC1588-1	1X	6	W	20	8260	Bubble>6mm; all vials received; AFA	1	N	-	✓
5E36316	FC1588-2	1X	1	W	21	8260	Bubble>6mm; all vials received; AFA	1	N	-	✓
5E36317	FC1588-3	1X	2	W	22	8260	Bubble>6mm; all vials received; AFA	1	N	-	✓
5E36318	FC144-1LMS 10X	10X	-	W	23	8260	V5E1632; 10mL(-) 100mL	6	N	-	12.5uL→ 50mL ✓
5E36319	FC144-1LMSD 10X	10X	-	W	24	8260	V5E1632; 10mL(-) 100mL	6	N	-	12.5uL→ 50mL ✓
5E36320	FC1588-1MS 5X	5X	2	W	25	8260	V5E1633; 20mL(-) 100mL	1	N	-	12.5uL→ 50mL ✓
5E36321	FC1588-1MSD 5X	5X	2	W	26	8260	V5E1633; 20mL(-) 100mL	1	N	-	12.5uL→ 50mL ✓
5E36322	ECC1617-5	-	-	W	27	8260		-	-	-	20uL→ 50mL ✓
5E36323	MB(AFA)	-	-	W	28	8260		-	-	-	AFA; ND ✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designaate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous Liquid, and "TCLP" or "SPLP" for Leachate.

Manual Integration Rational SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument

Analyst's Signature: KG 12/28/22

SGS ACCUTEST - ORLANDO

VOLATILE TCLP SAMPLE PREP SHEET

Analyst: QP

Method: 1311TCLP

Scan as: ZHE_**MMDDYY**

Therm. ID: 170614817 Corr. Factor (±°C): 0

OP Batch #: QP#94669

Balance ID: 834/326/158

Starting Room Temp. (21-25 °C)°C: 22/22 {obs/corr}

Date / Time Tumbling Started: 12/22/22 13:30 {mm/dd/yy 24:00}

Lo/Hi Room Temp. (21-25 °C)°C: 21/23 (obs) 21/23 (corr)

Date / Time Tumbling Finished: 12/23/22 08:00 {mm/dd/yy 24:00}

pH Meter ID: AE95014868

pH Fluid 1 (4.88-4.98): 4.91 *

Tumbler ID T-1 RPM (28-32) 30

Tumbler ID — RPM (28-32) —

Tumbler ID — RPM (28-32) —

Sample ID	Bottle Number	Original Matrix	ZHE #	Amount of Solids (g)	Volume of Fluid (ml)	Filtration Date/Time {mm/dd/yy 24:00}	Filtrate Added (ml) If Solids <100%	Initial Pressure (psi)	Final Pressure (psi)
FC1455-12	6	SO	6.	10.02	200	12/23/22 08:00	N/A	10	10
FC1233-12	1	|	9.	10.03	|	|	|	|	|
FC1331-1	5	|	8.	10.05	|	|	|	|	|
LB	—	—	10.	—	|	|	|	|	|
						QP 12/22/22			

* Fluid pH must be checked with each use

Fluid Lot #: 44267

Filter Lot #: 12166

Syringe Lot #: 220310

Relinquished By: [signature] Date: 12/23/22

Accepted By: [signature] Date: 12/23/22

LM 01/17

tclp zhe sample prep sheet 011817.xls

SGS ACCUTEST - ORLANDO

VOLATILE TCLP SAMPLE PREP SHEET

Analyst CP

Method: 1311TCLP

Scan as: ZHE_**MMDDYY**

Therm. ID: T0614817 Corr. Factor (±°C): 0

OP Batch # OP#94572 Balance ID: 834132615B

Starting Room Temp. (21-25 °C)°C: 22/22 {obs/corr}

Date / Time Tumbling Started: 12/16/22 13:30 {mm/dd/yy 24:00}

Lo/Hi Room Temp. (21-25 °C)°C: 21/21 (obs) 21/21 (corr)

Date / Time Tumbling Finished: 12/17/22 08:00 {mm/dd/yy 24:00}

pH Meter ID: AE50140868 pH Fluid 1 (4.88-4.98): 4.98 *

Tumbler ID T-1 RPM (28-32) 30 Tumbler ID — RPM (28-32) — Tumbler ID — RPM (28-32) —

Sample ID	Bottle Number	Original Matrix	ZHE #	Amount of Solids (g)	Volume of Fluid (ml)	Filtration Date/Time {mm/dd/yy 24:00}	Filtrate Added (ml) If Solids <100%	Initial Pressure (psi)	Final Pressure (psi)
FC1275-1L	3	SO	12.	10.03	200	12/17/22 08:00	NA	10	10
LB	—	—	11.	—	↓	↓	↓	↓	↓

CP 12/17/22

* Fluid pH must be checked with each use

Fluid Lot #: 44266 Filter Lot # 112166 Syringe Lot # 220310

Relinquished By: [signature] Date: 12/17/22 Accepted By: [signature] Date: 12/17/22

LM 01/17

tclp zhe sample prep sheet 011817.xls

SGS -ORLANDO

MSVOA20-5E-ANALYSIS LOG

DATE:	12/27/2022
COLUMN TYPE:	RTXVMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSVOA20-5E
PURGE PRESSURE:	11 PSI
PURGE VOLUME:	5 mL
ANALYST:	Kylie G

METHODS:*	8260
METHOD FILE:	applX12-08-2022.M
CALIB. DATE:	12/8/2022
EM VOLTAGE:	1482V
ACQ. METHOD:	8260VMSVI
BFB RESPONSE:	694350
Run ID:	V5E1632-33

BFB:	VS2676
ICAL/CC:	VS2655, VS2687, VS2692
	VS2693, VS2694, VS2738
ISTD/SUR:	VS2676
ICV/QC:	VS2641, VS2691, VS2695
	VS2696, VS2690, VS2684, VS2739
AFA:	VS2664E

pH LOT: 230320, 230418
KI PAPER LOT: 07062021
Data Processed By:
Kylie G/ JoAnn L/ John M.
Sample ID Verified By:
Kylie G/ JoAnn L
Date verfied: 12/27/2022

Data File	Sample ID	Dil.	Vial #	Matrix	ALS Pos.	Sample Method	Manually Integrated Peaks Rationale, Peak#	pH	CI ?	RR	Comments
5E36296	BLANK	-	-	W	1	8260		-	-	-	✓
5E36297	BFB/CC1617-5	-	-	W	2	8260		-	-	-	Passed autofind; 20uL→ 50mL ✓
5E36298	BS	-	-	W	3	8260		-	-	-	12.5uL→ 40mL ✓
5E36299	CC1617-1	-	-	W	4	8260		-	-	-	1uL→ 100mL; all CCV low peaks present ✓
5E36300	BLANK	-	-	W	5	8260		-	-	-	✓
5E36301	MB	-	-	W	6	8260		-	-	-	ND ✓
5E36302	OP94669-LB 10X	10X	-	W	7	8260	5mL(-) 50mL	6	N	-	ND ✓
5E36303	OP94572-LB 10X	10X	-	W	8	8260	5mL(-) 50mL	6	N	-	ND ✓
5E36304	FC1455-1L 10X	1X	-	W	9	8260	5mL(-) 50mL	6	N	-	ND ✓
5E36305	FC1233-1L 10X	10X	-	W	10	8260	5mL(-) 50mL	6	N	-	ND ✓
5E36306	FC1331-1L 10X	10X	-	W	11	8260	5mL(-) 50mL	6	N	-	✓
5E36307	FC1275-1L	10X	-	W	12	8260	5mL(-) 50mL	6	N	-	✓
5E36308	FC1584-7	1X	1	W	13	8260		1	N	-	ND ✓
5E36309	FC1584-1	1X	2	W	14	8260	AFA	1	N	-	✓
5E36310	FC1584-2	1X	1	W	15	8260	AFA	1	N	-	✓
5E36311	FC1584-3	1X	1	W	16	8260	Bubble>6mm; all vials received; AFA	1	N	-	✓
5E36312	FC1584-4	1X	1	W	17	8260	AFA	1	N	-	✓
5E36313	FC1584-5	1X	3	W	18	8260	AFA	1	N	-	✓
5E36314	FC1584-6	1X	2	W	19	8260	AFA	1	N	-	✓
5E36315	FC1588-1	1X	6	W	20	8260	Bubble>6mm; all vials received; AFA	1	N	-	✓
5E36316	FC1588-2	1X	1	W	21	8260	Bubble>6mm; all vials received; AFA	1	N	-	✓
5E36317	FC1588-3	1X	2	W	22	8260	Bubble>6mm; all vials received; AFA	1	N	-	✓
5E36318	FC144-1LMS 10X	10X	-	W	23	8260	V5E1632; 10mL(-) 100mL	6	N	-	12.5uL→ 50mL ✓
5E36319	FC144-1LMSD 10X	10X	-	W	24	8260	V5E1632; 10mL(-) 100mL	6	N	-	12.5uL→ 50mL ✓
5E36320	FC1588-1MS 5X	5X	2	W	25	8260	V5E1633; 20mL(-) 100mL	1	N	-	12.5uL→ 50mL ✓
5E36321	FC1588-1MSD 5X	5X	2	W	26	8260	V5E1633; 20mL(-) 100mL	1	N	-	12.5uL→ 50mL ✓
5E36322	ECC1617-5	-	-	W	27	8260		-	-	-	20uL→ 50mL ✓
5E36323	MB(AFA)	-	-	W	28	8260		-	-	-	AFA; ND ✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designaete "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous Liquid, and "TCLP" or "SPLP" for Leachate.

Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

Analyst's Signature: KG 12/28/22

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

e-Hardcopy 2.0
Automated Report

Technical Report for

Hydrogeologic, Inc.

FSRA-FDSA/PSBA NS1002; KSC, FL

NS1002.05.08

SGS Job Number: FC1886

Sampling Date: 01/13/23



Report to:

HGL, Inc
2405 N Courtenay Pkwy Suite 203
Merritt Island, FL 32953
drivers@hgl.com

ATTN: Denise Rivers

Total number of pages in report: **341**

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.

Norm Farmer
Technical Director

Client Service contact: Ariel Hartney 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AL, AK, AR, CT, IA, KY, MA, MI. MS, ND, NH, NV, OK, OR, IL, UT, VT, WA, WI, WV

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EHS.US.CustomerCare@sgs.com

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SGS North America Inc.

Sample Summary

Hydrogeologic, Inc.

Job No: FC1886

FSRA-FDSA/PSBA NS1002; KSC, FL
Project No: NS1002.05.08

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC1886-1	01/13/23	07:00	WD	01/13/23	AQ	Trip Blank Water	FDSA-TB-000.0-20230113
FC1886-2	01/13/23	08:20	WD	01/13/23	AQ	Ground Water	FDSA-MW0059-015.0-20230113

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Hydrogeologic, Inc. **Job No:** FC1886

Site: FSRA-FDSA/PSBA NS1002; KSC, FL **Report Date** 1/27/2023 9:53:43 AM

On 01/13/2023, 1 Sample, and 1 Trip Blank were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 2.2 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC1886 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.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V1P3666

- All samples were analyzed within the recommended method holding time.
- Sample FC1987-1MS, FC1987-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ **Batch ID:** V5E1659

- All samples were analyzed within the recommended method holding time.
- Samples FC1990-4MS, FC1990-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recoveries for cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Trichloroethylene are outside control limits. Probable cause is due to matrix interference.
- RPD for MSD for Trichloroethylene is outside control limits for sample FC1990-4MSD. Probable cause is due to sample non-homogeneity.
- V5E1659-MB: Sample was treated with an anti-foaming agent.

SGS North America Inc. - Orlando 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.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

_____

Gabriela Benitez, QA Coordinator *(Signature on File)*

Summary of Hits

Job Number: FC1886
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 01/13/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FC1886-1	**FDSA-TB-000.0-20230113**					
No hits reported in this sample.						
FC1886-2	**FDSA-MW0059-015.0-20230113**					
cis-1,2-Dichloroethylene		250	10	5.0	ug/l	SW846 8260D
trans-1,2-Dichloroethylene		3.4 J	10	5.0	ug/l	SW846 8260D
Trichloroethylene		737	10	5.0	ug/l	SW846 8260D

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-TB-000.0-20230113		
Lab Sample ID:	FC1886-1	**Date Sampled:**	01/13/23
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/13/23
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1P97255.D	1	01/19/23 15:02	JL	n/a	n/a	V1P3666
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	91%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FDSA-MW0059-015.0-20230113		
Lab Sample ID:	FC1886-2	**Date Sampled:**	01/13/23
Matrix:	AQ - Ground Water	**Date Received:**	01/13/23
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E36838.D	10	01/23/23 13:54	JL	n/a	n/a	V5E1659
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	250	10	5.0	2.8	ug/l	
156-60-5	trans-1,2-Dichloroethylene	3.4	10	5.0	2.2	ug/l	J
79-01-6	Trichloroethylene	737	10	5.0	3.5	ug/l	
75-01-4	Vinyl Chloride	5.0 U	10	5.0	4.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS _ OLANDO JOB #: FC1886 PAGE 1 OF 1

SGS - ORLANDO Quote: SKIFF #

Client / Reporting Information

Company Name: Hydrogeologic INC
Address: 2405 N Courtenay Pkwy Suite 203
City: Merritt Is State: Florida Zip: 32953
Project Contact: Denise Rivers Email: drivers@hgl.com
Phone #: 910-233-8460
Sampler(s) Name(s) (Printed)
Sampler 1: William DuHenhaver Sampler 2:

Project Information

Project Name: FSRA / FDSA
Street
City: NASA / KSC State: FL
Project #: NS1002.05.08
Fax #
Client Purchase Order #

Analytical Information

82608, TCE, cis-1,2-DCE, VC, trans-1,2-DCE

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	82608	LAB USE ONLY
1	FDSA-TB-000.0-20230113	1/13	07:00	WD	WW	2		X							X	
2	FDSA-MW0059-015.0-20230113	1/13	08:20	WD	GW	3		X							X	

Turnaround Time (Business days)

Std. 10 Business Days
7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other
Approved By: / Date/Rush Code:
Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

INITIAL ASSESSMENT
LABEL VERIFICATION ZB

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 HGL	01/13/23 11:45	2	3	1/13/23 1620	4 11/13/23 1620
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers: ____ Cooler Temperature (s) Celsius: 2.0 2.8

FC1886: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: FC1886 **Client:** HYDROGEOLOGIC **Project:** FSRA/FDSA

Date / Time Received: 1/13/2023 4:20:00 PM **Delivery Method:** COURIER **Airbill #'s:**

Therm ID: IR 1; **Therm CF:** 0.2; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.0);

Cooler Temps (Corrected) °C: Cooler 1: (2.2);

Cooler Information	Y	N
1. Custody Seals Present	☑	☐
2. Custody Seals Intact	☑	☐
3. Temp criteria achieved	☑	☐
4. Cooler temp verification	IR Gun	
5. Cooler media	Ice (Bag)	

Trip Blank Information	Y	N	N/A
1. Trip Blank present / cooler	☑	☐	☐
2. Trip Blank listed on COC	☑	☐	☐

	W	S	N/A
3. Type Of TB Received	☑	☐	☐

Sample Information	Y	N	N/A
1. Sample labels present on bottles	☑	☐	
2. Samples preserved properly	☑	☐	
3. Sufficient volume/containers recvd for analysis:	☑	☐	
4. Condition of sample	Intact		
5. Sample recvd within HT	☑	☐	
6. Dates/Times/IDs on COC match Sample Label	☑	☐	
7. VOCs have headspace	☐	☑	☐
8. Bottles received for unspecified tests	☐	☑	
9. Compositing instructions clear	☐	☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐	☐	☑
11. % Solids Jar received?	☐	☐	☑
12. Residual Chlorine Present?	☐	☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: NATHANS Date: 1/13/2023 4:20:00 PM Reviewer: _____ Date: _____

QC Evaluation: DOD QSM5.x Limits

Job Number: FC1886
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 01/13/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1P3666	SW846 8260D						
V1P3666-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	120	%	78-123
V1P3666-BS	156-60-5	trans-1,2-Dichloroethylene	BSP	REC	117	%	75-124
V1P3666-BS	79-01-6	Trichloroethylene	BSP	REC	111	%	79-123
V1P3666-BS	75-01-4	Vinyl Chloride	BSP	REC	109	%	58-137
V1P3666-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	103	%	80-119
V1P3666-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	100	%	81-118
V1P3666-BS	2037-26-5	Toluene-D8	BSP	SURR	91	%	89-112
V1P3666-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	92	%	85-114
FC1987-1MS*	156-59-2	cis-1,2-Dichloroethylene	MS	REC	118	%	78-123
FC1987-1MS*	156-60-5	trans-1,2-Dichloroethylene	MS	REC	116	%	75-124
FC1987-1MS*	79-01-6	Trichloroethylene	MS	REC	112	%	79-123
FC1987-1MS*	75-01-4	Vinyl Chloride	MS	REC	106	%	58-137
FC1987-1MS*	1868-53-7	Dibromofluoromethane	MS	SURR	101	%	80-119
FC1987-1MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	100	%	81-118
FC1987-1MS*	2037-26-5	Toluene-D8	MS	SURR	90	%	89-112
FC1987-1MS*	460-00-4	4-Bromofluorobenzene	MS	SURR	90	%	85-114
FC1987-1MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	119	%	78-123
FC1987-1MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	1	%	20
FC1987-1MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	REC	117	%	75-124
FC1987-1MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	RPD	1	%	20
FC1987-1MSD*	79-01-6	Trichloroethylene	MSD	REC	111	%	79-123
FC1987-1MSD*	79-01-6	Trichloroethylene	MSD	RPD	1	%	20
FC1987-1MSD*	75-01-4	Vinyl Chloride	MSD	REC	108	%	58-137
FC1987-1MSD*	75-01-4	Vinyl Chloride	MSD	RPD	2	%	20
FC1987-1MSD*	1868-53-7	Dibromofluoromethane	MSD	SURR	102	%	80-119
FC1987-1MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	101	%	81-118
FC1987-1MSD*	2037-26-5	Toluene-D8	MSD	SURR	91	%	89-112
FC1987-1MSD*	460-00-4	4-Bromofluorobenzene	MSD	SURR	90	%	85-114
V1P3666-MB	1868-53-7	Dibromofluoromethane	MB	SURR	99	%	80-119
V1P3666-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	101	%	81-118
V1P3666-MB	2037-26-5	Toluene-D8	MB	SURR	96	%	89-112
V1P3666-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	97	%	85-114
FC1886-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	98	%	80-119
FC1886-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	107	%	81-118
FC1886-1	2037-26-5	Toluene-D8	SAMP	SURR	96	%	89-112
FC1886-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	91	%	85-114
V5E1659	SW846 8260D						
V5E1659-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	95	%	78-123
V5E1659-BS	156-60-5	trans-1,2-Dichloroethylene	BSP	REC	95	%	75-124
V5E1659-BS	79-01-6	Trichloroethylene	BSP	REC	101	%	79-123

* Sample used for QC is not from job FC1886

QC Evaluation: DOD QSM5.x Limits

Job Number: FC1886
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 01/13/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V5E1659-BS	75-01-4	Vinyl Chloride	BSP	REC	100	%	58-137
V5E1659-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	100	%	80-119
V5E1659-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	110	%	81-118
V5E1659-BS	2037-26-5	Toluene-D8	BSP	SURR	99	%	89-112
V5E1659-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	105	%	85-114
FC1990-4MS*	156-59-2	cis-1,2-Dichloroethylene	MS	REC	125	%	78-123
FC1990-4MS*	156-60-5	trans-1,2-Dichloroethylene	MS	REC	131	%	75-124
FC1990-4MS*	79-01-6	Trichloroethylene	MS	REC	129	%	79-123
FC1990-4MS*	75-01-4	Vinyl Chloride	MS	REC	109	%	58-137
FC1990-4MS*	1868-53-7	Dibromofluoromethane	MS	SURR	100	%	80-119
FC1990-4MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	108	%	81-118
FC1990-4MS*	2037-26-5	Toluene-D8	MS	SURR	98	%	89-112
FC1990-4MS*	460-00-4	4-Bromofluorobenzene	MS	SURR	103	%	85-114
FC1990-4MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	107	%	78-123
FC1990-4MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	15	%	20
FC1990-4MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	REC	113	%	75-124
FC1990-4MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	RPD	15	%	20
FC1990-4MSD*	79-01-6	Trichloroethylene	MSD	REC	106	%	79-123
FC1990-4MSD*	79-01-6	Trichloroethylene	MSD	RPD	20	%	20
FC1990-4MSD*	75-01-4	Vinyl Chloride	MSD	REC	93	%	58-137
FC1990-4MSD*	75-01-4	Vinyl Chloride	MSD	RPD	16	%	20
FC1990-4MSD*	1868-53-7	Dibromofluoromethane	MSD	SURR	101	%	80-119
FC1990-4MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	107	%	81-118
FC1990-4MSD*	2037-26-5	Toluene-D8	MSD	SURR	98	%	89-112
FC1990-4MSD*	460-00-4	4-Bromofluorobenzene	MSD	SURR	103	%	85-114
V5E1659-MB	1868-53-7	Dibromofluoromethane	MB	SURR	101	%	80-119
V5E1659-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	106	%	81-118
V5E1659-MB	2037-26-5	Toluene-D8	MB	SURR	98	%	89-112
V5E1659-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	106	%	85-114
FC1886-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	99	%	80-119
FC1886-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	107	%	81-118
FC1886-2	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112
FC1886-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	106	%	85-114

* Sample used for QC is not from job FC1886

MS Volatiles

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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: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1P3666-MB	1P97245.D	1	01/19/23	JL	n/a	n/a	V1P3666

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

FC1886-1

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

Method Blank Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1659-MB [a]	5E36830.D	1	01/23/23	JL	n/a	n/a	V5E1659

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

FC1886-2

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	106%	83-118%

(a) Sample was treated with an anti-foaming agent.

Blank Spike Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1P3666-BS	1P97241.D	1	01/19/23	JL	n/a	n/a	V1P3666

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

FC1886-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	30.0	120	78-120
156-60-5	trans-1,2-Dichloroethylene	25	29.2	117	76-127
79-01-6	Trichloroethylene	25	27.8	111	81-126
75-01-4	Vinyl Chloride	25	27.2	109	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	91%	85-112%
460-00-4	4-Bromofluorobenzene	92%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1659-BS	5E36827.D	1	01/23/23	JL	n/a	n/a	V5E1659

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

FC1886-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	23.8	95	78-120
156-60-5	trans-1,2-Dichloroethylene	25	23.8	95	76-127
79-01-6	Trichloroethylene	25	25.2	101	81-126
75-01-4	Vinyl Chloride	25	24.9	100	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	110%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	105%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC1987-1MS	1P97283.D	5	01/19/23	JL	n/a	n/a	V1P3666
FC1987-1MSD	1P97284.D	5	01/19/23	JL	n/a	n/a	V1P3666
FC1987-1 [a]	1P97251.D	1	01/19/23	JL	n/a	n/a	V1P3666

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

FC1886-1

CAS No.	Compound	FC1987-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	ND		125	148	118	125	149	119	1	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		125	145	116	125	146	117	1	76-127/17
79-01-6	Trichloroethylene	ND		125	140	112	125	139	111	1	81-126/15
75-01-4	Vinyl Chloride	ND		125	132	106	125	135	108	2	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FC1987-1	Limits
1868-53-7	Dibromofluoromethane	101%	102%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	101%	104%	79-125%
2037-26-5	Toluene-D8	90%	91%	97%	85-112%
460-00-4	4-Bromofluorobenzene	90%	90%	92%	83-118%

(a) Sample was not preserved to a pH < 2.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC1990-4MS [a]	5E36851.D	5	01/23/23	JL	n/a	n/a	V5E1659
FC1990-4MSD [a]	5E36852.D	5	01/23/23	JL	n/a	n/a	V5E1659
FC1990-4	5E36831.D	1	01/23/23	JL	n/a	n/a	V5E1659

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

FC1886-2

CAS No.	Compound	FC1990-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	1.0	U	125	156	125*	125	134	107	15	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.0	U	125	164	131*	125	141	113	15	76-127/17
79-01-6	Trichloroethylene	1.0	U	125	161	129*	125	132	106	20*	81-126/15
75-01-4	Vinyl Chloride	1.0	U	125	136	109	125	116	93	16	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FC1990-4	Limits
1868-53-7	Dibromofluoromethane	100%	101%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	107%	105%	79-125%
2037-26-5	Toluene-D8	98%	98%	98%	85-112%
460-00-4	4-Bromofluorobenzene	103%	103%	105%	83-118%

(a) Sample was treated with an anti-foaming agent.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3655-BFB
Lab File ID: 1P96678.D
Instrument ID: GCMS1P
Injection Date: 12/29/22
Injection Time: 09:43

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	77042	17.9		Pass
75	30.0 - 60.0% of mass 95	222037	51.6		Pass
95	Base peak, 100% relative abundance	430122	100.0		Pass
96	5.0 - 9.0% of mass 95	29650	6.89		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	308074	71.6		Pass
175	5.0 - 9.0% of mass 174	22938	5.33	(7.45) [a]	Pass
176	95.0 - 101.0% of mass 174	297002	69.1	(96.4) [a]	Pass
177	5.0 - 9.0% of mass 176	19191	4.46	(6.46) [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
V1P3655-IC3655	1P96680.D	12/29/22	10:38	00:55	Initial cal 1
V1P3655-IC3655	1P96682.D	12/29/22	11:32	01:49	Initial cal 2
V1P3655-IC3655	1P96684.D	12/29/22	12:04	02:21	Initial cal 3
V1P3655-IC3655	1P96686.D	12/29/22	12:35	02:52	Initial cal 4
V1P3655-ICC3655	1P96690.D	12/29/22	13:38	03:55	Initial cal 5
V1P3655-IC3655	1P96692.D	12/29/22	14:10	04:27	Initial cal 6
V1P3655-IC3655	1P96694.D	12/29/22	14:41	04:58	Initial cal 7
V1P3655-ICV3655	1P96698.D	12/29/22	15:45	06:02	Initial cal verification 5
V1P3655-ICV3655	1P96700.D	12/29/22	16:16	06:33	Initial cal verification 4

Instrument Performance Check (BFB)

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3666-BFB
Lab File ID: 1P97239.D
Instrument ID: GCMS1P
Injection Date: 01/19/23
Injection Time: 10:46

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	54800	18.2		Pass
75	30.0 - 60.0% of mass 95	156677	52.1		Pass
95	Base peak, 100% relative abundance	300501	100.0		Pass
96	5.0 - 9.0% of mass 95	19904	6.62		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	220608	73.4		Pass
175	5.0 - 9.0% of mass 174	16650	5.54	(7.55) [a]	Pass
176	95.0 - 101.0% of mass 174	212586	70.7	(96.4) [a]	Pass
177	5.0 - 9.0% of mass 176	15191	5.06	(7.15) [b]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1P3666-CC3655	1P97239.D	01/19/23	10:46	00:00	Continuing cal 5
V1P3666-BS	1P97241.D	01/19/23	11:17	00:31	Blank Spike
V1P3667-BS	1P97241.D	01/19/23	11:17	00:31	Blank Spike
V1P3666-MB	1P97245.D	01/19/23	12:20	01:34	Method Blank
OP94957-LB	1P97247.D	01/19/23	12:52	02:06	Leachate Blank
FC1785-2L	1P97249.D	01/19/23	13:23	02:37	(used for QC only; not part of job FC1886)
FC1987-1	1P97251.D	01/19/23	13:55	03:09	(used for QC only; not part of job FC1886)
FC1886-1	1P97255.D	01/19/23	15:02	04:16	FDSA-TB-000.0-20230113
ZZZZZZ	1P97257.D	01/19/23	15:33	04:47	(unrelated sample)
ZZZZZZ	1P97259.D	01/19/23	16:04	05:18	(unrelated sample)
ZZZZZZ	1P97261.D	01/19/23	16:36	05:50	(unrelated sample)
ZZZZZZ	1P97263.D	01/19/23	17:07	06:21	(unrelated sample)
ZZZZZZ	1P97265.D	01/19/23	17:39	06:53	(unrelated sample)
ZZZZZZ	1P97267.D	01/19/23	18:10	07:24	(unrelated sample)
ZZZZZZ	1P97271.D	01/19/23	19:13	08:27	(unrelated sample)
ZZZZZZ	1P97273.D	01/19/23	19:44	08:58	(unrelated sample)
ZZZZZZ	1P97277.D	01/19/23	20:47	10:01	(unrelated sample)
FC1785-2LMS	1P97279.D	01/19/23	21:19	10:33	Matrix Spike
FC1785-2LMSD	1P97281.D	01/19/23	21:50	11:04	Matrix Spike Duplicate
FC1987-1MS	1P97283.D	01/19/23	22:21	11:35	Matrix Spike
FC1987-1MSD	1P97284.D	01/19/23	22:47	12:01	Matrix Spike Duplicate
V1P3666-ECC3655	1P97285.D	01/19/23	23:13	12:27	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1647-BFB
Lab File ID: 5E36579.D
Instrument ID: GCMS5E
Injection Date: 01/13/23
Injection Time: 09:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	28405	20.1		Pass
75	30.0 - 60.0% of mass 95	70781	50.1		Pass
95	Base peak, 100% relative abundance	141141	100.0		Pass
96	5.0 - 9.0% of mass 95	9519	6.74		Pass
173	Less than 2.0% of mass 174	1425	1.01	(1.06) [a]	Pass
174	50.0 - 100.0% of mass 95	134309	95.2		Pass
175	5.0 - 9.0% of mass 174	9850	6.98	(7.33) [a]	Pass
176	95.0 - 101.0% of mass 174	130947	92.8	(97.5) [a]	Pass
177	5.0 - 9.0% of mass 176	8582	6.08	(6.55) [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
V5E1647-IC1647	5E36580.D	01/13/23	10:14	00:33	Initial cal 1
V5E1647-IC1647	5E36581.D	01/13/23	10:38	00:57	Initial cal 2
V5E1647-IC1647	5E36582.D	01/13/23	11:01	01:20	Initial cal 3
V5E1647-IC1647	5E36583.D	01/13/23	11:24	01:43	Initial cal 4
V5E1647-ICC1647	5E36584.D	01/13/23	11:47	02:06	Initial cal 5
V5E1647-IC1647	5E36585.D	01/13/23	12:11	02:30	Initial cal 6
V5E1647-IC1647	5E36586.D	01/13/23	12:34	02:53	Initial cal 7
V5E1647-ICV1647	5E36590.D	01/13/23	14:34	04:53	Initial cal verification 5
V5E1647-CC1647	5E36590A.D	01/13/23	14:34	04:53	Continuing cal 5
V5E1647-BS	5E36592.D	01/13/23	15:20	05:39	Blank Spike
V5E1648-BS	5E36592.D	01/13/23	15:20	05:39	Blank Spike
V5E1648-MB	5E36594.D	01/13/23	16:06	06:25	Method Blank
V5E1647-MB	5E36594.D	01/13/23	16:06	06:25	Method Blank
OP94900-LB	5E36595.D	01/13/23	16:30	06:49	Leachate Blank
ZZZZZZ	5E36596.D	01/13/23	16:53	07:12	(unrelated sample)
ZZZZZZ	5E36597.D	01/13/23	17:16	07:35	(unrelated sample)
ZZZZZZ	5E36599.D	01/13/23	18:03	08:22	(unrelated sample)
ZZZZZZ	5E36600.D	01/13/23	18:26	08:45	(unrelated sample)
ZZZZZZ	5E36601.D	01/13/23	18:50	09:09	(unrelated sample)
ZZZZZZ	5E36602.D	01/13/23	19:13	09:32	(unrelated sample)
ZZZZZZ	5E36603.D	01/13/23	19:36	09:55	(unrelated sample)
ZZZZZZ	5E36604.D	01/13/23	19:59	10:18	(unrelated sample)
FC1857-2	5E36605.D	01/13/23	20:23	10:42	(used for QC only; not part of job FC1886)
FC1857-2MS	5E36606.D	01/13/23	20:46	11:05	Matrix Spike

Instrument Performance Check (BFB)

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample:	V5E1647-BFB	**Injection Date:**	01/13/23
Lab File ID:	5E36579.D	**Injection Time:**	09:41
Instrument ID:	GCMS5E		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FC1857-2MSD	5E36607.D	01/13/23	21:09	11:28	Matrix Spike Duplicate
V5E1647-ECC1647	5E36608.D	01/13/23	21:33	11:52	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1659-BFB
Lab File ID: 5E36826.D
Instrument ID: GCMS5E
Injection Date: 01/23/23
Injection Time: 09:15

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	44075	23.5		Pass
75	30.0 - 60.0% of mass 95	103917	55.4		Pass
95	Base peak, 100% relative abundance	187627	100.0		Pass
96	5.0 - 9.0% of mass 95	12507	6.67		Pass
173	Less than 2.0% of mass 174	1441	0.77	(0.90) [a]	Pass
174	50.0 - 100.0% of mass 95	160264	85.4		Pass
175	5.0 - 9.0% of mass 174	12342	6.58	(7.70) [a]	Pass
176	95.0 - 101.0% of mass 174	155571	82.9	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	10727	5.72	(6.90) [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
V5E1659-CC1647	5E36826.D	01/23/23	09:15	00:00	Continuing cal 5
V5E1659-BS	5E36827.D	01/23/23	09:38	00:23	Blank Spike
V5E1659-MB	5E36830.D	01/23/23	10:47	01:32	Method Blank
FC1990-4	5E36831.D	01/23/23	11:11	01:56	(used for QC only; not part of job FC1886)
ZZZZZZ	5E36832.D	01/23/23	11:34	02:19	(unrelated sample)
ZZZZZZ	5E36833.D	01/23/23	11:57	02:42	(unrelated sample)
ZZZZZZ	5E36834.D	01/23/23	12:21	03:06	(unrelated sample)
ZZZZZZ	5E36835.D	01/23/23	12:44	03:29	(unrelated sample)
ZZZZZZ	5E36836.D	01/23/23	13:07	03:52	(unrelated sample)
ZZZZZZ	5E36837.D	01/23/23	13:30	04:15	(unrelated sample)
FC1886-2	5E36838.D	01/23/23	13:54	04:39	FDSA-MW0059-015.0-20230113
ZZZZZZ	5E36839.D	01/23/23	14:17	05:02	(unrelated sample)
ZZZZZZ	5E36840.D	01/23/23	14:40	05:25	(unrelated sample)
ZZZZZZ	5E36841.D	01/23/23	15:03	05:48	(unrelated sample)
ZZZZZZ	5E36842.D	01/23/23	15:27	06:12	(unrelated sample)
ZZZZZZ	5E36843.D	01/23/23	15:50	06:35	(unrelated sample)
ZZZZZZ	5E36844.D	01/23/23	16:13	06:58	(unrelated sample)
ZZZZZZ	5E36845.D	01/23/23	16:37	07:22	(unrelated sample)
ZZZZZZ	5E36846.D	01/23/23	17:00	07:45	(unrelated sample)
ZZZZZZ	5E36847.D	01/23/23	17:23	08:08	(unrelated sample)
ZZZZZZ	5E36848.D	01/23/23	17:46	08:31	(unrelated sample)
ZZZZZZ	5E36849.D	01/23/23	18:09	08:54	(unrelated sample)
ZZZZZZ	5E36850.D	01/23/23	18:33	09:18	(unrelated sample)
FC1990-4MS	5E36851.D	01/23/23	18:56	09:41	Matrix Spike

Instrument Performance Check (BFB)

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample:	V5E1659-BFB	**Injection Date:**	01/23/23
Lab File ID:	5E36826.D	**Injection Time:**	09:15
Instrument ID:	GCMS5E		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FC1990-4MSD	5E36852.D	01/23/23	19:19	10:04	Matrix Spike Duplicate
V5E1659-ECC1647	5E36853.D	01/23/23	19:42	10:27	Ending cal 5

Internal Standard Area Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Check Std:	V1P3666-CC3655	**Injection Date:**	01/19/23
Lab File ID:	1P97239.D	**Injection Time:**	10:46
Instrument ID:	GCMS1P	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	1859671	3.72	1245530	5.64	547598	7.33
Check Std [b]	1121691	3.72	880748	5.64	407244	7.33
Upper Limit [c]	2243382	3.89	1761496	5.81	814488	7.50
Lower Limit [d]	560846	3.55	440374	5.47	203622	7.16

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V1P3666-BS	1159580	3.71	892856	5.64	415733	7.33
V1P3667-BS	1159580	3.71	892856	5.64	415733	7.33
V1P3666-MB	1015921	3.72	760816	5.64	334362	7.33
OP94957-LB	1005172	3.71	756436	5.64	331991	7.33
FC1785-2L	964569	3.71	724597	5.64	324862	7.33
FC1987-1	956469	3.72	713519	5.64	311038	7.33
FC1886-1	928795	3.72	702181	5.64	306412	7.33
ZZZZZZ	900519	3.72	681144	5.64	295324	7.33
ZZZZZZ	904002	3.71	681127	5.64	297832	7.33
ZZZZZZ	903692	3.71	689236	5.64	297365	7.33
ZZZZZZ	871975	3.72	664070	5.64	292600	7.33
ZZZZZZ	874684	3.71	664282	5.64	290304	7.33
ZZZZZZ	884854	3.72	669875	5.64	296289	7.32
ZZZZZZ	879541	3.72	666040	5.64	293910	7.33
ZZZZZZ	864488	3.72	666392	5.64	290777	7.33
ZZZZZZ	900021	3.71	684047	5.64	314387	7.33
FC1785-2LMS	1088832	3.72	842177	5.64	385502	7.33
FC1785-2LMSD	1119018	3.72	872450	5.64	395735	7.33
FC1987-1MS	1152690	3.71	899073	5.64	419923	7.33
FC1987-1MSD	1141536	3.71	879935	5.64	413862	7.33
V1P3666-ECC3655	1166249	3.71	899574	5.63	427176	7.33

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: V1P3655-ICC3655 1P96690.D 12/29/22 13:38
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Internal Standard Area Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Check Std:	V5E1659-CC1647	**Injection Date:**	01/23/23
Lab File ID:	5E36826.D	**Injection Time:**	09:15
Instrument ID:	GCMS5E	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	724207	8.95	542125	12.11	319959	14.47
Check Std [b]	831557	8.95	649454	12.11	390414	14.47
Upper Limit [c]	1663114	9.12	1298908	12.28	780828	14.64
Lower Limit [d]	415779	8.78	324727	11.94	195207	14.30

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5E1659-BS	818439	8.95	639112	12.11	376870	14.47
V5E1659-MB [e]	763658	8.95	598083	12.11	338295	14.47
FC1990-4	746355	8.95	581681	12.11	331370	14.47
ZZZZZZ	749817	8.95	584630	12.11	332778	14.47
ZZZZZZ	730078	8.95	574016	12.11	328487	14.47
ZZZZZZ	724546	8.95	568371	12.11	321959	14.47
ZZZZZZ	719213	8.95	565868	12.11	321261	14.47
ZZZZZZ	718778	8.95	567547	12.11	337098	14.47
ZZZZZZ	741864	8.95	589256	12.11	339692	14.47
FC1886-2	738802	8.95	579143	12.11	327848	14.47
ZZZZZZ	712616	8.95	561952	12.11	316283	14.47
ZZZZZZ	722810	8.95	562599	12.11	324256	14.47
ZZZZZZ	721776	8.95	570629	12.11	322838	14.47
ZZZZZZ	714861	8.95	561136	12.11	316603	14.47
ZZZZZZ	733791	8.95	562329	12.11	315686	14.47
ZZZZZZ	705713	8.95	548639	12.11	313127	14.47
ZZZZZZ	705756	8.95	555215	12.11	317674	14.47
ZZZZZZ	714439	8.95	560139	12.11	315592	14.47
ZZZZZZ	708459	8.95	557288	12.11	310149	14.47
ZZZZZZ	692088	8.95	548519	12.11	307479	14.47
ZZZZZZ	699812	8.95	552273	12.11	311760	14.47
ZZZZZZ	741429	8.95	574499	12.11	318308	14.47
FC1990-4MS [e]	758162	8.95	596043	12.11	359182	14.47
FC1990-4MSD [e]	774025	8.95	612437	12.11	367510	14.47
V5E1659-ECC164	783661	8.95	625801	12.11	373831	14.47

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: V5E1647-ICC1647 5E36584.D 01/13/23 11:47
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.

Internal Standard Area Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Check Std:	V5E1659-CC1647	**Injection Date:**	01/23/23
Lab File ID:	5E36826.D	**Injection Time:**	09:15
Instrument ID:	GCMS5E	**Method:**	SW846 8260D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT

(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
(e) Sample was treated with an anti-foaming agent.

Surrogate Recovery Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FC1886-1	1P97255.D	98	107	96	91
FC1886-2	5E36838.D	99	107	98	106
FC1987-1MS	1P97283.D	101	100	90	90
FC1987-1MSD	1P97284.D	102	101	91	90
FC1990-4MS	5E36851.D	100	108	98	103
FC1990-4MSD	5E36852.D	101	107	98	103
V1P3666-BS	1P97241.D	103	100	91	92
V1P3666-MB	1P97245.D	99	101	96	97
V5E1659-BS	5E36827.D	100	110	99	105
V5E1659-MB	5E36830.D	101	106	98	106

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-118%
S2 = 1,2-Dichloroethane-D4	79-125%
S3 = Toluene-D8	85-112%
S4 = 4-Bromofluorobenzene	83-118%

Initial Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3655-ICC3655
Lab FileID: 1P96690.D

Response Factor Report MSVOA13

Method : C:\msdchem\1\MET...V1P_2022-12-29.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

Calibration Files
1 =1P96680.D 2 =1P96682.D 3 =1P96684.D 4 =1P96686.D
5 =1P96690.D 6 =1P96692.D 7 =1P96694.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.237	0.179	0.148	0.180	0.162	0.156	0.166	0.175	16.77
---- Linear regr., Force(0,0) ---- Coefficient = 0.9974									
Response Ratio = 0.00000 + 0.16381 *A									
3)P Chloromethane	0.225	0.169	0.146	0.177	0.170	0.170	0.171	0.176	13.64
4) 1,3-butadiene	0.212	0.138	0.114	0.107	0.105	0.099	0.100	0.125	32.46
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9983									
Response Ratio = 0.00000 + 0.11496 *A + -0.00881 *A^2									
5)C Vinyl Chloride	0.236	0.170	0.157	0.182	0.169	0.173	0.173	0.180	14.29
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9989									
Response Ratio = 0.00000 + 0.17255 *A + 0.00036 *A^2									
6) Bromomethane	0.159	0.121	0.099	0.106	0.098	0.093	0.088	0.109	22.34
---- Linear regr., Force(0,0) ---- Coefficient = 0.9962									
Response Ratio = 0.00000 + 0.09422 *A									
7) Chloroethane	0.124	0.081	0.077	0.075	0.064	0.054		0.079	30.39
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9980									
Response Ratio = 0.00000 + 0.08420 *A + -0.02190 *A^2									
8) Trichlorofluorome	0.360	0.280	0.238	0.266	0.231	0.186		0.260	22.48
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9964									
Response Ratio = 0.00000 + 0.28775 *A + -0.07157 *A^2									
9) Ethyl Ether	0.197	0.178	0.168	0.165	0.169	0.165	0.150	0.170	8.47
10) Ethanol	0.008	0.006	0.004	0.004	0.004	0.003	0.003	0.005	38.75
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9941									
Response Ratio = 0.00000 + 0.00462 *A + -0.00005 *A^2									
11) 1,2-Dichlorotrifl	0.218	0.194	0.192	0.194	0.204	0.196	0.192	0.199	4.90
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996									
Response Ratio = 0.00000 + 0.20070 *A + -0.00394 *A^2									
12)C 1,1-Dichloroethen	0.237	0.241	0.237	0.246	0.258	0.244	0.245	0.244	2.91
13) Freon 113	0.140	0.146	0.148	0.151	0.149	0.153	0.160	0.150	4.27
14) Carbon Disulfide	0.461	0.428	0.414	0.422	0.448	0.443	0.446	0.437	3.78
15) Iodomethane	0.139	0.150	0.153	0.160	0.167	0.170	0.165	0.158	6.92
16) Acrolein	0.095	0.054	0.065	0.058	0.060	0.059		0.065	23.12
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9977									
Response Ratio = 0.00000 + 0.06147 *A + -0.00038 *A^2									
17) Allyl chloride	0.297	0.265	0.221	0.246	0.244	0.228	0.229	0.247	10.68
18) Methylene Chlorid	0.636	0.308	0.266	0.236	0.218	0.202	0.199	0.295	52.57
---- Linear regr., Force(0,0) ---- Coefficient = 0.9978									

Initial Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3655-ICC3655
Lab FileID: 1P96690.D

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               Response Ratio = 0.00000 + 0.21320 *A

 19)  Acetone           0.145 0.114 0.105 0.106 0.109 0.103 0.097 0.111  14.20
 20)  Methyl acetate    0.258 0.231 0.239 0.235 0.250 0.239 0.236 0.241   3.96
 21)  trans-1,2-Dichlor 0.231 0.237 0.239 0.246 0.257 0.250 0.253 0.245   3.81
 22)  Hexane            0.159 0.137 0.137 0.142 0.135 0.128 0.131 0.139   7.32
 23)  Methyl Tert Butyl 0.583 0.543 0.559 0.569 0.610 0.611 0.611 0.584   4.78
 24)  Tert Butyl Alcoho 0.064 0.053 0.054 0.051 0.055 0.053 0.049 0.054   8.64
 25)  Acetonitrile      0.060 0.054 0.048 0.047 0.049 0.047 0.047 0.050   9.90
 26)  Di-isopropyl ethe 0.590 0.545 0.550 0.561 0.590 0.571 0.563 0.567   3.13
 27)  Chloroprene       0.739 0.933 0.810 0.816 0.827 0.805 0.776 0.815   7.34
 28)P 1,1-Dichloroethan 0.305 0.301 0.306 0.320 0.331 0.323 0.322 0.315   3.56
 29)  Acrylonitrile     0.092 0.131 0.108 0.108 0.109 0.105 0.101 0.108  10.83
 30)  ETBE              0.545 0.539 0.555 0.566 0.584 0.581 0.581 0.564   3.25
 31)  Vinyl acetate     0.310 0.469 0.409 0.434 0.434 0.424 0.410 0.413  12.03
 32)  cis-1,2-Dichloroe 0.186 0.178 0.185 0.191 0.202 0.200 0.199 0.192   4.70
 33)  2,2-Dichloropropa 0.258 0.261 0.250 0.271 0.293 0.285 0.294 0.273   6.52
 34)  Bromochloromethan 0.076 0.075 0.081 0.079 0.086 0.082 0.082 0.080   4.47
 35)  Cyclohexane       0.253 0.285 0.275 0.284 0.287 0.270 0.284 0.277   4.43
 36)C Chloroform        0.302 0.315 0.320 0.327 0.344 0.335 0.338 0.326   4.48
 37)  Ethyl acetate     0.230 0.351 0.305 0.311 0.319 0.310 0.297 0.303  12.06
 38)  Tetrahydrofuran   0.177 0.116 0.120 0.120 0.128 0.120 0.114 0.128  17.45
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
              Response Ratio = 0.00000 + 0.12733 *A + -0.00603 *A^2

 39)S Dibromofluorometh 0.202 0.209 0.211 0.214 0.221 0.222 0.223 0.214   3.66
 40)  Carbon Tetrachlor 0.188 0.195 0.190 0.198 0.223 0.218 0.234 0.207   8.75
 41)  1,1,1-Trichloroet 0.242 0.274 0.261 0.276 0.290 0.285 0.292 0.274   6.55
 42)  2-Butanone        0.223 0.210 0.197 0.194 0.197 0.188 0.176 0.198   7.67
 43)  1,1-Dichloroprope 0.235 0.263 0.250 0.259 0.269 0.258 0.265 0.257   4.42
 44)  tert-Butyl format 0.127 0.090 0.118 0.117 0.126 0.135 0.141 0.122  13.65
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.11140 *A + 0.00312 *A^2

 45)  Propionitrile     0.065 0.061 0.054 0.053 0.053 0.051 0.047 0.055  11.25
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.05661 *A + -0.00046 *A^2

 46)  Methacrylonitrile 0.224 0.202 0.184 0.184 0.180 0.172 0.162 0.187  10.84
 47)  Benzene           0.790 0.798 0.789 0.786 0.810 0.785 0.800 0.794   1.12
 48)  TAME              0.552 0.519 0.534 0.547 0.569 0.575 0.575 0.553   3.92
 49)S 1,2-Dichloroethan 0.292 0.291 0.289 0.293 0.282 0.284 0.286 0.288   1.51
 50)  Isobutyl alcohol  0.029 0.030 0.028 0.029 0.029 0.027 0.025 0.028   6.19
 51)  1,2-Dichloroethan 0.281 0.257 0.252 0.250 0.259 0.256 0.259 0.259   3.92
 52)  Tert Amyl Alcohol 0.041 0.041 0.043 0.042 0.045 0.046 0.043 0.043   4.34
 53)  Trichloroethene   0.212 0.197 0.185 0.193 0.201 0.196 0.198 0.197   4.13
 54)  Methylcyclohexane 0.250 0.276 0.263 0.279 0.274 0.265 0.283 0.270   4.19
 55)  Dibromomethane    0.121 0.106 0.108 0.109 0.116 0.114 0.114 0.112   4.67
 56)C 1,2-Dichloropropa 0.193 0.176 0.176 0.182 0.190 0.186 0.184 0.184   3.44
 57)  Bromodichlorometh 0.201 0.192 0.192 0.208 0.225 0.231 0.233 0.212   8.49
 58)  Methyl methacryla 0.231 0.218 0.200 0.229 0.227 0.222 0.217 0.221   4.75
 59)  1,4-Dioxane       0.005 0.005 0.004 0.004 0.004 0.004 0.004 0.004  13.39
 60)  2-Chloroethyl vin 0.206 0.132 0.168 0.154 0.156 0.153 0.150 0.160  14.47
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
              Response Ratio = 0.00000 + 0.15805 *A + -0.00076 *A^2

 61)  cis-1,3-Dichlorop 0.276 0.258 0.266 0.278 0.298 0.299 0.299 0.282   5.99

 62) I   Chlorobenzene-d5      ----------------ISTD--------------------
 63)S Toluene-d8        1.440 1.430 1.399 1.412 1.405 1.408 1.433 1.418   1.12
```

Initial Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3655-ICC3655
Lab FileID: 1P96690.D

```
 64)C Toluene           1.277 1.252 1.207 1.232 1.251 1.239 1.240 1.243   1.72
 65)  2-Nitropropane    0.058 0.045 0.048 0.060 0.073 0.087 0.094 0.067  28.64
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9978
               Response Ratio = 0.00000 + 0.05190 *A + 0.00447 *A^2

 66)  4-Methyl-2-pentan 0.529 0.520 0.499 0.498 0.486 0.471 0.452 0.494   5.39
 67)  trans-1,3-Dichlor 0.349 0.346 0.353 0.378 0.392 0.394 0.395 0.372   5.98
 68)  Tetrachloroethene 0.265 0.274 0.262 0.282 0.296 0.288 0.293 0.280   4.73
 69)  Ethyl methacrylat 0.391 0.442 0.416 0.454 0.441 0.448 0.443 0.434   5.14
 70)  1,1,2-Trichloroet 0.223 0.200 0.205 0.209 0.211 0.208 0.208 0.209   3.30
 71)  Dibromochlorometh 0.169 0.165 0.177 0.200 0.224 0.236 0.245 0.202  16.37
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
               Response Ratio = 0.00000 + 0.18916 *A + 0.02980 *A^2

 72)  1,3-Dichloropropa 0.470 0.443 0.455 0.457 0.469 0.463 0.464 0.460   2.03
 73)  1,2-Dibromoethane 0.262 0.239 0.247 0.256 0.265 0.265 0.267 0.257   4.12
 74)  3,3-dimethyl-1-bu 0.066 0.055 0.073 0.070 0.076 0.077 0.073 0.070  10.98
 75)  2-hexanone        0.506 0.486 0.510 0.500 0.505 0.493 0.464 0.495   3.21
 76)  1-Chlorohexane    0.431 0.367 0.356 0.359 0.357 0.363 0.393 0.375   7.32
 77)C Ethylbenzene      1.267 1.273 1.241 1.284 1.319 1.280 1.285 1.278   1.83
 78)P Chlorobenzene     0.724 0.704 0.696 0.697 0.713 0.706 0.710 0.707   1.37
 79)  1,1,1,2-Tetrachlo 0.206 0.193 0.199 0.216 0.231 0.233 0.237 0.216   8.06
 80)  m,p-Xylene        0.952 0.988 0.967 0.995 1.021 1.018 1.025 0.995   2.82
 81)  o-Xylene          0.988 0.970 0.965 0.967 0.999 1.001 1.010 0.986   1.87
 82)  Styrene           0.666 0.728 0.732 0.788 0.805 0.808 0.812 0.763   7.27
 83)P Bromoform         0.093 0.081 0.090 0.110 0.128 0.140 0.147 0.113  22.98
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9980
               Response Ratio = 0.00000 + 0.09970 *A + 0.02531 *A^2

 84)  Isopropylbenzene  1.102 1.141 1.110 1.173 1.210 1.194 1.212 1.163   3.95

 85) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 86)S 4-Bromofluorobenz 0.776 0.777 0.792 0.794 0.832 0.825 0.822 0.803   2.92
 87)  cis-1,4-Dichloro- 0.328 0.306 0.284 0.301 0.304 0.310 0.313 0.307   4.34
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
               Response Ratio = 0.00000 + 0.29589 *A + 0.00900 *A^2

 88)  n-Propylbenzene   2.880 2.942 2.918 2.940 3.106 2.988 3.030 2.972   2.57
 89)  Bromobenzene      0.590 0.592 0.590 0.594 0.643 0.628 0.628 0.609   3.72
 90)P 1,1,2,2-Tetrachlo 0.821 0.781 0.823 0.790 0.831 0.828 0.818 0.813   2.40
 91)  1,3,5-Trimethylbe 2.012 2.064 2.039 2.035 2.153 2.104 2.151 2.080   2.74
 92)  2-Chlorotoluene   1.884 1.745 1.757 1.725 1.818 1.773 1.790 1.784   3.00
 93)  trans-1,4-Dichlor 0.305 0.291 0.287 0.288 0.315 0.317 0.318 0.303   4.61
 94)  1,2,3-Trichloropr 0.327 0.296 0.301 0.292 0.305 0.298 0.296 0.302   3.91
 95)  Cyclohexanone     0.056 0.063 0.053 0.045 0.049 0.046 0.042 0.051  14.27
 96)  4-Chlorotoluene   1.931 1.827 1.811 1.782 1.890 1.861 1.868 1.853   2.72
 97)  tert-Butylbenzene 1.145 1.136 1.114 1.122 1.180 1.160 1.177 1.148   2.25
 98)  a-Methyl styrene                                                0.000  -1.00
 99)  1,2,4-Trimethylbe 1.925 1.933 1.911 1.918 2.019 2.026 2.075 1.973   3.34
100)  Pentachloroethane 0.222 0.236 0.220 0.270 0.296 0.311 0.318 0.268  15.69
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
               Response Ratio = 0.00000 + 0.25351 *A + 0.03522 *A^2

101)  sec-Butylbenzene  2.215 2.228 2.255 2.269 2.387 2.314 2.358 2.289   2.86
102)  4-Isopropyltoluen 1.747 1.869 1.900 1.953 2.055 2.006 2.044 1.939   5.66
103)  1,3-Dichlorobenze 1.172 1.060 1.051 1.066 1.140 1.116 1.106 1.102   4.09
104)  1,2,3-Trimethylbe 1.959 1.900 1.832 1.849 1.972 1.983 2.012 1.930   3.62
105)  1,4-Dichlorobenze 1.214 1.118 1.095 1.094 1.158 1.138 1.146 1.138   3.66
106)  n-Butylbenzene    0.811 0.913 0.883 0.920 0.945 0.948 0.983 0.915   6.06
107)  Benzyl Chloride   0.165 0.208 0.210 0.258 0.307 0.321 0.331 0.257  25.16
```

Initial Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3655-ICC3655
Lab FileID: 1P96690.D

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9973
Response Ratio = 0.00000 + 0.24381 *A + 0.04756 *A^2

108)	1,2-Dichlorobenze	1.014	1.002	0.999	1.010	1.068	1.054	1.062	1.030	2.93
109)	1,2-Dibromo-3-Chl	0.178	0.168	0.165	0.177	0.205	0.223	0.226	0.192	13.50
110)	Hexachlorobutadie	0.184	0.202	0.191	0.193	0.217	0.222	0.228	0.205	8.32
111)	1,2,4-Trichlorobe	0.545	0.503	0.508	0.513	0.576	0.610	0.630	0.555	9.27
112)	Naphthalene	1.863	1.763	1.818	1.874	2.107	2.229	2.305	1.994	10.85
113)	1,2,3-Trichlorobe	0.523	0.478	0.480	0.490	0.547	0.589	0.599	0.530	9.54

(#) = Out of Range

V1P_2022-12-29.M Sat Dec 31 09:26:36 2022

Initial Calibration Verification

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3655-ICV3655
Lab FileID: 1P96698.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2022-12-29\1P96698.D Vial: 12
Acq On : 29 Dec 2022 3:45 pm Operator: joannel
Sample : ICV3655-5 Inst : MSVOA13
Misc : MS52806,V1P3655,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V1P_2022-12-29.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Dec 29 16:53:50 2022
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	101	0.00	3.71
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane			NA			
			AvgRF	CCRF	%Dev			
3	P	Chloromethane	0.176	0.143	18.8	85	0.00	1.25
			Amount	Calc.	%Drift			
4		1,3-butadiene	40.000	60.862	-52.2#	153	0.00	1.31
5	C	Vinyl Chloride	40.000	33.364	16.6	86	0.01	1.31
6		Bromomethane			NA			
7		Chloroethane			NA			
8		Trichlorofluoromethane			NA			
			AvgRF	CCRF	%Dev			
9		Ethyl Ether	0.170	0.145	14.7	87	0.00	1.87
			Amount	Calc.	%Drift			
10		Ethanol	800.000	623.417	22.1#	83	0.00	1.96
11		1,2-Dichlorotrifluoroetha			NA			
			AvgRF	CCRF	%Dev			
12	C	1,1-Dichloroethene	0.244	0.217	11.1	86	0.00	1.97
13		Freon 113	0.150	0.132	12.0	90	0.00	2.00
14		Carbon Disulfide	0.437	0.426	2.5	96	0.00	1.99
15		Iodomethane	0.158	0.143	9.5	87	0.00	2.05
			Amount	Calc.	%Drift			
16		Acrolein	200.000	146.324	26.8#	74	0.00	2.15
			AvgRF	CCRF	%Dev			
17		Allyl chloride	0.247	0.222	10.1	92	0.00	2.24
			Amount	Calc.	%Drift			
18		Methylene Chloride	40.000	35.496	11.3	88	0.00	2.30
			AvgRF	CCRF	%Dev			
19		Acetone	0.111	0.093	16.2	86	0.00	2.31
20		Methyl acetate	0.241	0.223	7.5	90	0.00	2.39
21		trans-1,2-Dichloroethene	0.245	0.222	9.4	88	0.00	2.40
22		Hexane	0.139	0.119	14.4	89	0.00	2.46

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Sample: V1P3655-ICV3655
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23		Methyl Tert Butyl Ether	0.584	0.531	9.1	88	0.00	2.46
24		Tert Butyl Alcohol	0.054	0.049	9.3	91	0.00	2.51
25		Acetonitrile	0.050	0.041	18.0	85	0.00	2.55
26		Di-isopropyl ether	0.567	0.516	9.0	89	0.00	2.68
27		Chloroprene	0.815	0.763	6.4	93	0.00	2.72
28	P	1,1-Dichloroethane	0.315	0.293	7.0	90	0.00	2.73
29		Acrylonitrile	0.108	0.099	8.3	92	0.00	2.73
30		ETBE	0.564	0.501	11.2	87	0.00	2.88
31		Vinyl acetate	0.413	0.432	-4.6	101	0.00	2.86
32		cis-1,2-Dichloroethene	0.192	0.177	7.8	88	0.00	3.02
33		2,2-Dichloropropane	0.273	0.230	15.8	80	0.00	3.08
34		Bromochloromethane	0.080	0.077	3.8	91	0.00	3.12
35		Cyclohexane	0.277	0.247	10.8	87	0.00	3.16
36	C	Chloroform	0.326	0.296	9.2	87	0.00	3.17
37		Ethyl acetate	0.303	0.290	4.3	92	0.00	3.22
			Amount	Calc.	%Drift			
38		Tetrahydrofuran	40.000	36.488	8.8	89	0.00	3.25
			AvgRF	CCRF	%Dev			
39	S	Dibromofluoromethane	0.214	0.220	-2.8	101	0.00	3.26
40		Carbon Tetrachloride	0.207	0.193	6.8	88	0.00	3.26
41		1,1,1-Trichloroethane	0.274	0.246	10.2	86	0.00	3.29
42		2-Butanone	0.198	0.164	17.2	84	0.00	3.31
43		1,1-Dichloropropene	0.257	0.221	14.0	83	0.00	3.36
			Amount	Calc.	%Drift			
44		tert-Butyl formate	200.000	136.079	32.0#	66	0.00	3.41
45		Propionitrile	400.000	329.594	17.6	85	0.00	3.46
			AvgRF	CCRF	%Dev			
46		Methacrylonitrile	0.187	0.155	17.1	87	0.00	3.48
47		Benzene	0.794	0.690	13.1	86	0.00	3.49
48		TAME	0.553	0.495	10.5	88	0.00	3.56
49	S	1,2-Dichloroethane-d4	0.288	0.287	0.3	103	0.00	3.55
50		Isobutyl alcohol	0.028	0.024	14.3	84	0.00	3.59
51		1,2-Dichloroethane	0.259	0.221	14.7	87	0.00	3.58
52		Tert Amyl Alcohol	0.043	0.040	7.0	90	0.00	3.65
53		Trichloroethene	0.197	0.173	12.2	88	0.00	3.82
54		Methylcyclohexane	0.270	0.241	10.7	89	0.00	3.84
55		Dibromomethane	0.112	0.099	11.6	86	0.00	4.04
56	C	1,2-Dichloropropane	0.184	0.155	15.8	83	0.00	4.11
57		Bromodichloromethane	0.212	0.201	5.2	90	0.00	4.14
58		Methyl methacrylate	0.221	0.200	9.5	89	0.00	4.23
59		1,4-Dioxane	0.004	0.004	0.0	94	0.00	4.26
			Amount	Calc.	%Drift			
60		2-Chloroethyl vinyl ether	200.000	178.523	10.7	90	0.00	4.47
			AvgRF	CCRF	%Dev			
61		cis-1,3-Dichloropropene	0.282	0.254	9.9	86	0.00	4.52
62	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00	5.64
63	S	Toluene-d8	1.418	1.413	0.4	101	0.00	4.64
64	C	Toluene	1.243	1.081	13.0	87	0.00	4.68
			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	181.514	9.2	84	0.00	4.77
			AvgRF	CCRF	%Dev			

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66		4-Methyl-2-pentanone	0.494	0.407	17.6	84	0.00	4.89
67		trans-1,3-Dichloropropene	0.372	0.363	2.4	93	0.00	4.92
68		Tetrachloroethene	0.280	0.257	8.2	87	0.00	4.93
69		Ethyl methacrylate	0.434	0.370	14.7	84	0.00	5.03
70		1,1,2-Trichloroethane	0.209	0.188	10.0	89	0.00	5.02
		----------	Amount	Calc.	%Drift	----------		
71		Dibromochloromethane	40.000	36.655	8.4	86	0.00	5.14
		----------	AvgRF	CCRF	%Dev	----------		
72		1,3-Dichloropropane	0.460	0.388	15.7	83	0.00	5.19
73		1,2-Dibromoethane	0.257	0.237	7.8	89	0.00	5.29
74		3,3-dimethyl-1-butanol	0.070	0.064	8.6	84	0.00	5.43
75		2-hexanone	0.495	0.423	14.5	84	0.00	5.43
76		1-Chlorohexane	0.375	0.326	13.1	91	0.00	5.64
77	C	Ethylbenzene	1.278	1.138	11.0	86	0.00	5.68
78	P	Chlorobenzene	0.707	0.627	11.3	88	0.00	5.65
79		1,1,1,2-Tetrachloroethane	0.216	0.205	5.1	89	0.00	5.70
80		m,p-Xylene	0.995	0.887	10.9	87	0.00	5.78
81		o-Xylene	0.986	0.903	8.4	91	0.00	6.07
82		Styrene	0.763	0.715	6.3	89	0.00	6.10
		----------	Amount	Calc.	%Drift	----------		
83	P	Bromoform	40.000	39.269	1.8	92	0.00	6.11
		----------	AvgRF	CCRF	%Dev	----------		
84		Isopropylbenzene	1.163	1.062	8.7	88	0.00	6.30
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	7.33
86	S	4-Bromofluorobenzene	0.803	0.841	-4.7	102	0.00	6.49
		----------	Amount	Calc.	%Drift	----------		
87		cis-1,4-Dichloro-2-butene		----------	NA ----------			
		----------	AvgRF	CCRF	%Dev	----------		
88		n-Propylbenzene	2.972	2.710	8.8	88	0.00	6.61
89		Bromobenzene	0.609	0.548	10.0	86	0.00	6.57
90	P	1,1,2,2-Tetrachloroethane	0.813	0.741	8.9	90	0.00	6.63
91		1,3,5-Trimethylbenzene	2.080	1.863	10.4	87	0.00	6.75
92		2-Chlorotoluene	1.784	1.606	10.0	89	0.00	6.71
93		trans-1,4-Dichloro-2-Bute	0.303	0.288	5.0	92	0.00	6.75
94		1,2,3-Trichloropropane	0.302	0.256	15.2	84	0.00	6.72
95		Cyclohexanone	0.051	0.049	3.9	99	0.00	6.75
96		4-Chlorotoluene	1.853	1.693	8.6	90	0.00	6.83
97		tert-Butylbenzene	1.148	1.023	10.9	87	0.00	6.99
98		a-Methyl styrene	0.000	0.000	0.0	105	0.00	7.13
99		1,2,4-Trimethylbenzene	1.973	1.817	7.9	90	0.00	7.04
		----------	Amount	Calc.	%Drift	----------		
100		Pentachloroethane	40.000	37.505	6.2	89	0.00	6.99
		----------	AvgRF	CCRF	%Dev	----------		
101		sec-Butylbenzene	2.289	2.165	5.4	91	0.00	7.13
102		4-Isopropyltoluene	1.939	1.867	3.7	91	0.00	7.24
103		1,3-Dichlorobenzene	1.102	1.025	7.0	90	0.00	7.27
104		1,2,3-Trimethylbenzene	1.930	1.868	3.2	95	0.00	7.37
105		1,4-Dichlorobenzene	1.138	1.030	9.5	89	0.00	7.34
106		n-Butylbenzene	0.915	0.802	12.3	85	0.00	7.56
		----------	Amount	Calc.	%Drift	----------		

Initial Calibration Verification

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3655-ICV3655
Lab FileID: 1P96698.D

107	Benzyl Chloride	40.000	37.975	5.1	87	0.00	7.51
	----------	AvgRF	CCRF	%Dev	----------		
108	1,2-Dichlorobenzene	1.030	0.962	6.6	91	0.00	7.65
109	1,2-Dibromo-3-Chloropropa	0.192	0.173	9.9	85	0.00	8.20
110	Hexachlorobutadiene	0.205	0.191	6.8	89	0.00	8.69
111	1,2,4-Trichlorobenzene	0.555	0.528	4.9	92	0.00	8.68
112	Naphthalene	1.994	1.878	5.8	90	0.00	8.88
113	1,2,3-Trichlorobenzene	0.530	0.505	4.7	93	0.00	9.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1P96690.D V1P_2022-12-29.M Sat Dec 31 09:25:46 2022

Initial Calibration Verification

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3655-ICV3655
Lab FileID: 1P96700.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2022-12-29\1P96700.D Vial: 13
Acq On : 29 Dec 2022 4:16 pm Operator: joannel
Sample : ICV3655-4 Inst : MSVOA13
Misc : MS52806,V1P3655,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V1P_2022-12-29.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Dec 29 16:53:50 2022
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	102	0.00	3.72
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	25.000	26.088	-4.4	97	0.00	1.13
			AvgRF	CCRF	%Dev			
3	P	Chloromethane			NA			
			Amount	Calc.	%Drift			
4		1,3-butadiene			NA			
5	C	Vinyl Chloride			NA			
6		Bromomethane	25.000	24.896	0.4	90	0.00	1.50
7		Chloroethane	25.000	23.327	6.7	93	0.00	1.58
8		Trichlorofluoromethane	25.000	27.934	-11.7	107	0.00	1.67
			AvgRF	CCRF	%Dev			
9		Ethyl Ether			NA			
			Amount	Calc.	%Drift			
10		Ethanol			NA			
11		1,2-Dichlorotrifluoroetha	25.000	23.590	5.6	99	0.00	1.97
			AvgRF	CCRF	%Dev			
12	C	1,1-Dichloroethene			NA			
13		Freon 113			NA			
14		Carbon Disulfide			NA			
15		Iodomethane			NA			
			Amount	Calc.	%Drift			
16		Acrolein			NA			
			AvgRF	CCRF	%Dev			
17		Allyl chloride			NA			
			Amount	Calc.	%Drift			
18		Methylene Chloride			NA			
			AvgRF	CCRF	%Dev			
19		Acetone			NA			
20		Methyl acetate			NA			
21		trans-1,2-Dichloroethene			NA			
22		Hexane			NA			

Initial Calibration Verification

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3655-ICV3655
Lab FileID: 1P96700.D

23		Methyl Tert Butyl Ether		----------NA----------					
24		Tert Butyl Alcohol		----------NA----------					
25		Acetonitrile		----------NA----------					
26		Di-isopropyl ether		----------NA----------					
27		Chloroprene		----------NA----------					
28	P	1,1-Dichloroethane		----------NA----------					
29		Acrylonitrile		----------NA----------					
30		ETBE		----------NA----------					
31		Vinyl acetate		----------NA----------					
32		cis-1,2-Dichloroethene		----------NA----------					
33		2,2-Dichloropropane		----------NA----------					
34		Bromochloromethane		----------NA----------					
35		Cyclohexane		----------NA----------					
36	C	Chloroform		----------NA----------					
37		Ethyl acetate		----------NA----------					
		----------	Amount	Calc.	%Drift	----------			
38		Tetrahydrofuran		----------NA----------					
		----------	AvgRF	CCRF	%Dev	----------			
39	S	Dibromofluoromethane	0.214	0.224	-4.7	107	0.00	3.26	
40		Carbon Tetrachloride		----------NA----------					
41		1,1,1-Trichloroethane		----------NA----------					
42		2-Butanone		----------NA----------					
43		1,1-Dichloropropene		----------NA----------					
		----------	Amount	Calc.	%Drift	----------			
44		tert-Butyl formate		----------NA----------					
45		Propionitrile		----------NA----------					
		----------	AvgRF	CCRF	%Dev	----------			
46		Methacrylonitrile		----------NA----------					
47		Benzene		----------NA----------					
48		TAME		----------NA----------					
49	S	1,2-Dichloroethane-d4	0.288	0.285	1.0	99	0.00	3.55	
50		Isobutyl alcohol		----------NA----------					
51		1,2-Dichloroethane		----------NA----------					
52		Tert Amyl Alcohol		----------NA----------					
53		Trichloroethene		----------NA----------					
54		Methylcyclohexane		----------NA----------					
55		Dibromomethane		----------NA----------					
56	C	1,2-Dichloropropane		----------NA----------					
57		Bromodichloromethane		----------NA----------					
58		Methyl methacrylate		----------NA----------					
59		1,4-Dioxane		----------NA----------					
		----------	Amount	Calc.	%Drift	----------			
60		2-Chloroethyl vinyl ether		----------NA----------					
		----------	AvgRF	CCRF	%Dev	----------			
61		cis-1,3-Dichloropropene		----------NA----------					
62	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	5.64	
63	S	Toluene-d8	1.418	1.412	0.4	102	0.00	4.65	
64	C	Toluene		----------NA----------					
		----------	Amount	Calc.	%Drift	----------			
65		2-Nitropropane		----------NA----------					
		----------	AvgRF	CCRF	%Dev	----------			

Initial Calibration Verification

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3655-ICV3655
Lab FileID: 1P96700.D

66		4-Methyl-2-pentanone			NA				
67		trans-1,3-Dichloropropene			NA				
68		Tetrachloroethene			NA				
69		Ethyl methacrylate			NA				
70		1,1,2-Trichloroethane			NA				
			Amount	Calc.	%Drift				
71		Dibromochloromethane			NA				
			AvgRF	CCRF	%Dev				
72		1,3-Dichloropropane			NA				
73		1,2-Dibromoethane			NA				
74		3,3-dimethyl-1-butanol			NA				
75		2-hexanone			NA				
76		1-Chlorohexane			NA				
77	C	Ethylbenzene			NA				
78	P	Chlorobenzene			NA				
79		1,1,1,2-Tetrachloroethane			NA				
80		m,p-Xylene			NA				
81		o-Xylene			NA				
82		Styrene			NA				
			Amount	Calc.	%Drift				
83	P	Bromoform			NA				
			AvgRF	CCRF	%Dev				
84		Isopropylbenzene			NA				
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00	7.33	
86	S	4-Bromofluorobenzene	0.803	0.839	-4.5	104	0.00	6.49	
			Amount	Calc.	%Drift				
87		cis-1,4-Dichloro-2-butene	25.000	21.675	13.3	85	0.00	6.52	
			AvgRF	CCRF	%Dev				
88		n-Propylbenzene			NA				
89		Bromobenzene			NA				
90	P	1,1,2,2-Tetrachloroethane			NA				
91		1,3,5-Trimethylbenzene			NA				
92		2-Chlorotoluene			NA				
93		trans-1,4-Dichloro-2-Bute			NA				
94		1,2,3-Trichloropropane			NA				
95		Cyclohexanone			NA				
96		4-Chlorotoluene			NA				
97		tert-Butylbenzene			NA				
98		a-Methyl styrene	0.000	0.000	0.0	139	0.00	7.13	
99		1,2,4-Trimethylbenzene			NA				
			Amount	Calc.	%Drift				
100		Pentachloroethane			NA				
			AvgRF	CCRF	%Dev				
101		sec-Butylbenzene			NA				
102		4-Isopropyltoluene			NA				
103		1,3-Dichlorobenzene			NA				
104		1,2,3-Trimethylbenzene			NA				
105		1,4-Dichlorobenzene			NA				
106		n-Butylbenzene			NA				
			Amount	Calc.	%Drift				

Initial Calibration Verification

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3655-ICV3655
Lab FileID: 1P96700.D

107	Benzyl Chloride		----------	NA	----------
		AvgRF	CCRF	%Dev	
108	1,2-Dichlorobenzene		----------	NA	----------
109	1,2-Dibromo-3-Chloropropa		----------	NA	----------
110	Hexachlorobutadiene		----------	NA	----------
111	1,2,4-Trichlorobenzene		----------	NA	----------
112	Naphthalene		----------	NA	----------
113	1,2,3-Trichlorobenzene		----------	NA	----------

(#) = Out of Range SPCC's out = 4 CCC's out = 6
1P96686.D V1P_2022-12-29.M Sat Dec 31 09:26:21 2022

Continuing Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3666-CC3655
Lab FileID: 1P97239.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2023-1-19\1P97239.D Vial: 2
Acq On : 19 Jan 2023 10:46 am Operator: joannel
Sample : CC3655-5 Inst : MSVOA13
Misc : MS53143,V1P3666,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V1P_2022-12-29.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Dec 29 16:53:50 2022
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	60	0.00	3.72
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	40.000	37.742	5.6	58	-0.01	1.12
			AvgRF	CCRF	%Dev			
3	P	Chloromethane	0.176	0.178	-1.1	63	0.00	1.25
			Amount	Calc.	%Drift			
4		1,3-butadiene	40.000	5.601	86.0#	9	0.00	1.32
5	C	Vinyl Chloride	40.000	47.462	-18.7	73	0.00	1.30
6		Bromomethane	40.000	64.095	-60.2#	93	0.00	1.50
7		Chloroethane	40.000	80.152	-100.4#	93	0.00	1.58
8		Trichlorofluoromethane	40.000	75.292	-88.2#	88	0.00	1.67
			AvgRF	CCRF	%Dev			
9		Ethyl Ether	0.170	0.229	-34.7#	81	0.00	1.87
			Amount	Calc.	%Drift			
10		Ethanol	800.000	982.100	-22.8#	72	0.01	1.97
11		1,2-Dichlorotrifluoroetha	40.000	48.003	-20.0#	70	0.00	1.97
			AvgRF	CCRF	%Dev			
12	C	1,1-Dichloroethene	0.244	0.269	-10.2	63	0.00	1.97
13		Freon 113	0.150	0.170	-13.3	69	0.00	2.01
14		Carbon Disulfide	0.437	0.490	-12.1	66	0.00	2.00
15		Iodomethane	0.158	0.151	4.4	55	0.00	2.05
			Amount	Calc.	%Drift			
16		Acrolein	200.000	270.152	-35.1#	80	0.00	2.15
			AvgRF	CCRF	%Dev			
17		Allyl chloride	0.247	0.287	-16.2	71	0.00	2.24
			Amount	Calc.	%Drift			
18		Methylene Chloride	40.000	45.307	-13.3	67	0.00	2.30
			AvgRF	CCRF	%Dev			
19		Acetone	0.111	0.129	-16.2	71	0.00	2.31
20		Methyl acetate	0.241	0.296	-22.8#	71	0.00	2.39
21		trans-1,2-Dichloroethene	0.245	0.292	-19.2	69	0.00	2.40
22		Hexane	0.139	0.156	-12.2	70	0.00	2.47

Continuing Calibration Summary

Job Number: FC1886 **Sample:** V1P3666-CC3655
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 1P97239.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

23		Methyl Tert Butyl Ether	0.584	0.700	-19.9	69	0.00	2.47
24		Tert Butyl Alcohol	0.054	0.058	-7.4	64	0.00	2.51
25		Acetonitrile	0.050	0.055	-10.0	68	0.00	2.55
26		Di-isopropyl ether	0.567	0.683	-20.5#	70	0.00	2.68
27		Chloroprene	0.815	1.315	-61.3#	96	0.00	2.72
28	P	1,1-Dichloroethane	0.315	0.401	-27.3#	73	0.00	2.73
29		Acrylonitrile	0.108	0.147	-36.1#	81	0.00	2.72
30		ETBE	0.564	0.679	-20.4#	70	0.00	2.88
31		Vinyl acetate	0.413	0.517	-25.2#	72	0.00	2.86
32		cis-1,2-Dichloroethene	0.192	0.226	-17.7	67	0.00	3.01
33		2,2-Dichloropropane	0.273	0.312	-14.3	64	0.00	3.08
34		Bromochloromethane	0.080	0.091	-13.7	64	0.00	3.12
35		Cyclohexane	0.277	0.320	-15.5	67	0.00	3.16
36	C	Chloroform	0.326	0.398	-22.1#	70	0.00	3.16
37		Ethyl acetate	0.303	0.373	-23.1#	70	0.00	3.22
			Amount	Calc.	%Drift			
38		Tetrahydrofuran	40.000	46.932	-17.3	67	0.00	3.26
			AvgRF	CCRF	%Dev			
39	S	Dibromofluoromethane	0.214	0.214	0.0	59	0.00	3.26
40		Carbon Tetrachloride	0.207	0.227	-9.7	62	0.00	3.27
41		1,1,1-Trichloroethane	0.274	0.314	-14.6	65	0.00	3.29
42		2-Butanone	0.198	0.229	-15.7	70	0.00	3.31
43		1,1-Dichloropropene	0.257	0.298	-16.0	67	0.00	3.36
			Amount	Calc.	%Drift			
44		tert-Butyl formate	200.000	229.294	-14.6	69	0.00	3.41
45		Propionitrile	400.000	492.056	-23.0#	74	0.00	3.46
			AvgRF	CCRF	%Dev			
46		Methacrylonitrile	0.187	0.234	-25.1#	78	0.00	3.48
47		Benzene	0.794	1.000	-25.9#	74	0.00	3.49
48		TAME	0.553	0.662	-19.7	70	0.00	3.56
49	S	1,2-Dichloroethane-d4	0.288	0.294	-2.1	63	0.00	3.55
50		Isobutyl alcohol	0.028	0.018	35.7#	38#	0.00	3.59
51		1,2-Dichloroethane	0.259	0.301	-16.2	70	0.00	3.58
52		Tert Amyl Alcohol	0.043	0.050	-16.3	67	0.00	3.65
53		Trichloroethene	0.197	0.228	-15.7	68	0.00	3.82
54		Methylcyclohexane	0.270	0.316	-17.0	70	0.00	3.84
55		Dibromomethane	0.112	0.129	-15.2	67	0.00	4.04
56	C	1,2-Dichloropropane	0.184	0.216	-17.4	69	0.00	4.10
57		Bromodichloromethane	0.212	0.259	-22.2#	69	0.00	4.14
58		Methyl methacrylate	0.221	0.251	-13.6	67	0.00	4.23
59		1,4-Dioxane	0.004	0.005	-25.0#	73	0.00	4.26
			Amount	Calc.	%Drift			
60		2-Chloroethyl vinyl ether	200.000	226.457	-13.2	68	0.00	4.47
			AvgRF	CCRF	%Dev			
61		cis-1,3-Dichloropropene	0.282	0.332	-17.7	67	0.00	4.51
62	I	Chlorobenzene-d5	1.000	1.000	0.0	71	0.00	5.64
63	S	Toluene-d8	1.418	1.264	10.9	64	0.00	4.65
64	C	Toluene	1.243	1.248	-0.4	71	0.00	4.68
			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	147.080	26.5#	46	0.00	4.77
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FC1886 **Sample:** V1P3666-CC3655
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 1P97239.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

66		4-Methyl-2-pentanone	0.494	0.508	-2.8	74	0.00	4.89
67		trans-1,3-Dichloropropene	0.372	0.383	-3.0	69	0.00	4.91
68		Tetrachloroethene	0.280	0.268	4.3	64	0.00	4.93
69		Ethyl methacrylate	0.434	0.428	1.4	69	0.00	5.03
70		1,1,2-Trichloroethane	0.209	0.212	-1.4	71	0.00	5.02
		----------	Amount	Calc.	%Drift	----------		
71		Dibromochloromethane	40.000	40.192	-0.5	67	0.00	5.14
		----------	AvgRF	CCRF	%Dev	----------		
72		1,3-Dichloropropane	0.460	0.467	-1.5	70	0.00	5.19
73		1,2-Dibromoethane	0.257	0.248	3.5	66	0.00	5.29
74		3,3-dimethyl-1-butanol	0.070	0.064	8.6	60	0.00	5.42
75		2-hexanone	0.495	0.523	-5.7	73	0.00	5.42
76		1-Chlorohexane	0.375	1.720	-358.7#	340#	0.03	5.68
77	C	Ethylbenzene	1.278	1.336	-4.5	72	0.00	5.68
78	P	Chlorobenzene	0.707	0.735	-4.0	73	0.00	5.65
79		1,1,1,2-Tetrachloroethane	0.216	0.227	-5.1	70	0.00	5.69
80		m,p-Xylene	0.995	1.052	-5.7	73	0.00	5.77
81		o-Xylene	0.986	1.002	-1.6	71	0.00	6.07
82		Styrene	0.763	0.795	-4.2	70	0.00	6.10
		----------	Amount	Calc.	%Drift	----------		
83	P	Bromoform	40.000	40.808	-2.0	68	0.00	6.11
		----------	AvgRF	CCRF	%Dev	----------		
84		Isopropylbenzene	1.163	1.194	-2.7	70	0.00	6.30
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	74	0.00	7.33
86	S	4-Bromofluorobenzene	0.803	0.726	9.6	65	0.00	6.49
		----------	Amount	Calc.	%Drift	----------		
87		cis-1,4-Dichloro-2-butene	40.000	35.257	11.9	65	0.00	6.52
		----------	AvgRF	CCRF	%Dev	----------		
88		n-Propylbenzene	2.972	3.017	-1.5	72	0.00	6.61
89		Bromobenzene	0.609	0.562	7.7	65	0.00	6.56
90	P	1,1,2,2-Tetrachloroethane	0.813	0.842	-3.6	75	0.00	6.62
91		1,3,5-Trimethylbenzene	2.080	2.090	-0.5	72	0.00	6.75
92		2-Chlorotoluene	1.784	1.749	2.0	72	0.00	6.71
93		trans-1,4-Dichloro-2-Bute	0.303	0.285	5.9	67	0.00	6.75
94		1,2,3-Trichloropropane	0.302	0.304	-0.7	74	0.00	6.72
95		Cyclohexanone	0.051	0.047	7.8	71	0.00	6.75
96		4-Chlorotoluene	1.853	1.827	1.4	72	0.00	6.83
97		tert-Butylbenzene	1.148	1.135	1.1	72	0.00	6.99
98		a-Methyl styrene	0.000	0.000	0.0	76	0.00	7.12
99		1,2,4-Trimethylbenzene	1.973	1.951	1.1	72	0.00	7.04
		----------	Amount	Calc.	%Drift	----------		
100		Pentachloroethane	40.000	38.826	2.9	68	0.00	6.99
		----------	AvgRF	CCRF	%Dev	----------		
101		sec-Butylbenzene	2.289	2.310	-0.9	72	0.00	7.13
102		4-Isopropyltoluene	1.939	1.944	-0.3	70	0.00	7.24
103		1,3-Dichlorobenzene	1.102	1.059	3.9	69	0.00	7.27
104		1,2,3-Trimethylbenzene	1.930	1.938	-0.4	73	0.00	7.37
105		1,4-Dichlorobenzene	1.138	1.102	3.2	71	0.00	7.34
106		n-Butylbenzene	0.915	0.954	-4.3	75	0.00	7.55
		----------	Amount	Calc.	%Drift	----------		

Continuing Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3666-CC3655
Lab FileID: 1P97239.D

107	Benzyl Chloride	40.000	33.872	15.3	57	0.00	7.52
	----------	AvgRF	CCRF	%Dev	----------		
108	1,2-Dichlorobenzene	1.030	0.999	3.0	70	0.00	7.65
109	1,2-Dibromo-3-Chloropropa	0.192	0.199	-3.6	72	0.00	8.20
110	Hexachlorobutadiene	0.205	0.187	8.8	64	0.00	8.68
111	1,2,4-Trichlorobenzene	0.555	0.497	10.5	64	0.00	8.68
112	Naphthalene	1.994	1.808	9.3	64	0.00	8.88
113	1,2,3-Trichlorobenzene	0.530	0.479	9.6	65	0.00	9.01

(#) = Out of Range SPCC's out = 0 CCC's out = 1

1P96690.D V1P_2022-12-29.M Thu Jan 19 15:21:50 2023

Continuing Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3666-ECC3655
Lab FileID: 1P97285.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ce...\V1P3666-67\1P97285.D Vial: 26
Acq On : 19 Jan 2023 11:13 pm Operator: joannel
Sample : ECC3655-5 Inst : MSVOA13
Misc : MS53194,V1P3666,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\met...V1P_2022-12-29.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Dec 29 16:53:50 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Fluorobenzene	1.000	1.000	0.0	63	0.00	3.71
	---------- True	Calc.	% Drift	----------			
2	Dichlorodifluoromethane	40.000	44.665	-11.7	71	-0.02	1.11
	---------- AvgRF	CCRF	% Dev	----------			
3 P	Chloromethane	0.176	0.190	-8.0	70	-0.01	1.24
	---------- True	Calc.	% Drift	----------			
4	1,3-butadiene	40.000	3.870	90.3#	7	0.00	1.31
5 C	Vinyl Chloride	40.000	48.135	-20.3#	77	0.00	1.30
6	Bromomethane	40.000	64.812	-62.0#	98	0.00	1.50
7	Chloroethane	40.000	-50.000	225.0#	103	0.00	1.57
8	Trichlorofluoromethane	40.000	81.549	-103.9#	94	0.00	1.66
	---------- AvgRF	CCRF	% Dev	----------			
9	Ethyl Ether	0.170	0.210	-23.5	78	0.00	1.87
	---------- True	Calc.	% Drift	----------			
10	Ethanol	800.000	1302.033	-62.8#	91	0.00	1.96
11	1,2-Dichlorotrifluoroetha	40.000	47.628	-19.1	72	0.00	1.96
	---------- AvgRF	CCRF	% Dev	----------			
12 C	1,1-Dichloroethene	0.244	0.269	-10.2	65	0.00	1.97
13	Freon 113	0.150	0.168	-12.0	71	0.00	2.00
14	Carbon Disulfide	0.437	0.498	-14.0	70	0.00	1.99
15	Iodomethane	0.158	0.188	-19.0	71	0.00	2.05
	---------- True	Calc.	% Drift	----------			
16	Acrolein	200.000	262.589	-31.3	81	0.00	2.15
	---------- AvgRF	CCRF	% Dev	----------			
17	Allyl chloride	0.247	0.295	-19.4	76	0.00	2.24
	---------- True	Calc.	% Drift	----------			
18	Methylene Chloride	40.000	47.457	-18.6	73	0.00	2.29
	---------- AvgRF	CCRF	% Dev	----------			
19	Acetone	0.111	0.127	-14.4	73	0.00	2.31
20	Methyl acetate	0.241	0.312	-29.5	78	0.00	2.39
21	trans-1,2-Dichloroethene	0.245	0.292	-19.2	71	0.00	2.39
22	Hexane	0.139	0.143	-2.9	66	0.00	2.46

Continuing Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3666-ECC3655
Lab FileID: 1P97285.D

23		Methyl Tert Butyl Ether	0.584	0.734	-25.7	76	0.00	2.46
24		Tert Butyl Alcohol	0.054	0.065	-20.4	74	0.00	2.51
25		Acetonitrile	0.050	0.047	6.0	61	0.00	2.54
26		Di-isopropyl ether	0.567	0.704	-24.2	75	0.00	2.68
27		Chloroprene	0.815	1.342	-64.7#	102	0.00	2.72
28	P	1,1-Dichloroethane	0.315	0.404	-28.3	76	0.00	2.72
29		Acrylonitrile	0.108	0.150	-38.9	86	0.00	2.72
30		ETBE	0.564	0.707	-25.4	76	0.00	2.87
31		Vinyl acetate	0.413	0.521	-26.2	75	0.00	2.85
32		cis-1,2-Dichloroethene	0.192	0.230	-19.8	71	0.00	3.01
33		2,2-Dichloropropane	0.273	0.273	0.0	58	0.00	3.08
34		Bromochloromethane	0.080	0.096	-20.0	70	0.00	3.12
35		Cyclohexane	0.277	0.328	-18.4	72	0.00	3.16
36	C	Chloroform	0.326	0.403	-23.6#	73	0.00	3.16
37		Ethyl acetate	0.303	0.384	-26.7	75	0.00	3.22
			True	Calc.	% Drift			
38		Tetrahydrofuran	40.000	48.192	-20.5	72	0.00	3.25
			AvgRF	CCRF	% Dev			
39	S	Dibromofluoromethane	0.214	0.220	-2.8	62	0.00	3.26
40		Carbon Tetrachloride	0.207	0.250	-20.8	70	0.00	3.26
41		1,1,1-Trichloroethane	0.274	0.321	-17.2	69	0.00	3.29
42		2-Butanone	0.198	0.222	-12.1	71	0.00	3.31
43		1,1-Dichloropropene	0.257	0.298	-16.0	69	0.00	3.35
			True	Calc.	% Drift			
44		tert-Butyl formate	200.000	242.744	-21.4	76	0.00	3.40
45		Propionitrile	400.000	518.702	-29.7	80	0.00	3.45
			AvgRF	CCRF	% Dev			
46		Methacrylonitrile	0.187	0.239	-27.8	83	0.00	3.48
47		Benzene	0.794	0.992	-24.9	77	0.00	3.49
48		TAME	0.553	0.695	-25.7	77	0.00	3.56
49	S	1,2-Dichloroethane-d4	0.288	0.292	-1.4	65	0.00	3.54
50		Isobutyl alcohol	0.028	0.035	-25.0	76	0.00	3.59
51		1,2-Dichloroethane	0.259	0.306	-18.1	74	0.00	3.58
52		Tert Amyl Alcohol	0.043	0.054	-25.6	75	0.00	3.65
53		Trichloroethene	0.197	0.225	-14.2	70	0.00	3.81
54		Methylcyclohexane	0.270	0.321	-18.9	74	0.00	3.84
55		Dibromomethane	0.112	0.132	-17.9	71	0.00	4.04
56	C	1,2-Dichloropropane	0.184	0.222	-20.7#	73	0.00	4.10
57		Bromodichloromethane	0.212	0.258	-21.7	72	0.00	4.14
58		Methyl methacrylate	0.221	0.258	-16.7	71	0.00	4.23
59		1,4-Dioxane	0.004	0.006	-50.0	84	0.00	4.26
			True	Calc.	% Drift			
60		2-Chloroethyl vinyl ether	200.000	225.054	-12.5	70	0.00	4.47
			AvgRF	CCRF	% Dev			
61		cis-1,3-Dichloropropene	0.282	0.330	-17.0	69	0.00	4.52
62	I	Chlorobenzene-d5	1.000	1.000	0.0	72	0.00	5.63
63	S	Toluene-d8	1.418	1.278	9.9	66	0.00	4.64
64	C	Toluene	1.243	1.262	-1.5	73	0.00	4.67
			True	Calc.	% Drift			
65		2-Nitropropane	200.000	163.105	18.4	53	0.00	4.77
			AvgRF	CCRF	% Dev			

Continuing Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3666-ECC3655
Lab FileID: 1P97285.D

66		4-Methyl-2-pentanone	0.494	0.509	-3.0	76	0.00	4.88
67		trans-1,3-Dichloropropene	0.372	0.381	-2.4	70	0.00	4.91
68		Tetrachloroethene	0.280	0.290	-3.6	71	0.00	4.93
69		Ethyl methacrylate	0.434	0.452	-4.1	74	0.00	5.02
70		1,1,2-Trichloroethane	0.209	0.219	-4.8	75	0.00	5.01
		----------	True	Calc.	% Drift	----------		
71		Dibromochloromethane	40.000	42.176	-5.4	73	0.00	5.14
		----------	AvgRF	CCRF	% Dev	----------		
72		1,3-Dichloropropane	0.460	0.483	-5.0	74	0.00	5.18
73		1,2-Dibromoethane	0.257	0.258	-0.4	70	0.00	5.29
74		3,3-dimethyl-1-butanol	0.070	0.074	-5.7	70	0.00	5.42
75		2-hexanone	0.495	0.539	-8.9	77	0.00	5.43
76		1-Chlorohexane	0.375	0.369	1.6	75	0.00	5.64
77	C	Ethylbenzene	1.278	1.333	-4.3	73	0.00	5.68
78	P	Chlorobenzene	0.707	0.725	-2.5	73	0.00	5.64
79		1,1,1,2-Tetrachloroethane	0.216	0.231	-6.9	72	0.00	5.69
80		m,p-Xylene	0.995	1.045	-5.0	74	0.00	5.78
81		o-Xylene	0.986	1.026	-4.1	74	0.00	6.07
82		Styrene	0.763	0.801	-5.0	72	0.00	6.10
		----------	True	Calc.	% Drift	----------		
83	P	Bromoform	40.000	43.408	-8.5	75	0.00	6.11
		----------	AvgRF	CCRF	% Dev	----------		
84		Isopropylbenzene	1.163	1.204	-3.5	72	0.00	6.30
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	78	0.00	7.33
86	S	4-Bromofluorobenzene	0.803	0.732	8.8	69	0.00	6.49
		----------	True	Calc.	% Drift	----------		
87		cis-1,4-Dichloro-2-butene	40.000	35.336	11.7	69	0.00	6.52
		----------	AvgRF	CCRF	% Dev	----------		
88		n-Propylbenzene	2.972	2.924	1.6	73	0.00	6.60
89		Bromobenzene	0.609	0.560	8.0	68	0.00	6.56
90	P	1,1,2,2-Tetrachloroethane	0.813	0.841	-3.4	79	0.00	6.62
91		1,3,5-Trimethylbenzene	2.080	2.050	1.4	74	0.00	6.75
92		2-Chlorotoluene	1.784	1.742	2.4	75	0.00	6.71
93		trans-1,4-Dichloro-2-Bute	0.303	0.287	5.3	71	0.00	6.75
94		1,2,3-Trichloropropane	0.302	0.294	2.6	75	0.00	6.72
95		Cyclohexanone	0.051	0.051	0.0	80	0.00	6.74
96		4-Chlorotoluene	1.853	1.796	3.1	74	0.00	6.83
97		tert-Butylbenzene	1.148	1.121	2.4	74	0.00	6.99
98		a-Methyl styrene	0.000	0.000	0.0	69	0.00	7.12
99		1,2,4-Trimethylbenzene	1.973	1.941	1.6	75	0.00	7.04
		----------	True	Calc.	% Drift	----------		
100		Pentachloroethane	40.000	34.898	12.8	64	0.00	6.99
		----------	AvgRF	CCRF	% Dev	----------		
101		sec-Butylbenzene	2.289	2.243	2.0	73	0.00	7.12
102		4-Isopropyltoluene	1.939	1.921	0.9	73	0.00	7.24
103		1,3-Dichlorobenzene	1.102	1.055	4.3	72	0.00	7.27
104		1,2,3-Trimethylbenzene	1.930	1.937	-0.4	77	0.00	7.36
105		1,4-Dichlorobenzene	1.138	1.095	3.8	74	0.00	7.34
106		n-Butylbenzene	0.915	0.902	1.4	74	0.00	7.55
		----------	True	Calc.	% Drift	----------		

Continuing Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1P3666-ECC3655
Lab FileID: 1P97285.D

107	Benzyl Chloride	40.000	26.796	33.0	46	0.00	7.52
	----------	AvgRF	CCRF	% Dev	----------		
108	1,2-Dichlorobenzene	1.030	0.998	3.1	73	0.00	7.65
109	1,2-Dibromo-3-Chloropropa	0.192	0.199	-3.6	75	0.00	8.20
110	Hexachlorobutadiene	0.205	0.192	6.3	69	0.00	8.68
111	1,2,4-Trichlorobenzene	0.555	0.506	8.8	69	0.00	8.68
112	Naphthalene	1.994	1.884	5.5	70	0.00	8.88
113	1,2,3-Trichlorobenzene	0.530	0.494	6.8	70	0.00	9.00

(#) = Out of Range SPCC's out = 0 CCC's out = 3
1P96690.D V1P_2022-12-29.M Fri Jan 20 00:46:46 2023

Initial Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1647-ICC1647
Lab FileID: 5E36584.D

Response Factor Report MSVOA20

Method : C:\msdchem\1\met...pIX01-13-2023_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

Calibration Files
1 =5E36580.D 2 =5E36581.D 3 =5E36582.D 4 =5E36583.D
5 =5E36584.D 6 =5E36585.D 7 =5E36586.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.315	0.239	0.227	0.248	0.238	0.254	0.281	0.257	11.78
3)P Chloromethane	0.387	0.275	0.254	0.271	0.273	0.291	0.293	0.292	15.04
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994									
Response Ratio = 0.00000 + 0.26614 *A + 0.01406 *A^2									
4)C Vinyl Chloride	0.334	0.261	0.244	0.267	0.271	0.287	0.297	0.280	10.49
5) 1,3-Butadiene	0.057	0.027	0.018	0.016	0.014			0.027	66.67
---- Linear regr., Force(0,0) ---- Coefficient = 0.9903									
Response Ratio = 0.00000 + 0.01673 *A									
6) Bromomethane	0.165	0.126	0.112	0.129	0.139	0.160	0.169	0.143	15.56
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9991									
Response Ratio = 0.00000 + 0.11856 *A + 0.02623 *A^2									
7) Chloroethane	0.206	0.160	0.155	0.175	0.193	0.283	0.283	0.208	26.09
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9932									
Response Ratio = 0.00000 + 0.15161 *A + 0.07154 *A^2									
8) Trichlorofluorome	0.490	0.372	0.351	0.381	0.374	0.397	0.424	0.398	11.63
9) Ethyl Ether	0.239	0.226	0.200	0.226	0.223	0.236	0.240	0.227	6.11
10) Ethanol		0.002	0.002	0.002	0.002	0.003	0.003	0.002	23.52
11) 1,2-Dichlorotrifl	0.369	0.319	0.255	0.313	0.290	0.320	0.336	0.314	11.31
12)C 1,1-Dichloroethen	0.401	0.357	0.293	0.364	0.339	0.377	0.385	0.359	9.89
13) Freon 113	0.305	0.256	0.205	0.279	0.237	0.266	0.290	0.263	12.87
14) Carbon Disulfide	0.954	0.728	0.580	0.716	0.663	0.746	0.764	0.736	15.55
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9982									
Response Ratio = 0.00000 + 0.65148 *A + 0.05770 *A^2									
15) Iodomethane	0.141	0.149	0.155	0.229	0.224	0.261	0.252	0.202	25.53
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9949									
Response Ratio = 0.00000 + 0.19660 *A + 0.03252 *A^2									
16) Acrolein	0.033	0.052	0.060	0.049	0.051	0.052	0.053	0.050	16.71
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9981									
Response Ratio = 0.00000 + 0.05097 *A + 0.00016 *A^2									
17) Allyl chloride	0.306	0.382	0.248	0.310	0.302	0.322	0.325	0.314	12.63
18) Methylene Chlorid	0.541	0.392	0.319	0.345	0.331	0.347	0.349	0.375	20.52
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9990									
Response Ratio = 0.00000 + 0.34078 *A + 0.00332 *A^2									
19) Acetone	0.077	0.069	0.077	0.080	0.083	0.083	0.084	0.079	6.78
20) Methyl acetate	0.166	0.173	0.157	0.176	0.184	0.191	0.190	0.177	7.11
21) trans-1,2-Dichlor	0.411	0.365	0.303	0.365	0.339	0.378	0.382	0.364	9.39
22) Hexane	0.297	0.241	0.196	0.247	0.208	0.233	0.255	0.240	13.80

Initial Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1647-ICC1647
Lab FileID: 5E36584.D

23)	Methyl Tert Butyl	0.854	0.829	0.709	0.772	0.765	0.811	0.812	0.793	6.07
24)	Acetonitrile	0.026	0.034	0.026	0.026	0.029	0.030	0.031	0.029	10.48
25)	Di-isopropyl ethe	0.897	0.848	0.688	0.789	0.769	0.816	0.824	0.804	8.16
26)	Chloroprene	0.626	0.831	0.536	0.699	0.669	0.727	0.771	0.694	13.90

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9971
Response Ratio = 0.00000 + 0.63434 *A + 0.06728 *A^2

27)P	1,1-Dichloroethan	0.560	0.500	0.397	0.485	0.449	0.497	0.503	0.484	10.45
28)	Acrylonitrile	0.095	0.089	0.092	0.091	0.094	0.096	0.098	0.093	3.47
29)	ETBE	0.893	0.869	0.753	0.832	0.822	0.874	0.889	0.848	5.86
30)	Tert Butyl Alcoho	0.028	0.031	0.030	0.031	0.033	0.034	0.034	0.031	6.29
31)	Vinyl acetate	0.457	0.477	0.493	0.511	0.518	0.536	0.552	0.506	6.57
32)	cis-1,2-Dichloroe	0.300	0.274	0.240	0.280	0.267	0.285	0.289	0.276	6.96
33)	2,2-Dichloropropa	0.456	0.406	0.321	0.393	0.377	0.415	0.424	0.399	10.61
34)	Bromochloromethan	0.146	0.148	0.127	0.138	0.133	0.139	0.138	0.138	5.39
35)	Cyclohexane	0.549	0.427	0.336	0.442	0.390	0.440	0.481	0.438	15.30

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9975
Response Ratio = 0.00000 + 0.37516 *A + 0.05052 *A^2

36)C	Chloroform	0.544	0.508	0.414	0.479	0.454	0.496	0.494	0.484	8.55
37)	Ethyl acetate	0.242	0.243	0.246	0.250	0.260	0.259	0.264	0.252	3.51
38)	Tetrahydrofuran	0.082	0.089	0.069	0.079	0.080	0.082	0.080	0.080	7.55
39)S	Dibromofluorometh	0.279	0.276	0.279	0.283	0.284	0.289	0.286	0.282	1.56
40)	Carbon Tetrachlor	0.411	0.369	0.295	0.379	0.347	0.392	0.405	0.371	10.75
41)	1,1,1-Trichloroet	0.482	0.435	0.345	0.423	0.394	0.440	0.447	0.424	10.28
42)	2-Butanone	0.103	0.101	0.111	0.124	0.132	0.132	0.134	0.120	11.99
43)	1,1-Dichloroprope	0.386	0.357	0.280	0.358	0.331	0.370	0.379	0.351	10.28
44)	tert-Butyl format	0.100	0.118	0.134	0.114	0.118	0.123	0.127	0.119	9.06
45)	Propionitrile	0.031	0.051	0.038	0.042	0.045	0.044	0.045	0.042	14.32
46)	Methacrylonitrile	0.159	0.219	0.156	0.173	0.180	0.183	0.187	0.180	11.76
47)	Benzene	1.179	1.034	0.848	1.021	0.953	1.049	1.056	1.020	9.94
48)	TAME	0.771	0.797	0.691	0.748	0.752	0.789	0.800	0.764	5.02
49)S	1,2-Dichloroethan	0.321	0.322	0.327	0.332	0.317	0.322	0.325	0.324	1.45
50)	1,2-Dichloroethan	0.431	0.393	0.346	0.384	0.377	0.396	0.395	0.389	6.58
51)	tert Amyl alcohol	0.020	0.024	0.023	0.024	0.026	0.027	0.027	0.025	10.48
52)	Trichloroethene	0.308	0.281	0.239	0.278	0.259	0.291	0.294	0.278	8.31
53)	Methylcyclohexane	0.531	0.418	0.353	0.453	0.382	0.444	0.491	0.439	13.91
54)	Dibromomethane	0.197	0.187	0.167	0.185	0.182	0.190	0.193	0.186	5.26
55)C	1,2-Dichloropropa	0.301	0.281	0.232	0.272	0.261	0.283	0.285	0.274	8.05
56)	Bromodichlorometh	0.359	0.367	0.307	0.352	0.348	0.373	0.381	0.355	6.86
57)	Methyl methacryla	0.152	0.278	0.201	0.216	0.226	0.235	0.240	0.221	17.48

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9978
Response Ratio = 0.00000 + 0.21552 *A + 0.01261 *A^2

58)	1,4-Dioxane	0.002	0.002	0.003	0.003	0.003	0.003	0.003	8.74	
59)	2-Chloroethyl vin	0.105	0.134	0.144	0.120	0.124	0.126	0.126	0.125	9.62
60)	cis-1,3-Dichlorop	0.396	0.391	0.353	0.404	0.402	0.436	0.442	0.403	7.42
61) I	Chlorobenzene-d5	----------ISTD----------								
62)S	Toluene-d8	1.350	1.382	1.367	1.356	1.370	1.355	1.372	1.364	0.84
63)C	Toluene	1.767	1.549	1.272	1.468	1.402	1.521	1.551	1.504	10.11
64)	Isobutyl alcohol	0.013	0.017	0.013	0.015	0.016	0.017	0.017	0.015	11.04
65)	2-Nitropropane	0.094	0.099	0.091	0.100	0.105	0.110	0.113	0.102	8.02
66)	4-Methyl-2-pentan	0.319	0.305	0.343	0.362	0.380	0.382	0.390	0.354	9.33
67)	trans-1,3-Dichlor	0.399	0.462	0.426	0.482	0.484	0.515	0.524	0.470	9.63
68)	Tetrachloroethene	0.489	0.439	0.351	0.433	0.397	0.442	0.455	0.430	10.27
69)	Ethyl methacrylat	0.285	0.515	0.391	0.444	0.461	0.481	0.495	0.439	17.93

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9986
Response Ratio = 0.00000 + 0.42893 *A + 0.03435 *A^2

Initial Calibration Summary

Job Number: FC1886 **Sample:** V5E1647-ICC1647
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 5E36584.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

70)	1,1,2-Trichloroet	0.295	0.312	0.265	0.284	0.280	0.287	0.293	0.288	5.02
71)	Dibromochlorometh	0.385	0.402	0.359	0.402	0.405	0.434	0.444	0.404	7.08
72)	1,3-Dichloropropa	0.642	0.602	0.541	0.574	0.566	0.585	0.597	0.587	5.42
73)	1,2-Dibromoethane	0.345	0.364	0.328	0.357	0.359	0.376	0.383	0.359	5.11
74)	3,3-Dimethyl-1-bu	0.031	0.031	0.041	0.035	0.038	0.040	0.042	0.037	12.42
75)	2-hexanone	0.182	0.210	0.251	0.264	0.281	0.284	0.292	0.252	16.48
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993									
	Response Ratio = 0.00000 + 0.25280 *A + 0.00419 *A^2									
76)	1-Chlorohexane	0.494	0.472	0.390	0.500	0.456	0.512	0.536	0.480	9.90
77)C	Ethylbenzene	2.055	1.731	1.433	1.692	1.596	1.753	1.793	1.722	11.04
78)P	Chlorobenzene	1.116	1.007	0.847	0.980	0.933	1.003	1.017	0.986	8.35
79)	1,1,1,2-Tetrachlo	0.381	0.366	0.320	0.362	0.355	0.381	0.388	0.365	6.36
80)	m,p-Xylene	1.455	1.338	1.110	1.319	1.250	1.384	1.413	1.324	8.73
81)	o-Xylene	1.355	1.337	1.113	1.293	1.245	1.342	1.380	1.295	7.08
82)	Styrene	0.923	0.949	0.831	0.969	0.958	1.042	1.082	0.965	8.44
83)P	Bromoform	0.233	0.267	0.245	0.278	0.291	0.316	0.329	0.280	12.58
84)	Isopropylbenzene	1.764	1.659	1.395	1.655	1.549	1.735	1.787	1.649	8.36
85)	I 1,4-Dichlorobenzene-d ----------ISTD----------									
86)S	4-Bromofluorobenz	0.846	0.846	0.842	0.833	0.822	0.815	0.824	0.832	1.52
87)	cis-1,4-Dichloro-		0.184	0.154	0.184	0.193	0.204	0.205	0.187	10.03
88)	n-Propylbenzene	3.877	3.490	2.826	3.402	3.138	3.489	3.541	3.395	9.78
89)	Bromobenzene	0.849	0.810	0.657	0.759	0.733	0.767	0.781	0.765	7.93
90)P	1,1,2,2-Tetrachlo	0.824	0.864	0.729	0.792	0.801	0.821	0.828	0.808	5.17
91)	1,3,5-Trimethylbe	2.543	2.440	2.058	2.447	2.284	2.510	2.544	2.404	7.36
92)	2-Chlorotoluene	2.542	2.349	1.918	2.192	2.059	2.226	2.258	2.221	9.01
93)	trans-1,4-Dichlor		0.184	0.154	0.184	0.193	0.204	0.205	0.187	10.03
94)	1,2,3-Trichloropr	0.242	0.266	0.224	0.241	0.245	0.248	0.248	0.245	5.00
95)	Cyclohexanone		0.015	0.023	0.022	0.024	0.023	0.023	0.022	14.80
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9974									
	Response Ratio = 0.00000 + 0.02200 *A + 0.00010 *A^2									
96)	4-Chlorotoluene	2.202	2.060	1.717	1.979	1.900	2.038	2.076	1.996	7.71
97)	a-Methyl styrene								0.000	-1.00
98)	tert-Butylbenzene	1.550	1.308	1.118	1.334	1.224	1.370	1.394	1.328	10.23
99)	1,2,4-Trimethylbe	2.402	2.321	2.086	2.407	2.245	2.465	2.487	2.345	6.03
100)	Pentachloroethane	0.364	0.584	0.390	0.462	0.467	0.486	0.500	0.465	15.65
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9974									
	Response Ratio = 0.00000 + 0.44760 *A + 0.02650 *A^2									
101)	sec-Butylbenzene	3.141	2.864	2.390	2.935	2.624	2.976	3.035	2.852	9.11
102)	4-Isopropyltoluen	2.515	2.454	2.092	2.552	2.347	2.678	2.701	2.477	8.46
103)	1,3-Dichlorobenze	1.530	1.411	1.208	1.363	1.313	1.407	1.420	1.379	7.26
104)	1,2,3-Trimethylbe	2.543	2.455	2.101	2.374	2.238	2.421	2.456	2.370	6.38
105)	1,4-Dichlorobenze	1.679	1.590	1.301	1.442	1.395	1.472	1.476	1.479	8.38
106)	n-Butylbenzene	1.293	1.293	1.133	1.385	1.288	1.471	1.485	1.336	9.18
107)	Benzyl Chloride	0.159	0.243	0.221	0.256	0.283	0.307	0.315	0.255	21.28
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9989									
	Response Ratio = 0.00000 + 0.24155 *A + 0.03967 *A^2									
108)	1,2-Dichlorobenze	1.390	1.377	1.178	1.316	1.281	1.356	1.371	1.324	5.67
109)	1,2-Dibromo-3-Chl	0.136	0.136	0.126	0.142	0.150	0.156	0.154	0.143	7.76
110)	Hexachlorobutadie	0.506	0.377	0.318	0.407	0.363	0.409	0.416	0.399	14.52
111)	1,2,4-Trichlorobe	0.891	0.850	0.804	0.913	0.872	0.947	0.936	0.888	5.66
112)	Naphthalene	2.196	2.101	1.929	2.110	2.165	2.240	2.216	2.137	4.92
113)	1,2,3-Trichlorobe	0.742	0.761	0.698	0.782	0.751	0.816	0.800	0.764	5.18

(#) = Out of Range

Initial Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1647-ICC1647
Lab FileID: 5E36584.D

appIX01-13-2023_.M Fri Jan 13 14:55:21 2023

Initial Calibration Verification

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1647-ICV1647
Lab FileID: 5E36590.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\01-13-2023\5E36590.D Vial: 12
Acq On : 13 Jan 2023 2:34 pm Operator: joannel
Sample : ICV1647-5 Inst : MSVOA20
Misc : MS53151,V5E1647,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...pIX01-13-2023_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Fri Jan 13 14:00:16 2023
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	102	0.00	8.95
2	Dichlorodifluoromethane	0.257	0.219	14.8	94	0.00	2.85
	----------	Amount	Calc.	%Drift	----------		
3 P	Chloromethane	40.000	37.504	6.2	97	0.00	3.22
	----------	AvgRF	CCRF	%Dev	----------		
4 C	Vinyl Chloride	0.280	0.269	3.9	102	0.00	3.37
	----------	Amount	Calc.	%Drift	----------		
5	1,3-Butadiene	40.000	527.590	-1219.0#	1587	0.00	3.40
6	Bromomethane	40.000	39.890	0.3	102	0.00	3.94
7	Chloroethane	40.000	36.246	9.4	98	0.00	4.15
	----------	AvgRF	CCRF	%Dev	----------		
8	Trichlorofluoromethane	0.398	0.394	1.0	108	0.00	4.38
9	Ethyl Ether	0.227	0.210	7.5	96	0.00	4.87
10	Ethanol	0.002	0.002	0.0	127	0.00	5.10
11	1,2-Dichlorotrifluoroetha	0.314	0.253	19.4	89	0.00	5.15
12 C	1,1-Dichloroethene	0.359	0.328	8.6	99	0.00	5.16
13	Freon 113	0.263	0.216	17.9	93	0.00	5.21
	----------	Amount	Calc.	%Drift	----------		
14	Carbon Disulfide	40.000	36.127	9.7	97	0.00	5.20
15	Iodomethane	40.000	37.192	7.0	94	0.00	5.37
16	Acrolein	200.000	166.125	16.9	86	0.00	5.63
	----------	AvgRF	CCRF	%Dev	----------		
17	Allyl chloride	0.314	0.289	8.0	98	0.00	5.81
	----------	Amount	Calc.	%Drift	----------		
18	Methylene Chloride	40.000	36.937	7.7	98	0.00	5.96
	----------	AvgRF	CCRF	%Dev	----------		
19	Acetone	0.079	0.076	3.8	93	0.00	6.01
20	Methyl acetate	0.177	0.175	1.1	98	0.00	6.16
21	trans-1,2-Dichloroethene	0.364	0.333	8.5	100	0.00	6.17
22	Hexane	0.240	0.198	17.5	97	0.00	6.26
23	Methyl Tert Butyl Ether	0.793	0.747	5.8	100	0.00	6.29
24	Acetonitrile	0.029	0.024	17.2	85	0.00	6.61
25	Di-isopropyl ether	0.804	0.769	4.4	102	0.00	6.75

Initial Calibration Verification

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Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1647-ICV1647
Lab FileID: 5E36590.D

			Amount	Calc.	%Drift			
26		Chloroprene	40.000	19.533	51.2#	49	0.00	6.91
			AvgRF	CCRF	%Dev			
27	P	1,1-Dichloroethane	0.484	0.451	6.8	103	0.00	6.94
28		Acrylonitrile	0.093	0.083	10.8	90	0.00	6.99
29		ETBE	0.848	0.802	5.4	100	0.00	7.19
30		Tert Butyl Alcohol	0.031	0.028	9.7	89	0.00	6.39
31		Vinyl acetate	0.506	0.559	-10.5	110	0.00	7.21
32		cis-1,2-Dichloroethene	0.276	0.260	5.8	100	0.00	7.58
33		2,2-Dichloropropane	0.399	0.338	15.3	92	0.00	7.70
34		Bromochloromethane	0.138	0.134	2.9	103	0.00	7.80
			Amount	Calc.	%Drift			
35		Cyclohexane	40.000	36.901	7.7	100	0.00	7.82
			AvgRF	CCRF	%Dev			
36	C	Chloroform	0.484	0.446	7.9	100	0.00	7.87
37		Ethyl acetate	0.252	0.241	4.4	95	0.00	7.98
38		Tetrahydrofuran	0.080	0.077	3.8	99	0.00	8.07
39	S	Dibromofluoromethane	0.282	0.287	-1.8	103	0.00	8.07
40		Carbon Tetrachloride	0.371	0.332	10.5	98	0.00	8.05
41		1,1,1-Trichloroethane	0.424	0.380	10.4	99	0.00	8.12
42		2-Butanone	0.120	0.120	0.0	93	0.00	8.20
43		1,1-Dichloropropene	0.351	0.306	12.8	95	0.00	8.25
44		tert-Butyl formate	0.119	0.084	29.4#	73	0.00	8.35
45		Propionitrile	0.042	0.038	9.5	87	0.00	8.53
46		Methacrylonitrile	0.180	0.162	10.0	92	0.00	8.55
47		Benzene	1.020	0.915	10.3	98	0.00	8.52
48		TAME	0.764	0.744	2.6	101	0.00	8.60
49	S	1,2-Dichloroethane-d4	0.324	0.320	1.2	103	0.00	8.66
50		1,2-Dichloroethane	0.389	0.369	5.1	100	0.00	8.73
51		tert Amyl alcohol	0.025	0.023	8.0	88	0.00	8.78
52		Trichloroethene	0.278	0.255	8.3	101	0.00	9.13
53		Methylcyclohexane	0.439	0.380	13.4	102	0.00	9.13
54		Dibromomethane	0.186	0.176	5.4	99	0.00	9.58
55	C	1,2-Dichloropropane	0.274	0.248	9.5	97	0.00	9.67
56		Bromodichloromethane	0.355	0.353	0.6	104	0.00	9.72
			Amount	Calc.	%Drift			
57		Methyl methacrylate	40.000	38.536	3.7	98	0.00	9.83
			AvgRF	CCRF	%Dev			
58		1,4-Dioxane	0.003	0.003	0.0	94	0.00	9.92
59		2-Chloroethyl vinyl ether	0.125	0.124	0.8	102	0.00	10.26
60		cis-1,3-Dichloropropene	0.403	0.393	2.5	100	0.00	10.35
61	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00	12.11
62	S	Toluene-d8	1.364	1.355	0.7	102	0.00	10.54
63	C	Toluene	1.504	1.323	12.0	97	0.00	10.60
64		Isobutyl alcohol	0.015	0.013	13.3	83	0.00	8.67
65		2-Nitropropane	0.102	0.099	2.9	96	0.00	10.83
66		4-Methyl-2-pentanone	0.354	0.359	-1.4	97	0.00	10.94
67		trans-1,3-Dichloropropene	0.470	0.504	-7.2	107	0.00	10.99
68		Tetrachloroethene	0.430	0.385	10.5	99	0.00	11.00
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	35.940	10.2	91	0.00	11.10
			AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FC1886
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Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1647-ICV1647
Lab FileID: 5E36590.D

70		1,1,2-Trichloroethane	0.288	0.273	5.2	100	0.00	11.16
71		Dibromochloromethane	0.404	0.393	2.7	100	0.00	11.36
72		1,3-Dichloropropane	0.587	0.522	11.1	95	0.00	11.45
73		1,2-Dibromoethane	0.359	0.350	2.5	100	0.00	11.62
74		3,3-Dimethyl-1-butanol	0.037	0.030	18.9	79	0.00	11.71
		----------	Amount	Calc.	%Drift	----------		
75		2-hexanone	200.000	187.699	6.2	92	0.00	11.76
		----------	AvgRF	CCRF	%Dev	----------		
76		1-Chlorohexane	0.480	0.444	7.5	100	0.00	12.05
77	C	Ethylbenzene	1.722	1.530	11.1	99	0.00	12.12
78	P	Chlorobenzene	0.986	0.917	7.0	101	0.00	12.13
79		1,1,1,2-Tetrachloroethane	0.365	0.349	4.4	101	0.00	12.18
80		m,p-Xylene	1.324	1.210	8.6	99	0.00	12.26
81		o-Xylene	1.295	1.227	5.3	101	0.00	12.70
82		Styrene	0.965	0.936	3.0	100	0.00	12.76
83	P	Bromoform	0.280	0.284	-1.4	100	0.00	12.82
84		Isopropylbenzene	1.649	1.516	8.1	101	0.00	13.01
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	14.47
86	S	4-Bromofluorobenzene	0.832	0.815	2.0	103	0.00	13.33
87		cis-1,4-Dichloro-2-butene	0.187	0.179	4.3	97	0.00	13.68
88		n-Propylbenzene	3.395	3.029	10.8	101	0.00	13.43
89		Bromobenzene	0.765	0.692	9.5	99	0.00	13.46
90	P	1,1,2,2-Tetrachloroethane	0.808	0.754	6.7	98	0.00	13.49
91		1,3,5-Trimethylbenzene	2.404	2.146	10.7	98	0.00	13.61
92		2-Chlorotoluene	2.221	1.995	10.2	101	0.00	13.62
93		trans-1,4-Dichloro-2-Bute	0.187	0.179	4.3	97	0.00	13.68
94		1,2,3-Trichloropropane	0.245	0.214	12.7	91	0.00	13.66
		----------	Amount	Calc.	%Drift	----------		
95		Cyclohexanone	200.000	169.015	15.5	83	0.00	13.74
		----------	AvgRF	CCRF	%Dev	----------		
96		4-Chlorotoluene	1.996	1.846	7.5	101	0.00	13.79
97		a-Methyl styrene		----------NA----------				
98		tert-Butylbenzene	1.328	1.155	13.0	99	0.00	13.95
99		1,2,4-Trimethylbenzene	2.345	2.221	5.3	103	0.00	14.02
		----------	Amount	Calc.	%Drift	----------		
100		Pentachloroethane	40.000	39.590	1.0	104	0.00	14.00
		----------	AvgRF	CCRF	%Dev	----------		
101		sec-Butylbenzene	2.852	2.598	8.9	103	0.00	14.13
102		4-Isopropyltoluene	2.477	2.253	9.0	100	0.00	14.26
103		1,3-Dichlorobenzene	1.379	1.328	3.7	106	0.00	14.40
104		1,2,3-Trimethylbenzene	2.370	2.359	0.5	110	0.00	14.47
105		1,4-Dichlorobenzene	1.479	1.360	8.0	102	0.00	14.49
106		n-Butylbenzene	1.336	1.151	13.8	93	0.00	14.69
		----------	Amount	Calc.	%Drift	----------		
107		Benzyl Chloride	40.000	40.764	-1.9	103	0.00	14.71
		----------	AvgRF	CCRF	%Dev	----------		
108		1,2-Dichlorobenzene	1.324	1.254	5.3	102	0.00	14.90
109		1,2-Dibromo-3-Chloropropa	0.143	0.127	11.2	88	0.00	15.63
110		Hexachlorobutadiene	0.399	0.342	14.3	98	0.00	16.17
111		1,2,4-Trichlorobenzene	0.888	0.827	6.9	99	0.00	16.22
112		Naphthalene	2.137	1.975	7.6	95	0.00	16.52

Initial Calibration Verification

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1647-ICV1647
Lab FileID: 5E36590.D

113	1,2,3-Trichlorobenzene	0.764	0.720	5.8	100	0.00	16.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5E36584.D appIX01-13-2023_.M Fri Jan 13 14:55:05 2023

Continuing Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1659-CC1647
Lab FileID: 5E36826.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\01-23-2023\5E36826.D Vial: 2
Acq On : 23 Jan 2023 9:15 am Operator: joannel
Sample : CC1647-5 Inst : MSVOA20
Misc : MS53151,V5E1659,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...pIX01-13-2023_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Fri Jan 13 14:00:16 2023
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	115	0.00	8.95
2		Dichlorodifluoromethane	0.257	0.220	14.4	106	0.00	2.85
			Amount	Calc.	%Drift			
3	P	Chloromethane	40.000	39.308	1.7	114	0.00	3.22
			AvgRF	CCRF	%Dev			
4	C	Vinyl Chloride	0.280	0.283	-1.1	120	0.00	3.37
			Amount	Calc.	%Drift			
5		1,3-Butadiene	40.000	64.819	-62.0#	219	0.00	3.40
6		Bromomethane	40.000	32.686	18.3	91	0.00	3.94
7		Chloroethane	40.000	37.212	7.0	113	0.00	4.15
			AvgRF	CCRF	%Dev			
8		Trichlorofluoromethane	0.398	0.387	2.8	119	0.00	4.39
9		Ethyl Ether	0.227	0.219	3.5	112	0.00	4.87
10		Ethanol	0.002	0.002	0.0	127	0.00	5.10
11		1,2-Dichlorotrifluoroetha	0.314	0.306	2.5	121	0.00	5.15
12	C	1,1-Dichloroethene	0.359	0.336	6.4	114	0.00	5.16
13		Freon 113	0.263	0.229	12.9	111	0.00	5.22
			Amount	Calc.	%Drift			
14		Carbon Disulfide	40.000	35.171	12.1	105	0.00	5.21
15		Iodomethane	40.000	24.181	39.5#	66	0.00	5.37
16		Acrolein	200.000	234.244	-17.1	137	0.00	5.63
			AvgRF	CCRF	%Dev			
17		Allyl chloride	0.314	0.368	-17.2	140	0.00	5.82
			Amount	Calc.	%Drift			
18		Methylene Chloride	40.000	42.521	-6.3	127	0.00	5.96
			AvgRF	CCRF	%Dev			
19		Acetone	0.079	0.091	-15.2	126	0.00	6.02
20		Methyl acetate	0.177	0.195	-10.2	122	0.00	6.17
21		trans-1,2-Dichloroethene	0.364	0.369	-1.4	125	0.00	6.17
22		Hexane	0.240	0.222	7.5	123	0.00	6.26
23		Methyl Tert Butyl Ether	0.793	0.778	1.9	117	0.00	6.29
24		Acetonitrile	0.029	0.031	-6.9	120	0.00	6.62
25		Di-isopropyl ether	0.804	0.875	-8.8	131	0.00	6.75

Continuing Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1659-CC1647
Lab FileID: 5E36826.D

			Amount	Calc.	%Drift			
26		Chloroprene	40.000	45.685	-14.2	136	0.00	6.91
			AvgRF	CCRF	%Dev			
27	P	1,1-Dichloroethane	0.484	0.496	-2.5	127	0.00	6.94
28		Acrylonitrile	0.093	0.105	-12.9	128	0.00	6.99
29		ETBE	0.848	0.900	-6.1	126	0.00	7.19
30		Tert Butyl Alcohol	0.031	0.033	-6.5	116	0.00	6.40
31		Vinyl acetate	0.506	0.638	-26.1#	141	0.00	7.21
32		cis-1,2-Dichloroethene	0.276	0.271	1.8	117	0.00	7.58
33		2,2-Dichloropropane	0.399	0.415	-4.0	127	0.00	7.70
34		Bromochloromethane	0.138	0.131	5.1	114	0.00	7.81
			Amount	Calc.	%Drift			
35		Cyclohexane	40.000	40.635	-1.6	124	0.00	7.82
			AvgRF	CCRF	%Dev			
36	C	Chloroform	0.484	0.487	-0.6	123	0.00	7.87
37		Ethyl acetate	0.252	0.300	-19.0	133	0.00	7.98
38		Tetrahydrofuran	0.080	0.085	-6.3	122	0.00	8.07
39	S	Dibromofluoromethane	0.282	0.282	0.0	114	0.00	8.07
40		Carbon Tetrachloride	0.371	0.367	1.1	121	0.00	8.05
41		1,1,1-Trichloroethane	0.424	0.421	0.7	123	0.00	8.12
42		2-Butanone	0.120	0.147	-22.5#	127	0.00	8.20
43		1,1-Dichloropropene	0.351	0.357	-1.7	124	0.00	8.26
44		tert-Butyl formate	0.119	0.144	-21.0#	140	0.00	8.35
45		Propionitrile	0.042	0.046	-9.5	119	0.00	8.53
46		Methacrylonitrile	0.180	0.209	-16.1	133	0.00	8.55
47		Benzene	1.020	1.012	0.8	122	0.00	8.52
48		TAME	0.764	0.797	-4.3	122	0.00	8.60
49	S	1,2-Dichloroethane-d4	0.324	0.346	-6.8	125	0.00	8.66
50		1,2-Dichloroethane	0.389	0.423	-8.7	129	0.00	8.74
51		tert Amyl alcohol	0.025	0.028	-12.0	120	0.00	8.79
52		Trichloroethene	0.278	0.281	-1.1	125	0.00	9.13
53		Methylcyclohexane	0.439	0.428	2.5	129	0.00	9.13
54		Dibromomethane	0.186	0.189	-1.6	119	0.00	9.58
55	C	1,2-Dichloropropane	0.274	0.292	-6.6	128	0.00	9.67
56		Bromodichloromethane	0.355	0.378	-6.5	125	0.00	9.72
			Amount	Calc.	%Drift			
57		Methyl methacrylate	40.000	46.596	-16.5	135	0.00	9.84
			AvgRF	CCRF	%Dev			
58		1,4-Dioxane	0.003	0.003	0.0	105	0.00	9.92
59		2-Chloroethyl vinyl ether	0.125	0.139	-11.2	128	0.00	10.26
60		cis-1,3-Dichloropropene	0.403	0.440	-9.2	126	0.00	10.35
61	I	Chlorobenzene-d5	1.000	1.000	0.0	120	0.00	12.11
62	S	Toluene-d8	1.364	1.343	1.5	118	0.00	10.54
63	C	Toluene	1.504	1.447	3.8	124	0.00	10.60
64		Isobutyl alcohol	0.015	0.017	-13.3	127	0.00	8.67
65		2-Nitropropane	0.102	0.126	-23.5#	143	0.00	10.83
66		4-Methyl-2-pentanone	0.354	0.418	-18.1	132	0.00	10.94
67		trans-1,3-Dichloropropene	0.470	0.511	-8.7	126	0.00	10.99
68		Tetrachloroethene	0.430	0.404	6.0	122	0.00	11.00
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	41.402	-3.5	123	0.00	11.10
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FC1886 **Sample:** V5E1659-CC1647
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 5E36826.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

			Amount	Calc.	%Drift			
75		2-hexanone	200.000	229.362	-14.7	133	0.00	11.76

			AvgRF	CCRF	%Dev			
76		1-Chlorohexane	0.480	0.489	-1.9	128	0.00	12.05
77	C	Ethylbenzene	1.722	1.686	2.1	127	0.00	12.12
78	P	Chlorobenzene	0.986	0.949	3.8	122	0.00	12.13
79		1,1,1,2-Tetrachloroethane	0.365	0.356	2.5	120	0.00	12.18
80		m,p-Xylene	1.324	1.331	-0.5	127	0.00	12.26
81		o-Xylene	1.295	1.288	0.5	124	0.00	12.70
82		Styrene	0.965	0.972	-0.7	122	0.00	12.76
83	P	Bromoform	0.280	0.284	-1.4	117	0.00	12.82
84		Isopropylbenzene	1.649	1.661	-0.7	128	0.00	13.01
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	122	0.00	14.47
86	S	4-Bromofluorobenzene	0.832	0.851	-2.3	126	0.00	13.32
87		cis-1,4-Dichloro-2-butene	0.187	0.207	-10.7	131	0.00	13.68
88		n-Propylbenzene	3.395	3.376	0.6	131	0.00	13.43
89		Bromobenzene	0.765	0.706	7.7	118	0.00	13.46
90	P	1,1,2,2-Tetrachloroethane	0.808	0.783	3.1	119	0.00	13.49
91		1,3,5-Trimethylbenzene	2.404	2.378	1.1	127	0.00	13.61
92		2-Chlorotoluene	2.221	2.152	3.1	128	0.00	13.62
93		trans-1,4-Dichloro-2-Bute	0.187	0.207	-10.7	131	0.00	13.68
94		1,2,3-Trichloropropane	0.245	0.234	4.5	116	0.00	13.66

			Amount	Calc.	%Drift			
95		Cyclohexanone	200.000	202.622	-1.3	117	0.00	13.74

			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	1.996	1.982	0.7	127	0.00	13.79
97		a-Methyl styrene		----------NA----------				
98		tert-Butylbenzene	1.328	1.346	-1.4	134	0.00	13.95
99		1,2,4-Trimethylbenzene	2.345	2.341	0.2	127	0.00	14.02

			Amount	Calc.	%Drift			
100		Pentachloroethane	40.000	39.349	1.6	120	0.00	14.01

			AvgRF	CCRF	%Dev			
101		sec-Butylbenzene	2.852	2.854	-0.1	133	0.00	14.13
102		4-Isopropyltoluene	2.477	2.496	-0.8	130	0.00	14.26
103		1,3-Dichlorobenzene	1.379	1.287	6.7	120	0.00	14.40
104		1,2,3-Trimethylbenzene	2.370	2.311	2.5	126	0.00	14.47
105		1,4-Dichlorobenzene	1.479	1.356	8.3	119	0.00	14.48
106		n-Butylbenzene	1.336	1.427	-6.8	135	0.00	14.68

			Amount	Calc.	%Drift			
107		Benzyl Chloride	40.000	41.226	-3.1	122	0.00	14.71

			AvgRF	CCRF	%Dev			
108		1,2-Dichlorobenzene	1.324	1.238	6.5	118	0.00	14.90
109		1,2-Dibromo-3-Chloropropa	0.143	0.146	-2.1	119	0.00	15.63
110		Hexachlorobutadiene	0.399	0.396	0.8	133	0.00	16.17
111		1,2,4-Trichlorobenzene	0.888	0.848	4.5	119	0.00	16.22
112		Naphthalene	2.137	1.947	8.9	110	0.00	16.52

Continuing Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1659-CC1647
Lab FileID: 5E36826.D

113	1,2,3-Trichlorobenzene	0.764	0.721	5.6	117	0.00	16.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5E36584.D appIX01-13-2023_.M Mon Jan 23 09:34:57 2023

Continuing Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1659-ECC1647
Lab FileID: 5E36853.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\anndg\1-24\V5E1659\5E36853.d Vial: 29
Acq On : 23 Jan 2023 7:42 pm Operator: joannel
Sample : ECC1647-5 Inst : MSVOA20
Misc : MS53190,V5E1659,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...pIX01-13-2023_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Fri Jan 13 14:00:16 2023
Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Fluorobenzene	1.000	1.000	0.0	108	0.00	8.95
2	Dichlorodifluoromethane	0.257	0.226	12.1	103	0.00	2.85
	---------- True	Calc.	% Drift	----------			
3 P	Chloromethane	40.000	40.548	-1.4	111	0.00	3.22
	---------- AvgRF	CCRF	% Dev	----------			
4 C	Vinyl Chloride	0.280	0.283	-1.1	113	0.00	3.37
	---------- True	Calc.	% Drift	----------			
5	1,3-Butadiene	40.000	77.356	-93.4#	246	0.00	3.40
6	Bromomethane	40.000	30.225	24.4	79	0.00	3.95
7	Chloroethane	40.000	37.456	6.4	108	0.00	4.15
	---------- AvgRF	CCRF	% Dev	----------			
8	Trichlorofluoromethane	0.398	0.391	1.8	113	0.00	4.38
9	Ethyl Ether	0.227	0.216	4.8	105	0.00	4.87
10	Ethanol	0.002	0.003	-50.0	182	0.00	5.10
11	1,2-Dichlorotrifluoroetha	0.314	0.305	2.9	114	0.00	5.15
12 C	1,1-Dichloroethene	0.359	0.328	8.6	105	0.00	5.16
13	Freon 113	0.263	0.221	16.0	101	0.00	5.22
	---------- True	Calc.	% Drift	----------			
14	Carbon Disulfide	40.000	32.282	19.3	91	0.00	5.21
15	Iodomethane	40.000	31.298	21.8	82	0.00	5.37
16	Acrolein	200.000	231.155	-15.6	127	0.00	5.63
	---------- AvgRF	CCRF	% Dev	----------			
17	Allyl chloride	0.314	0.370	-17.8	133	0.00	5.82
	---------- True	Calc.	% Drift	----------			
18	Methylene Chloride	40.000	44.171	-10.4	124	0.00	5.96
	---------- AvgRF	CCRF	% Dev	----------			
19	Acetone	0.079	0.088	-11.4	115	0.00	6.02
20	Methyl acetate	0.177	0.198	-11.9	117	0.00	6.17
21	trans-1,2-Dichloroethene	0.364	0.360	1.1	115	0.00	6.17
22	Hexane	0.240	0.209	12.9	109	0.00	6.26
23	Methyl Tert Butyl Ether	0.793	0.760	4.2	108	0.00	6.29
24	Acetonitrile	0.029	0.032	-10.3	120	0.00	6.62
25	Di-isopropyl ether	0.804	0.884	-10.0	124	0.00	6.75

Continuing Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1659-ECC1647
Lab FileID: 5E36853.D

			True	Calc.	% Drift			
26		Chloroprene	40.000	45.999	-15.0	129	0.00	6.91
			AvgRF	CCRF	% Dev			
27	P	1,1-Dichloroethane	0.484	0.499	-3.1	120	0.00	6.94
28		Acrylonitrile	0.093	0.111	-19.4	127	0.00	6.99
29		ETBE	0.848	0.895	-5.5	118	0.00	7.19
30		Tert Butyl Alcohol	0.031	0.033	-6.5	108	0.00	6.40
31		Vinyl acetate	0.506	0.647	-27.9	135	0.00	7.21
32		cis-1,2-Dichloroethene	0.276	0.271	1.8	110	0.00	7.58
33		2,2-Dichloropropane	0.399	0.373	6.5	107	0.00	7.70
34		Bromochloromethane	0.138	0.132	4.3	108	0.00	7.81
			True	Calc.	% Drift			
35		Cyclohexane	40.000	41.040	-2.6	119	0.00	7.82
			AvgRF	CCRF	% Dev			
36	C	Chloroform	0.484	0.495	-2.3	118	0.00	7.87
37		Ethyl acetate	0.252	0.310	-23.0	129	0.00	7.98
38		Tetrahydrofuran	0.080	0.087	-8.7	117	0.00	8.07
39	S	Dibromofluoromethane	0.282	0.283	-0.4	108	0.00	8.08
40		Carbon Tetrachloride	0.371	0.356	4.0	111	0.00	8.05
41		1,1,1-Trichloroethane	0.424	0.413	2.6	113	0.00	8.12
42		2-Butanone	0.120	0.147	-22.5	120	0.00	8.20
43		1,1-Dichloropropene	0.351	0.348	0.9	114	0.00	8.25
44		tert-Butyl formate	0.119	0.139	-16.8	128	0.00	8.35
45		Propionitrile	0.042	0.049	-16.7	118	0.00	8.53
46		Methacrylonitrile	0.180	0.220	-22.2	132	0.00	8.55
47		Benzene	1.020	1.021	-0.1	116	0.00	8.52
48		TAME	0.764	0.797	-4.3	115	0.00	8.60
49	S	1,2-Dichloroethane-d4	0.324	0.355	-9.6	121	0.00	8.66
50		1,2-Dichloroethane	0.389	0.425	-9.3	122	0.00	8.74
51		tert Amyl alcohol	0.025	0.027	-8.0	110	0.00	8.79
52		Trichloroethene	0.278	0.284	-2.2	119	0.00	9.13
53		Methylcyclohexane	0.439	0.415	5.5	117	0.00	9.13
54		Dibromomethane	0.186	0.185	0.5	110	0.00	9.58
55	C	1,2-Dichloropropane	0.274	0.294	-7.3	122	0.00	9.67
56		Bromodichloromethane	0.355	0.381	-7.3	119	0.00	9.72
			True	Calc.	% Drift			
57		Methyl methacrylate	40.000	47.306	-18.3	129	0.00	9.84
			AvgRF	CCRF	% Dev			
58		1,4-Dioxane	0.003	0.003	0.0	97	0.00	9.91
59		2-Chloroethyl vinyl ether	0.125	0.142	-13.6	124	0.00	10.26
60		cis-1,3-Dichloropropene	0.403	0.430	-6.7	116	0.00	10.35
61	I	Chlorobenzene-d5	1.000	1.000	0.0	115	0.00	12.11
62	S	Toluene-d8	1.364	1.327	2.7	112	0.00	10.54
63	C	Toluene	1.504	1.422	5.5	117	0.00	10.60
64		Isobutyl alcohol	0.015	0.017	-13.3	123	0.00	8.67
65		2-Nitropropane	0.102	0.121	-18.6	133	0.00	10.83
66		4-Methyl-2-pentanone	0.354	0.414	-16.9	126	0.00	10.94
67		trans-1,3-Dichloropropene	0.470	0.488	-3.8	116	0.00	10.99
68		Tetrachloroethene	0.430	0.394	8.4	115	0.00	11.00
			True	Calc.	% Drift			
69		Ethyl methacrylate	40.000	40.726	-1.8	116	0.00	11.10
			AvgRF	CCRF	% Dev			

Continuing Calibration Summary

Job Number: FC1886 **Sample:** V5E1659-ECC1647
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 5E36853.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

			True	Calc.	% Drift			
70		1,1,2-Trichloroethane	0.288	0.277	3.8	114	0.00	11.16
71		Dibromochloromethane	0.404	0.383	5.2	109	0.00	11.36
72		1,3-Dichloropropane	0.587	0.567	3.4	116	0.00	11.45
73		1,2-Dibromoethane	0.359	0.344	4.2	111	0.00	11.62
74		3,3-Dimethyl-1-butanol	0.037	0.038	-2.7	114	0.00	11.71
			True	Calc.	% Drift			
75		2-hexanone	200.000	220.890	-10.4	123	0.00	11.76
			AvgRF	CCRF	% Dev			
76		1-Chlorohexane	0.480	0.464	3.3	117	0.00	12.05
77	C	Ethylbenzene	1.722	1.666	3.3	121	0.00	12.12
78	P	Chlorobenzene	0.986	0.934	5.3	116	0.00	12.13
79		1,1,1,2-Tetrachloroethane	0.365	0.347	4.9	113	0.00	12.18
80		m,p-Xylene	1.324	1.310	1.1	121	0.00	12.26
81		o-Xylene	1.295	1.261	2.6	117	0.00	12.70
82		Styrene	0.965	0.970	-0.5	117	0.00	12.76
83	P	Bromoform	0.280	0.269	3.9	107	0.00	12.82
84		Isopropylbenzene	1.649	1.592	3.5	119	0.00	13.01
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	117	0.00	14.47
86	S	4-Bromofluorobenzene	0.832	0.862	-3.6	122	0.00	13.32
87		cis-1,4-Dichloro-2-butene	0.187	0.194	-3.7	118	0.00	13.68
88		n-Propylbenzene	3.395	3.260	4.0	121	0.00	13.43
89		Bromobenzene	0.765	0.695	9.2	111	0.00	13.45
90	P	1,1,2,2-Tetrachloroethane	0.808	0.766	5.2	112	0.00	13.49
91		1,3,5-Trimethylbenzene	2.404	2.300	4.3	118	0.00	13.60
92		2-Chlorotoluene	2.221	2.140	3.6	121	0.00	13.62
93		trans-1,4-Dichloro-2-Bute	0.187	0.194	-3.7	118	0.00	13.68
94		1,2,3-Trichloropropane	0.245	0.232	5.3	110	0.00	13.66
			True	Calc.	% Drift			
95		Cyclohexanone	200.000	208.412	-4.2	116	0.00	13.74
			AvgRF	CCRF	% Dev			
96		4-Chlorotoluene	1.996	1.947	2.5	120	0.00	13.79
97		a-Methyl styrene		----------NA----------				
98		tert-Butylbenzene	1.328	1.278	3.8	122	0.00	13.95
99		1,2,4-Trimethylbenzene	2.345	2.271	3.2	118	0.00	14.02
			True	Calc.	% Drift			
100		Pentachloroethane	40.000	37.072	7.3	108	0.00	14.00
			AvgRF	CCRF	% Dev			
101		sec-Butylbenzene	2.852	2.650	7.1	118	0.00	14.13
102		4-Isopropyltoluene	2.477	2.312	6.7	115	0.00	14.26
103		1,3-Dichlorobenzene	1.379	1.248	9.5	111	0.00	14.40
104		1,2,3-Trimethylbenzene	2.370	2.276	4.0	119	0.00	14.47
105		1,4-Dichlorobenzene	1.479	1.326	10.3	111	0.00	14.48
106		n-Butylbenzene	1.336	1.279	4.3	116	0.00	14.68
			True	Calc.	% Drift			
107		Benzyl Chloride	40.000	34.717	13.2	96	0.00	14.71
			AvgRF	CCRF	% Dev			
108		1,2-Dichlorobenzene	1.324	1.200	9.4	110	0.00	14.90
109		1,2-Dibromo-3-Chloropropa	0.143	0.145	-1.4	113	0.00	15.63
110		Hexachlorobutadiene	0.399	0.335	16.0	108	0.00	16.16
111		1,2,4-Trichlorobenzene	0.888	0.789	11.1	106	0.00	16.22
112		Naphthalene	2.137	1.885	11.8	102	0.00	16.52

Continuing Calibration Summary

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V5E1659-ECC1647
Lab FileID: 5E36853.D

113	1,2,3-Trichlorobenzene	0.764	0.669	12.4	104	0.00	16.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5E36584.D appIX01-13-2023_.M Tue Jan 24 02:52:58 2023

Run Sequence Report

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V1P3655 **Method:** SW846 8260D **Instrument ID:** GCMS1P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V1P3655-BFB	1P96678.D	12/29/22 09:43	n/a	BFB Tune
V1P3655-IC3655	1P96680.D	12/29/22 10:38	n/a	Initial cal 1
V1P3655-IC3655	1P96682.D	12/29/22 11:32	n/a	Initial cal 2
V1P3655-IC3655	1P96684.D	12/29/22 12:04	n/a	Initial cal 3
V1P3655-IC3655	1P96686.D	12/29/22 12:35	n/a	Initial cal 4
V1P3655-ICC3655	1P96690.D	12/29/22 13:38	n/a	Initial cal 5
V1P3655-IC3655	1P96692.D	12/29/22 14:10	n/a	Initial cal 6
V1P3655-IC3655	1P96694.D	12/29/22 14:41	n/a	Initial cal 7
V1P3655-ICV3655	1P96698.D	12/29/22 15:45	n/a	Initial cal verification 5
V1P3655-ICV3655	1P96700.D	12/29/22 16:16	n/a	Initial cal verification 4

Run Sequence Report

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V1P3666 **Method:** SW846 8260D **Instrument ID:** GCMS1P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V1P3666-BFB	1P97239.D	01/19/23 10:46	n/a	BFB Tune
V1P3666-CC3655	1P97239.D	01/19/23 10:46	n/a	Continuing cal 5
V1P3666-BS	1P97241.D	01/19/23 11:17	n/a	Blank Spike
V1P3666-MB	1P97245.D	01/19/23 12:20	n/a	Method Blank
FC1987-1	1P97251.D	01/19/23 13:55	n/a	(used for QC only; not part of job FC1886)
FC1886-1	1P97255.D	01/19/23 15:02	n/a	FDSA-TB-000.0-20230113
ZZZZZZ	1P97257.D	01/19/23 15:33	n/a	(unrelated sample)
ZZZZZZ	1P97259.D	01/19/23 16:04	n/a	(unrelated sample)
ZZZZZZ	1P97261.D	01/19/23 16:36	n/a	(unrelated sample)
ZZZZZZ	1P97263.D	01/19/23 17:07	n/a	(unrelated sample)
ZZZZZZ	1P97265.D	01/19/23 17:39	n/a	(unrelated sample)
ZZZZZZ	1P97267.D	01/19/23 18:10	n/a	(unrelated sample)
ZZZZZZ	1P97271.D	01/19/23 19:13	n/a	(unrelated sample)
FC1987-1MS	1P97283.D	01/19/23 22:21	n/a	Matrix Spike
FC1987-1MSD	1P97284.D	01/19/23 22:47	n/a	Matrix Spike Duplicate
V1P3666-ECC3655	1P97285.D	01/19/23 23:13	n/a	Ending cal 5

Run Sequence Report

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V5E1647 **Method:** SW846 8260D **Instrument ID:** GCMS5E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5E1647-BFB	5E36579.D	01/13/23 09:41	n/a	BFB Tune
V5E1647-IC1647	5E36580.D	01/13/23 10:14	n/a	Initial cal 1
V5E1647-IC1647	5E36581.D	01/13/23 10:38	n/a	Initial cal 2
V5E1647-IC1647	5E36582.D	01/13/23 11:01	n/a	Initial cal 3
V5E1647-IC1647	5E36583.D	01/13/23 11:24	n/a	Initial cal 4
V5E1647-ICC1647	5E36584.D	01/13/23 11:47	n/a	Initial cal 5
V5E1647-IC1647	5E36585.D	01/13/23 12:11	n/a	Initial cal 6
V5E1647-IC1647	5E36586.D	01/13/23 12:34	n/a	Initial cal 7
V5E1647-ICV1647	5E36590.D	01/13/23 14:34	n/a	Initial cal verification 5
V5E1647-CC1647	5E36590A.D	01/13/23 14:34	n/a	Continuing cal 5
V5E1647-BS	5E36592.D	01/13/23 15:20	n/a	Blank Spike
V5E1647-MB	5E36594.D	01/13/23 16:06	n/a	Method Blank
ZZZZZZ	5E36599.D	01/13/23 18:03	n/a	(unrelated sample)
ZZZZZZ	5E36600.D	01/13/23 18:26	n/a	(unrelated sample)
ZZZZZZ	5E36601.D	01/13/23 18:50	n/a	(unrelated sample)
ZZZZZZ	5E36602.D	01/13/23 19:13	n/a	(unrelated sample)
ZZZZZZ	5E36603.D	01/13/23 19:36	n/a	(unrelated sample)
ZZZZZZ	5E36604.D	01/13/23 19:59	n/a	(unrelated sample)
FC1857-2	5E36605.D	01/13/23 20:23	n/a	(used for QC only; not part of job FC1886)
FC1857-2MS	5E36606.D	01/13/23 20:46	n/a	Matrix Spike
FC1857-2MSD	5E36607.D	01/13/23 21:09	n/a	Matrix Spike Duplicate
V5E1647-ECC1647	5E36608.D	01/13/23 21:33	n/a	Ending cal 5

Run Sequence Report

Job Number: FC1886
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V5E1659 **Method:** SW846 8260D **Instrument ID:** GCMS5E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5E1659-BFB	5E36826.D	01/23/23 09:15	n/a	BFB Tune
V5E1659-CC1647	5E36826.D	01/23/23 09:15	n/a	Continuing cal 5
V5E1659-BS	5E36827.D	01/23/23 09:38	n/a	Blank Spike
V5E1659-MB	5E36830.D	01/23/23 10:47	n/a	Method Blank
FC1990-4	5E36831.D	01/23/23 11:11	n/a	(used for QC only; not part of job FC1886)
ZZZZZZ	5E36832.D	01/23/23 11:34	n/a	(unrelated sample)
ZZZZZZ	5E36833.D	01/23/23 11:57	n/a	(unrelated sample)
ZZZZZZ	5E36834.D	01/23/23 12:21	n/a	(unrelated sample)
ZZZZZZ	5E36835.D	01/23/23 12:44	n/a	(unrelated sample)
ZZZZZZ	5E36836.D	01/23/23 13:07	n/a	(unrelated sample)
ZZZZZZ	5E36837.D	01/23/23 13:30	n/a	(unrelated sample)
FC1886-2	5E36838.D	01/23/23 13:54	n/a	FDSA-MW0059-015.0-20230113
ZZZZZZ	5E36839.D	01/23/23 14:17	n/a	(unrelated sample)
ZZZZZZ	5E36840.D	01/23/23 14:40	n/a	(unrelated sample)
ZZZZZZ	5E36841.D	01/23/23 15:03	n/a	(unrelated sample)
ZZZZZZ	5E36842.D	01/23/23 15:27	n/a	(unrelated sample)
ZZZZZZ	5E36843.D	01/23/23 15:50	n/a	(unrelated sample)
ZZZZZZ	5E36844.D	01/23/23 16:13	n/a	(unrelated sample)
ZZZZZZ	5E36845.D	01/23/23 16:37	n/a	(unrelated sample)
ZZZZZZ	5E36846.D	01/23/23 17:00	n/a	(unrelated sample)
ZZZZZZ	5E36847.D	01/23/23 17:23	n/a	(unrelated sample)
ZZZZZZ	5E36848.D	01/23/23 17:46	n/a	(unrelated sample)
ZZZZZZ	5E36849.D	01/23/23 18:09	n/a	(unrelated sample)
ZZZZZZ	5E36850.D	01/23/23 18:33	n/a	(unrelated sample)
FC1990-4MS	5E36851.D	01/23/23 18:56	n/a	Matrix Spike
FC1990-4MSD	5E36852.D	01/23/23 19:19	n/a	Matrix Spike Duplicate
V5E1659-ECC1647	5E36853.D	01/23/23 19:42	n/a	Ending cal 5

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97255.D
Acq On : 19 Jan 2023 3:02 pm
Operator : joannel
Sample : FC1886-1
Misc : MS53194,V1P3666,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 20 00:02:13 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		3.716	96	928795	50.00	ug/L	0.00
62) Chlorobenzene-d5		5.639	117	702181	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4		7.328	152	306412	50.00	ug/L	0.00
System Monitoring Compounds							
39) Dibromofluoromethane		3.261	113	195678	49.11	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	98.22%		
49) 1,2-Dichloroethane-d4		3.548	65	286109	53.46	ug/L	0.00
Spiked Amount	50.000	Range 79 - 125		Recovery =	106.92%		
63) Toluene-d8		4.646	98	958088	48.11	ug/L	0.00
Spiked Amount	50.000	Range 85 - 112		Recovery =	96.22%		
86) 4-Bromofluorobenzene		6.492	174	222640	45.26	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	90.52%		

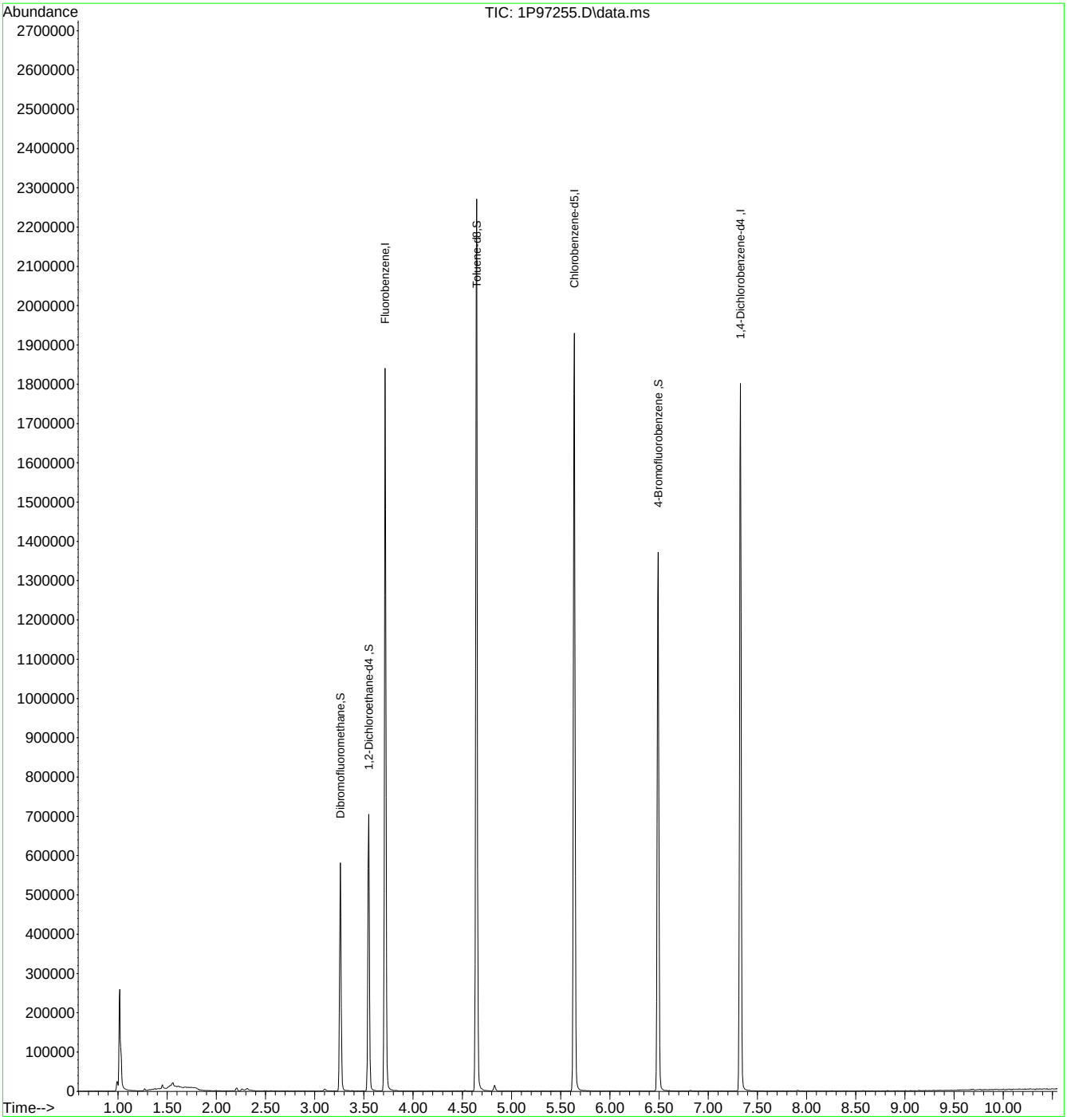
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97255.D
Acq On : 19 Jan 2023 3:02 pm
Operator : joannel
Sample : FC1886-1
Misc : MS53194,V1P3666,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 20 00:02:13 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\anndg\1-24\V5E1659\
Data File : 5E36838.d
Acq On : 23 Jan 2023 1:54 pm
Operator : joannel
Sample : FC1886-2 10X Inst : MSVOA20
Misc : MS53194,V5E1659,,,,,10
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Results File: appIX01-13-2023_.RES
Quant Time: Jan 24 02:33:58 2023
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

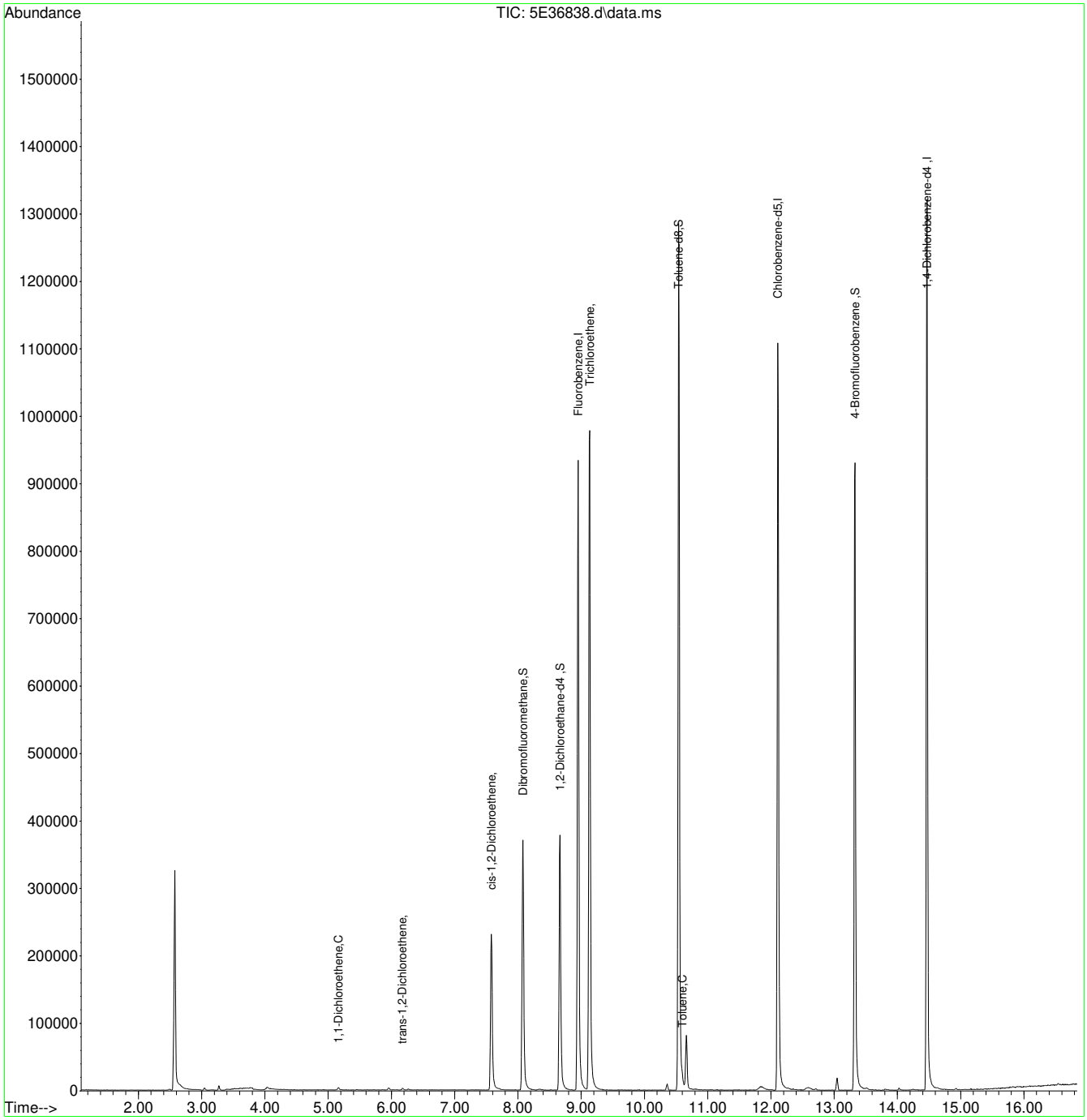
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	738802	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	579143	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	327848	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.079	113	207212	49.68	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.36%			
49) 1,2-Dichloroethane-d4	8.665	65	255499	53.41	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.82%			
62) Toluene-d8	10.542	98	774287	48.99	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.98%			
86) 4-Bromofluorobenzene	13.328	95	289501	53.04	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.08%			
Target Compounds						Qvalue
12) 1,1-Dichloroethene	5.159	61	2510	0.47	ug/L	96
21) trans-1,2-Dichloroethene	6.171	61	1801	0.34	ug/L #	79
32) cis-1,2-Dichloroethene	7.579	96	102274	25.04	ug/L	93
52) Trichloroethene	9.134	95	303126	73.67	ug/L	98
63) Toluene	10.597	91	6500	0.37	ug/L	92

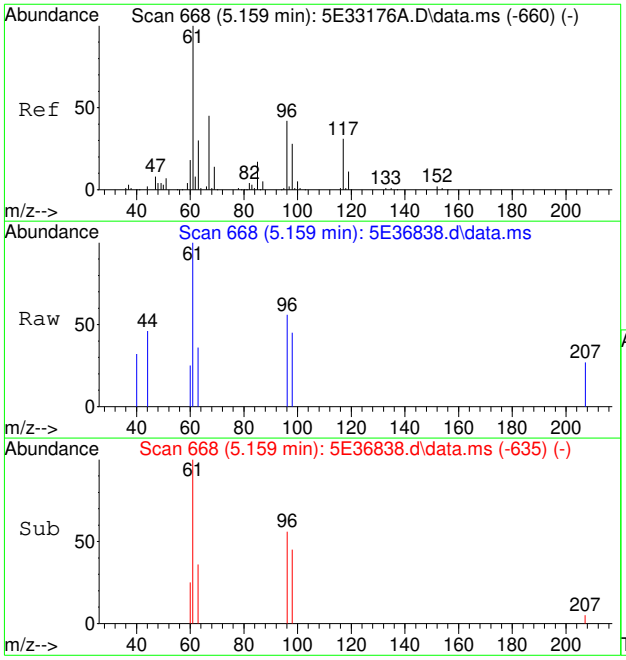
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\anndg\1-24\V5E1659\
Data File : 5E36838.d
Acq On : 23 Jan 2023 1:54 pm
Operator : joannel
Sample : FC1886-2 10X Inst : MSVOA20
Misc : MS53194,V5E1659,,,,,10
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Results File: appIX01-13-2023_.RES
Quant Time: Jan 24 02:33:58 2023
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

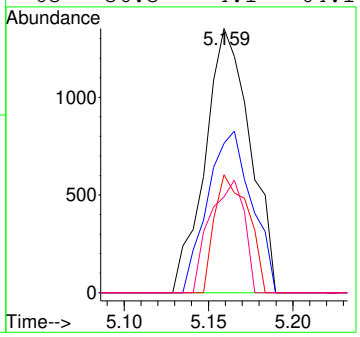


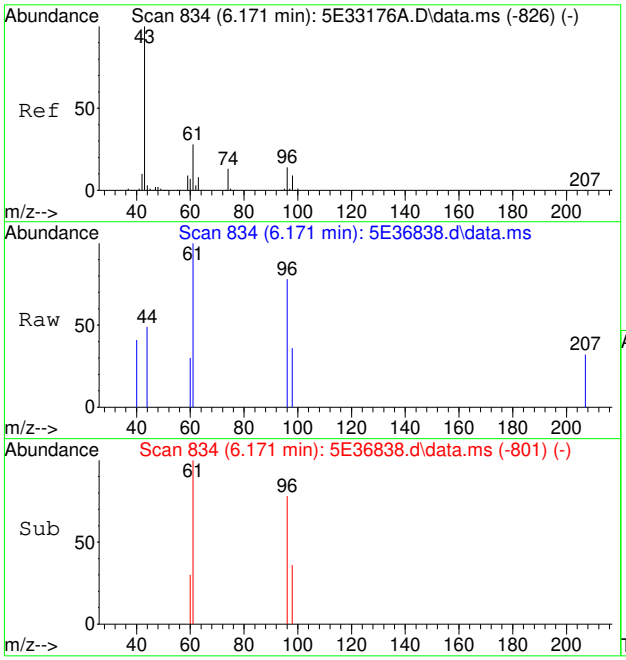


#12
1,1-Dichloroethene
Concen: 0.47 ug/L
RT: 5.159 min Scan# 668
Delta R.T. 0.000 min
Lab File: 5E36838.d
Acq: 23 Jan 2023 1:54 pm

Tgt Ion: 61 Resp: 2510

Ion	Ratio	Lower	Upper
61	100		
96	56.5	28.1	88.1
98	44.6	9.7	69.7
63	36.3	4.1	64.1

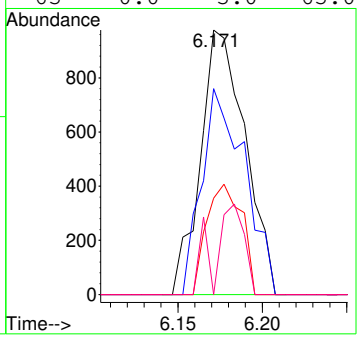


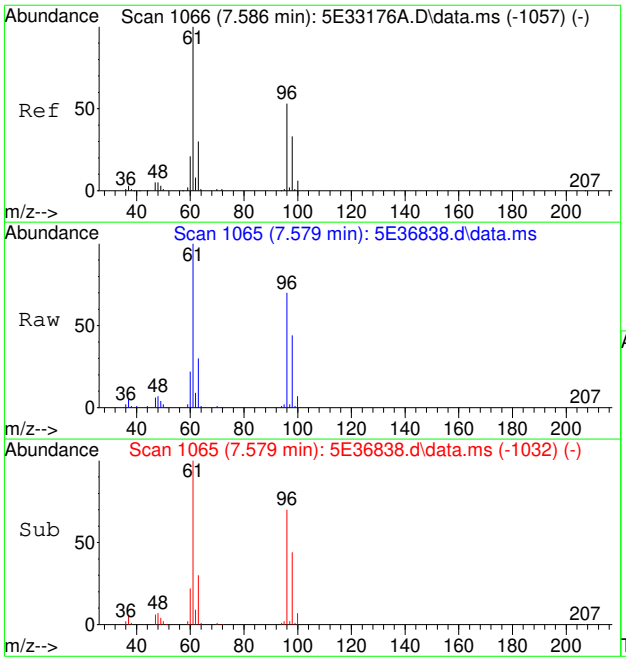


#21
trans-1,2-Dichloroethene
Concen: 0.34 ug/L
RT: 6.171 min Scan# 834
Delta R.T. 0.000 min
Lab File: 5E36838.d
Acq: 23 Jan 2023 1:54 pm

Tgt Ion: 61 Resp: 1801

Ion	Ratio	Lower	Upper
61	100		
96	77.8	39.6	99.6
98	36.4	12.6	72.6
63	0.0	3.0	63.0#

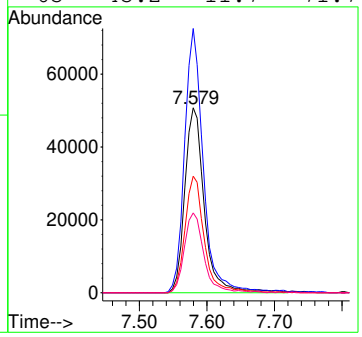


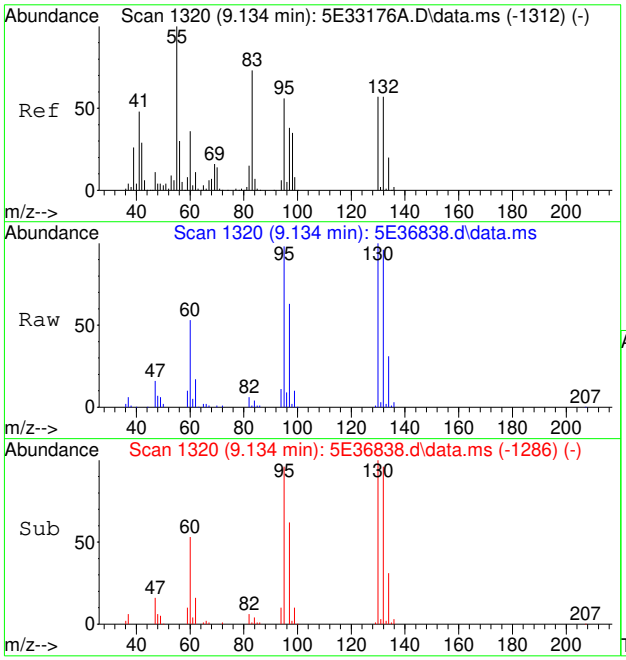


#32
cis-1,2-Dichloroethene
Concen: 25.04 ug/L
RT: 7.579 min Scan# 1065
Delta R.T. 0.000 min
Lab File: 5E36838.d
Acq: 23 Jan 2023 1:54 pm

Tgt Ion: 96 Resp: 102274

Ion	Ratio	Lower	Upper
96	100		
61	142.9	99.4	159.4
98	63.0	33.3	93.3
63	43.2	11.7	71.7

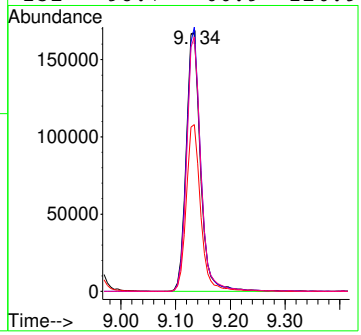


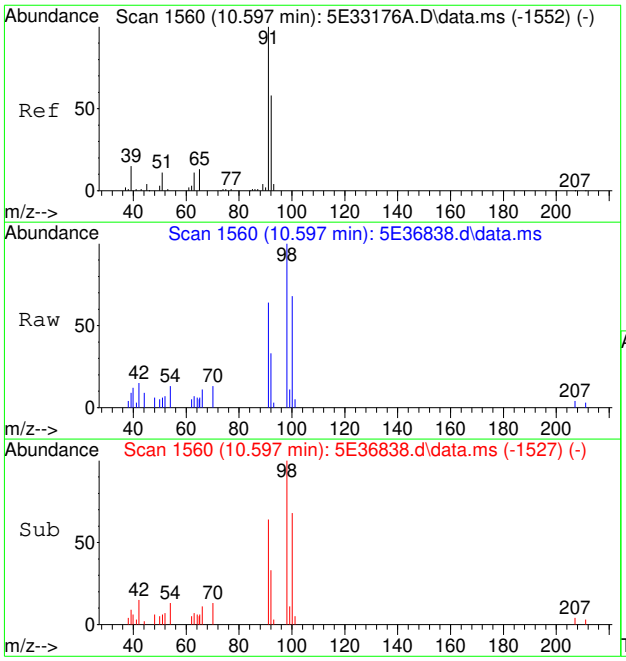


#52
Trichloroethene
Concen: 73.67 ug/L
RT: 9.134 min Scan# 1320
Delta R.T. 0.006 min
Lab File: 5E36838.d
Acq: 23 Jan 2023 1:54 pm

Tgt Ion: 95 Resp: 303126

Ion	Ratio	Lower	Upper
95	100		
130	102.5	74.3	134.3
97	64.7	36.9	96.9
132	98.7	66.9	126.9

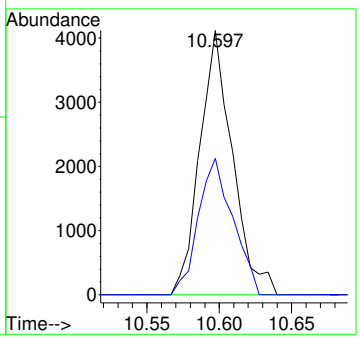




#63
Toluene
Concen: 0.37 ug/L
RT: 10.597 min Scan# 1560
Delta R.T. 0.000 min
Lab File: 5E36838.d
Acq: 23 Jan 2023 1:54 pm

Tgt Ion: 91 Resp: 6500

Ion	Ratio	Lower	Upper
91	100		
92	51.6	27.9	87.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97245.D
Acq On : 19 Jan 2023 12:20 pm
Operator : joannel
Sample : MB
Misc : MS53143,V1P3666,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 19 14:18:05 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

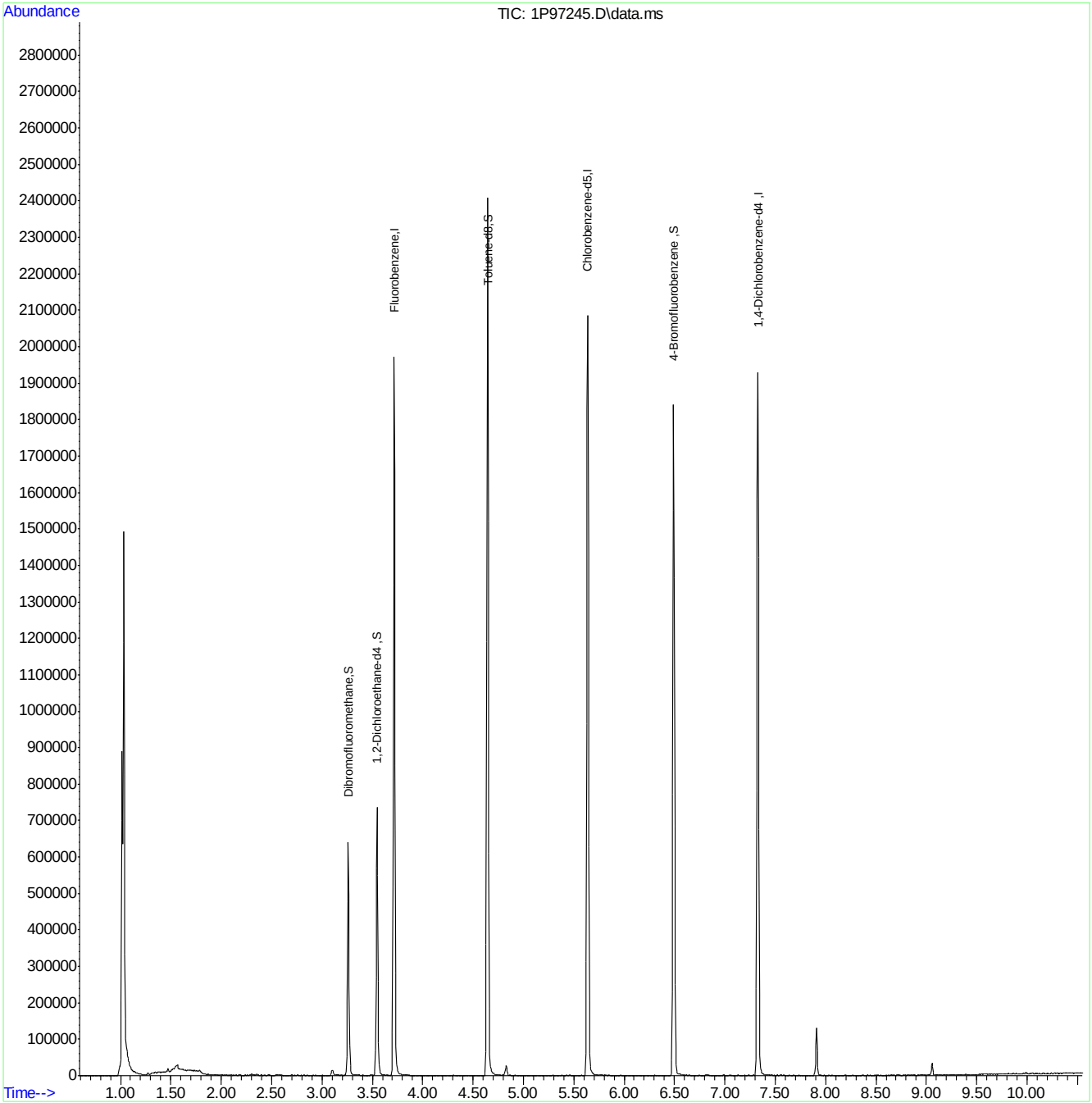
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.715	96	1015921	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.639	117	760816	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.328	152	334362	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.260	113	214658	49.25	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.50%			
49) 1,2-Dichloroethane-d4	3.548	65	294793	50.36	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.72%			
63) Toluene-d8	4.646	98	1037870	48.10	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.20%			
86) 4-Bromofluorobenzene	6.491	174	259831	48.41	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.82%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97245.D
Acq On : 19 Jan 2023 12:20 pm
Operator : joannel
Sample : MB
Misc : MS53143,V1P3666,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 19 14:18:05 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\anndg\1-24\V5E1659\
Data File : 5E36830.d
Acq On : 23 Jan 2023 10:47 am
Operator : joannel
Sample : MB Inst : MSVOA20
Misc : MS53151,V5E1659,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Results File: appIX01-13-2023_.RES
Quant Time: Jan 24 02:17:49 2023
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

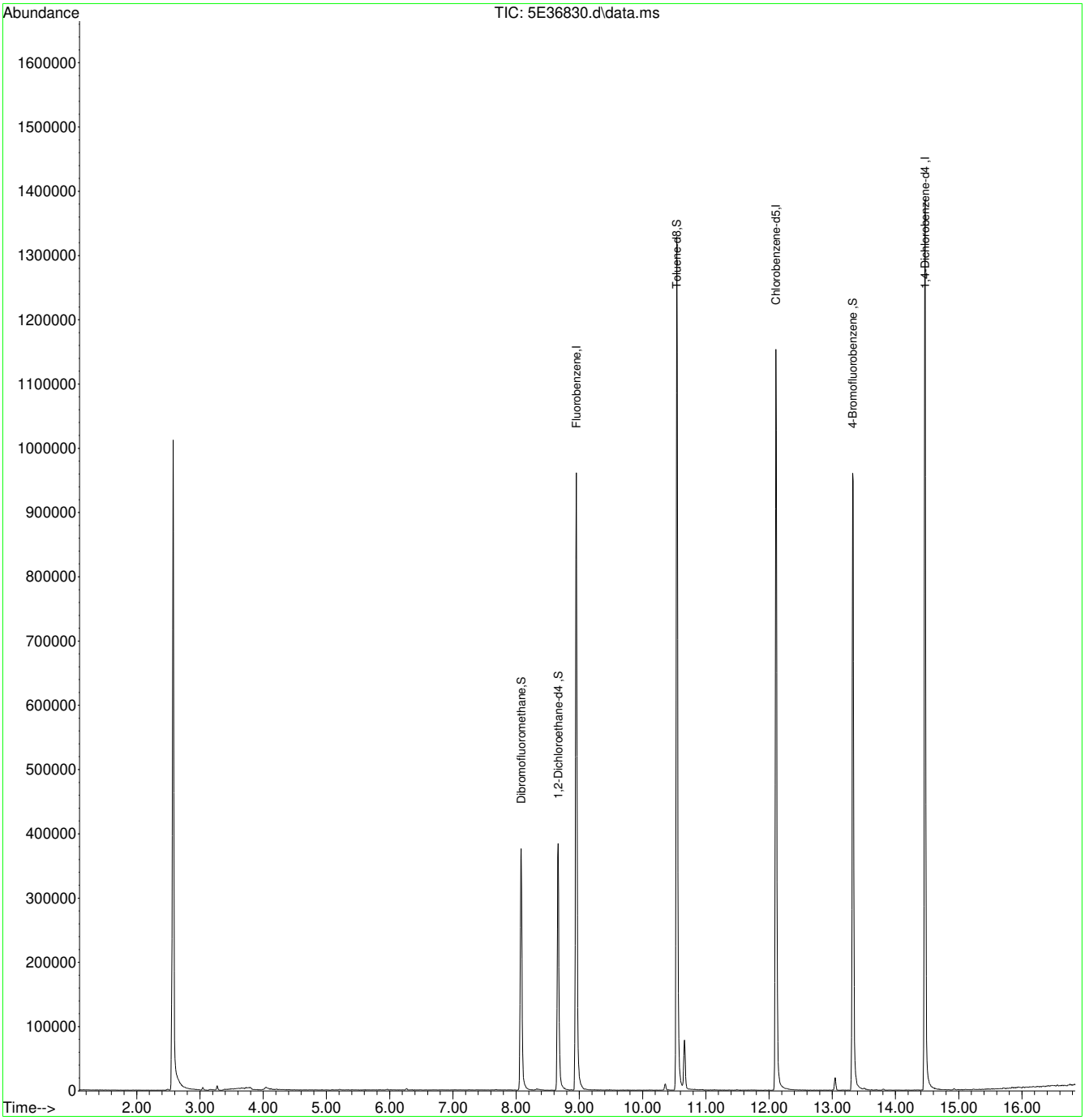
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	763658	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	598083	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	338295	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.079	113	217476	50.45	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.90%			
49) 1,2-Dichloroethane-d4	8.665	65	262942	53.18	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.36%			
62) Toluene-d8	10.542	98	799849	49.01	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.02%			
86) 4-Bromofluorobenzene	13.322	95	298960	53.08	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.16%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\anndg\1-24\V5E1659\
Data File : 5E36830.d
Acq On : 23 Jan 2023 10:47 am
Operator : joannel
Sample : MB Inst : MSVOA20
Misc : MS53151,V5E1659,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Results File: appIX01-13-2023_.RES
Quant Time: Jan 24 02:17:49 2023
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/19/23 15:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97241.D
Acq On : 19 Jan 2023 11:17 am
Operator : joannel
Sample : BS
Misc : MS53143,V1P3667,,,,,10
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 19 15:03:04 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.714	96	1159580	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.638	117	892856	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.327	152	415733	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.259	113	255577	51.38	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.76%			
49) 1,2-Dichloroethane-d4	3.547	65	333826	49.96	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.92%			
63) Toluene-d8	4.645	98	1157261	45.70	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 91.40%			
86) 4-Bromofluorobenzene	6.490	174	306907	45.99	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 91.98%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	80688	21.24	ug/L	94
3) Chloromethane	1.247	50	96846	23.79	ug/L	98
4) 1,3-butadiene	1.315	39	133662	54.73	ug/L	100
5) Vinyl Chloride	1.304	62	109019	27.21	ug/L	98
6) Bromomethane	1.508	94	85982	39.35	ug/L	98
7) Chloroethane	1.581	64	55567	34.73	ug/L	98
8) Trichlorofluoromethane	1.670	101	190489	34.45	ug/L	97
9) Ethyl Ether	1.874	59	121613	30.78	ug/L	96
10) Ethanol	1.963	45	53019	556.05	ug/L	93
11) 1,2-Dichlorotrifluoroe...	1.973	67	124464	27.03	ug/L	96
12) 1,1-Dichloroethene	1.979	61	161262	28.49	ug/L	96
13) Freon 113	2.010	101	98011	28.24	ug/L	95
14) Carbon Disulfide	2.000	76	293273	28.91	ug/L	97
15) Iodomethane	2.057	142	90618	24.80	ug/L	98
16) Acrolein	2.151	56	183387	130.78	ug/L	98
17) Allyl chloride	2.245	41	169772	29.60	ug/L	99
18) Methylene Chloride	2.298	49	143320	28.99	ug/L	100
19) Acetone	2.313	43	389027	151.00	ug/L	97
20) Methyl acetate	2.392	43	915998	163.83	ug/L	100
21) trans-1,2-Dichloroethene	2.397	61	165626	29.16	ug/L	98
22) Hexane	2.465	56	86771	27.01	ug/L	96
23) Methyl Tert Butyl Ether	2.465	73	402197	29.71	ug/L	96
24) Tert Butyl Alcohol	2.507	59	385704	307.47	ug/L	99
25) Acetonitrile	2.548	41	331606m	284.37	ug/L	
26) Di-isopropyl ether	2.684	45	400217	30.43	ug/L	99
27) Chloroprene	2.726	53	585595	30.98	ug/L	99
28) 1,1-Dichloroethane	2.726	63	225933	30.89	ug/L	97
29) Acrylonitrile	2.726	52	385686	154.33	ug/L	98
30) ETBE	2.878	59	387019	29.57	ug/L	98
31) Vinyl acetate	2.857	43	1692942	176.88	ug/L	99
32) cis-1,2-Dichloroethene	3.019	96	133424	30.03	ug/L	98
33) 2,2-Dichloropropane	3.082	77	165387	26.09	ug/L	98
34) Bromochloromethane	3.124	128	54459	29.27	ug/L	91
35) Cyclohexane	3.160	56	186178	28.98	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97241.D
Acq On : 19 Jan 2023 11:17 am
Operator : joannel
Sample : BS
Misc : MS53143,V1P3667,,,,,10
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 19 15:03:04 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.165	83	224322	29.68	ug/L		100
37) Ethyl acetate	3.223	43	1167456	166.00	ug/L		99
38) Tetrahydrofuran	3.254	42	91247	31.86	ug/L		99
40) Carbon Tetrachloride	3.265	117	134184m	28.00	ug/L		
41) 1,1,1-Trichloroethane	3.291	97	177272	27.86	ug/L		99
42) 2-Butanone	3.312	43	670611	146.08	ug/L		98
43) 1,1-Dichloropropene	3.359	75	164813	27.64	ug/L		96
44) tert-Butyl formate	3.406	59	307972	112.15	ug/L		100
45) Propionitrile	3.458	54	363436	290.64	ug/L		99
46) Methacrylonitrile	3.479	41	1288535	297.38	ug/L		99
47) Benzene	3.490	78	552219	29.98	ug/L		87
48) TAME	3.563	73	389754	30.39	ug/L		99
50) Isobutyl alcohol	3.589	43	227737m	350.62	ug/L		
51) 1,2-Dichloroethane	3.584	62	169652	28.22	ug/L		96
52) Tert Amyl Alcohol	3.646	59	304706	305.25	ug/L		96
53) Trichloroethene	3.824	95	127280	27.81	ug/L		97
54) Methylcyclohexane	3.840	83	185059	29.56	ug/L		99
55) Dibromomethane	4.049	93	72691	27.87	ug/L		95
56) 1,2-Dichloropropane	4.106	63	117738	27.63	ug/L		97
57) Bromodichloromethane	4.143	83	147000	29.93	ug/L		100
58) Methyl methacrylate	4.232	41	147961	28.92	ug/L		99
59) 1,4-Dioxane	4.258	88	67624	671.33	ug/L		97
60) 2-Chloroethyl vinyl ether	4.472	63	499135	138.01	ug/L		98
61) cis-1,3-Dichloropropene	4.519	75	184481	28.21	ug/L		99
64) Toluene	4.676	91	546269	24.62	ug/L		99
65) 2-Nitropropane	4.770	41	109289	100.53	ug/L		93
66) 4-Methyl-2-pentanone	4.885	43	1123331	127.46	ug/L		99
67) trans-1,3-Dichloropropene	4.917	75	176454	26.53	ug/L		91
68) Tetrachloroethene	4.932	166	117983	23.60	ug/L		99
69) Ethyl methacrylate	5.027	69	178999	23.12	ug/L		95
70) 1,1,2-Trichloroethane	5.016	83	94615	25.35	ug/L		98
71) Dibromochloromethane	5.136	129	92089	25.25	ug/L		98
72) 1,3-Dichloropropane	5.189	76	196017	23.85	ug/L		98
73) 1,2-Dibromoethane	5.293	107	112199	24.43	ug/L		95
74) 3,3-dimethyl-1-butanol	5.424	57	1273330	1019.59	ug/L		97
75) 2-hexanone	5.429	43	1099798	124.42	ug/L	#	77
76) 1-Chlorohexane	5.680	91	748234m	111.67	ug/L		
77) Ethylbenzene	5.680	91	581378	25.47	ug/L		99
78) Chlorobenzene	5.649	112	320316	25.36	ug/L		97
79) 1,1,1,2-Tetrachloroethane	5.691	131	100178	25.92	ug/L		96
80) m,p-Xylene	5.779	91	895856	50.42	ug/L		99
81) o-Xylene	6.072	91	460634	26.17	ug/L		97
82) Styrene	6.104	104	341565	25.08	ug/L		98
83) Bromoform	6.114	173	53144	26.33	ug/L		99
84) Isopropylbenzene	6.302	105	517176	24.90	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.522	53	47724	19.17	ug/L	#	87
88) n-Propylbenzene	6.605	91	598428	24.22	ug/L		99
89) Bromobenzene	6.569	156	110769	21.86	ug/L		95
90) 1,1,2,2-Tetrachloroethane	6.626	83	169315	25.04	ug/L		99
91) 1,3,5-Trimethylbenzene	6.752	105	407040	23.54	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97241.D
Acq On : 19 Jan 2023 11:17 am
Operator : joannel
Sample : BS
Misc : MS53143,V1P3667,,,,,10
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 19 15:03:04 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

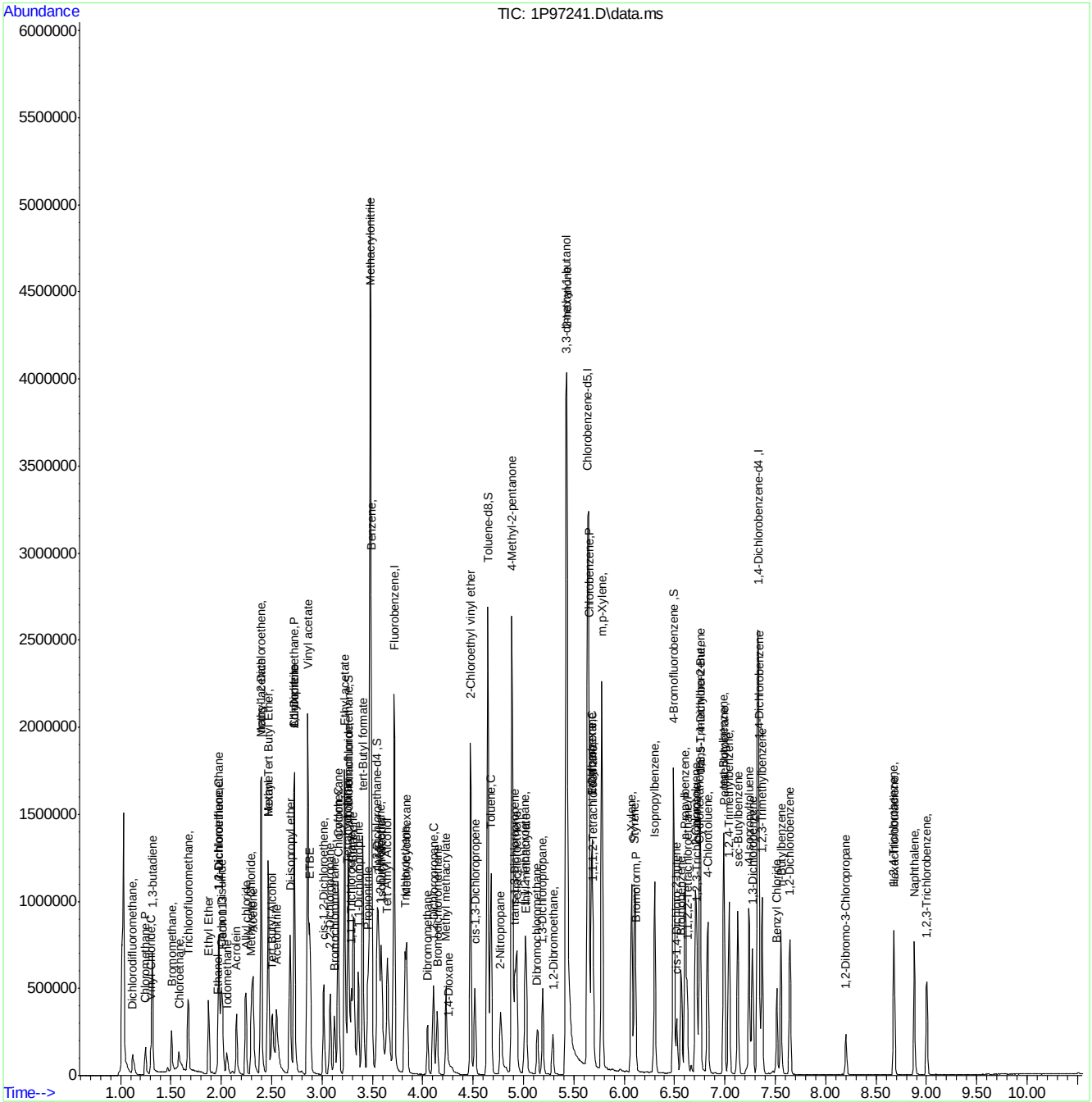
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.710	91	351523	23.69	ug/L		97
93)	trans-1,4-Dichloro-2-B...	6.752	53	60861	24.15	ug/L		92
94)	1,2,3-Trichloropropane	6.720	110	57983	23.06	ug/L		98
95)	Cyclohexanone	6.747	55	51934	123.63	ug/L		95
96)	4-Chlorotoluene	6.830	91	377225	24.49	ug/L		99
97)	tert-Butylbenzene	6.987	91	223645	23.44	ug/L		98
99)	1,2,4-Trimethylbenzene	7.039	105	395365	24.10	ug/L		98
100)	Pentachloroethane	6.992	167	53856	23.96	ug/L	#	83
101)	sec-Butylbenzene	7.128	105	474339	24.92	ug/L		99
102)	4-Isopropyltoluene	7.238	119	408668	25.35	ug/L		99
103)	1,3-Dichlorobenzene	7.275	146	215883	23.57	ug/L		98
104)	1,2,3-Trimethylbenzene	7.369	105	413563	25.78	ug/L		98
105)	1,4-Dichlorobenzene	7.337	146	224070	23.69	ug/L		94
106)	n-Butylbenzene	7.557	92	182381	23.98	ug/L		100
107)	Benzyl Chloride	7.515	126	46561	21.21	ug/L	#	79
108)	1,2-Dichlorobenzene	7.646	146	203489	23.77	ug/L		96
109)	1,2-Dibromo-3-Chloropr...	8.200	75	38012	23.84	ug/L		94
110)	Hexachlorobutadiene	8.681	225	36634	21.46	ug/L		88
111)	1,2,4-Trichlorobenzene	8.676	180	98060	21.25	ug/L		98
112)	Naphthalene	8.880	128	355720	21.45	ug/L		99
113)	1,2,3-Trichlorobenzene	9.005	180	98332	22.33	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97241.D
Acq On : 19 Jan 2023 11:17 am
Operator : joannel
Sample : BS
Misc : MS53143,V1P3667,,,,,10
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 19 15:03:04 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration



Manual Integration Approval Summary

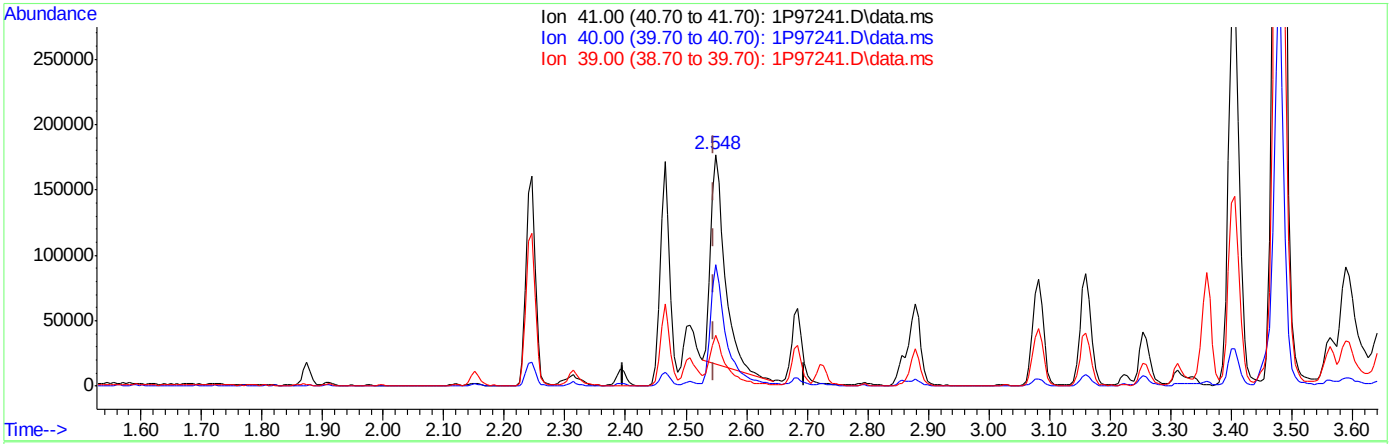
Sample Number: V1P3666-BS
Lab FileID: 1P97241.D
Injection Time: 01/19/23 11:17
Method: SW846 8260D
Analyst approved: 01/19/23 15:23 Neil Christiana
Supervisor approved: 01/19/23 15:31 Karen Watson

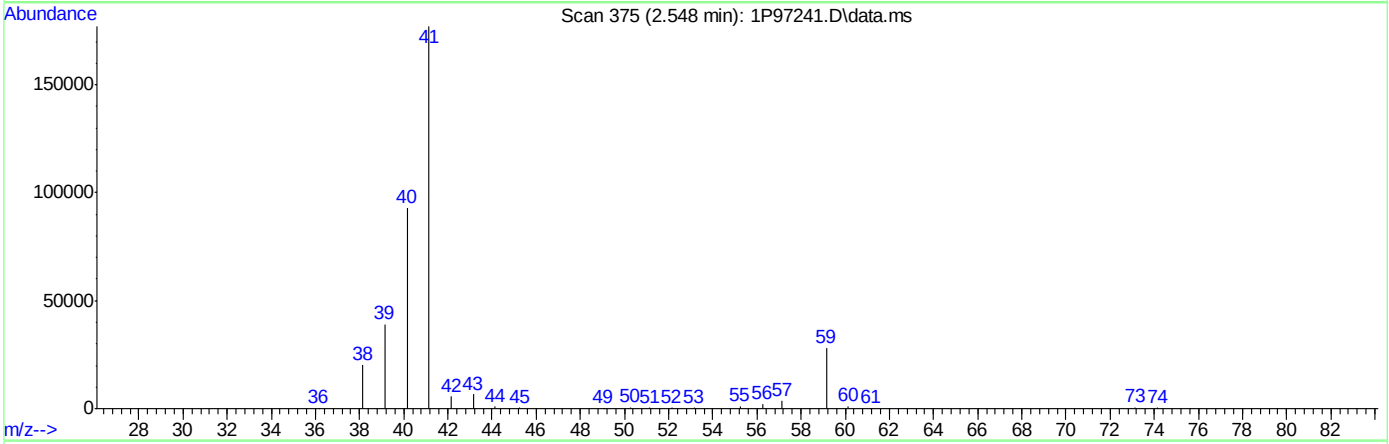
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.55	Overlapping peak
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Overlapping peak
1-Chlorohexane	544-10-5		5.68	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97241.D
Acq On : 19 Jan 2023 11:17 am
Operator : joannel
Sample : BS
Misc : MS53143,V1P3666,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 19 15:02:21 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97241.D\data.ms

(25) Acetonitrile

2.548min (+0.002) 217.02ug/L

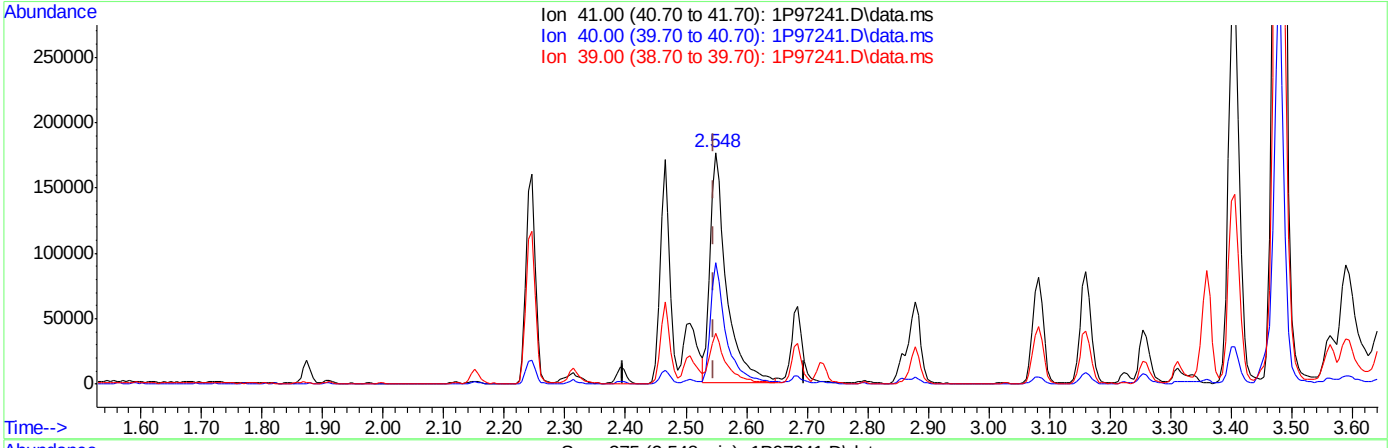
response 253066

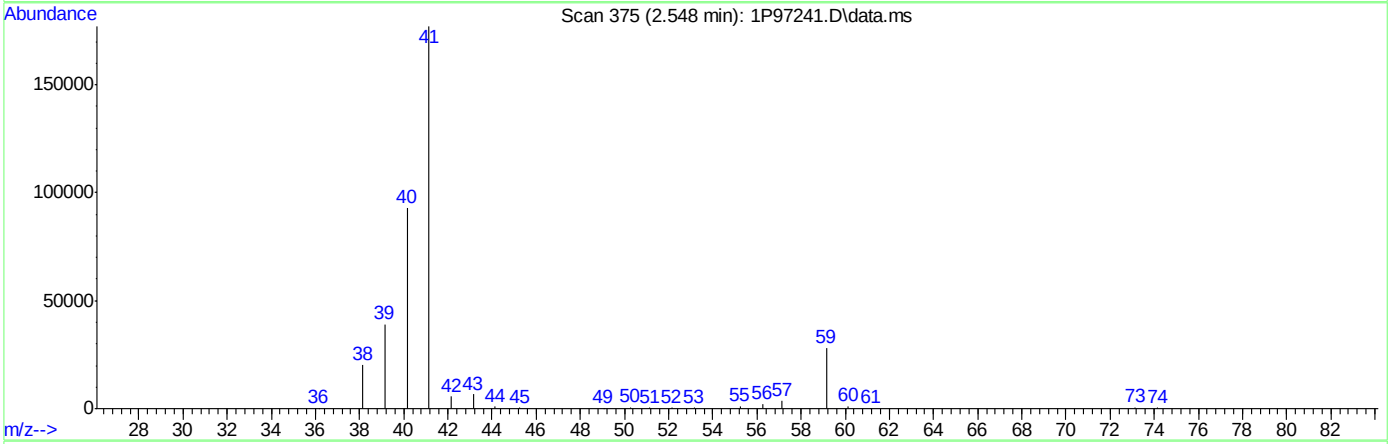
Ion	Exp%	Act%
41.00	100	100
40.00	51.10	52.47
39.00	21.10	21.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97241.D
Acq On : 19 Jan 2023 11:17 am
Operator : joannel
Sample : BS
Misc : MS53143,V1P3666,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 19 15:02:21 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97241.D\data.ms

(25) Acetonitrile

2.548min (+0.002) 284.37ug/L m

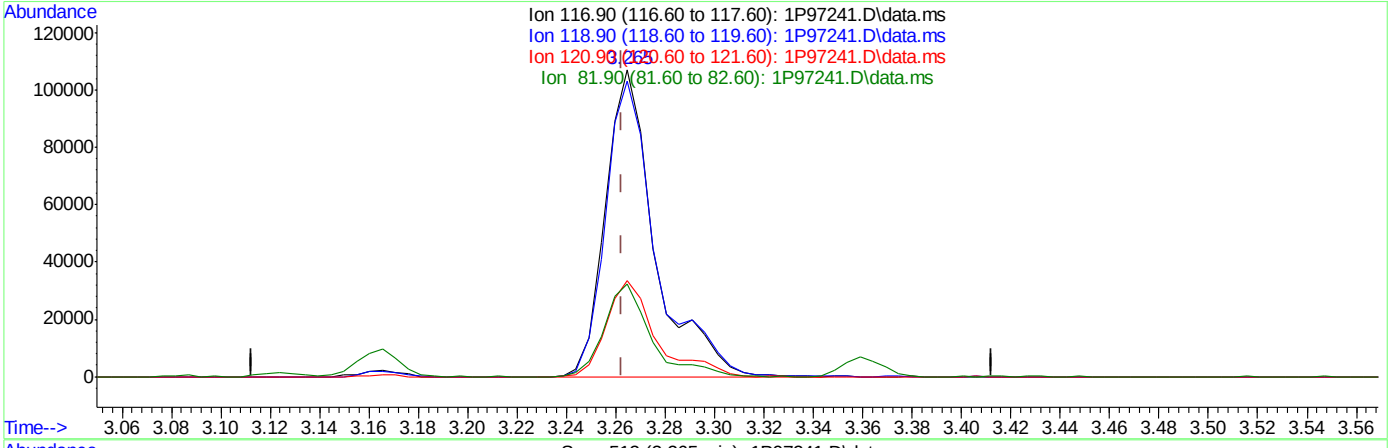
response 331606

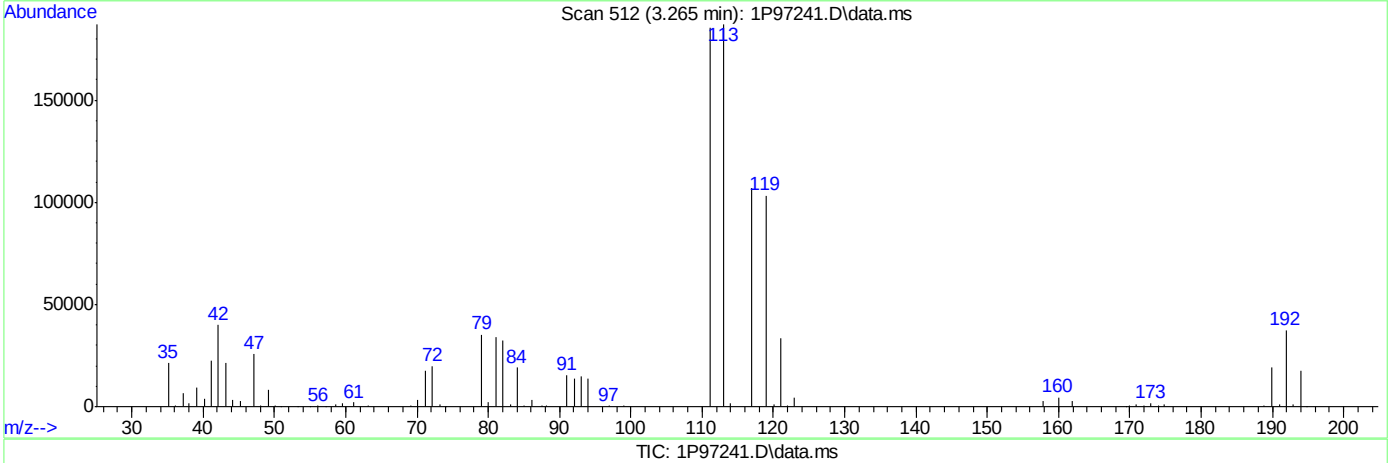
Ion	Exp%	Act%
41.00	100	100
40.00	51.10	52.48
39.00	21.10	22.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97241.D
Acq On : 19 Jan 2023 11:17 am
Operator : joannel
Sample : BS
Misc : MS53143,V1P3666,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 19 15:02:21 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97241.D\data.ms

(40) Carbon Tetrachloride ( )

3.265min (+0.002) 31.26ug/L

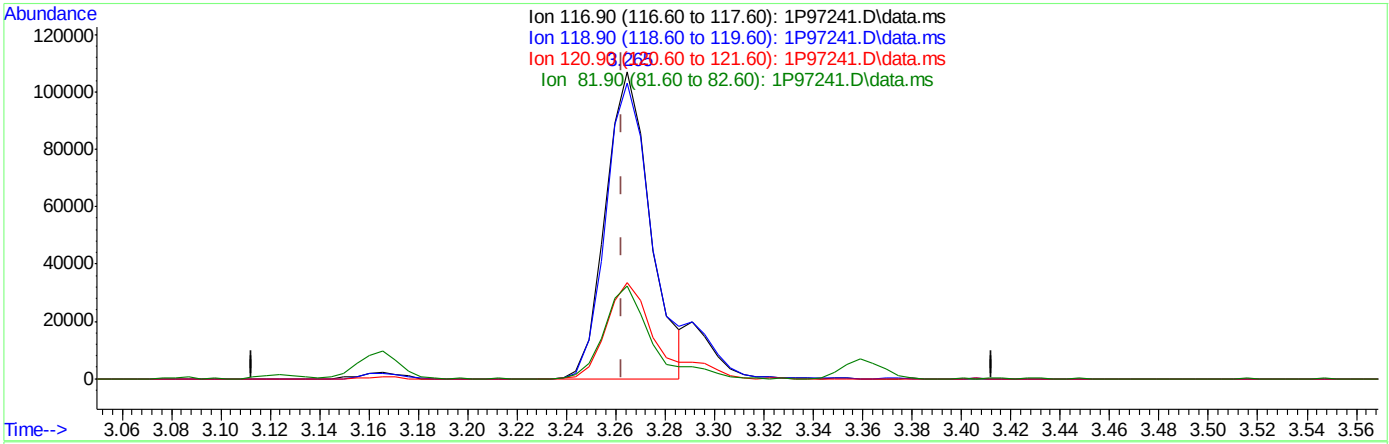
response 149818

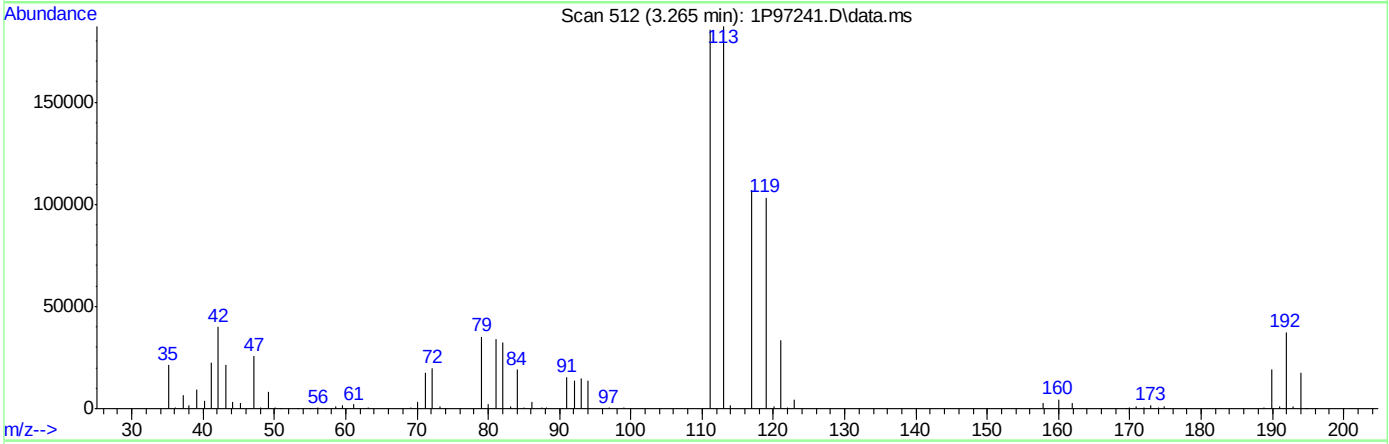
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	96.40
120.90	29.70	31.28
81.90	28.20	30.04

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97241.D
Acq On : 19 Jan 2023 11:17 am
Operator : joannel
Sample : BS
Misc : MS53143,V1P3666,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 19 15:02:21 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97241.D\data.ms

(40) Carbon Tetrachloride ( )

3.265min (+0.002) 28.00ug/L m

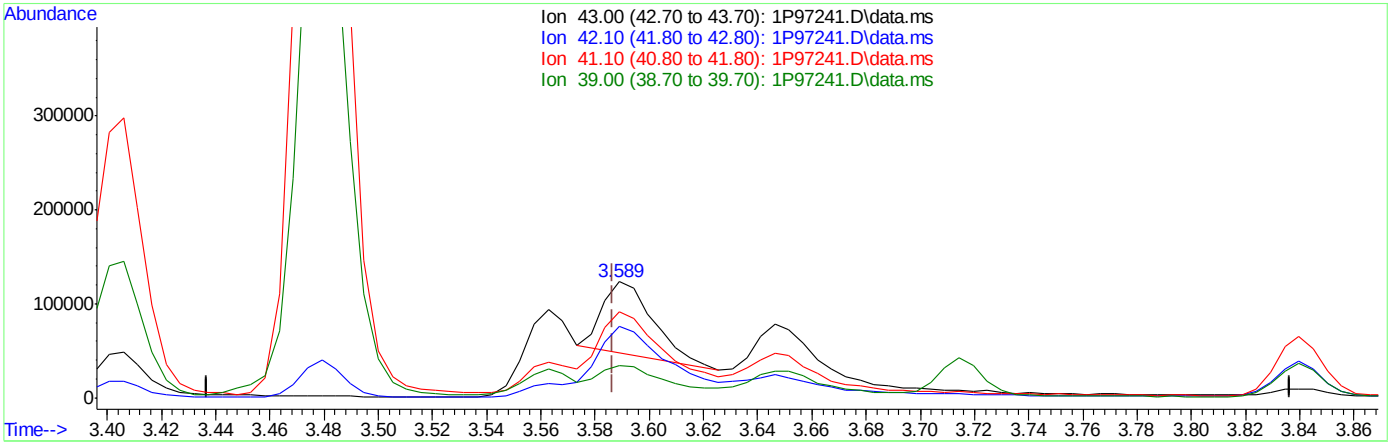
response 134184

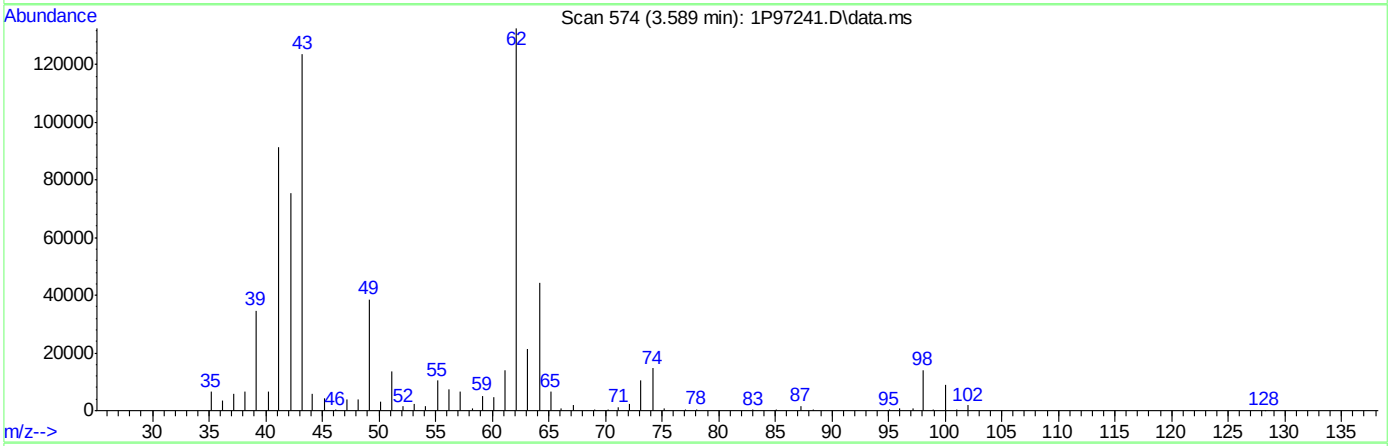
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	96.40
120.90	29.70	31.28
81.90	28.20	30.04

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97241.D
Acq On : 19 Jan 2023 11:17 am
Operator : joannel
Sample : BS
Misc : MS53143,V1P3666,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 19 15:02:21 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97241.D\data.ms

(50) Isobutyl alcohol

3.589min (+0.002) 146.69ug/L

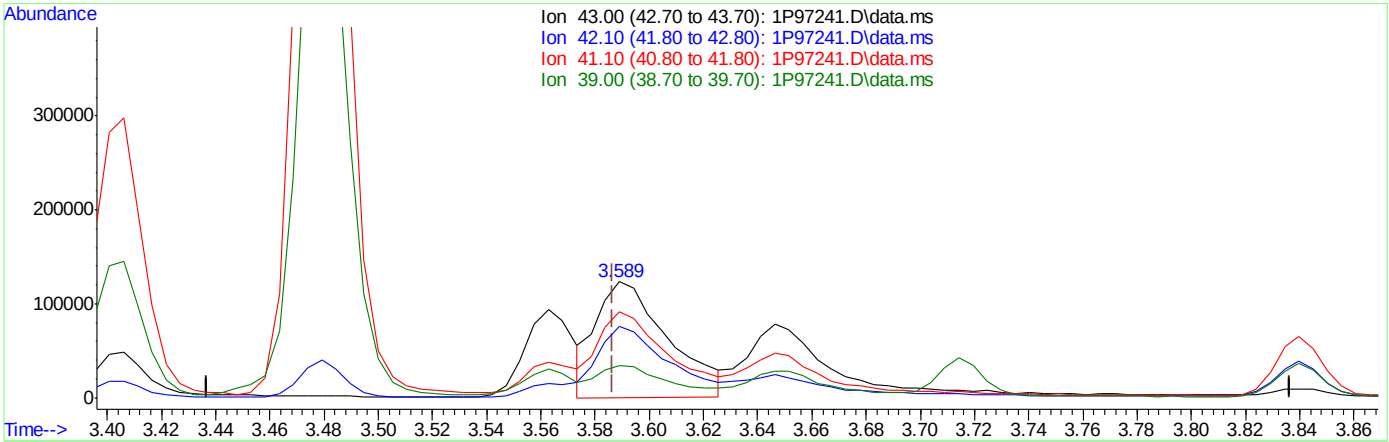
response 95277

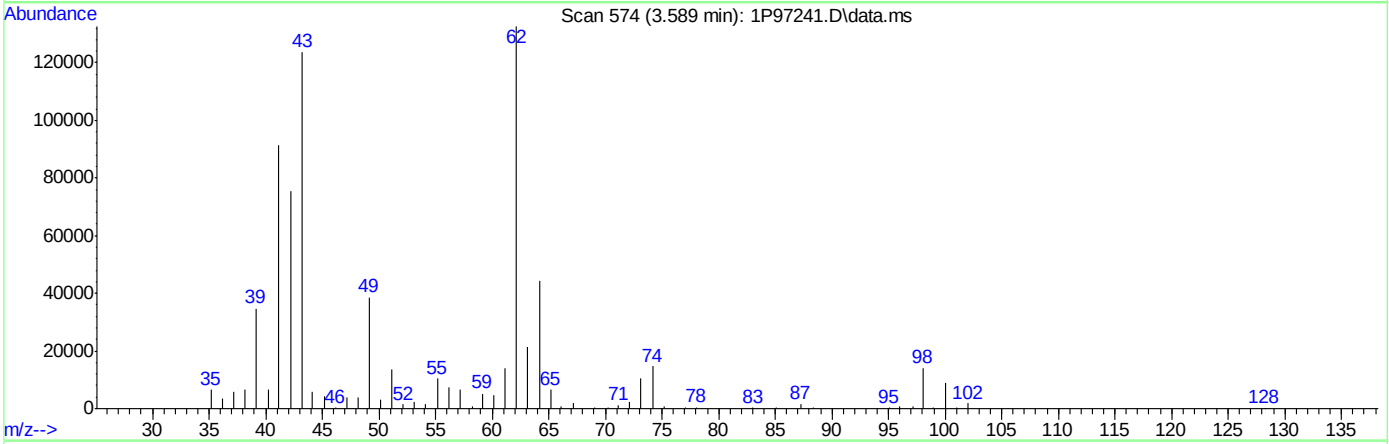
Ion	Exp%	Act%
43.00	100	100
42.10	59.80	62.86
41.10	70.50	74.03
39.00	27.50	26.48

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97241.D
Acq On : 19 Jan 2023 11:17 am
Operator : joannel
Sample : BS
Misc : MS53143,V1P3666,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 19 15:02:21 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97241.D\data.ms

(50) Isobutyl alcohol

3.589min (+0.002) 350.62ug/L m

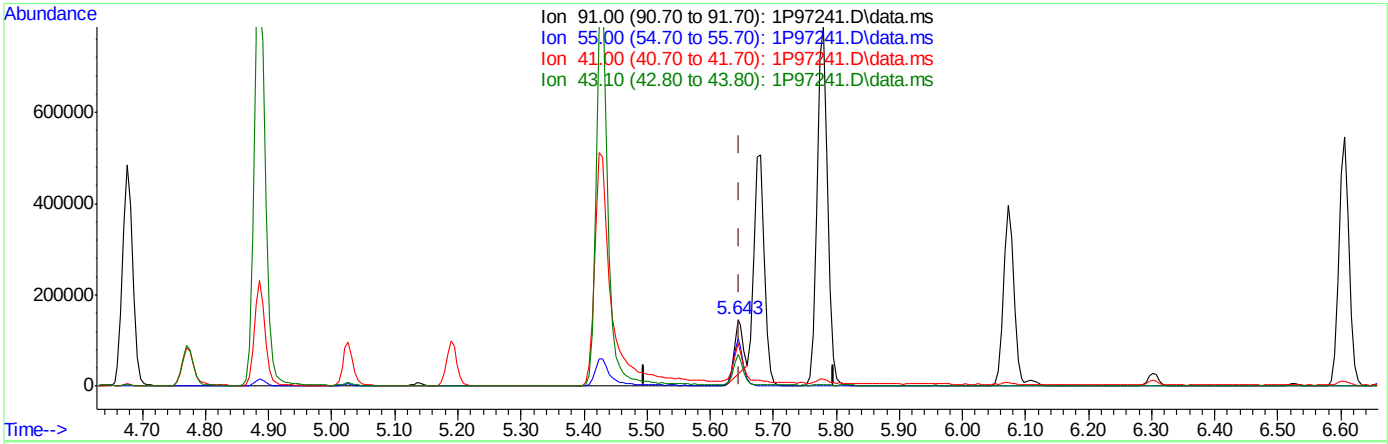
response 227737

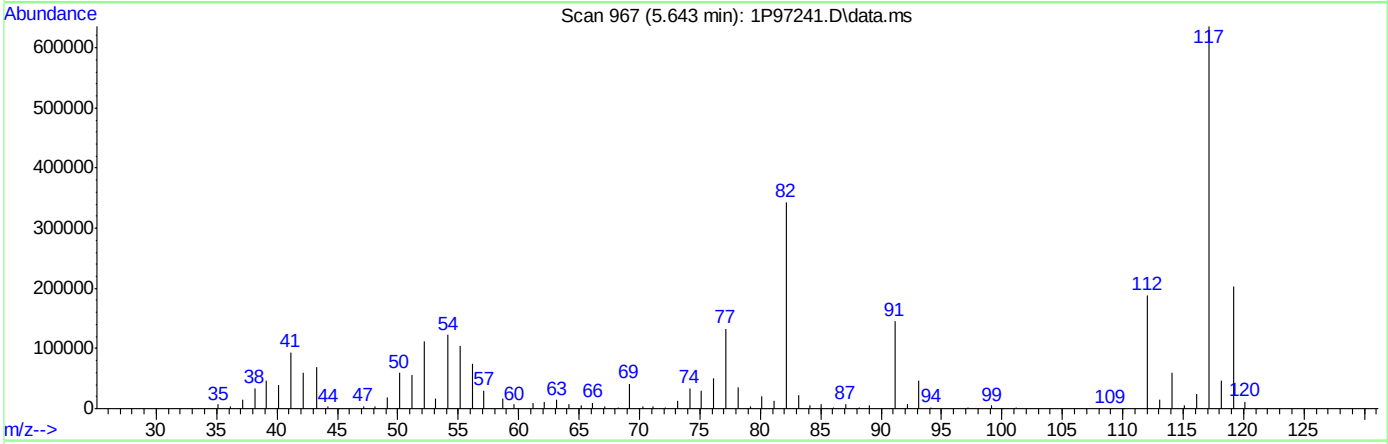
Ion	Exp%	Act%
43.00	100	100
42.10	59.80	61.04
41.10	70.50	73.89
39.00	27.50	28.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97241.D
Acq On : 19 Jan 2023 11:17 am
Operator : joannel
Sample : BS
Misc : MS53143,V1P3666,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 19 15:02:21 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97241.D\data.ms

(76) 1-Chlorohexane

5.643min (-0.003) 17.56ug/L

response 117646

Ion	Exp%	Act%
91.00	100	100
55.00	69.00	67.51
41.00	56.30	56.14
43.10	43.30	44.57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-23-2023\
Data File : 5E36827.D
Acq On : 23 Jan 2023 9:38 am
Operator : joannel
Sample : BS
Misc : MS53151,V5E1659,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 23 09:55:11 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	818439	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	639112	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	376870	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.079	113	231853	50.18	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.36%			
49) 1,2-Dichloroethane-d4	8.665	65	291957	55.10	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 110.20%			
62) Toluene-d8	10.542	98	859493	49.28	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.56%			
86) 4-Bromofluorobenzene	13.322	95	328162	52.30	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.60%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.849	85	85747	20.35	ug/L	99
3) Chloromethane	3.220	50	108723	24.33	ug/L	99
4) Vinyl Chloride	3.373	62	114036	24.86	ug/L	100
5) 1,3-Butadiene	3.403	39	123666	451.71	ug/L	95
6) Bromomethane	3.940	94	44596	21.02	ug/L	97
7) Chloroethane	4.153	64	74511	24.40	ug/L	97
8) Trichlorofluoromethane	4.385	101	167650	25.71	ug/L	97
9) Ethyl Ether	4.867	59	73953	19.90	ug/L	95
10) Ethanol	5.116	45	21093	602.81	ug/L	96
11) 1,2-Dichlorotrifluoroe...	5.153	67	112593	21.88	ug/L	96
12) 1,1-Dichloroethene	5.159	61	136639	23.24	ug/L	96
13) Freon 113	5.220	101	91681	21.33	ug/L	95
14) Carbon Disulfide	5.208	76	237104	21.42	ug/L	96
15) Iodomethane	5.366	142	47080	13.98	ug/L	95
16) Acrolein	5.629	56	90857	108.15	ug/L	94
17) Allyl chloride	5.818	41	152833	29.77	ug/L	97
18) Methylene Chloride	5.958	49	134075	23.92	ug/L	95
19) Acetone	6.019	43	174929	135.20	ug/L	94
20) Methyl acetate	6.171	43	375135	129.77	ug/L	97
21) trans-1,2-Dichloroethene	6.171	61	141417	23.77	ug/L	96
22) Hexane	6.263	56	89137	22.73	ug/L	95
23) Methyl Tert Butyl Ether	6.293	73	298105	22.96	ug/L	94
24) Acetonitrile	6.616	41	119526	253.97	ug/L	98
25) Di-isopropyl ether	6.750	45	355265	26.98	ug/L	97
26) Chloroprene	6.909	53	168465	15.70	ug/L	95
27) 1,1-Dichloroethane	6.939	63	197746	24.94	ug/L	97
28) Acrylonitrile	7.000	53	205060	134.07	ug/L	100
29) ETBE	7.189	59	351743	25.35	ug/L	97
30) Tert Butyl Alcohol	6.391	59	146992	285.52	ug/L	97
31) Vinyl acetate	7.214	43	1409704	170.04	ug/L	99
32) cis-1,2-Dichloroethene	7.579	96	107734	23.81	ug/L	90
33) 2,2-Dichloropropane	7.701	77	154801	23.71	ug/L	98
34) Bromochloromethane	7.811	128	54565	24.09	ug/L	92
35) Cyclohexane	7.823	56	174613	26.54	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-23-2023\
Data File : 5E36827.D
Acq On : 23 Jan 2023 9:38 am
Operator : joannel
Sample : BS
Misc : MS53151,V5E1659,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 23 09:55:11 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	7.872	83	198598	25.06	ug/L		97
37) Ethyl acetate	7.976	43	629365	152.48	ug/L		97
38) Tetrahydrofuran	8.067	42	36221	27.68	ug/L		95
40) Carbon Tetrachloride	8.049	117	149932	24.68	ug/L		99
41) 1,1,1-Trichloroethane	8.122	97	169953	24.51	ug/L		98
42) 2-Butanone	8.201	43	279214	142.49	ug/L		97
43) 1,1-Dichloropropene	8.256	75	138985	24.16	ug/L		91
44) tert-Butyl formate	8.354	59	446054	228.63	ug/L		98
45) Propionitrile	8.530	54	178651	258.15	ug/L		93
46) Methacrylonitrile	8.555	41	803608	273.40	ug/L		98
47) Benzene	8.524	78	398318	23.86	ug/L		97
48) TAME	8.604	73	326617	26.12	ug/L		93
50) 1,2-Dichloroethane	8.738	62	171226	26.89	ug/L		98
51) tert Amyl alcohol	8.780	59	119694	296.25	ug/L		95
52) Trichloroethene	9.134	95	115080	25.25	ug/L		98
53) Methylcyclohexane	9.128	83	178066	24.78	ug/L		93
54) Dibromomethane	9.579	93	75133	24.69	ug/L		99
55) 1,2-Dichloropropane	9.670	63	114684	25.61	ug/L		97
56) Bromodichloromethane	9.719	83	160905	27.66	ug/L		98
57) Methyl methacrylate	9.835	41	108056	29.60	ug/L		94
58) 1,4-Dioxane	9.914	88	24086	553.81	ug/L		84
59) 2-Chloroethyl vinyl ether	10.256	63	304053	148.07	ug/L		93
60) cis-1,3-Dichloropropene	10.353	75	179618	27.20	ug/L		93
63) Toluene	10.597	91	463335	24.10	ug/L		99
64) Isobutyl alcohol	8.677	43	100064	505.96	ug/L		97
65) 2-Nitropropane	10.829	41	203542	156.57	ug/L		100
66) 4-Methyl-2-pentanone	10.938	43	622852	137.47	ug/L		99
67) trans-1,3-Dichloropropene	10.993	75	175582	29.22	ug/L		94
68) Tetrachloroethene	10.999	166	130492	23.76	ug/L		98
69) Ethyl methacrylate	11.103	69	132099	23.23	ug/L		93
70) 1,1,2-Trichloroethane	11.164	83	93519	25.40	ug/L		97
71) Dibromochloromethane	11.359	129	127158	24.60	ug/L		95
72) 1,3-Dichloropropane	11.451	76	177476	23.66	ug/L		90
73) 1,2-Dibromoethane	11.621	107	115600	25.21	ug/L		98
74) 3,3-Dimethyl-1-butanol	11.707	57	572553	1212.96	ug/L		98
75) 2-hexanone	11.762	43	444008	131.66	ug/L		95
76) 1-Chlorohexane	12.054	91	166887	27.20	ug/L		92
77) Ethylbenzene	12.121	91	552262	25.09	ug/L		97
78) Chlorobenzene	12.127	112	314343	24.94	ug/L		97
79) 1,1,1,2-Tetrachloroethane	12.176	131	116699	25.03	ug/L		98
80) m,p-Xylene	12.261	91	865869	51.16	ug/L		97
81) o-Xylene	12.700	91	432130	26.11	ug/L		99
82) Styrene	12.755	104	319565	25.91	ug/L		98
83) Bromoform	12.816	173	92307	25.80	ug/L		99
84) Isopropylbenzene	13.005	105	548199	26.00	ug/L		99
87) cis-1,4-Dichloro-2-butene	13.676	53	41987	29.78	ug/L	#	90
88) n-Propylbenzene	13.426	91	668266	26.12	ug/L		99
89) Bromobenzene	13.456	156	134364	23.30	ug/L		90
90) 1,1,2,2-Tetrachloroethane	13.493	83	152854	25.08	ug/L		98
91) 1,3,5-Trimethylbenzene	13.609	105	454131	25.07	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-23-2023\
Data File : 5E36827.D
Acq On : 23 Jan 2023 9:38 am
Operator : joannel
Sample : BS
Misc : MS53151,V5E1659,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 23 09:55:11 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

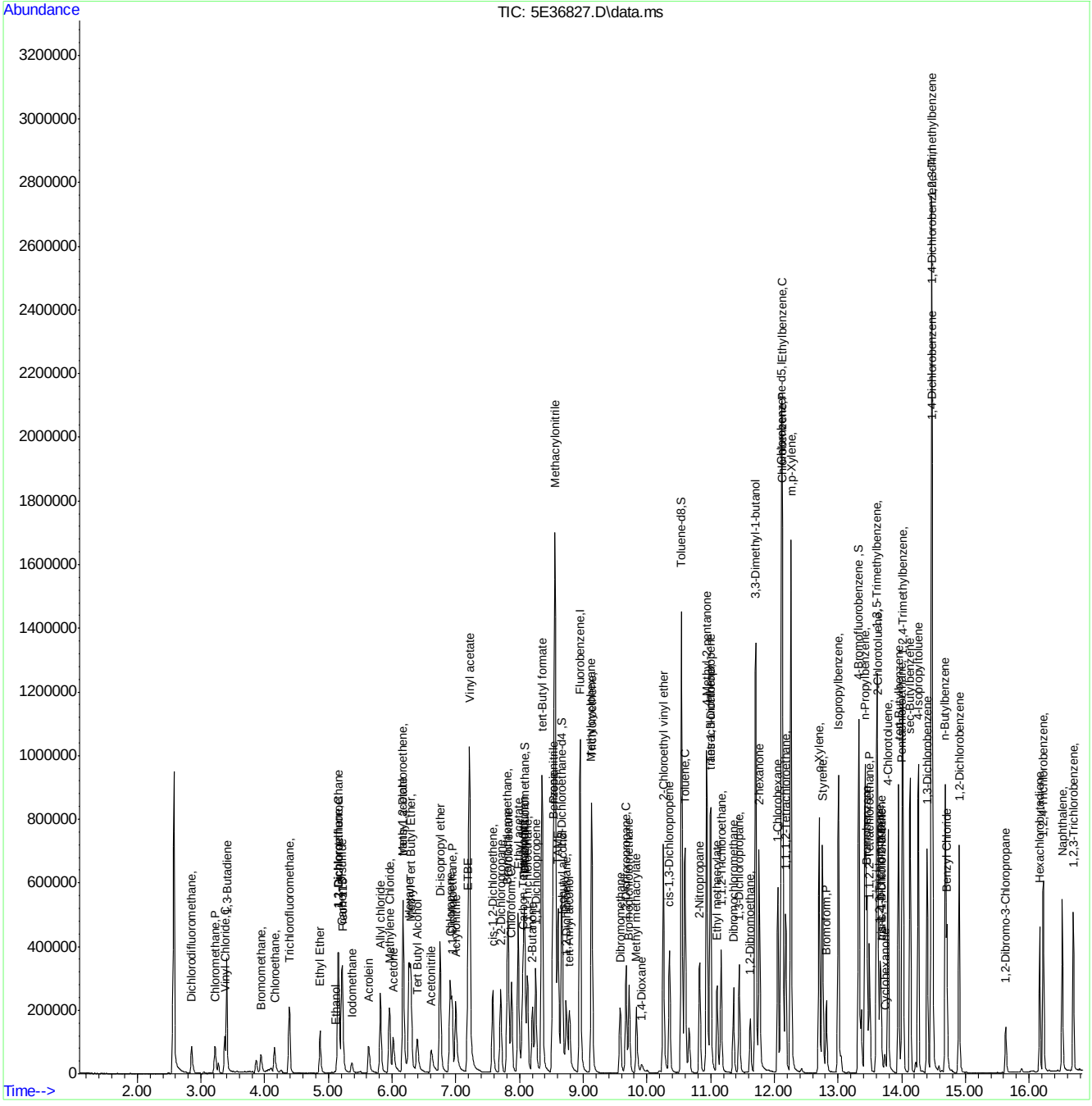
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	13.621	91	425868	25.44	ug/L		98
93)	trans-1,4-Dichloro-2-B...	13.676	53	41987	29.78	ug/L	#	85
94)	1,2,3-Trichloropropane	13.657	110	42078	22.79	ug/L		91
95)	Cyclohexanone	13.737	55	24539	146.04	ug/L		96
96)	4-Chlorotoluene	13.786	91	392475	26.09	ug/L		98
98)	tert-Butylbenzene	13.950	91	257098	25.68	ug/L		97
99)	1,2,4-Trimethylbenzene	14.017	105	457082	25.86	ug/L		98
100)	Pentachloroethane	14.005	167	84977	24.48	ug/L		95
101)	sec-Butylbenzene	14.133	105	571364	26.58	ug/L		99
102)	4-Isopropyltoluene	14.261	119	480859	25.75	ug/L		100
103)	1,3-Dichlorobenzene	14.401	146	256305	24.66	ug/L		98
104)	1,2,3-Trimethylbenzene	14.474	105	485081	27.16	ug/L		98
105)	1,4-Dichlorobenzene	14.480	146	267473	23.99	ug/L		97
106)	n-Butylbenzene	14.682	92	253110	25.14	ug/L		97
107)	Benzyl Chloride	14.712	126	53562	27.02	ug/L	#	90
108)	1,2-Dichlorobenzene	14.901	146	240436	24.09	ug/L		98
109)	1,2-Dibromo-3-Chloropr...	15.633	75	25948	24.11	ug/L		91
110)	Hexachlorobutadiene	16.169	225	71878	23.88	ug/L		97
111)	1,2,4-Trichlorobenzene	16.224	180	159197	23.79	ug/L		99
112)	Naphthalene	16.523	128	376112	23.35	ug/L		98
113)	1,2,3-Trichlorobenzene	16.693	180	136192	23.64	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-23-2023\
Data File : 5E36827.D
Acq On : 23 Jan 2023 9:38 am
Operator : joannel
Sample : BS
Misc : MS53151,V5E1659,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 23 09:55:11 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira
01/23/23 02:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97283.D
Acq On : 19 Jan 2023 10:21 pm
Operator : joannel
Sample : FC1987-1MS 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jan 20 00:25:03 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.715	96	1152690	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.639	117	899073	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.327	152	419923	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.260	113	249307	50.42	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	100.84%		
49) 1,2-Dichloroethane-d4	3.547	65	331077	49.85	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery =	99.70%		
63) Toluene-d8	4.645	98	1153149	45.22	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery =	90.44%		
86) 4-Bromofluorobenzene	6.491	174	301770	44.76	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	89.52%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.122	85	76716	20.31	ug/L	97
3) Chloromethane	1.247	50	96994	23.97	ug/L	98
4) 1,3-butadiene	1.315	39	126962	52.06	ug/L	97
5) Vinyl Chloride	1.305	62	105289	26.44	ug/L	100
6) Bromomethane	1.509	94	77092	35.49	ug/L	98
7) Chloroethane	1.582	64	53386	33.26	ug/L	93
8) Trichlorofluoromethane	1.671	101	178644	32.03	ug/L	98
9) Ethyl Ether	1.875	59	120424	30.66	ug/L	96
10) Ethanol	1.958	45	55452	589.43	ug/L	98
11) 1,2-Dichlorotrifluoroe...	1.974	67	122150	26.68	ug/L	96
12) 1,1-Dichloroethene	1.979	61	158365	28.14	ug/L	96
13) Freon 113	2.010	101	91017	26.39	ug/L	95
14) Carbon Disulfide	2.000	76	282471	28.01	ug/L	98
15) Iodomethane	2.057	142	89671	24.68	ug/L	97
16) Acrolein	2.152	56	164582	117.87	ug/L	99
17) Allyl chloride	2.246	41	167203	29.33	ug/L	98
18) Methylene Chloride	2.298	49	143385	29.17	ug/L	98
19) Acetone	2.314	43	383308	149.66	ug/L	99
20) Methyl acetate	2.392	43	934103	168.06	ug/L	99
21) trans-1,2-Dichloroethene	2.397	61	163245	28.91	ug/L	98
22) Hexane	2.465	56	79365	24.85	ug/L	98
23) Methyl Tert Butyl Ether	2.465	73	407731	30.30	ug/L	96
24) Tert Butyl Alcohol	2.507	59	401004	321.57	ug/L	98
25) Acetonitrile	2.549	41	258753	223.22	ug/L	98
26) Di-isopropyl ether	2.680	45	401225	30.69	ug/L	98
27) Chloroprene	2.721	53	582954	31.02	ug/L	98
28) 1,1-Dichloroethane	2.727	63	225505	31.01	ug/L	99
29) Acrylonitrile	2.727	52	384390	154.73	ug/L	99
30) ETBE	2.878	59	392009	30.13	ug/L	99
31) Vinyl acetate	2.857	43	1624547	170.75	ug/L	100
32) cis-1,2-Dichloroethene	3.019	96	130958	29.65	ug/L	97
33) 2,2-Dichloropropane	3.082	77	152387	24.19	ug/L	99
34) Bromochloromethane	3.124	128	55340	29.92	ug/L	95
35) Cyclohexane	3.161	56	180935	28.33	ug/L	99
36) Chloroform	3.166	83	222004	29.55	ug/L	99
37) Ethyl acetate	3.223	43	1156893	165.48	ug/L	99
38) Tetrahydrofuran	3.255	42	90384	31.74	ug/L	99
40) Carbon Tetrachloride	3.265	117	131650m	27.63	ug/L	
41) 1,1,1-Trichloroethane	3.291	97	177439	28.05	ug/L	97
42) 2-Butanone	3.312	43	668237	146.44	ug/L	100
43) 1,1-Dichloropropene	3.359	75	161404	27.23	ug/L	97
44) tert-Butyl formate	3.406	59	323748	118.22	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97283.D
Acq On : 19 Jan 2023 10:21 pm
Operator : joannel
Sample : FC1987-1MS 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jan 20 00:25:03 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	3.459	54	363870	292.84	ug/L		99
46) Methacrylonitrile	3.479	41	1295792	300.85	ug/L		98
47) Benzene	3.490	78	551490	30.12	ug/L		84
48) TAME	3.563	73	386132	30.28	ug/L		100
50) Isobutyl alcohol	3.589	43	360994m	559.11	ug/L		
51) 1,2-Dichloroethane	3.584	62	171326	28.67	ug/L		96
52) Tert Amyl Alcohol	3.647	59	324352	326.87	ug/L		99
53) Trichloroethene	3.819	95	126954	27.90	ug/L		93
54) Methylcyclohexane	3.840	83	176296	28.32	ug/L		98
55) Dibromomethane	4.044	93	72316	27.89	ug/L		84
56) 1,2-Dichloropropane	4.102	63	117284	27.68	ug/L		96
57) Bromodichloromethane	4.138	83	149278	30.58	ug/L		99
58) Methyl methacrylate	4.232	41	146478	28.80	ug/L		97
59) 1,4-Dioxane	4.258	88	68674	685.83	ug/L		94
60) 2-Chloroethyl vinyl ether	4.473	63	525287	146.23	ug/L		98
61) cis-1,3-Dichloropropene	4.515	75	182372	28.05	ug/L		99
64) Toluene	4.677	91	552311	24.72	ug/L		99
65) 2-Nitropropane	4.771	41	114196	103.81	ug/L		96
66) 4-Methyl-2-pentanone	4.886	43	1124251	126.68	ug/L		99
67) trans-1,3-Dichloropropene	4.912	75	176501	26.36	ug/L		98
68) Tetrachloroethene	4.933	166	120778	23.99	ug/L		97
69) Ethyl methacrylate	5.027	69	172193	22.09	ug/L		97
70) 1,1,2-Trichloroethane	5.017	83	95948	25.53	ug/L		95
71) Dibromochloromethane	5.137	129	92017	25.07	ug/L		99
72) 1,3-Dichloropropane	5.189	76	199637	24.12	ug/L		99
73) 1,2-Dibromoethane	5.288	107	112802	24.39	ug/L		98
74) 3,3-dimethyl-1-butanol	5.424	57	1489959	1184.80	ug/L		99
75) 2-hexanone	5.424	43	1145710	128.72	ug/L		88
76) 1-Chlorohexane	5.644	91	163827m	24.28	ug/L		
77) Ethylbenzene	5.675	91	575628	25.04	ug/L		99
78) Chlorobenzene	5.649	112	324531	25.52	ug/L		98
79) 1,1,1,2-Tetrachloroethane	5.691	131	100048	25.71	ug/L		95
80) m,p-Xylene	5.775	91	895579	50.05	ug/L		98
81) o-Xylene	6.073	91	450120	25.39	ug/L		99
82) Styrene	6.104	104	336113	24.51	ug/L		98
83) Bromoform	6.114	173	53304	26.24	ug/L		99
84) Isopropylbenzene	6.303	105	521749	24.94	ug/L		98
87) cis-1,4-Dichloro-2-butene	6.522	53	47233	18.79	ug/L	#	76
88) n-Propylbenzene	6.606	91	595447	23.86	ug/L		99
89) Bromobenzene	6.564	156	108943	21.29	ug/L		90
90) 1,1,2,2-Tetrachloroethane	6.627	83	169810	24.87	ug/L		96
91) 1,3,5-Trimethylbenzene	6.752	105	405865	23.24	ug/L		99
92) 2-Chlorotoluene	6.705	91	357210	23.83	ug/L		97
93) trans-1,4-Dichloro-2-B...	6.752	53	60544	23.79	ug/L		89
94) 1,2,3-Trichloropropane	6.721	110	59846	23.57	ug/L		96
95) Cyclohexanone	6.747	55	52565	123.88	ug/L		95
96) 4-Chlorotoluene	6.831	91	371346	23.86	ug/L		98
97) tert-Butylbenzene	6.987	91	223084	23.15	ug/L		97
99) 1,2,4-Trimethylbenzene	7.040	105	391258	23.62	ug/L		98
100) Pentachloroethane	6.993	167	47064	20.89	ug/L	#	90
101) sec-Butylbenzene	7.129	105	466170	24.25	ug/L		99
102) 4-Isopropyltoluene	7.238	119	393342	24.15	ug/L		99
103) 1,3-Dichlorobenzene	7.275	146	215837	23.33	ug/L		98
104) 1,2,3-Trimethylbenzene	7.369	105	406194	25.07	ug/L		99
105) 1,4-Dichlorobenzene	7.338	146	224626	23.51	ug/L		97
106) n-Butylbenzene	7.552	92	167410	21.79	ug/L		97
107) Benzyl Chloride	7.516	126	37134	17.01	ug/L	#	83
108) 1,2-Dichlorobenzene	7.646	146	199725	23.09	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97283.D
Acq On : 19 Jan 2023 10:21 pm
Operator : joannel
Sample : FC1987-1MS 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jan 20 00:25:03 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

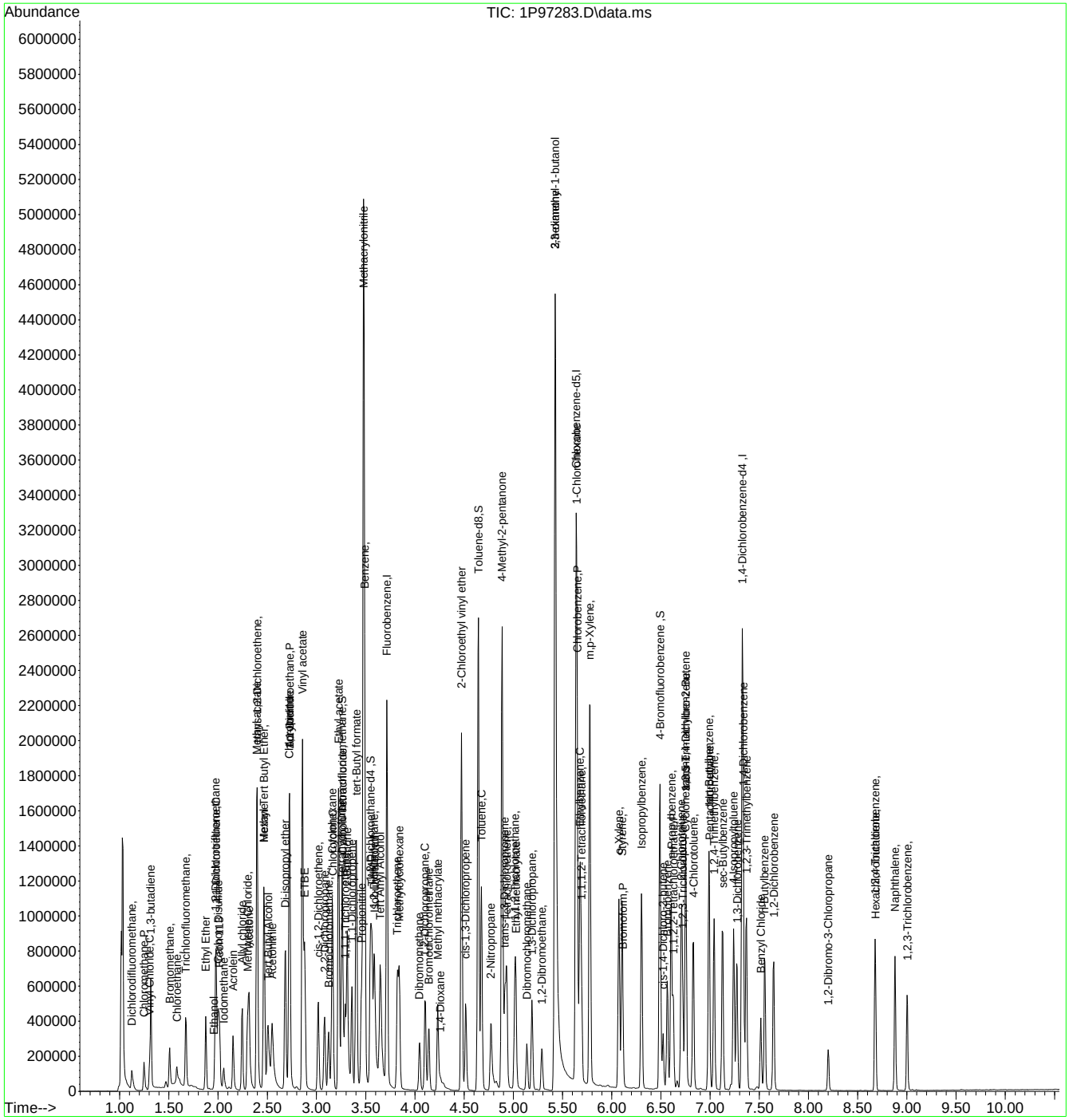
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	8.200	75	37902	23.54	ug/L	96
110) Hexachlorobutadiene	8.681	225	34119	19.79	ug/L	89
111) 1,2,4-Trichlorobenzene	8.676	180	96206	20.64	ug/L	100
112) Naphthalene	8.880	128	362120	21.62	ug/L	97
113) 1,2,3-Trichlorobenzene	9.005	180	93849	21.10	ug/L	96

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

Quantitation Report (QT Reviewed)

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Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
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Manual Integration Approval Summary

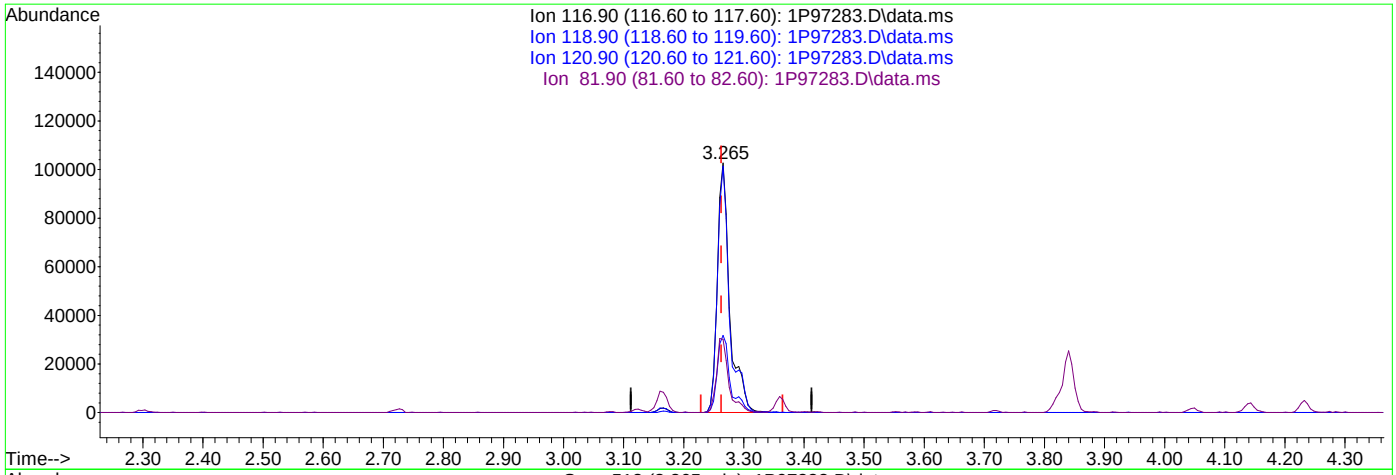
Sample Number: FC1987-1MS
Lab FileID: 1P97283.D
Injection Time: 01/19/23 22:21
Method: SW846 8260D
Analyst approved: 01/20/23 00:49 Celine Celis
Supervisor approved: 01/23/23 02:54 Jennifer Fereira

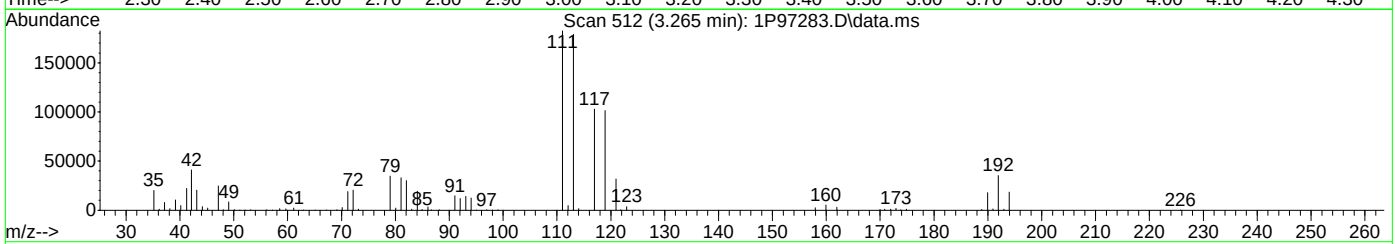
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration

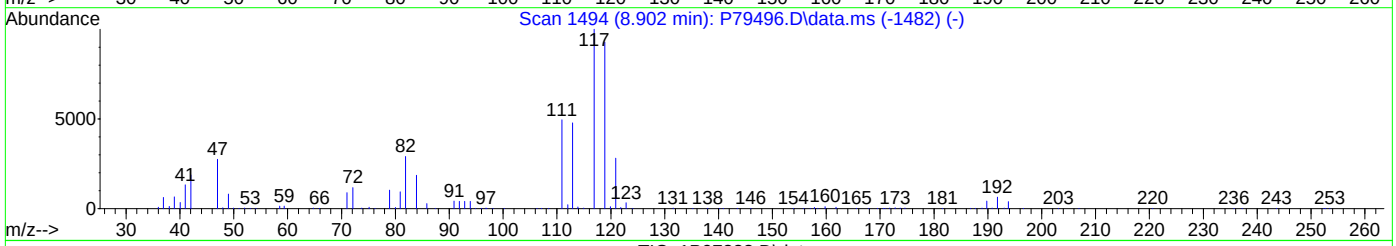
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97283.D
Acq On : 19 Jan 2023 10:21 pm
Operator : joannel
Sample : FC1987-1MS 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jan 19 23:57:51 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97283.D\data.ms

(40) Carbon Tetrachloride ( )

3.265min (+0.003) 30.92ug/L

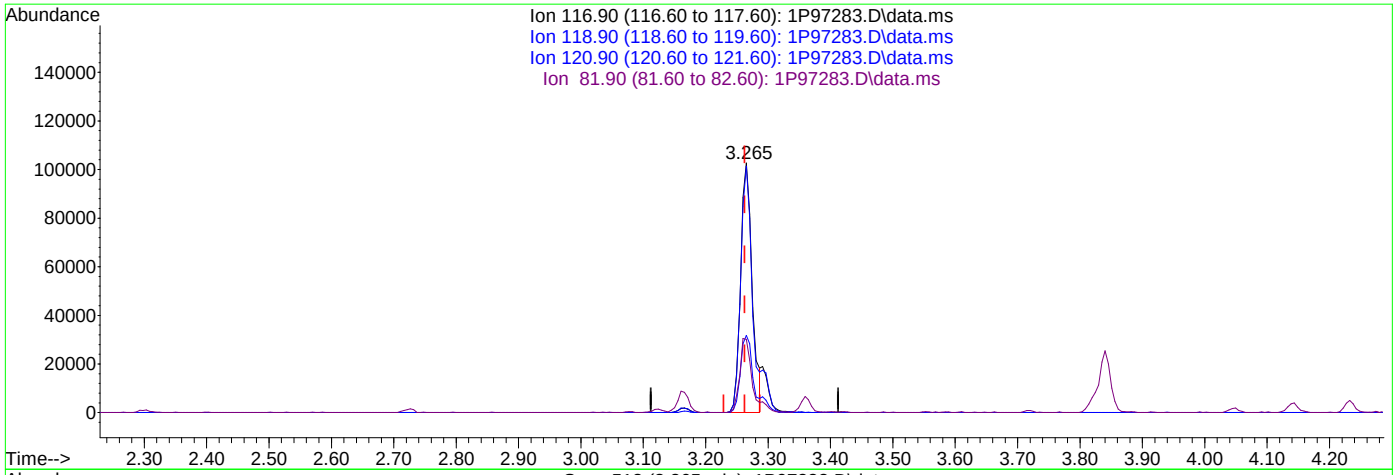
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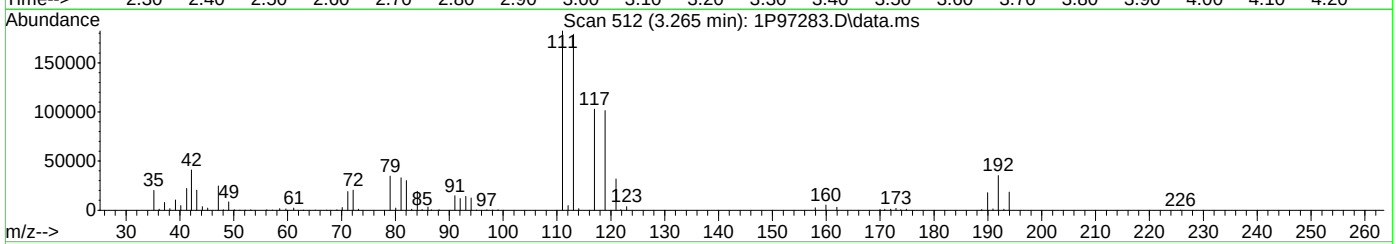
Ion	Exp%	Act%
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118.90	96.00	98.70
120.90	29.70	30.96
81.90	28.20	29.35

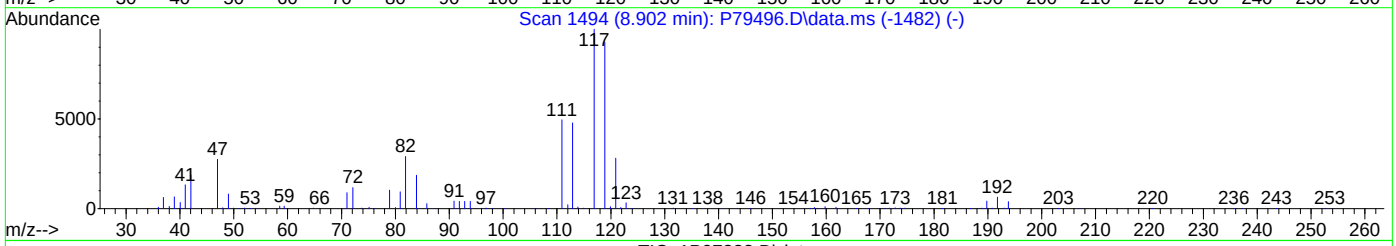
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97283.D
Acq On : 19 Jan 2023 10:21 pm
Operator : joannel
Sample : FC1987-1MS 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jan 19 23:57:51 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97283.D\data.ms

(40) Carbon Tetrachloride ( )

3.265min (+0.003) 27.63ug/L m

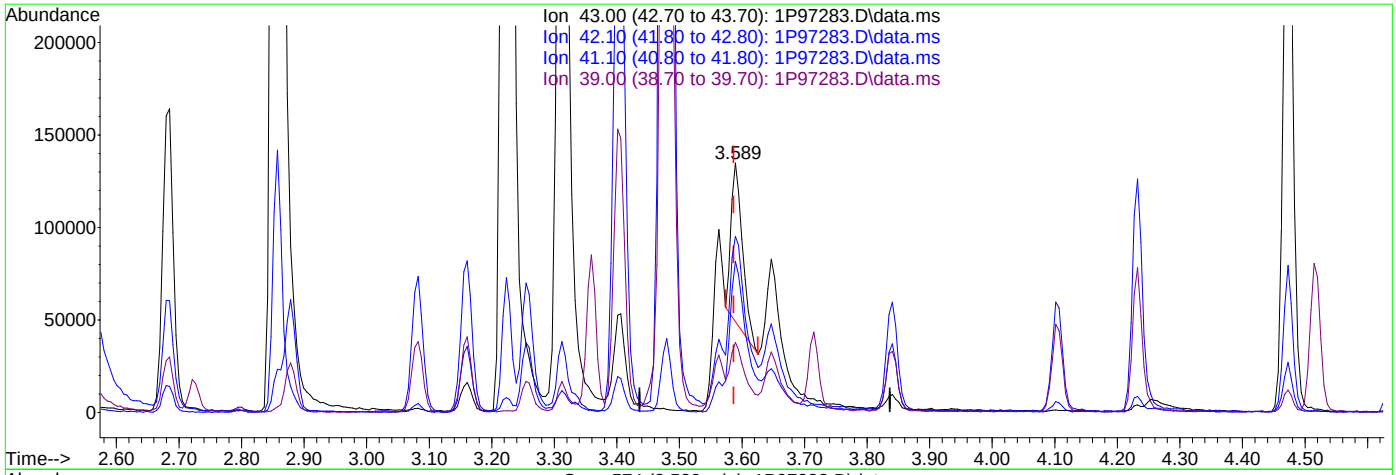
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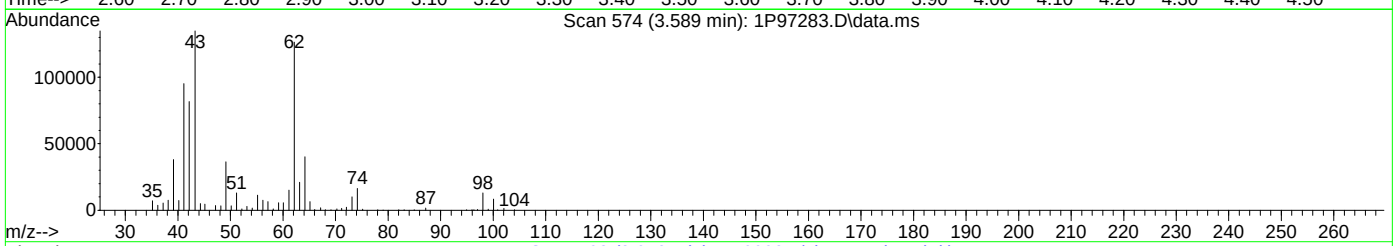
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	98.70
120.90	29.70	30.96
81.90	28.20	29.35

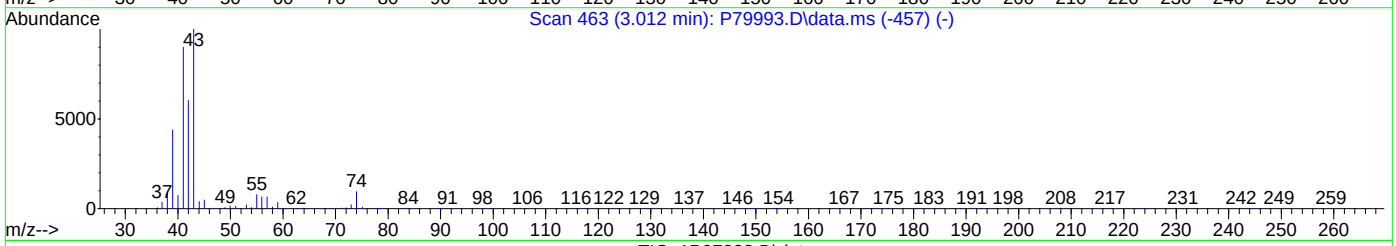
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97283.D
Acq On : 19 Jan 2023 10:21 pm
Operator : joannel
Sample : FC1987-1MS 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jan 19 23:57:51 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97283.D\data.ms

(50) Isobutyl alcohol

3.589min (+0.003) 162.89ug/L

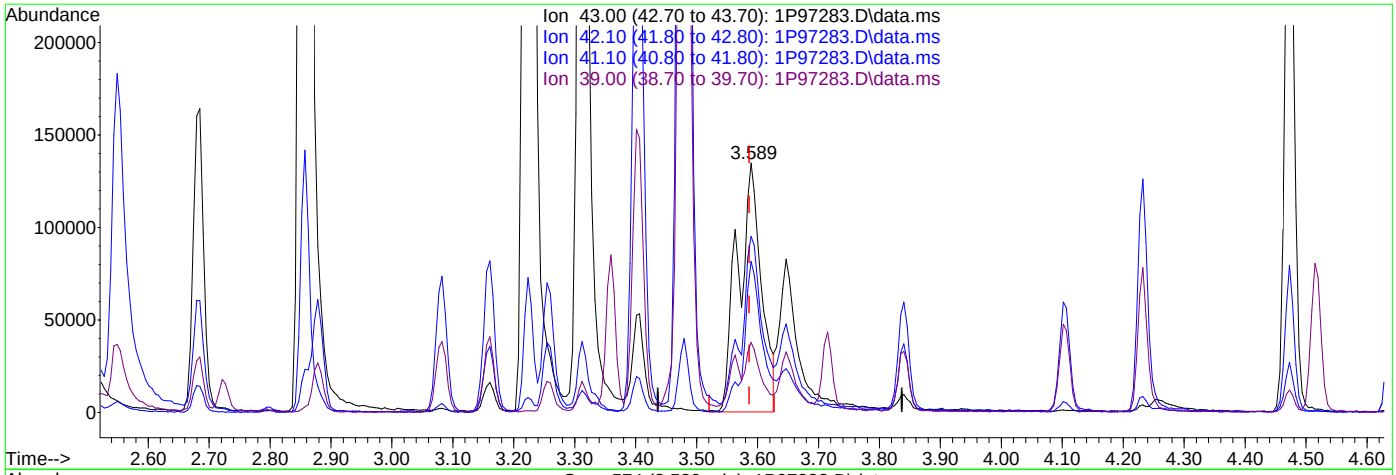
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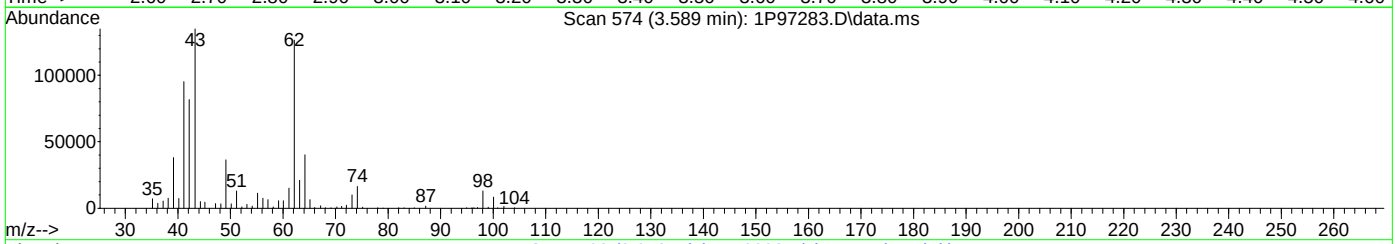
Ion	Exp%	Act%
43.00	100	100
42.10	59.80	62.43
41.10	70.50	68.63
39.00	27.50	27.60

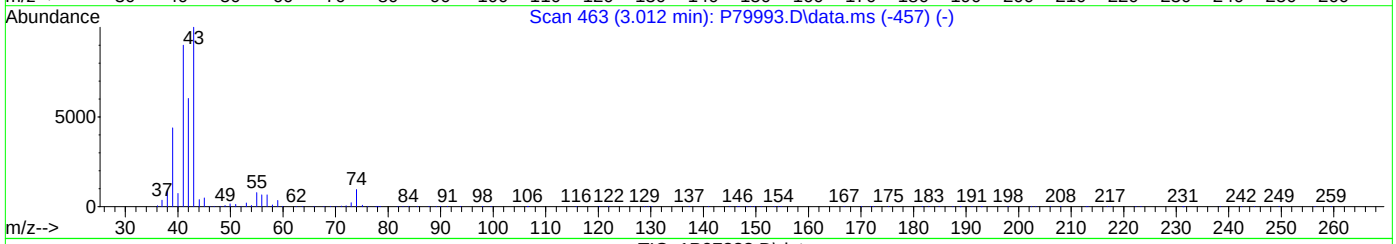
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97283.D
Acq On : 19 Jan 2023 10:21 pm
Operator : joannel
Sample : FC1987-1MS 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jan 19 23:57:51 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97283.D\data.ms

(50) Isobutyl alcohol

3.589min (+0.003) 559.11ug/L m

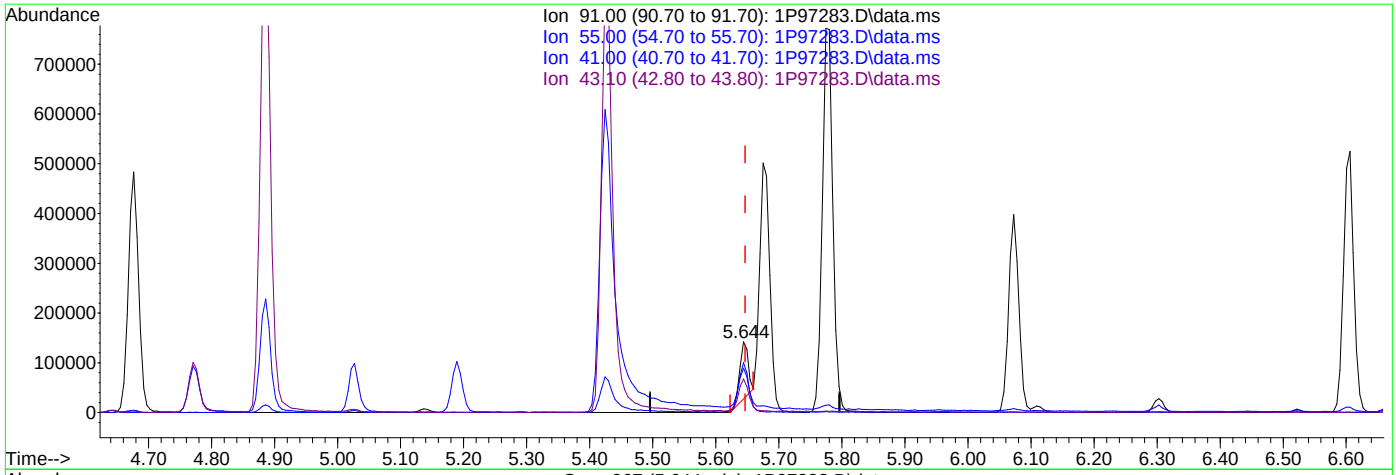
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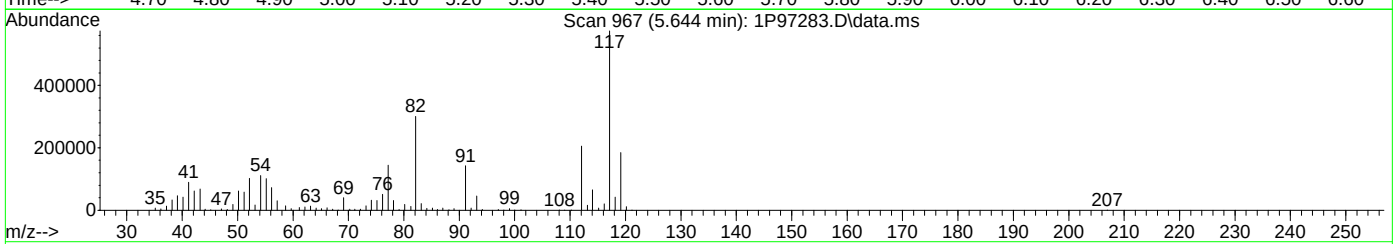
Ion	Exp%	Act%
43.00	100	100
42.10	59.80	60.56
41.10	70.50	70.58
39.00	27.50	28.16

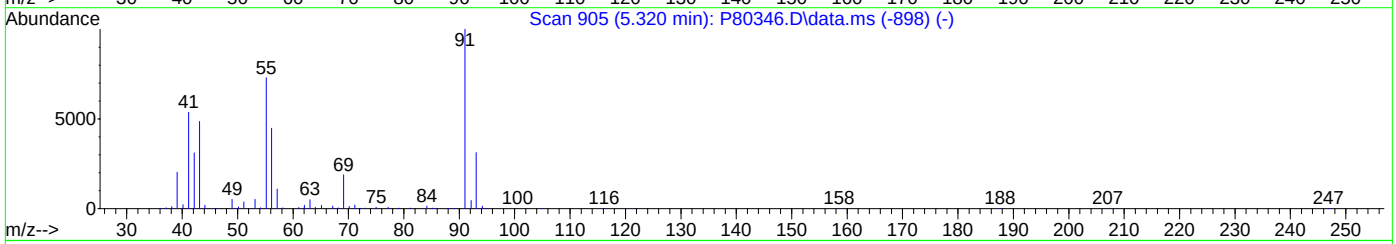
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97283.D
Acq On : 19 Jan 2023 10:21 pm
Operator : joannel
Sample : FC1987-1MS 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jan 19 23:57:51 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97283.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.003) 16.33ug/L

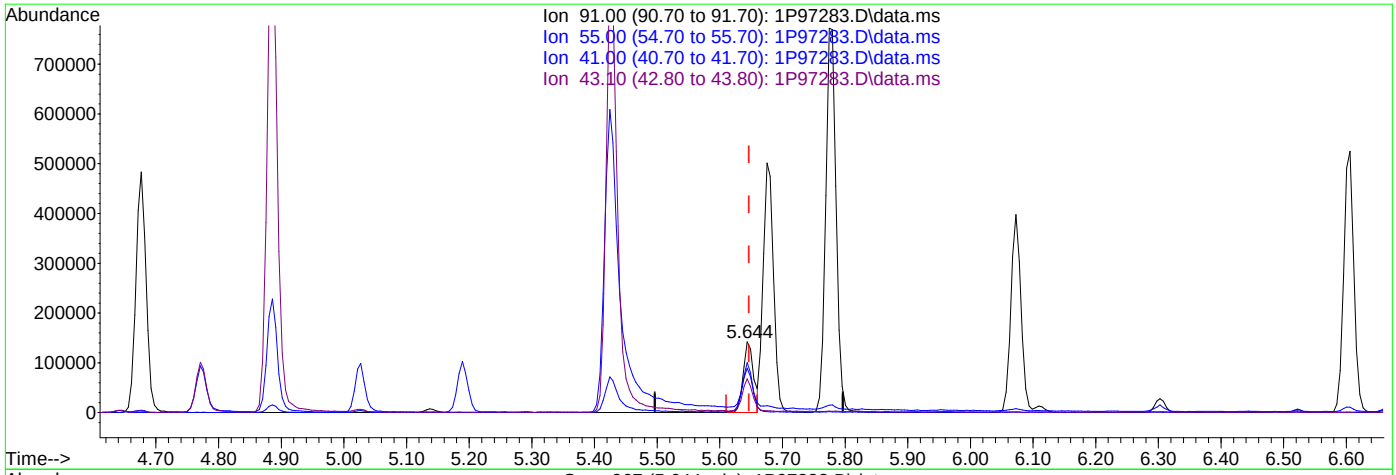
response 110196

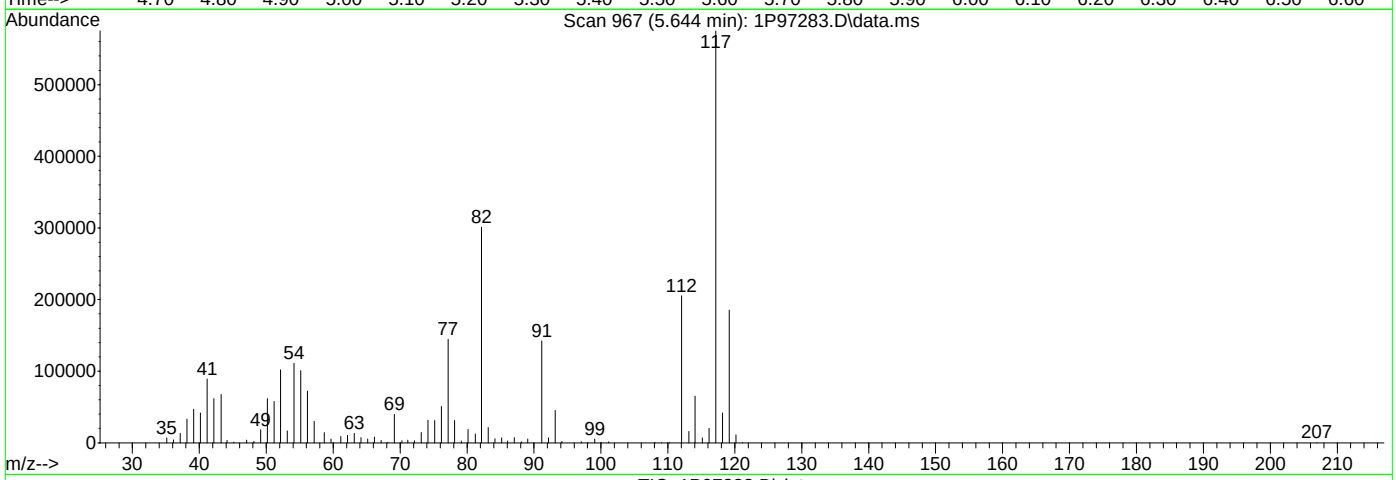
Ion	Exp%	Act%
91.00	100	100
55.00	69.00	68.87
41.00	56.30	54.38
43.10	43.30	44.52

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97283.D
Acq On : 19 Jan 2023 10:21 pm
Operator : joannel
Sample : FC1987-1MS 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jan 20 00:25:03 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97283.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.003) 24.28ug/L m

response 163827

Ion	Exp%	Act%
91.00	100	100
55.00	69.00	70.86
41.00	56.30	62.65
43.10	43.30	47.59

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 01/23/23 02:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97284.D
Acq On : 19 Jan 2023 10:47 pm
Operator : joannel
Sample : FC1987-1MSD 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jan 20 00:44:30 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.714	96	1141536	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.638	117	879935	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.327	152	413862	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.259	113	249172	50.88	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	101.76%		
49) 1,2-Dichloroethane-d4	3.542	65	331026	50.33	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery =	100.66%		
63) Toluene-d8	4.639	98	1135562	45.50	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery =	91.00%		
86) 4-Bromofluorobenzene	6.490	174	300150	45.18	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	90.36%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.116	85	82121	21.96	ug/L	93
3) Chloromethane	1.241	50	96568	24.09	ug/L	99
4) 1,3-butadiene	1.314	39	117064	48.16	ug/L	97
5) Vinyl Chloride	1.299	62	106613	27.03	ug/L	96
6) Bromomethane	1.503	94	79309	36.87	ug/L	98
7) Chloroethane	1.576	64	55993	35.79	ug/L	98
8) Trichlorofluoromethane	1.665	101	188383	34.65	ug/L	100
9) Ethyl Ether	1.874	59	111210	28.59	ug/L	95
10) Ethanol	1.963	45	64948	717.80	ug/L	99
11) 1,2-Dichlorotrifluoroe...	1.968	67	120110	26.49	ug/L	92
12) 1,1-Dichloroethene	1.973	61	153541	27.55	ug/L	95
13) Freon 113	2.005	101	90905	26.61	ug/L	96
14) Carbon Disulfide	1.994	76	275724	27.61	ug/L	100
15) Iodomethane	2.052	142	101513	28.22	ug/L	97
16) Acrolein	2.146	56	172011	124.50	ug/L	97
17) Allyl chloride	2.240	41	161012	28.52	ug/L	97
18) Methylene Chloride	2.292	49	143221	29.42	ug/L	98
19) Acetone	2.308	43	393091	154.98	ug/L	97
20) Methyl acetate	2.391	43	932547	169.42	ug/L	98
21) trans-1,2-Dichloroethene	2.397	61	163032	29.16	ug/L	98
22) Hexane	2.459	56	79298	25.08	ug/L	94
23) Methyl Tert Butyl Ether	2.465	73	399386	29.97	ug/L	88
24) Tert Butyl Alcohol	2.506	59	395326	320.12	ug/L	97
25) Acetonitrile	2.543	41	257943	224.70	ug/L	99
26) Di-isopropyl ether	2.679	45	401924	31.04	ug/L	98
27) Chloroprene	2.721	53	584330	31.40	ug/L	98
28) 1,1-Dichloroethane	2.721	63	225355	31.29	ug/L	99
29) Acrylonitrile	2.721	52	382688	155.55	ug/L	98
30) ETBE	2.872	59	386050	29.96	ug/L	97
31) Vinyl acetate	2.851	43	1608658	170.73	ug/L	100
32) cis-1,2-Dichloroethene	3.014	96	130333	29.80	ug/L	97
33) 2,2-Dichloropropane	3.076	77	147738	23.68	ug/L	99
34) Bromochloromethane	3.118	128	57282	31.27	ug/L	91
35) Cyclohexane	3.155	56	181541	28.71	ug/L	98
36) Chloroform	3.160	83	223184	29.99	ug/L	97
37) Ethyl acetate	3.217	43	1147941	165.80	ug/L	99
38) Tetrahydrofuran	3.254	42	87966	31.18	ug/L	98
40) Carbon Tetrachloride	3.259	117	129873m	27.53	ug/L	
41) 1,1,1-Trichloroethane	3.285	97	171850	27.43	ug/L	99
42) 2-Butanone	3.306	43	660724	146.20	ug/L	99
43) 1,1-Dichloropropene	3.353	75	158872	27.07	ug/L	96
44) tert-Butyl formate	3.400	59	318877	117.62	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97284.D
Acq On : 19 Jan 2023 10:47 pm
Operator : joannel
Sample : FC1987-1MSD 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jan 20 00:44:30 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	3.453	54	366849	298.40	ug/L		97
46)	Methacrylonitrile	3.474	41	1282355	300.63	ug/L		98
47)	Benzene	3.484	78	554355	30.58	ug/L		97
48)	TAME	3.562	73	382766	30.31	ug/L		99
50)	Isobutyl alcohol	3.589	43	369815m	578.37	ug/L		
51)	1,2-Dichloroethane	3.583	62	171770	29.02	ug/L		97
52)	Tert Amyl Alcohol	3.646	59	314549	320.09	ug/L		98
53)	Trichloroethene	3.819	95	125317	27.81	ug/L		94
54)	Methylcyclohexane	3.834	83	176261	28.60	ug/L		98
55)	Dibromomethane	4.043	93	73256	28.53	ug/L		91
56)	1,2-Dichloropropane	4.101	63	118857	28.33	ug/L		97
57)	Bromodichloromethane	4.138	83	148559	30.73	ug/L		98
58)	Methyl methacrylate	4.226	41	150370	29.85	ug/L		97
59)	1,4-Dioxane	4.253	88	74431	750.58	ug/L		99
60)	2-Chloroethyl vinyl ether	4.472	63	519936	146.15	ug/L		98
61)	cis-1,3-Dichloropropene	4.514	75	180493	28.04	ug/L		98
64)	Toluene	4.671	91	549506	25.13	ug/L		99
65)	2-Nitropropane	4.770	41	112863	104.70	ug/L		95
66)	4-Methyl-2-pentanone	4.885	43	1115975	128.48	ug/L		98
67)	trans-1,3-Dichloropropene	4.911	75	171715	26.20	ug/L		90
68)	Tetrachloroethene	4.932	166	120450	24.44	ug/L		96
69)	Ethyl methacrylate	5.021	69	172017	22.55	ug/L		97
70)	1,1,2-Trichloroethane	5.011	83	95639	26.00	ug/L		98
71)	Dibromochloromethane	5.136	129	89630	24.96	ug/L		98
72)	1,3-Dichloropropane	5.188	76	196875	24.31	ug/L		99
73)	1,2-Dibromoethane	5.288	107	112401	24.84	ug/L		97
74)	3,3-dimethyl-1-butanol	5.424	57	1508069	1225.28	ug/L		99
75)	2-hexanone	5.424	43	1145969	131.54	ug/L		92
76)	1-Chlorohexane	5.643	91	168292m	25.49	ug/L		
77)	Ethylbenzene	5.675	91	559600	24.87	ug/L		100
78)	Chlorobenzene	5.648	112	323379	25.98	ug/L		100
79)	1,1,1,2-Tetrachloroethane	5.690	131	98915	25.97	ug/L		96
80)	m,p-Xylene	5.774	91	885559	50.57	ug/L		99
81)	o-Xylene	6.072	91	438743	25.29	ug/L		99
82)	Styrene	6.103	104	335852	25.03	ug/L		98
83)	Bromoform	6.109	173	52200	26.25	ug/L		97
84)	Isopropylbenzene	6.302	105	511832	25.00	ug/L		99
87)	cis-1,4-Dichloro-2-butene	6.521	53	45950	18.55	ug/L	#	80
88)	n-Propylbenzene	6.600	91	593311	24.12	ug/L		98
89)	Bromobenzene	6.563	156	107789	21.37	ug/L		92
90)	1,1,2,2-Tetrachloroethane	6.621	83	172115	25.57	ug/L		98
91)	1,3,5-Trimethylbenzene	6.752	105	407881	23.69	ug/L		97
92)	2-Chlorotoluene	6.704	91	355857	24.09	ug/L		99
93)	trans-1,4-Dichloro-2-B...	6.752	53	59622	23.77	ug/L		89
94)	1,2,3-Trichloropropane	6.720	110	57782	23.09	ug/L		96
95)	Cyclohexanone	6.741	55	55673	133.13	ug/L		92
96)	4-Chlorotoluene	6.825	91	373719	24.37	ug/L		99
97)	tert-Butylbenzene	6.987	91	221252	23.29	ug/L		98
99)	1,2,4-Trimethylbenzene	7.039	105	397447	24.34	ug/L		97
100)	Pentachloroethane	6.987	167	45115	20.35	ug/L	#	71
101)	sec-Butylbenzene	7.123	105	459087	24.23	ug/L		99
102)	4-Isopropyltoluene	7.238	119	390434	24.33	ug/L		98
103)	1,3-Dichlorobenzene	7.269	146	218961	24.01	ug/L		98
104)	1,2,3-Trimethylbenzene	7.368	105	418082	26.18	ug/L		99
105)	1,4-Dichlorobenzene	7.337	146	222823	23.66	ug/L		96
106)	n-Butylbenzene	7.557	92	166753	22.02	ug/L		99
107)	Benzyl Chloride	7.515	126	35735	16.63	ug/L	#	83
108)	1,2-Dichlorobenzene	7.646	146	204445	23.99	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97284.D
Acq On : 19 Jan 2023 10:47 pm
Operator : joannel
Sample : FC1987-1MSD 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jan 20 00:44:30 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

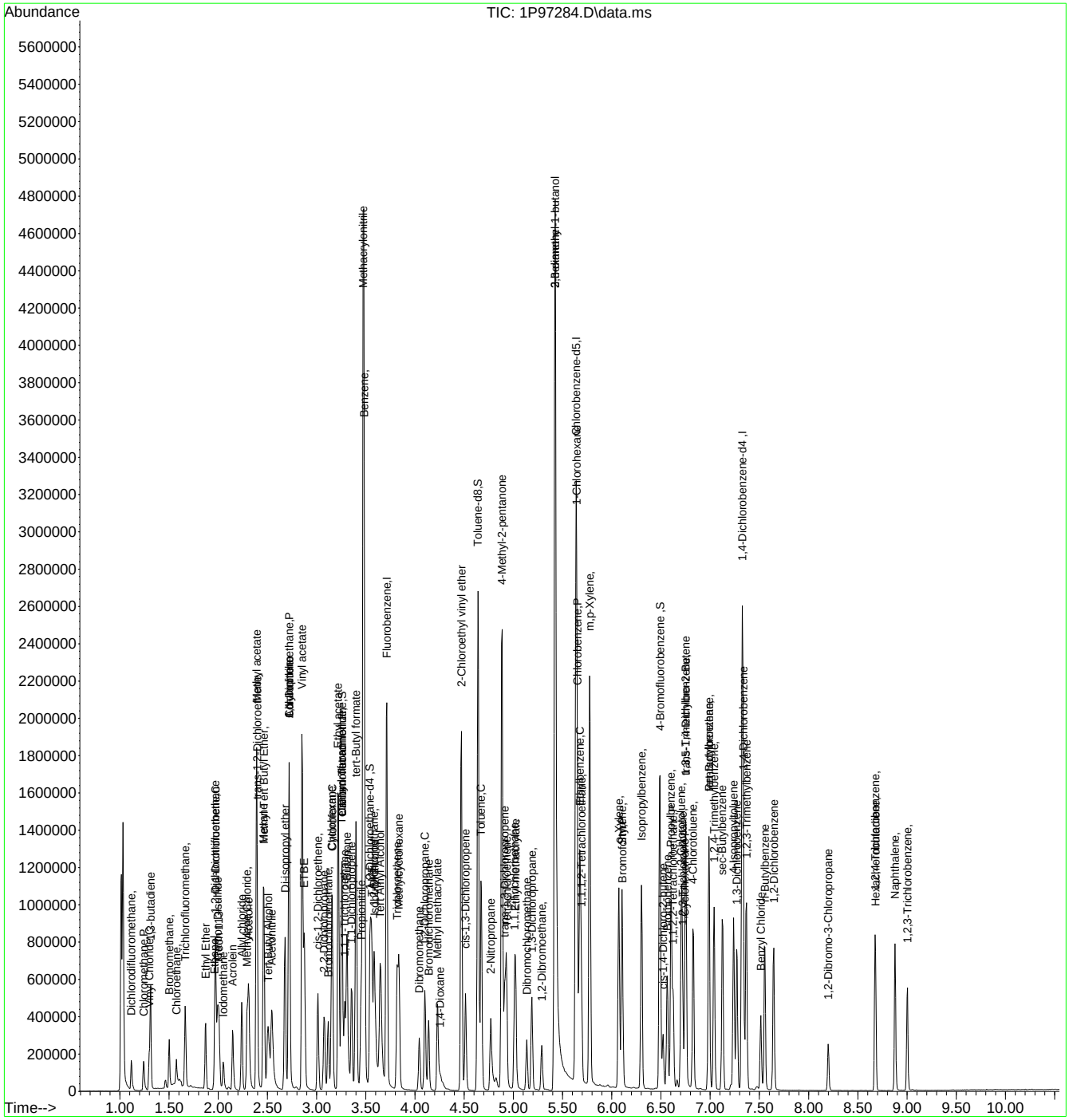
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	8.200	75	38368	24.18	ug/L	97
110) Hexachlorobutadiene	8.681	225	34750	20.45	ug/L	90
111) 1,2,4-Trichlorobenzene	8.675	180	94924	20.67	ug/L	97
112) Naphthalene	8.879	128	362449	21.96	ug/L	98
113) 1,2,3-Trichlorobenzene	9.005	180	96572	22.03	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97284.D
Acq On : 19 Jan 2023 10:47 pm
Operator : joannel
Sample : FC1987-1MSD 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jan 20 00:44:30 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration



Manual Integration Approval Summary

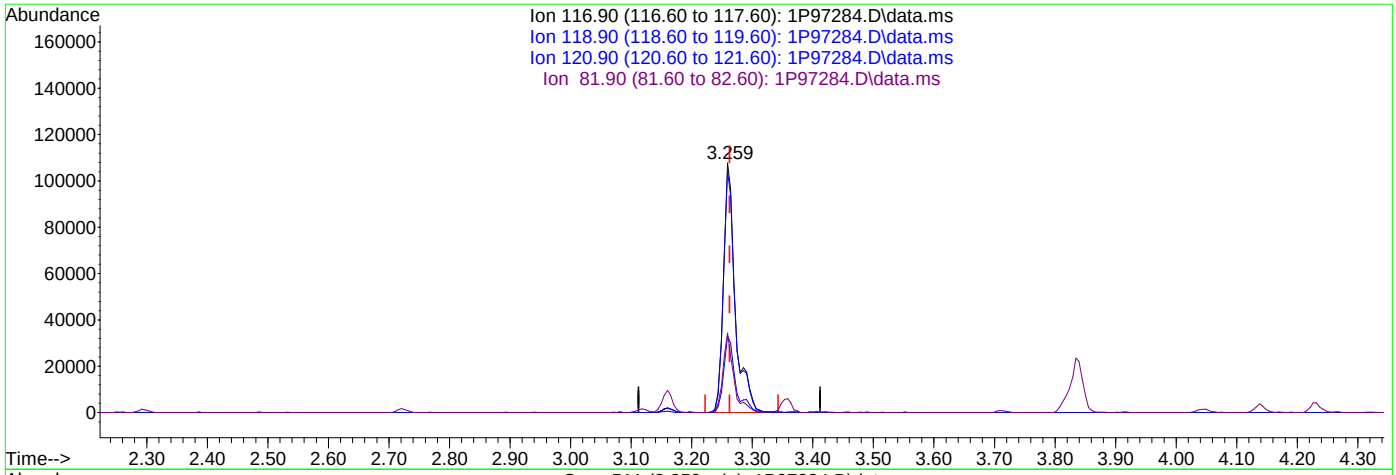
Sample Number: FC1987-1MSD
Lab FileID: 1P97284.D
Injection Time: 01/19/23 22:47
Method: SW846 8260D
Analyst approved: 01/20/23 00:49 Celine Celis
Supervisor approved: 01/23/23 02:54 Jennifer Fereira

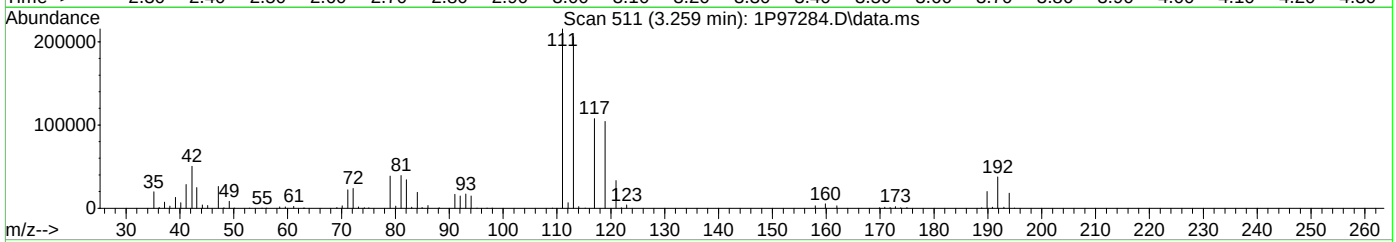
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration

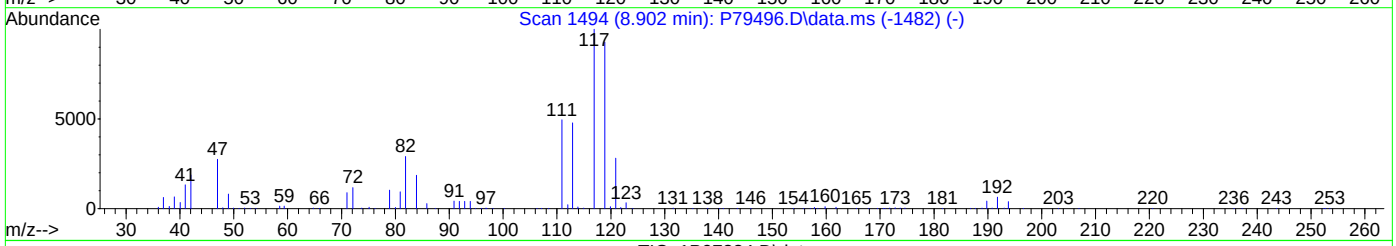
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97284.D
Acq On : 19 Jan 2023 10:47 pm
Operator : joannel
Sample : FC1987-1MSD 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jan 19 23:57:54 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97284.D\data.ms

(40) Carbon Tetrachloride ( )

3.259min (-0.003) 31.29ug/L

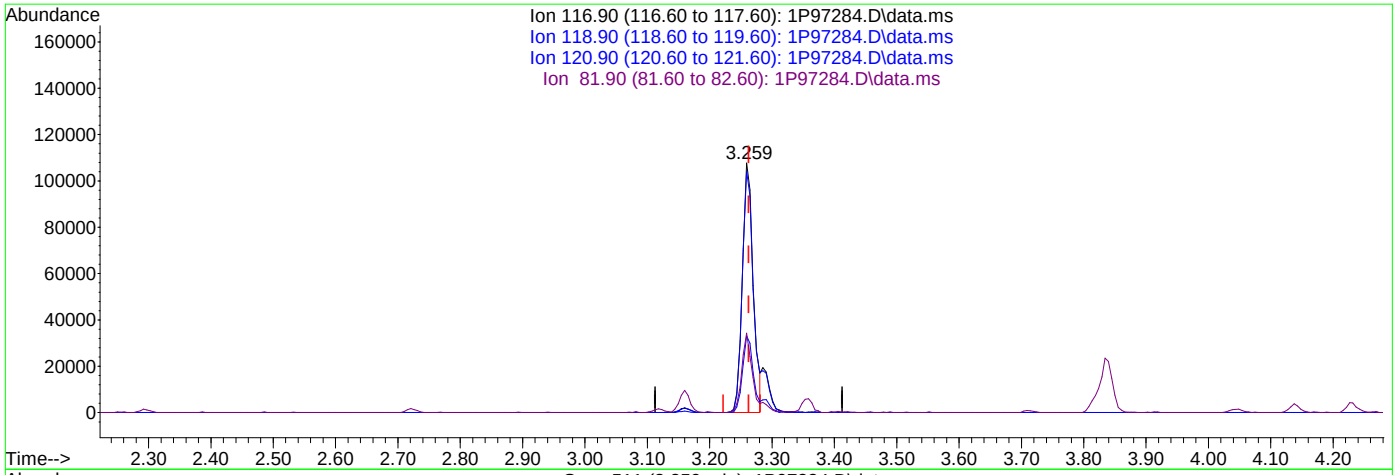
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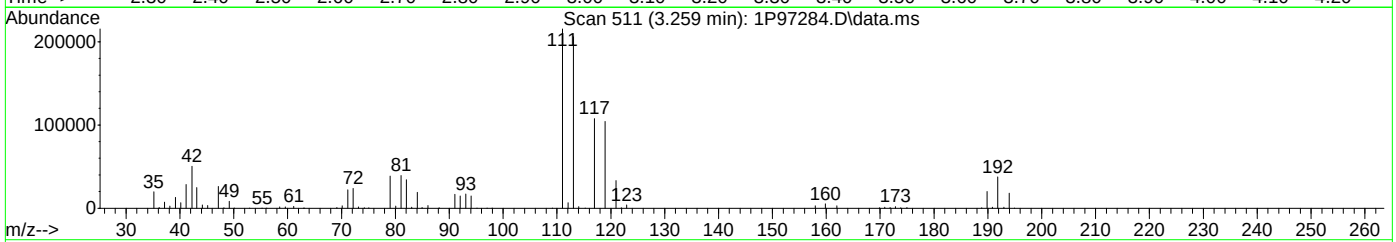
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	96.66
120.90	29.70	30.72
81.90	28.20	31.76

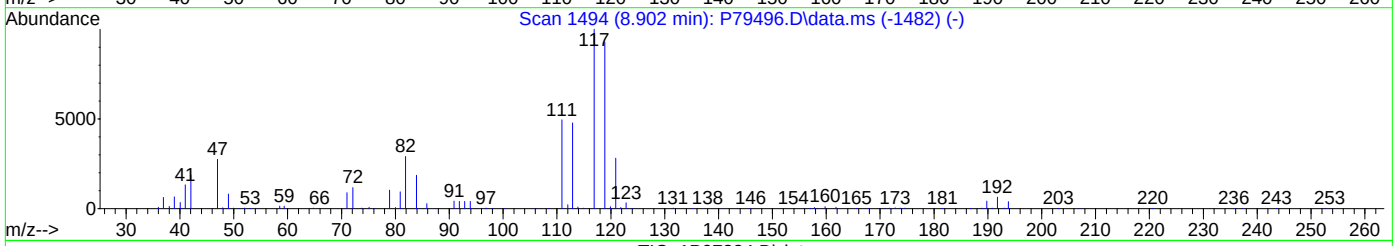
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97284.D
Acq On : 19 Jan 2023 10:47 pm
Operator : joannel
Sample : FC1987-1MSD 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jan 19 23:57:54 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97284.D\data.ms

(40) Carbon Tetrachloride ( )

3.259min (-0.003) 27.53ug/L m

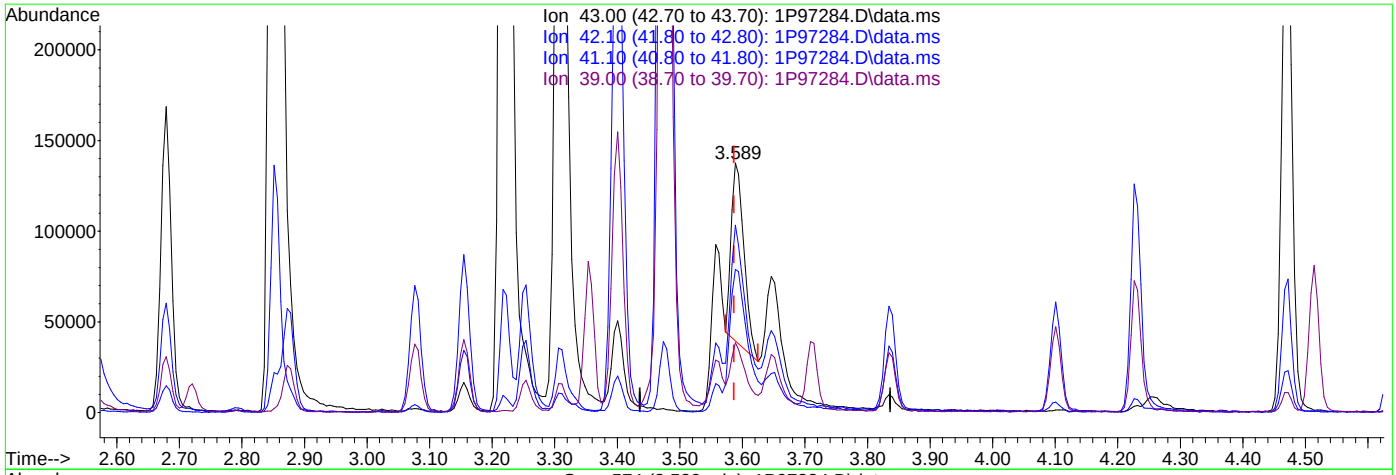
response 129873

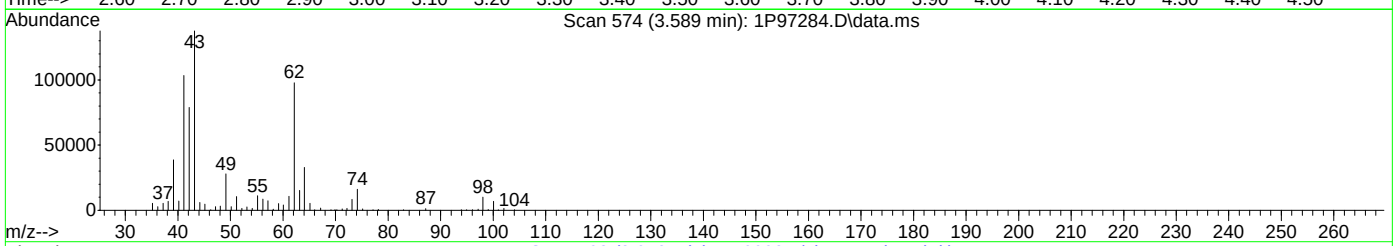
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	96.66
120.90	29.70	30.72
81.90	28.20	31.76

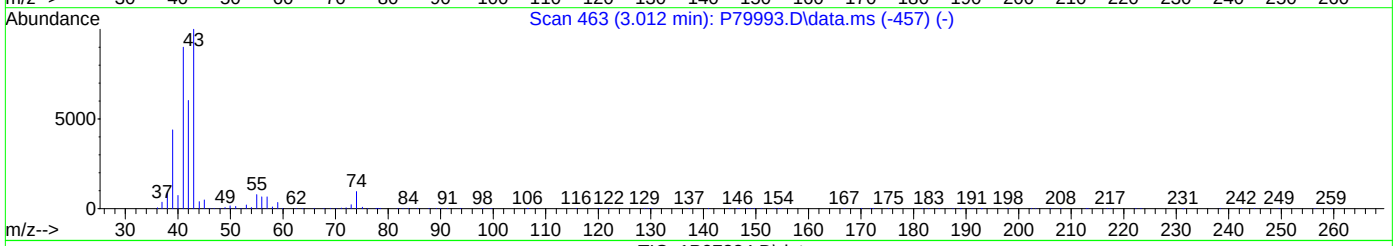
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97284.D
Acq On : 19 Jan 2023 10:47 pm
Operator : joannel
Sample : FC1987-1MSD 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jan 19 23:57:54 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97284.D\data.ms

(50) Isobutyl alcohol

3.589min (+0.002) 215.24ug/L

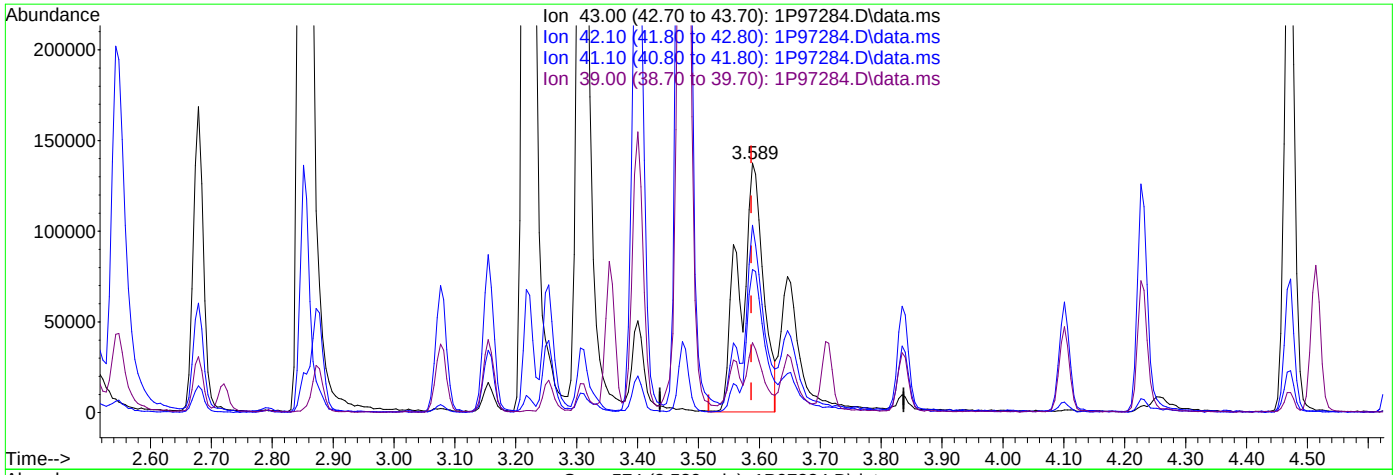
response 137629

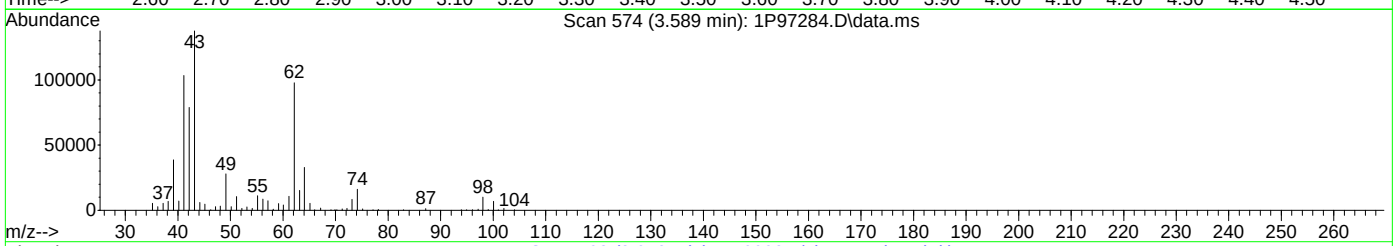
Ion	Exp%	Act%
43.00	100	100
42.10	59.80	57.89
41.10	70.50	72.40
39.00	27.50	26.60

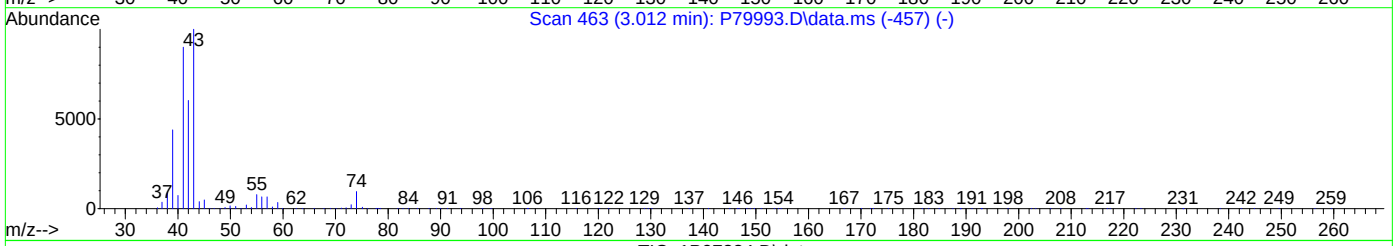
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97284.D
Acq On : 19 Jan 2023 10:47 pm
Operator : joannel
Sample : FC1987-1MSD 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jan 19 23:57:54 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97284.D\data.ms

(50) Isobutyl alcohol

3.589min (+0.002) 578.37ug/L m

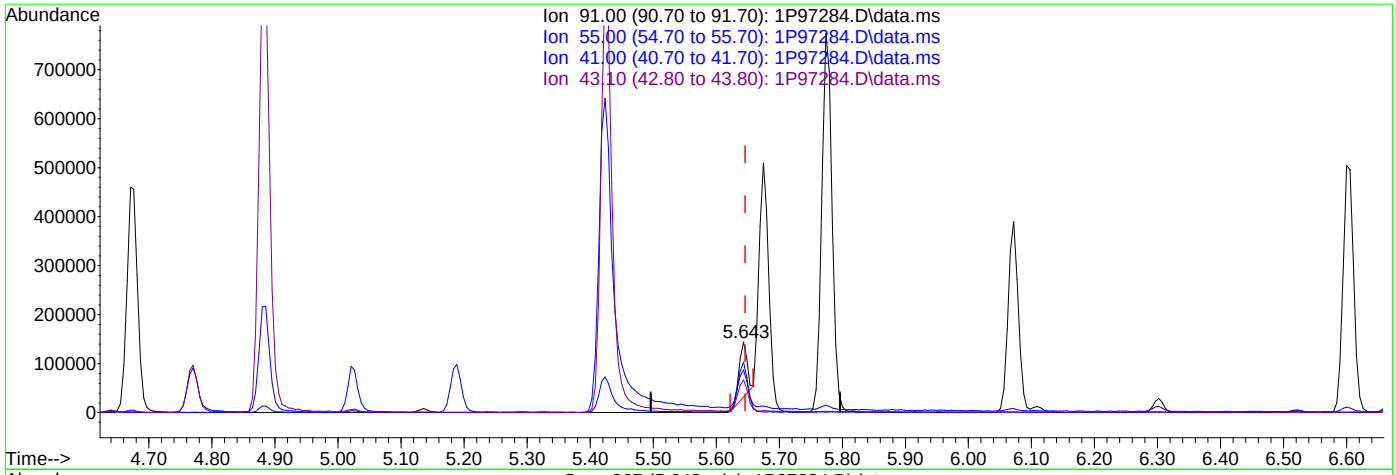
response 369815

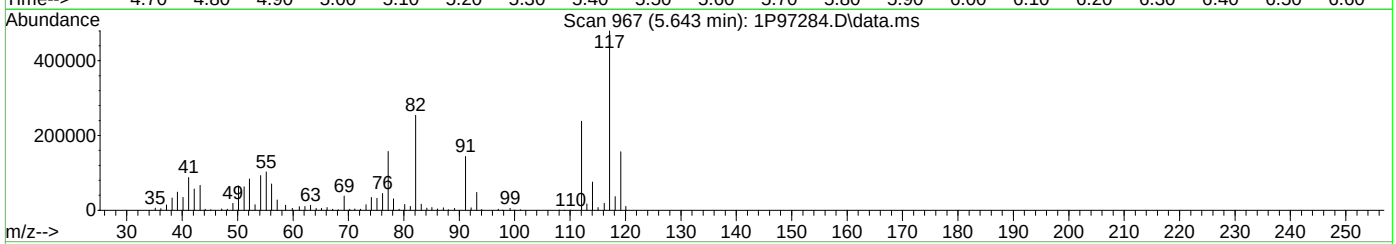
Ion	Exp%	Act%
43.00	100	100
42.10	59.80	57.31
41.10	70.50	75.04
39.00	27.50	27.99

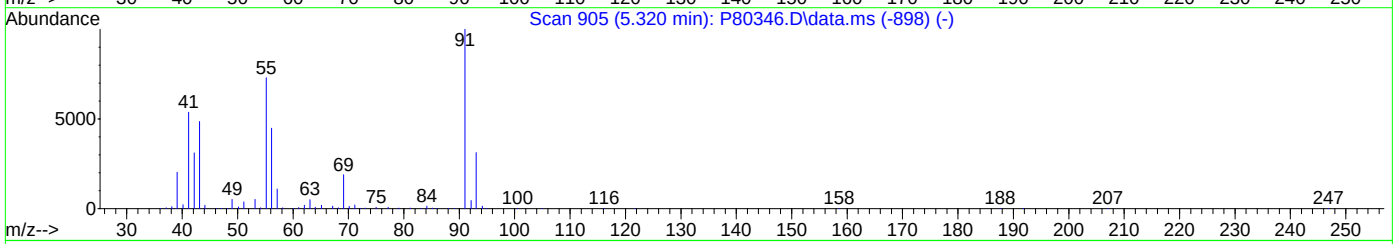
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97284.D
Acq On : 19 Jan 2023 10:47 pm
Operator : joannel
Sample : FC1987-1MSD 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jan 19 23:57:54 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97284.D\data.ms

(76) 1-Chlorohexane

5.643min (-0.003) 16.19ug/L

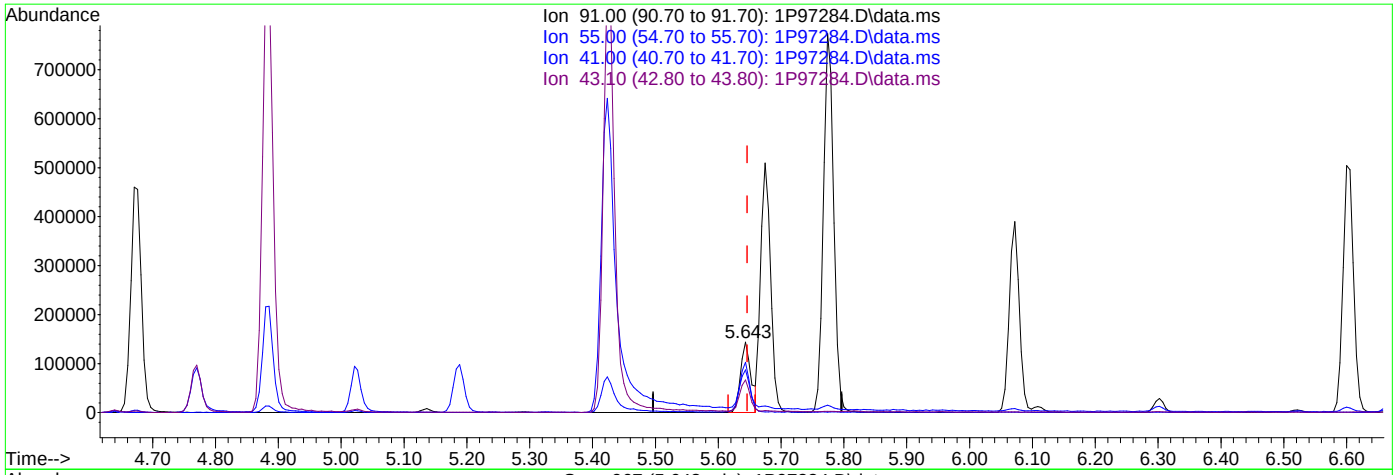
response 106911

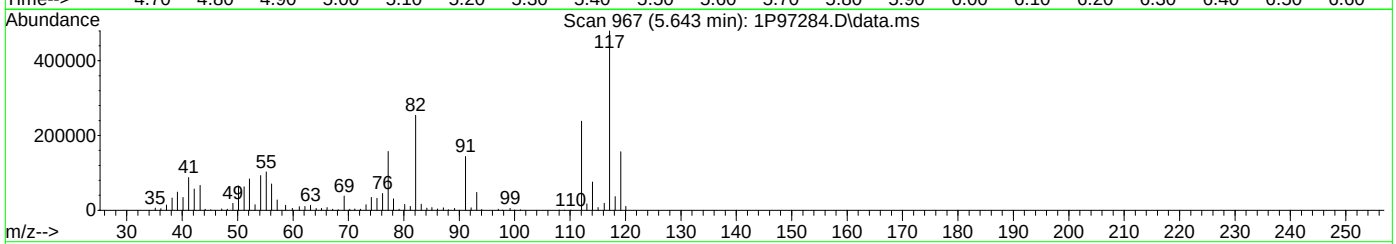
Ion	Exp%	Act%
91.00	100	100
55.00	69.00	68.68
41.00	56.30	53.45
43.10	43.30	43.65

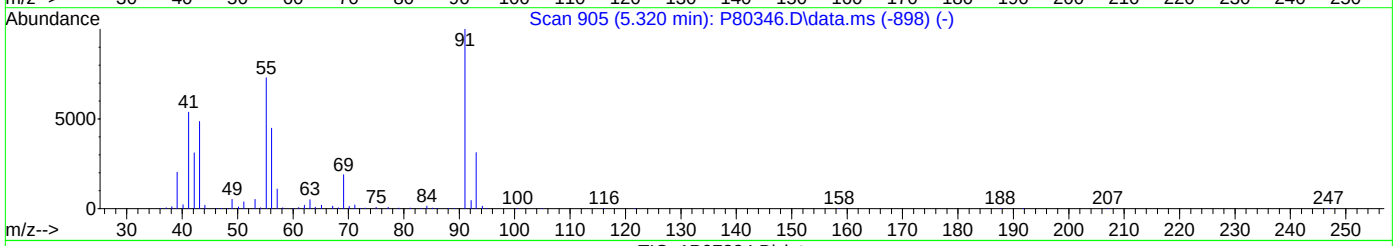
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97284.D
Acq On : 19 Jan 2023 10:47 pm
Operator : joannel
Sample : FC1987-1MSD 5X
Misc : MS53194,V1P3666,,,,,5
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jan 19 23:57:54 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97284.D\data.ms

(76) 1-Chlorohexane

5.643min (-0.003) 25.49ug/L m

response 168292

Ion	Exp%	Act%
91.00	100	100
55.00	69.00	71.40
41.00	56.30	60.72
43.10	43.30	46.33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\anndg\1-24\V5E1659\
Data File : 5E36851.d
Acq On : 23 Jan 2023 6:56 pm
Operator : joannel
Sample : FC1990-4MS 5X Inst : MSVOA20
Misc : MS53190,V5E1659,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Results File: appIX01-13-2023_.RES
Quant Time: Jan 24 02:13:01 2023
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	758162	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	596043	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	359182	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.073	113	213285	49.83	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.66%			
49) 1,2-Dichloroethane-d4	8.659	65	265257	54.04	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.08%			
62) Toluene-d8	10.542	98	794508	48.85	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.70%			
86) 4-Bromofluorobenzene	13.322	95	308438	51.58	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.855	85	89962	23.05	ug/L	99
3) Chloromethane	3.221	50	112102	27.01	ug/L	97
4) Vinyl Chloride	3.373	62	115512	27.19	ug/L	98
5) 1,3-Butadiene	3.404	39	126911	500.42	ug/L	94
6) Bromomethane	3.940	94	26197	13.74	ug/L	96
7) Chloroethane	4.153	64	77049	26.76	ug/L	96
8) Trichlorofluoromethane	4.385	101	170873	28.28	ug/L	92
9) Ethyl Ether	4.867	59	104511	30.35	ug/L	93
10) Ethanol	5.104	45	21658	668.17	ug/L	72
11) 1,2-Dichlorotrifluoroe...	5.153	67	154016	32.31	ug/L	95
12) 1,1-Dichloroethene	5.159	61	187177	34.36	ug/L	96
13) Freon 113	5.220	101	120841	30.35	ug/L	97
14) Carbon Disulfide	5.208	76	321232	30.83	ug/L	97
15) Iodomethane	5.367	142	77563	24.10	ug/L	99
16) Acrolein	5.629	56	87505	112.41	ug/L	99
17) Allyl chloride	5.818	41	159817	33.60	ug/L	96
18) Methylene Chloride	5.958	49	182878	35.15	ug/L	92
19) Acetone	6.019	43	126137	105.24	ug/L	92
20) Methyl acetate	6.171	43	458590	171.25	ug/L	97
21) trans-1,2-Dichloroethene	6.171	61	180790	32.80	ug/L	96
22) Hexane	6.263	56	121244	33.38	ug/L	95
23) Methyl Tert Butyl Ether	6.293	73	357653	29.74	ug/L	94
24) Acetonitrile	6.616	41	126378	289.88	ug/L	99
25) Di-isopropyl ether	6.750	45	422198	34.62	ug/L	98
26) Chloroprene	6.909	53	175469	17.59	ug/L	94
27) 1,1-Dichloroethane	6.939	63	243127	33.10	ug/L	97
28) Acrylonitrile	6.994	53	187391	132.26	ug/L	99
29) ETBE	7.189	59	410576	31.95	ug/L	96
30) Tert Butyl Alcohol	6.391	59	145940	306.02	ug/L	93
31) Vinyl acetate	7.214	43	1355258	176.47	ug/L	99
32) cis-1,2-Dichloroethene	7.580	96	130444	31.12	ug/L	92
33) 2,2-Dichloropropane	7.701	77	174018	28.78	ug/L	97
34) Bromochloromethane	7.811	128	64620	30.80	ug/L	90
35) Cyclohexane	7.823	56	238241	37.99	ug/L	92
36) Chloroform	7.872	83	230127	31.35	ug/L	96
37) Ethyl acetate	7.976	43	590563	154.46	ug/L	98
38) Tetrahydrofuran	8.067	42	40527	33.43	ug/L	93
40) Carbon Tetrachloride	8.049	117	179159	31.83	ug/L	98
41) 1,1,1-Trichloroethane	8.122	97	202343	31.50	ug/L	96
42) 2-Butanone	8.201	43	209921	115.64	ug/L	95
43) 1,1-Dichloropropene	8.250	75	172069	32.29	ug/L	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\anndg\1-24\V5E1659\
Data File : 5E36851.d
Acq On : 23 Jan 2023 6:56 pm
Operator : joannel
Sample : FC1990-4MS 5X Inst : MSVOA20
Misc : MS53190,V5E1659,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Results File: appIX01-13-2023_.RES
Quant Time: Jan 24 02:13:01 2023
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl formate	8.354	59	306715	169.71	ug/L		99
45) Propionitrile	8.531	54	193320	301.55	ug/L		88
46) Methacrylonitrile	8.555	41	885374	325.16	ug/L		98
47) Benzene	8.524	78	489563	31.66	ug/L		98
48) TAME	8.604	73	369089	31.86	ug/L		92
50) 1,2-Dichloroethane	8.732	62	200271	33.96	ug/L		99
51) tert Amyl alcohol	8.781	59	114749	306.59	ug/L		95
52) Trichloroethene	9.128	95	135683	32.13	ug/L		94
53) Methylcyclohexane	9.134	83	229809	34.53	ug/L		93
54) Dibromomethane	9.579	93	85374	30.29	ug/L		98
55) 1,2-Dichloropropane	9.671	63	131864	31.78	ug/L		94
56) Bromodichloromethane	9.719	83	177534	32.95	ug/L		97
57) Methyl methacrylate	9.835	41	114469	33.70	ug/L		94
58) 1,4-Dioxane	9.921	88	24875	617.42	ug/L		78
59) 2-Chloroethyl vinyl ether	10.262	63	987	0.52	ug/L	#	45
60) cis-1,3-Dichloropropene	10.353	75	189624	31.00	ug/L		93
63) Toluene	10.597	91	541066	30.17	ug/L		100
64) Isobutyl alcohol	8.671	43	102479	555.61	ug/L		97
65) 2-Nitropropane	10.829	41	218354	180.10	ug/L		99
66) 4-Methyl-2-pentanone	10.939	43	493060	116.68	ug/L		98
67) trans-1,3-Dichloropropene	11.000	75	188301	33.60	ug/L		96
68) Tetrachloroethene	11.000	166	144325	28.18	ug/L		96
69) Ethyl methacrylate	11.103	69	134704	25.32	ug/L		91
70) 1,1,2-Trichloroethane	11.164	83	103497	30.14	ug/L		95
71) Dibromochloromethane	11.359	129	135871	28.19	ug/L		99
72) 1,3-Dichloropropane	11.445	76	196241	28.05	ug/L		88
73) 1,2-Dibromoethane	11.621	107	124027	29.00	ug/L		98
74) 3,3-Dimethyl-1-butanol	11.707	57	506522	1150.61	ug/L		97
75) 2-hexanone	11.762	43	338168	108.32	ug/L		95
76) 1-Chlorohexane	12.054	91	180495	31.54	ug/L		89
77) Ethylbenzene	12.121	91	612432	29.84	ug/L		96
78) Chlorobenzene	12.127	112	345310	29.37	ug/L		97
79) 1,1,1,2-Tetrachloroethane	12.176	131	126443	29.08	ug/L		98
80) m,p-Xylene	12.262	91	954610	60.48	ug/L		98
81) o-Xylene	12.701	91	480891	31.15	ug/L		99
82) Styrene	12.755	104	343858	29.89	ug/L		97
83) Bromoform	12.816	173	97426	29.20	ug/L		98
84) Isopropylbenzene	13.005	105	600044	30.52	ug/L		99
87) cis-1,4-Dichloro-2-butene	13.676	53	42366	31.53	ug/L	#	85
88) n-Propylbenzene	13.426	91	741184	30.39	ug/L		99
89) Bromobenzene	13.456	156	144067	26.21	ug/L		88
90) 1,1,2,2-Tetrachloroethane	13.493	83	169211	29.13	ug/L		96
91) 1,3,5-Trimethylbenzene	13.609	105	506145	29.31	ug/L		98
92) 2-Chlorotoluene	13.621	91	470818	29.51	ug/L		97
93) trans-1,4-Dichloro-2-B...	13.676	53	42366	31.53	ug/L	#	79
94) 1,2,3-Trichloropropane	13.658	110	47079	26.75	ug/L		94
95) Cyclohexanone	13.737	55	19099	119.54	ug/L		94
96) 4-Chlorotoluene	13.786	91	425860	29.70	ug/L		98
98) tert-Butylbenzene	13.950	91	287340	30.12	ug/L		97
99) 1,2,4-Trimethylbenzene	14.017	105	519923	30.87	ug/L		98
100) Pentachloroethane	14.005	167	88375	26.64	ug/L		94
101) sec-Butylbenzene	14.133	105	641537	31.31	ug/L		99
102) 4-Isopropyltoluene	14.261	119	535578	30.10	ug/L		99
103) 1,3-Dichlorobenzene	14.401	146	278484	28.11	ug/L		97
104) 1,2,3-Trimethylbenzene	14.475	105	537197	31.56	ug/L		99
105) 1,4-Dichlorobenzene	14.481	146	292408	27.52	ug/L		97
106) n-Butylbenzene	14.682	92	282697	29.47	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\anndg\1-24\V5E1659\
Data File : 5E36851.d
Acq On : 23 Jan 2023 6:56 pm
Operator : joannel
Sample : FC1990-4MS 5X Inst : MSVOA20
Misc : MS53190,V5E1659,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Results File: appIX01-13-2023_.RES
Quant Time: Jan 24 02:13:01 2023
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

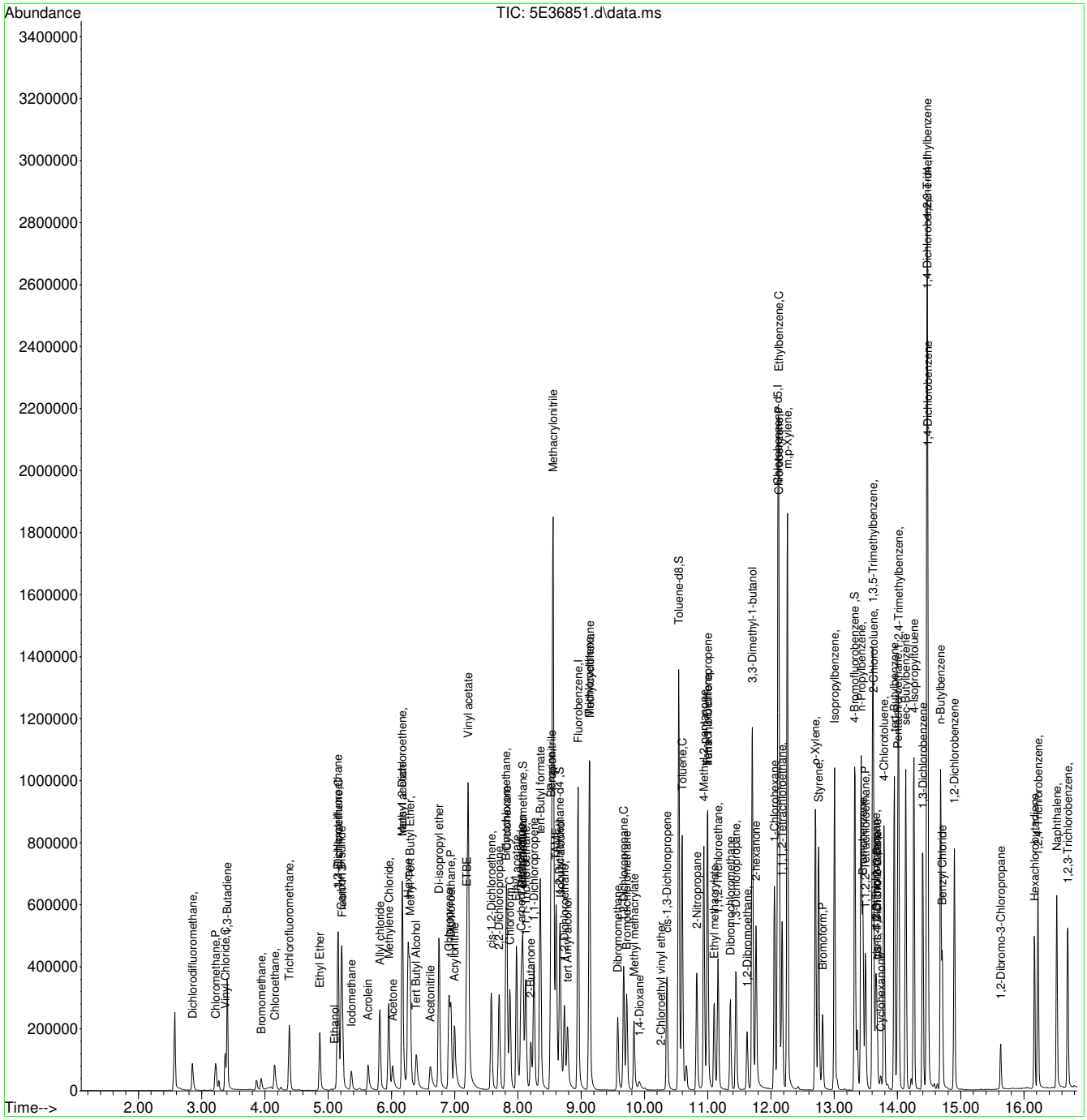
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) Benzyl Chloride	14.706	126	49973	26.49	ug/L #	70
108) 1,2-Dichlorobenzene	14.901	146	265073	27.87	ug/L	97
109) 1,2-Dibromo-3-Chloropr...	15.633	75	27907	27.21	ug/L	90
110) Hexachlorobutadiene	16.169	225	76744	26.75	ug/L	96
111) 1,2,4-Trichlorobenzene	16.224	180	170351	26.72	ug/L	97
112) Naphthalene	16.517	128	402846	26.25	ug/L	99
113) 1,2,3-Trichlorobenzene	16.694	180	143779	26.19	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\anndg\1-24\V5E1659\
Data File : 5E36851.d
Acq On : 23 Jan 2023 6:56 pm
Operator : joannel
Sample : FC1990-4MS 5X Inst : MSVOA20
Misc : MS53190,V5E1659,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Results File: appIX01-13-2023_.RES
Quant Time: Jan 24 02:13:01 2023
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\anndg\1-24\V5E1659\
Data File : 5E36852.d
Acq On : 23 Jan 2023 7:19 pm
Operator : joannel
Sample : FC1990-4MSD 5X Inst : MSVOA20
Misc : MS53190,V5E1659,,,,,5
ALS Vial : 28 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Results File: appIX01-13-2023_.RES
Quant Time: Jan 24 02:13:04 2023
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	774025	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	612437	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	367510	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.073	113	220638	50.49	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.98%			
49) 1,2-Dichloroethane-d4	8.659	65	268162	53.51	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.02%			
62) Toluene-d8	10.542	98	817043	48.89	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.78%			
86) 4-Bromofluorobenzene	13.322	95	316086	51.66	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.32%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.849	85	79193	19.87	ug/L	97
3) Chloromethane	3.221	50	100371	23.77	ug/L	97
4) Vinyl Chloride	3.373	62	100507	23.17	ug/L	99
5) 1,3-Butadiene	3.404	39	110199	425.62	ug/L	94
6) Bromomethane	3.940	94	30511	15.55	ug/L	93
7) Chloroethane	4.153	64	65566	22.96	ug/L	96
8) Trichlorofluoromethane	4.385	101	144748	23.47	ug/L	99
9) Ethyl Ether	4.867	59	91018	25.89	ug/L	98
10) Ethanol	5.111	45	19081	576.60	ug/L	77
11) 1,2-Dichlorotrifluoroe...	5.147	67	134251	27.59	ug/L	93
12) 1,1-Dichloroethene	5.159	61	166744	29.98	ug/L	95
13) Freon 113	5.220	101	106539	26.21	ug/L	95
14) Carbon Disulfide	5.208	76	281509	26.65	ug/L	99
15) Iodomethane	5.367	142	73636	22.52	ug/L	97
16) Acrolein	5.629	56	72180	90.95	ug/L	96
17) Allyl chloride	5.818	41	138697	28.57	ug/L	96
18) Methylene Chloride	5.958	49	163698	30.85	ug/L	95
19) Acetone	6.019	43	109176	89.22	ug/L	93
20) Methyl acetate	6.171	43	401634	146.91	ug/L	97
21) trans-1,2-Dichloroethene	6.171	61	158321	28.13	ug/L	93
22) Hexane	6.263	56	106253	28.65	ug/L	96
23) Methyl Tert Butyl Ether	6.293	73	317866	25.89	ug/L	92
24) Acetonitrile	6.616	41	106403	239.06	ug/L	96
25) Di-isopropyl ether	6.750	45	370281	29.74	ug/L	95
26) Chloroprene	6.909	53	149627	14.77	ug/L	94
27) 1,1-Dichloroethane	6.939	63	211784	28.24	ug/L	98
28) Acrylonitrile	7.000	53	161451	111.62	ug/L	98
29) ETBE	7.189	59	361839	27.58	ug/L	94
30) Tert Butyl Alcohol	6.391	59	132857	272.88	ug/L	96
31) Vinyl acetate	7.214	43	1168106	148.98	ug/L	99
32) cis-1,2-Dichloroethene	7.580	96	114983	26.87	ug/L	94
33) 2,2-Dichloropropane	7.702	77	151042	24.47	ug/L	98
34) Bromochloromethane	7.811	128	57329	26.77	ug/L	88
35) Cyclohexane	7.823	56	204908	32.45	ug/L	93
36) Chloroform	7.872	83	199078	26.56	ug/L	96
37) Ethyl acetate	7.976	43	506405	129.73	ug/L	98
38) Tetrahydrofuran	8.067	42	36360	29.38	ug/L	93
40) Carbon Tetrachloride	8.049	117	154846	26.95	ug/L	98
41) 1,1,1-Trichloroethane	8.122	97	177403	27.05	ug/L	98
42) 2-Butanone	8.201	43	185069	99.86	ug/L	94
43) 1,1-Dichloropropene	8.256	75	146877	26.99	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\anndg\1-24\V5E1659\
Data File : 5E36852.d
Acq On : 23 Jan 2023 7:19 pm
Operator : joannel
Sample : FC1990-4MSD 5X Inst : MSVOA20
Misc : MS53190,V5E1659,,,,,5
ALS Vial : 28 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Results File: appIX01-13-2023_.RES
Quant Time: Jan 24 02:13:04 2023
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl formate	8.354	59	260598	141.23	ug/L		99
45) Propionitrile	8.531	54	160909	245.85	ug/L		87
46) Methacrylonitrile	8.555	41	749802	269.73	ug/L		98
47) Benzene	8.524	78	419599	26.58	ug/L		98
48) TAME	8.604	73	318174	26.90	ug/L		90
50) 1,2-Dichloroethane	8.732	62	171267	28.44	ug/L		98
51) tert Amyl alcohol	8.787	59	103872	271.84	ug/L		96
52) Trichloroethene	9.134	95	114068	26.46	ug/L		98
53) Methylcyclohexane	9.134	83	199148	29.31	ug/L		94
54) Dibromomethane	9.579	93	73682	25.60	ug/L		97
55) 1,2-Dichloropropane	9.671	63	112184	26.49	ug/L		93
56) Bromodichloromethane	9.719	83	152177	27.66	ug/L		98
57) Methyl methacrylate	9.835	41	96311	27.95	ug/L		94
58) 1,4-Dioxane	9.914	88	21553	524.00	ug/L		78
59) 2-Chloroethyl vinyl ether	10.353	63	868	0.45	ug/L	#	1
60) cis-1,3-Dichloropropene	10.353	75	163018	26.10	ug/L		93
63) Toluene	10.597	91	463488	25.16	ug/L		99
64) Isobutyl alcohol	8.671	43	83709	441.70	ug/L		94
65) 2-Nitropropane	10.829	41	185813	149.16	ug/L		99
66) 4-Methyl-2-pentanone	10.939	43	423852	97.62	ug/L		98
67) trans-1,3-Dichloropropene	10.994	75	159104	27.63	ug/L		92
68) Tetrachloroethene	11.000	166	121980	23.18	ug/L		98
69) Ethyl methacrylate	11.103	69	116074	21.36	ug/L		93
70) 1,1,2-Trichloroethane	11.164	83	87805	24.89	ug/L		94
71) Dibromochloromethane	11.359	129	116594	23.54	ug/L		99
72) 1,3-Dichloropropane	11.451	76	167726	23.33	ug/L		90
73) 1,2-Dibromoethane	11.621	107	108377	24.66	ug/L		96
74) 3,3-Dimethyl-1-butanol	11.707	57	447408	989.12	ug/L		98
75) 2-hexanone	11.762	43	294272	92.21	ug/L		94
76) 1-Chlorohexane	12.054	91	155788	26.50	ug/L		87
77) Ethylbenzene	12.121	91	522304	24.77	ug/L		96
78) Chlorobenzene	12.127	112	295871	24.49	ug/L		97
79) 1,1,1,2-Tetrachloroethane	12.176	131	109170	24.43	ug/L		99
80) m,p-Xylene	12.262	91	810194	49.96	ug/L		98
81) o-Xylene	12.701	91	415324	26.19	ug/L		99
82) Styrene	12.755	104	293431	24.83	ug/L		97
83) Bromoform	12.816	173	83139	24.25	ug/L		98
84) Isopropylbenzene	13.005	105	514240	25.46	ug/L		99
87) cis-1,4-Dichloro-2-butene	13.676	53	36520	26.56	ug/L	#	80
88) n-Propylbenzene	13.426	91	628075	25.17	ug/L		99
89) Bromobenzene	13.450	156	123112	21.89	ug/L	#	81
90) 1,1,2,2-Tetrachloroethane	13.493	83	145572	24.50	ug/L		97
91) 1,3,5-Trimethylbenzene	13.609	105	430834	24.39	ug/L		97
92) 2-Chlorotoluene	13.621	91	402417	24.65	ug/L		98
93) trans-1,4-Dichloro-2-B...	13.676	53	36520	26.56	ug/L	#	73
94) 1,2,3-Trichloropropane	13.658	110	39831	22.12	ug/L		90
95) Cyclohexanone	13.731	55	17367	106.36	ug/L		92
96) 4-Chlorotoluene	13.786	91	365623	24.92	ug/L		97
98) tert-Butylbenzene	13.950	91	247113	25.31	ug/L		97
99) 1,2,4-Trimethylbenzene	14.017	105	444739	25.81	ug/L		97
100) Pentachloroethane	14.005	167	74466	22.06	ug/L		93
101) sec-Butylbenzene	14.133	105	552863	26.37	ug/L		99
102) 4-Isopropyltoluene	14.261	119	460298	25.28	ug/L		99
103) 1,3-Dichlorobenzene	14.401	146	239013	23.58	ug/L		97
104) 1,2,3-Trimethylbenzene	14.475	105	462491	26.55	ug/L		98
105) 1,4-Dichlorobenzene	14.481	146	253082	23.28	ug/L		98
106) n-Butylbenzene	14.682	92	239883	24.44	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\anndg\1-24\V5E1659\
Data File : 5E36852.d
Acq On : 23 Jan 2023 7:19 pm
Operator : joannel
Sample : FC1990-4MSD 5X Inst : MSVOA20
Misc : MS53190,V5E1659,,,,,5
ALS Vial : 28 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Results File: appIX01-13-2023_.RES
Quant Time: Jan 24 02:13:04 2023
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

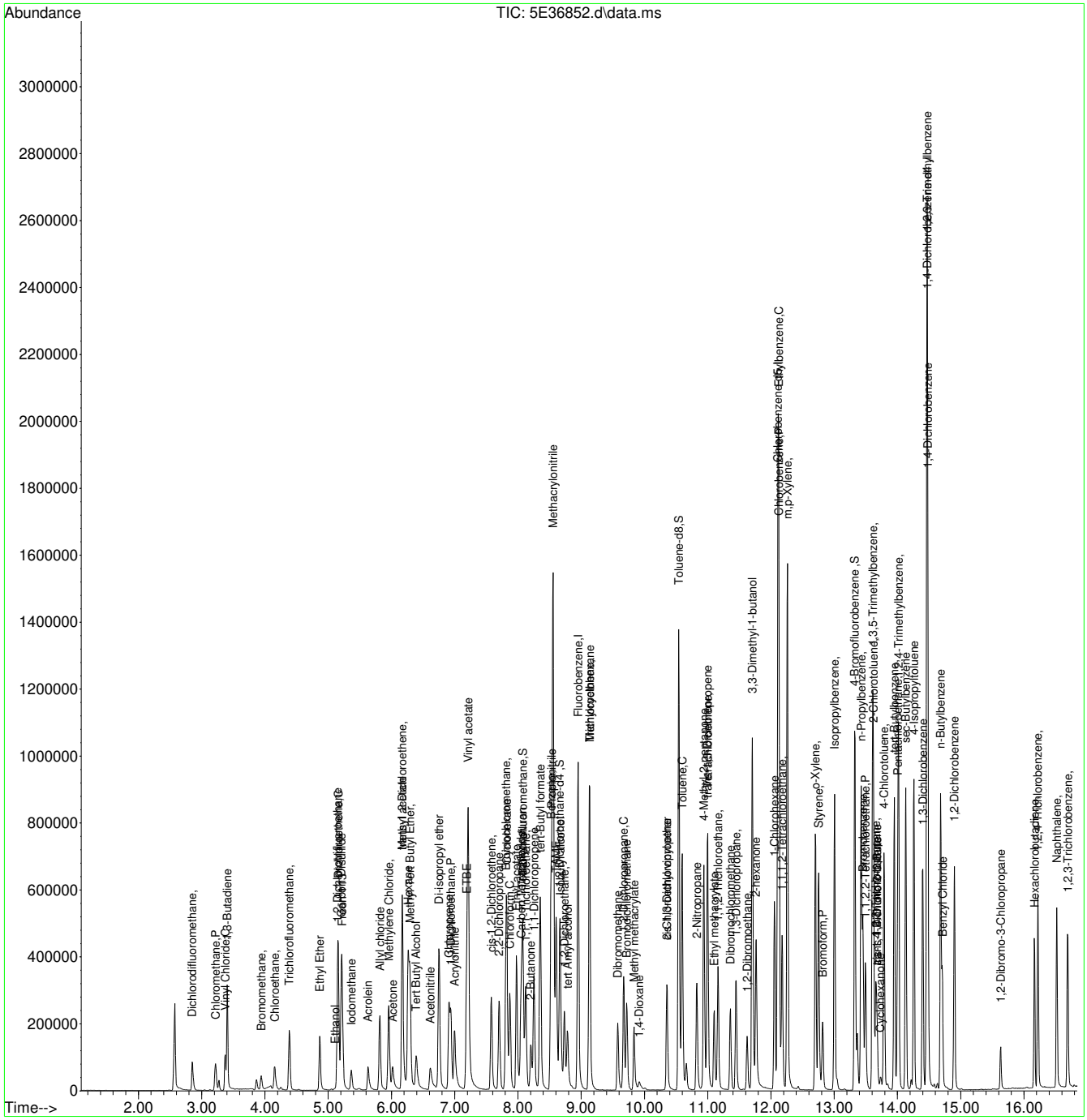
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
107) Benzyl Chloride	14.712	126	41434	21.78	ug/L	#	92
108) 1,2-Dichlorobenzene	14.901	146	229208	23.55	ug/L		97
109) 1,2-Dibromo-3-Chloropr...	15.633	75	24352	23.21	ug/L		92
110) Hexachlorobutadiene	16.169	225	67513	23.00	ug/L		96
111) 1,2,4-Trichlorobenzene	16.218	180	151833	23.27	ug/L		97
112) Naphthalene	16.517	128	354254	22.56	ug/L		100
113) 1,2,3-Trichlorobenzene	16.694	180	128485	22.87	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\anndg\1-24\V5E1659\
Data File : 5E36852.d
Acq On : 23 Jan 2023 7:19 pm
Operator : joannel
Sample : FC1990-4MSD 5X Inst : MSVOA20
Misc : MS53190,V5E1659,,,,,5
ALS Vial : 28 Sample Multiplier: 1

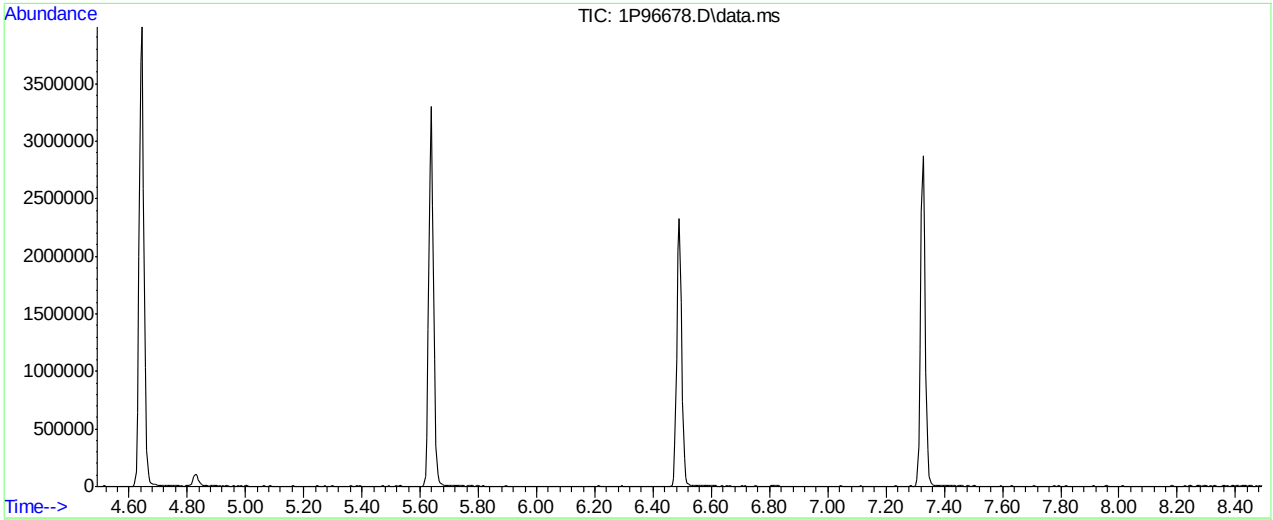
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Results File: appIX01-13-2023_.RES
Quant Time: Jan 24 02:13:04 2023
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration



Methods: SW-846 8260B

```
Data File : C:\msdchem\1\DATA\2022-12-29\1P96678.D       Vial: 2
Acq On    : 29 Dec 2022   9:43 am                    Operator: joannel
Sample    : BFB                                     Inst    : MSVOA13
Misc      : MS52806,V1P3655,,,,,                    Multiplr: 1.00
MS Integration Params: big.p

Method    : C:\msdchem\1\MET...V1P_2022-12-29.M (RTE Integrator)
Title     : SW-846 Method 5035A/8260B
```



AutoFind: Scans 1128, 1129, 1130; Background Corrected with Scan 1120

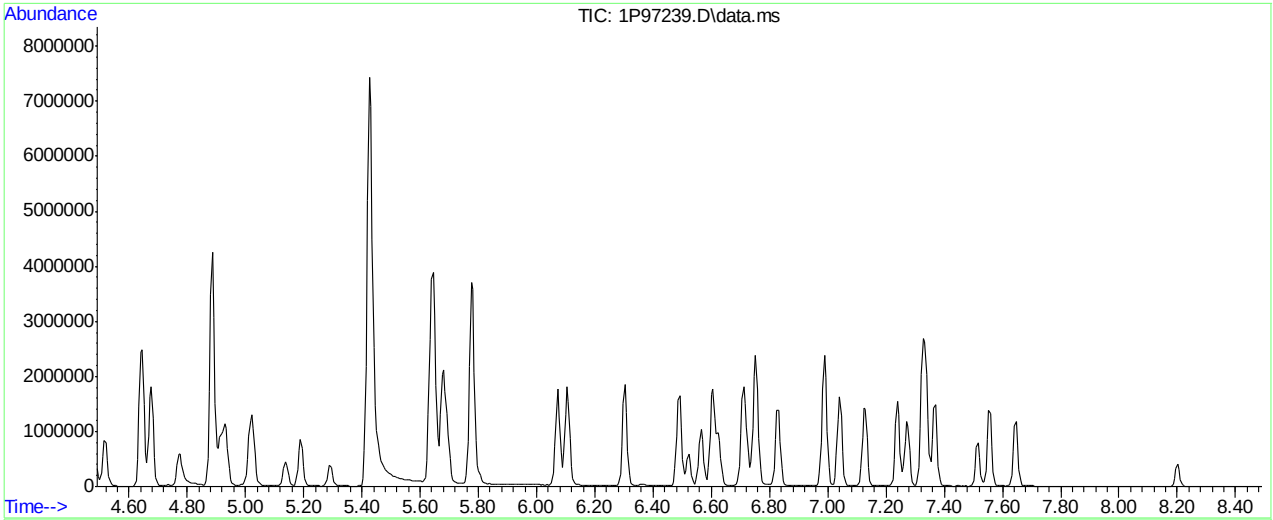
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.9	77042	PASS
75	95	30	60	51.6	222037	PASS
95	95	100	100	100.0	430122	PASS
96	95	5	9	6.9	29650	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	71.6	308074	PASS
175	174	5	9	7.4	22938	PASS
176	174	95	101	96.4	297002	PASS
177	176	5	9	6.5	19191	PASS

1P96678.D V1P_2022-12-29.M Sat Dec 31 09:22:45 2022

Methods: SW-846 8260B

```
Data File : C:\msdchem\1\DATA\2023-1-19\1P97239.D        Vial: 2
Acq On    : 19 Jan 2023  10:46 am                    Operator: joannel
Sample    : bfb                                      Inst    : MSVOA13
Misc      : MS53143,V1P3666,,,,,                     Multiplr: 1.00
MS Integration Params: big.p

Method    : C:\msdchem\1\MET...V1P_2022-12-29.M (RTE Integrator)
Title     : SW-846 Method 5035A/8260B
```



AutoFind: Scans 1128, 1129, 1130; Background Corrected with Scan 1121

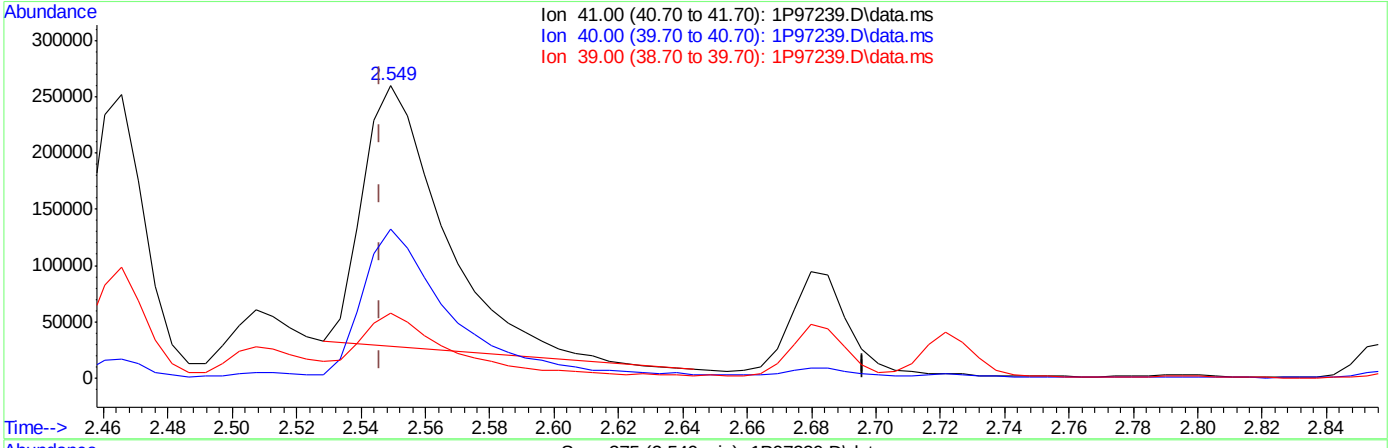
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	54800	PASS
75	95	30	60	52.1	156677	PASS
95	95	100	100	100.0	300501	PASS
96	95	5	9	6.6	19904	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	73.4	220608	PASS
175	174	5	9	7.5	16650	PASS
176	174	95	101	96.4	212586	PASS
177	176	5	9	7.1	15191	PASS

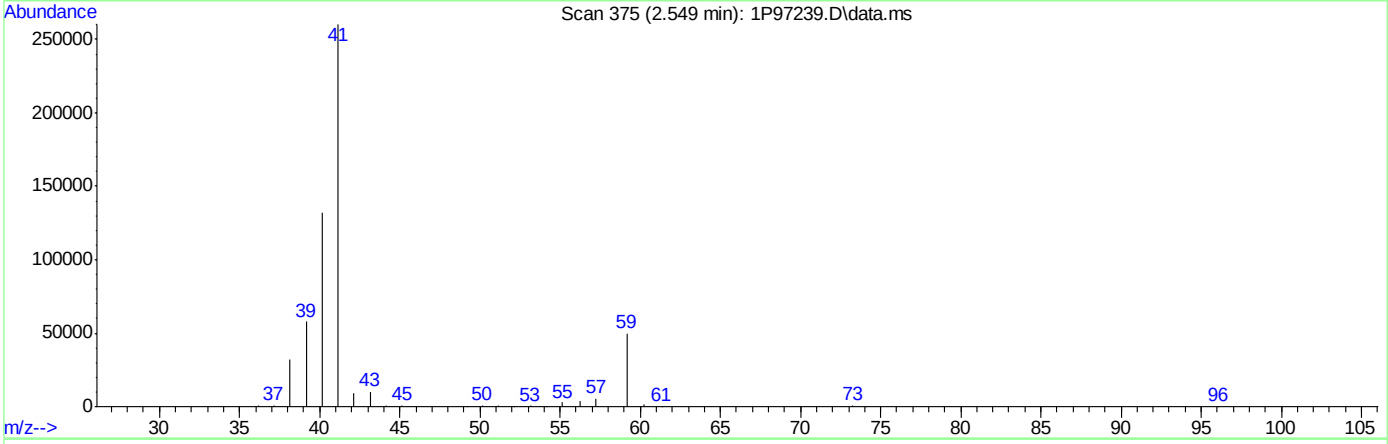
1P97239.D V1P_2022-12-29.M Thu Jan 19 15:16:16 2023

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5/BFB
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 14:25:58 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97239.D\data.ms

(25) Acetonitrile

2.549min (+0.003) 354.86ug/L

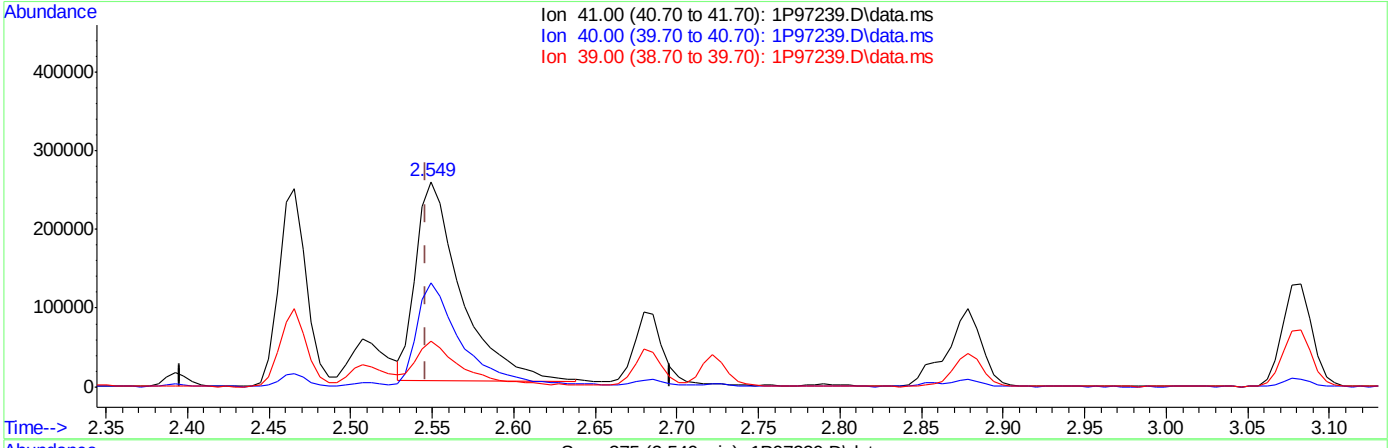
response 400274

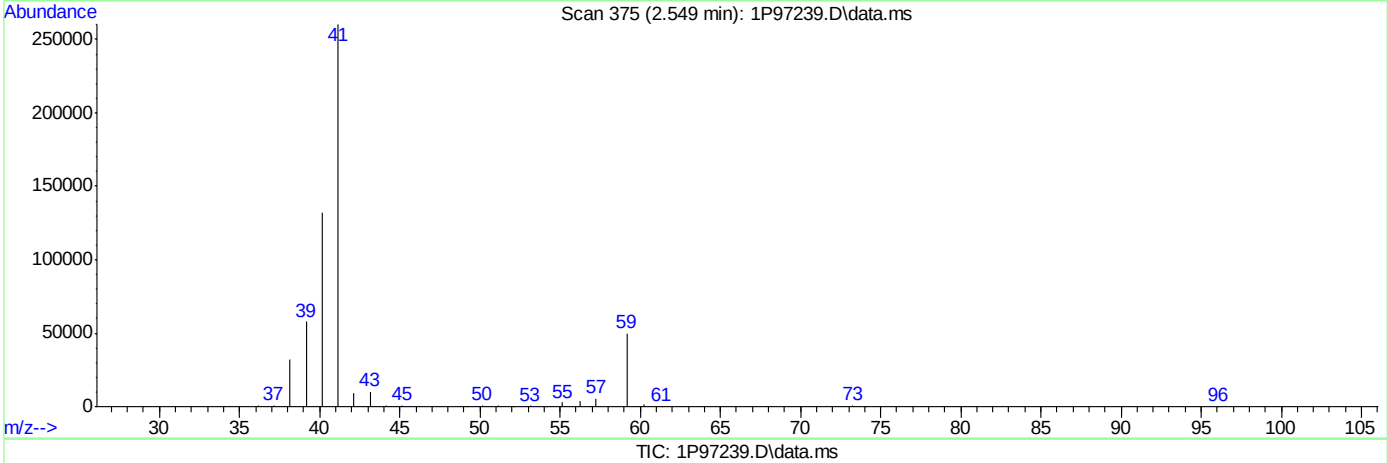
Ion	Exp%	Act%
41.00	100	100
40.00	51.10	51.01
39.00	21.10	21.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5/BFB
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 14:25:58 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97239.D\data.ms

(25) Acetonitrile

2.549min (+0.003) 434.58ug/L m

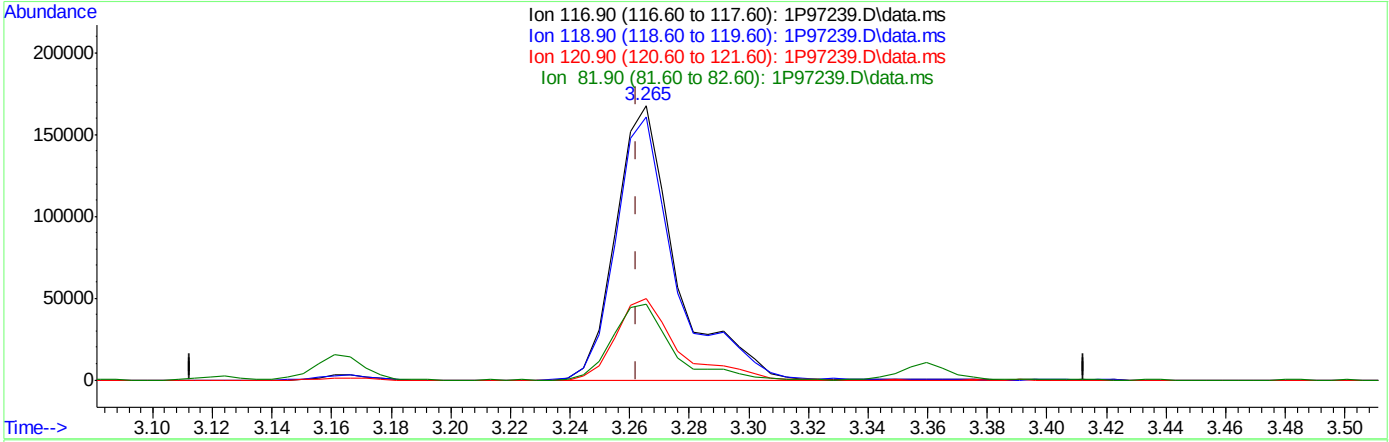
response 490196

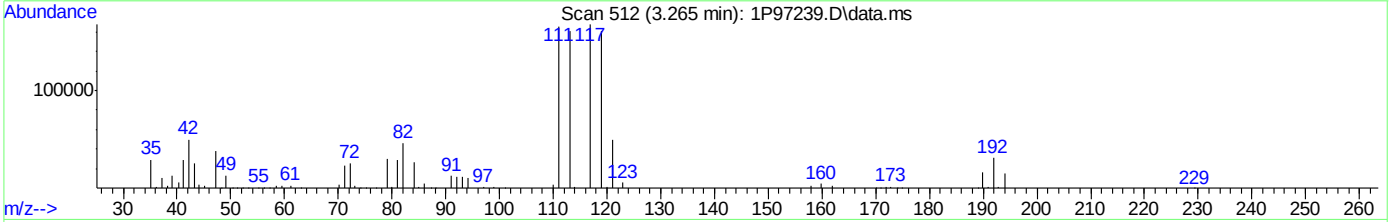
Ion	Exp%	Act%
41.00	100	100
40.00	51.10	50.76
39.00	21.10	22.21
0.00	0.00	0.00

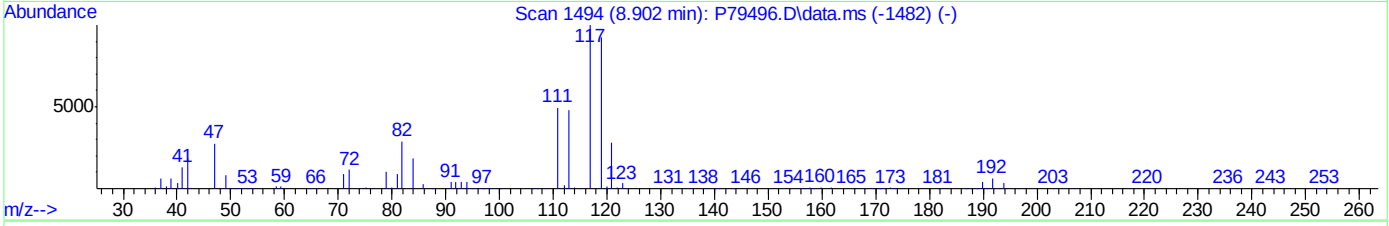
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5/BFB
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 14:25:58 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97239.D\data.ms

(40) Carbon Tetrachloride ( )

3.265min (+0.003) 50.90ug/L

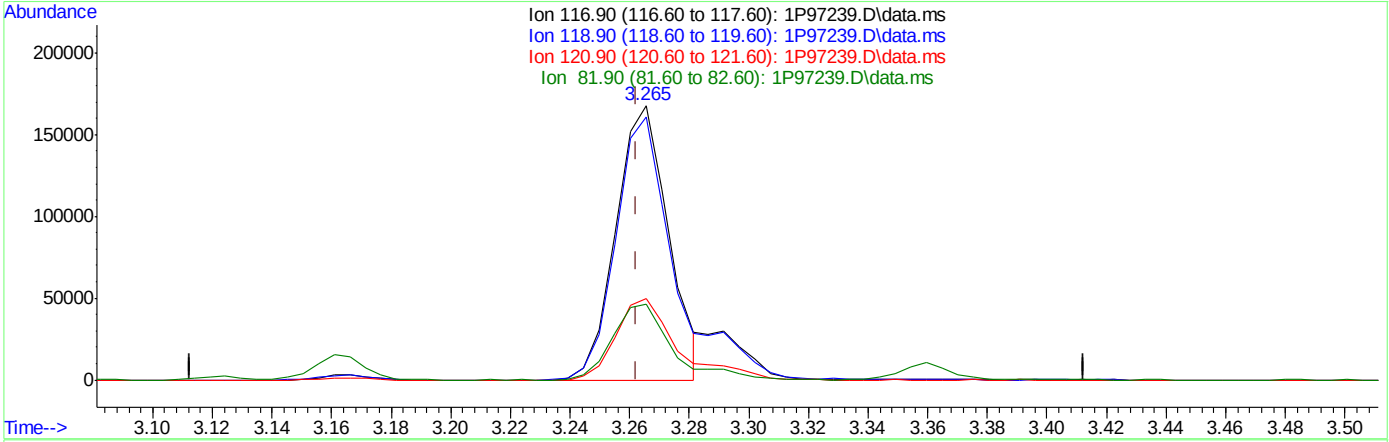
response 235982

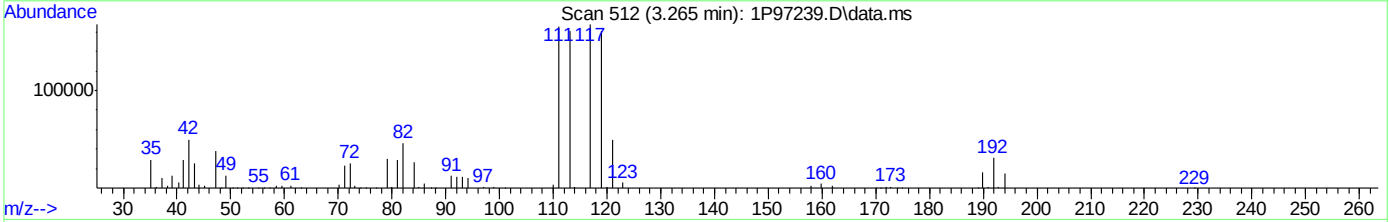
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	95.96
120.90	29.70	29.79
81.90	28.20	27.50

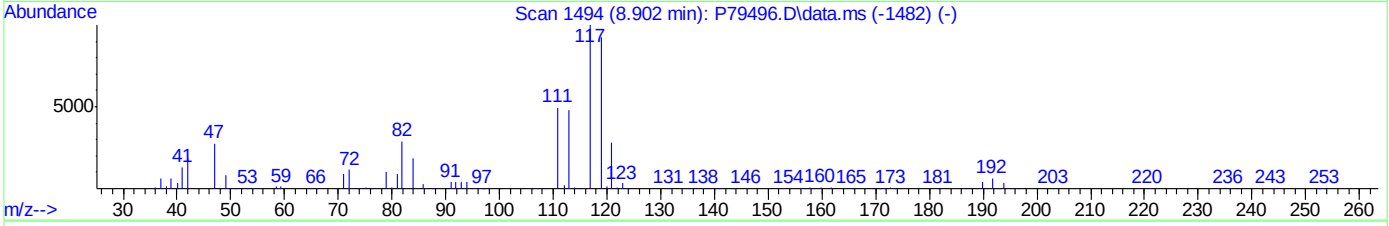
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5/BFB
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 14:25:58 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97239.D\data.ms

(40) Carbon Tetrachloride ( )

3.265min (+0.003) 44.03ug/L m

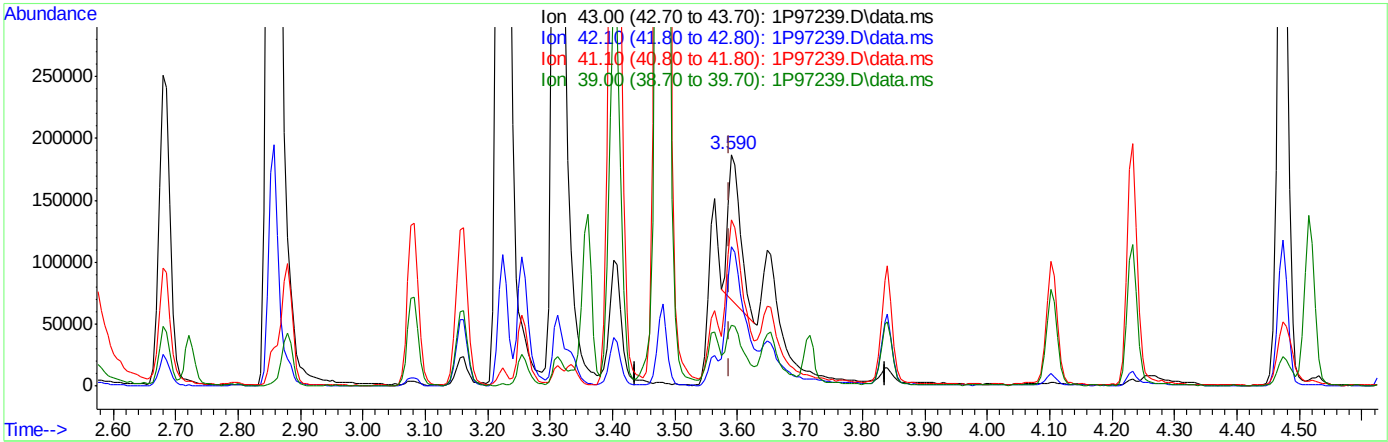
response 204143

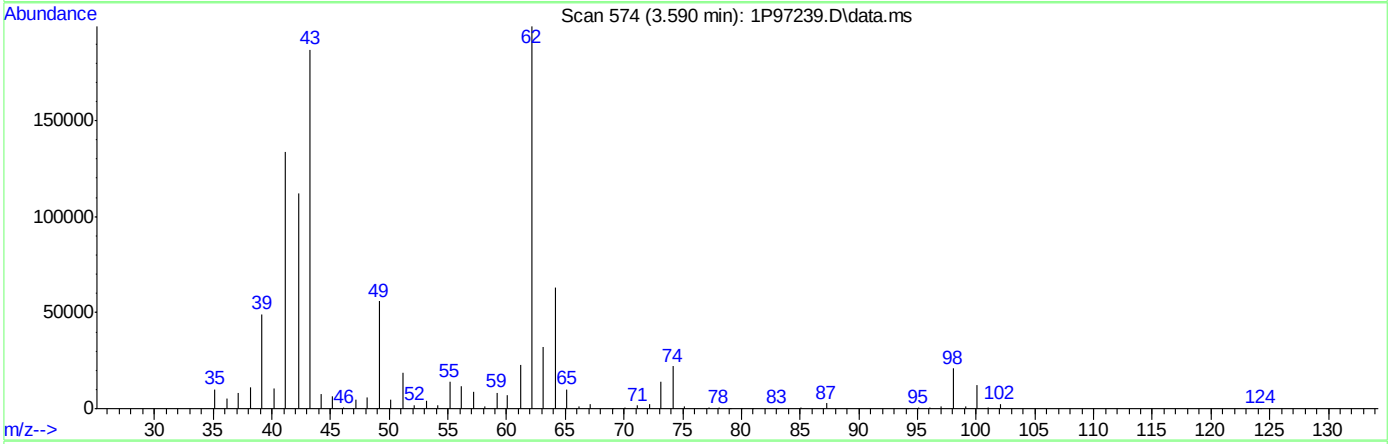
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	95.96
120.90	29.70	29.79
81.90	28.20	27.50

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5/BFB
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 14:27:42 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97239.D\data.ms

(50) Isobutyl alcohol

3.590min (+0.003) 256.23ug/L

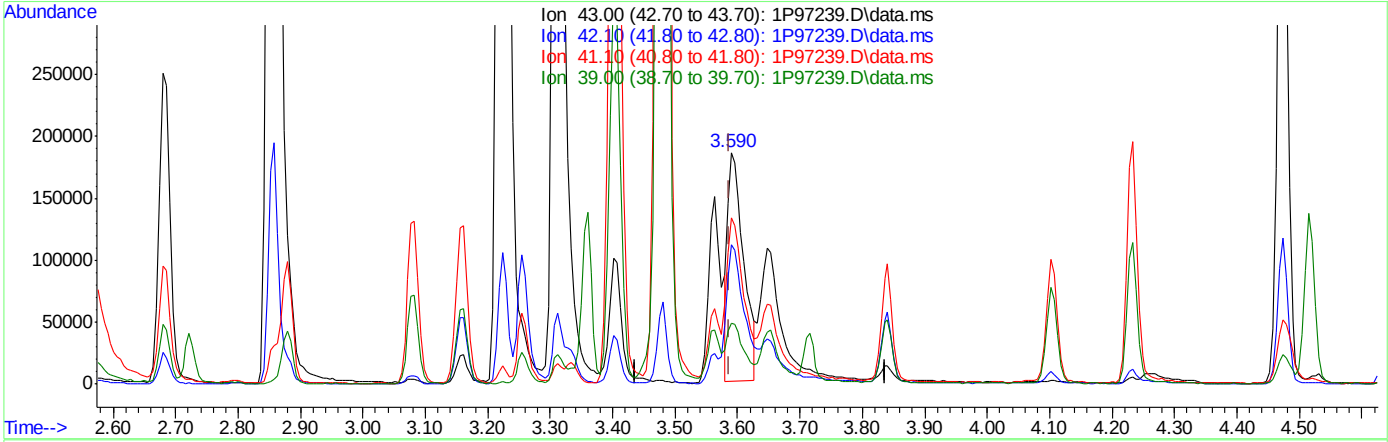
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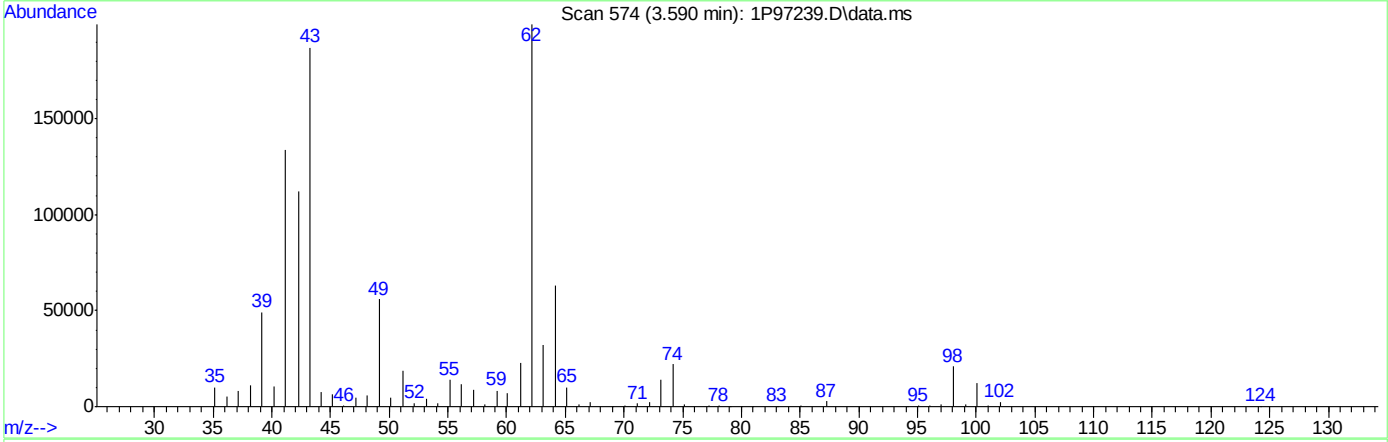
Ion	Exp%	Act%
43.00	100	100
42.10	59.80	66.36
41.10	70.50	71.27
39.00	27.50	24.79

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5/BFB
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 14:27:42 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97239.D\data.ms

(50) Isobutyl alcohol

3.590min (+0.003) 524.20ug/L m

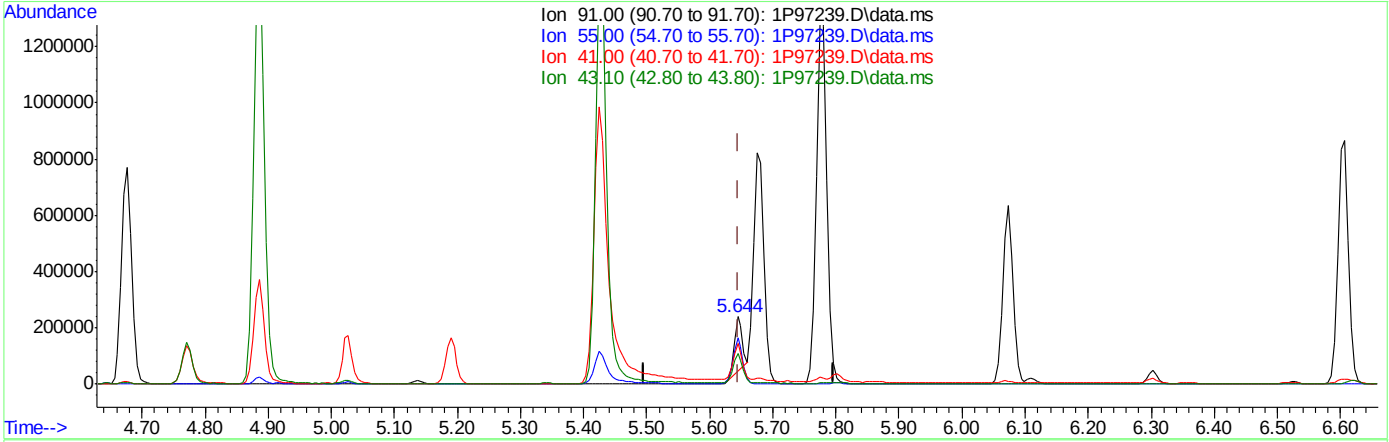
response 329354

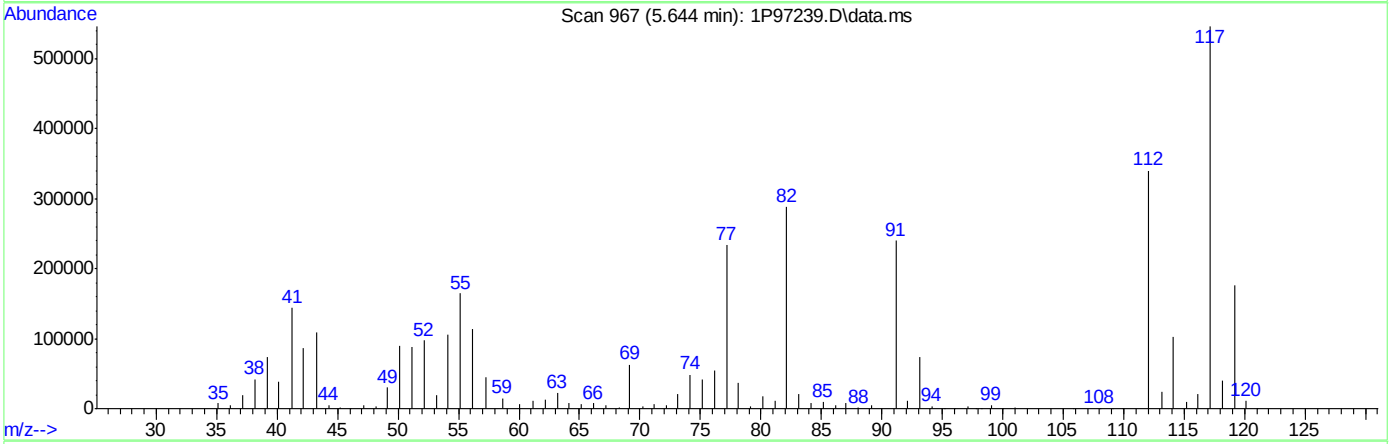
Ion	Exp%	Act%
43.00	100	100
42.10	59.80	60.04
41.10	70.50	71.56
39.00	27.50	26.38

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5/BFB
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 14:27:42 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97239.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.002) 27.96ug/L

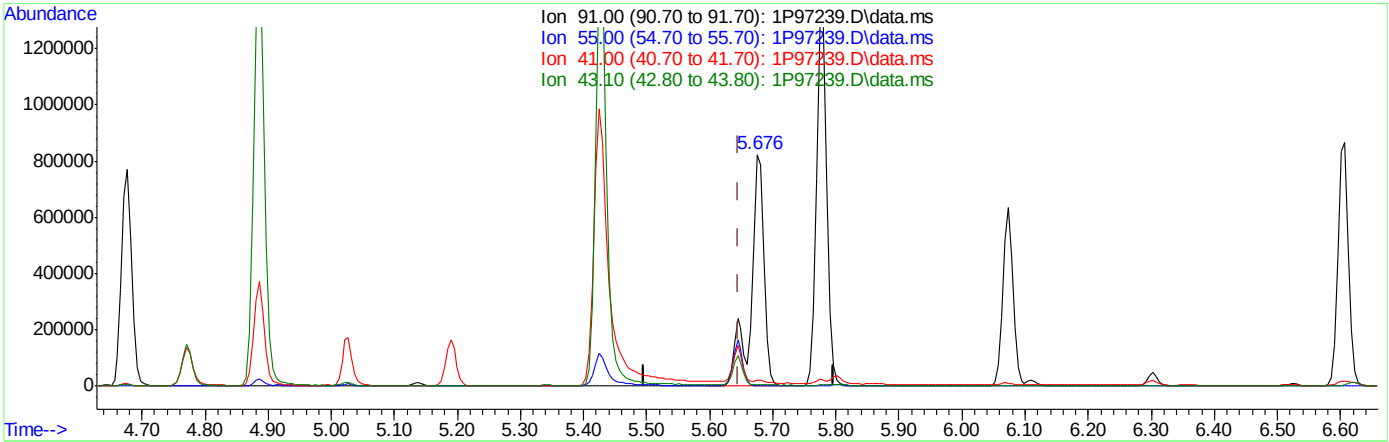
response 184811

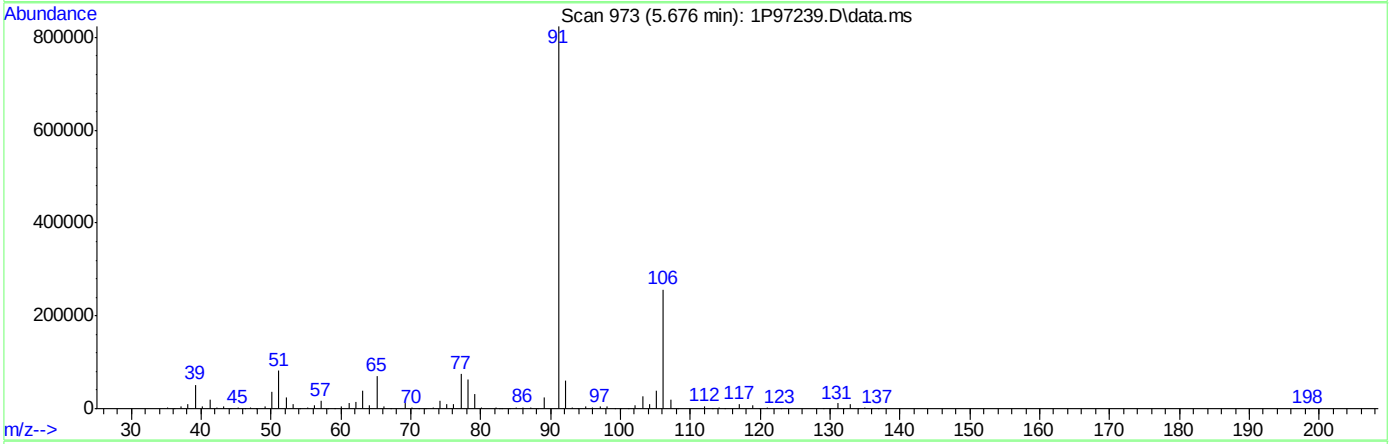
Ion	Exp%	Act%
91.00	100	100
55.00	69.00	65.06
41.00	56.30	52.41
43.10	43.30	42.84

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5/BFB
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 14:27:42 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97239.D\data.ms

(76) 1-Chlorohexane

5.676min (+0.029) 183.36ug/L m

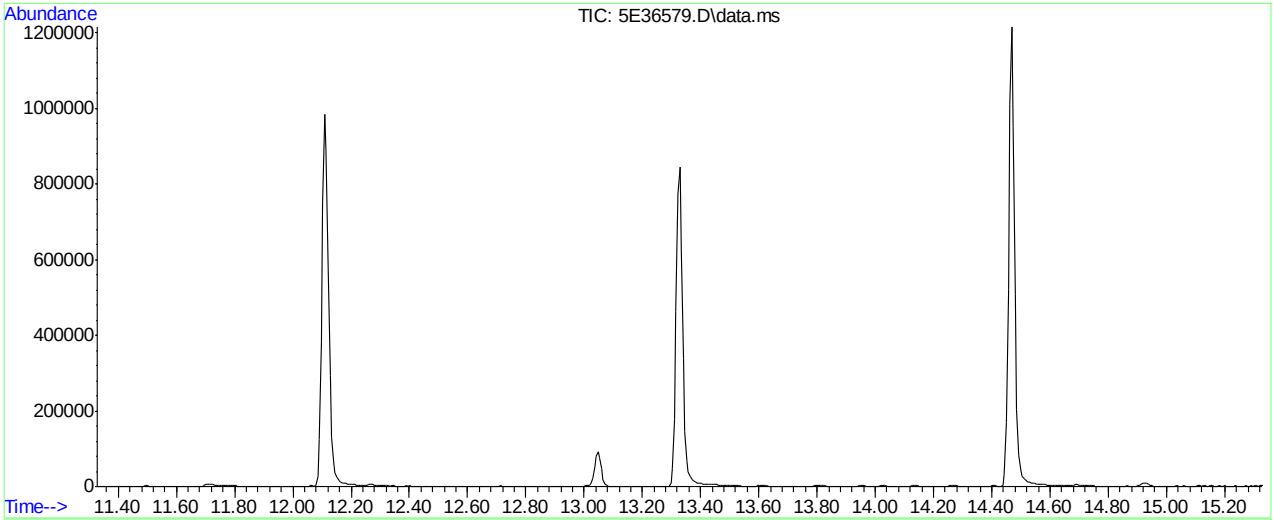
response 1211895

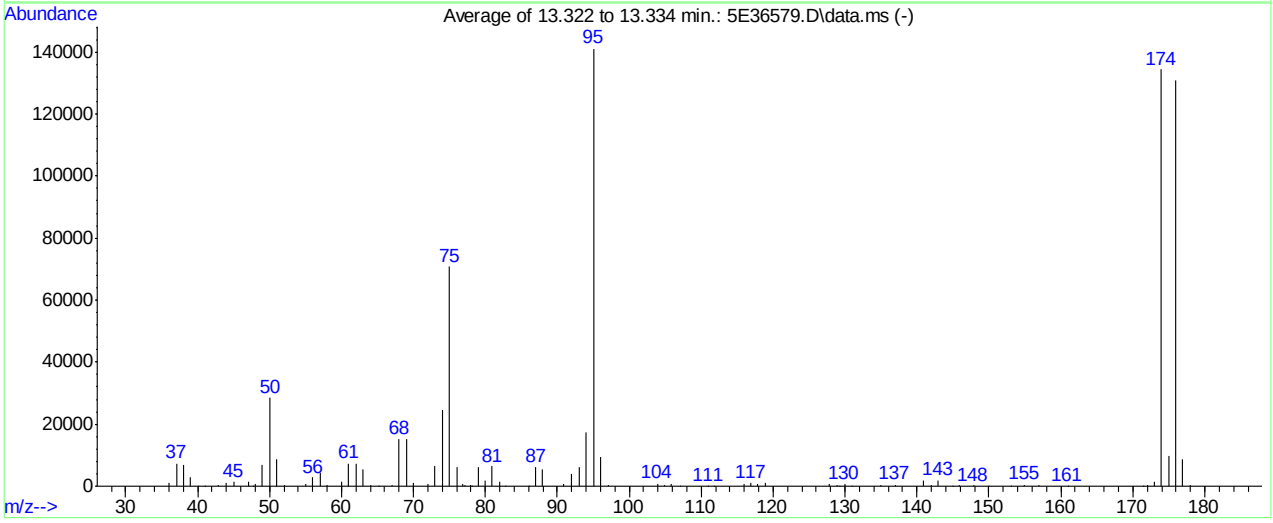
Ion	Exp%	Act%
91.00	100	100
55.00	69.00	0.40#
41.00	56.30	2.43#
43.10	43.30	0.63#

Methods: SW-846 8260B

```
Data File : C:\msdchem\1\data\01-13-2023\5E36579.D       Vial: 1
Acq On    : 13 Jan 2023   9:41 am                    Operator: joannel
Sample    : BFB                                      Inst    : MSVOA20
Misc      : MS53151,V5E1647,,,,,                     Multiplr: 1.00
MS Integration Params: ult...ll.p

Method   : C:\msdchem\1\met...pIX01-13-2023_.M (RTE Integrator)
Title    : SW-846 Method 5030B/8260B & EPA 624
```





AutoFind: Scans 2007, 2008, 2009; Background Corrected with Scan 1999

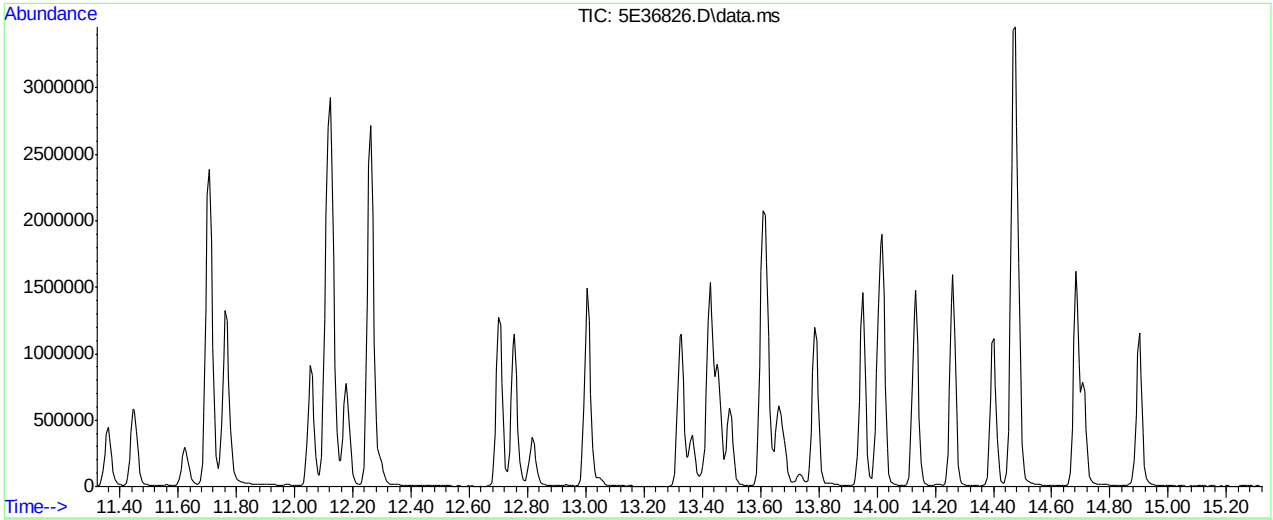
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	28405	PASS
75	95	30	60	50.1	70781	PASS
95	95	100	100	100.0	141141	PASS
96	95	5	9	6.7	9519	PASS
173	174	0.00	2	1.1	1425	PASS
174	95	50	100	95.2	134309	PASS
175	174	5	9	7.3	9850	PASS
176	174	95	101	97.5	130947	PASS
177	176	5	9	6.6	8582	PASS

5E36579.D appIX01-13-2023_.M Fri Jan 13 15:20:13 2023

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\01-23-2023\5E36826.D Vial: 2
Acq On : 23 Jan 2023 9:15 am Operator: joannel
Sample : BFB Inst : MSVOA20
Misc : MS53151,V5E1659,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...pIX01-13-2023_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624



AutoFind: Scans 2006, 2007, 2008; Background Corrected with Scan 1999

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	44075	PASS
75	95	30	60	55.4	103917	PASS
95	95	100	100	100.0	187627	PASS
96	95	5	9	6.7	12507	PASS
173	174	0.00	2	0.9	1441	PASS
174	95	50	100	85.4	160264	PASS
175	174	5	9	7.7	12342	PASS
176	174	95	101	97.1	155571	PASS
177	176	5	9	6.9	10727	PASS

5E36826.D appIX01-13-2023_.M Mon Jan 23 09:34:11 2023

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/03/23 11:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96680.D
Acq On : 29 Dec 2022 10:38 am
Operator : joannel
Sample : IC3655-1
Misc : MS52806,V1P3655,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 11:07:26 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.711	96	1701771	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.635	117	1125716	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.324	152	491018	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.257	113	344282	44.97	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 89.94%			
49) 1,2-Dichloroethane-d4	3.544	65	496794	47.99	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 95.98%			
63) Toluene-d8	4.642	98	1620527	49.98	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.96%			
86) 4-Bromofluorobenzene	6.487	174	381217	47.85	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.70%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.118	85	8059	1.01	ug/L	90
3) Chloromethane	1.244	50	7657	1.00	ug/L	95
4) 1,3-butadiene	1.312	39	7208	1.28	ug/L	85
5) Vinyl Chloride	1.296	62	8034	1.23	ug/L	94
6) Bromomethane	1.500	94	5410	2.25	ug/L	92
7) Chloroethane	1.578	64	4228	1.70	ug/L	82
8) Trichlorofluoromethane	1.672	101	12242	1.32	ug/L	90
9) Ethyl Ether	1.866	59	6703	1.34	ug/L	89
10) Ethanol	1.944	45	5277	28.98	ug/L	99
11) 1,2-Dichlorotrifluoroe...	1.970	67	7432	0.96	ug/L	97
12) 1,1-Dichloroethene	1.976	61	8055	0.82	ug/L	98
13) Freon 113	2.007	101	4761	0.76	ug/L	94
14) Carbon Disulfide	1.997	76	15681	0.92	ug/L	99
15) Iodomethane	2.054	142	4728	1.12	ug/L	98
16) Acrolein	2.148	56	16177	7.60	ug/L	98
17) Allyl chloride	2.242	41	10121	1.02	ug/L	91
18) Methylene Chloride	2.295	49	21638	2.47	ug/L	94
19) Acetone	2.310	43	24639	5.81	ug/L	93
20) Methyl acetate	2.389	43	43896	5.01	ug/L	98
21) trans-1,2-Dichloroethene	2.394	61	7879	0.81	ug/L	92
22) Hexane	2.462	56	5414m	1.02	ug/L	
23) Methyl Tert Butyl Ether	2.462	73	19839	0.88	ug/L	82
24) Tert Butyl Alcohol	2.498	59	21667	10.20	ug/L	95
25) Acetonitrile	2.546	41	20499	11.88	ug/L	94
26) Di-isopropyl ether	2.676	45	20095	0.96	ug/L	96
27) Chloroprene	2.723	53	25169	0.83	ug/L	95
28) 1,1-Dichloroethane	2.723	63	10387	0.84	ug/L	88
29) Acrylonitrile	2.723	52	15733	4.01	ug/L	98
30) ETBE	2.875	59	18551	0.87	ug/L	93
31) Vinyl acetate	2.854	43	52716	3.56	ug/L	99
32) cis-1,2-Dichloroethene	3.016	96	6341	0.87	ug/L	97
33) 2,2-Dichloropropane	3.079	77	8774	0.76	ug/L	91
34) Bromochloromethane	3.115	128	2597	0.87	ug/L	97
35) Cyclohexane	3.157	56	8611	0.82	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96680.D
Acq On : 29 Dec 2022 10:38 am
Operator : joannel
Sample : IC3655-1
Misc : MS52806,V1P3655,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 11:07:26 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.157	83	10281	0.80	ug/L		83
37) Ethyl acetate	3.220	43	39117	3.58	ug/L		99
38) Tetrahydrofuran	3.251	42	6037	1.38	ug/L		79
40) Carbon Tetrachloride	3.262	117	6408m	0.67	ug/L		
41) 1,1,1-Trichloroethane	3.288	97	8221	0.72	ug/L		90
42) 2-Butanone	3.309	43	37987	4.99	ug/L		99
43) 1,1-Dichloropropene	3.356	75	8011	0.82	ug/L		86
44) tert-Butyl formate	3.403	59	21594	3.54	ug/L	#	68
45) Propionitrile	3.450	54	22218	10.76	ug/L		99
46) Methacrylonitrile	3.476	41	76108	10.70	ug/L		96
47) Benzene	3.487	78	26904	0.97	ug/L		82
48) TAME	3.560	73	18796	0.90	ug/L		96
50) Isobutyl alcohol	3.581	43	19744m	25.63	ug/L		
51) 1,2-Dichloroethane	3.581	62	9566	0.94	ug/L		96
52) Tert Amyl Alcohol	3.643	59	13870	8.27	ug/L		80
53) Trichloroethene	3.821	95	7213	0.97	ug/L		96
54) Methylcyclohexane	3.837	83	8519	0.83	ug/L		90
55) Dibromomethane	4.041	93	4105	1.00	ug/L		89
56) 1,2-Dichloropropane	4.098	63	6556	0.94	ug/L		89
57) Bromodichloromethane	4.140	83	6849	0.79	ug/L		94
58) Methyl methacrylate	4.229	41	7859	1.04	ug/L		89
59) 1,4-Dioxane	4.255	88	3605	22.91	ug/L		89
60) 2-Chloroethyl vinyl ether	4.469	63	35138	6.99	ug/L		94
61) cis-1,3-Dichloropropene	4.516	75	9390	0.87	ug/L		91
64) Toluene	4.673	91	28757	0.97	ug/L		98
65) 2-Nitropropane	4.767	41	6536m	2.27	ug/L		
66) 4-Methyl-2-pentanone	4.882	43	59549	5.04	ug/L		95
67) trans-1,3-Dichloropropene	4.914	75	7862	0.84	ug/L	#	75
68) Tetrachloroethene	4.929	166	5970	0.89	ug/L		89
69) Ethyl methacrylate	5.029	69	8792	0.91	ug/L		93
70) 1,1,2-Trichloroethane	5.013	83	5013	1.01	ug/L		89
71) Dibromochloromethane	5.139	129	3814	0.66	ug/L		99
72) 1,3-Dichloropropane	5.191	76	10581	0.96	ug/L		95
73) 1,2-Dibromoethane	5.290	107	5894	0.98	ug/L		94
74) 3,3-dimethyl-1-butanol	5.431	57	74053	42.95	ug/L		95
75) 2-hexanone	5.431	43	57010	5.08	ug/L	#	77
76) 1-Chlorohexane	5.646	91	9693m	1.09	ug/L		
77) Ethylbenzene	5.677	91	28518	0.92	ug/L		98
78) Chlorobenzene	5.646	112	16307	0.99	ug/L		79
79) 1,1,1,2-Tetrachloroethane	5.688	131	4647	0.79	ug/L		81
80) m,p-Xylene	5.776	91	42888	1.84	ug/L		94
81) o-Xylene	6.069	91	22236	0.98	ug/L		98
82) Styrene	6.101	104	14985	0.90	ug/L		92
83) Bromoform	6.111	173	2102	0.64	ug/L		92
84) Isopropylbenzene	6.299	105	24820	0.95	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.524	53	3224	1.00	ug/L	#	77
88) n-Propylbenzene	6.602	91	28285	0.93	ug/L		90
89) Bromobenzene	6.566	156	5795	0.91	ug/L		92
90) 1,1,2,2-Tetrachloroethane	6.623	83	8066	0.93	ug/L		94
91) 1,3,5-Trimethylbenzene	6.749	105	19758	0.98	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96680.D
Acq On : 29 Dec 2022 10:38 am
Operator : joannel
Sample : IC3655-1
Misc : MS52806,V1P3655,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 11:07:26 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

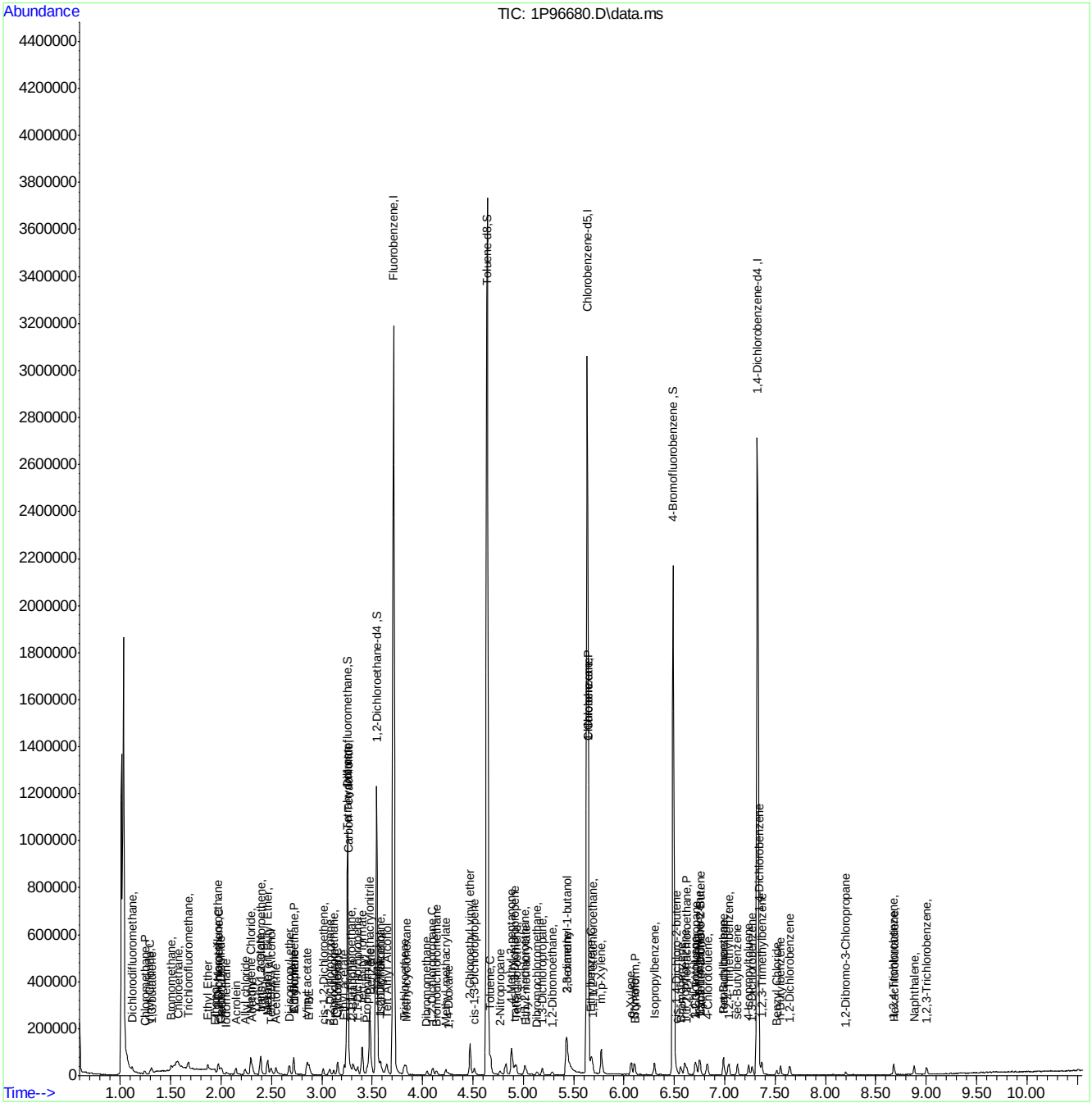
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 2-Chlorotoluene	6.707	91	18505	1.02	ug/L		97
93) trans-1,4-Dichloro-2-B...	6.754	53	2992	0.96	ug/L	#	56
94) 1,2,3-Trichloropropane	6.717	110	3215	1.04	ug/L		91
95) Cyclohexanone	6.754	55	2727	5.53	ug/L	#	87
96) 4-Chlorotoluene	6.827	91	18962	0.99	ug/L		97
97) tert-Butylbenzene	6.989	91	11243	0.99	ug/L		93
99) 1,2,4-Trimethylbenzene	7.042	105	18907	1.00	ug/L		95
100) Pentachloroethane	6.989	167	2183	0.64	ug/L	#	45
101) sec-Butylbenzene	7.125	105	21752	0.99	ug/L		97
102) 4-Isopropyltoluene	7.235	119	17156	0.91	ug/L		97
103) 1,3-Dichlorobenzene	7.272	146	11508	1.03	ug/L		95
104) 1,2,3-Trimethylbenzene	7.366	105	19234	0.99	ug/L		94
105) 1,4-Dichlorobenzene	7.340	146	11921m	1.03	ug/L		
106) n-Butylbenzene	7.554	92	7966	0.85	ug/L		81
107) Benzyl Chloride	7.517	126	1619	0.54	ug/L	#	76
108) 1,2-Dichlorobenzene	7.648	146	9959	0.95	ug/L		94
109) 1,2-Dibromo-3-Chloropr...	8.197	75	1745	0.75	ug/L	#	64
110) Hexachlorobutadiene	8.683	225	1804	0.68	ug/L	#	80
111) 1,2,4-Trichlorobenzene	8.678	180	5350	1.01	ug/L		92
112) Naphthalene	8.882	128	18295	1.06	ug/L		96
113) 1,2,3-Trichlorobenzene	9.002	180	5133	0.91	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96680.D
Acq On : 29 Dec 2022 10:38 am
Operator : joannel
Sample : IC3655-1
Misc : MS52806,V1P3655,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 11:07:26 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration



Manual Integration Approval Summary

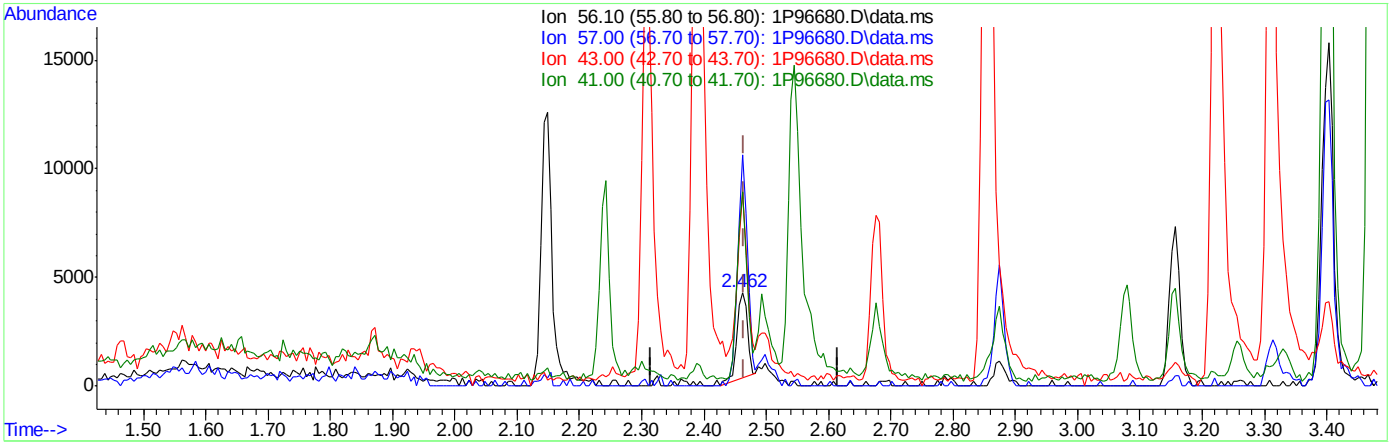
Sample Number: V1P3655-IC3655
Lab FileID: 1P96680.D
Injection Time: 12/29/22 10:38
Method: SW846 8260D
Analyst approved: 12/31/22 09:29 Adelard Lefebvre
Supervisor approved: 01/03/23 11:45 Karen Watson

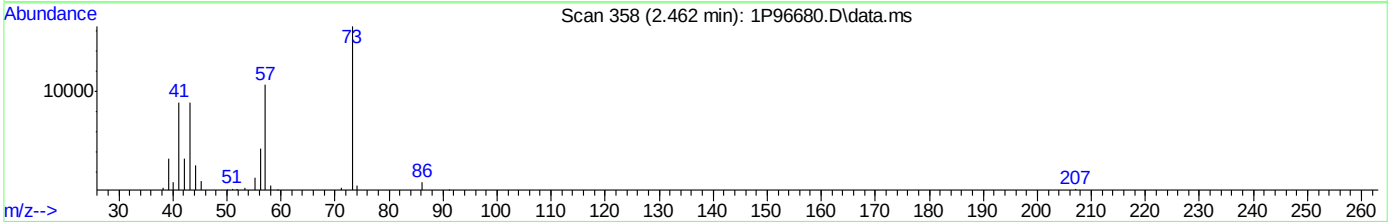
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		2.46	Overlapping peak
Carbon Tetrachloride	56-23-5		3.26	Missed peak
Isobutyl Alcohol	78-83-1		3.58	Split peak
2-Nitropropane	79-46-9		4.77	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Overlapping peak
1,4-Dichlorobenzene	106-46-7		7.34	Missed peak

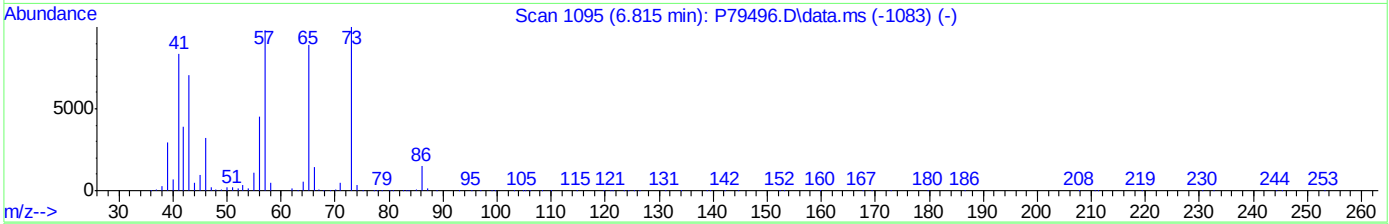
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96680.D
Acq On : 29 Dec 2022 10:38 am
Operator : joannel
Sample : IC3655-1
Misc : MS52806,V1P3655,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 10:58:46 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96680.D\data.ms

(22) Hexane

2.462min (-0.004) 0.86ug/L

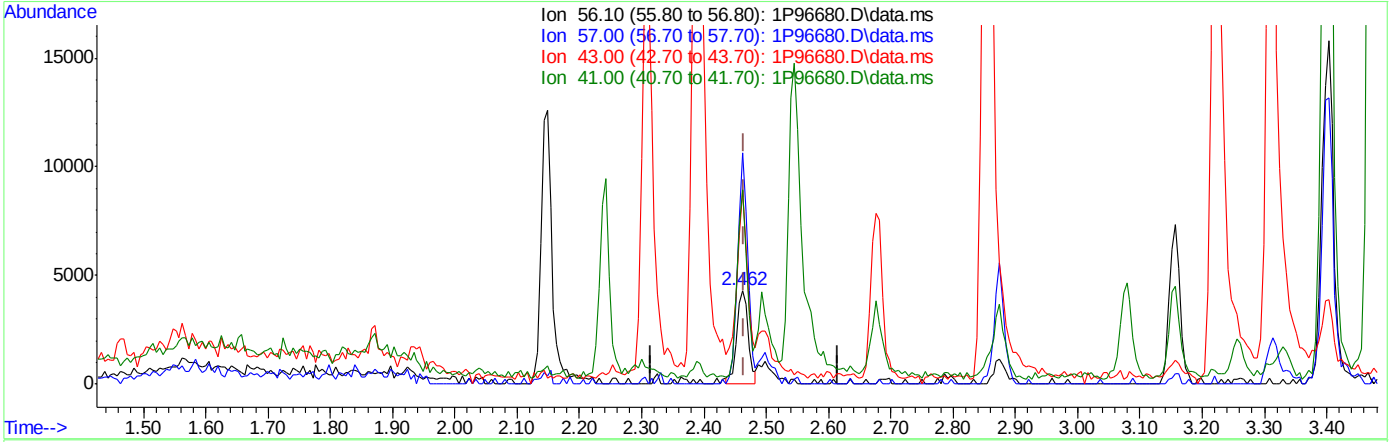
response 4527

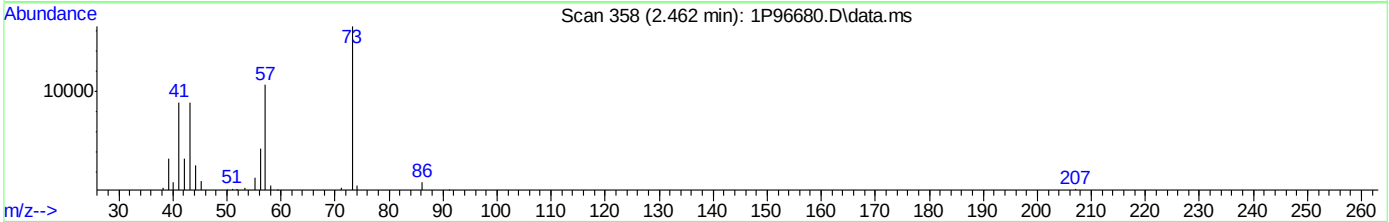
Ion	Exp%	Act%
56.10	100	100
57.00	250.90	246.45
43.00	172.00	166.45
41.00	198.00	198.73

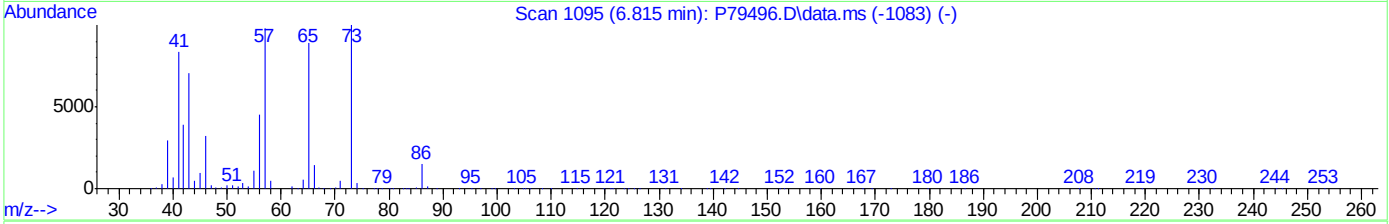
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96680.D
Acq On : 29 Dec 2022 10:38 am
Operator : joannel
Sample : IC3655-1
Misc : MS52806,V1P3655,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 10:58:46 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96680.D\data.ms

(22) Hexane

2.462min (-0.004) 1.02ug/L m

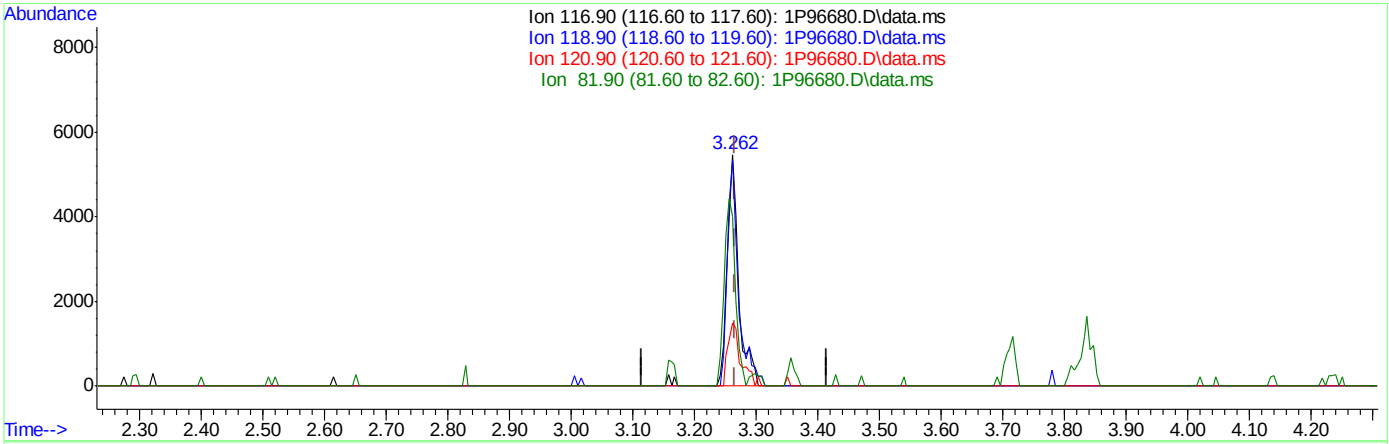
response 5414

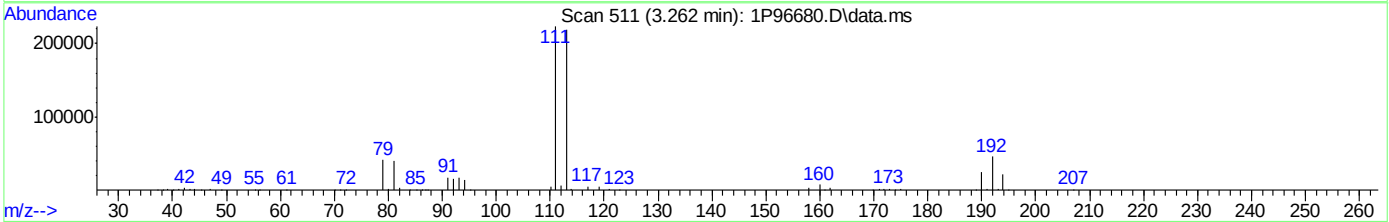
Ion	Exp%	Act%
56.10	100	100
57.00	250.90	246.45
43.00	172.00	205.25#
41.00	198.00	207.08

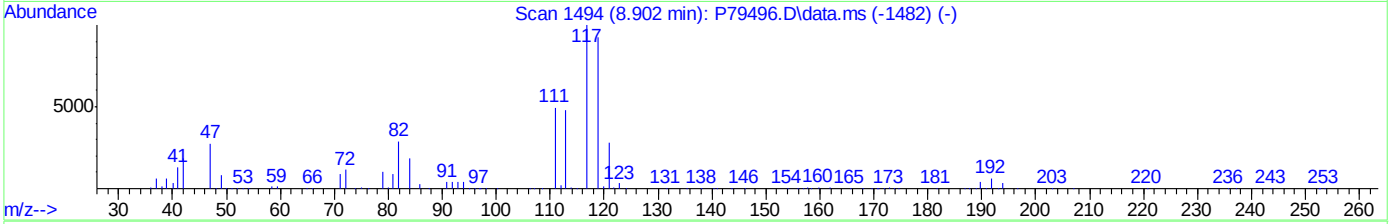
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96680.D
Acq On : 29 Dec 2022 10:38 am
Operator : joannel
Sample : IC3655-1
Misc : MS52806,V1P3655,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 10:58:46 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96680.D\data.ms

(40) Carbon Tetrachloride ( )

3.262min (-0.004) 0.74ug/L

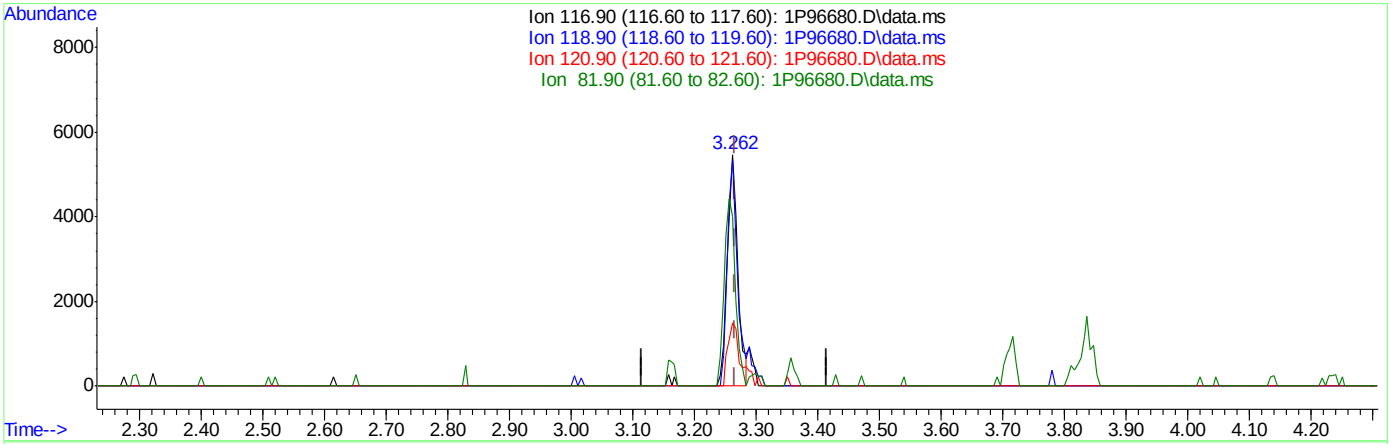
response 7041

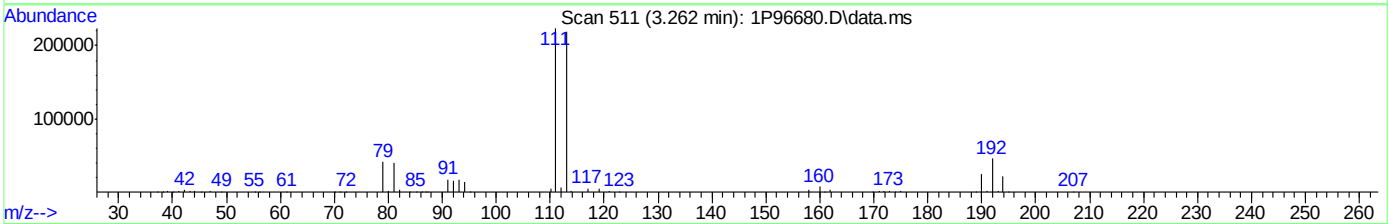
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	97.21
120.90	30.60	27.21
81.90	24.90	73.11#

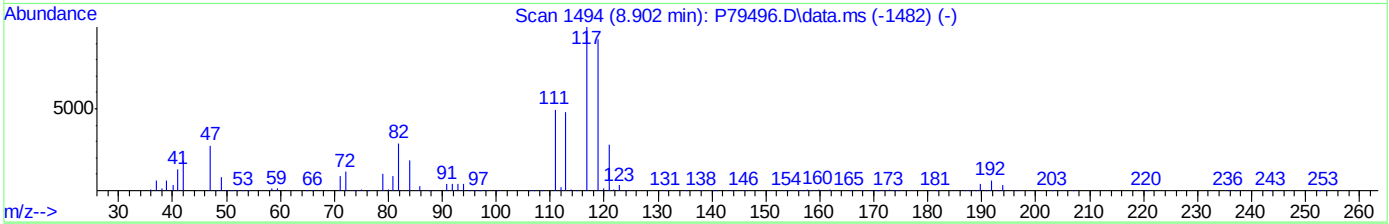
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96680.D
Acq On : 29 Dec 2022 10:38 am
Operator : joannel
Sample : IC3655-1
Misc : MS52806,V1P3655,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 10:58:46 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96680.D\data.ms

(40) Carbon Tetrachloride ( )

3.262min (-0.004) 0.67ug/L m

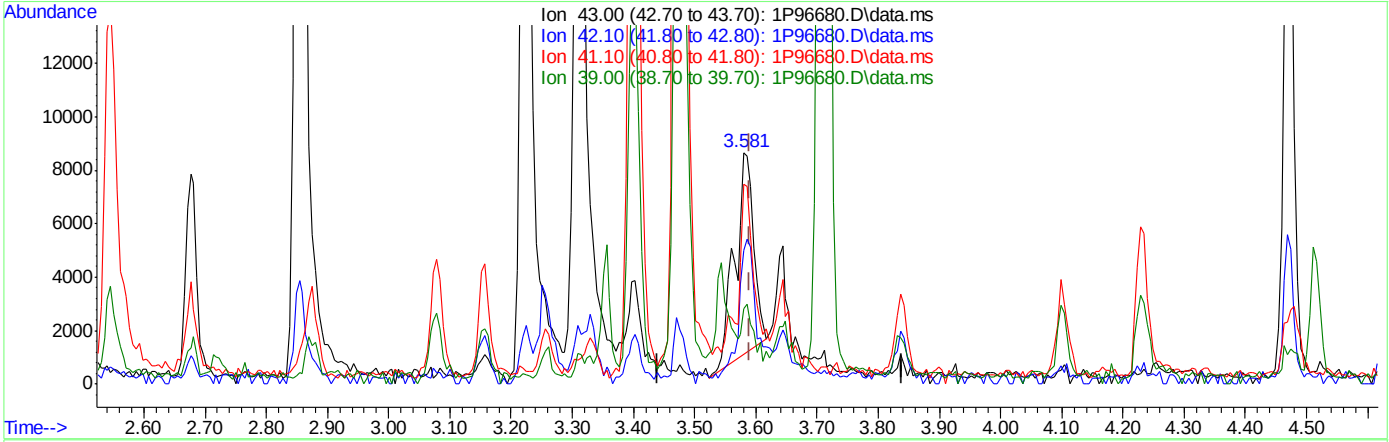
response 6408

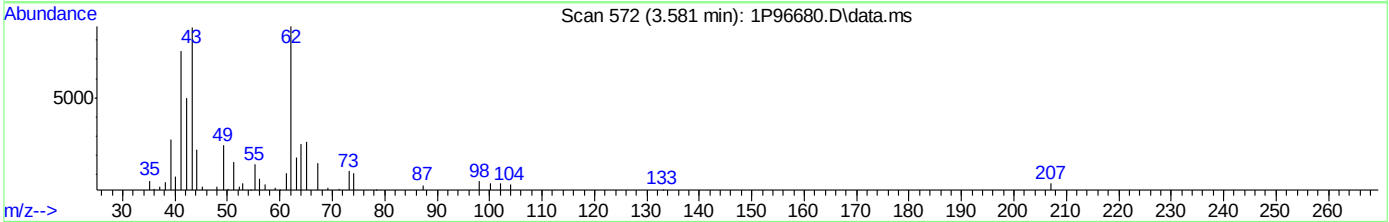
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	97.21
120.90	30.60	27.21
81.90	24.90	73.11#

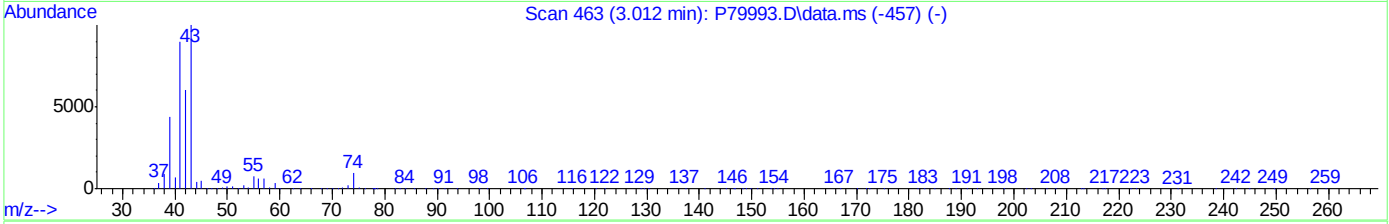
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96680.D
Acq On : 29 Dec 2022 10:38 am
Operator : joannel
Sample : IC3655-1
Misc : MS52806,V1P3655,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 10:58:46 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96680.D\data.ms

(50) Isobutyl alcohol

3.581min (-0.009) 20.57ug/L

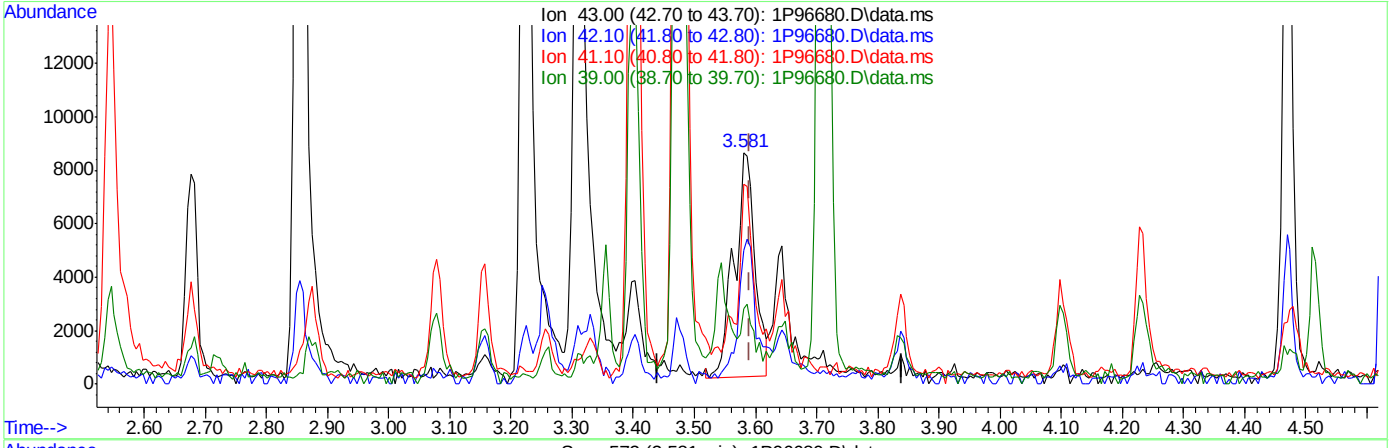
response 15849

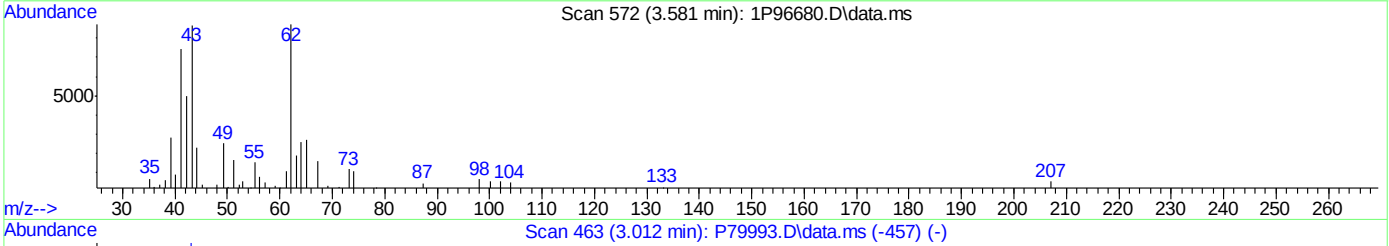
Ion	Exp%	Act%
43.00	100	100
42.10	58.50	56.07
41.10	71.10	71.27
39.00	23.40	19.50

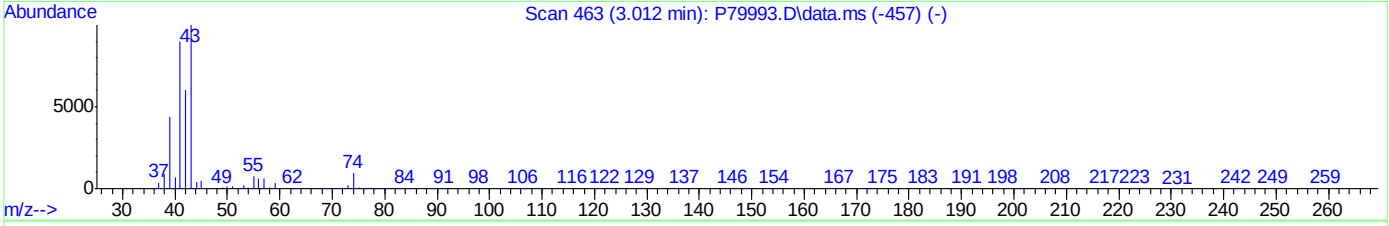
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96680.D
Acq On : 29 Dec 2022 10:38 am
Operator : joannel
Sample : IC3655-1
Misc : MS52806,V1P3655,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 10:58:46 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96680.D\data.ms

(50) Isobutyl alcohol

3.581min (-0.009) 25.63ug/L m

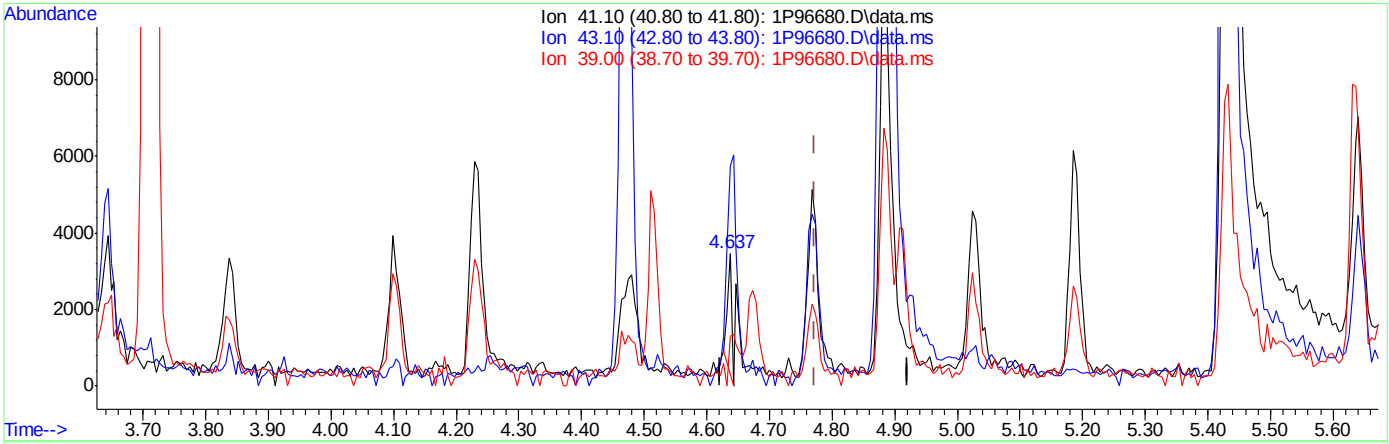
response 19744

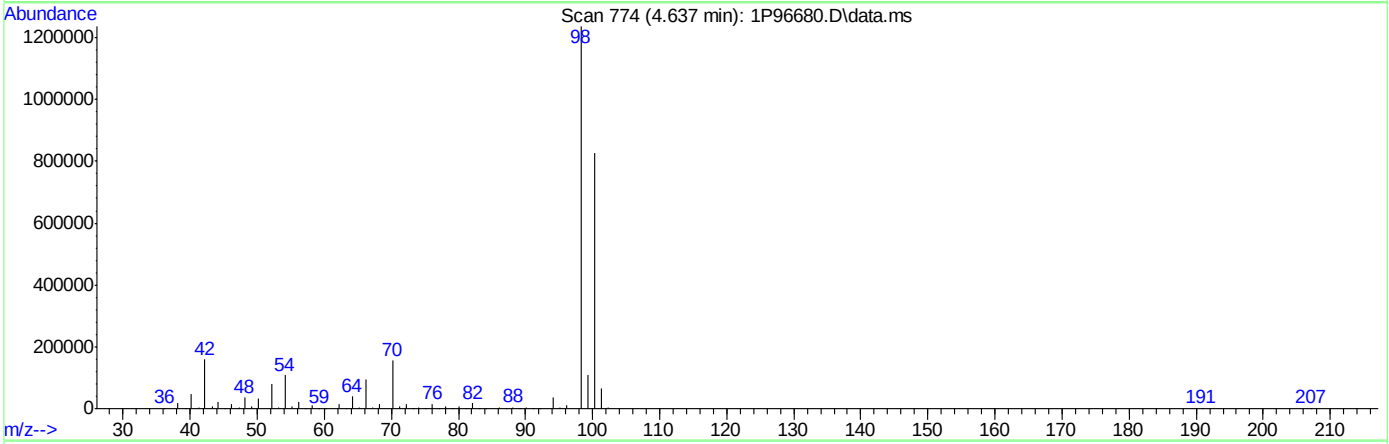
Ion	Exp%	Act%
43.00	100	100
42.10	58.50	57.79
41.10	71.10	86.10
39.00	23.40	32.45

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96680.D
Acq On : 29 Dec 2022 10:38 am
Operator : joannel
Sample : IC3655-1
Misc : MS52806,V1P3655,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 11:03:40 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96680.D\data.ms

(65) 2-Nitropropane

4.637min (-0.135) 0.43ug/L

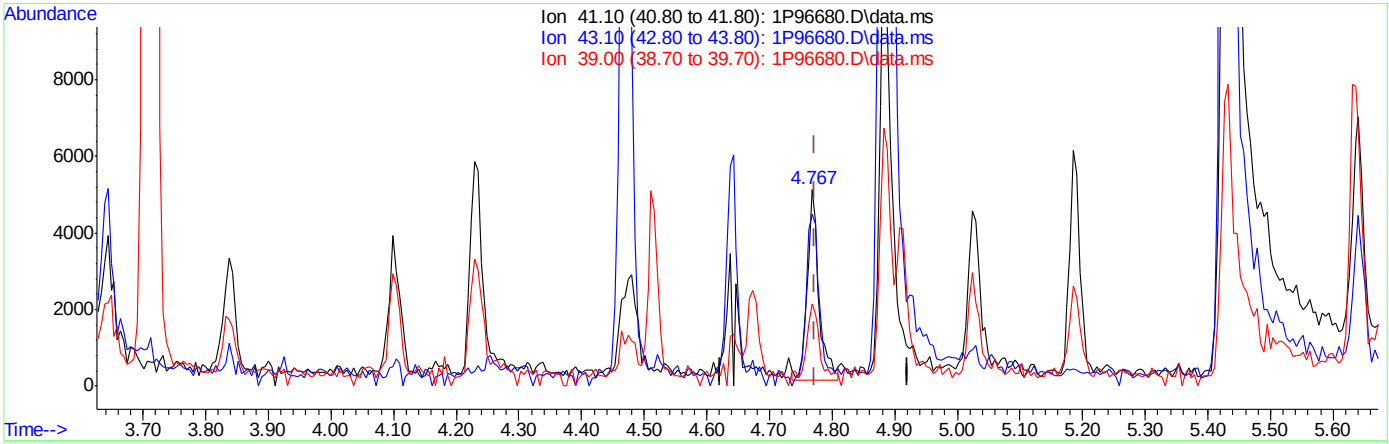
response 1251

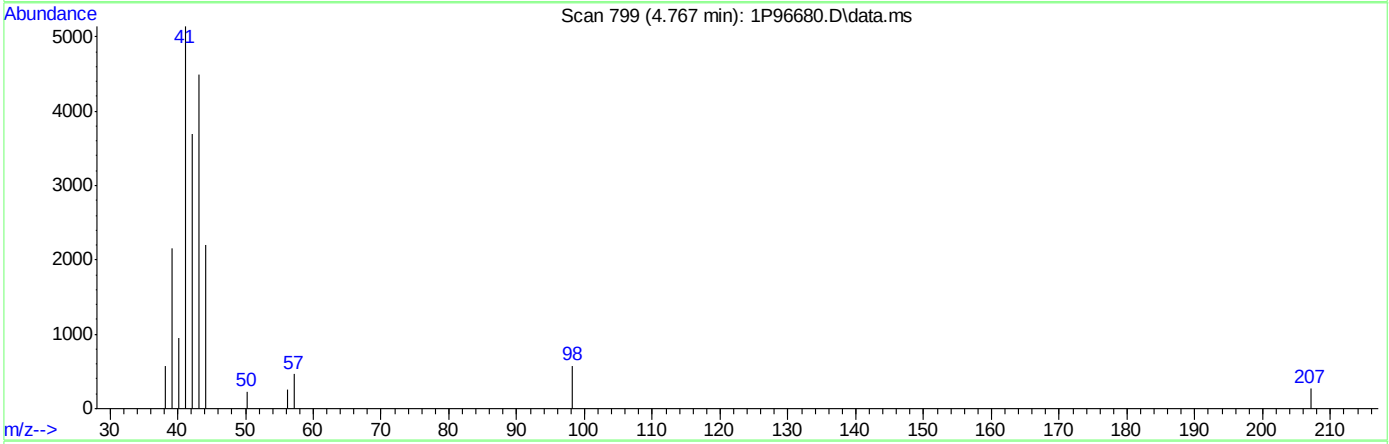
Ion	Exp%	Act%
41.10	100	100
43.10	125.70	128.56
39.00	35.00	20.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96680.D
Acq On : 29 Dec 2022 10:38 am
Operator : joannel
Sample : IC3655-1
Misc : MS52806,V1P3655,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 11:03:40 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96680.D\data.ms

(65) 2-Nitropropane

4.767min (-0.005) 2.27ug/L m

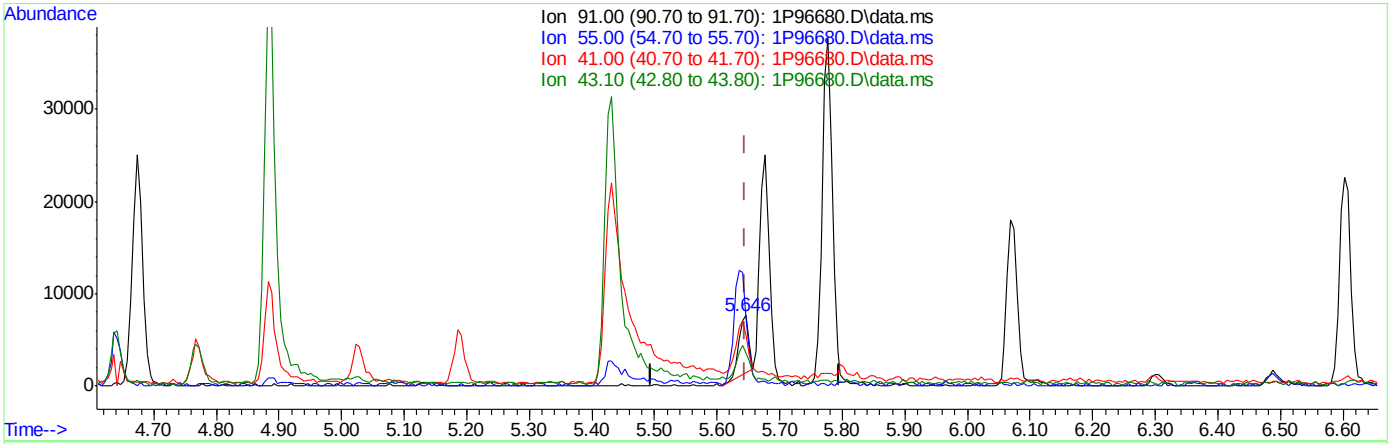
response 6536

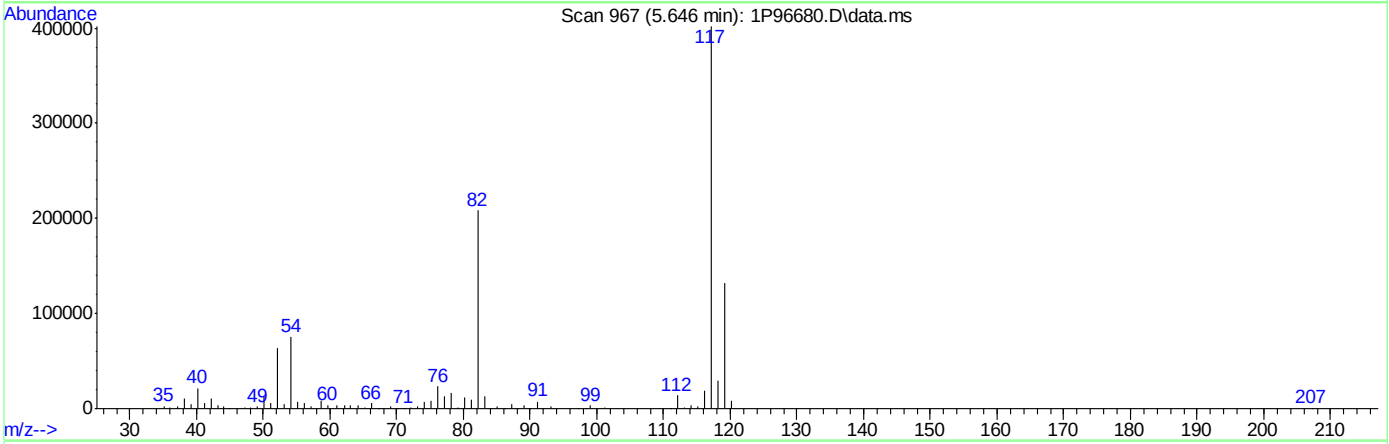
Ion	Exp%	Act%
41.10	100	100
43.10	125.70	87.51#
39.00	35.00	41.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96680.D
Acq On : 29 Dec 2022 10:38 am
Operator : joannel
Sample : IC3655-1
Misc : MS52806,V1P3655,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 11:03:40 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96680.D\data.ms

(76) 1-Chlorohexane

5.646min (+0.000) 0.78ug/L

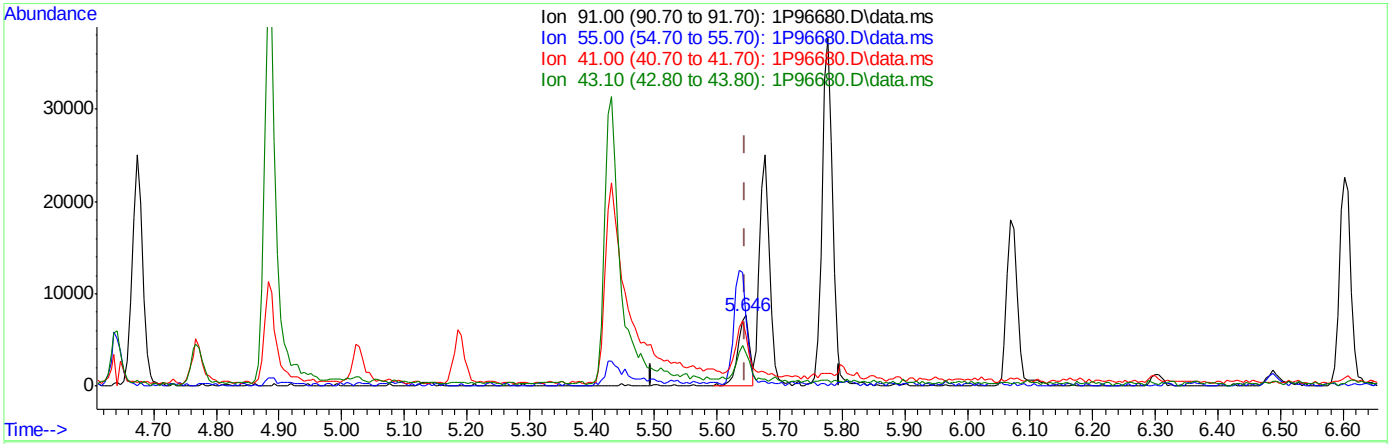
response 6959

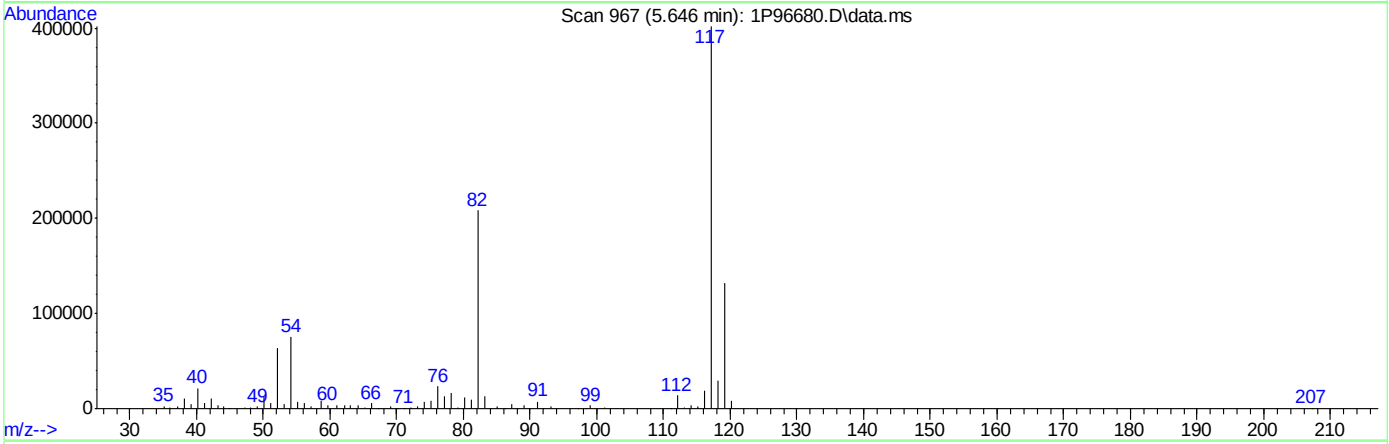
Ion	Exp%	Act%
91.00	100	100
55.00	71.50	92.45#
41.00	56.40	53.79
43.10	47.80	32.54

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96680.D
Acq On : 29 Dec 2022 10:38 am
Operator : joannel
Sample : IC3655-1
Misc : MS52806,V1P3655,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 11:03:40 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96680.D\data.ms

(76) 1-Chlorohexane

5.646min (+0.000) 1.09ug/L m

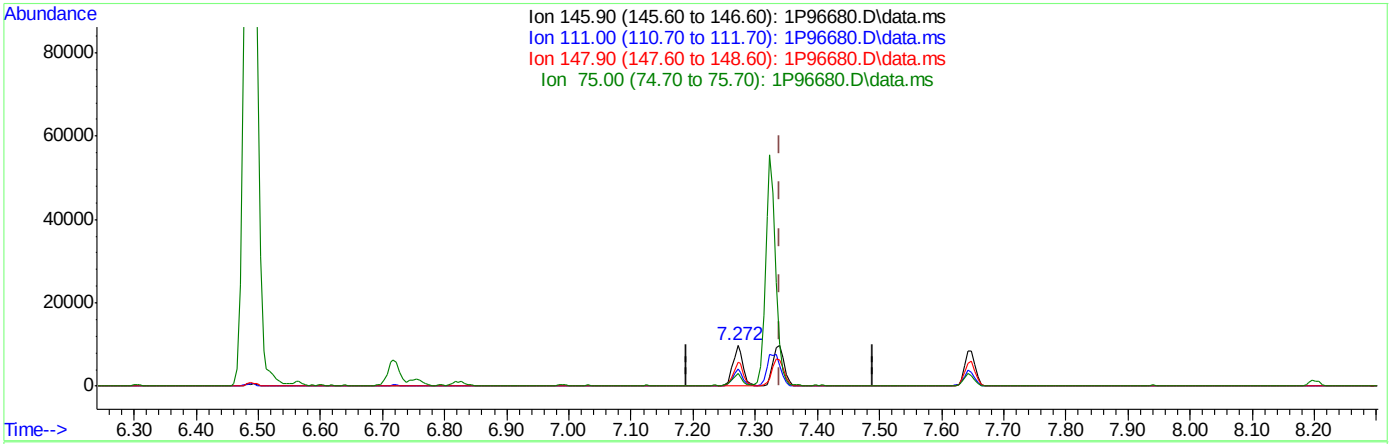
response 9693

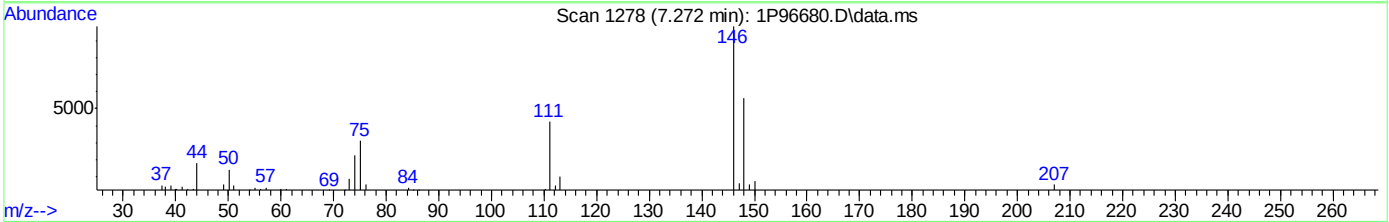
Ion	Exp%	Act%
91.00	100	100
55.00	71.50	95.28#
41.00	56.40	72.41
43.10	47.80	45.88

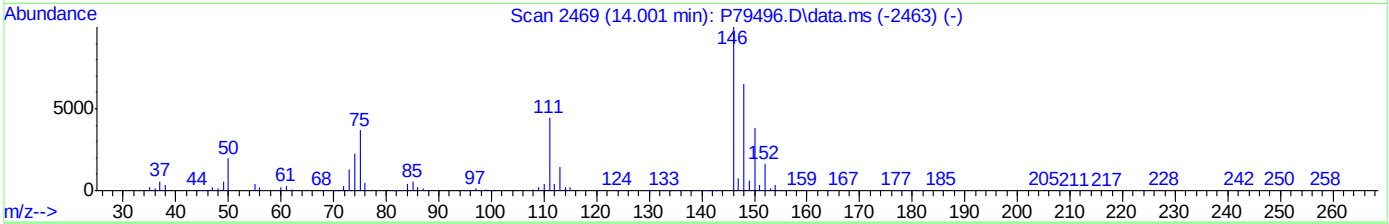
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96680.D
Acq On : 29 Dec 2022 10:38 am
Operator : joannel
Sample : IC3655-1
Misc : MS52806,V1P3655,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 11:03:40 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96680.D\data.ms

(105) 1,4-Dichlorobenzene

7.272min (-0.068) 0.99ug/L

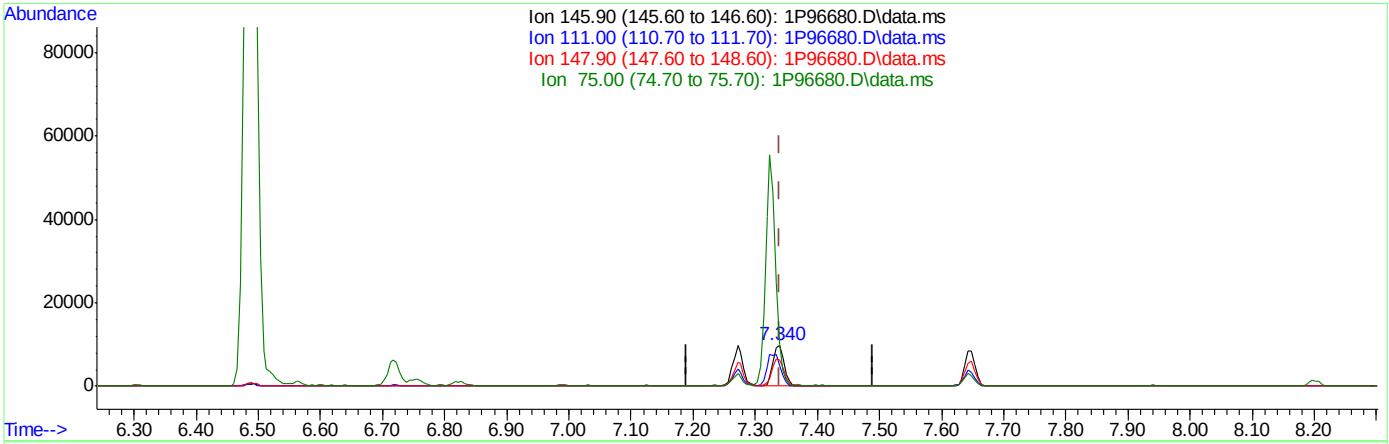
response 11508

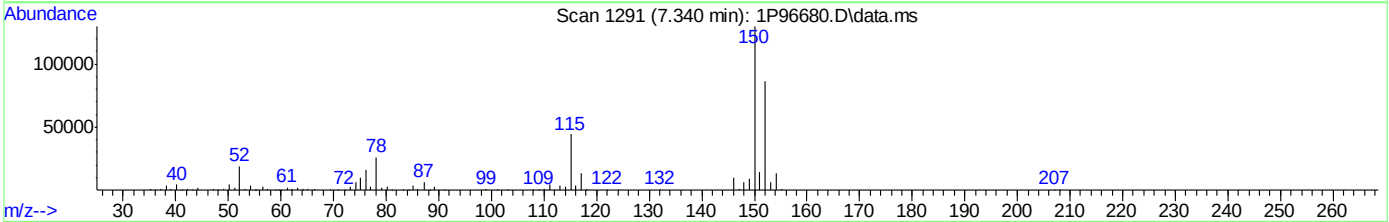
Ion	Exp%	Act%
145.90	100	100
111.00	39.70	42.85
147.90	62.80	57.11
75.00	35.50	29.40

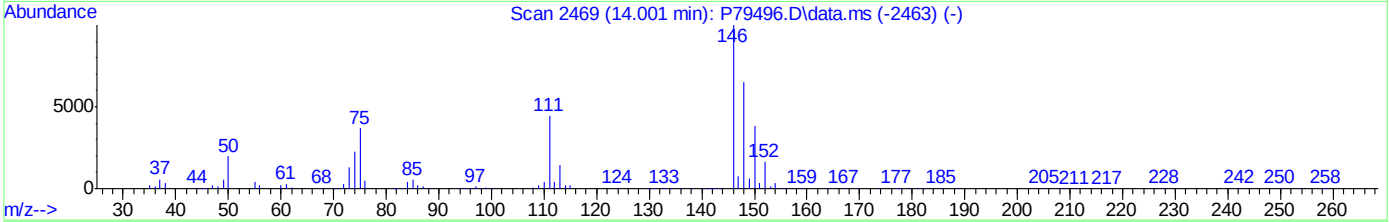
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96680.D
Acq On : 29 Dec 2022 10:38 am
Operator : joannel
Sample : IC3655-1
Misc : MS52806,V1P3655,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 11:03:40 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96680.D\data.ms

(105) 1,4-Dichlorobenzene

7.340min (-0.000) 1.03ug/L m

response 11921

Ion	Exp%	Act%
145.90	100	100
111.00	39.70	50.03
147.90	62.80	63.21
75.00	35.50	101.82#

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/03/23 11:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96682.D
Acq On : 29 Dec 2022 11:32 am
Operator : joannel
Sample : IC3655-2
Misc : MS52806,V1P3655,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 14:26:13 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.716	96	1722409	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.634	117	1135823	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.328	152	502005	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.256	113	359489	46.39	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 92.78%			
49) 1,2-Dichloroethane-d4	3.543	65	501451	47.86	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 95.72%			
63) Toluene-d8	4.641	98	1624337	49.65	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.30%			
86) 4-Bromofluorobenzene	6.487	174	389936	47.87	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.123	85	30767	3.80	ug/L	100
3) Chloromethane	1.248	50	29094	3.76	ug/L	100
4) 1,3-butadiene	1.316	39	23832	4.19	ug/L	94
5) Vinyl Chloride	1.300	62	29242	4.41	ug/L	99
6) Bromomethane	1.504	94	20866	8.59	ug/L	99
7) Chloroethane	1.577	64	13944	5.54	ug/L	84
8) Trichlorofluoromethane	1.677	101	48179	5.22	ug/L	98
9) Ethyl Ether	1.870	59	30722	6.07	ug/L	91
10) Ethanol	1.943	45	20890	114.92	ug/L	96
11) 1,2-Dichlorotrifluoroe...	1.970	67	33353	4.24	ug/L	98
12) 1,1-Dichloroethene	1.980	61	41500	4.18	ug/L	98
13) Freon 113	2.011	101	25085	3.96	ug/L	98
14) Carbon Disulfide	1.996	76	73661	4.28	ug/L	93
15) Iodomethane	2.058	142	25774	5.99	ug/L	96
16) Acrolein	2.147	56	46226	21.47	ug/L	95
17) Allyl chloride	2.241	41	45588	4.52	ug/L	89
18) Methylene Chloride	2.294	49	53112	6.02	ug/L	93
19) Acetone	2.309	43	98203	23.00	ug/L	96
20) Methyl acetate	2.393	43	198943	22.42	ug/L	98
21) trans-1,2-Dichloroethene	2.398	61	40820	4.15	ug/L	95
22) Hexane	2.466	56	23568m	4.40	ug/L	
23) Methyl Tert Butyl Ether	2.466	73	93507	4.10	ug/L	82
24) Tert Butyl Alcohol	2.498	59	91369	42.50	ug/L	95
25) Acetonitrile	2.545	41	92437m	53.84	ug/L	
26) Di-isopropyl ether	2.681	45	93922	4.45	ug/L	96
27) Chloroprene	2.722	53	160719	5.21	ug/L	98
28) 1,1-Dichloroethane	2.722	63	51899	4.15	ug/L	95
29) Acrylonitrile	2.722	52	112596	28.38	ug/L	94
30) ETBE	2.874	59	92891	4.28	ug/L	98
31) Vinyl acetate	2.853	43	403701	26.94	ug/L	97
32) cis-1,2-Dichloroethene	3.015	96	30724	4.17	ug/L	92
33) 2,2-Dichloropropane	3.078	77	45033	3.86	ug/L	97
34) Bromochloromethane	3.120	128	13003	4.32	ug/L	92
35) Cyclohexane	3.156	56	49050	4.64	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96682.D
Acq On : 29 Dec 2022 11:32 am
Operator : joannel
Sample : IC3655-2
Misc : MS52806,V1P3655,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 14:26:13 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.162	83	54274	4.18	ug/L		97
37) Ethyl acetate	3.224	43	301881	27.27	ug/L		99
38) Tetrahydrofuran	3.256	42	19924	4.50	ug/L		99
40) Carbon Tetrachloride	3.261	117	33628m	3.48	ug/L		
41) 1,1,1-Trichloroethane	3.287	97	47142	4.08	ug/L		93
42) 2-Butanone	3.308	43	180723	23.59	ug/L		98
43) 1,1-Dichloropropene	3.360	75	45223	4.57	ug/L		95
44) tert-Butyl formate	3.402	59	77292	12.52	ug/L	#	68
45) Propionitrile	3.454	54	104706	50.09	ug/L		99
46) Methacrylonitrile	3.475	41	347421	48.75	ug/L		98
47) Benzene	3.486	78	137397	4.88	ug/L		94
48) TAME	3.559	73	89355	4.24	ug/L		93
50) Isobutyl alcohol	3.585	43	101726m	130.46	ug/L		
51) 1,2-Dichloroethane	3.580	62	44335	4.32	ug/L		99
52) Tert Amyl Alcohol	3.643	59	71384	42.04	ug/L		89
53) Trichloroethene	3.820	95	33867	4.51	ug/L		91
54) Methylcyclohexane	3.841	83	47573	4.57	ug/L		97
55) Dibromomethane	4.045	93	18231	4.41	ug/L		94
56) 1,2-Dichloropropane	4.103	63	30278	4.30	ug/L		96
57) Bromodichloromethane	4.139	83	33006	3.76	ug/L		98
58) Methyl methacrylate	4.228	41	37486	4.88	ug/L		96
59) 1,4-Dioxane	4.254	88	16805	105.30	ug/L		98
60) 2-Chloroethyl vinyl ether	4.474	63	113592	22.32	ug/L		98
61) cis-1,3-Dichloropropene	4.516	75	44365	4.06	ug/L		97
64) Toluene	4.672	91	142228	4.76	ug/L		99
65) 2-Nitropropane	4.767	41	25319	8.71	ug/L		87
66) 4-Methyl-2-pentanone	4.882	43	295246	24.76	ug/L		98
67) trans-1,3-Dichloropropene	4.913	75	39309	4.16	ug/L	#	78
68) Tetrachloroethene	4.929	166	31082	4.57	ug/L		93
69) Ethyl methacrylate	5.023	69	50234	5.14	ug/L		92
70) 1,1,2-Trichloroethane	5.012	83	22770	4.55	ug/L		95
71) Dibromochloromethane	5.138	129	18710	3.23	ug/L		90
72) 1,3-Dichloropropane	5.190	76	50316	4.51	ug/L		98
73) 1,2-Dibromoethane	5.289	107	27141	4.48	ug/L		98
74) 3,3-dimethyl-1-butanol	5.425	57	311229	179.14	ug/L		97
75) 2-hexanone	5.425	43	276231	24.40	ug/L	#	67
76) 1-Chlorohexane	5.645	91	41651m	4.64	ug/L		
77) Ethylbenzene	5.676	91	144606	4.64	ug/L		95
78) Chlorobenzene	5.650	112	79935	4.79	ug/L		99
79) 1,1,1,2-Tetrachloroethane	5.692	131	21942	3.68	ug/L		96
80) m,p-Xylene	5.776	91	224387	9.54	ug/L		97
81) o-Xylene	6.074	91	110215	4.81	ug/L		92
82) Styrene	6.105	104	82699	4.89	ug/L		96
83) Bromoform	6.110	173	9203	2.75	ug/L		91
84) Isopropylbenzene	6.304	105	129564	4.91	ug/L		98
87) cis-1,4-Dichloro-2-butene	6.518	53	15364	4.65	ug/L	#	70
88) n-Propylbenzene	6.602	91	147676	4.77	ug/L		98
89) Bromobenzene	6.565	156	29699	4.57	ug/L		90
90) 1,1,2,2-Tetrachloroethane	6.622	83	39227	4.43	ug/L		93
91) 1,3,5-Trimethylbenzene	6.753	105	103593	5.03	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96682.D
Acq On : 29 Dec 2022 11:32 am
Operator : joannel
Sample : IC3655-2
Misc : MS52806,V1P3655,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 14:26:13 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

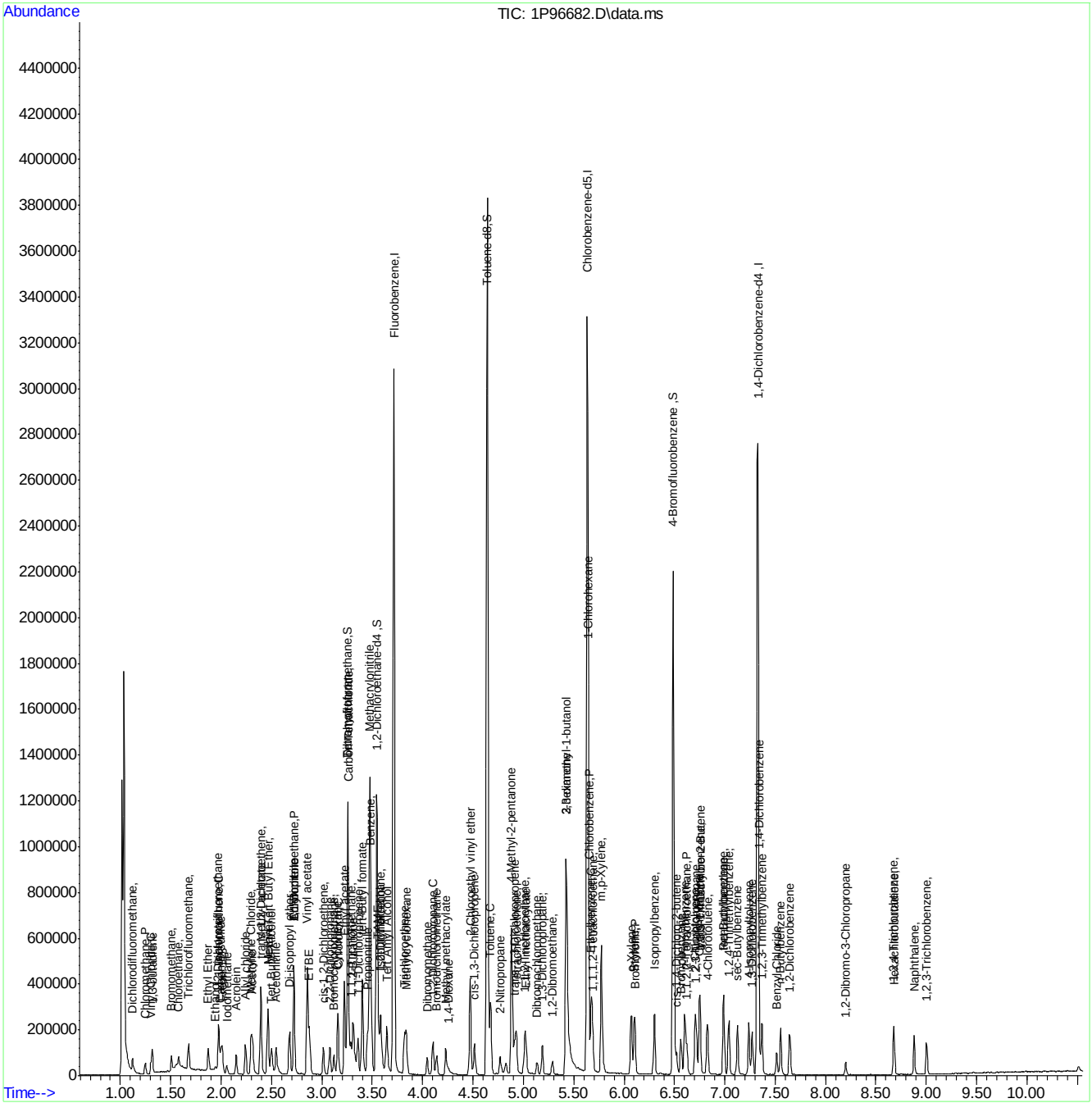
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.706	91	87617	4.71	ug/L		96
93)	trans-1,4-Dichloro-2-B...	6.753	53	14607	4.57	ug/L	#	81
94)	1,2,3-Trichloropropane	6.717	110	14874	4.68	ug/L		93
95)	Cyclohexanone	6.748	55	15761	31.27	ug/L		96
96)	4-Chlorotoluene	6.826	91	91717	4.67	ug/L		96
97)	tert-Butylbenzene	6.988	91	57007	4.92	ug/L		91
99)	1,2,4-Trimethylbenzene	7.041	105	97049	4.99	ug/L		99
100)	Pentachloroethane	6.988	167	11825	3.41	ug/L	#	68
101)	sec-Butylbenzene	7.124	105	111845	5.00	ug/L		99
102)	4-Isopropyltoluene	7.239	119	93836	4.84	ug/L		97
103)	1,3-Dichlorobenzene	7.271	146	53219	4.65	ug/L		96
104)	1,2,3-Trimethylbenzene	7.365	105	95368	4.81	ug/L		98
105)	1,4-Dichlorobenzene	7.339	146	56121	4.73	ug/L		93
106)	n-Butylbenzene	7.553	92	45855	4.76	ug/L		98
107)	Benzyl Chloride	7.516	126	10457	3.36	ug/L	#	82
108)	1,2-Dichlorobenzene	7.647	146	50293	4.67	ug/L		95
109)	1,2-Dibromo-3-Chloropr...	8.201	75	8439	3.55	ug/L	#	85
110)	Hexachlorobutadiene	8.682	225	10124	3.74	ug/L		94
111)	1,2,4-Trichlorobenzene	8.677	180	25246	4.62	ug/L		94
112)	Naphthalene	8.881	128	88522	4.93	ug/L		99
113)	1,2,3-Trichlorobenzene	9.006	180	24020	4.16	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96682.D
Acq On : 29 Dec 2022 11:32 am
Operator : joannel
Sample : IC3655-2
Misc : MS52806,V1P3655,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 14:26:13 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V1P3655-IC3655
Lab FileID: 1P96682.D
Injection Time: 12/29/22 11:32

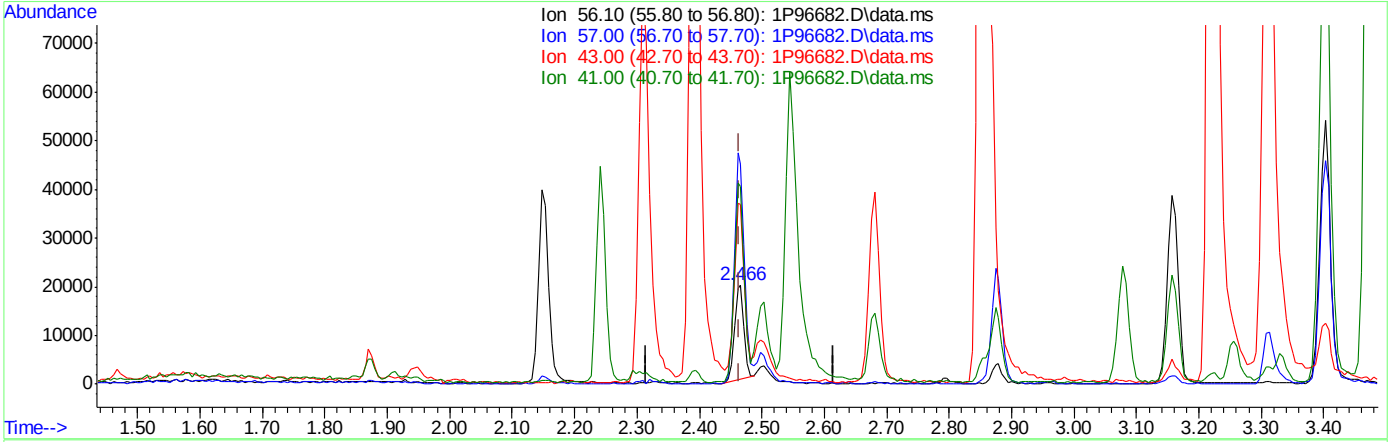
Method: SW846 8260D
Analyst approved: 12/31/22 09:29 Adelard Lefebvre
Supervisor approved: 01/03/23 11:45 Karen Watson

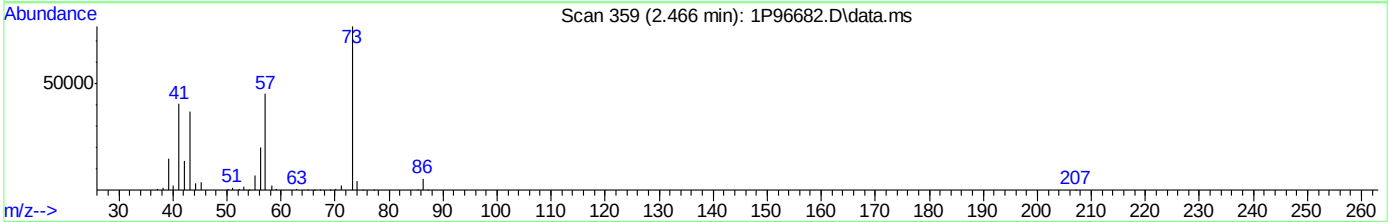
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		2.47	Overlapping peak
Acetonitrile	75-05-8		2.54	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Split peak
1-Chlorohexane	544-10-5		5.64	Poor instrument integration

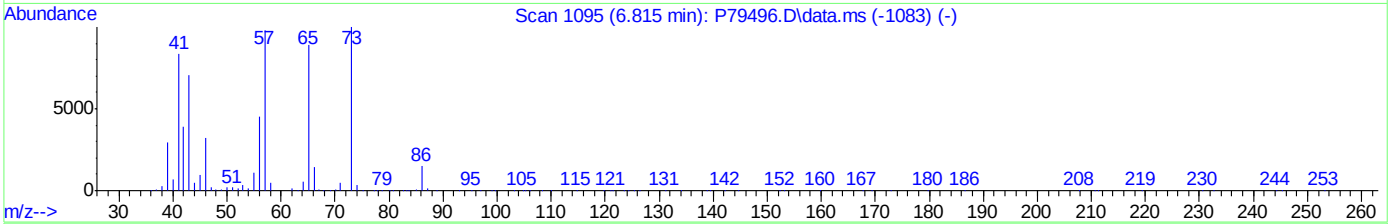
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96682.D
Acq On : 29 Dec 2022 11:32 am
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Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
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Response via : Initial Calibration







TIC: 1P96682.D\data.ms

(22) Hexane

2.466min (+0.001) 4.01ug/L

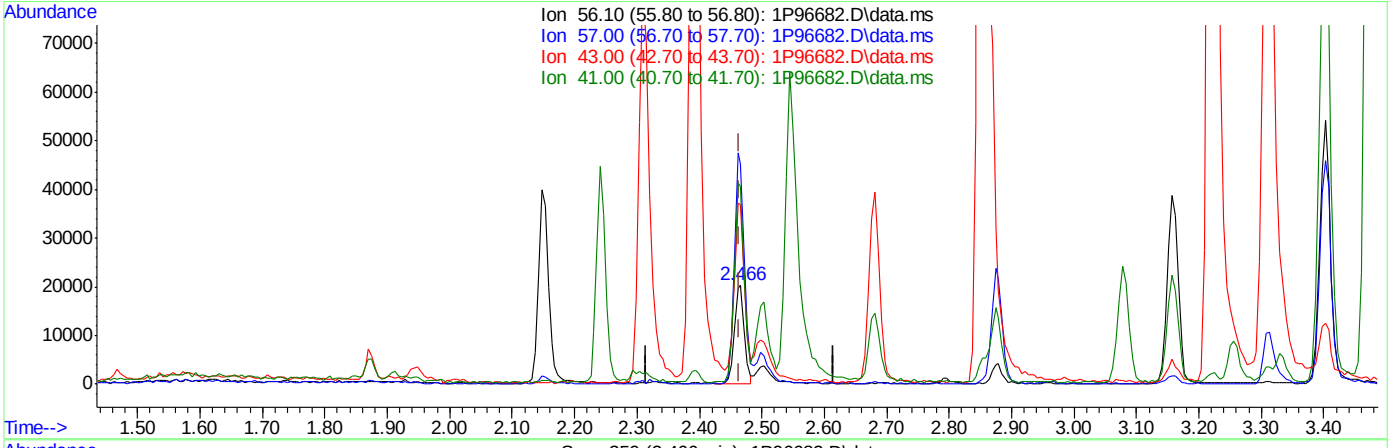
response 21460

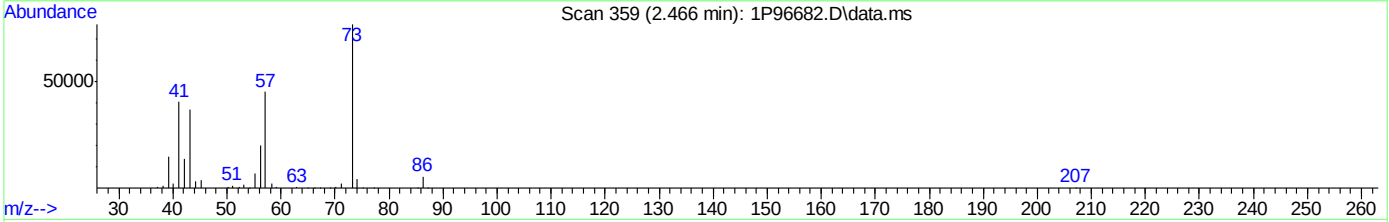
Ion	Exp%	Act%
56.10	100	100
57.00	250.90	222.41#
43.00	172.00	164.86
41.00	198.00	196.89

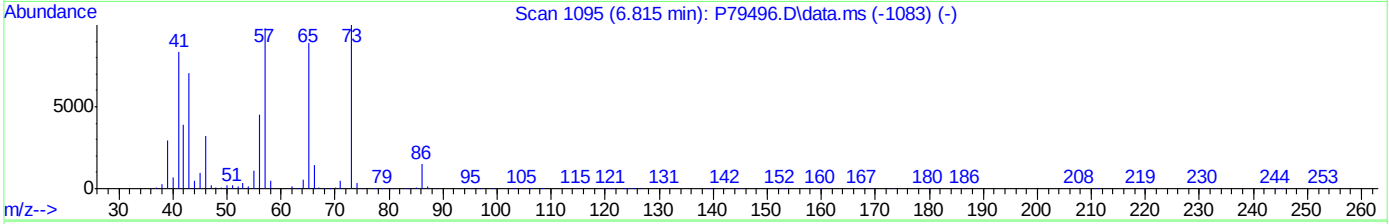
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96682.D
Acq On : 29 Dec 2022 11:32 am
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Misc : MS52806,V1P3655,,,,,
ALS Vial : 4 Sample Multiplier: 1

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Quant Title : SW-846 Method 5035A/8260B
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Response via : Initial Calibration







TIC: 1P96682.D\data.ms

(22) Hexane

2.466min (+0.001) 4.40ug/L m

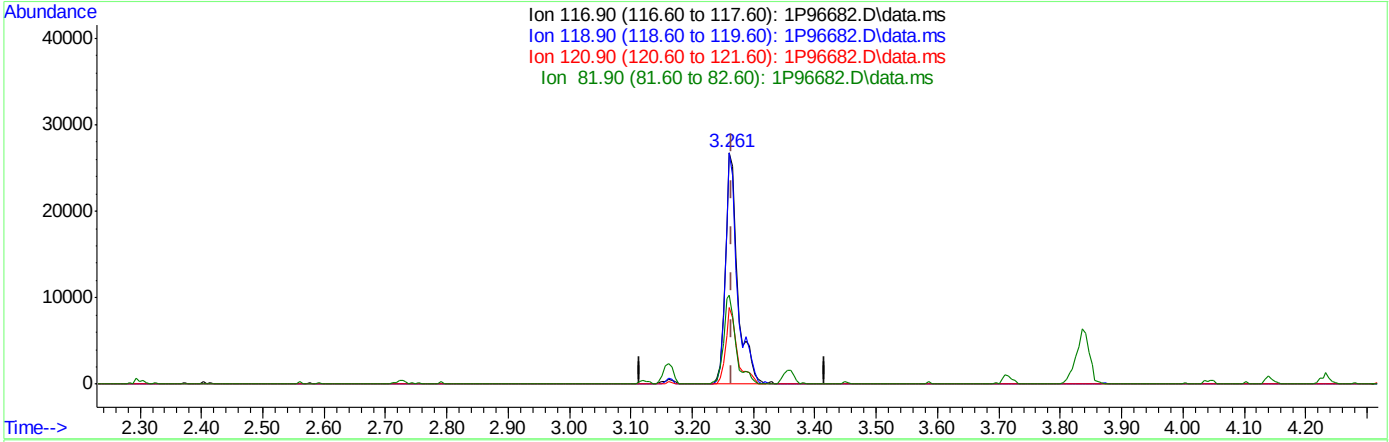
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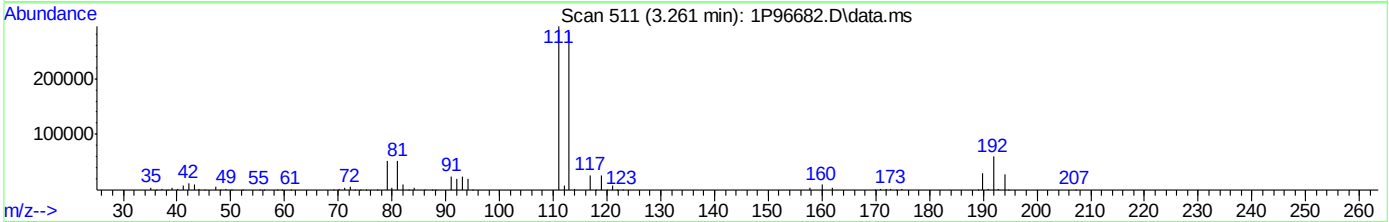
Ion	Exp%	Act%
56.10	100	100
57.00	250.90	222.41#
43.00	172.00	181.99
41.00	198.00	199.10

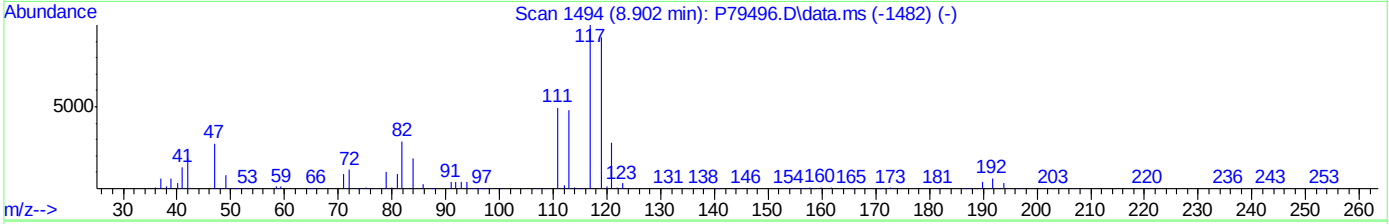
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96682.D
Acq On : 29 Dec 2022 11:32 am
Operator : joannel
Sample : IC3655-2
Misc : MS52806,V1P3655,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 13:13:20 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96682.D\data.ms

(40) Carbon Tetrachloride ( )

3.261min (-0.005) 3.93ug/L

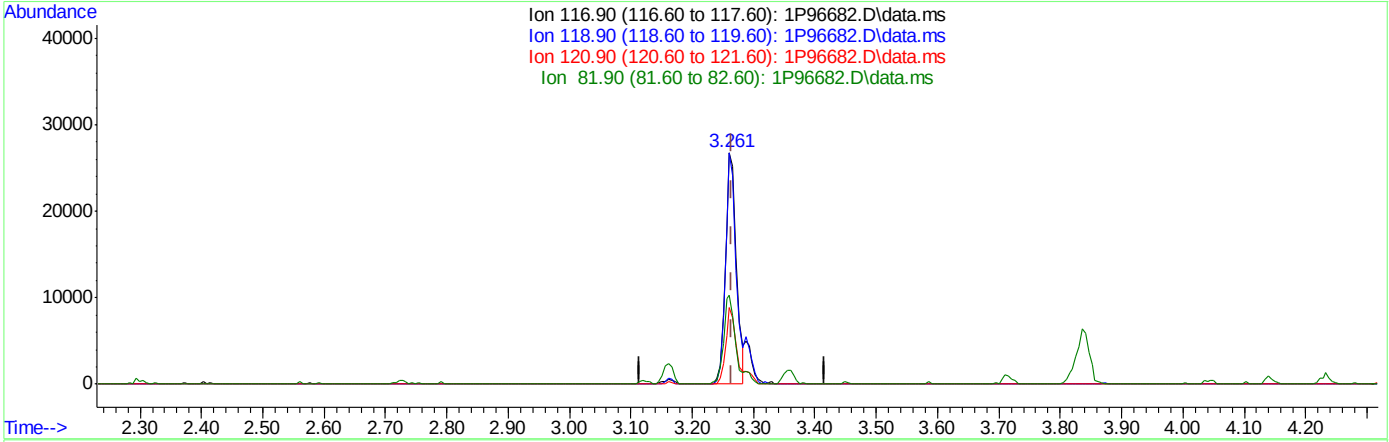
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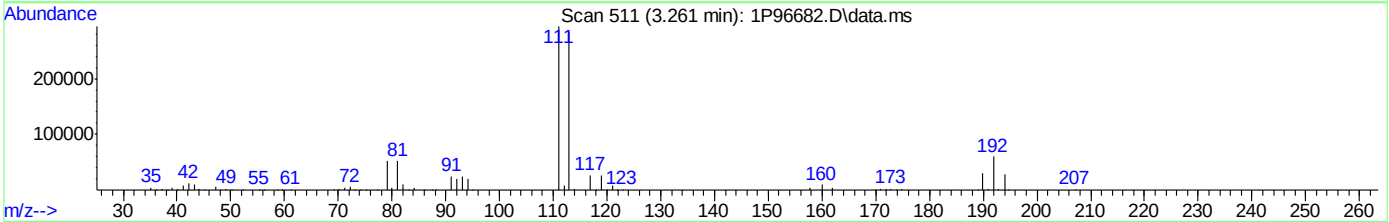
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	99.91
120.90	30.60	33.25
81.90	24.90	38.60

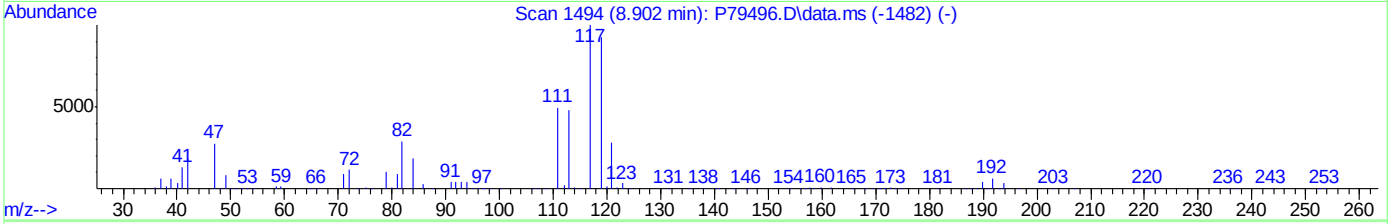
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96682.D
Acq On : 29 Dec 2022 11:32 am
Operator : joannel
Sample : IC3655-2
Misc : MS52806,V1P3655,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 13:13:20 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96682.D\data.ms

(40) Carbon Tetrachloride ( )

3.261min (-0.005) 3.48ug/L m

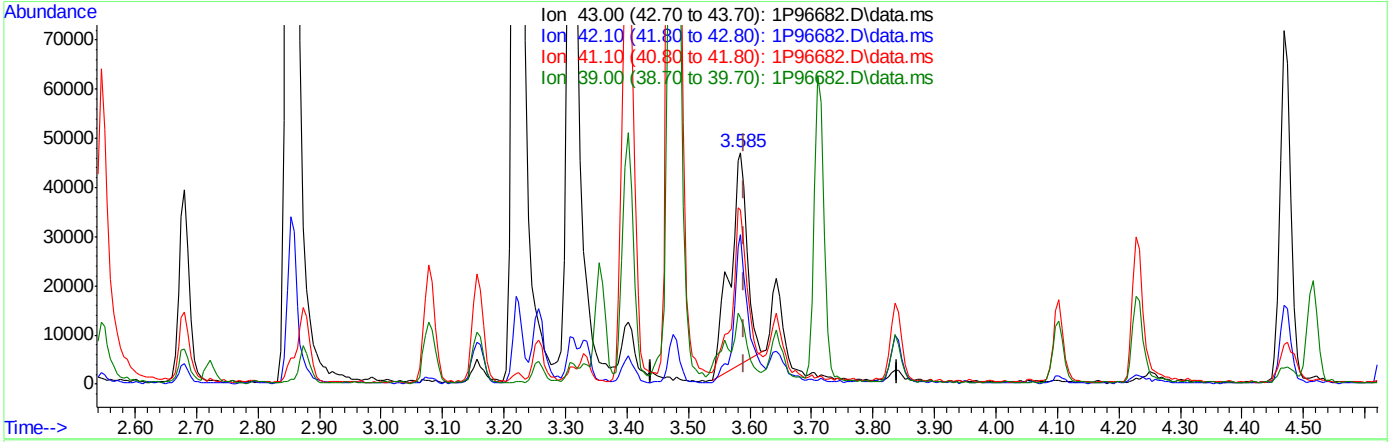
response 33628

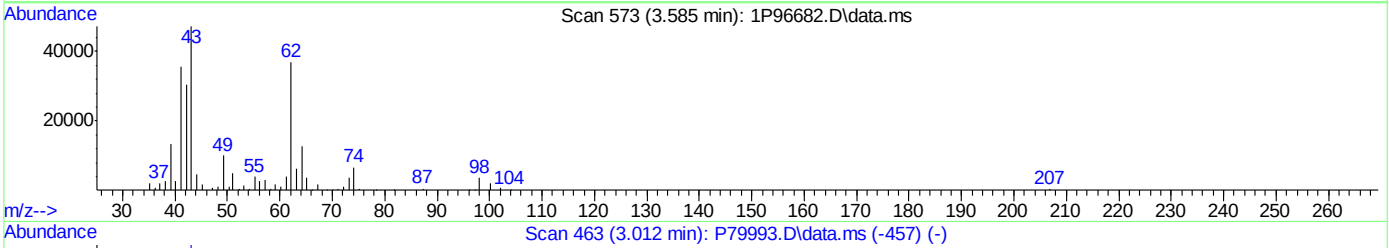
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	99.91
120.90	30.60	33.25
81.90	24.90	38.60

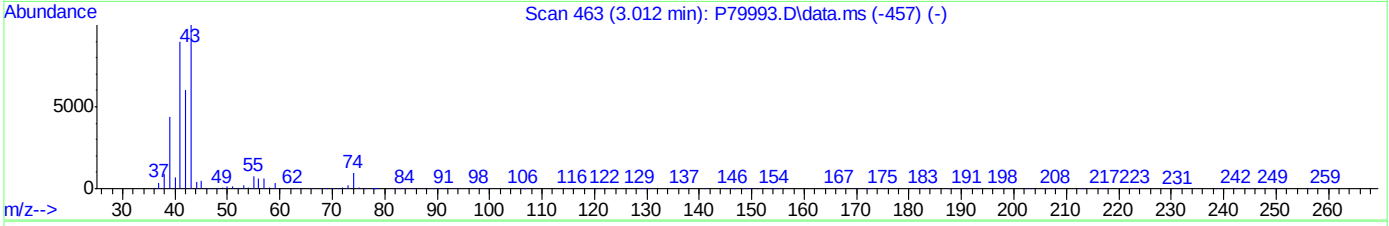
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96682.D
Acq On : 29 Dec 2022 11:32 am
Operator : joannel
Sample : IC3655-2
Misc : MS52806,V1P3655,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 13:13:20 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96682.D\data.ms

(50) Isobutyl alcohol

3.585min (-0.005) 109.58ug/L

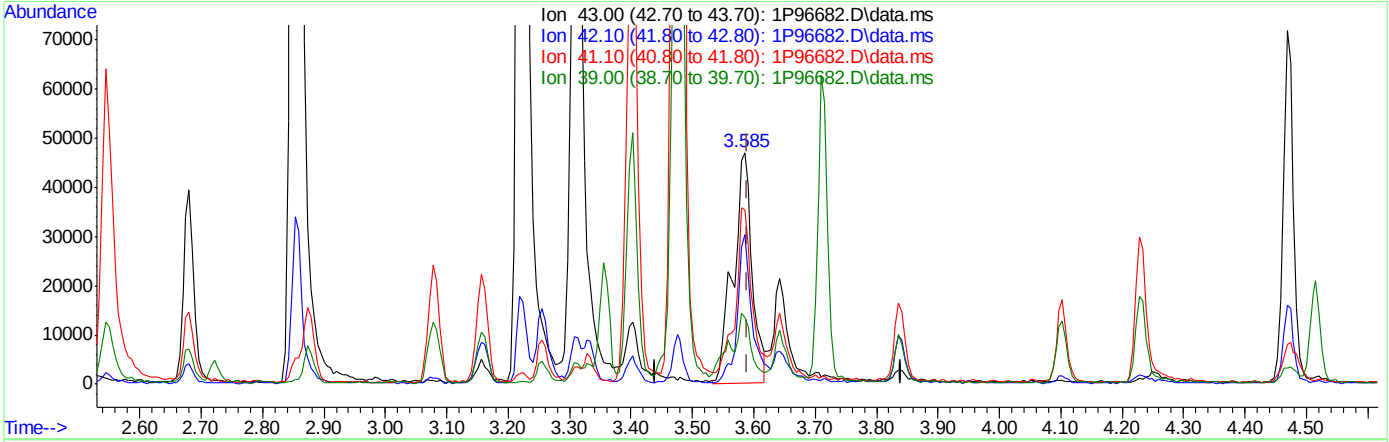
response 85439

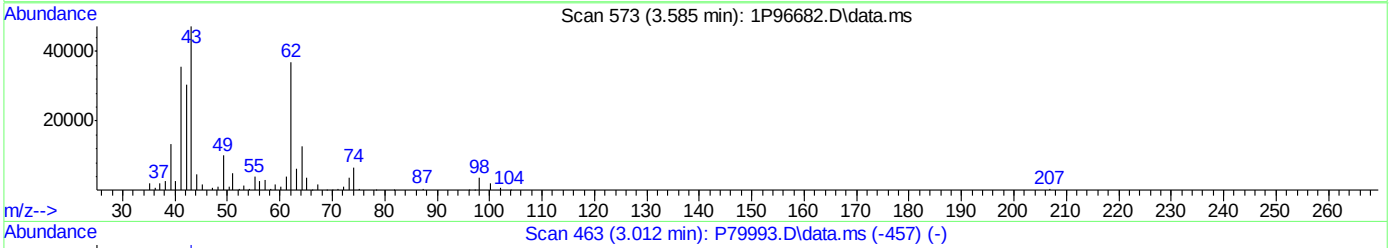
Ion	Exp%	Act%
43.00	100	100
42.10	58.50	64.64
41.10	71.10	71.52
39.00	23.40	23.45

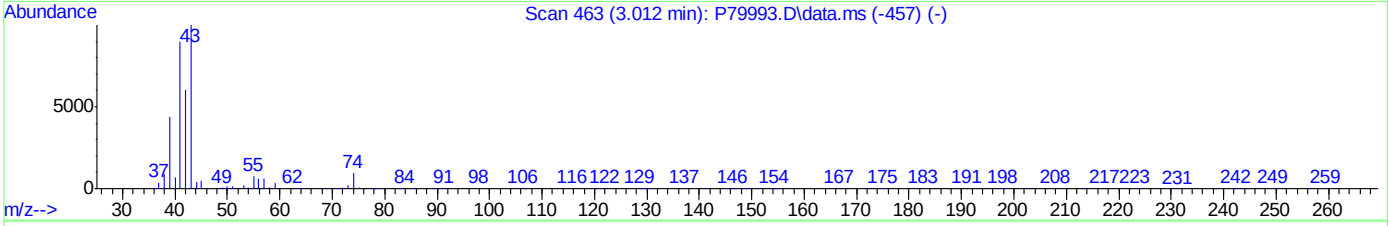
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96682.D
Acq On : 29 Dec 2022 11:32 am
Operator : joannel
Sample : IC3655-2
Misc : MS52806,V1P3655,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 13:13:20 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96682.D\data.ms

(50) Isobutyl alcohol

3.585min (-0.005) 130.46ug/L m

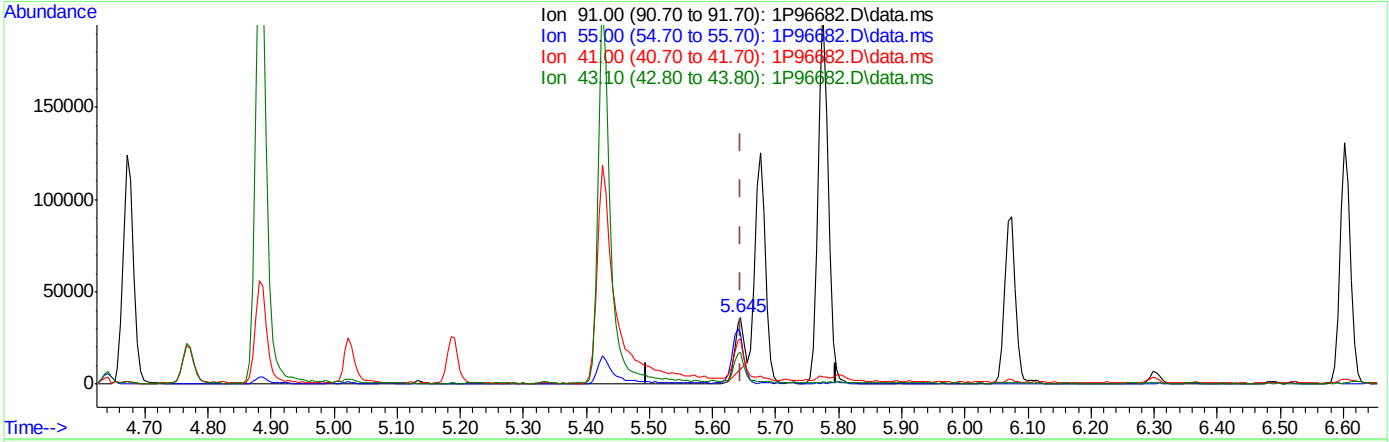
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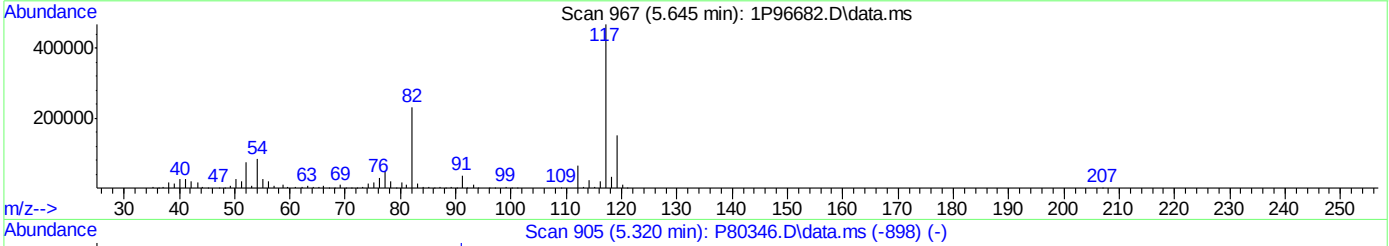
Ion	Exp%	Act%
43.00	100	100
42.10	58.50	64.35
41.10	71.10	75.33
39.00	23.40	28.65

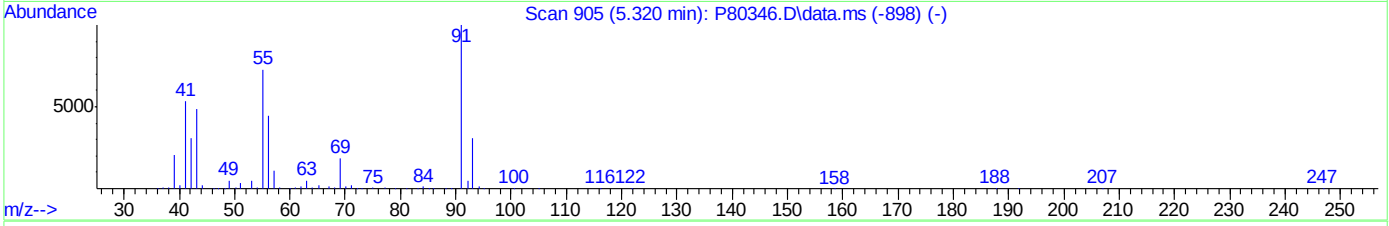
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96682.D
Acq On : 29 Dec 2022 11:32 am
Operator : joannel
Sample : IC3655-2
Misc : MS52806,V1P3655,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 13:13:20 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96682.D\data.ms

(76) 1-Chlorohexane

5.645min (-0.001) 3.19ug/L

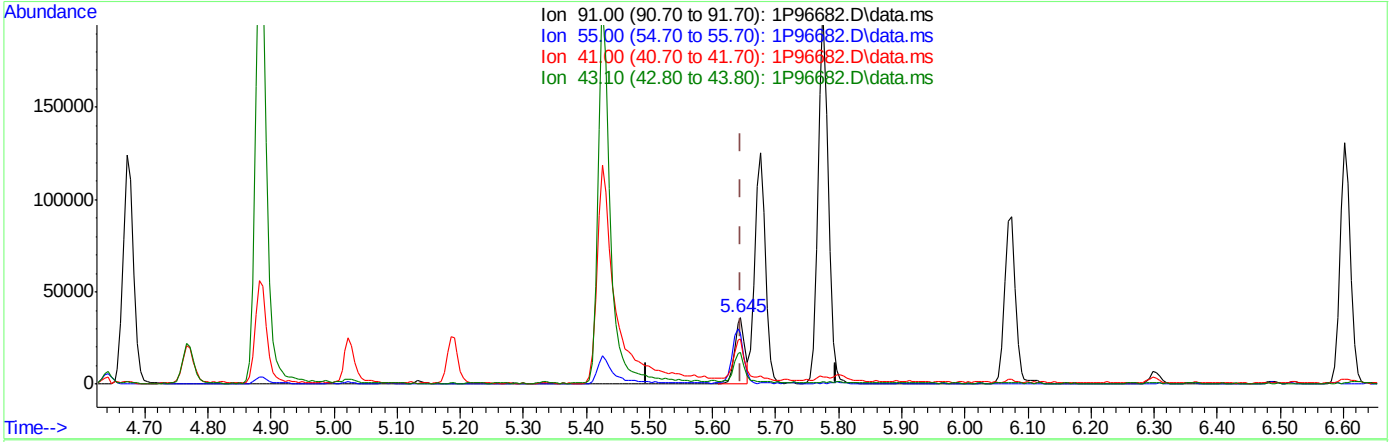
response 28674

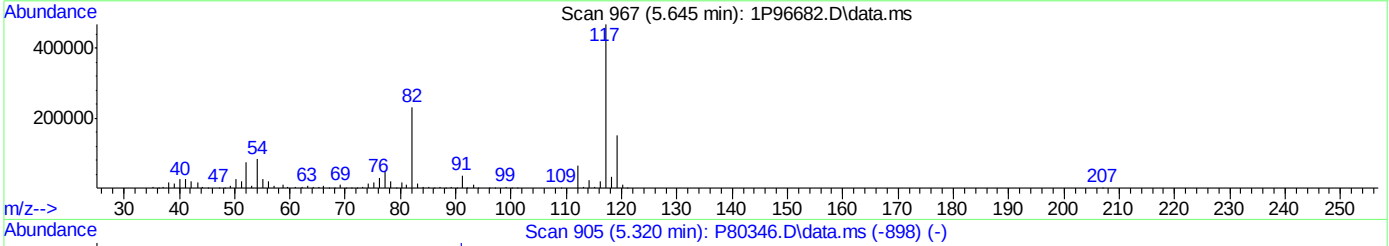
Ion	Exp%	Act%
91.00	100	100
55.00	71.50	64.77
41.00	56.40	56.43
43.10	47.80	43.47

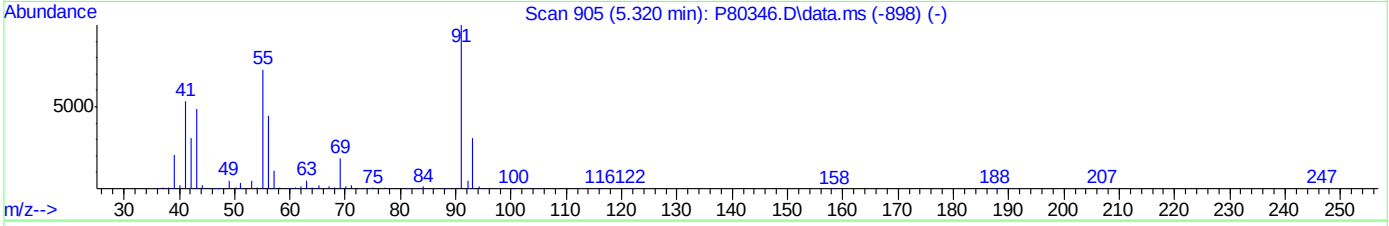
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96682.D
Acq On : 29 Dec 2022 11:32 am
Operator : joannel
Sample : IC3655-2
Misc : MS52806,V1P3655,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 13:13:20 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96682.D\data.ms

(76) 1-Chlorohexane

5.645min (-0.001) 4.64ug/L m

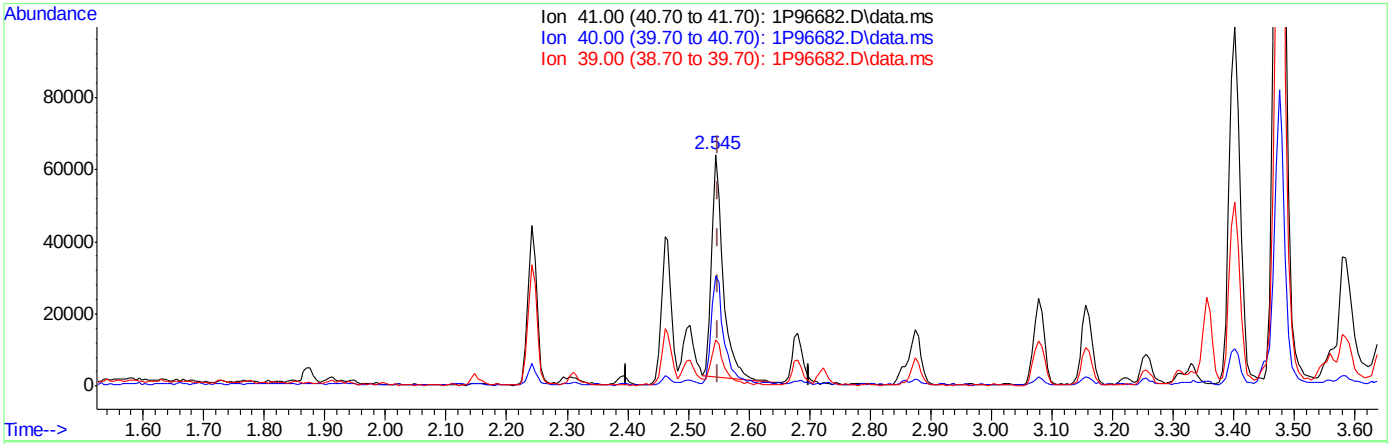
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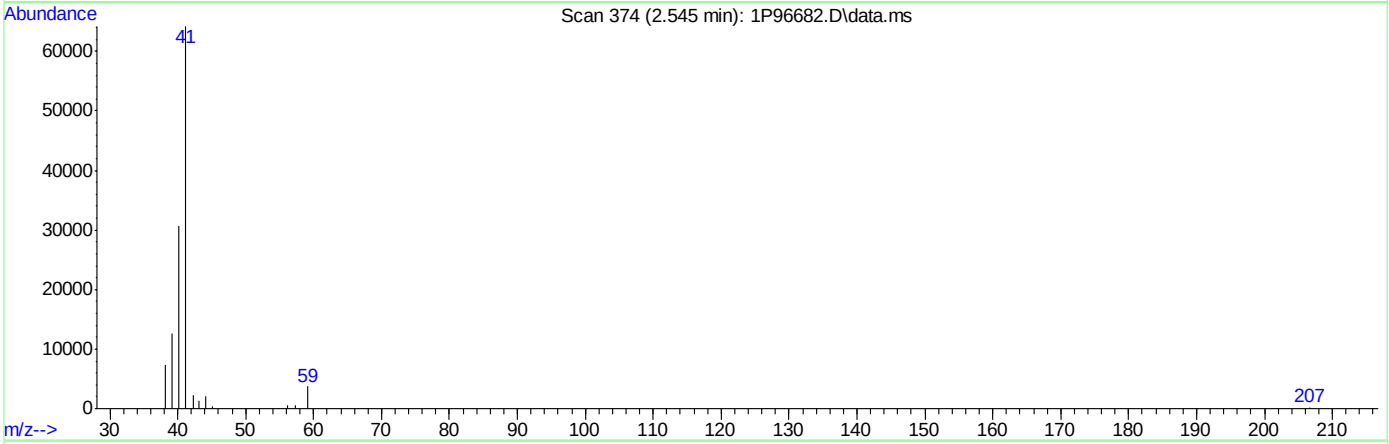
Ion	Exp%	Act%
91.00	100	100
55.00	71.50	75.83
41.00	56.40	67.51
43.10	47.80	47.26

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96682.D
Acq On : 29 Dec 2022 11:32 am
Operator : joannel
Sample : IC3655-2
Misc : MS52806,V1P3655,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 13:16:00 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96682.D\data.ms

(25) Acetonitrile

2.545min (-0.004) 47.06ug/L

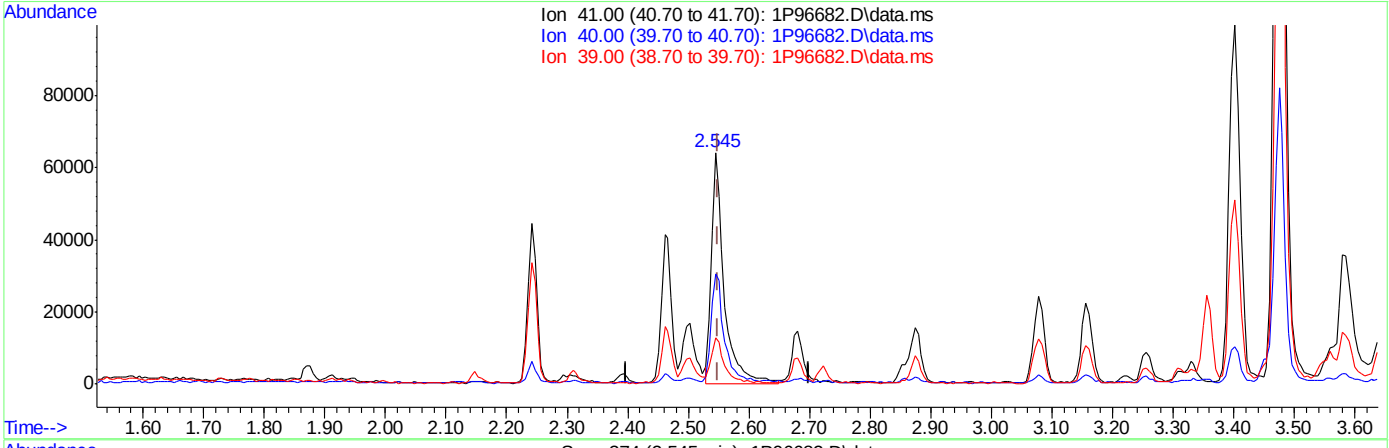
response 81016

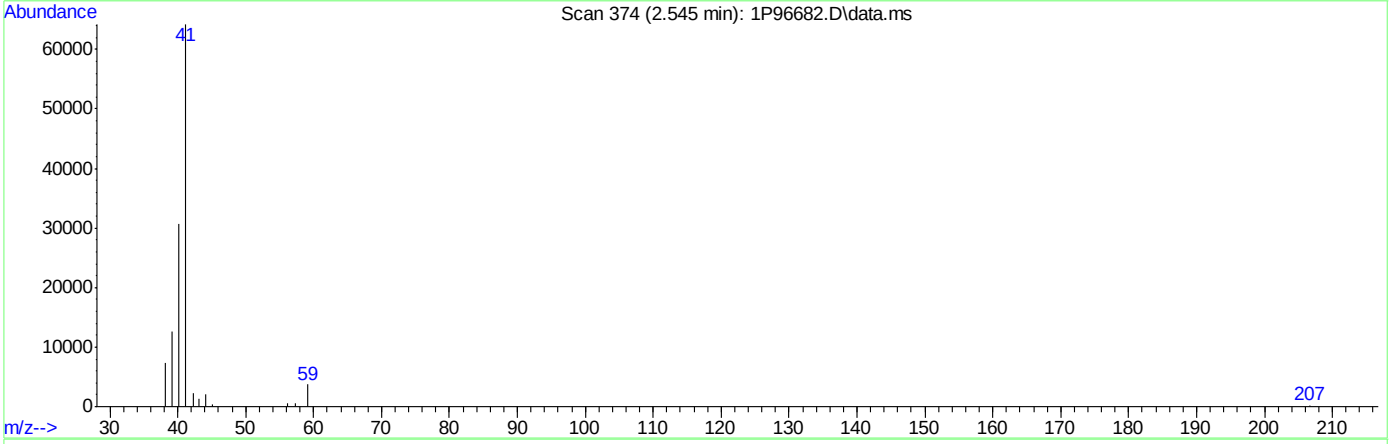
Ion	Exp%	Act%
41.00	100	100
40.00	51.50	47.59
39.00	19.80	19.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96682.D
Acq On : 29 Dec 2022 11:32 am
Operator : joannel
Sample : IC3655-2
Misc : MS52806,V1P3655,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 13:16:00 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96682.D\data.ms

(25) Acetonitrile

2.545min (-0.004) 53.84ug/L m

response 92437

Ion	Exp%	Act%
41.00	100	100
40.00	51.50	47.76
39.00	19.80	19.80
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/03/23 11:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96684.D
Acq On : 29 Dec 2022 12:04 pm
Operator : joannel
Sample : IC3655-3
Misc : MS52806,V1P3655,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 14:25:54 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.714	96	1820615	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.638	117	1217641	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.327	152	524988	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.259	113	383792	46.86	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 93.72%			
49) 1,2-Dichloroethane-d4	3.547	65	527005	47.59	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 95.18%			
63) Toluene-d8	4.645	98	1703370	48.57	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.14%			
86) 4-Bromofluorobenzene	6.490	174	415635	48.80	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.60%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.116	85	53904	6.30	ug/L	98
3) Chloromethane	1.246	50	53149	6.50	ug/L	95
4) 1,3-butadiene	1.314	39	41634	6.92	ug/L	96
5) Vinyl Chloride	1.299	62	57253	8.13	ug/L	98
6) Bromomethane	1.503	94	35950	14.00	ug/L	96
7) Chloroethane	1.576	64	28181	10.58	ug/L	96
8) Trichlorofluoromethane	1.675	101	86688	9.04	ug/L	100
9) Ethyl Ether	1.869	59	61145	11.44	ug/L	94
10) Ethanol	1.947	45	28117	147.11	ug/L	94
11) 1,2-Dichlorotrifluoroe...	1.973	67	69761	8.38	ug/L	97
12) 1,1-Dichloroethene	1.978	61	86424	8.24	ug/L	99
13) Freon 113	2.010	101	54044	8.07	ug/L	98
14) Carbon Disulfide	1.994	76	150639	8.27	ug/L	94
15) Iodomethane	2.057	142	55876	12.21	ug/L	97
16) Acrolein	2.151	56	117645	51.68	ug/L	98
17) Allyl chloride	2.240	41	80572	7.55	ug/L	90
18) Methylene Chloride	2.297	49	96811	10.46	ug/L	97
19) Acetone	2.308	43	191138	42.60	ug/L	99
20) Methyl acetate	2.391	43	435683	46.45	ug/L	98
21) trans-1,2-Dichloroethene	2.397	61	86998	8.37	ug/L	97
22) Hexane	2.465	56	49824m	8.80	ug/L	
23) Methyl Tert Butyl Ether	2.465	73	203377	8.45	ug/L	80
24) Tert Butyl Alcohol	2.496	59	196109	86.30	ug/L	93
25) Acetonitrile	2.548	41	175726m	98.66	ug/L	
26) Di-isopropyl ether	2.679	45	200304	8.98	ug/L	97
27) Chloroprene	2.721	53	294884	9.04	ug/L	98
28) 1,1-Dichloroethane	2.726	63	111407	8.43	ug/L	97
29) Acrylonitrile	2.721	52	197490	47.09	ug/L	96
30) ETBE	2.878	59	201980	8.81	ug/L	99
31) Vinyl acetate	2.857	43	743854	46.96	ug/L	97
32) cis-1,2-Dichloroethene	3.019	96	67303	8.65	ug/L	97
33) 2,2-Dichloropropane	3.081	77	90987	7.38	ug/L	98
34) Bromochloromethane	3.123	128	29517	9.28	ug/L #	81
35) Cyclohexane	3.160	56	100091	8.95	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96684.D
Acq On : 29 Dec 2022 12:04 pm
Operator : joannel
Sample : IC3655-3
Misc : MS52806,V1P3655,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 14:25:54 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.165	83	116528	8.48	ug/L		98
37) Ethyl acetate	3.223	43	555489	47.47	ug/L		99
38) Tetrahydrofuran	3.254	42	43584	9.31	ug/L		96
40) Carbon Tetrachloride	3.264	117	69330m	6.78	ug/L		
41) 1,1,1-Trichloroethane	3.291	97	95200	7.80	ug/L		94
42) 2-Butanone	3.311	43	358997	44.63	ug/L		99
43) 1,1-Dichloropropene	3.359	75	91027	8.71	ug/L		96
44) tert-Butyl formate	3.406	59	215433	33.02	ug/L	#	77
45) Propionitrile	3.453	54	196035	88.72	ug/L		98
46) Methacrylonitrile	3.479	41	671103	90.11	ug/L		99
47) Benzene	3.489	78	287292	9.65	ug/L		88
48) TAME	3.562	73	194355	8.73	ug/L		97
50) Isobutyl alcohol	3.583	43	205166m	248.93	ug/L		
51) 1,2-Dichloroethane	3.583	62	91838	8.47	ug/L		98
52) Tert Amyl Alcohol	3.646	59	157065	87.50	ug/L		90
53) Trichloroethene	3.824	95	67346	8.49	ug/L		95
54) Methylcyclohexane	3.840	83	95780	8.71	ug/L		99
55) Dibromomethane	4.049	93	39352	9.00	ug/L		94
56) 1,2-Dichloropropane	4.106	63	64159	8.63	ug/L		98
57) Bromodichloromethane	4.143	83	69956	7.55	ug/L		97
58) Methyl methacrylate	4.232	41	72893	8.98	ug/L		95
59) 1,4-Dioxane	4.258	88	32593m	192.84	ug/L		
60) 2-Chloroethyl vinyl ether	4.472	63	305377	56.77	ug/L		96
61) cis-1,3-Dichloropropene	4.519	75	96971	8.39	ug/L		97
64) Toluene	4.676	91	293911	9.18	ug/L		99
65) 2-Nitropropane	4.770	41	58956	18.92	ug/L		85
66) 4-Methyl-2-pentanone	4.885	43	607238	47.50	ug/L		97
67) trans-1,3-Dichloropropene	4.916	75	85966	8.49	ug/L	#	80
68) Tetrachloroethene	4.932	166	63911	8.76	ug/L		98
69) Ethyl methacrylate	5.026	69	101407	9.69	ug/L		93
70) 1,1,2-Trichloroethane	5.016	83	49809	9.29	ug/L		90
71) Dibromochloromethane	5.136	129	43094	6.94	ug/L		95
72) 1,3-Dichloropropane	5.188	76	110890	9.27	ug/L		95
73) 1,2-Dibromoethane	5.293	107	60155	9.26	ug/L		96
74) 3,3-dimethyl-1-butanol	5.424	57	890156	479.27	ug/L		99
75) 2-hexanone	5.429	43	621475	51.21	ug/L		81
76) 1-Chlorohexane	5.643	91	86680m	9.01	ug/L		
77) Ethylbenzene	5.680	91	302159	9.04	ug/L		96
78) Chlorobenzene	5.648	112	169540	9.49	ug/L		98
79) 1,1,1,2-Tetrachloroethane	5.695	131	48472	7.59	ug/L		94
80) m,p-Xylene	5.779	91	471022	18.69	ug/L		93
81) o-Xylene	6.072	91	234964	9.56	ug/L		99
82) Styrene	6.108	104	178232	9.77	ug/L		95
83) Bromoform	6.114	173	22018	6.07	ug/L		96
84) Isopropylbenzene	6.302	105	270361	9.50	ug/L		97
87) cis-1,4-Dichloro-2-butene	6.521	53	29859	8.64	ug/L	#	80
88) n-Propylbenzene	6.605	91	306336	9.45	ug/L		97
89) Bromobenzene	6.569	156	61983	9.13	ug/L		89
90) 1,1,2,2-Tetrachloroethane	6.626	83	86371	9.33	ug/L		98
91) 1,3,5-Trimethylbenzene	6.752	105	214121	9.95	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96684.D
Acq On : 29 Dec 2022 12:04 pm
Operator : joannel
Sample : IC3655-3
Misc : MS52806,V1P3655,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 14:25:54 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

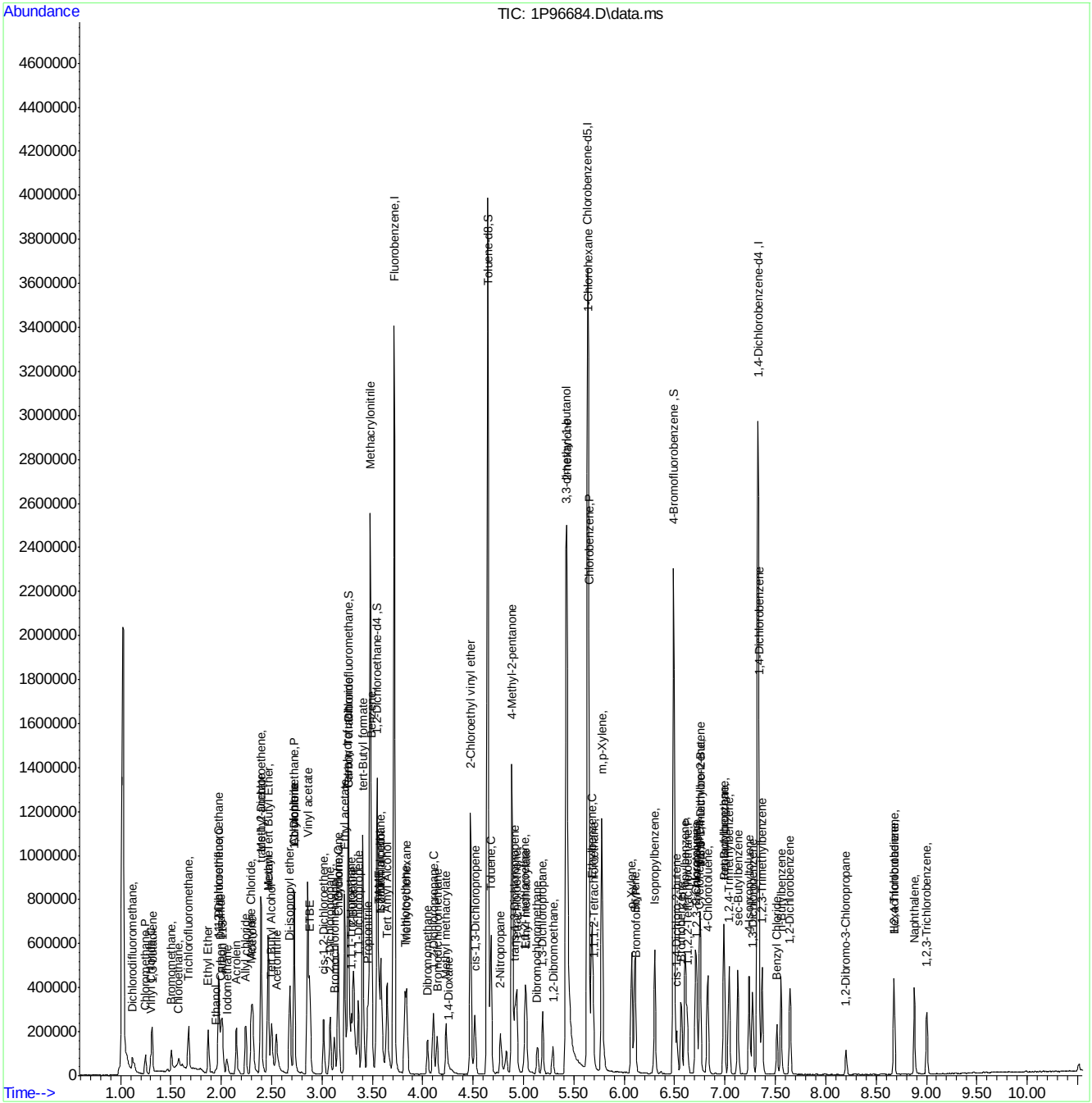
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 2-Chlorotoluene	6.710	91	184444	9.49	ug/L		98
93) trans-1,4-Dichloro-2-B...	6.752	53	30173	9.03	ug/L	#	75
94) 1,2,3-Trichloropropane	6.720	110	31650	9.53	ug/L		94
95) Cyclohexanone	6.746	55	27938	53.00	ug/L		95
96) 4-Chlorotoluene	6.830	91	190182	9.26	ug/L		97
97) tert-Butylbenzene	6.992	91	116971	9.65	ug/L		91
99) 1,2,4-Trimethylbenzene	7.039	105	200681	9.78	ug/L		98
100) Pentachloroethane	6.992	167	23136	6.38	ug/L	#	60
101) sec-Butylbenzene	7.128	105	236742	10.11	ug/L		97
102) 4-Isopropyltoluene	7.243	119	199470	9.74	ug/L		96
103) 1,3-Dichlorobenzene	7.274	146	110360	9.23	ug/L		96
104) 1,2,3-Trimethylbenzene	7.368	105	192354	9.28	ug/L		98
105) 1,4-Dichlorobenzene	7.337	146	114935	9.26	ug/L		89
106) n-Butylbenzene	7.557	92	92672	9.13	ug/L		94
107) Benzyl Chloride	7.515	126	22068	6.70	ug/L	#	86
108) 1,2-Dichlorobenzene	7.646	146	104857	9.31	ug/L		98
109) 1,2-Dibromo-3-Chloropr...	8.200	75	17319	6.97	ug/L	#	79
110) Hexachlorobutadiene	8.681	225	20103	7.10	ug/L	#	76
111) 1,2,4-Trichlorobenzene	8.681	180	53328	9.19	ug/L		98
112) Naphthalene	8.879	128	190836	9.93	ug/L		99
113) 1,2,3-Trichlorobenzene	9.005	180	50438	8.34	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96684.D
Acq On : 29 Dec 2022 12:04 pm
Operator : joannel
Sample : IC3655-3
Misc : MS52806,V1P3655,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 14:25:54 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration



Manual Integration Approval Summary

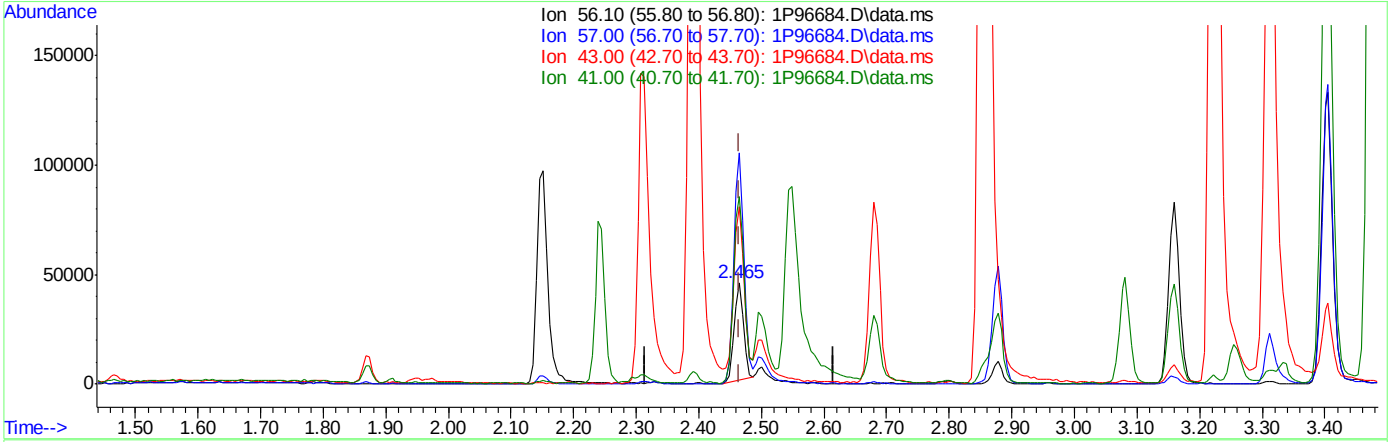
Sample Number: V1P3655-IC3655
Lab FileID: 1P96684.D
Injection Time: 12/29/22 12:04
Method: SW846 8260D
Analyst approved: 12/31/22 09:29 Adelard Lefebvre
Supervisor approved: 01/03/23 11:45 Karen Watson

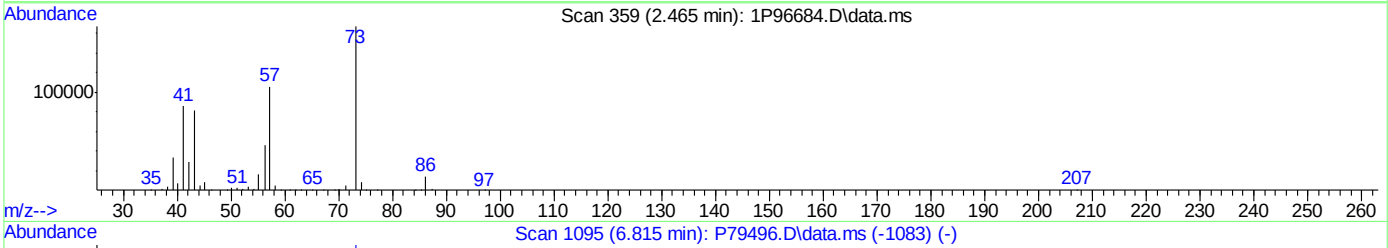
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		2.46	Overlapping peak
Acetonitrile	75-05-8		2.55	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.58	Split peak
1,4-Dioxane	123-91-1		4.26	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration

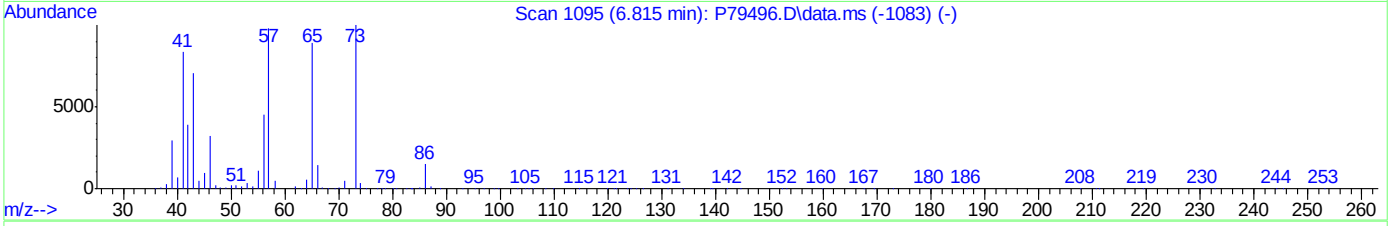
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96684.D
Acq On : 29 Dec 2022 12:04 pm
Operator : joannel
Sample : IC3655-3
Misc : MS52806,V1P3655,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 13:13:22 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96684.D\data.ms

(22) Hexane

2.465min (-0.001) 7.90ug/L

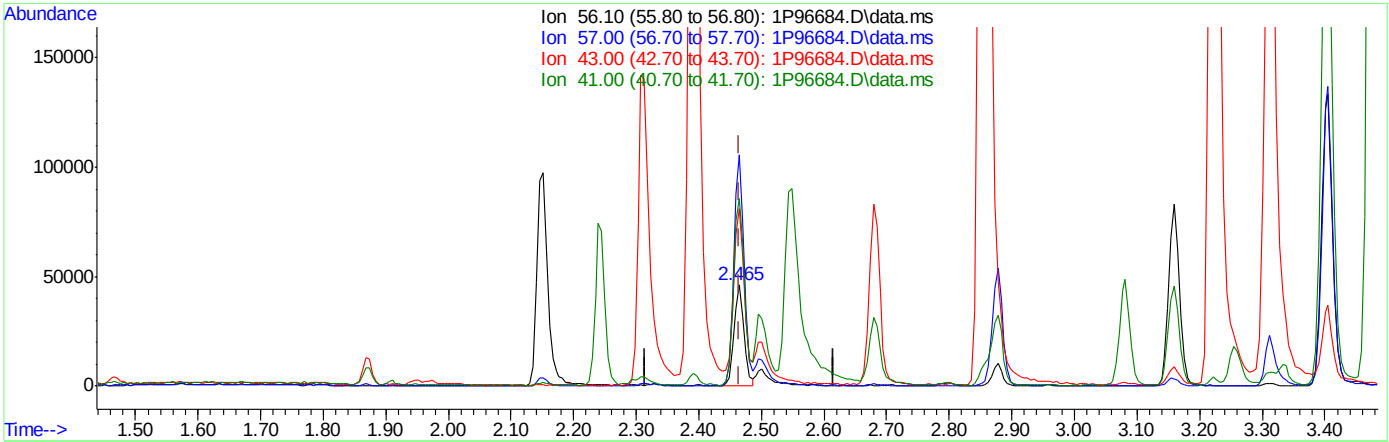
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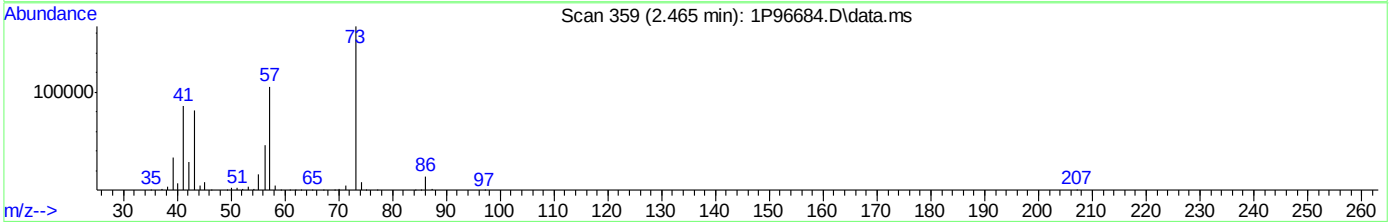
Ion	Exp%	Act%
56.10	100	100
57.00	250.90	230.11#
43.00	172.00	161.72
41.00	198.00	185.92

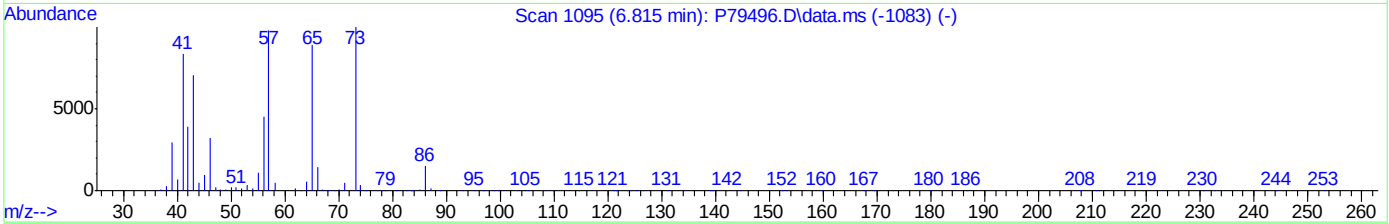
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96684.D
Acq On : 29 Dec 2022 12:04 pm
Operator : joannel
Sample : IC3655-3
Misc : MS52806,V1P3655,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 13:13:22 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96684.D\data.ms

(22) Hexane

2.465min (-0.001) 8.80ug/L m

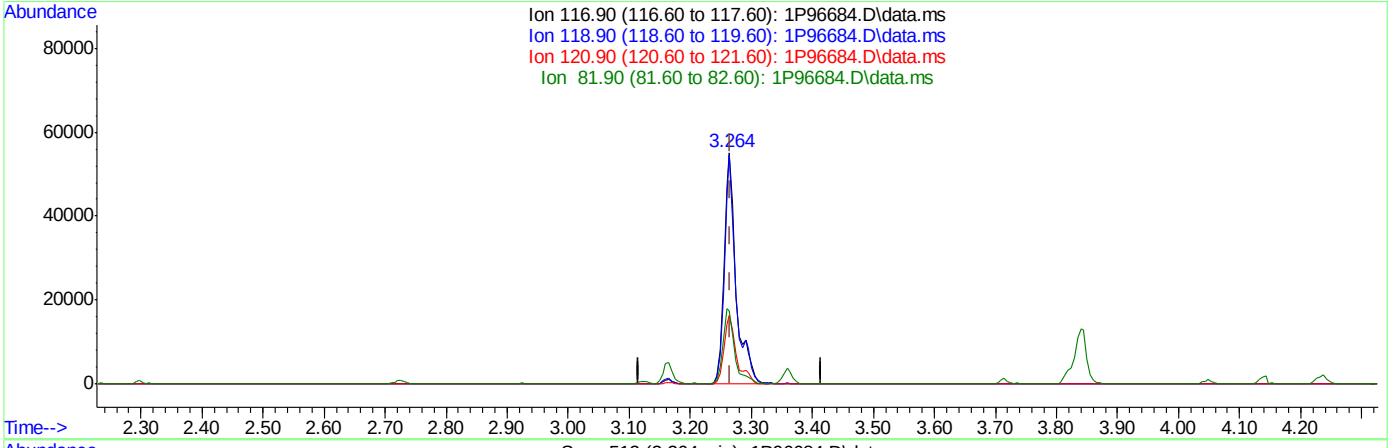
response 49824

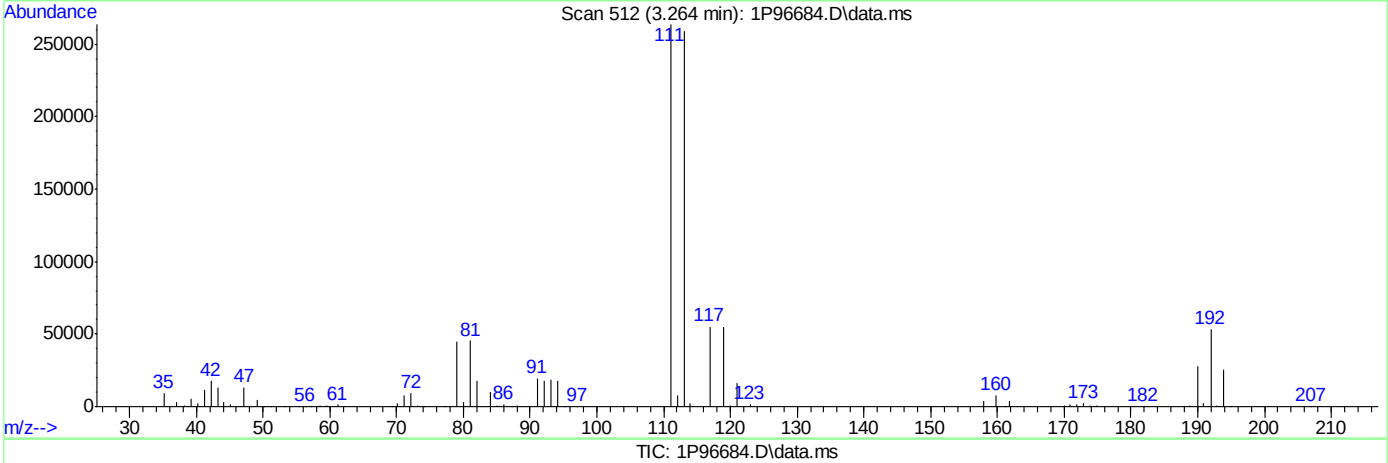
Ion	Exp%	Act%
56.10	100	100
57.00	250.90	229.25#
43.00	172.00	176.03
41.00	198.00	185.94

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96684.D
Acq On : 29 Dec 2022 12:04 pm
Operator : joannel
Sample : IC3655-3
Misc : MS52806,V1P3655,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 13:17:49 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96684.D\data.ms

(40) Carbon Tetrachloride ( )

3.264min (-0.001) 7.56ug/L

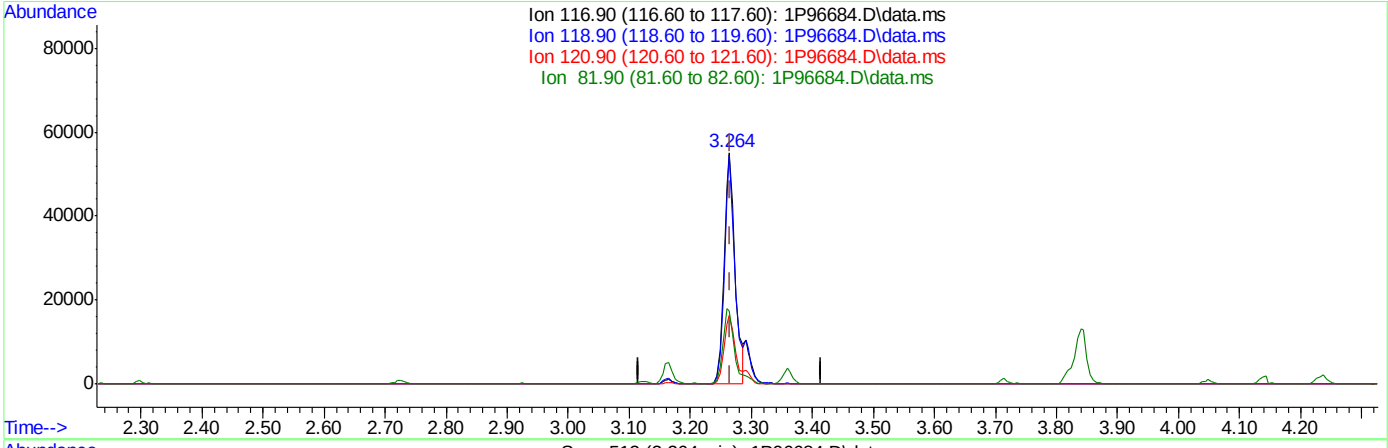
response 77342

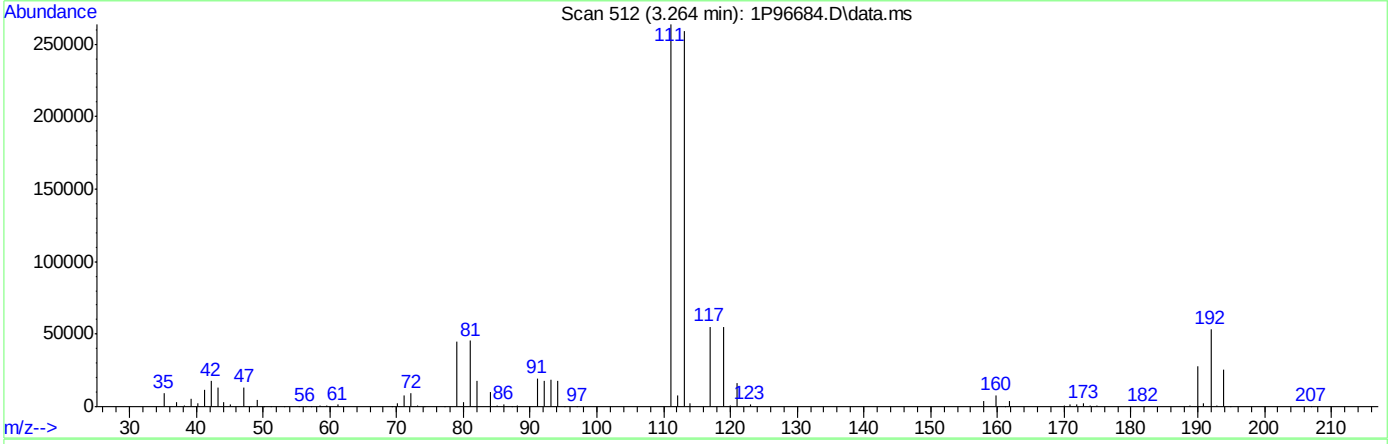
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	99.09
120.90	30.60	29.78
81.90	24.90	31.72

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96684.D
Acq On : 29 Dec 2022 12:04 pm
Operator : joannel
Sample : IC3655-3
Misc : MS52806,V1P3655,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 13:17:49 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96684.D\data.ms

(40) Carbon Tetrachloride ( )

3.264min (-0.001) 6.78ug/L m

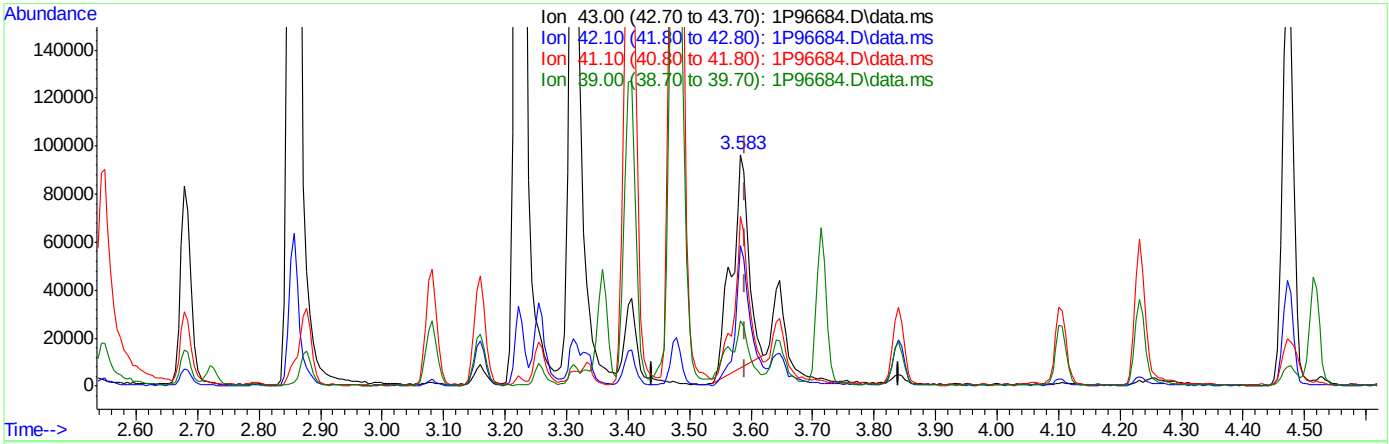
response 69330

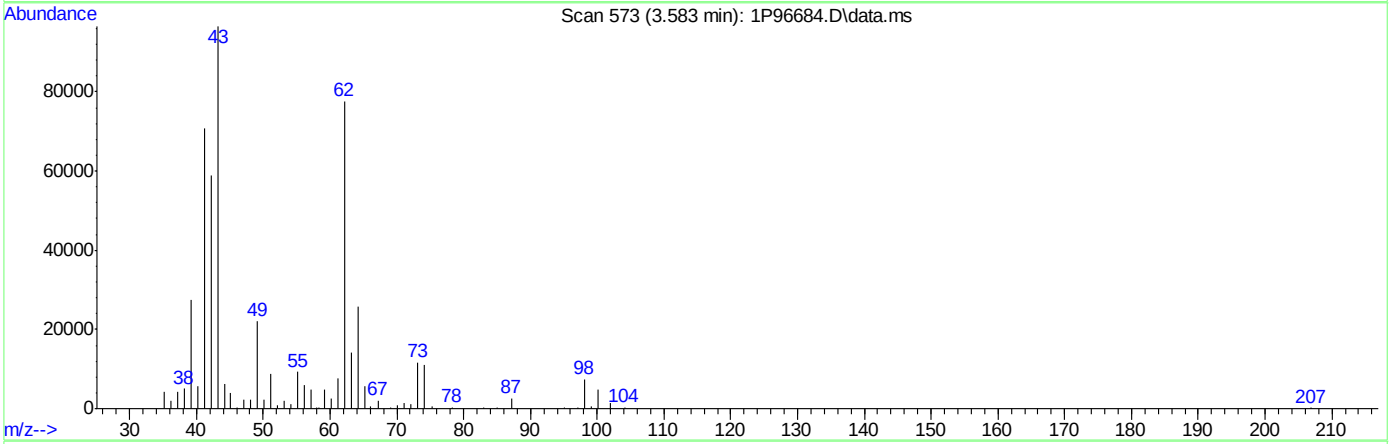
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	99.09
120.90	30.60	29.78
81.90	24.90	31.72

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96684.D
Acq On : 29 Dec 2022 12:04 pm
Operator : joannel
Sample : IC3655-3
Misc : MS52806,V1P3655,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 13:17:49 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96684.D\data.ms

(50) Isobutyl alcohol

3.583min (-0.007) 208.65ug/L

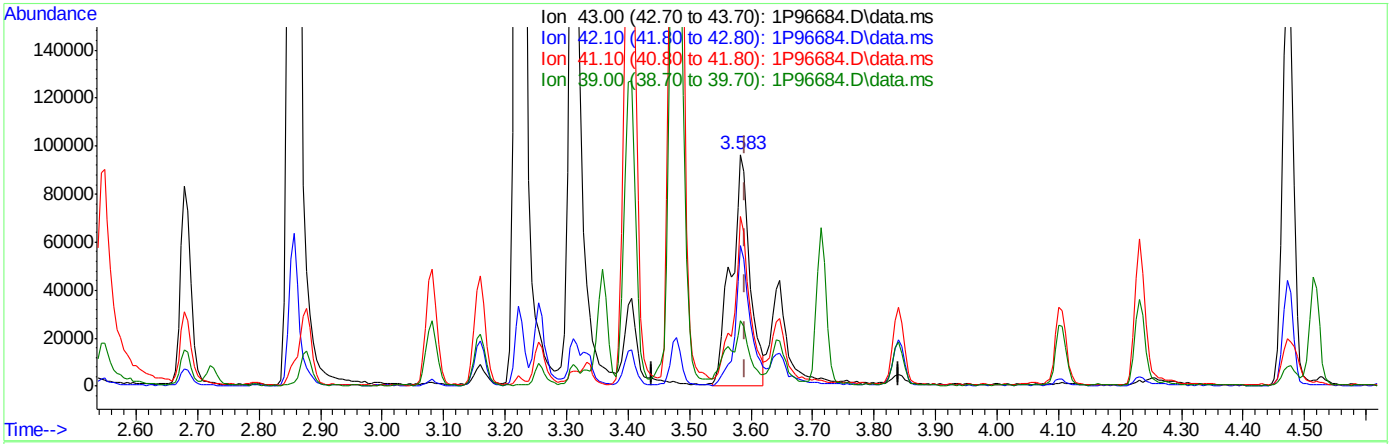
response 171968

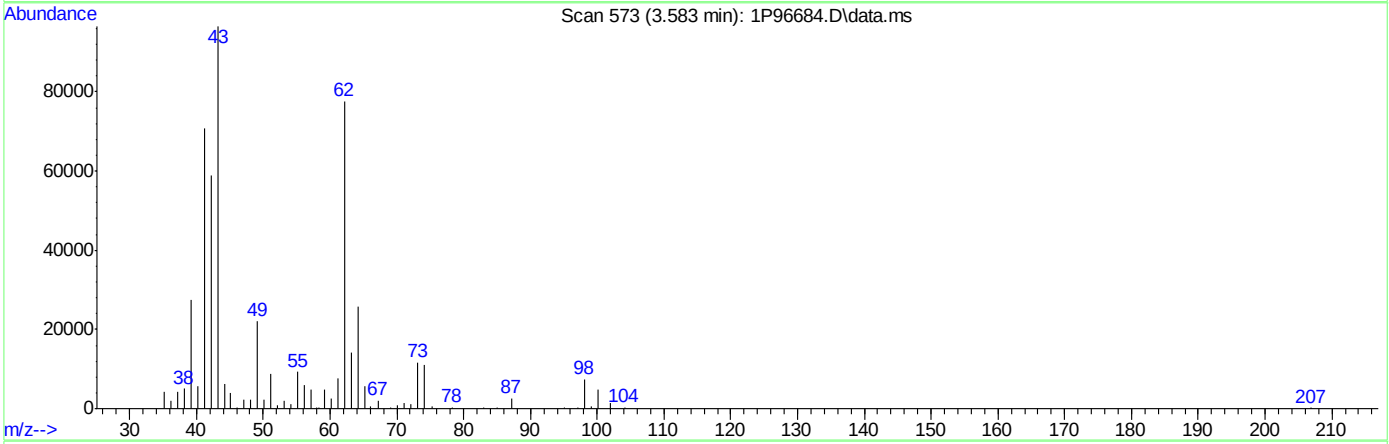
Ion	Exp%	Act%
43.00	100	100
42.10	58.50	61.32
41.10	71.10	71.02
39.00	23.40	25.52

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96684.D
Acq On : 29 Dec 2022 12:04 pm
Operator : joannel
Sample : IC3655-3
Misc : MS52806,V1P3655,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 13:17:49 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96684.D\data.ms

(50) Isobutyl alcohol

3.583min (-0.007) 248.93ug/L m

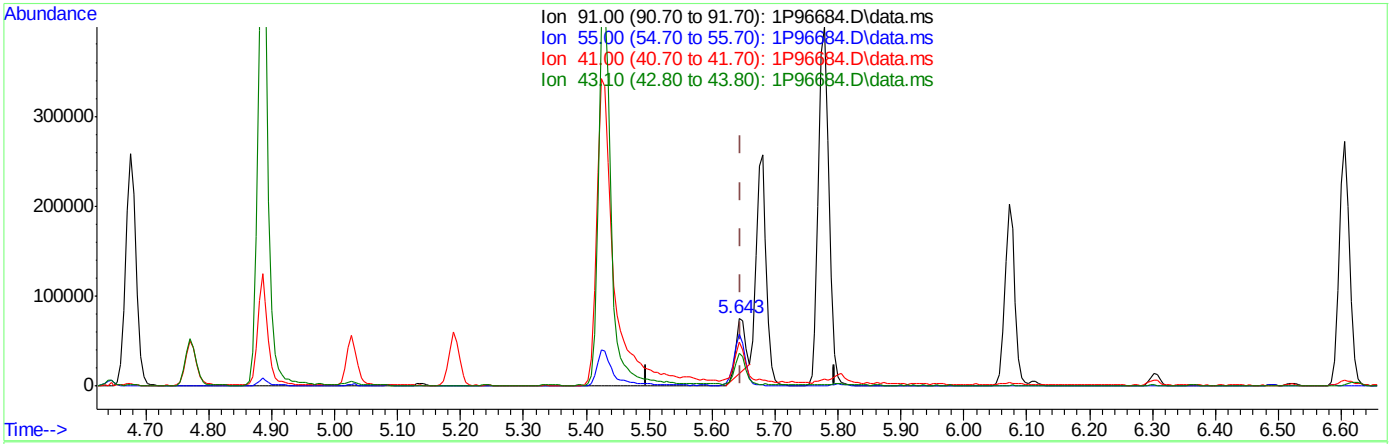
response 205166

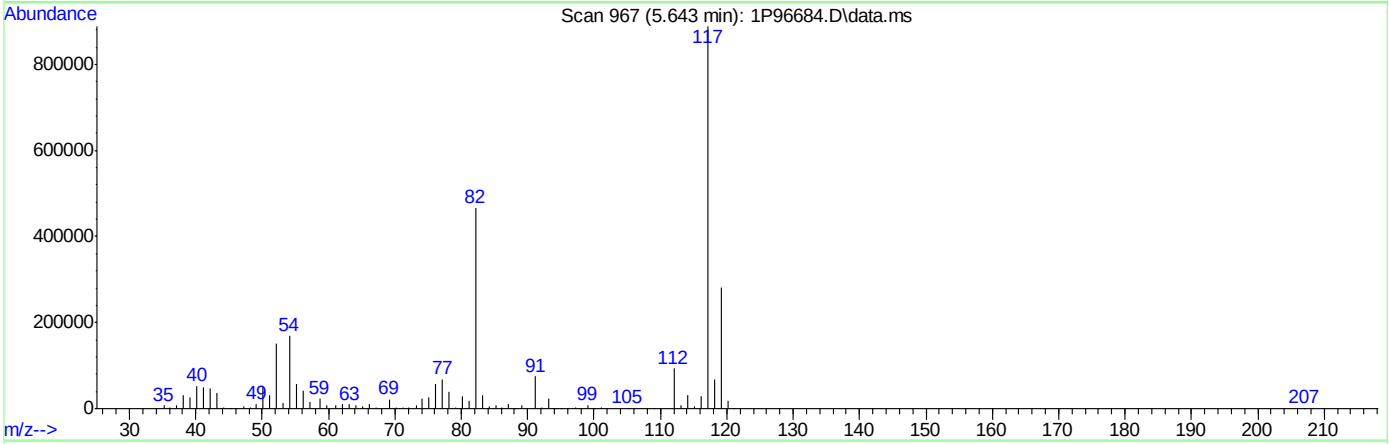
Ion	Exp%	Act%
43.00	100	100
42.10	58.50	60.88
41.10	71.10	73.35
39.00	23.40	28.39

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96684.D
Acq On : 29 Dec 2022 12:04 pm
Operator : joannel
Sample : IC3655-3
Misc : MS52806,V1P3655,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 13:17:49 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96684.D\data.ms

(76) 1-Chlorohexane

5.643min (-0.002) 6.24ug/L

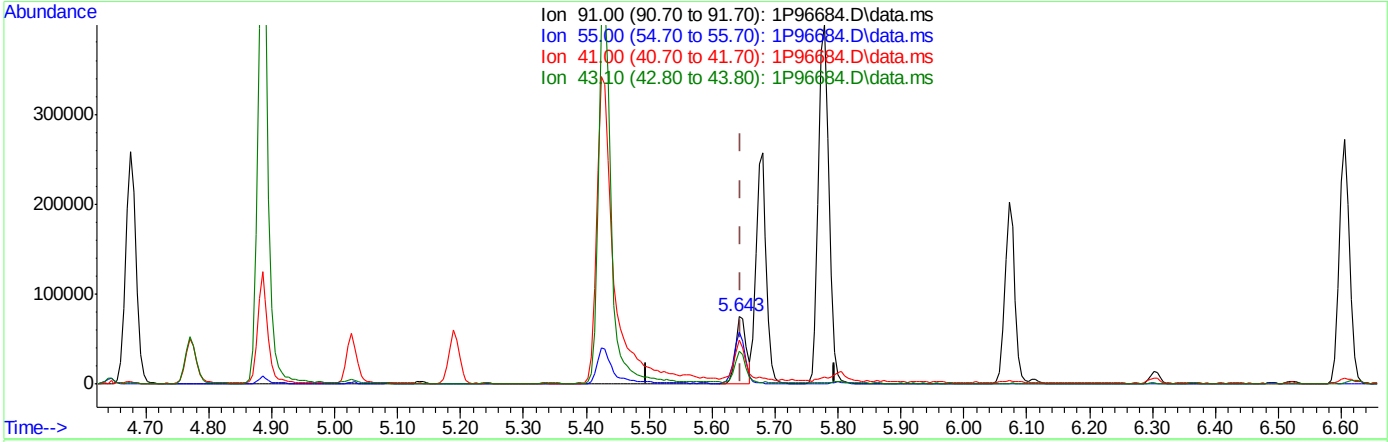
response 60066

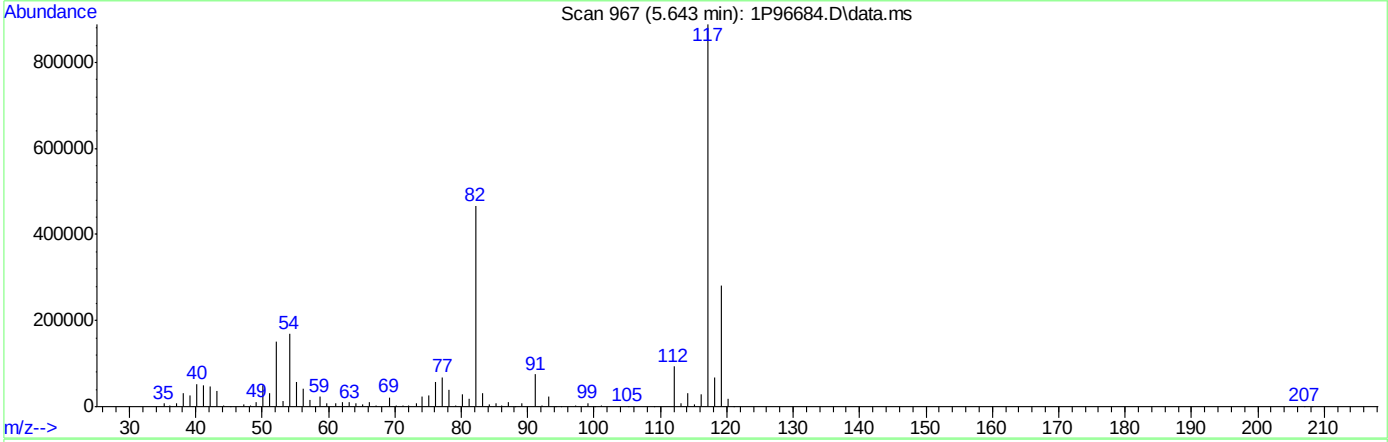
Ion	Exp%	Act%
91.00	100	100
55.00	71.50	73.23
41.00	56.40	54.58
43.10	47.80	44.25

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96684.D
Acq On : 29 Dec 2022 12:04 pm
Operator : joannel
Sample : IC3655-3
Misc : MS52806,V1P3655,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 13:17:49 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96684.D\data.ms

(76) 1-Chlorohexane

5.643min (-0.002) 9.01ug/L m

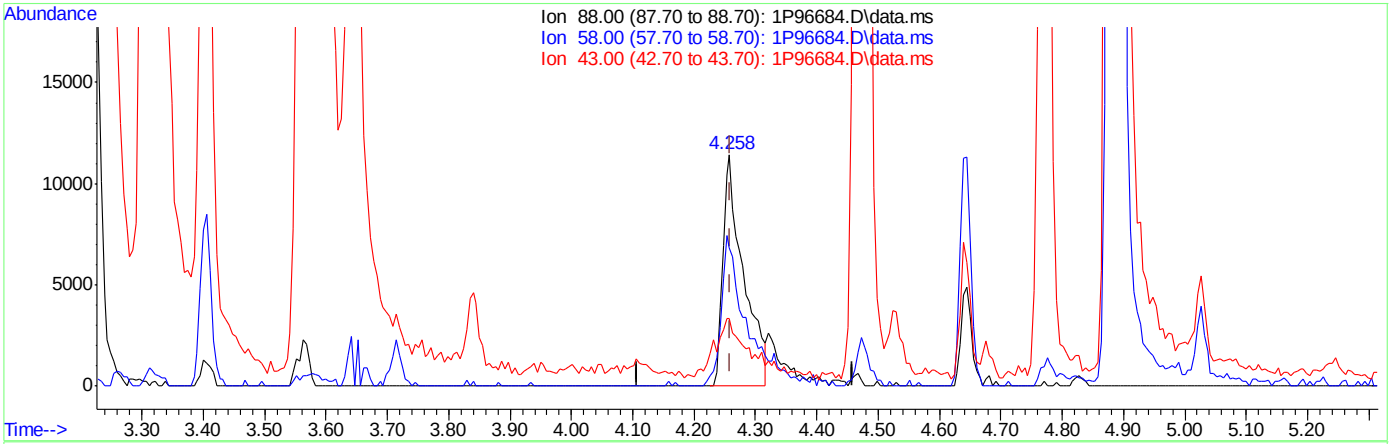
response 86680

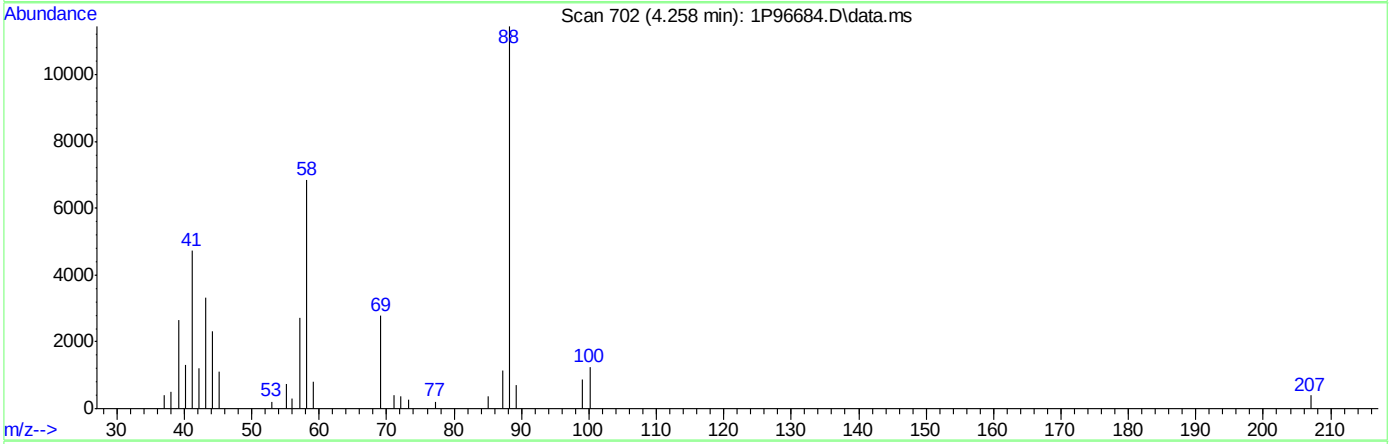
Ion	Exp%	Act%
91.00	100	100
55.00	71.50	77.09
41.00	56.40	64.53
43.10	47.80	47.90

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96684.D
Acq On : 29 Dec 2022 12:04 pm
Operator : joannel
Sample : IC3655-3
Misc : MS52806,V1P3655,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 13:19:39 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96684.D\data.ms

(59) 1,4-Dioxane

4.258min (-0.001) 158.89ug/L

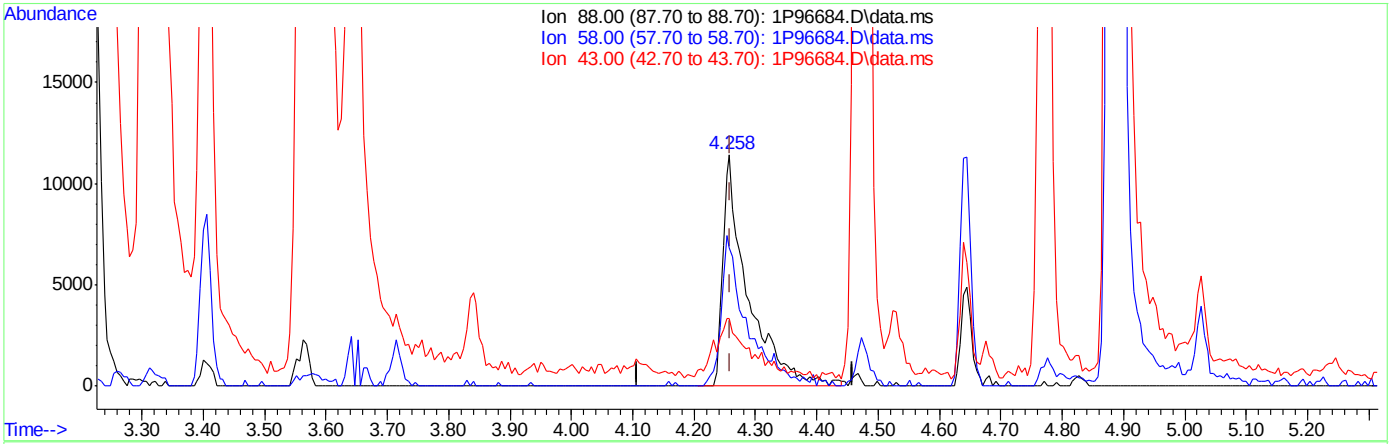
response 26834

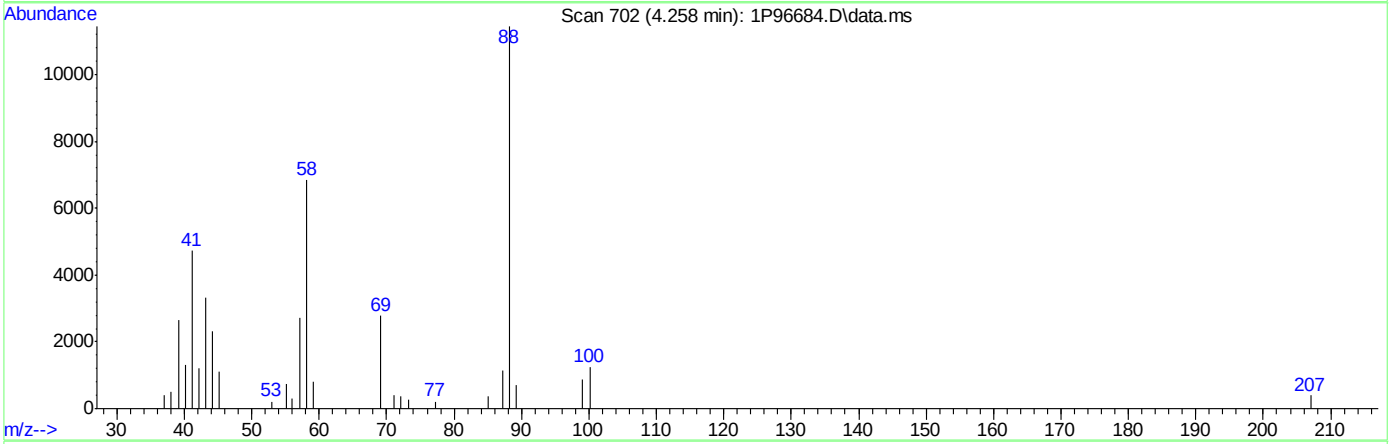
Ion	Exp%	Act%
88.00	100	100
58.00	66.90	55.30
43.00	26.50	20.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96684.D
Acq On : 29 Dec 2022 12:04 pm
Operator : joannel
Sample : IC3655-3
Misc : MS52806,V1P3655,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 13:19:39 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96684.D\data.ms

(59) 1,4-Dioxane

4.258min (-0.001) 192.84ug/L m

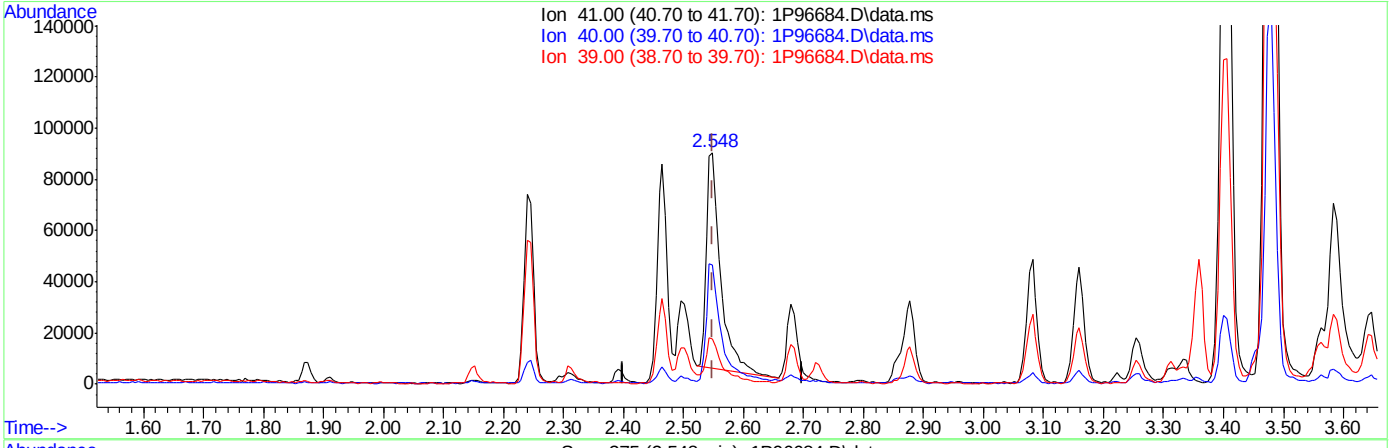
response 32593

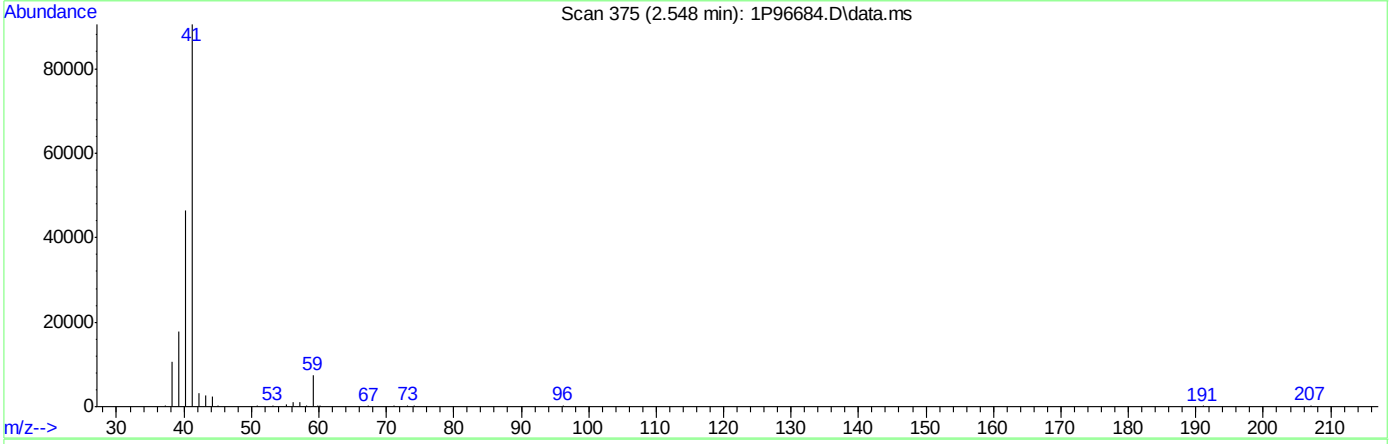
Ion	Exp%	Act%
88.00	100	100
58.00	66.90	59.77
43.00	26.50	29.10
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96684.D
Acq On : 29 Dec 2022 12:04 pm
Operator : joannel
Sample : IC3655-3
Misc : MS52806,V1P3655,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 13:20:49 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96684.D\data.ms

(25) Acetonitrile

2.548min (-0.001) 77.24ug/L

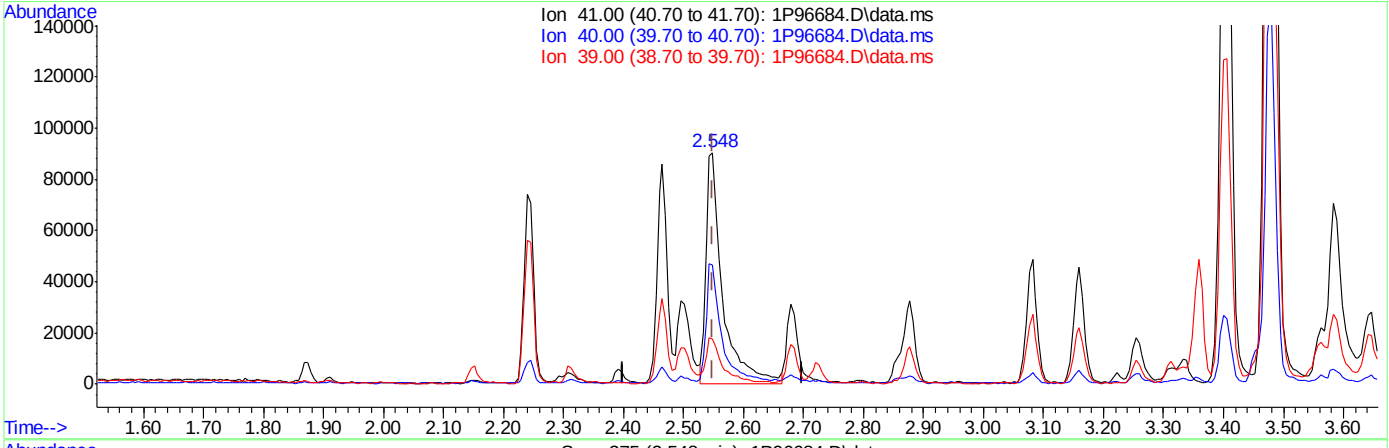
response 138810

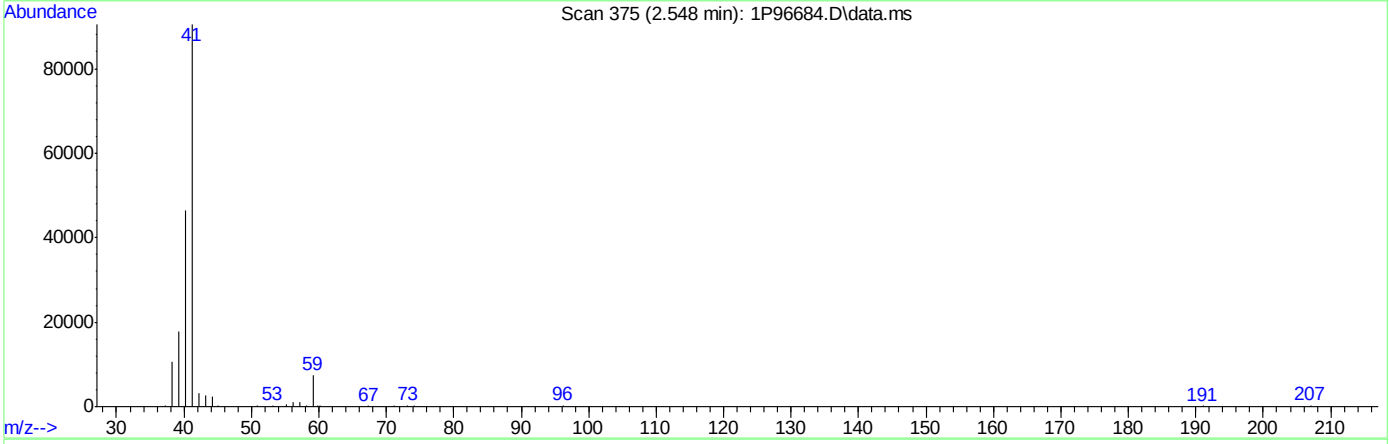
Ion	Exp%	Act%
41.00	100	100
40.00	51.50	51.39
39.00	19.80	19.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96684.D
Acq On : 29 Dec 2022 12:04 pm
Operator : joannel
Sample : IC3655-3
Misc : MS52806,V1P3655,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 13:20:49 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96684.D\data.ms

(25) Acetonitrile

2.548min (-0.001) 98.66ug/L m

response 175726

Ion	Exp%	Act%
41.00	100	100
40.00	51.50	51.37
39.00	19.80	19.76
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/03/23 11:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96686.D
Acq On : 29 Dec 2022 12:35 pm
Operator : joannel
Sample : IC3655-4
Misc : MS52806,V1P3655,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 14:26:30 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.718	96	1837566	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.637	117	1227105	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.331	152	556895	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.263	113	392461	47.48	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.96%			
49) 1,2-Dichloroethane-d4	3.546	65	538382	48.17	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.34%			
63) Toluene-d8	4.643	98	1733084	49.03	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.06%			
86) 4-Bromofluorobenzene	6.489	174	442451	48.97	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.94%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.120	85	165322	19.15	ug/L	99
3) Chloromethane	1.251	50	162910	19.74	ug/L	99
4) 1,3-butadiene	1.313	39	98226	16.17	ug/L	94
5) Vinyl Chloride	1.303	62	167159	23.03	ug/L	99
6) Bromomethane	1.507	94	97522	37.63	ug/L	97
7) Chloroethane	1.580	64	69368	25.81	ug/L	96
8) Trichlorofluoromethane	1.674	101	244042	27.60	ug/L	99
9) Ethyl Ether	1.873	59	151980	28.16	ug/L	96
10) Ethanol	1.956	45	72588	391.96	ug/L	99
11) 1,2-Dichlorotrifluoroe...	1.972	67	178385	21.24	ug/L	96
12) 1,1-Dichloroethene	1.977	61	226479	21.39	ug/L	96
13) Freon 113	2.014	101	138355	20.48	ug/L	98
14) Carbon Disulfide	1.998	76	388185	21.12	ug/L	96
15) Iodomethane	2.056	142	146934	31.19	ug/L	96
16) Acrolein	2.150	56	268633	116.93	ug/L	99
17) Allyl chloride	2.244	41	225992	20.99	ug/L	94
18) Methylene Chloride	2.296	49	217188	23.77	ug/L	97
19) Acetone	2.312	43	484997	109.29	ug/L	99
20) Methyl acetate	2.390	43	1079016	113.98	ug/L	99
21) trans-1,2-Dichloroethene	2.401	61	226258	21.56	ug/L	92
22) Hexane	2.463	56	130700m	22.87	ug/L	
23) Methyl Tert Butyl Ether	2.469	73	523118	21.53	ug/L	85
24) Tert Butyl Alcohol	2.505	59	464657	202.59	ug/L	96
25) Acetonitrile	2.547	41	431947m	257.48	ug/L	
26) Di-isopropyl ether	2.683	45	515177	22.87	ug/L	99
27) Chloroprene	2.725	53	749787	22.77	ug/L	97
28) 1,1-Dichloroethane	2.725	63	293566	22.00	ug/L	97
29) Acrylonitrile	2.725	52	494912	116.92	ug/L	98
30) ETBE	2.876	59	520022	22.47	ug/L	99
31) Vinyl acetate	2.856	43	1994666	124.75	ug/L	98
32) cis-1,2-Dichloroethene	3.018	96	175037	22.28	ug/L	99
33) 2,2-Dichloropropane	3.080	77	249312	20.04	ug/L	100
34) Bromochloromethane	3.122	128	72336	22.53	ug/L	96
35) Cyclohexane	3.159	56	261389	23.16	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96686.D
Acq On : 29 Dec 2022 12:35 pm
Operator : joannel
Sample : IC3655-4
Misc : MS52806,V1P3655,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 14:26:30 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.164	83	300553	21.68	ug/L		98
37) Ethyl acetate	3.221	43	1427023	120.82	ug/L		99
38) Tetrahydrofuran	3.258	42	109852	23.24	ug/L		98
40) Carbon Tetrachloride	3.263	117	181558m	17.59	ug/L		
41) 1,1,1-Trichloroethane	3.289	97	254027	20.63	ug/L		97
42) 2-Butanone	3.310	43	891487	112.30	ug/L		100
43) 1,1-Dichloropropene	3.357	75	237619	22.52	ug/L		95
44) tert-Butyl formate	3.404	59	539364	81.91	ug/L	#	83
45) Propionitrile	3.457	54	491520	220.41	ug/L		100
46) Methacrylonitrile	3.478	41	1688032	233.94	ug/L		98
47) Benzene	3.493	78	722572	24.05	ug/L		82
48) TAME	3.561	73	502698	22.38	ug/L		96
50) Isobutyl alcohol	3.587	43	535148m	643.31	ug/L		
51) 1,2-Dichloroethane	3.587	62	229848	21.01	ug/L		98
52) Tert Amyl Alcohol	3.645	59	384121	212.02	ug/L		94
53) Trichloroethene	3.823	95	177617	22.19	ug/L		93
54) Methylcyclohexane	3.844	83	256050	23.07	ug/L		97
55) Dibromomethane	4.048	93	99711	22.59	ug/L		93
56) 1,2-Dichloropropane	4.105	63	167503	22.32	ug/L		97
57) Bromodichloromethane	4.142	83	190688	20.38	ug/L		98
58) Methyl methacrylate	4.230	41	210411	25.68	ug/L		95
59) 1,4-Dioxane	4.257	88	71975	419.79	ug/L		95
60) 2-Chloroethyl vinyl ether	4.476	63	706196	130.08	ug/L		98
61) cis-1,3-Dichloropropene	4.518	75	255852	21.94	ug/L		95
64) Toluene	4.675	91	756076	23.42	ug/L		99
65) 2-Nitropropane	4.774	41	182950	58.25	ug/L		87
66) 4-Methyl-2-pentanone	4.884	43	1526587	118.49	ug/L		98
67) trans-1,3-Dichloropropene	4.915	75	232088	22.76	ug/L	#	80
68) Tetrachloroethene	4.931	166	173014	23.54	ug/L		95
69) Ethyl methacrylate	5.025	69	278365	26.39	ug/L		92
70) 1,1,2-Trichloroethane	5.015	83	128160	23.72	ug/L		89
71) Dibromochloromethane	5.140	129	122813	19.62	ug/L		99
72) 1,3-Dichloropropane	5.192	76	280483	23.27	ug/L		99
73) 1,2-Dibromoethane	5.292	107	156832	23.96	ug/L		99
74) 3,3-dimethyl-1-butanol	5.428	57	2135873	1148.19	ug/L		99
75) 2-hexanone	5.428	43	1534975	125.51	ug/L		82
76) 1-Chlorohexane	5.647	91	220543m	22.74	ug/L		
77) Ethylbenzene	5.679	91	787910	23.38	ug/L		98
78) Chlorobenzene	5.652	112	427773	23.75	ug/L		97
79) 1,1,1,2-Tetrachloroethane	5.694	131	132615	20.60	ug/L		96
80) m,p-Xylene	5.778	91	1220816	48.06	ug/L		94
81) o-Xylene	6.071	91	593449	23.97	ug/L		97
82) Styrene	6.107	104	483332	25.72	ug/L		95
83) Bromoform	6.113	173	67341	17.77	ug/L		99
84) Isopropylbenzene	6.306	105	719875	24.59	ug/L		98
87) cis-1,4-Dichloro-2-butene	6.520	53	83739	22.84	ug/L	#	86
88) n-Propylbenzene	6.604	91	818706	23.82	ug/L		97
89) Bromobenzene	6.567	156	165526	22.98	ug/L		93
90) 1,1,2,2-Tetrachloroethane	6.625	83	219894	22.40	ug/L		99
91) 1,3,5-Trimethylbenzene	6.750	105	566598	24.82	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96686.D
Acq On : 29 Dec 2022 12:35 pm
Operator : joannel
Sample : IC3655-4
Misc : MS52806,V1P3655,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 14:26:30 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

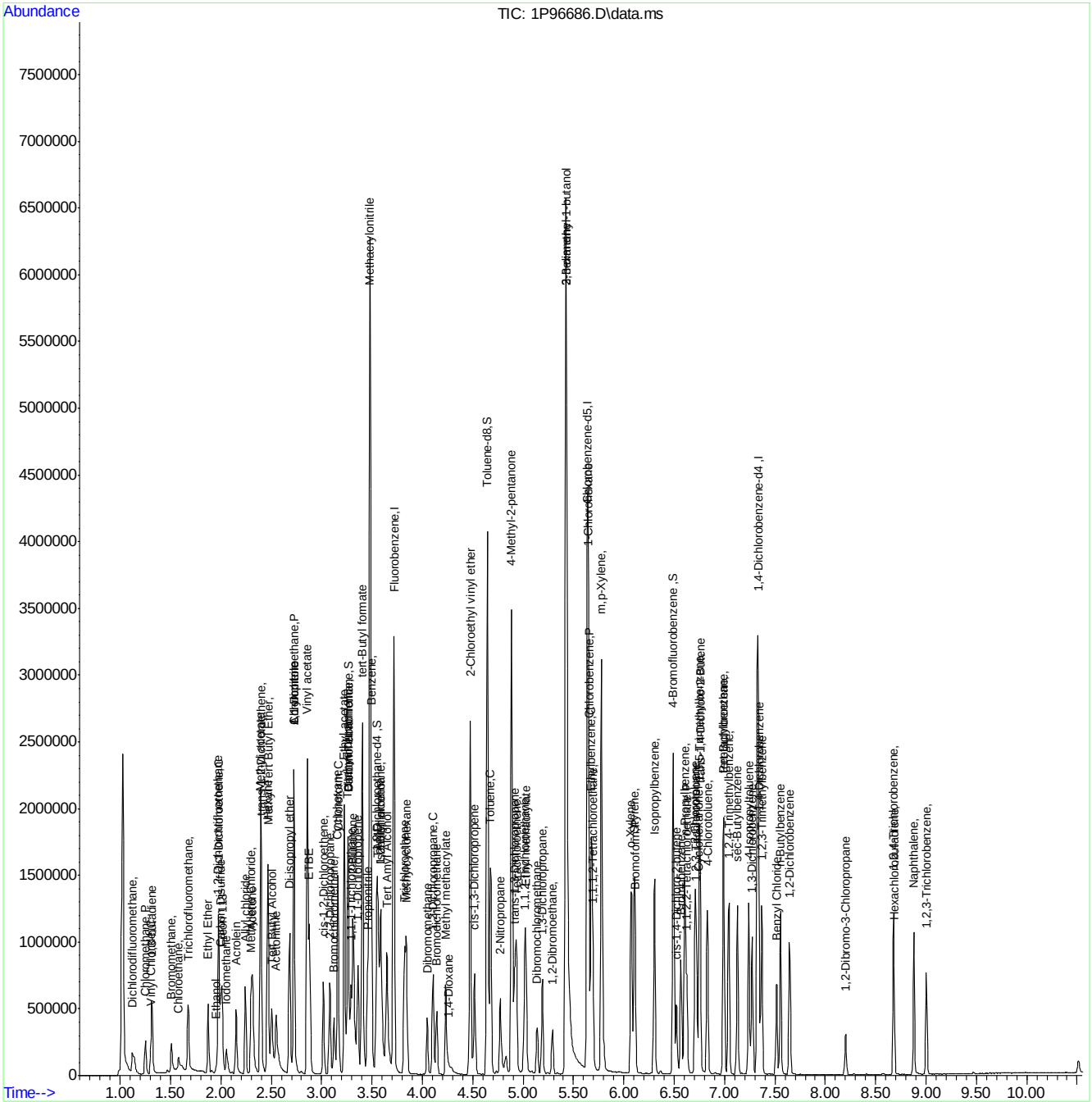
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.709	91	480260	23.28	ug/L		98
93)	trans-1,4-Dichloro-2-B...	6.756	53	80320	22.65	ug/L		94
94)	1,2,3-Trichloropropane	6.719	110	81302	23.08	ug/L		97
95)	Cyclohexanone	6.745	55	62916	112.52	ug/L		98
96)	4-Chlorotoluene	6.829	91	496108	22.78	ug/L		95
97)	tert-Butylbenzene	6.991	91	312343	24.28	ug/L		91
99)	1,2,4-Trimethylbenzene	7.043	105	534136	23.94	ug/L		98
100)	Pentachloroethane	6.991	167	75132	19.55	ug/L	#	78
101)	sec-Butylbenzene	7.127	105	631923	25.44	ug/L		98
102)	4-Isopropyltoluene	7.242	119	543824	24.33	ug/L		98
103)	1,3-Dichlorobenzene	7.273	146	296787	23.40	ug/L		97
104)	1,2,3-Trimethylbenzene	7.367	105	514873	23.41	ug/L		98
105)	1,4-Dichlorobenzene	7.341	146	304685	23.13	ug/L		98
106)	n-Butylbenzene	7.555	92	256181	23.23	ug/L		97
107)	Benzyl Chloride	7.519	126	71903	19.79	ug/L		95
108)	1,2-Dichlorobenzene	7.644	146	281169	23.53	ug/L		99
109)	1,2-Dibromo-3-Chloropr...	8.199	75	49301	18.70	ug/L		82
110)	Hexachlorobutadiene	8.685	225	53765	17.89	ug/L		96
111)	1,2,4-Trichlorobenzene	8.680	180	142806	22.29	ug/L		98
112)	Naphthalene	8.878	128	521754	24.08	ug/L		99
113)	1,2,3-Trichlorobenzene	9.004	180	136417	21.28	ug/L		100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96686.D
Acq On : 29 Dec 2022 12:35 pm
Operator : joannel
Sample : IC3655-4
Misc : MS52806,V1P3655,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 14:26:30 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration



Manual Integration Approval Summary

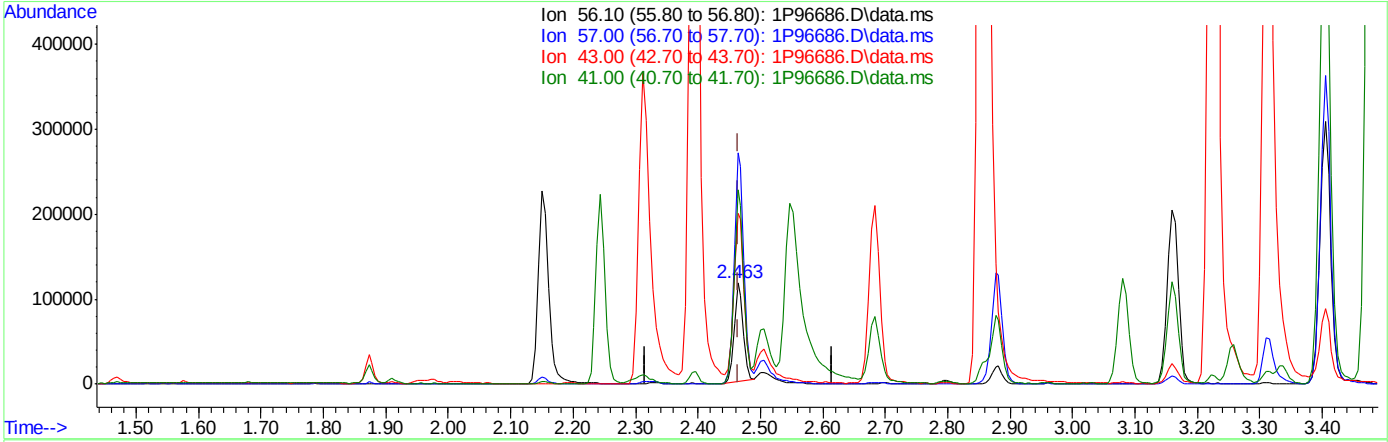
Sample Number: V1P3655-IC3655
Lab FileID: 1P96686.D
Injection Time: 12/29/22 12:35
Method: SW846 8260D
Analyst approved: 12/31/22 09:29 Adelard Lefebvre
Supervisor approved: 01/03/23 11:45 Karen Watson

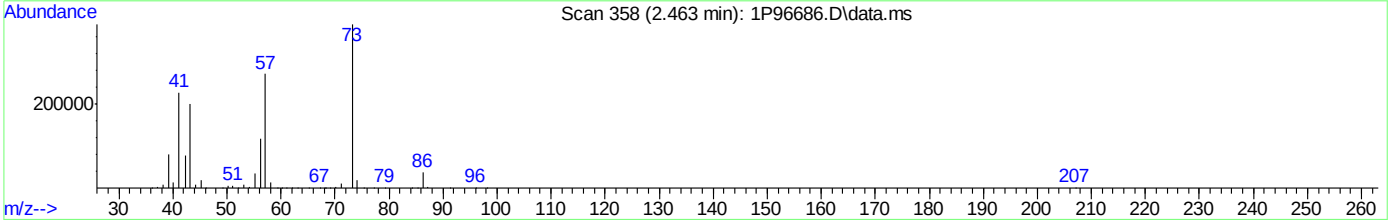
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		2.46	Overlapping peak
Acetonitrile	75-05-8		2.55	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Split peak
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

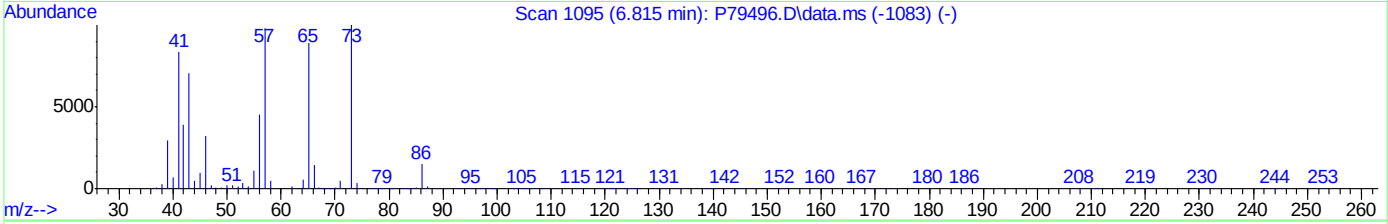
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96686.D
Acq On : 29 Dec 2022 12:35 pm
Operator : joannel
Sample : IC3655-4
Misc : MS52806,V1P3655,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 13:13:24 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96686.D\data.ms

(22) Hexane

2.463min (-0.002) 21.30ug/L

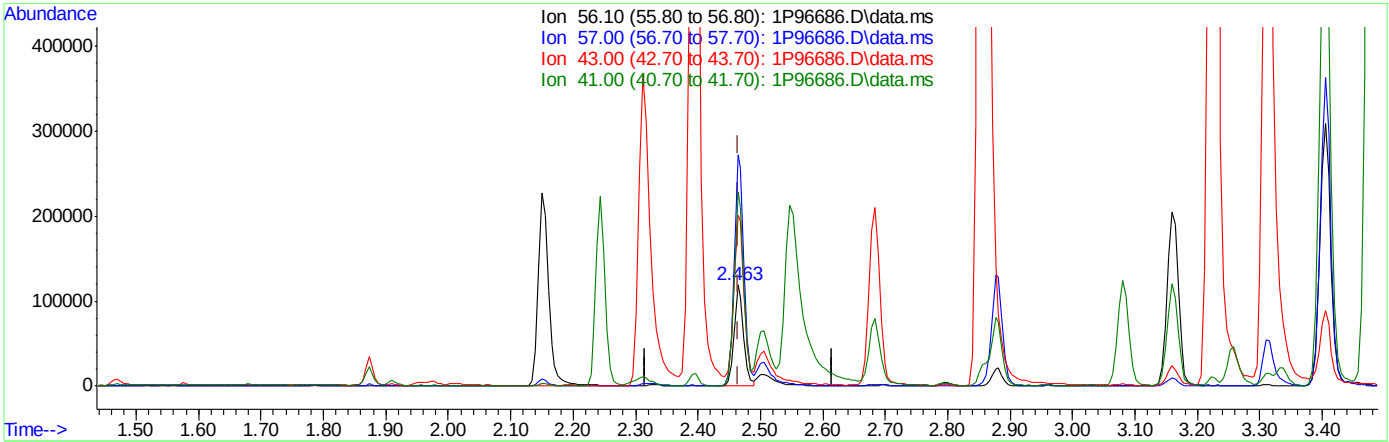
response 121706

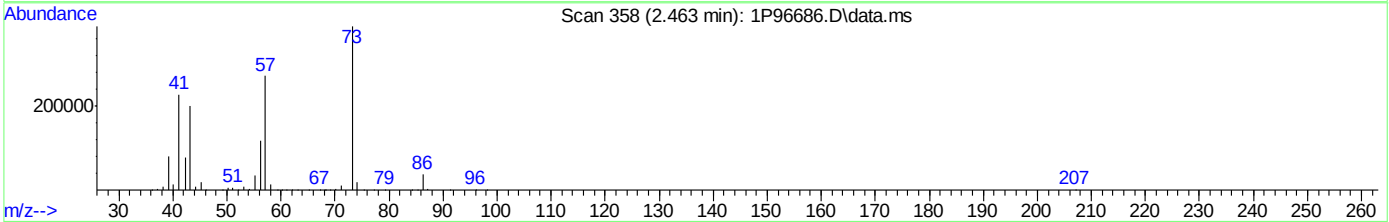
Ion	Exp%	Act%
56.10	100	100
57.00	250.90	229.29#
43.00	172.00	158.17
41.00	198.00	191.37

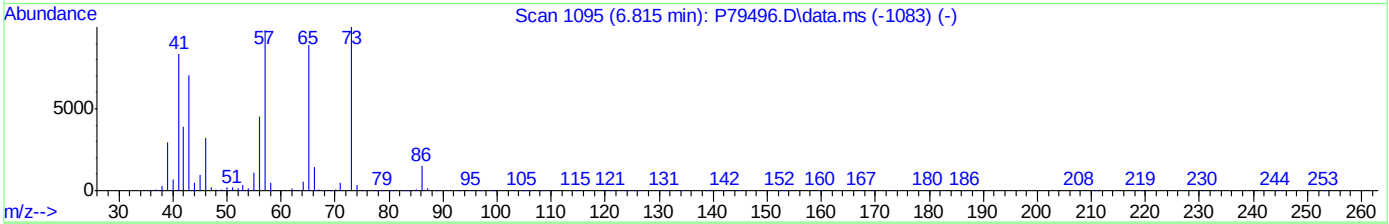
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96686.D
Acq On : 29 Dec 2022 12:35 pm
Operator : joannel
Sample : IC3655-4
Misc : MS52806,V1P3655,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 13:13:24 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96686.D\data.ms

(22) Hexane

2.463min (-0.002) 22.87ug/L m

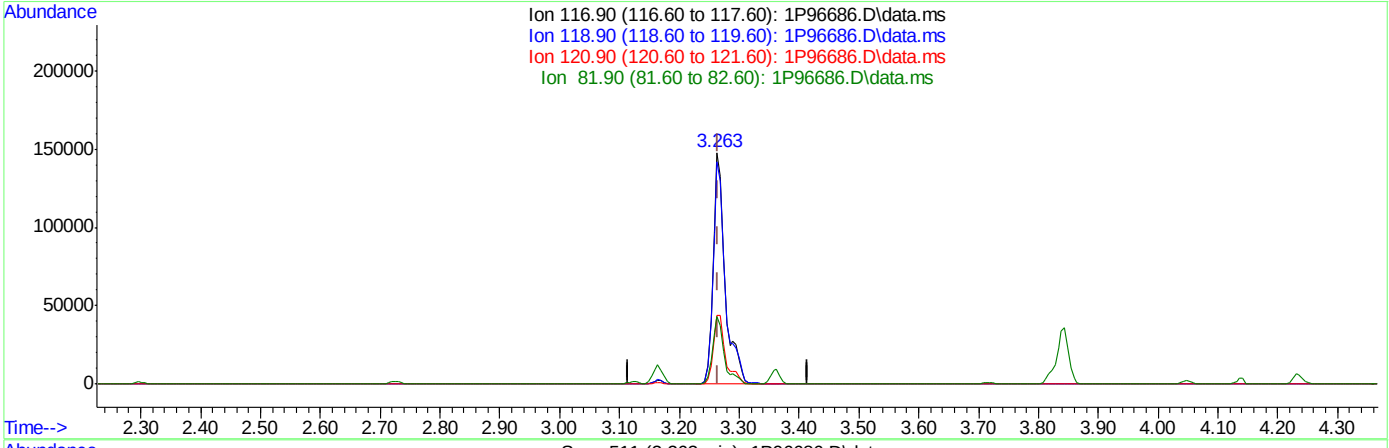
response 130700

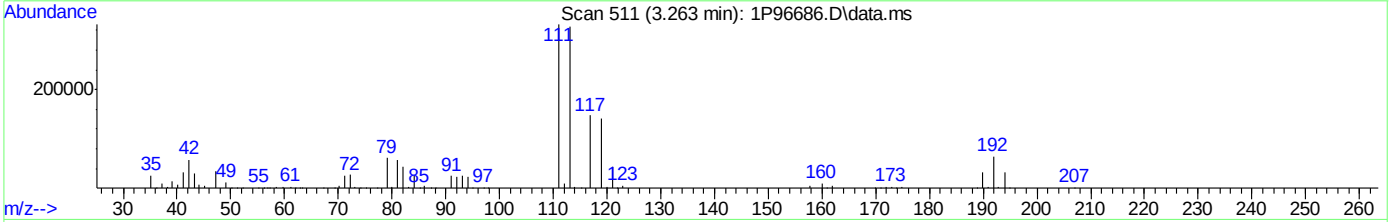
Ion	Exp%	Act%
56.10	100	100
57.00	250.90	228.81#
43.00	172.00	168.34
41.00	198.00	191.86

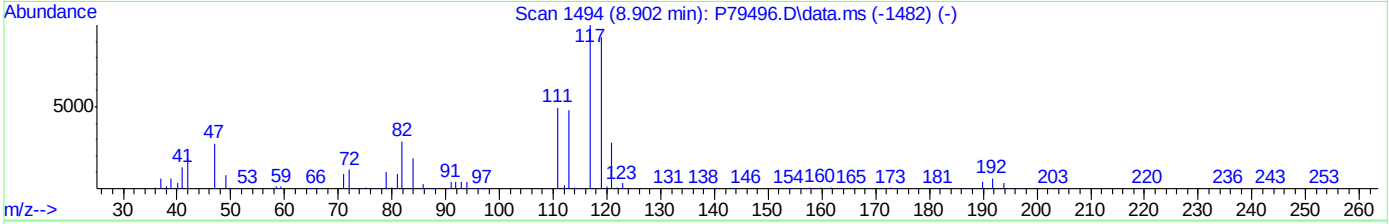
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96686.D
Acq On : 29 Dec 2022 12:35 pm
Operator : joannel
Sample : IC3655-4
Misc : MS52806,V1P3655,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 13:13:24 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96686.D\data.ms

(40) Carbon Tetrachloride ( )

3.263min (-0.002) 20.05ug/L

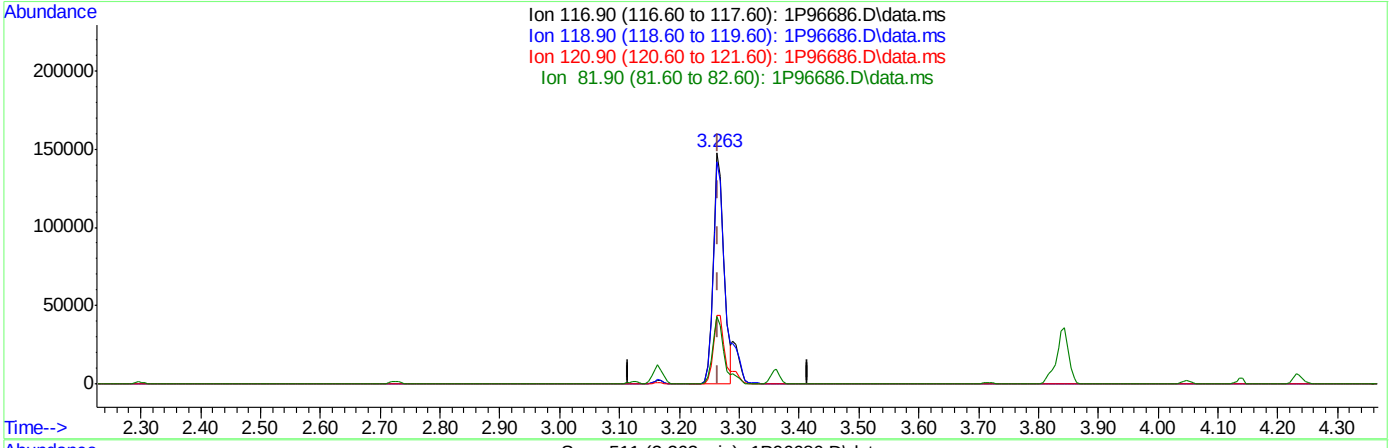
response 206969

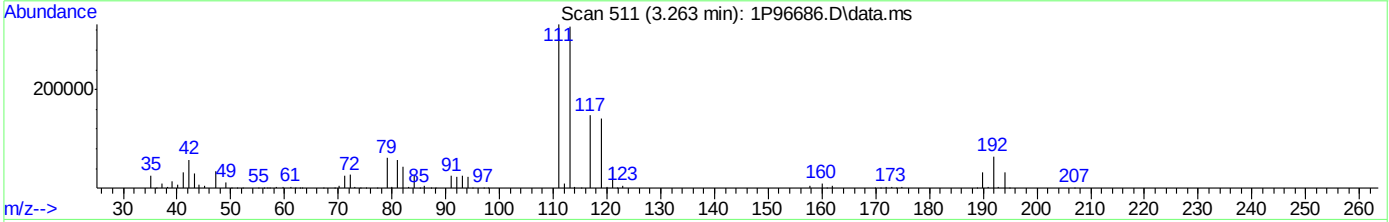
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	96.19
120.90	30.60	29.50
81.90	24.90	29.01

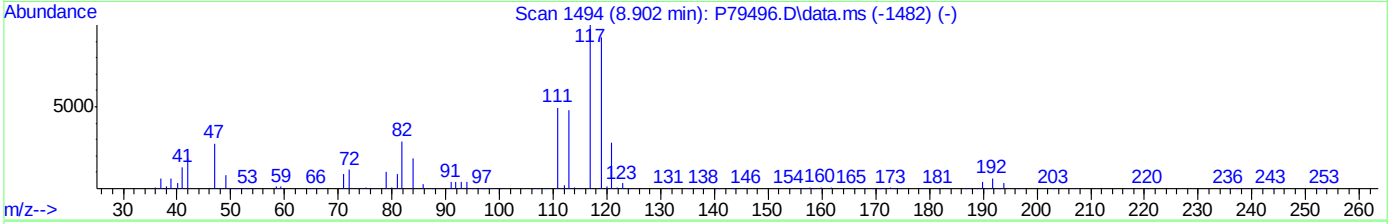
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96686.D
Acq On : 29 Dec 2022 12:35 pm
Operator : joannel
Sample : IC3655-4
Misc : MS52806,V1P3655,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 13:13:24 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96686.D\data.ms

(40) Carbon Tetrachloride ( )

3.263min (-0.002) 17.59ug/L m

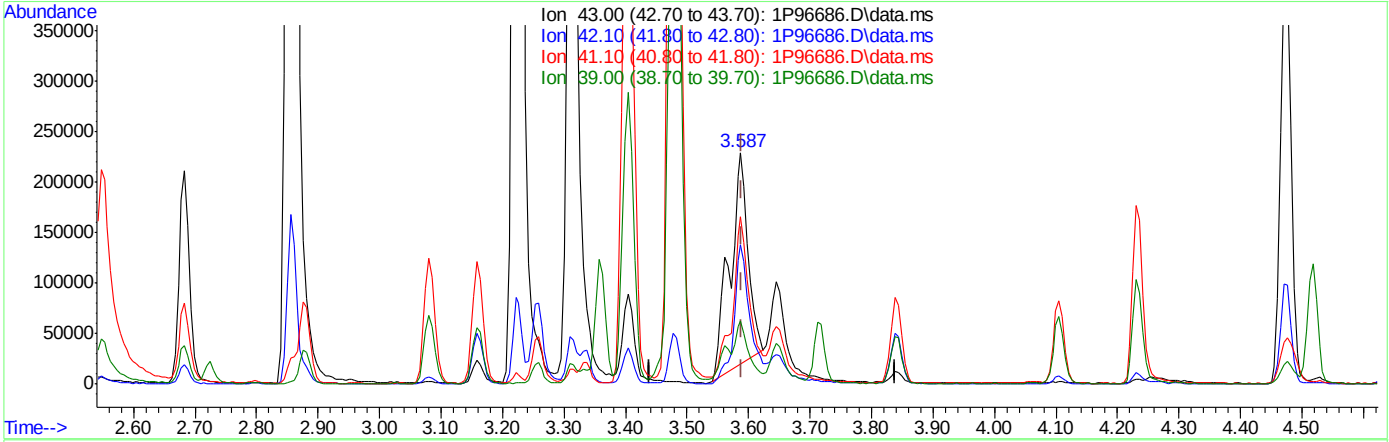
response 181558

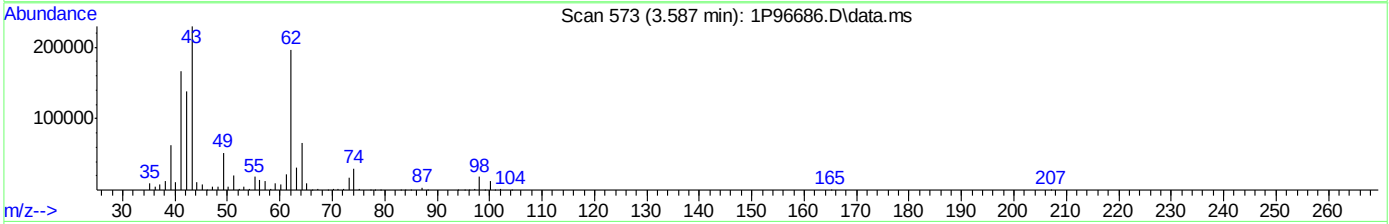
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	96.19
120.90	30.60	29.50
81.90	24.90	29.17

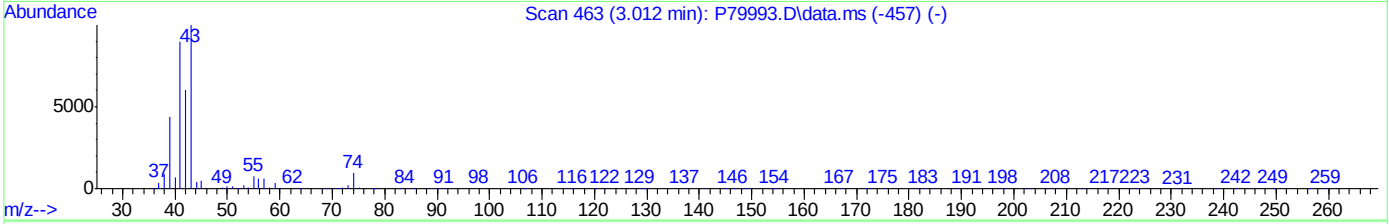
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96686.D
Acq On : 29 Dec 2022 12:35 pm
Operator : joannel
Sample : IC3655-4
Misc : MS52806,V1P3655,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 13:13:24 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96686.D\data.ms

(50) Isobutyl alcohol

3.587min (-0.003) 524.62ug/L

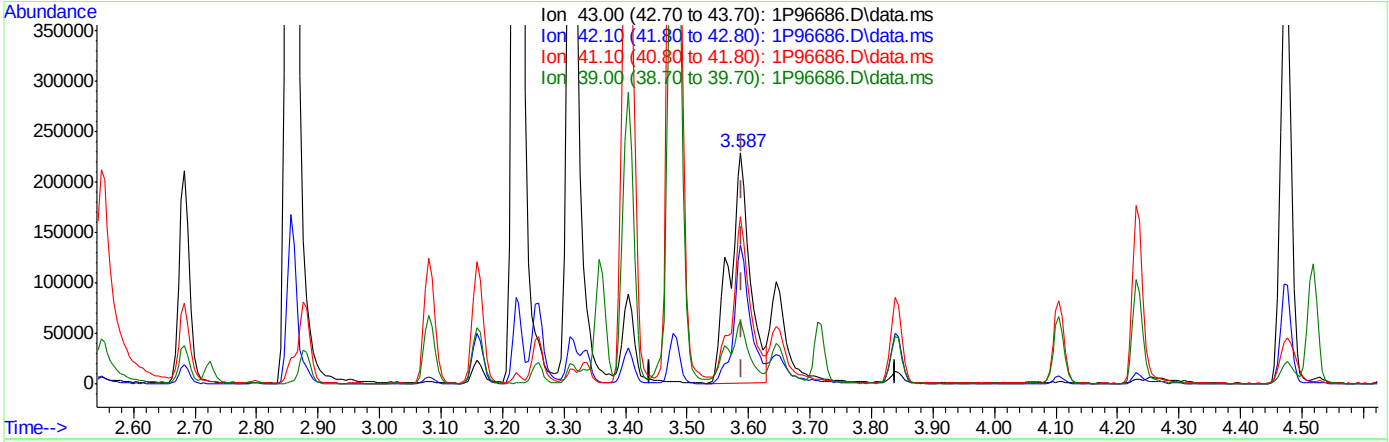
response 436410

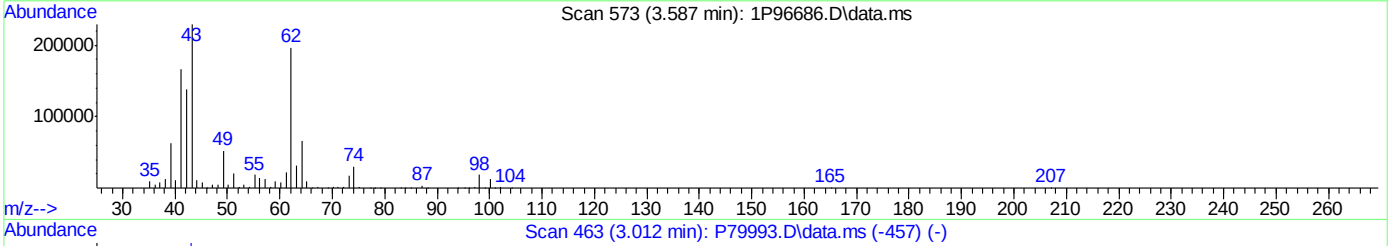
Ion	Exp%	Act%
43.00	100	100
42.10	58.50	60.62
41.10	71.10	70.33
39.00	23.40	25.08

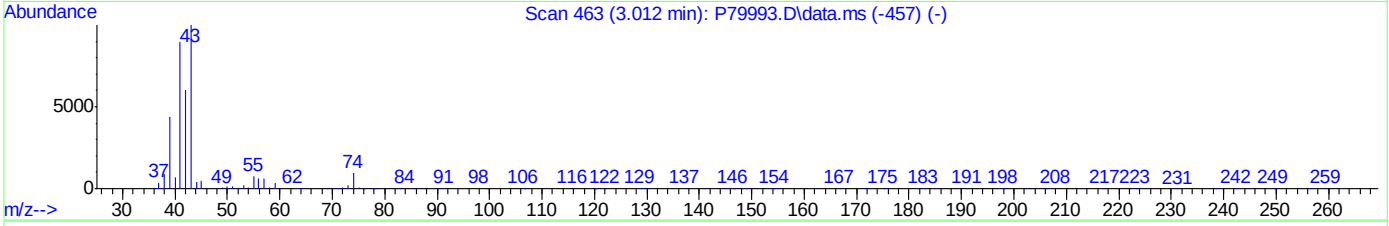
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96686.D
Acq On : 29 Dec 2022 12:35 pm
Operator : joannel
Sample : IC3655-4
Misc : MS52806,V1P3655,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 13:13:24 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96686.D\data.ms

(50) Isobutyl alcohol

3.587min (-0.003) 643.31ug/L m

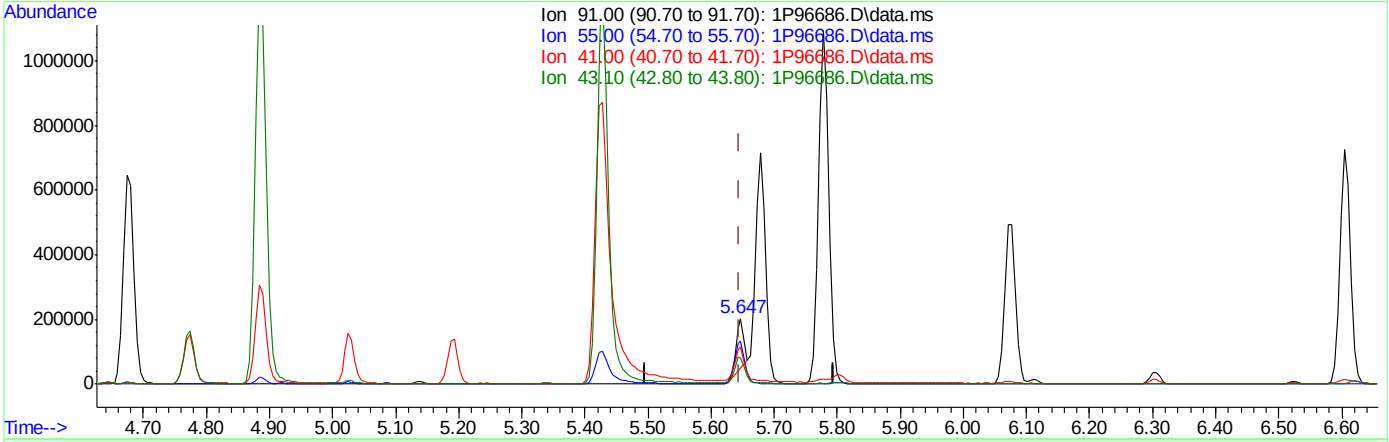
response 535148

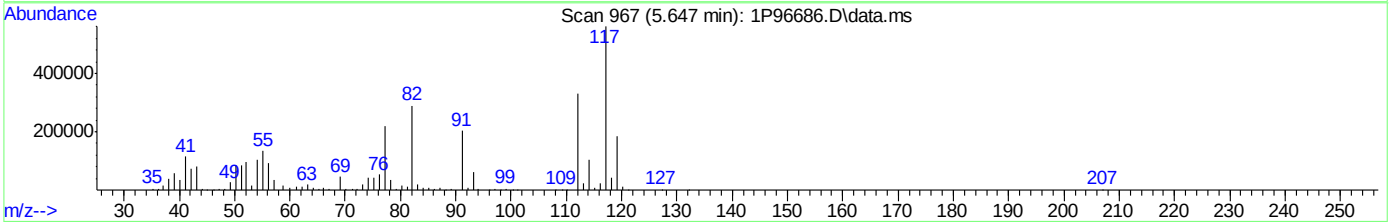
Ion	Exp%	Act%
43.00	100	100
42.10	58.50	60.21
41.10	71.10	72.41
39.00	23.40	27.37

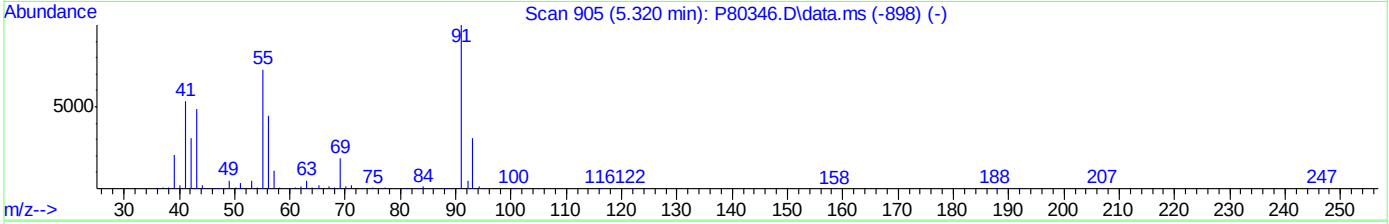
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96686.D
Acq On : 29 Dec 2022 12:35 pm
Operator : joannel
Sample : IC3655-4
Misc : MS52806,V1P3655,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 13:13:24 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96686.D\data.ms

(76) 1-Chlorohexane

5.647min (+0.002) 15.25ug/L

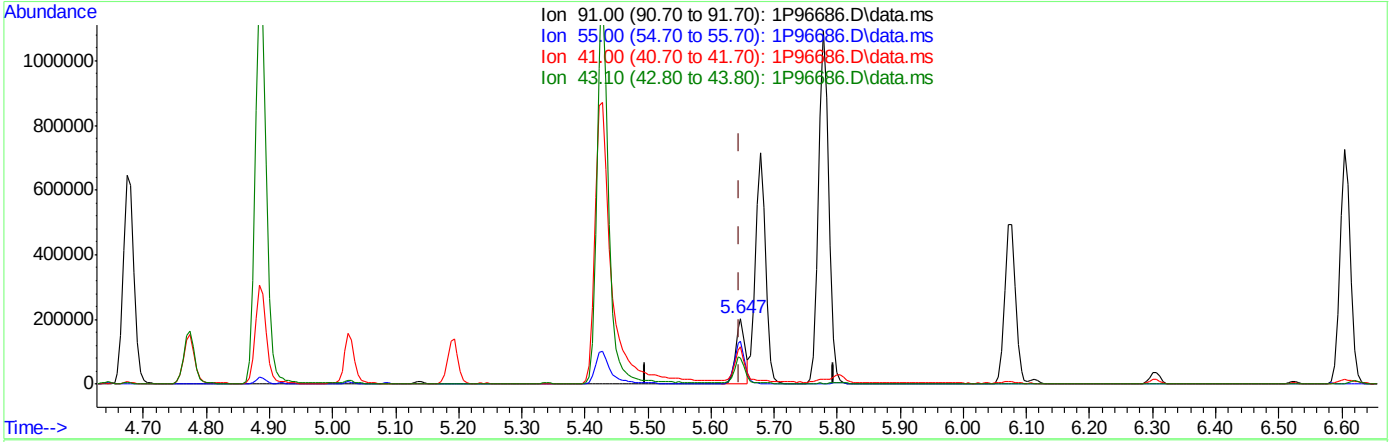
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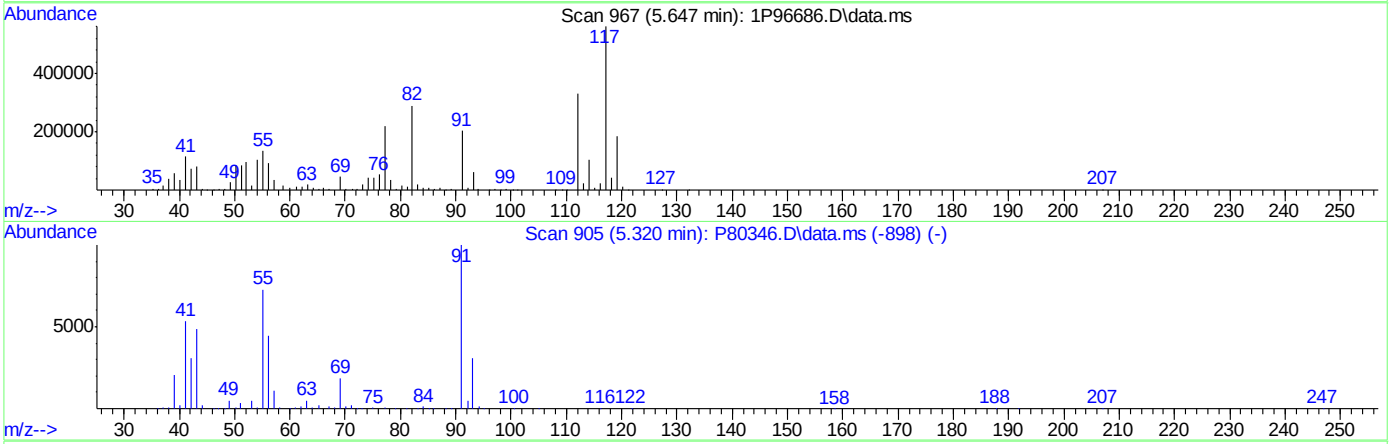
Ion	Exp%	Act%
91.00	100	100
55.00	71.50	63.31
41.00	56.40	50.65
43.10	47.80	37.59

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96686.D
Acq On : 29 Dec 2022 12:35 pm
Operator : joannel
Sample : IC3655-4
Misc : MS52806,V1P3655,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 13:13:24 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96686.D\data.ms

(76) 1-Chlorohexane

5.647min (+0.002) 22.74ug/L m

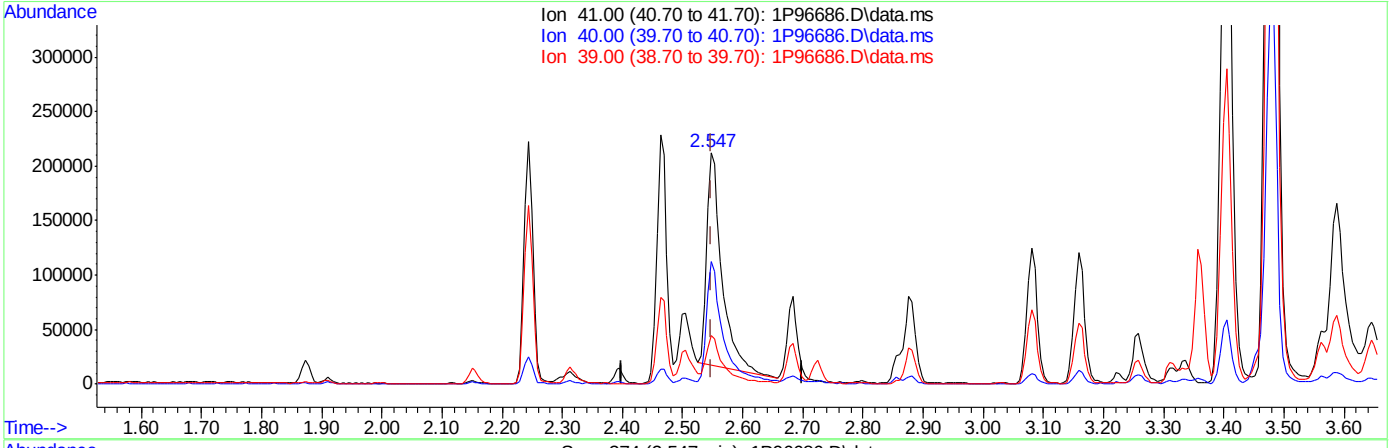
response 220543

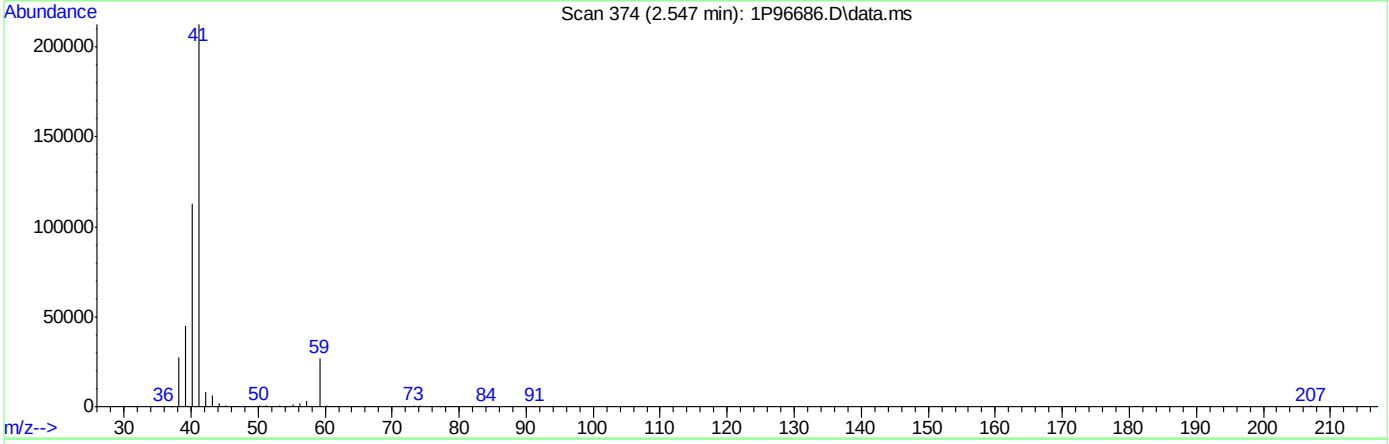
Ion	Exp%	Act%
91.00	100	100
55.00	71.50	66.23
41.00	56.40	56.77
43.10	47.80	40.34

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96686.D
Acq On : 29 Dec 2022 12:35 pm
Operator : joannel
Sample : IC3655-4
Misc : MS52806,V1P3655,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 13:22:36 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96686.D\data.ms

(25) Acetonitrile

2.547min (-0.002) 192.65ug/L

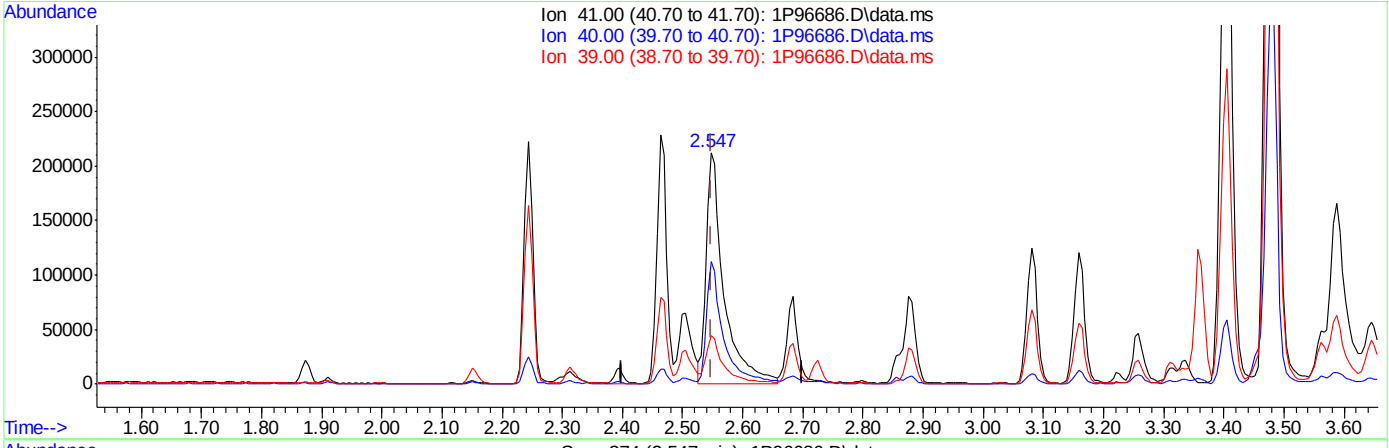
response 332628

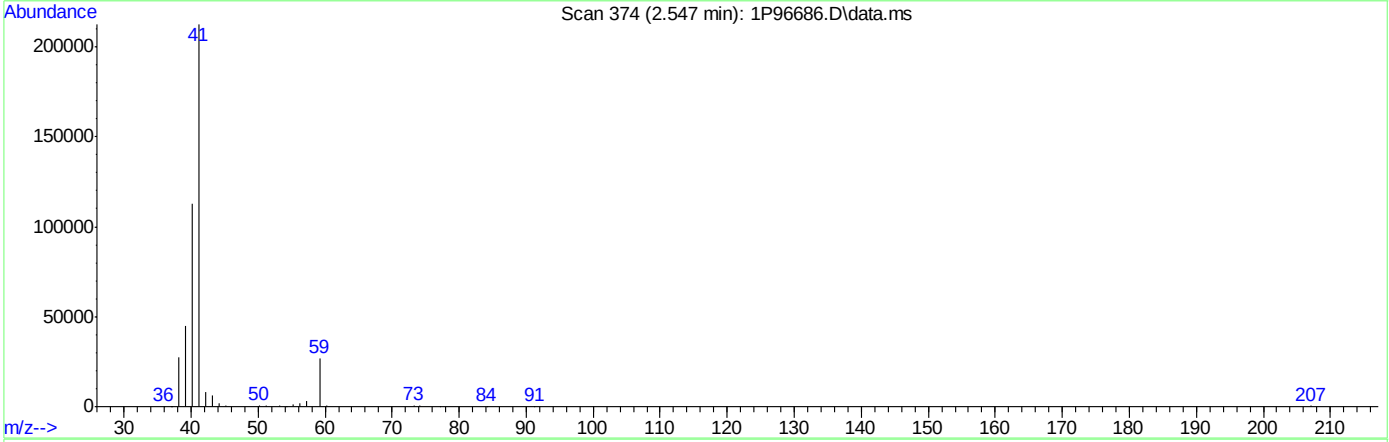
Ion	Exp%	Act%
41.00	100	100
40.00	51.50	53.40
39.00	19.80	20.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96686.D
Acq On : 29 Dec 2022 12:35 pm
Operator : joannel
Sample : IC3655-4
Misc : MS52806,V1P3655,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 13:22:36 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96686.D\data.ms

(25) Acetonitrile

2.547min (-0.002) 257.48ug/L m

response 431947

Ion	Exp%	Act%
41.00	100	100
40.00	51.50	53.07
39.00	19.80	21.17
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/03/23 11:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96690.D
Acq On : 29 Dec 2022 1:38 pm
Operator : joannel
Sample : ICC3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 29 14:24:47 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.717	96	1859671	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.641	117	1245530	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	547598	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.257	113	410097	49.02	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.04%			
49) 1,2-Dichloroethane-d4	3.545	65	524342	46.35	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 92.70%			
63) Toluene-d8	4.643	98	1749445	48.76	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.52%			
86) 4-Bromofluorobenzene	6.493	174	455782	51.30	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.60%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.135	85	240447	27.53	ug/L	95
3) Chloromethane	1.250	50	253290	30.33	ug/L	99
4) 1,3-butadiene	1.312	39	156246	25.42	ug/L	94
5) Vinyl Chloride	1.297	62	251966	33.78	ug/L	96
6) Bromomethane	1.506	94	145745	55.57	ug/L	98
7) Chloroethane	1.574	64	94826	34.87	ug/L	98
8) Trichlorofluoromethane	1.668	101	344272	41.40	ug/L	98
9) Ethyl Ether	1.872	59	251822	46.11	ug/L	92
10) Ethanol	1.956	45	114053	634.80	ug/L	100
11) 1,2-Dichlorotrifluoroe...	1.971	67	303562	35.71	ug/L	99
12) 1,1-Dichloroethene	1.976	61	383308	35.76	ug/L	99
13) Freon 113	2.008	101	221677	32.42	ug/L	98
14) Carbon Disulfide	1.992	76	666715	35.84	ug/L	96
15) Iodomethane	2.055	142	247843	50.97	ug/L	98
16) Acrolein	2.149	56	447817	192.61	ug/L	98
17) Allyl chloride	2.243	41	363125	33.33	ug/L	96
18) Methylene Chloride	2.295	49	323883	35.74	ug/L	98
19) Acetone	2.311	43	809707	184.58	ug/L	99
20) Methyl acetate	2.389	43	1861122	194.26	ug/L	98
21) trans-1,2-Dichloroethene	2.395	61	381815	35.95	ug/L	95
22) Hexane	2.463	56	201341m	34.82	ug/L	
23) Methyl Tert Butyl Ether	2.463	73	907068	36.88	ug/L	83
24) Tert Butyl Alcohol	2.504	59	819370	352.99	ug/L	97
25) Acetonitrile	2.546	41	723614m	471.74	ug/L	
26) Di-isopropyl ether	2.682	45	877425	38.49	ug/L	98
27) Chloroprene	2.724	53	1230185	36.91	ug/L	97
28) 1,1-Dichloroethane	2.724	63	492904	36.51	ug/L	97
29) Acrylonitrile	2.724	52	811031	189.32	ug/L	97
30) ETBE	2.876	59	868509	37.08	ug/L	99
31) Vinyl acetate	2.855	43	3224906	199.30	ug/L	98
32) cis-1,2-Dichloroethene	3.017	96	301249	37.89	ug/L	98
33) 2,2-Dichloropropane	3.080	77	436267	34.66	ug/L	99
34) Bromochloromethane	3.121	128	127286	39.18	ug/L	91
35) Cyclohexane	3.158	56	427655	37.45	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96690.D
Acq On : 29 Dec 2022 1:38 pm
Operator : joannel
Sample : ICC3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 29 14:24:47 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.163	83	511618	36.46	ug/L		99
37) Ethyl acetate	3.221	43	2376090	198.79	ug/L		100
38) Tetrahydrofuran	3.252	42	190007	39.72	ug/L		98
40) Carbon Tetrachloride	3.263	117	331482m	31.73	ug/L		
41) 1,1,1-Trichloroethane	3.289	97	431496	34.62	ug/L		98
42) 2-Butanone	3.310	43	1468262	187.47	ug/L		99
43) 1,1-Dichloropropene	3.357	75	400911	37.54	ug/L		99
44) tert-Butyl formate	3.404	59	938720	140.86	ug/L	#	86
45) Propionitrile	3.456	54	781739	346.38	ug/L		98
46) Methacrylonitrile	3.477	41	2682381	384.05	ug/L		98
47) Benzene	3.487	78	1204857	39.62	ug/L		92
48) TAME	3.566	73	846397	37.23	ug/L		99
50) Isobutyl alcohol	3.587	43	858323m	1019.55	ug/L		
51) 1,2-Dichloroethane	3.587	62	384854	34.76	ug/L		99
52) Tert Amyl Alcohol	3.649	59	674208	367.72	ug/L		97
53) Trichloroethene	3.822	95	298565	36.85	ug/L		91
54) Methylcyclohexane	3.838	83	407405	36.27	ug/L		98
55) Dibromomethane	4.047	93	173207	38.77	ug/L		92
56) 1,2-Dichloropropane	4.104	63	282182	37.15	ug/L		98
57) Bromodichloromethane	4.141	83	335458	35.43	ug/L		98
58) Methyl methacrylate	4.230	41	338272	40.79	ug/L		95
59) 1,4-Dioxane	4.261	88	124995	715.66	ug/L		96
60) 2-Chloroethyl vinyl ether	4.475	63	1159526	211.05	ug/L		98
61) cis-1,3-Dichloropropene	4.517	75	443142	37.55	ug/L		96
64) Toluene	4.674	91	1246130	38.03	ug/L		98
65) 2-Nitropropane	4.773	41	366087	114.84	ug/L		90
66) 4-Methyl-2-pentanone	4.883	43	2421994	185.21	ug/L		98
67) trans-1,3-Dichloropropene	4.915	75	390790	37.75	ug/L		89
68) Tetrachloroethene	4.930	166	294762	39.50	ug/L		99
69) Ethyl methacrylate	5.024	69	439835	41.08	ug/L		92
70) 1,1,2-Trichloroethane	5.014	83	210056	38.29	ug/L		91
71) Dibromochloromethane	5.139	129	223540	35.18	ug/L		96
72) 1,3-Dichloropropane	5.192	76	467239	38.20	ug/L		98
73) 1,2-Dibromoethane	5.291	107	264070	39.74	ug/L		98
74) 3,3-dimethyl-1-butanol	5.427	57	3773138	2014.53	ug/L		99
75) 2-hexanone	5.427	43	2514516	202.57	ug/L		93
76) 1-Chlorohexane	5.646	91	356097m	36.17	ug/L		
77) Ethylbenzene	5.678	91	1314114	38.42	ug/L		98
78) Chlorobenzene	5.652	112	710497	38.86	ug/L		98
79) 1,1,1,2-Tetrachloroethane	5.694	131	229730	35.15	ug/L		97
80) m,p-Xylene	5.777	91	2033721	78.87	ug/L		95
81) o-Xylene	6.075	91	995401	39.61	ug/L		97
82) Styrene	6.107	104	802121	41.18	ug/L		97
83) Bromoform	6.112	173	127357	31.76	ug/L		96
84) Isopropylbenzene	6.305	105	1205675	39.77	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.525	53	132988	36.89	ug/L		86
88) n-Propylbenzene	6.603	91	1360779	40.26	ug/L		99
89) Bromobenzene	6.567	156	281655	39.76	ug/L		92
90) 1,1,2,2-Tetrachloroethane	6.624	83	364084	37.71	ug/L		99
91) 1,3,5-Trimethylbenzene	6.755	105	942998	42.01	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96690.D
Acq On : 29 Dec 2022 1:38 pm
Operator : joannel
Sample : ICC3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 29 14:24:47 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

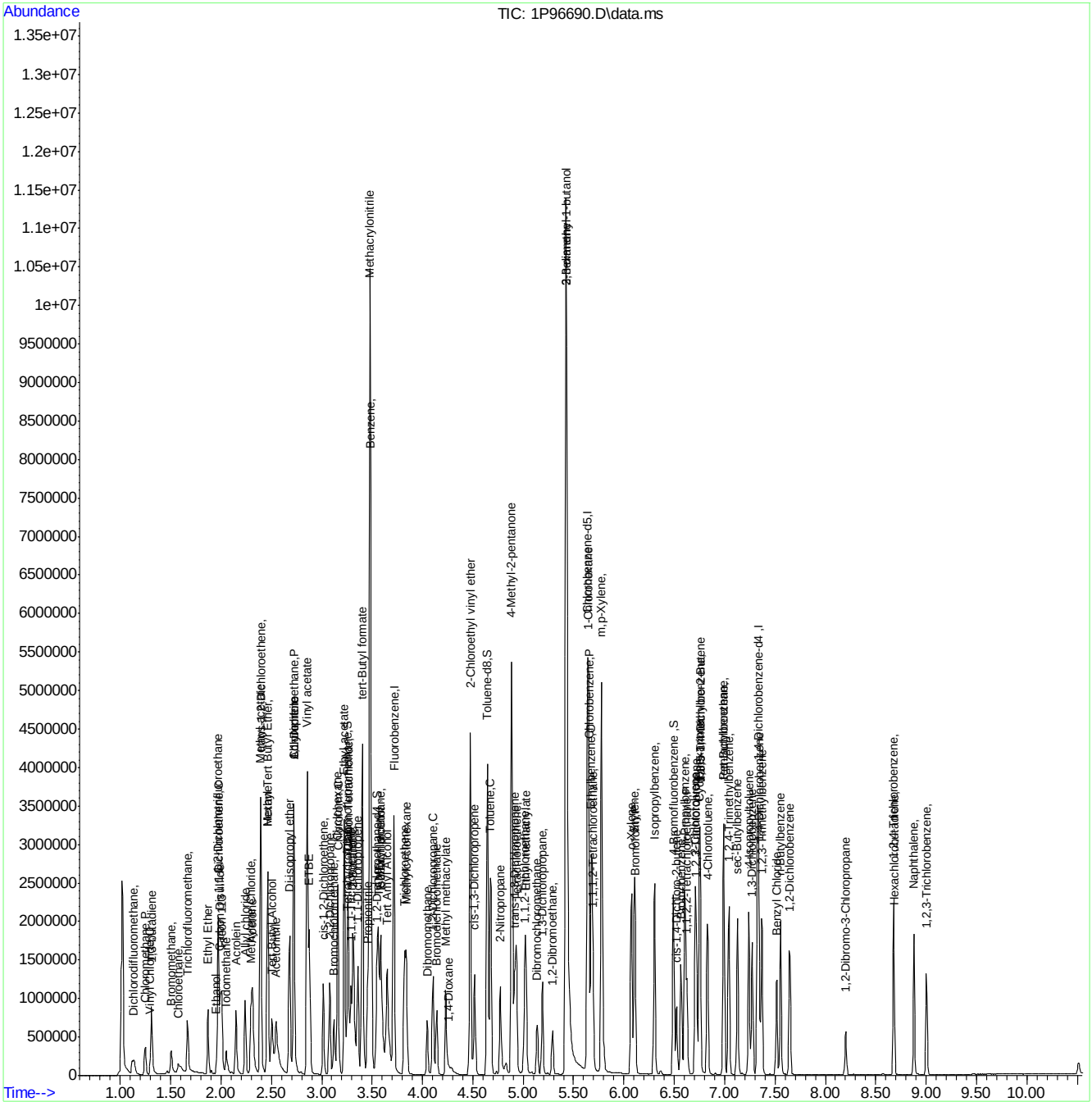
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 2-Chlorotoluene	6.708	91	796509	39.27	ug/L		99
93) trans-1,4-Dichloro-2-B...	6.755	53	138008	39.58	ug/L		97
94) 1,2,3-Trichloropropane	6.718	110	133781	38.63	ug/L		95
95) Cyclohexanone	6.750	55	107815	196.09	ug/L		92
96) 4-Chlorotoluene	6.828	91	828167	38.67	ug/L		98
97) tert-Butylbenzene	6.990	91	516886	40.86	ug/L		95
99) 1,2,4-Trimethylbenzene	7.042	105	884518	39.28	ug/L		98
100) Pentachloroethane	6.990	167	129872	34.36	ug/L	#	78
101) sec-Butylbenzene	7.126	105	1045704	42.81	ug/L		98
102) 4-Isopropyltoluene	7.241	119	900120	39.77	ug/L		98
103) 1,3-Dichlorobenzene	7.272	146	499404	40.04	ug/L		98
104) 1,2,3-Trimethylbenzene	7.367	105	864076	39.96	ug/L		99
105) 1,4-Dichlorobenzene	7.340	146	507204	39.16	ug/L		99
106) n-Butylbenzene	7.555	92	414059	37.30	ug/L		95
107) Benzyl Chloride	7.518	126	134624	35.96	ug/L		97
108) 1,2-Dichlorobenzene	7.649	146	467669	39.81	ug/L		97
109) 1,2-Dibromo-3-Chloropr...	8.198	75	90022	34.72	ug/L		84
110) Hexachlorobutadiene	8.684	225	95121	32.19	ug/L		99
111) 1,2,4-Trichlorobenzene	8.679	180	252295	38.23	ug/L		98
112) Naphthalene	8.877	128	923129	40.52	ug/L		98
113) 1,2,3-Trichlorobenzene	9.003	180	239772	38.03	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96690.D
Acq On : 29 Dec 2022 1:38 pm
Operator : joannel
Sample : ICC3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 29 14:24:47 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration



Manual Integration Approval Summary

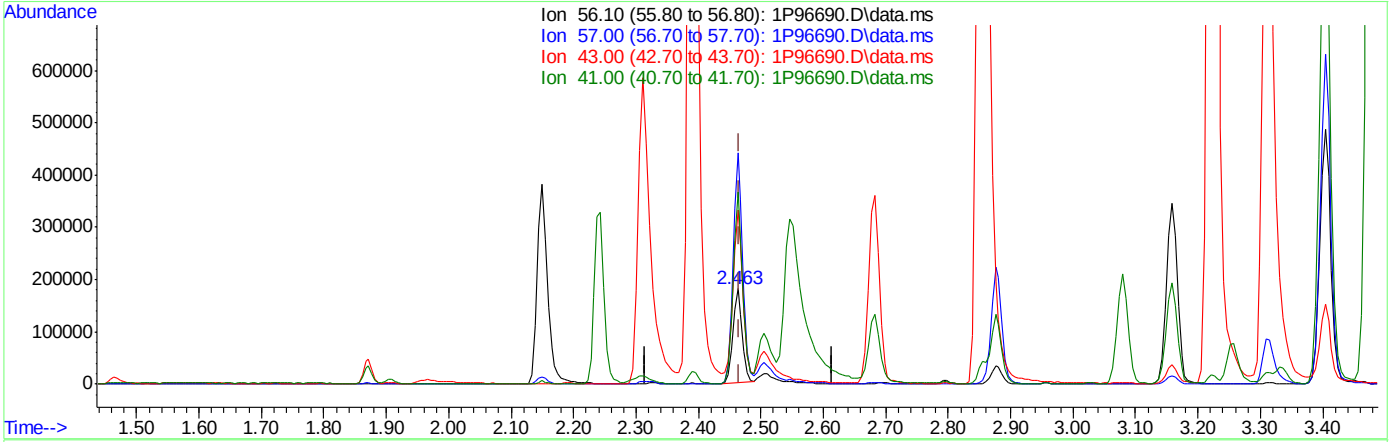
Sample Number: V1P3655-ICC3655 **Method:** SW846 8260D
Lab FileID: 1P96690.D **Analyst approved:** 12/31/22 09:29 Adelard Lefebvre
Injection Time: 12/29/22 13:38 **Supervisor approved:** 01/03/23 11:45 Karen Watson

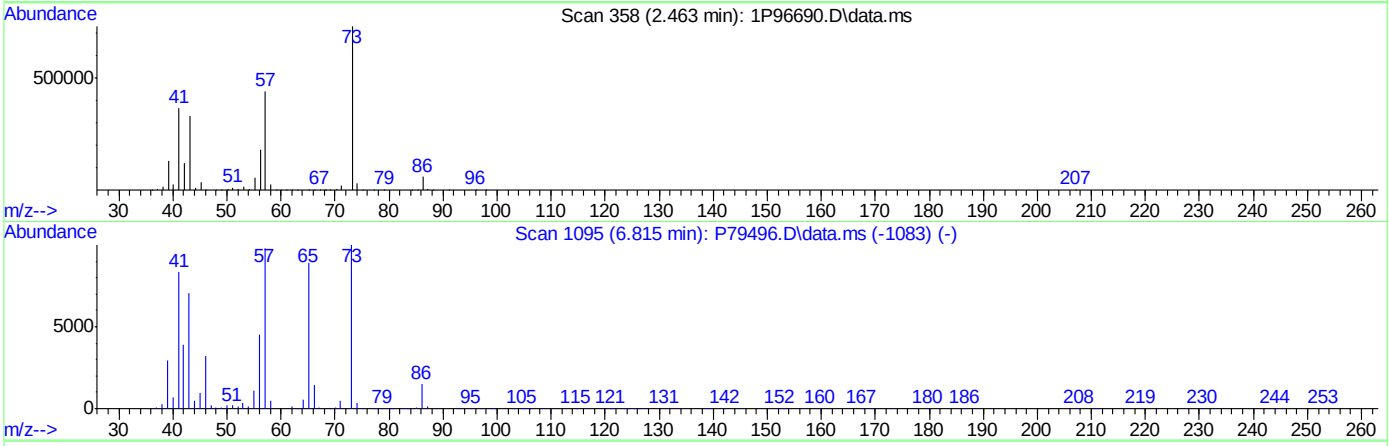
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		2.46	Overlapping peak
Acetonitrile	75-05-8		2.55	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Split peak
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96690.D
Acq On : 29 Dec 2022 1:38 pm
Operator : joannel
Sample : ICC3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 29 14:22:12 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96690.D\data.ms

(22) Hexane

2.463min (-0.003) 33.26ug/L

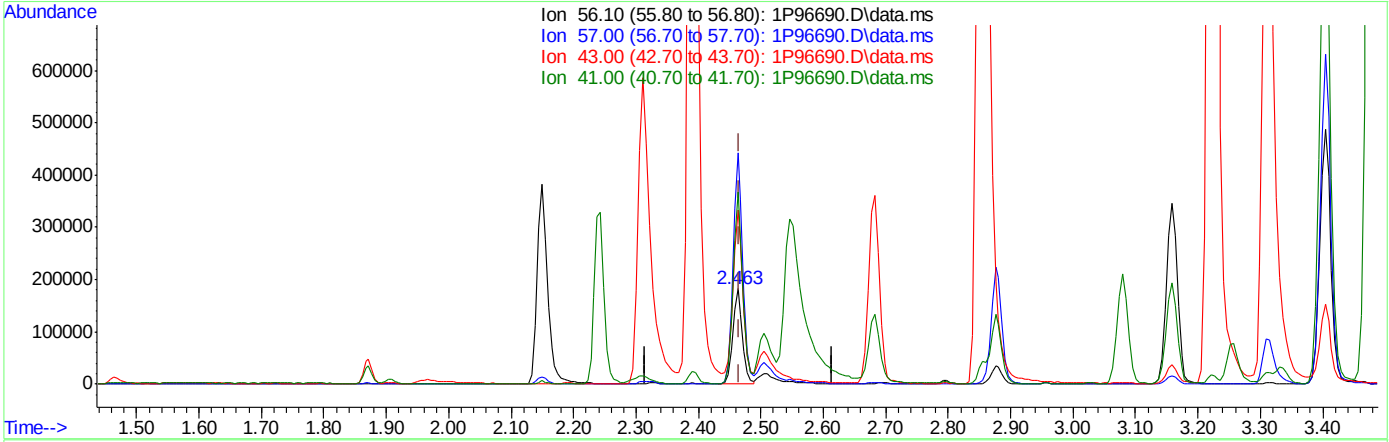
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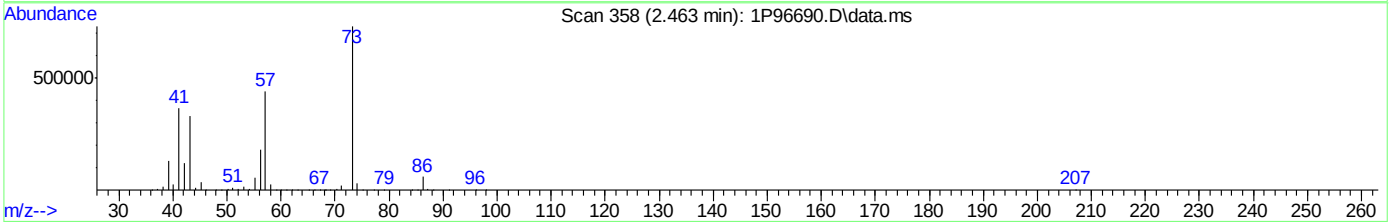
Ion	Exp%	Act%
56.10	100	100
57.00	250.90	242.80
43.00	172.00	171.66
41.00	198.00	200.27

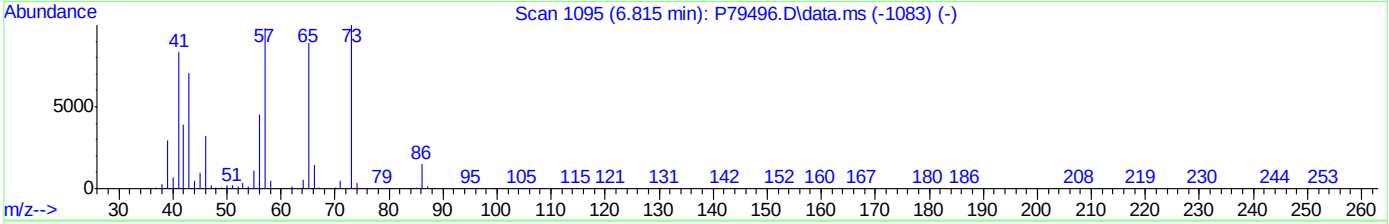
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96690.D
Acq On : 29 Dec 2022 1:38 pm
Operator : joannel
Sample : ICC3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 29 14:22:12 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96690.D\data.ms

(22) Hexane

2.463min (-0.003) 34.82ug/L m

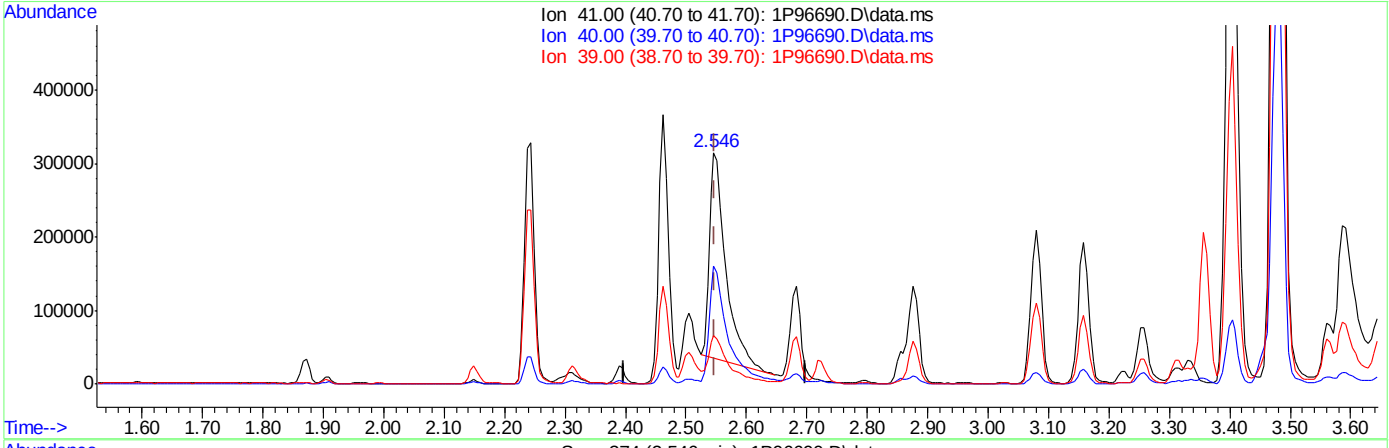
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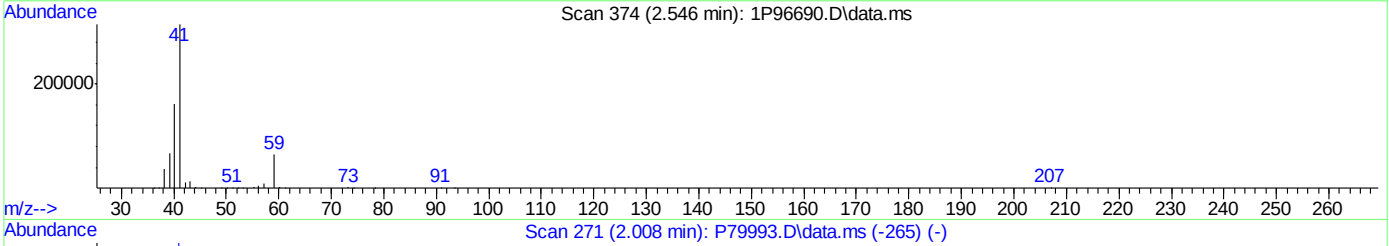
Ion	Exp%	Act%
56.10	100	100
57.00	250.90	242.27
43.00	172.00	181.84
41.00	198.00	200.31

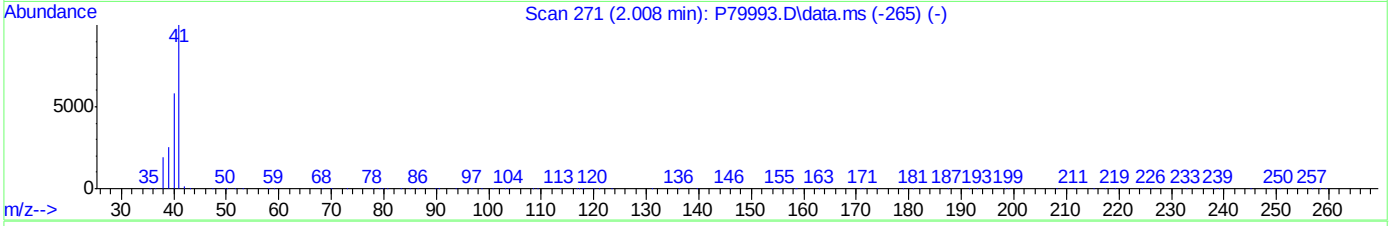
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96690.D
Acq On : 29 Dec 2022 1:38 pm
Operator : joannel
Sample : ICC3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 29 14:22:12 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96690.D\data.ms

(25) Acetonitrile

2.546min (-0.003) 318.43ug/L

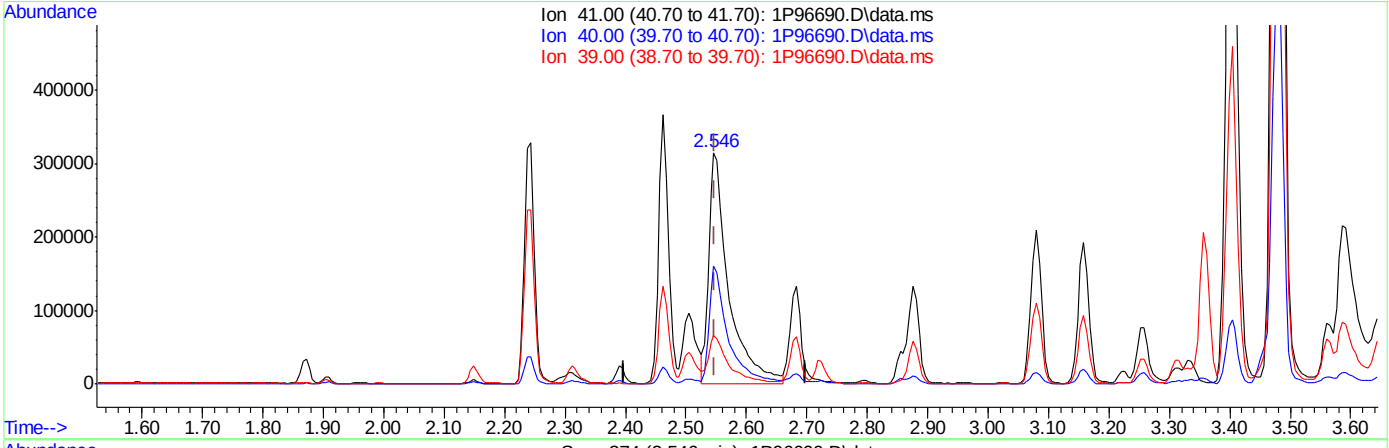
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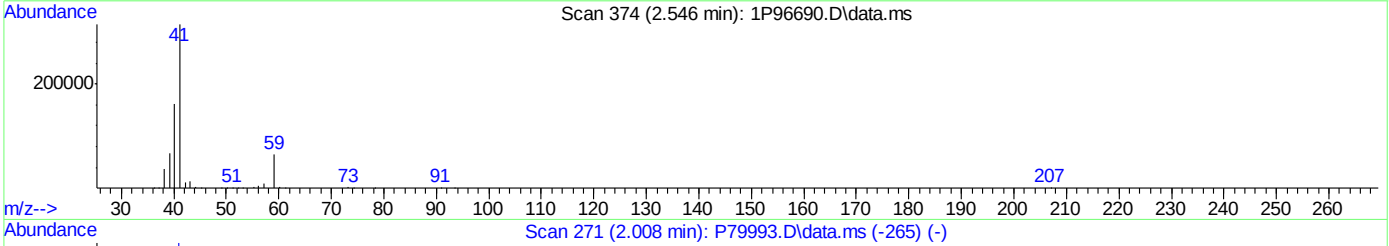
Ion	Exp%	Act%
41.00	100	100
40.00	51.50	51.87
39.00	19.80	20.97
0.00	0.00	0.00

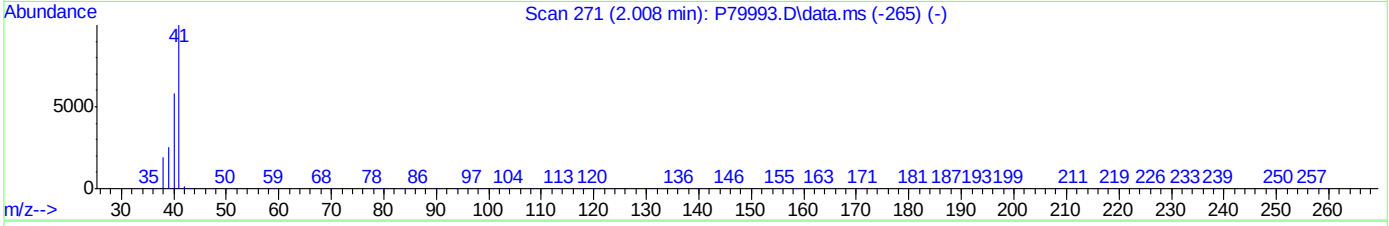
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96690.D
Acq On : 29 Dec 2022 1:38 pm
Operator : joannel
Sample : ICC3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 29 14:22:12 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96690.D\data.ms

(25) Acetonitrile

2.546min (-0.003) 471.74ug/L m

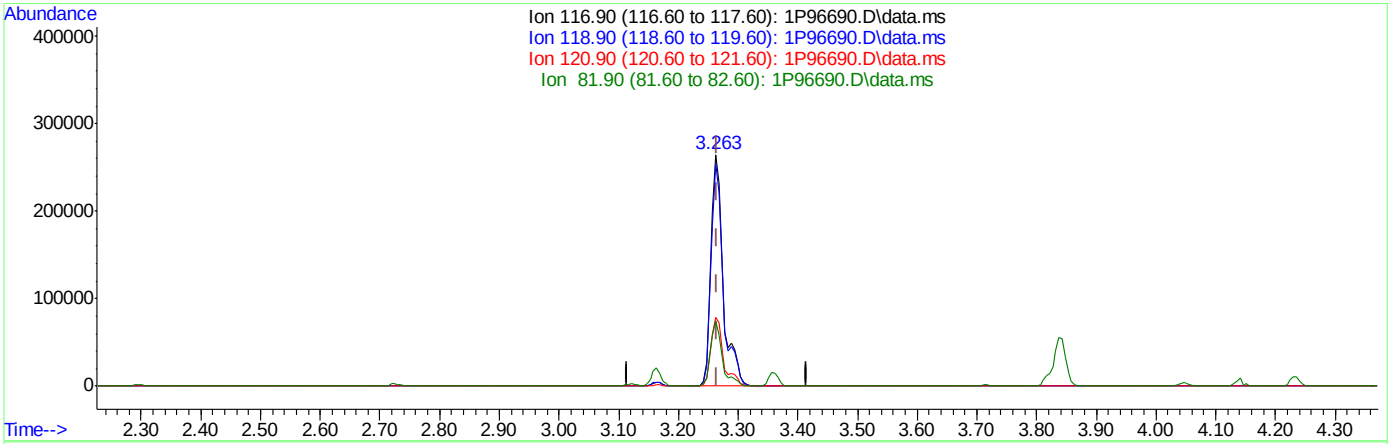
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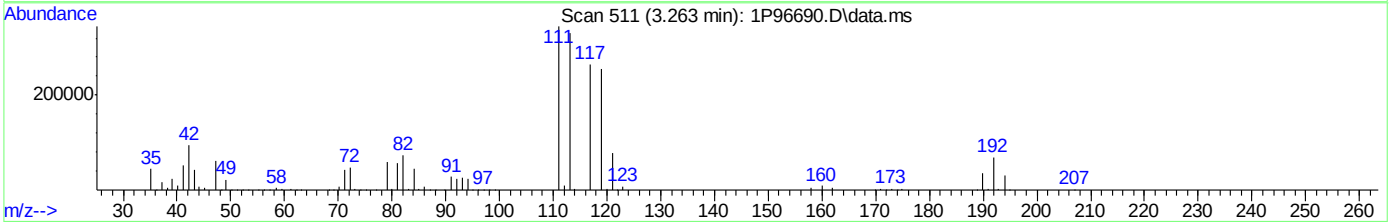
Ion	Exp%	Act%
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40.00	51.50	51.15
39.00	19.80	21.14
0.00	0.00	0.00

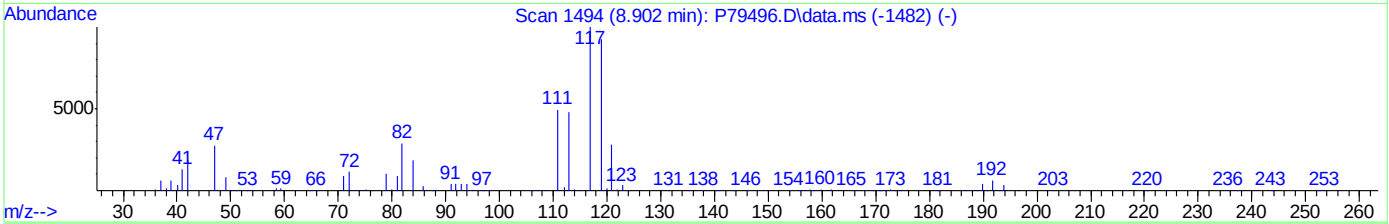
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96690.D
Acq On : 29 Dec 2022 1:38 pm
Operator : joannel
Sample : ICC3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 29 14:22:12 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96690.D\data.ms

(40) Carbon Tetrachloride ( )

3.263min (-0.003) 35.87ug/L

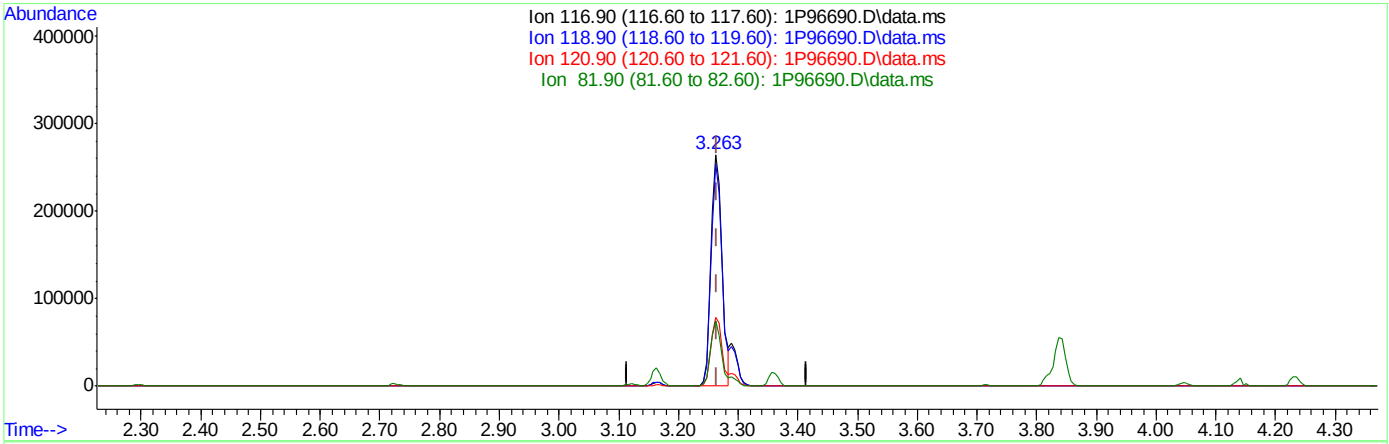
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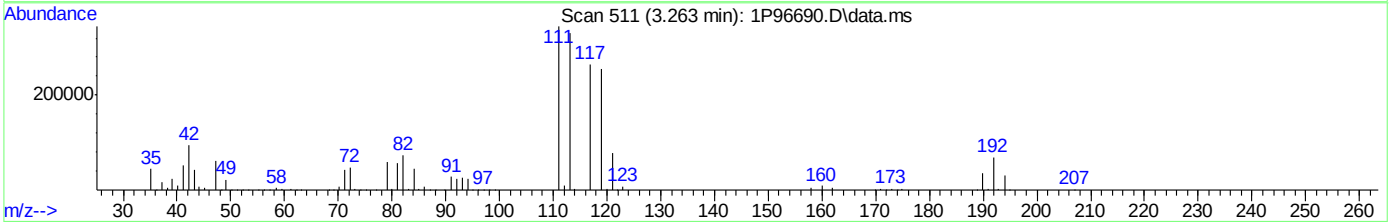
Ion	Exp%	Act%
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118.90	96.00	95.99
120.90	30.60	29.70
81.90	24.90	28.16

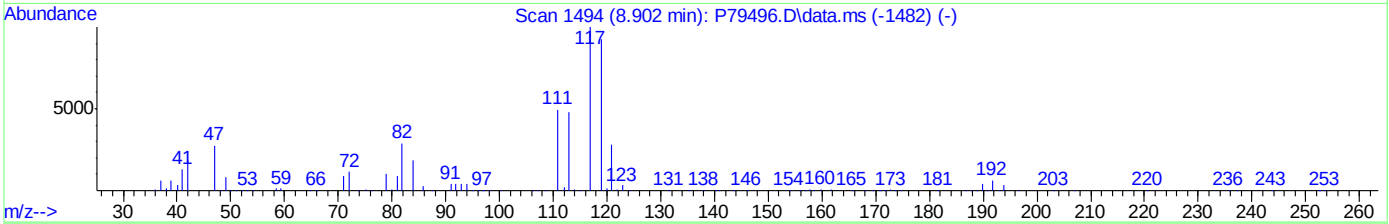
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96690.D
Acq On : 29 Dec 2022 1:38 pm
Operator : joannel
Sample : ICC3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 29 14:22:12 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96690.D\data.ms

(40) Carbon Tetrachloride ( )

3.263min (-0.003) 31.73ug/L m

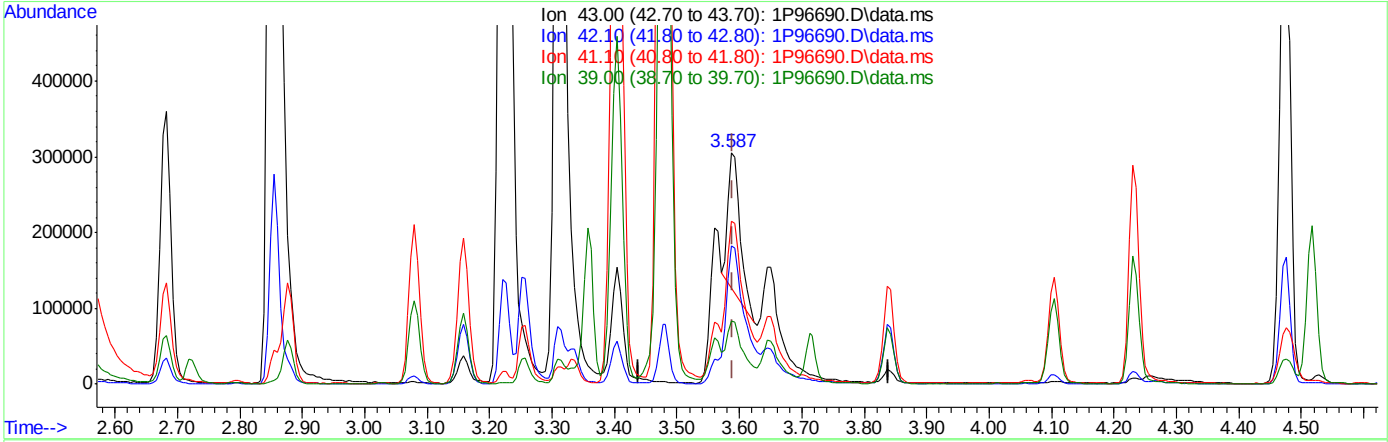
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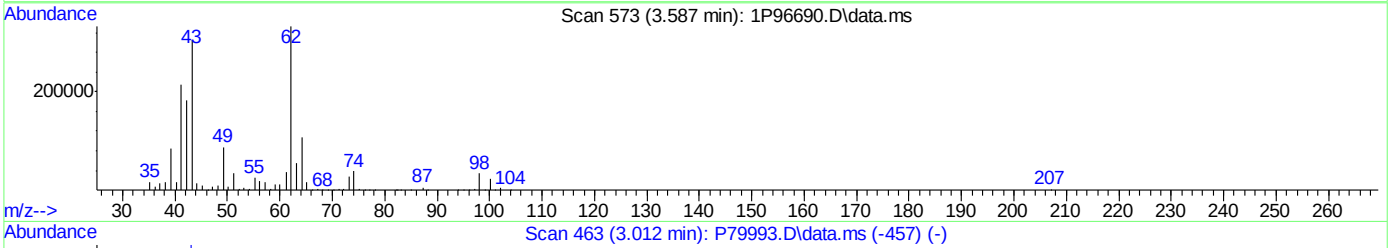
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	95.99
120.90	30.60	29.70
81.90	24.90	28.16

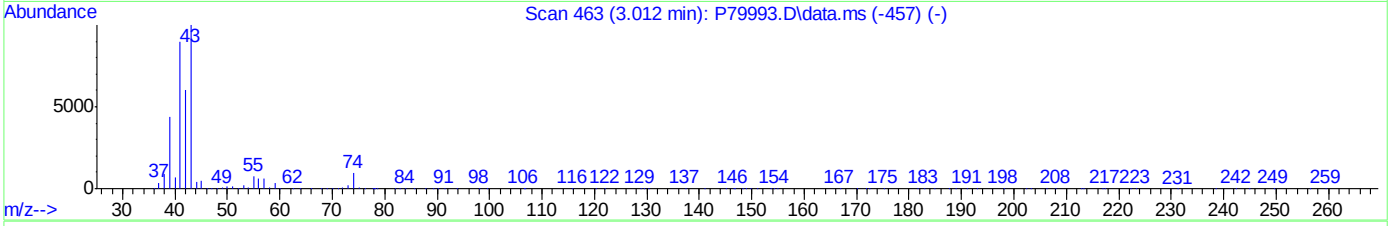
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96690.D
Acq On : 29 Dec 2022 1:38 pm
Operator : joannel
Sample : ICC3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 29 14:22:12 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96690.D\data.ms

(50) Isobutyl alcohol

3.587min (-0.003) 279.50ug/L

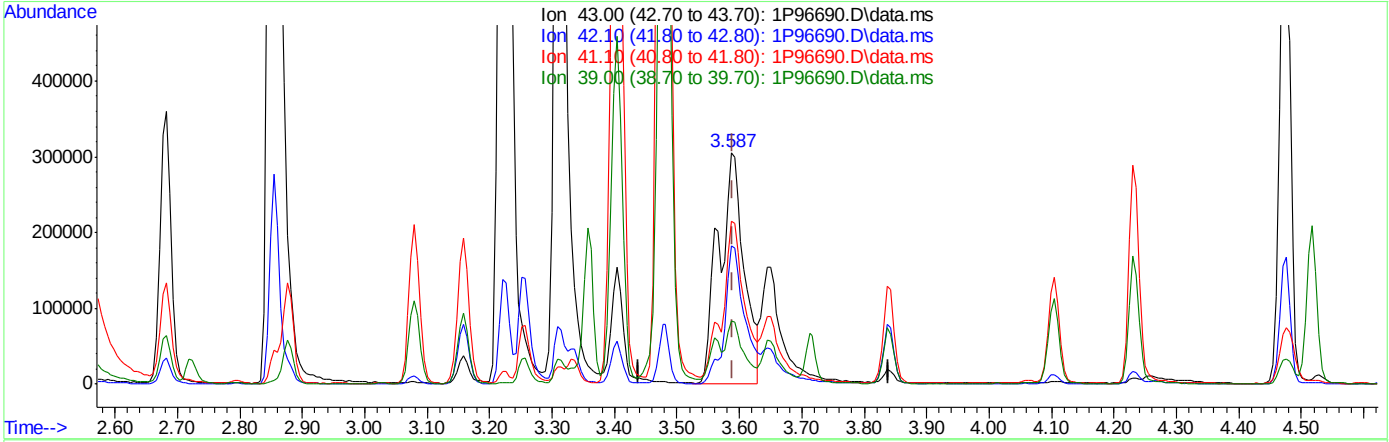
response 235305

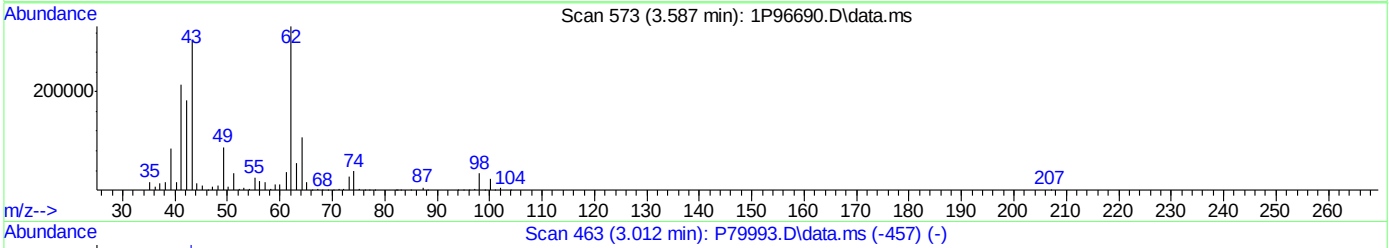
Ion	Exp%	Act%
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42.10	58.50	65.95
41.10	71.10	69.21
39.00	23.40	27.37

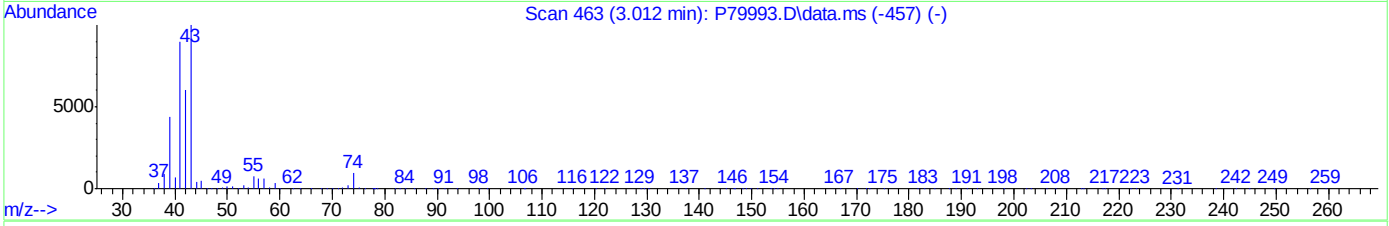
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96690.D
Acq On : 29 Dec 2022 1:38 pm
Operator : joannel
Sample : ICC3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 29 14:22:12 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96690.D\data.ms

(50) Isobutyl alcohol

3.587min (-0.003) 1019.55ug/L m

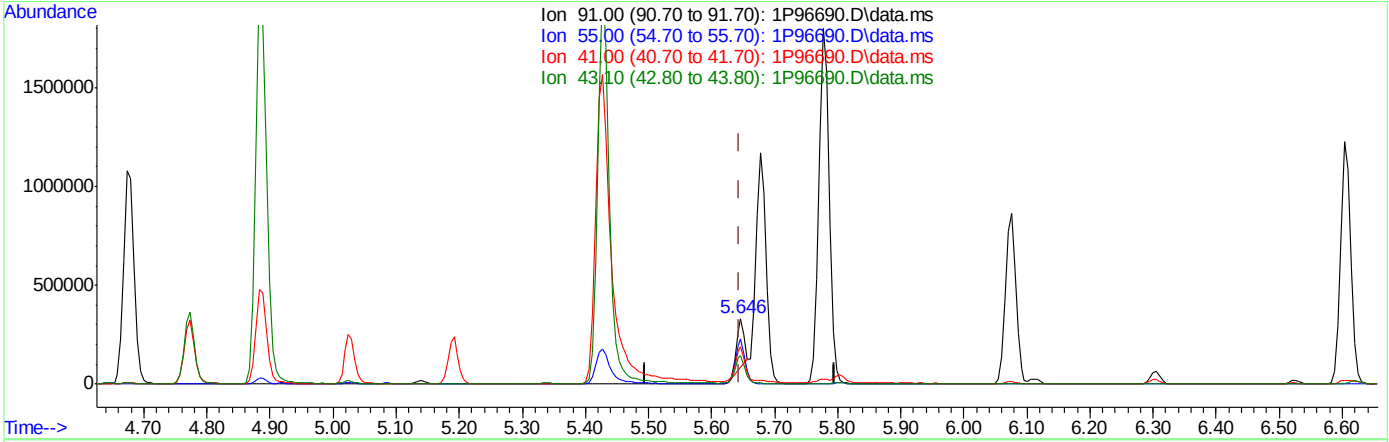
response 858323

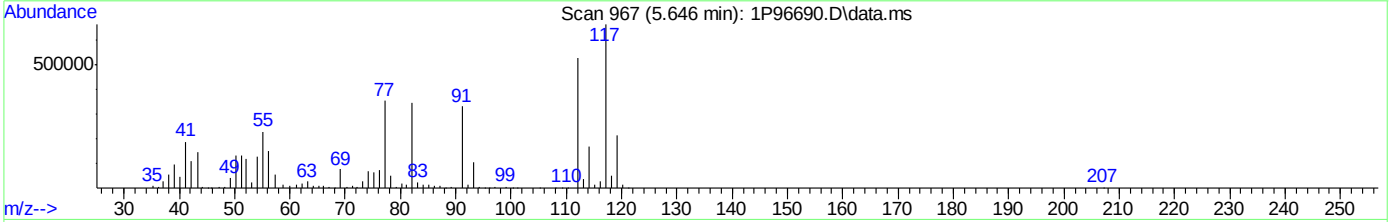
Ion	Exp%	Act%
43.00	100	100
42.10	58.50	59.85
41.10	71.10	70.46
39.00	23.40	27.47

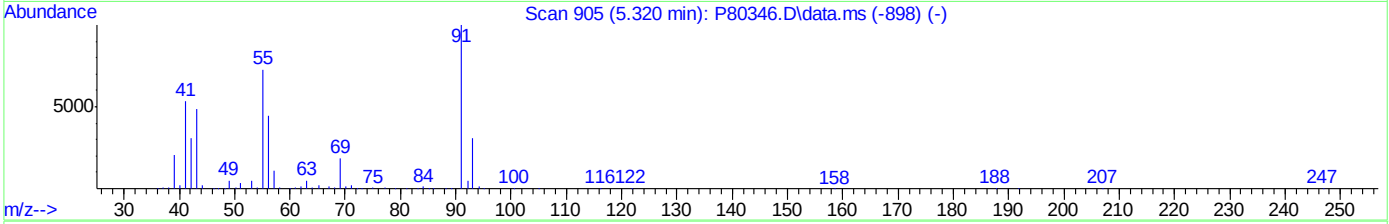
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96690.D
Acq On : 29 Dec 2022 1:38 pm
Operator : joannel
Sample : ICC3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 29 14:22:12 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96690.D\data.ms

(76) 1-Chlorohexane

5.646min (+0.001) 23.34ug/L

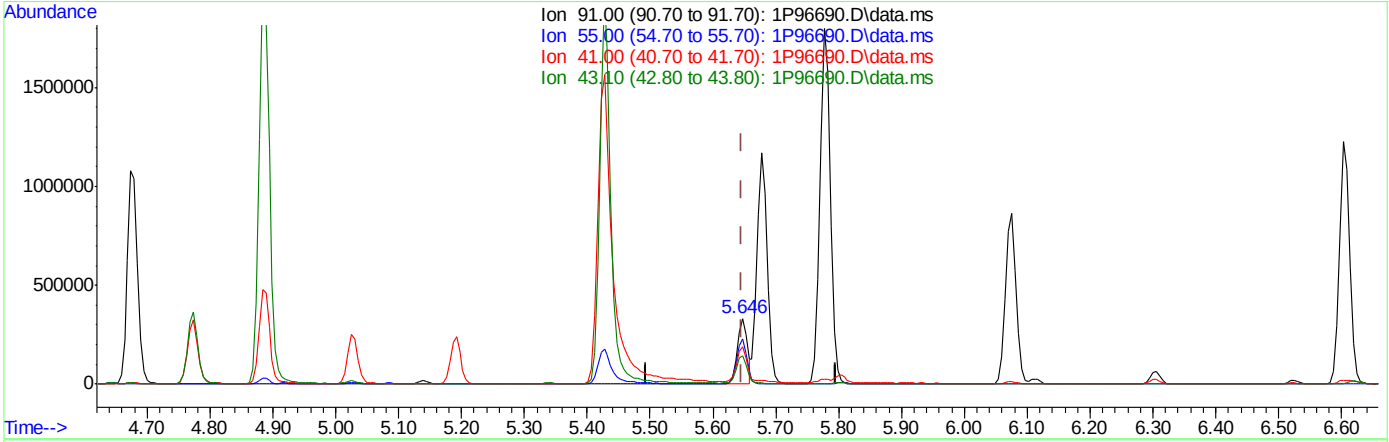
response 229803

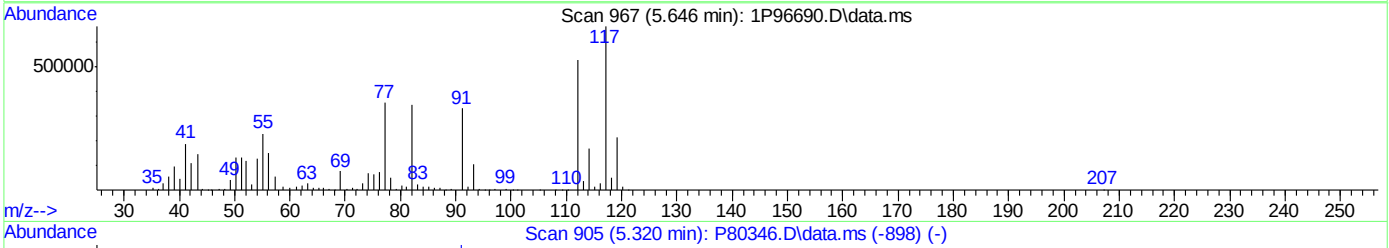
Ion	Exp%	Act%
91.00	100	100
55.00	71.50	67.11
41.00	56.40	51.67
43.10	47.80	41.65

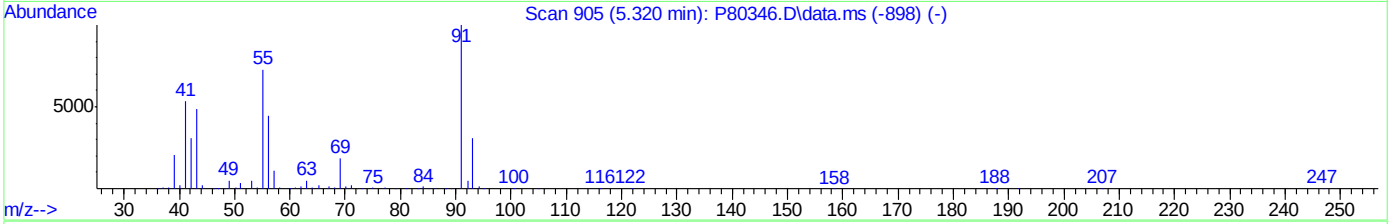
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96690.D
Acq On : 29 Dec 2022 1:38 pm
Operator : joannel
Sample : ICC3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 29 14:22:12 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration







TIC: 1P96690.D\data.ms

(76) 1-Chlorohexane

5.646min (+0.001) 36.17ug/L m

response 356097

Ion	Exp%	Act%
91.00	100	100
55.00	71.50	69.02
41.00	56.40	56.35
43.10	47.80	43.27

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/03/23 11:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96692.D
Acq On : 29 Dec 2022 2:10 pm
Operator : joannel
Sample : IC3655-6
Misc : MS52806,V1P3655,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 29 14:28:42 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.715	96	1901743	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.638	117	1257948	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.327	152	566656	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.260	113	422612	49.40	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.80%			
49) 1,2-Dichloroethane-d4	3.547	65	539449	46.63	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 93.26%			
63) Toluene-d8	4.645	98	1771025	48.88	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.76%			
86) 4-Bromofluorobenzene	6.491	174	467413	50.84	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.68%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.137	85	416153	46.59	ug/L	94
3) Chloromethane	1.252	50	453058	53.05	ug/L	95
4) 1,3-butadiene	1.315	39	262524	41.76	ug/L	98
5) Vinyl Chloride	1.315	62	460717	58.41	ug/L	98
6) Bromomethane	1.508	94	248450	92.64	ug/L	99
7) Chloroethane	1.576	64	144468	51.94	ug/L	98
8) Trichlorofluoromethane	1.665	101	495829	68.58	ug/L	99
9) Ethyl Ether	1.874	59	439123	78.63	ug/L	91
10) Ethanol	1.968	45	177947	1044.54	ug/L	96
11) 1,2-Dichlorotrifluoroe...	1.968	67	522113	60.06	ug/L	99
12) 1,1-Dichloroethene	1.974	61	650131	59.32	ug/L	99
13) Freon 113	2.005	101	408418	58.41	ug/L	99
14) Carbon Disulfide	1.989	76	1178465	61.95	ug/L	97
15) Iodomethane	2.052	142	451811	87.68	ug/L	95
16) Acrolein	2.151	56	784411	329.91	ug/L	100
17) Allyl chloride	2.240	41	607871	54.56	ug/L	94
18) Methylene Chloride	2.298	49	538305	60.66	ug/L	96
19) Acetone	2.313	43	1367274	318.19	ug/L	99
20) Methyl acetate	2.392	43	3176645	324.23	ug/L	97
21) trans-1,2-Dichloroethene	2.397	61	666933	61.40	ug/L	94
22) Hexane	2.460	56	340189m	57.53	ug/L	
23) Methyl Tert Butyl Ether	2.470	73	1627631	64.71	ug/L	86
24) Tert Butyl Alcohol	2.512	59	1418174	597.45	ug/L	95
25) Acetonitrile	2.549	41	1245912m	Below Cal		
26) Di-isopropyl ether	2.685	45	1519699	65.19	ug/L	98
27) Chloroprene	2.726	53	2142273	62.86	ug/L	99
28) 1,1-Dichloroethane	2.726	63	858971	62.21	ug/L	97
29) Acrylonitrile	2.726	52	1392757	317.92	ug/L	99
30) ETBE	2.878	59	1545895	64.54	ug/L	99
31) Vinyl acetate	2.857	43	5647894	341.32	ug/L	97
32) cis-1,2-Dichloroethene	3.019	96	531489	65.38	ug/L	95
33) 2,2-Dichloropropane	3.082	77	759977	59.04	ug/L	99
34) Bromochloromethane	3.124	128	218432	65.75	ug/L	93
35) Cyclohexane	3.155	56	719570	61.61	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96692.D
Acq On : 29 Dec 2022 2:10 pm
Operator : joannel
Sample : IC3655-6
Misc : MS52806,V1P3655,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 29 14:28:42 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.166	83	892648	62.21	ug/L		98
37) Ethyl acetate	3.223	43	4125644	337.52	ug/L		99
38) Tetrahydrofuran	3.254	42	319694	65.35	ug/L		99
40) Carbon Tetrachloride	3.265	117	580850m	54.36	ug/L		
41) 1,1,1-Trichloroethane	3.291	97	759418	59.59	ug/L		99
42) 2-Butanone	3.312	43	2503775	328.49	ug/L		97
43) 1,1-Dichloropropene	3.359	75	687758	62.97	ug/L		98
44) tert-Butyl formate	3.406	59	1799234	264.02	ug/L		90
45) Propionitrile	3.458	54	1346752	583.53	ug/L		99
46) Methacrylonitrile	3.479	41	4576574	711.41	ug/L		97
47) Benzene	3.490	78	2090668	67.23	ug/L		94
48) TAME	3.563	73	1532139	65.91	ug/L		100
50) Isobutyl alcohol	3.594	43	1420225m	1649.67	ug/L		
51) 1,2-Dichloroethane	3.584	62	681987	60.23	ug/L		98
52) Tert Amyl Alcohol	3.652	59	1213371	647.15	ug/L		99
53) Trichloroethene	3.819	95	520963	62.88	ug/L		95
54) Methylcyclohexane	3.840	83	704530	61.34	ug/L		99
55) Dibromomethane	4.049	93	302248	66.16	ug/L		87
56) 1,2-Dichloropropane	4.107	63	494170	63.62	ug/L		97
57) Bromodichloromethane	4.143	83	614279	63.44	ug/L		99
58) Methyl methacrylate	4.232	41	590584	69.64	ug/L		96
59) 1,4-Dioxane	4.269	88	212895	1179.88	ug/L		92
60) 2-Chloroethyl vinyl ether	4.478	63	2035714	362.33	ug/L		99
61) cis-1,3-Dichloropropene	4.520	75	795370	65.90	ug/L		98
64) Toluene	4.676	91	2182640	65.95	ug/L		99
65) 2-Nitropropane	4.776	41	768685	238.75	ug/L		91
66) 4-Methyl-2-pentanone	4.886	43	4148943	314.13	ug/L		98
67) trans-1,3-Dichloropropene	4.917	75	693137	66.29	ug/L	#	81
68) Tetrachloroethene	4.933	166	507730	67.37	ug/L		98
69) Ethyl methacrylate	5.027	69	788572	72.92	ug/L		95
70) 1,1,2-Trichloroethane	5.016	83	365451	65.97	ug/L		94
71) Dibromochloromethane	5.137	129	416243	64.86	ug/L		97
72) 1,3-Dichloropropane	5.189	76	815731	66.03	ug/L		98
73) 1,2-Dibromoethane	5.293	107	466291	69.49	ug/L		99
74) 3,3-dimethyl-1-butanol	5.429	57	6796276	3648.59	ug/L		98
75) 2-hexanone	5.429	43	4338005	346.02	ug/L		96
76) 1-Chlorohexane	5.649	91	639994m	64.37	ug/L		
77) Ethylbenzene	5.680	91	2253935	65.24	ug/L		97
78) Chlorobenzene	5.649	112	1243723	67.35	ug/L		99
79) 1,1,1,2-Tetrachloroethane	5.696	131	409746	62.08	ug/L		96
80) m,p-Xylene	5.780	91	3583937	137.63	ug/L		95
81) o-Xylene	6.072	91	1763005	69.46	ug/L		96
82) Styrene	6.104	104	1422641	69.66	ug/L		97
83) Bromoform	6.114	173	246075	56.62	ug/L		97
84) Isopropylbenzene	6.302	105	2103234	66.36	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.522	53	245720	65.87	ug/L		92
88) n-Propylbenzene	6.606	91	2370810	67.79	ug/L		97
89) Bromobenzene	6.569	156	498089	67.94	ug/L		89
90) 1,1,2,2-Tetrachloroethane	6.627	83	656858	65.75	ug/L		99
91) 1,3,5-Trimethylbenzene	6.752	105	1669404	71.86	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96692.D
Acq On : 29 Dec 2022 2:10 pm
Operator : joannel
Sample : IC3655-6
Misc : MS52806,V1P3655,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 29 14:28:42 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

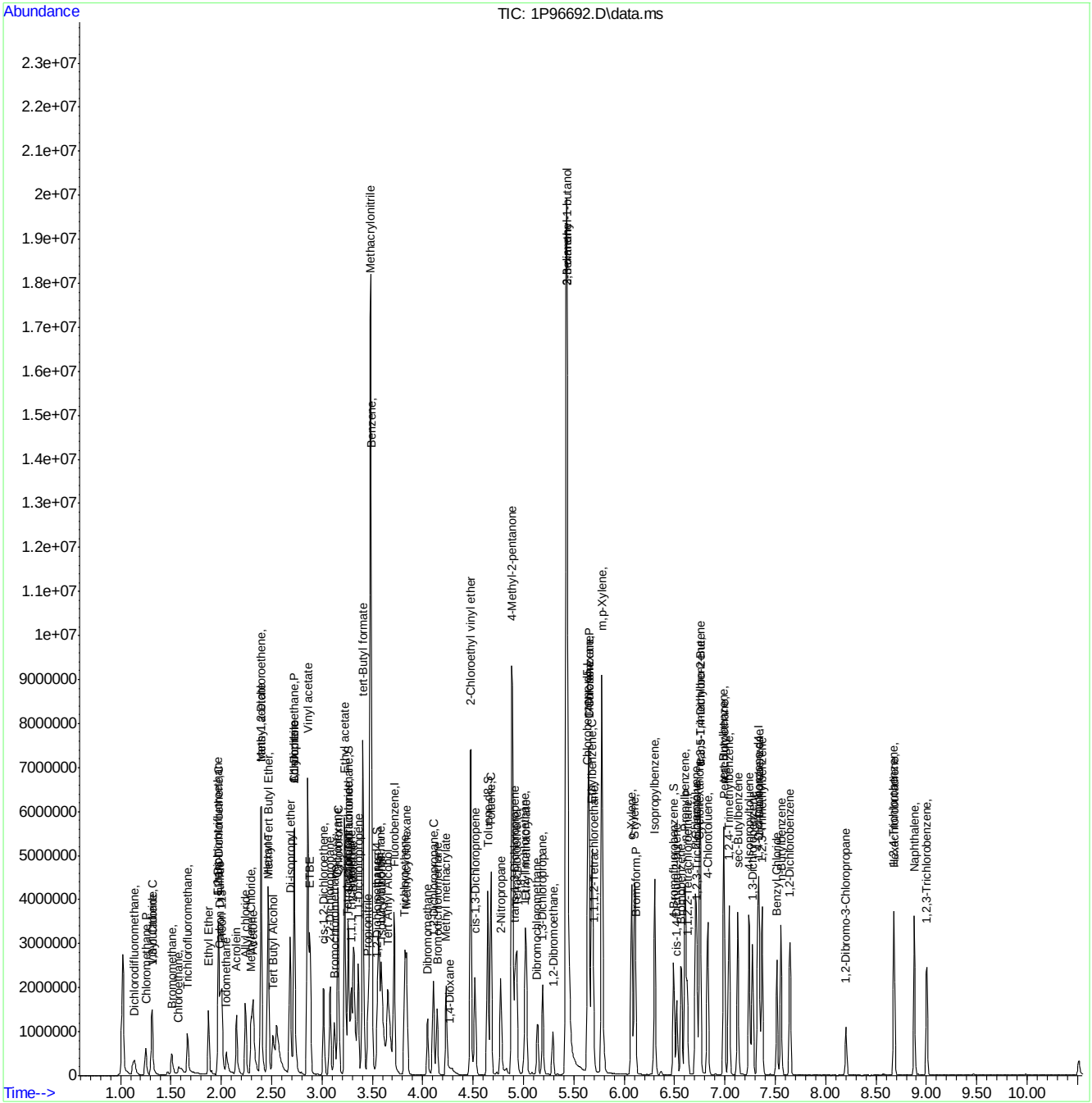
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 2-Chlorotoluene	6.710	91	1406271	67.00	ug/L		97
93) trans-1,4-Dichloro-2-B...	6.752	53	251323	69.66	ug/L		92
94) 1,2,3-Trichloropropane	6.721	110	236156	65.89	ug/L		95
95) Cyclohexanone	6.747	55	182575	320.89	ug/L		97
96) 4-Chlorotoluene	6.830	91	1476166	66.61	ug/L		96
97) tert-Butylbenzene	6.987	91	920432	70.32	ug/L		96
99) 1,2,4-Trimethylbenzene	7.040	105	1607548	66.06	ug/L		100
100) Pentachloroethane	6.992	167	246497	63.02	ug/L	#	86
101) sec-Butylbenzene	7.128	105	1835662	72.63	ug/L		97
102) 4-Isopropyltoluene	7.238	119	1591336	64.90	ug/L		99
103) 1,3-Dichlorobenzene	7.275	146	885542	68.60	ug/L		96
104) 1,2,3-Trimethylbenzene	7.369	105	1572862	70.29	ug/L		100
105) 1,4-Dichlorobenzene	7.338	146	902946	67.38	ug/L		98
106) n-Butylbenzene	7.557	92	751680	62.79	ug/L		96
107) Benzyl Chloride	7.515	126	254694	61.34	ug/L		97
108) 1,2-Dichlorobenzene	7.646	146	836171	68.78	ug/L		99
109) 1,2-Dibromo-3-Chloropr...	8.200	75	176674	65.85	ug/L		94
110) Hexachlorobutadiene	8.681	225	175985	57.55	ug/L		91
111) 1,2,4-Trichlorobenzene	8.676	180	484232	65.75	ug/L		98
112) Naphthalene	8.880	128	1768149	67.74	ug/L		99
113) 1,2,3-Trichlorobenzene	9.005	180	467141	71.60	ug/L		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96692.D
Acq On : 29 Dec 2022 2:10 pm
Operator : joannel
Sample : IC3655-6
Misc : MS52806,V1P3655,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 29 14:28:42 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V1P3655-IC3655
Lab FileID: 1P96692.D
Injection Time: 12/29/22 14:10

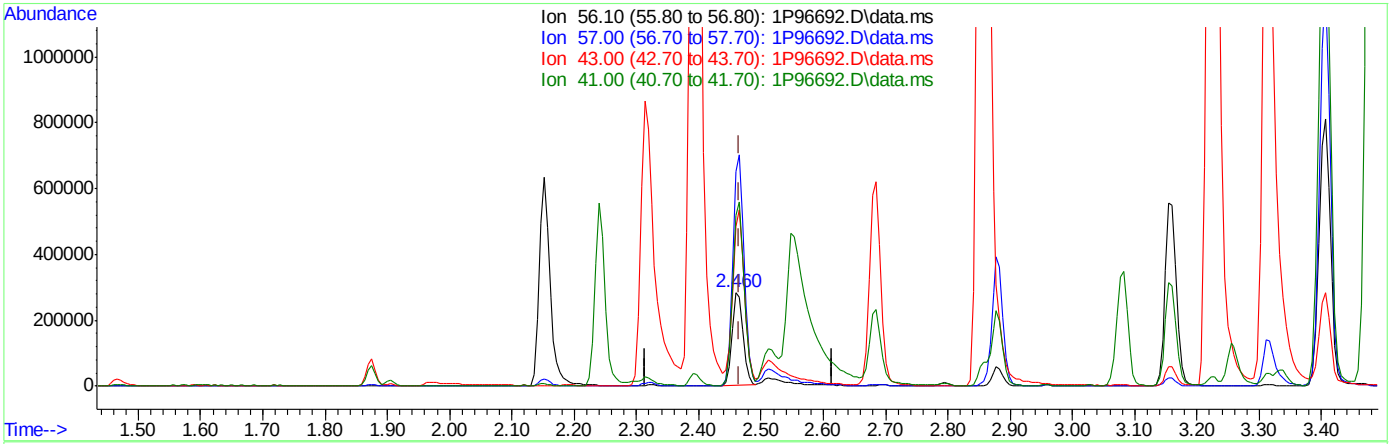
Method: SW846 8260D
Analyst approved: 12/31/22 09:29 Adelard Lefebvre
Supervisor approved: 01/03/23 11:45 Karen Watson

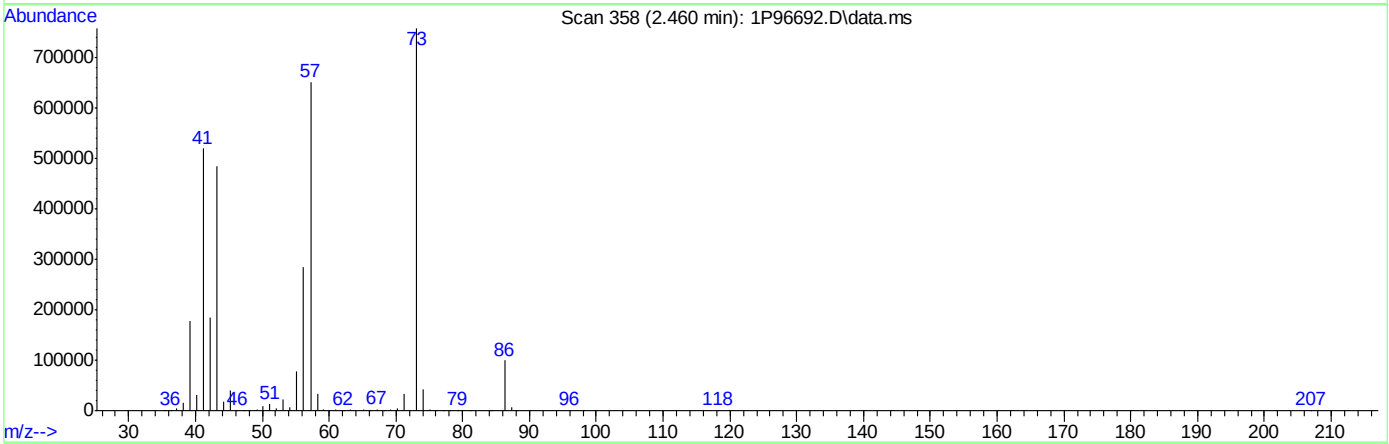
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		2.46	Overlapping peak
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96692.D
Acq On : 29 Dec 2022 2:10 pm
Operator : joannel
Sample : IC3655-6
Misc : MS52806,V1P3655,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 29 14:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96692.D\data.ms

(22) Hexane

2.460min (-0.006) 55.97ug/L

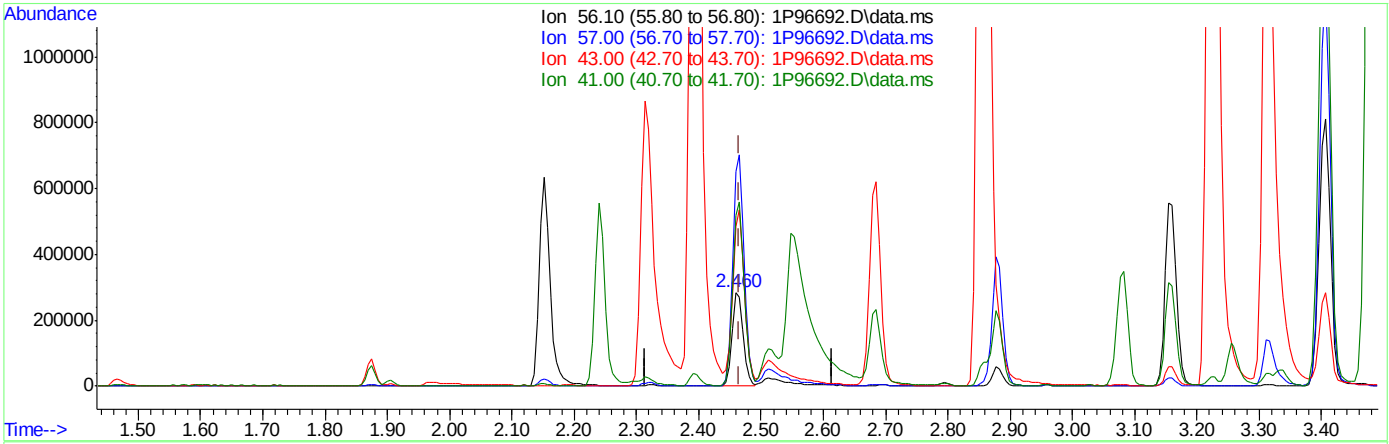
response 331001

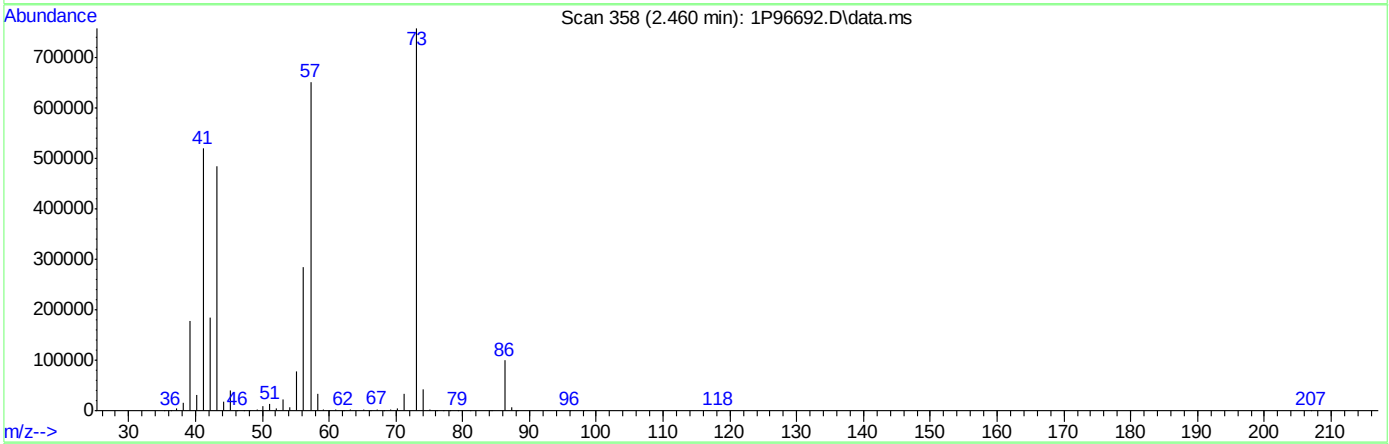
Ion	Exp%	Act%
56.10	100	100
57.00	250.90	229.39#
43.00	172.00	162.78
41.00	198.00	182.54

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96692.D
Acq On : 29 Dec 2022 2:10 pm
Operator : joannel
Sample : IC3655-6
Misc : MS52806,V1P3655,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 29 14:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96692.D\data.ms

(22) Hexane

2.460min (-0.006) 57.53ug/L m

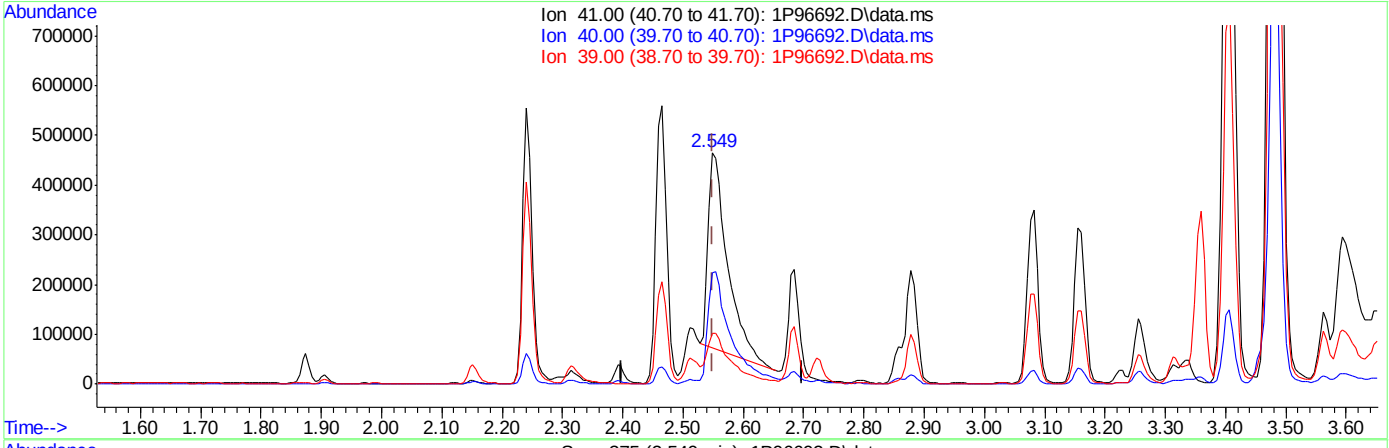
response 340189

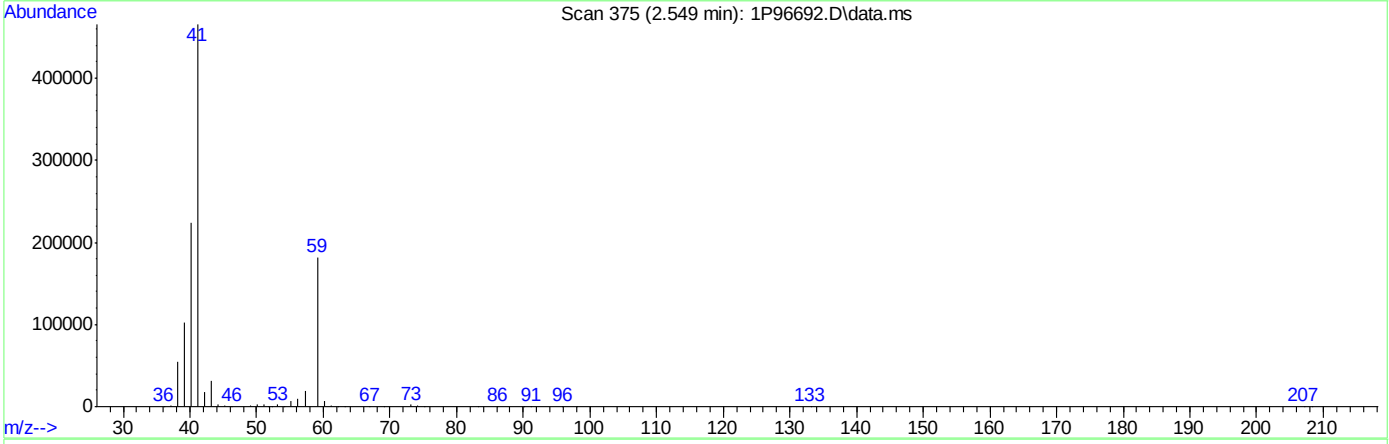
Ion	Exp%	Act%
56.10	100	100
57.00	250.90	228.82#
43.00	172.00	170.19
41.00	198.00	182.50

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96692.D
Acq On : 29 Dec 2022 2:10 pm
Operator : joannel
Sample : IC3655-6
Misc : MS52806,V1P3655,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 29 14:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96692.D\data.ms

(25) Acetonitrile

2.549min (-0.000) 579.62ug/L

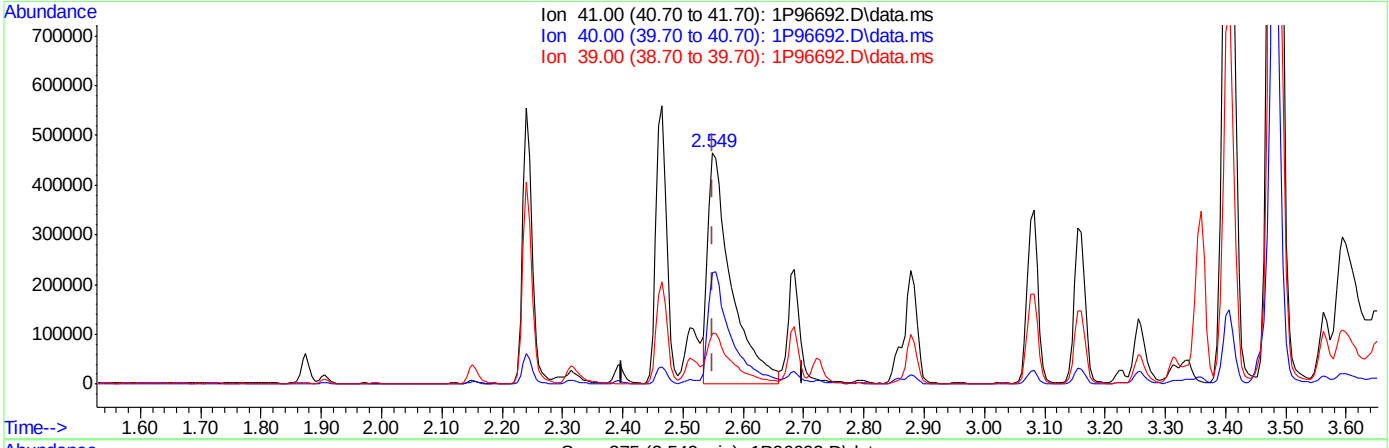
response 860295

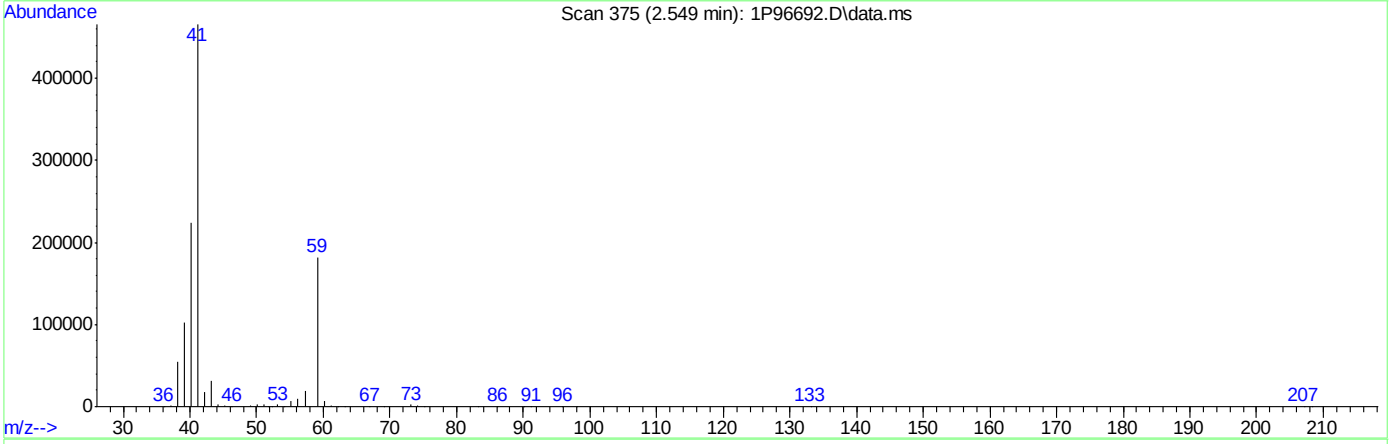
Ion	Exp%	Act%
41.00	100	100
40.00	51.50	49.50
39.00	19.80	21.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96692.D
Acq On : 29 Dec 2022 2:10 pm
Operator : joannel
Sample : IC3655-6
Misc : MS52806,V1P3655,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 29 14:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96692.D\data.ms

(25) Acetonitrile

2.549min (-0.000) -50.00ug/L m

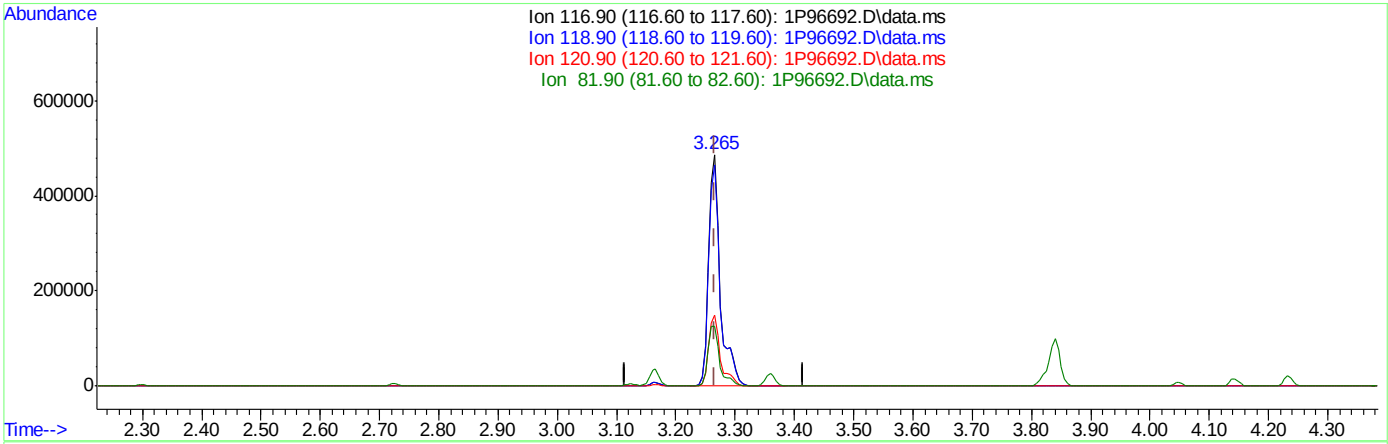
response 1245912

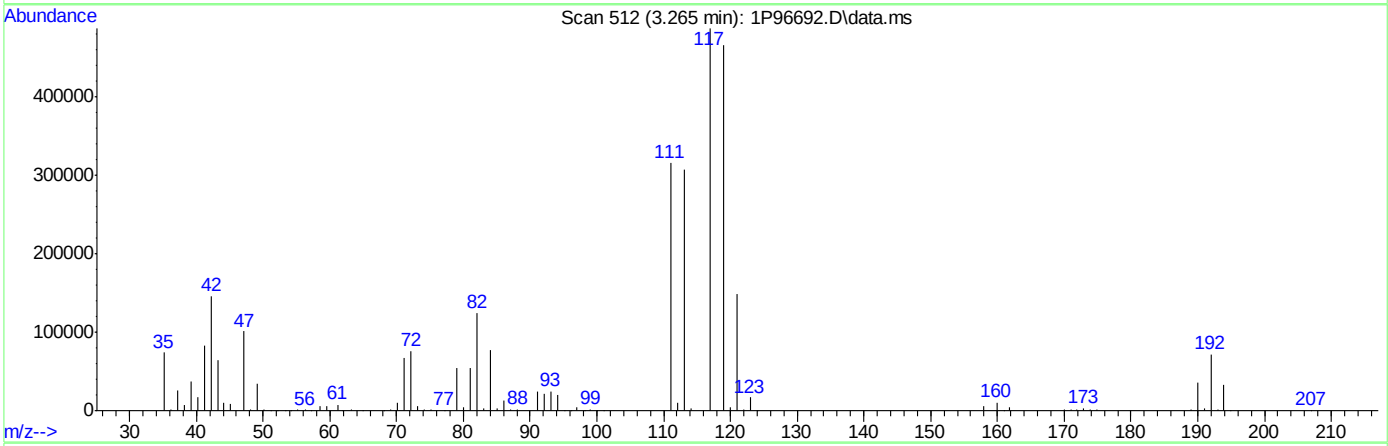
Ion	Exp%	Act%
41.00	100	100
40.00	51.50	48.00
39.00	19.80	22.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96692.D
Acq On : 29 Dec 2022 2:10 pm
Operator : joannel
Sample : IC3655-6
Misc : MS52806,V1P3655,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 29 14:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96692.D\data.ms

(40) Carbon Tetrachloride ( )

3.265min (-0.001) 62.89ug/L

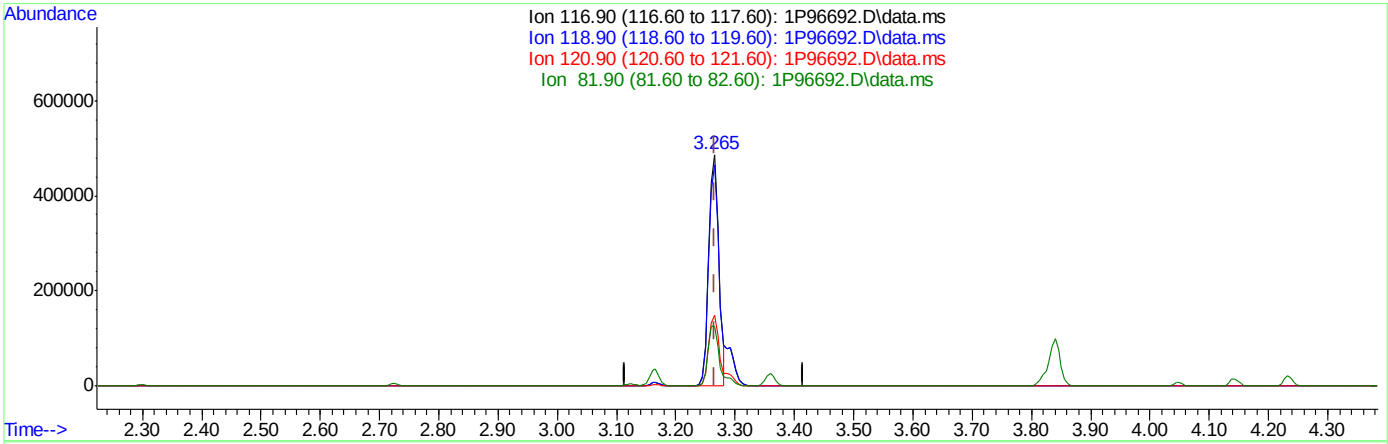
response 671926

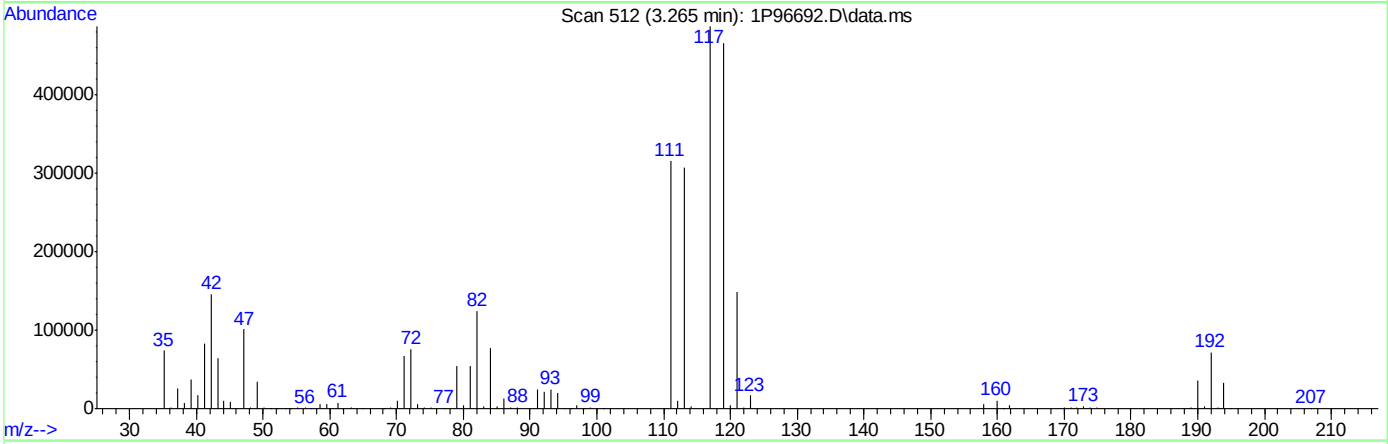
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	95.70
120.90	30.60	30.63
81.90	24.90	25.51

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96692.D
Acq On : 29 Dec 2022 2:10 pm
Operator : joannel
Sample : IC3655-6
Misc : MS52806,V1P3655,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 29 14:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96692.D\data.ms

(40) Carbon Tetrachloride ( )

3.265min (-0.001) 54.36ug/L m

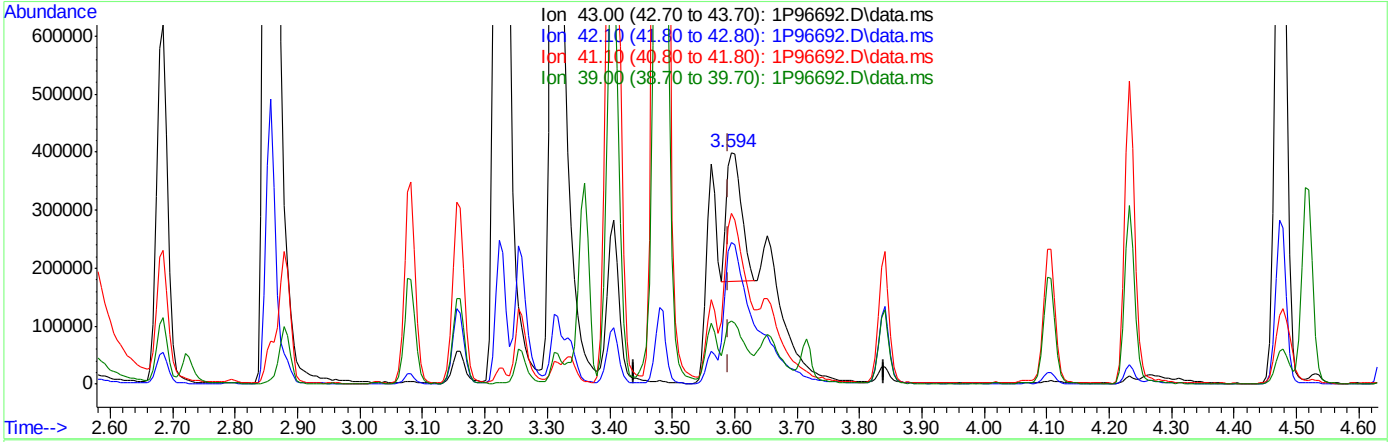
response 580850

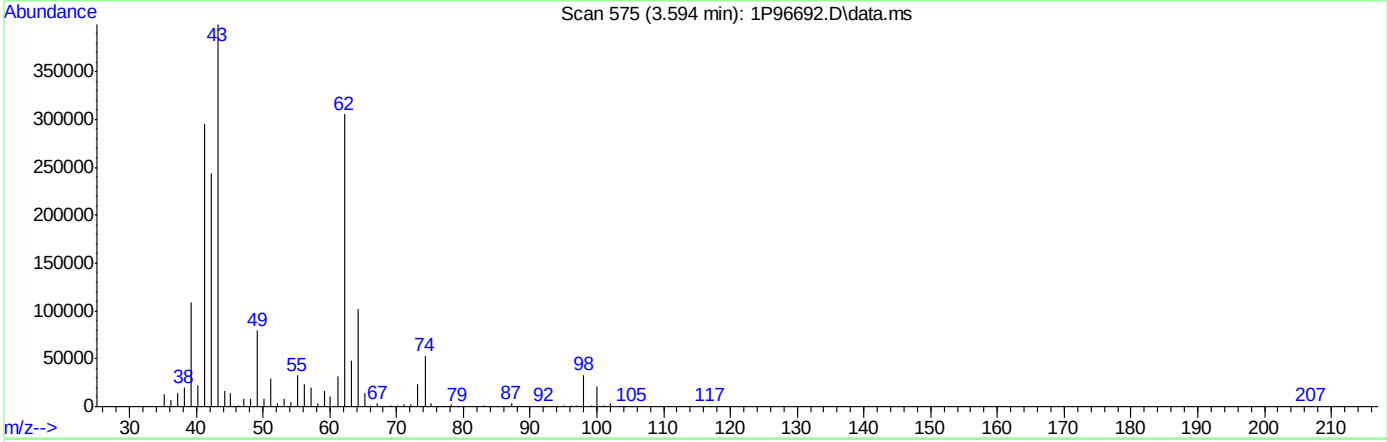
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	95.70
120.90	30.60	30.63
81.90	24.90	25.59

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96692.D
Acq On : 29 Dec 2022 2:10 pm
Operator : joannel
Sample : IC3655-6
Misc : MS52806,V1P3655,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 29 14:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96692.D\data.ms

(50) Isobutyl alcohol

3.594min (+0.004) 439.85ug/L

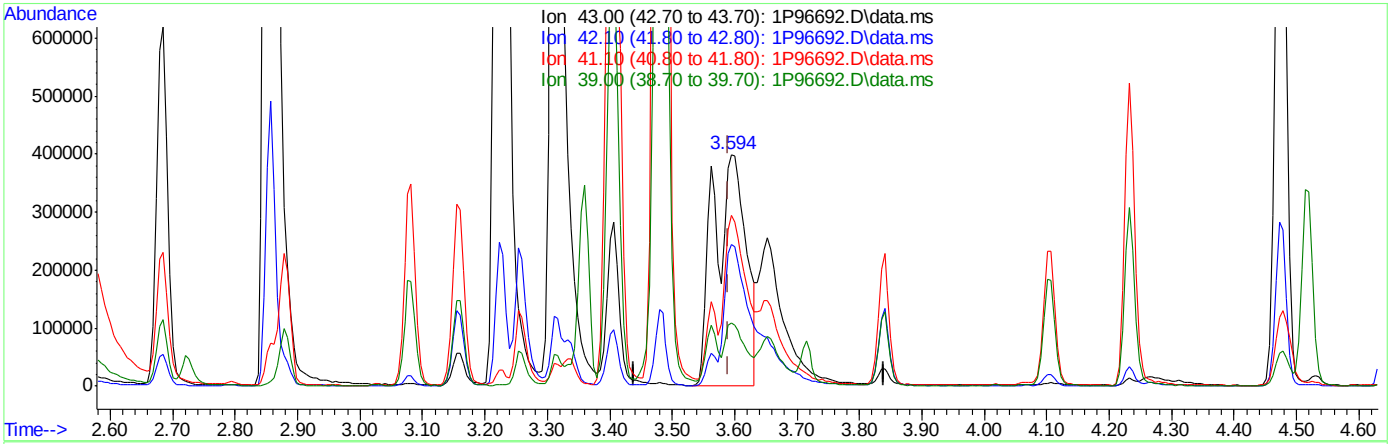
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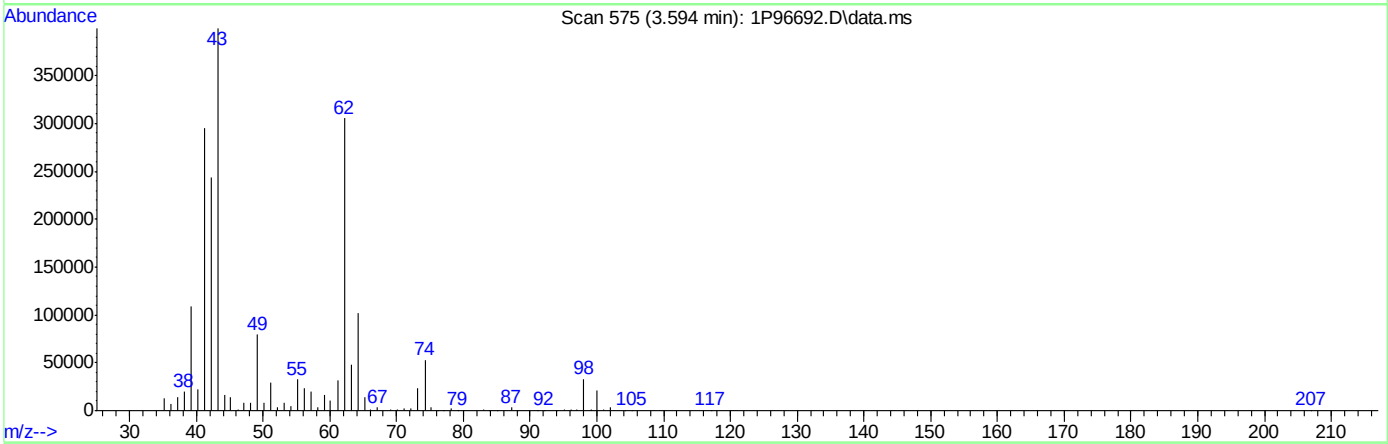
Ion	Exp%	Act%
43.00	100	100
42.10	58.50	76.78
41.10	71.10	85.00
39.00	23.40	26.72

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96692.D
Acq On : 29 Dec 2022 2:10 pm
Operator : joannel
Sample : IC3655-6
Misc : MS52806,V1P3655,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 29 14:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96692.D\data.ms

(50) Isobutyl alcohol

3.594min (+0.004) 1649.67ug/L m

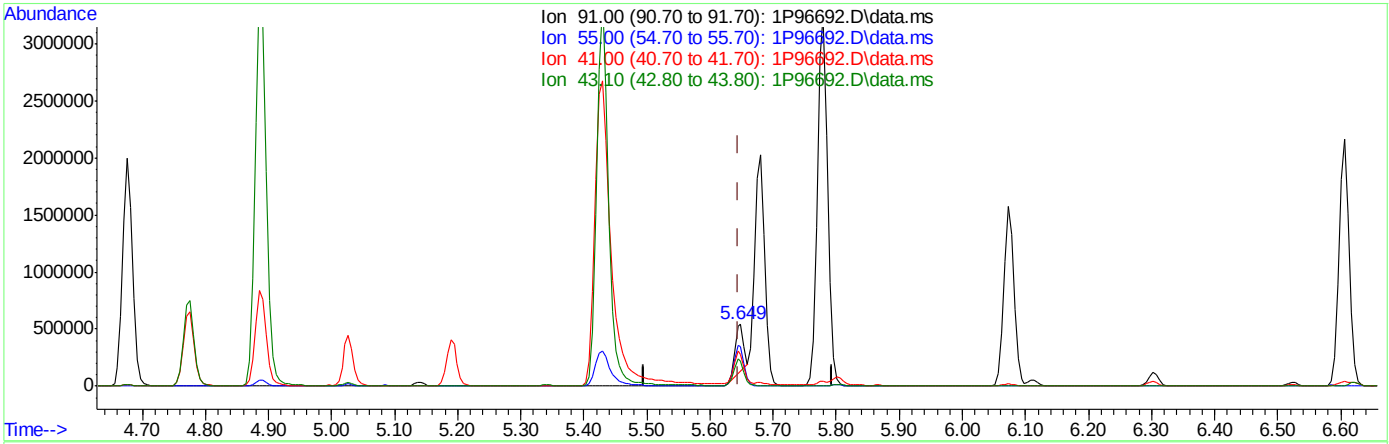
response 1420225

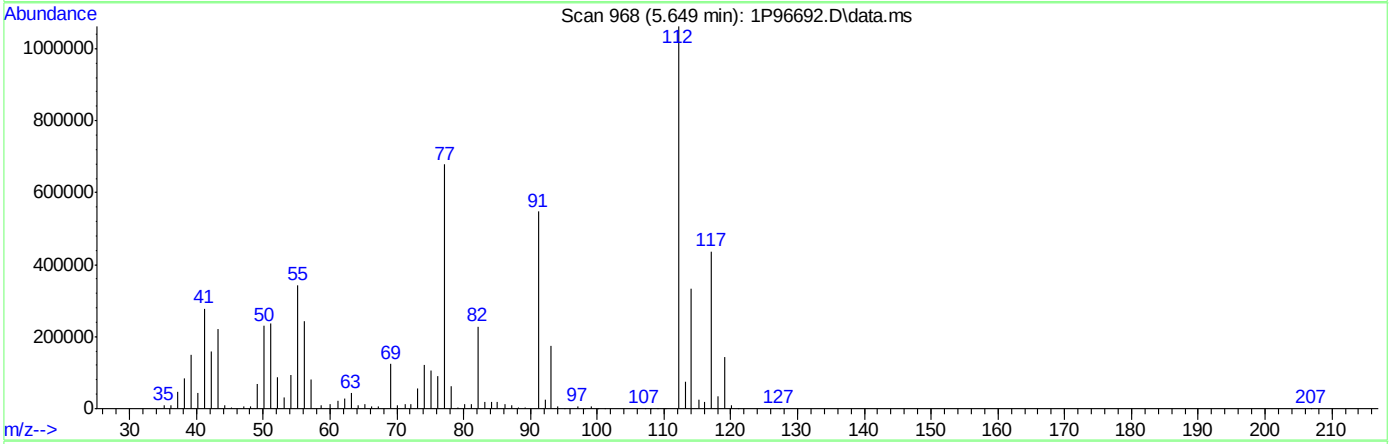
Ion	Exp%	Act%
43.00	100	100
42.10	58.50	61.00
41.10	71.10	73.92
39.00	23.40	27.22

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96692.D
Acq On : 29 Dec 2022 2:10 pm
Operator : joannel
Sample : IC3655-6
Misc : MS52806,V1P3655,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 29 14:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96692.D\data.ms

(76) 1-Chlorohexane

5.649min (+0.003) 44.60ug/L

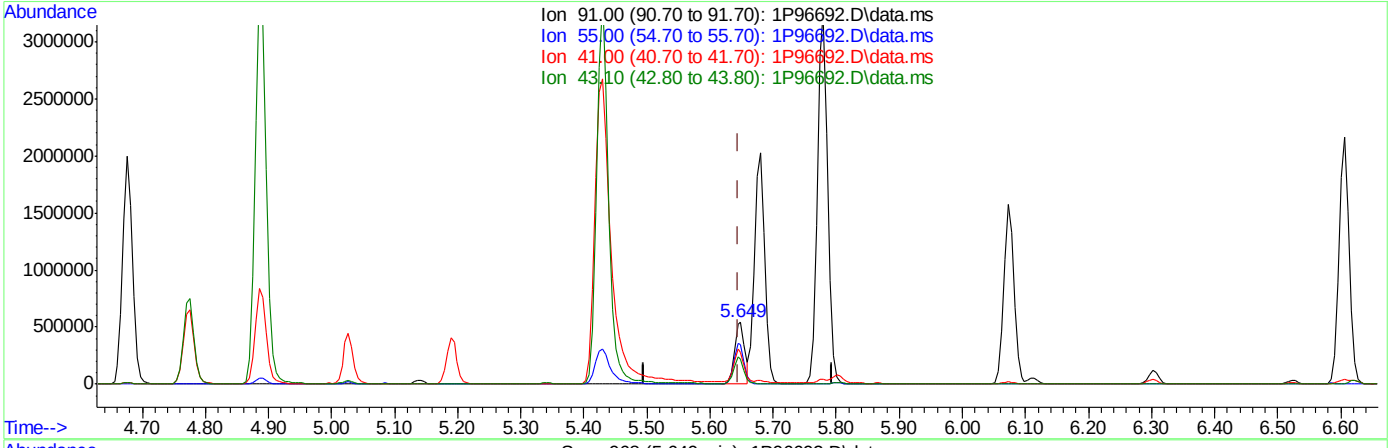
response 443444

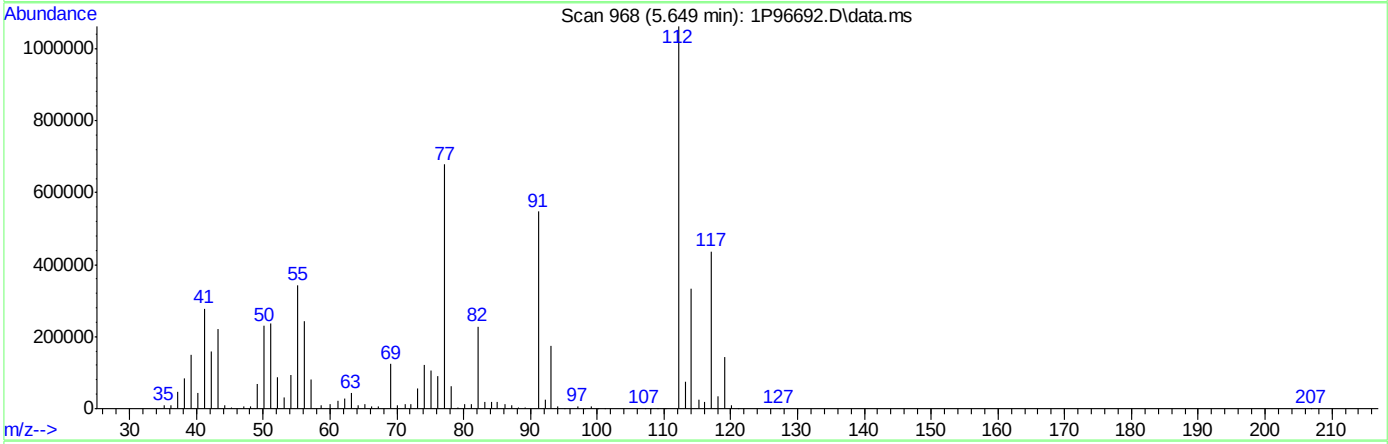
Ion	Exp%	Act%
91.00	100	100
55.00	71.50	60.01
41.00	56.40	45.95
43.10	47.80	38.34

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96692.D
Acq On : 29 Dec 2022 2:10 pm
Operator : joannel
Sample : IC3655-6
Misc : MS52806,V1P3655,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 29 14:22:14 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96692.D\data.ms

(76) 1-Chlorohexane

5.649min (+0.003) 64.37ug/L m

response 639994

Ion	Exp%	Act%
91.00	100	100
55.00	71.50	62.72
41.00	56.40	50.72
43.10	47.80	40.50

1P96694.D

Manual Integrations APPROVED (compounds with "m" flag)

Karen Watson
01/03/23 11:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96694.D
Acq On : 29 Dec 2022 2:41 pm
Operator : joannel
Sample : IC3655-7
Misc : MS52806,V1P3655,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 29 15:54:38 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.717	96	1909199	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.641	117	1254122	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.330	152	569512	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.262	113	426365	49.64	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.28%				
49) 1,2-Dichloroethane-d4	3.550	65	545187	46.95	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 93.90%				
63) Toluene-d8	4.643	98	1797410	49.76	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.52%				
86) 4-Bromofluorobenzene	6.493	174	468261	50.68	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.36%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.140	85	633881	70.69	ug/L		98
3) Chloromethane	1.255	50	654038	76.29	ug/L		98
4) 1,3-butadiene	1.318	39	381471	60.45	ug/L		97
5) Vinyl Chloride	1.323	62	662122	81.14	ug/L		100
6) Bromomethane	1.516	94	335741	124.69	ug/L		97
7) Chloroethane	1.584	64	192729m	69.02	ug/L		
8) Trichlorofluoromethane	1.668	101	552248	85.38	ug/L		100
9) Ethyl Ether	1.877	59	572382	102.09	ug/L		91
10) Ethanol	1.992	45	214590m	1326.32	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.971	67	732076	83.88	ug/L		99
12) 1,1-Dichloroethene	1.976	61	937039	85.16	ug/L		98
13) Freon 113	2.008	101	612719	87.28	ug/L		98
14) Carbon Disulfide	1.992	76	1703821	89.21	ug/L		98
15) Iodomethane	2.055	142	629291	118.20	ug/L		97
16) Acrolein	2.154	56	1115369	467.28	ug/L		100
17) Allyl chloride	2.243	41	875555	78.27	ug/L		93
18) Methylene Chloride	2.300	49	760126	90.03	ug/L		97
19) Acetone	2.321	43	1846497	447.00	ug/L		99
20) Methyl acetate	2.400	43	4499348	457.44	ug/L		93
21) trans-1,2-Dichloroethene	2.394	61	967736	88.74	ug/L		99
22) Hexane	2.462	56	502118	84.58	ug/L	#	87
23) Methyl Tert Butyl Ether	2.473	73	2331878	92.35	ug/L		80
24) Tert Butyl Alcohol	2.520	59	1877081	787.69	ug/L		88
25) Acetonitrile	2.557	41	1808465m	Below Cal			
26) Di-isopropyl ether	2.687	45	2149306	91.84	ug/L		97
27) Chloroprene	2.724	53	2962468	86.59	ug/L		91
28) 1,1-Dichloroethane	2.724	63	1229603	88.71	ug/L		97
29) Acrylonitrile	2.729	52	1933284	439.59	ug/L		97
30) ETBE	2.881	59	2218754	92.27	ug/L		100
31) Vinyl acetate	2.860	43	7822383	470.89	ug/L		96
32) cis-1,2-Dichloroethene	3.017	96	759694	93.08	ug/L		99
33) 2,2-Dichloropropane	3.079	77	1122198	86.84	ug/L		100
34) Bromochloromethane	3.126	128	314665	94.35	ug/L		86
35) Cyclohexane	3.158	56	1085046	92.55	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96694.D
Acq On : 29 Dec 2022 2:41 pm
Operator : joannel
Sample : IC3655-7
Misc : MS52806,V1P3655,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 29 15:54:38 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	3.163	83	1290520	89.58	ug/L		98
37) Ethyl acetate	3.226	43	5676417	462.58	ug/L		99
38) Tetrahydrofuran	3.257	42	436209	88.82	ug/L		98
40) Carbon Tetrachloride	3.262	117	893864m	83.33	ug/L		
41) 1,1,1-Trichloroethane	3.288	97	1116622	87.27	ug/L		98
42) 2-Butanone	3.315	43	3356918	460.62	ug/L		97
43) 1,1-Dichloropropene	3.362	75	1012826	92.37	ug/L		98
44) tert-Butyl formate	3.409	59	2701073	394.80	ug/L		92
45) Propionitrile	3.466	54	1803954	778.58	ug/L		89
46) Methacrylonitrile	3.482	41	6196282	1106.89	ug/L		97
47) Benzene	3.492	78	3055834	97.88	ug/L		95
48) TAME	3.566	73	2195843	94.09	ug/L		99
50) Isobutyl alcohol	3.566	43	1886107m	2182.26	ug/L		
51) 1,2-Dichloroethane	3.586	62	989138	87.01	ug/L		99
52) Tert Amyl Alcohol	3.660	59	1652053	877.68	ug/L		99
53) Trichloroethene	3.822	95	756992	91.01	ug/L		94
54) Methylcyclohexane	3.843	83	1081454	93.79	ug/L		99
55) Dibromomethane	4.047	93	436753	95.23	ug/L		94
56) 1,2-Dichloropropane	4.104	63	703103	90.16	ug/L		99
57) Bromodichloromethane	4.141	83	891583	91.72	ug/L		99
58) Methyl methacrylate	4.235	41	830033	97.50	ug/L		96
59) 1,4-Dioxane	4.271	88	277863	1522.53	ug/L		92
60) 2-Chloroethyl vinyl ether	4.475	63	2868940	508.64	ug/L		98
61) cis-1,3-Dichloropropene	4.517	75	1141542	94.22	ug/L		95
64) Toluene	4.679	91	3110900	94.29	ug/L		97
65) 2-Nitropropane	4.773	41	1182391	368.36	ug/L		91
66) 4-Methyl-2-pentanone	4.888	43	5672623	430.81	ug/L		98
67) trans-1,3-Dichloropropene	4.914	75	989888	94.97	ug/L	#	78
68) Tetrachloroethene	4.935	166	733917	97.69	ug/L		96
69) Ethyl methacrylate	5.029	69	1110233	102.98	ug/L		97
70) 1,1,2-Trichloroethane	5.014	83	522286	94.56	ug/L		89
71) Dibromochloromethane	5.139	129	613950	95.96	ug/L		98
72) 1,3-Dichloropropane	5.191	76	1164372	94.53	ug/L		99
73) 1,2-Dibromoethane	5.291	107	669641	100.09	ug/L		98
74) 3,3-dimethyl-1-butanol	5.432	57	9196425	5017.44	ug/L		97
75) 2-hexanone	5.432	43	5821483	465.76	ug/L		97
76) 1-Chlorohexane	5.646	91	986145m	99.48	ug/L		
77) Ethylbenzene	5.678	91	3222973	93.57	ug/L		98
78) Chlorobenzene	5.652	112	1780052	96.69	ug/L		99
79) 1,1,1,2-Tetrachloroethane	5.693	131	594261	90.31	ug/L		96
80) m,p-Xylene	5.777	91	5144073	198.14	ug/L		96
81) o-Xylene	6.075	91	2534203	100.15	ug/L		96
82) Styrene	6.106	104	2035709	96.63	ug/L		97
83) Bromoform	6.117	173	369129	80.07	ug/L		97
84) Isopropylbenzene	6.305	105	3040605	93.07	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.525	53	356856	95.19	ug/L		98
88) n-Propylbenzene	6.603	91	3451038	98.18	ug/L		99
89) Bromobenzene	6.566	156	715299	97.09	ug/L		95
90) 1,1,2,2-Tetrachloroethane	6.629	83	931656	92.79	ug/L		99
91) 1,3,5-Trimethylbenzene	6.755	105	2450081	104.94	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96694.D
Acq On : 29 Dec 2022 2:41 pm
Operator : joannel
Sample : IC3655-7
Misc : MS52806,V1P3655,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 29 15:54:38 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration

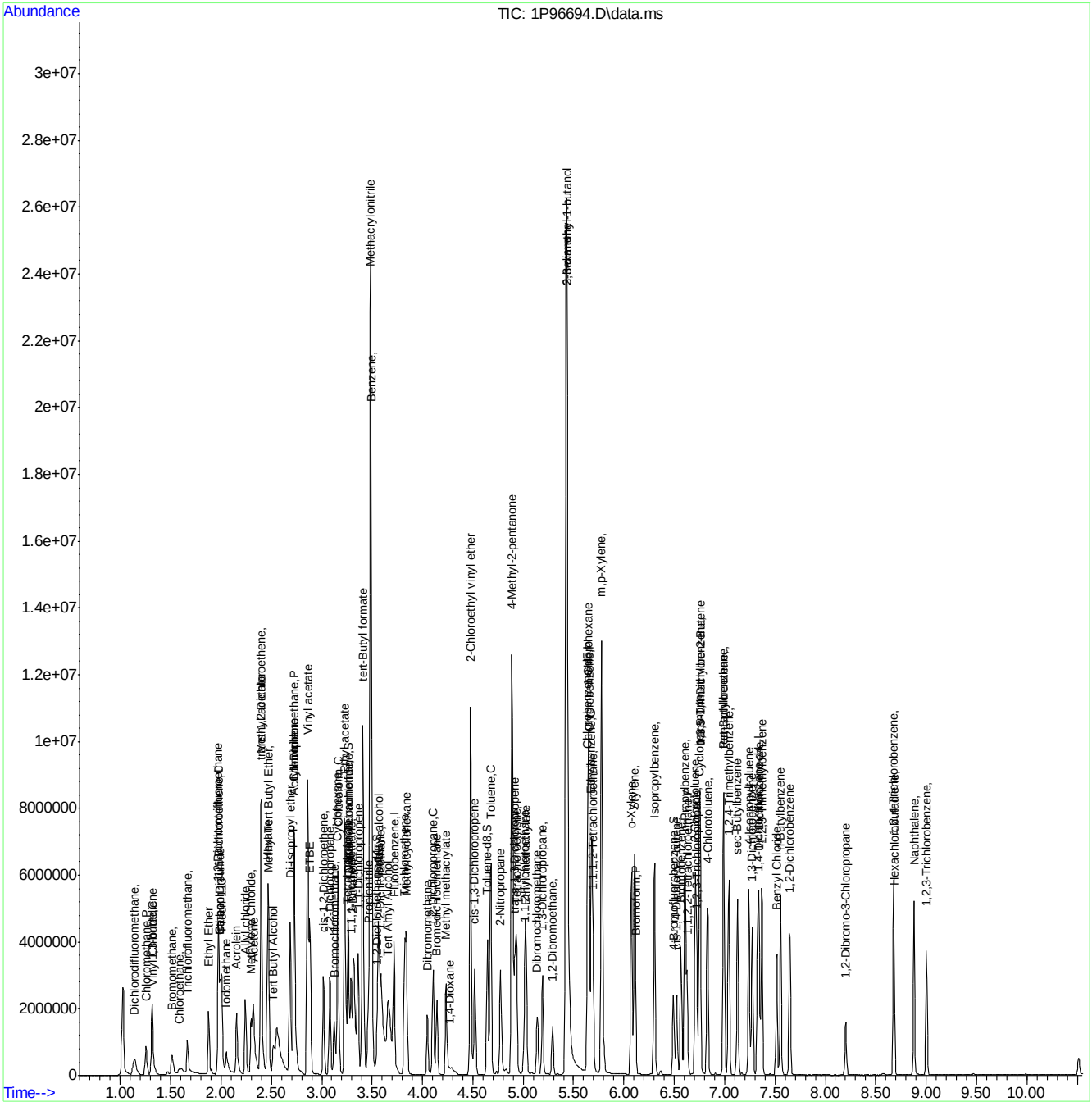
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92)	2-Chlorotoluene	6.708	91	2038319	96.63	ug/L	100
93)	trans-1,4-Dichloro-2-B...	6.755	53	362534	99.98	ug/L	97
94)	1,2,3-Trichloropropane	6.723	110	337478	93.69	ug/L	98
95)	Cyclohexanone	6.749	55	237308	415.00	ug/L	95
96)	4-Chlorotoluene	6.828	91	2127538	95.51	ug/L	97
97)	tert-Butylbenzene	6.990	91	1340133	101.87	ug/L	97
99)	1,2,4-Trimethylbenzene	7.042	105	2363938	92.73	ug/L	99
100)	Pentachloroethane	6.990	167	362525	92.22	ug/L	93
101)	sec-Butylbenzene	7.126	105	2685447	105.72	ug/L	98
102)	4-Isopropyltoluene	7.241	119	2328283	90.38	ug/L	99
103)	1,3-Dichlorobenzene	7.272	146	1260236	97.14	ug/L	99
104)	1,2,3-Trimethylbenzene	7.366	105	2291854	101.91	ug/L	99
105)	1,4-Dichlorobenzene	7.340	146	1305577	96.93	ug/L	99
106)	n-Butylbenzene	7.555	92	1119759	89.31	ug/L	97
107)	Benzyl Chloride	7.518	126	376761	84.98	ug/L	93
108)	1,2-Dichlorobenzene	7.649	146	1209913	99.03	ug/L	97
109)	1,2-Dibromo-3-Chloropr...	8.203	75	257610	95.54	ug/L	88
110)	Hexachlorobutadiene	8.684	225	259717	84.51	ug/L	97
111)	1,2,4-Trichlorobenzene	8.679	180	717092	90.85	ug/L	98
112)	Naphthalene	8.882	128	2625759	92.12	ug/L	99
113)	1,2,3-Trichlorobenzene	9.003	180	682317	104.06	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96694.D
Acq On : 29 Dec 2022 2:41 pm
Operator : joannel
Sample : IC3655-7
Misc : MS52806,V1P3655,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 29 15:54:38 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration



Manual Integration Approval Summary

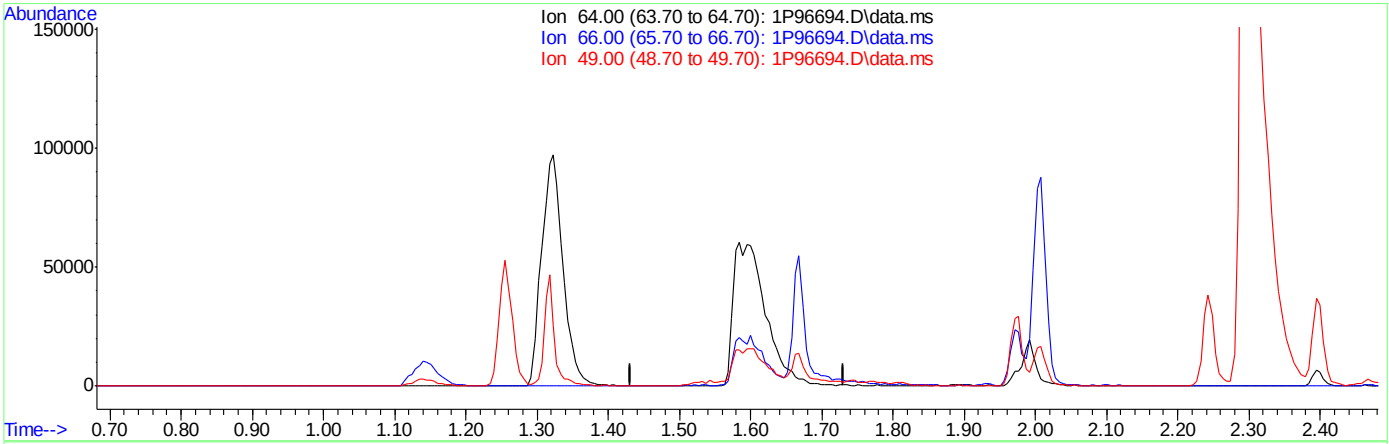
Sample Number: V1P3655-IC3655
Lab FileID: 1P96694.D
Injection Time: 12/29/22 14:41
Method: SW846 8260D
Analyst approved: 12/31/22 09:29 Adelard Lefebvre
Supervisor approved: 01/03/23 11:45 Karen Watson

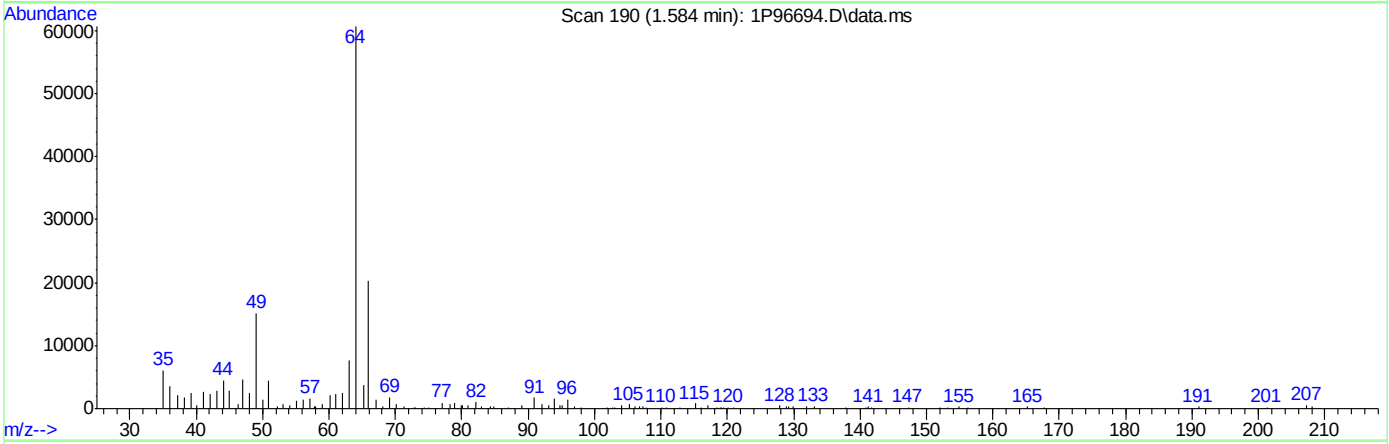
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chloroethane	75-00-3		1.58	Poor instrument integration
Ethyl Alcohol	64-17-5		1.99	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.57	Split peak
1-Chlorohexane	544-10-5		5.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96694.D
Acq On : 29 Dec 2022 2:41 pm
Operator : joannel
Sample : IC3655-7
Misc : MS52806,V1P3655,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 29 15:01:57 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96694.D\data.ms

(7) Chloroethane ( )

1.582min (-1.582) 0.00ug/L

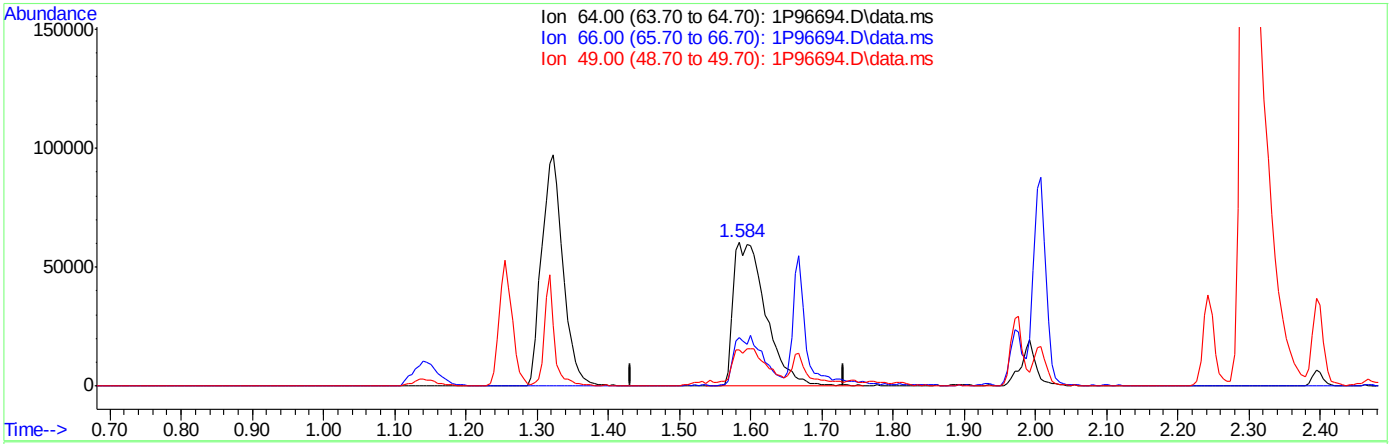
response 0

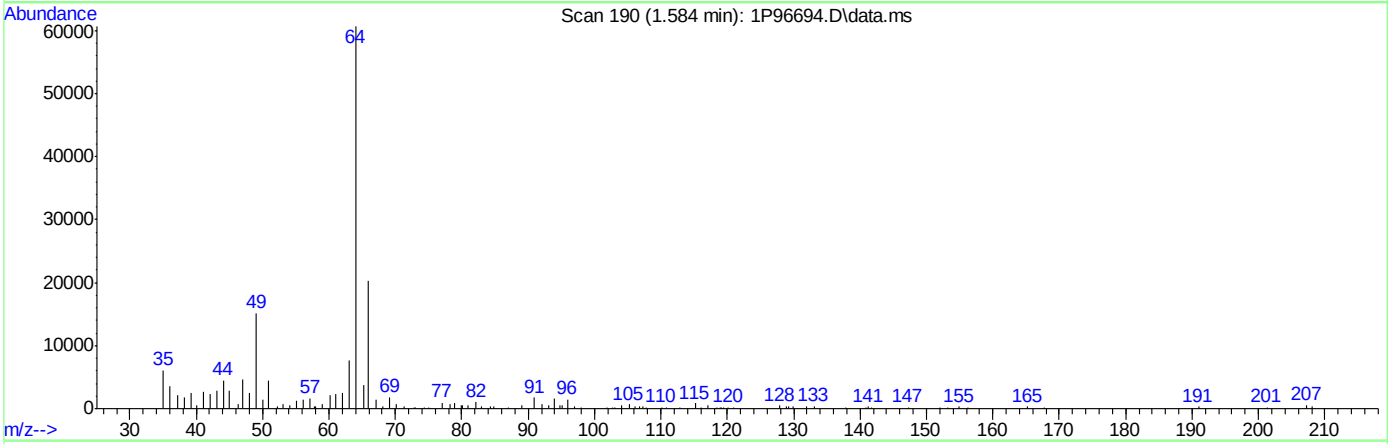
Ion	Exp%	Act%
64.00	100	0.00
66.00	32.60	0.00#
49.00	20.50	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96694.D
Acq On : 29 Dec 2022 2:41 pm
Operator : joannel
Sample : IC3655-7
Misc : MS52806,V1P3655,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 29 15:01:57 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96694.D\data.ms

(7) Chloroethane ( )

1.584min (+0.003) 69.02ug/L m

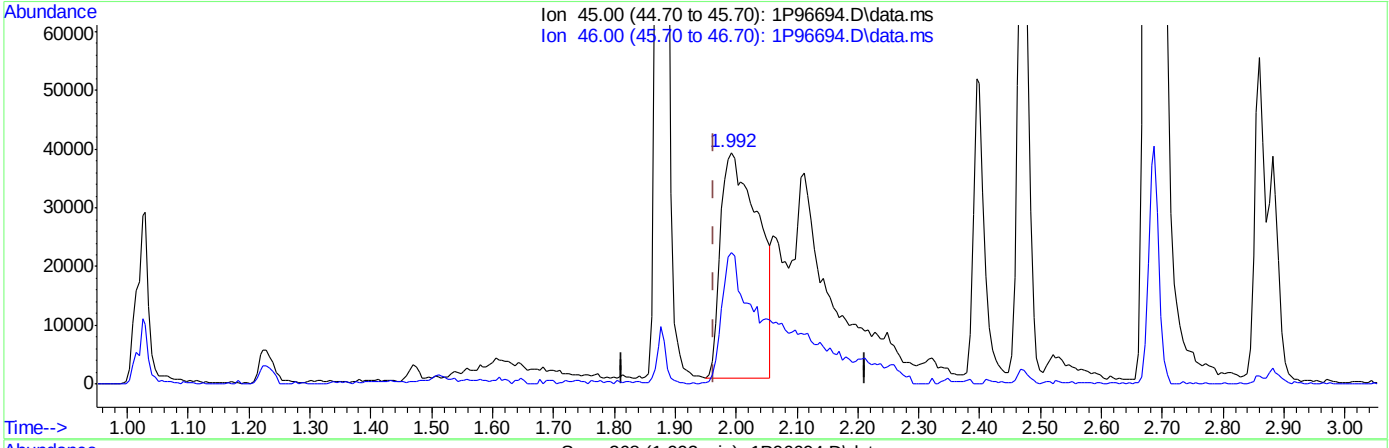
response 192729

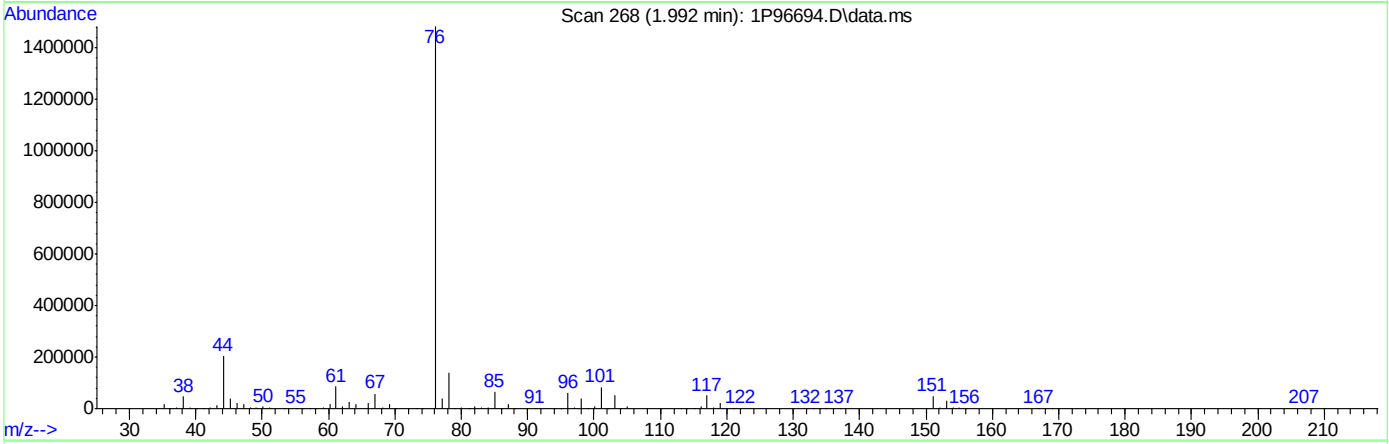
Ion	Exp%	Act%
64.00	100	100
66.00	32.60	33.33
49.00	20.50	25.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96694.D
Acq On : 29 Dec 2022 2:41 pm
Operator : joannel
Sample : IC3655-7
Misc : MS52806,V1P3655,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 29 15:01:57 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96694.D\data.ms

(10) Ethanol

1.992min (+0.029) 949.10ug/L

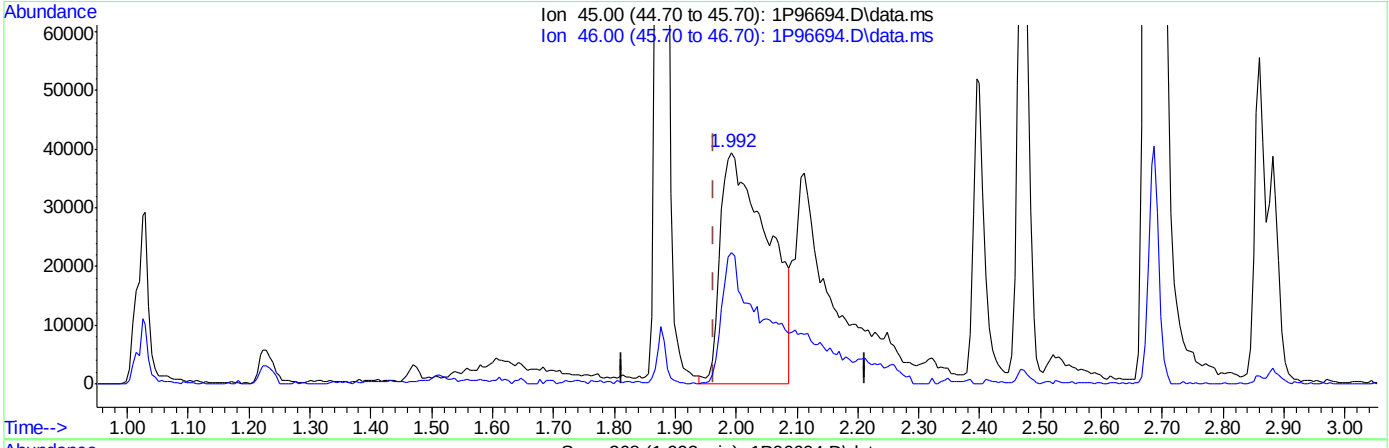
response 165289

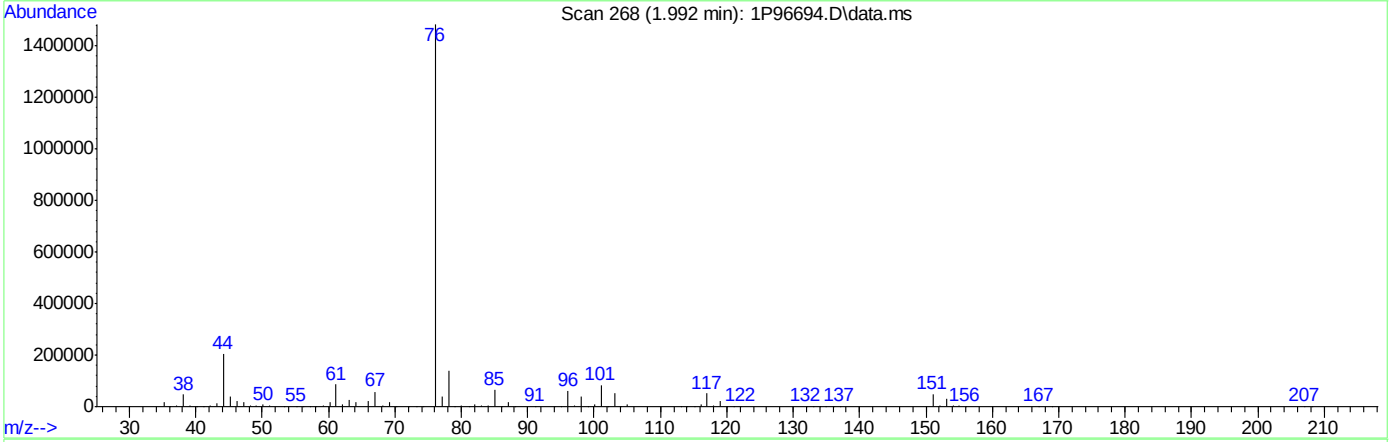
Ion	Exp%	Act%
45.00	100	100
46.00	41.00	57.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96694.D
Acq On : 29 Dec 2022 2:41 pm
Operator : joannel
Sample : IC3655-7
Misc : MS52806,V1P3655,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 29 15:01:57 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96694.D\data.ms

(10) Ethanol

1.992min (+0.029) 1326.32ug/L m

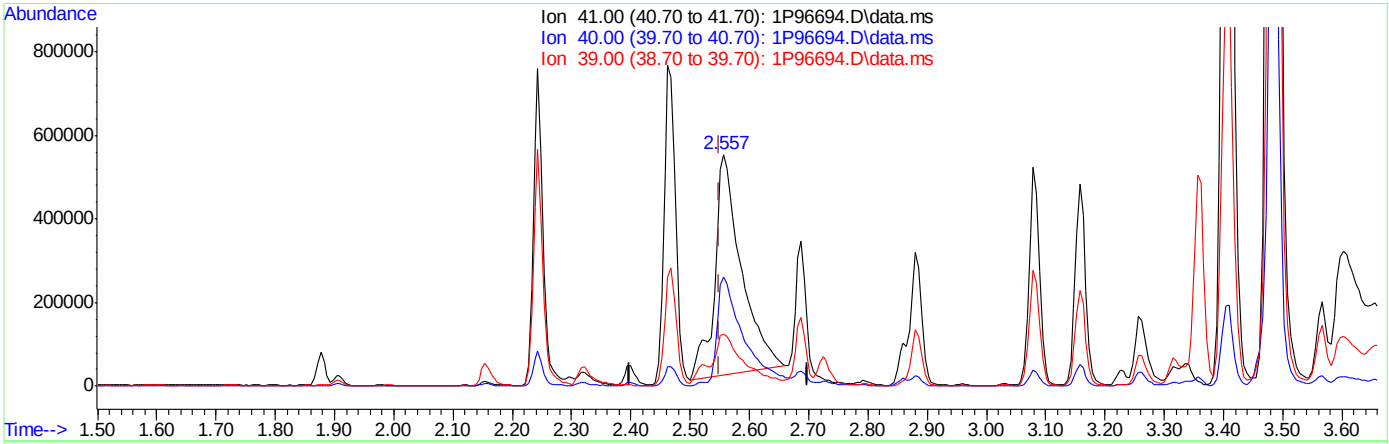
response 214590

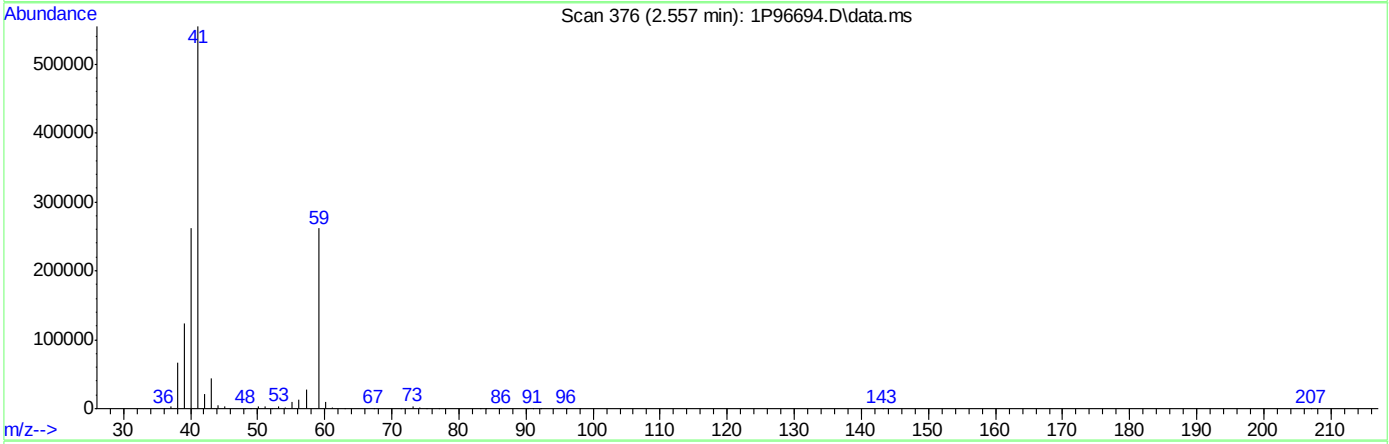
Ion	Exp%	Act%
45.00	100	100
46.00	41.00	56.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96694.D
Acq On : 29 Dec 2022 2:41 pm
Operator : joannel
Sample : IC3655-7
Misc : MS52806,V1P3655,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 29 15:01:57 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96694.D\data.ms

(25) Acetonitrile

2.557min (+0.008) -50.00ug/L

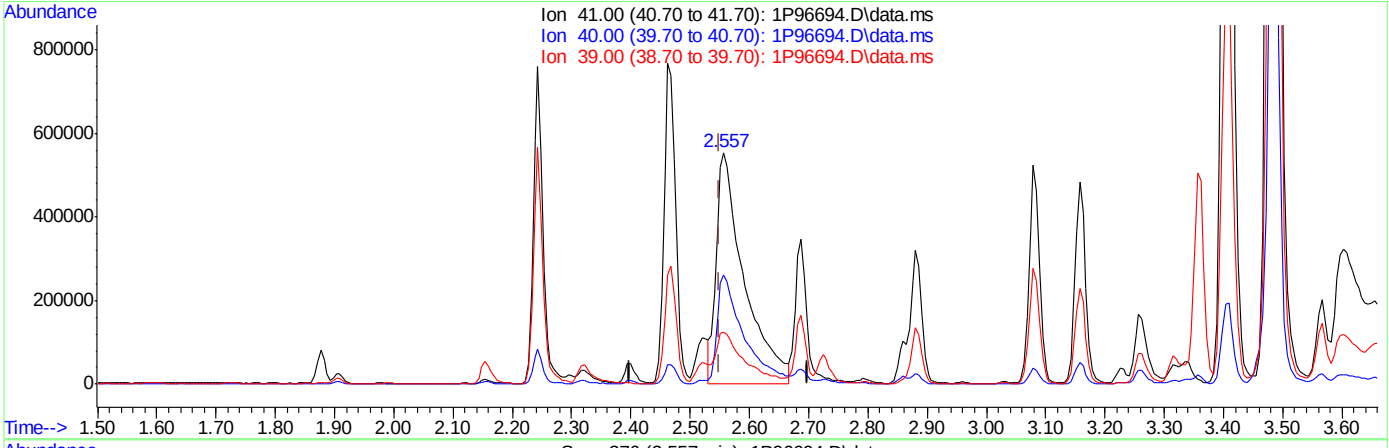
response 1638765

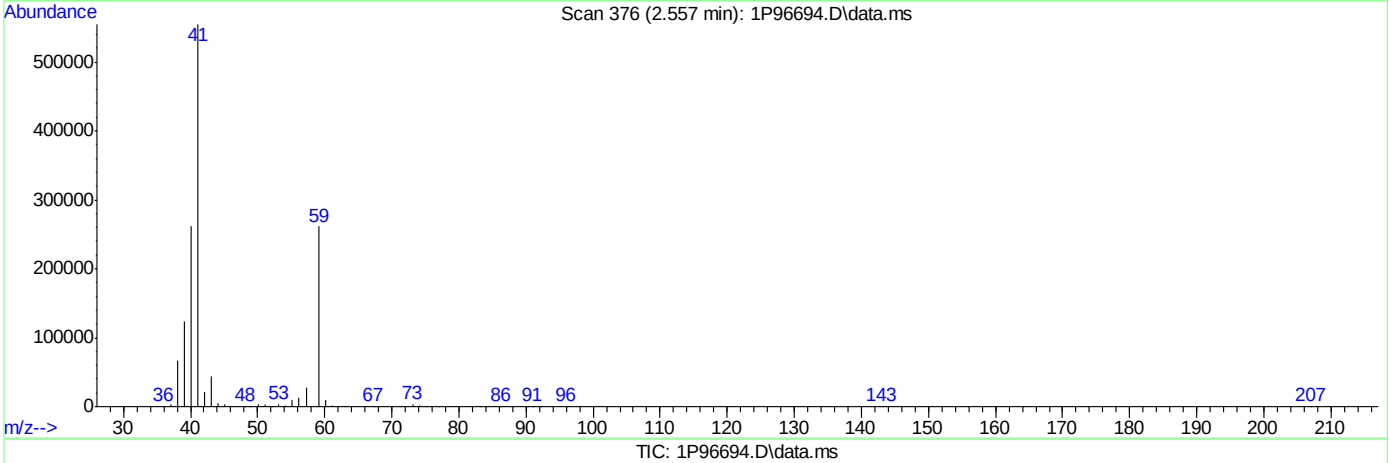
Ion	Exp%	Act%
41.00	100	100
40.00	51.50	48.25
39.00	19.80	21.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96694.D
Acq On : 29 Dec 2022 2:41 pm
Operator : joannel
Sample : IC3655-7
Misc : MS52806,V1P3655,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 29 15:01:57 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96694.D\data.ms

(25) Acetonitrile

2.557min (+0.008) -50.00ug/L m

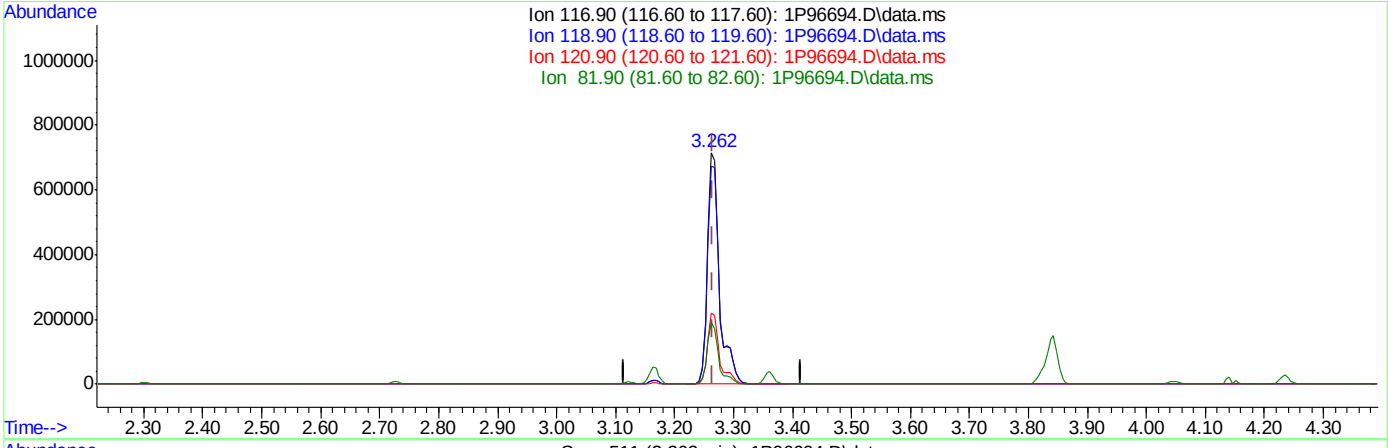
response 1808465

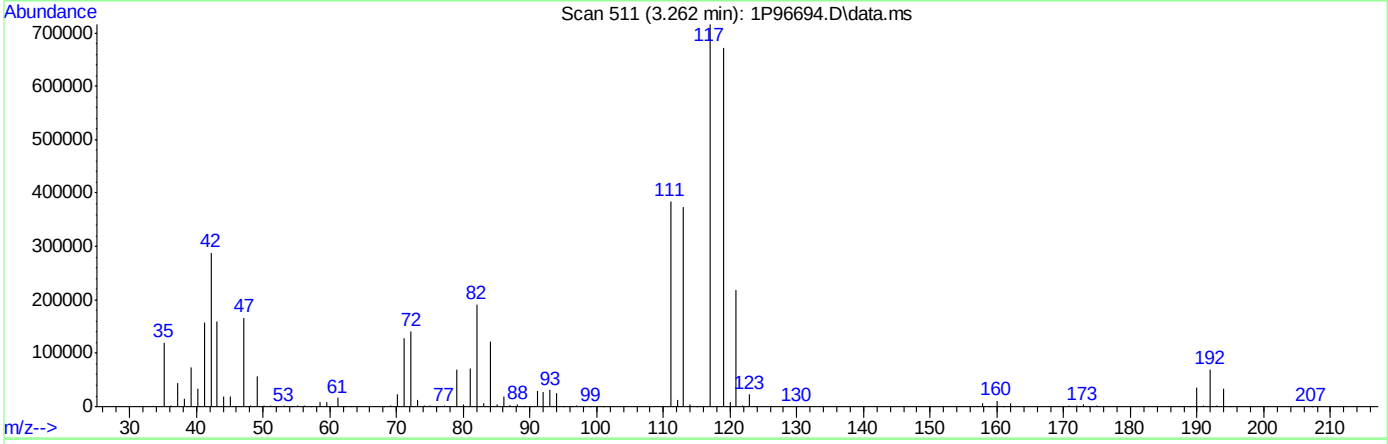
Ion	Exp%	Act%
41.00	100	100
40.00	51.50	47.13
39.00	19.80	22.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96694.D
Acq On : 29 Dec 2022 2:41 pm
Operator : joannel
Sample : IC3655-7
Misc : MS52806,V1P3655,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 29 15:01:57 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96694.D\data.ms

(40) Carbon Tetrachloride ( )

3.262min (-0.003) 94.65ug/L

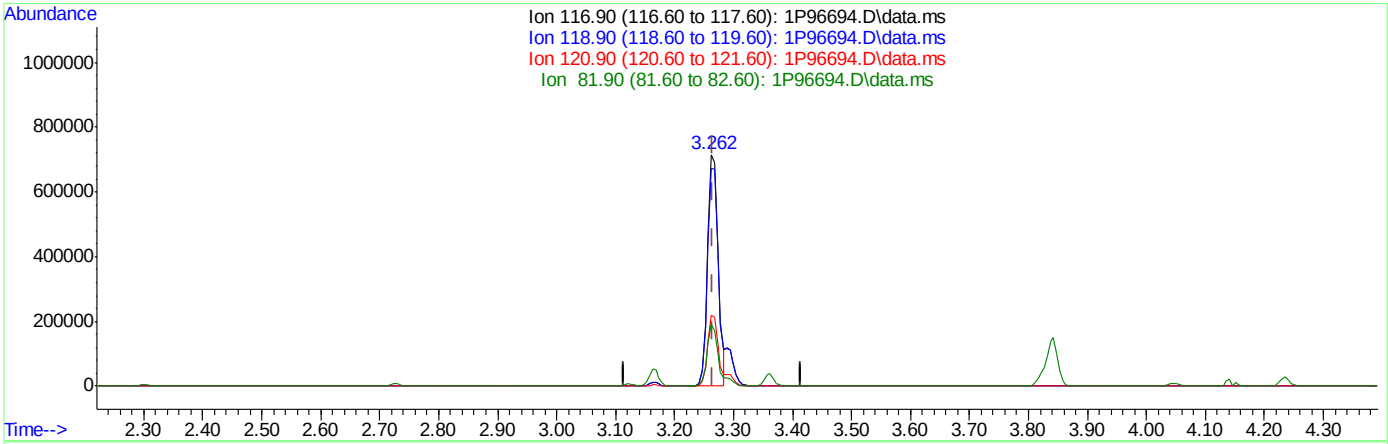
response 1015293

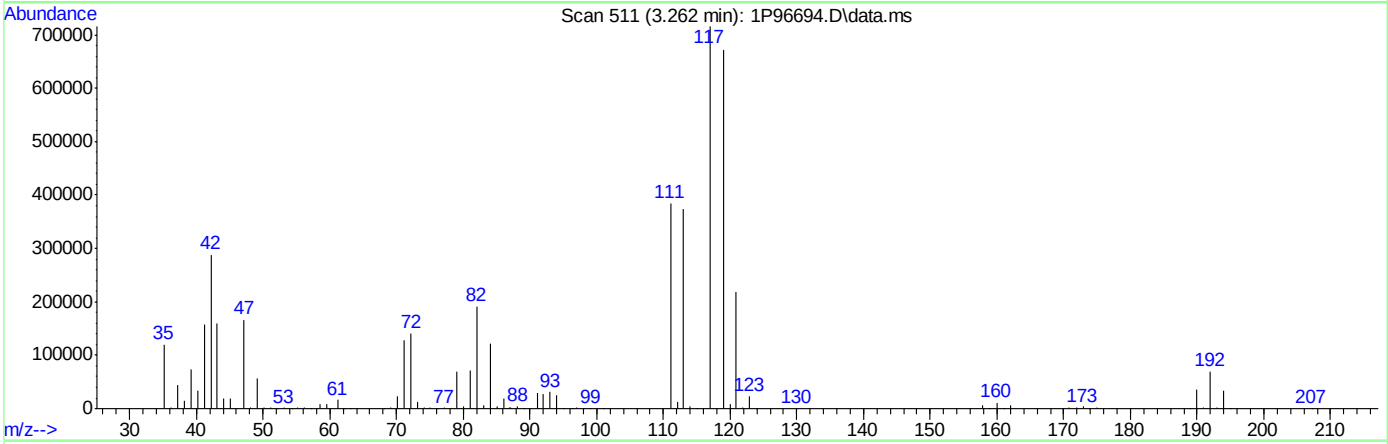
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	93.85
120.90	30.60	30.61
81.90	24.90	26.67

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96694.D
Acq On : 29 Dec 2022 2:41 pm
Operator : joannel
Sample : IC3655-7
Misc : MS52806,V1P3655,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 29 15:01:57 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96694.D\data.ms

(40) Carbon Tetrachloride ( )

3.262min (-0.003) 83.33ug/L m

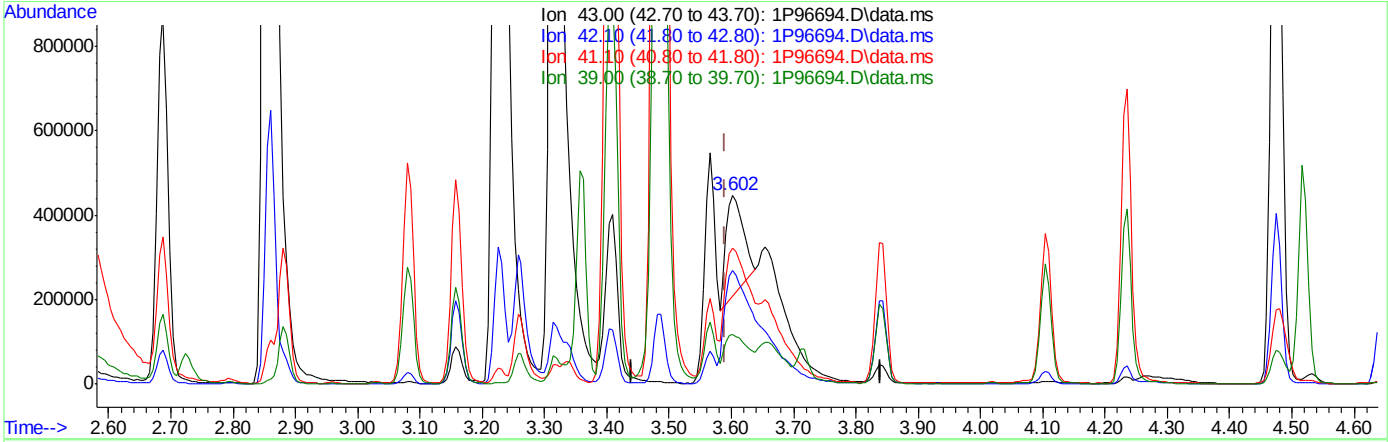
response 893864

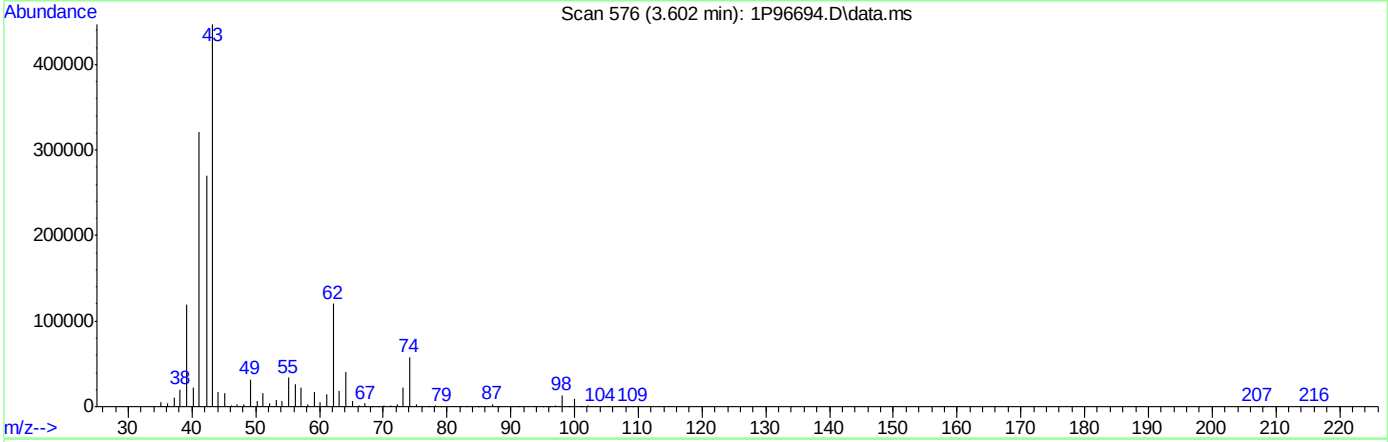
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	93.85
120.90	30.60	30.61
81.90	24.90	26.72

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96694.D
Acq On : 29 Dec 2022 2:41 pm
Operator : joannel
Sample : IC3655-7
Misc : MS52806,V1P3655,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 29 15:01:57 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96694.D\data.ms

(50) Isobutyl alcohol

3.602min (+0.012) 521.21ug/L

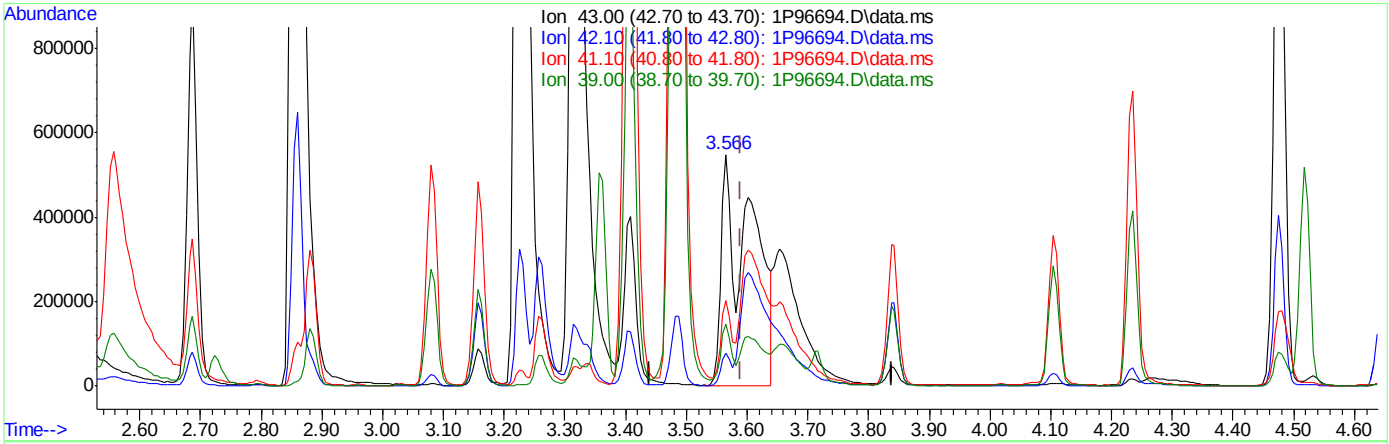
response 450472

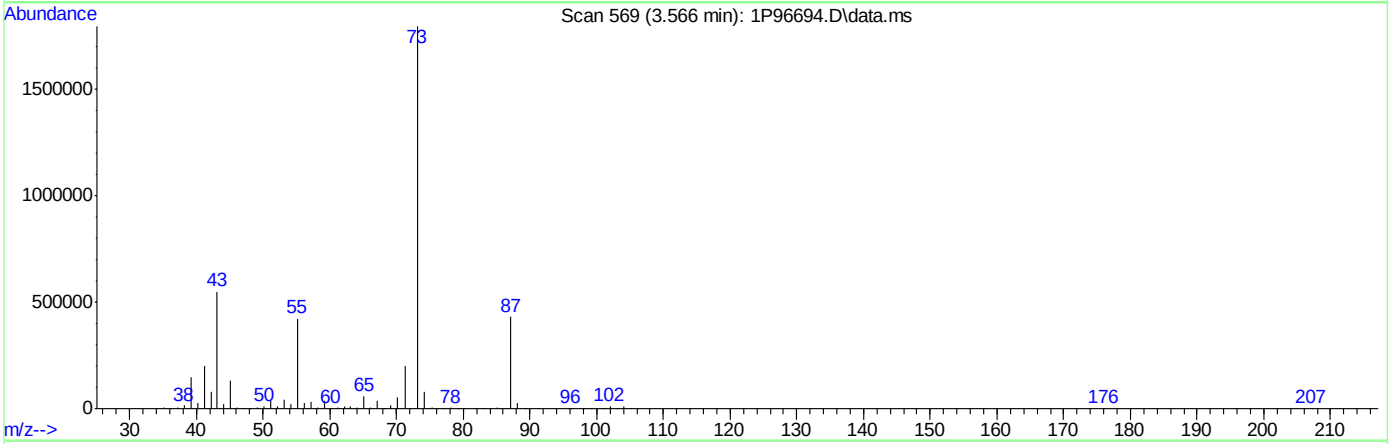
Ion	Exp%	Act%
43.00	100	100
42.10	58.50	74.38
41.10	71.10	80.45
39.00	23.40	25.20

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96694.D
Acq On : 29 Dec 2022 2:41 pm
Operator : joannel
Sample : IC3655-7
Misc : MS52806,V1P3655,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 29 15:01:57 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96694.D\data.ms

(50) Isobutyl alcohol

3.566min (-0.024) 2182.26ug/L m

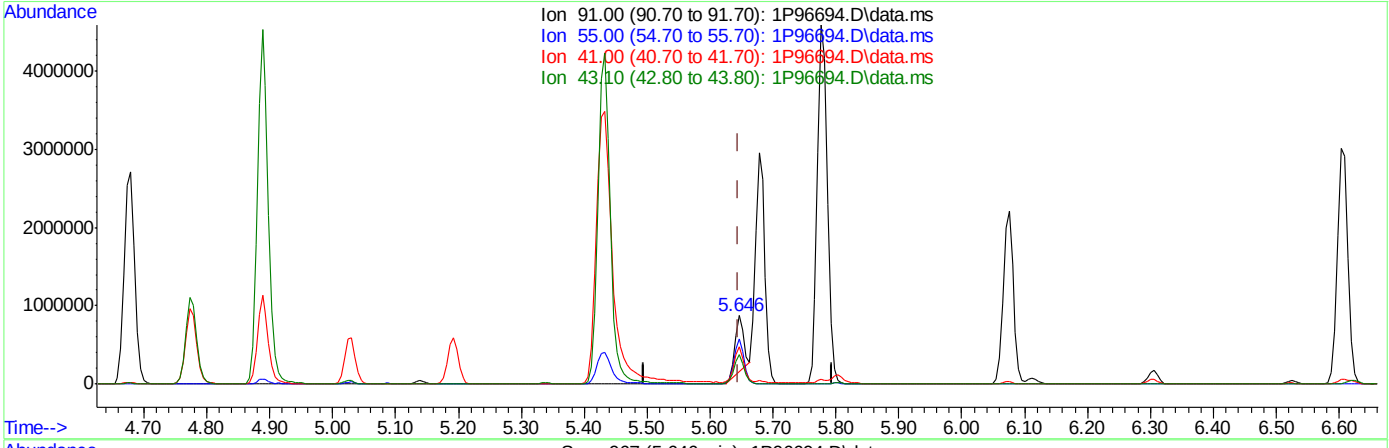
response 1886107

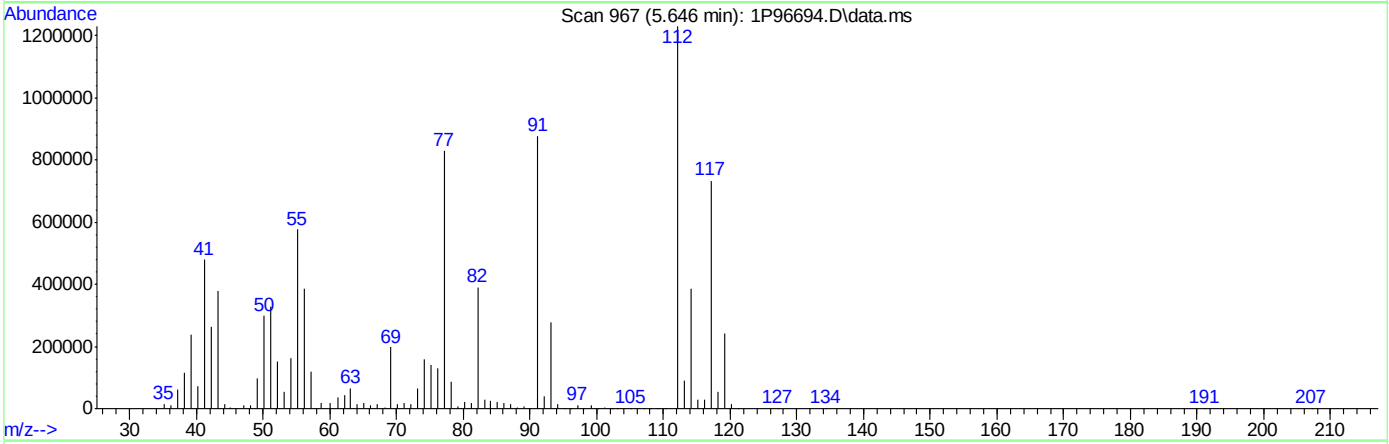
Ion	Exp%	Act%
43.00	100	100
42.10	58.50	14.41
41.10	71.10	36.94
39.00	23.40	26.62

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96694.D
Acq On : 29 Dec 2022 2:41 pm
Operator : joannel
Sample : IC3655-7
Misc : MS52806,V1P3655,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 29 15:01:57 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96694.D\data.ms

(76) 1-Chlorohexane

5.646min (+0.001) 67.05ug/L

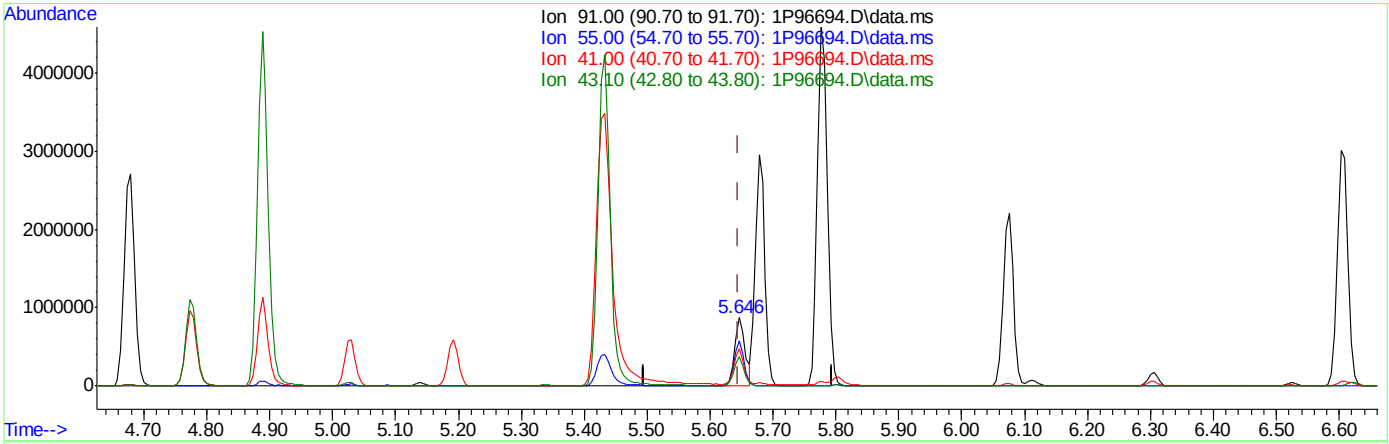
response 664639

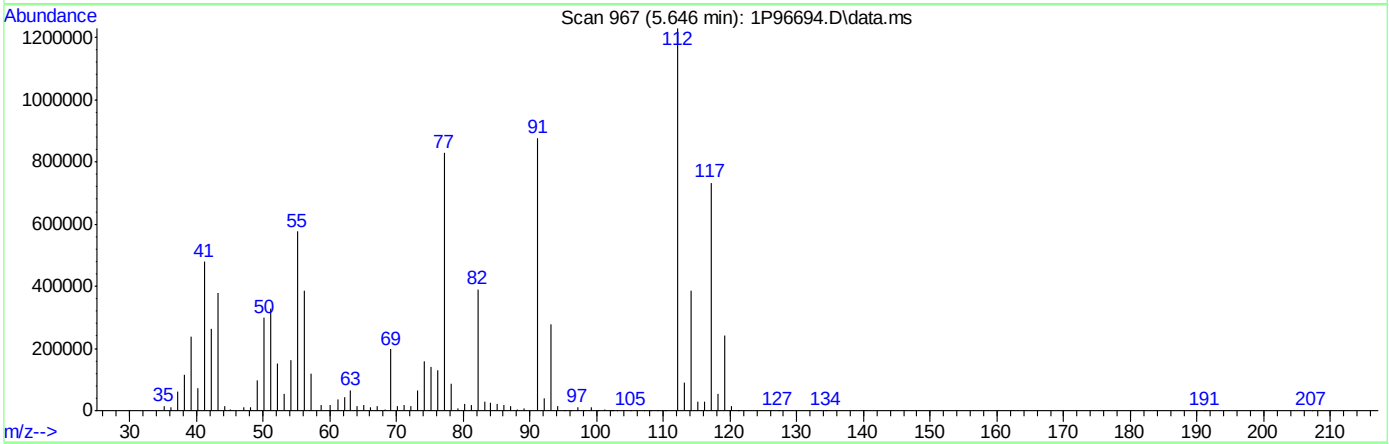
Ion	Exp%	Act%
91.00	100	100
55.00	71.50	64.80
41.00	56.40	51.51
43.10	47.80	41.87

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96694.D
Acq On : 29 Dec 2022 2:41 pm
Operator : joannel
Sample : IC3655-7
Misc : MS52806,V1P3655,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 29 15:01:57 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Wed Dec 14 15:34:34 2022
Response via : Initial Calibration





TIC: 1P96694.D\data.ms

(76) 1-Chlorohexane

5.646min (+0.001) 99.48ug/L m

response 986145

Ion	Exp%	Act%
91.00	100	100
55.00	71.50	65.71
41.00	56.40	54.48
43.10	47.80	43.02

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/03/23 11:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96698.D
Acq On : 29 Dec 2022 3:45 pm
Operator : joannel
Sample : ICV3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 31 09:21:03 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.714	96	1885096	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.638	117	1247036	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.327	152	550247	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.259	113	415381	51.36	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.72%			
49) 1,2-Dichloroethane-d4	3.547	65	541594	49.86	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.72%			
63) Toluene-d8	4.645	98	1761987	49.82	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.64%			
86) 4-Bromofluorobenzene	6.490	174	462976	52.41	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.82%			
Target Compounds						Qvalue
3) Chloromethane	1.252	50	215408	32.55	ug/L	97
4) 1,3-butadiene	1.314	39	239162	60.86	ug/L	98
5) Vinyl Chloride	1.309	62	217352	33.36	ug/L	98
9) Ethyl Ether	1.874	59	218492	34.01	ug/L	98
10) Ethanol	1.963	45	95183	623.42	ug/L	99
12) 1,1-Dichloroethene	1.973	61	327943	35.63	ug/L	98
13) Freon 113	2.005	101	198556	35.20	ug/L	97
14) Carbon Disulfide	1.994	76	642184	38.94	ug/L	99
15) Iodomethane	2.052	142	215215	36.23	ug/L	99
16) Acrolein	2.151	56	332917	146.32	ug/L	99
17) Allyl chloride	2.240	41	335307	35.97	ug/L	98
18) Methylene Chloride	2.297	49	285319	35.50	ug/L	96
19) Acetone	2.313	43	699214	166.94	ug/L	98
20) Methyl acetate	2.391	43	1682412	185.09	ug/L	99
21) trans-1,2-Dichloroethene	2.397	61	334790	36.26	ug/L	99
22) Hexane	2.465	56	179643m	34.40	ug/L	
23) Methyl Tert Butyl Ether	2.465	73	801022	36.40	ug/L	95
24) Tert Butyl Alcohol	2.506	59	742088	363.89	ug/L	98
25) Acetonitrile	2.548	41	618379m	326.20	ug/L	
26) Di-isopropyl ether	2.684	45	778102	36.39	ug/L	99
27) Chloroprene	2.721	53	1149954	37.42	ug/L	97
28) 1,1-Dichloroethane	2.726	63	441852	37.16	ug/L	98
29) Acrylonitrile	2.726	52	747715	184.04	ug/L	98
30) ETBE	2.878	59	755386	35.50	ug/L	99
31) Vinyl acetate	2.857	43	3259214	209.47	ug/L	100
32) cis-1,2-Dichloroethene	3.019	96	266582	36.91	ug/L	98
33) 2,2-Dichloropropane	3.081	77	347315	33.71	ug/L	99
34) Bromochloromethane	3.123	128	116265	38.44	ug/L	98
35) Cyclohexane	3.160	56	372540	35.67	ug/L	98
36) Chloroform	3.165	83	447078	36.38	ug/L	98
37) Ethyl acetate	3.223	43	2184002	191.02	ug/L	100
38) Tetrahydrofuran	3.254	42	169113	36.49	ug/L	97
40) Carbon Tetrachloride	3.264	117	290926m	37.34	ug/L	
41) 1,1,1-Trichloroethane	3.291	97	371651	35.92	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96698.D
Acq On : 29 Dec 2022 3:45 pm
Operator : joannel
Sample : ICV3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 31 09:21:03 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2-Butanone	3.312	43	1236679	165.71	ug/L	98
43) 1,1-Dichloropropene	3.359	75	333842	34.44	ug/L	98
44) tert-Butyl formate	3.406	59	615159	136.08	ug/L	97
45) Propionitrile	3.458	54	665536	329.59	ug/L	96
46) Methacrylonitrile	3.479	41	2341091	332.36	ug/L	99
47) Benzene	3.489	78	1039912	34.73	ug/L	91
48) TAME	3.562	73	747109	35.83	ug/L	99
50) Isobutyl alcohol	3.589	43	720777m	682.62	ug/L	
51) 1,2-Dichloroethane	3.583	62	333879	34.16	ug/L	99
52) Tert Amyl Alcohol	3.651	59	609080	375.33	ug/L	97
53) Trichloroethene	3.824	95	261635	35.16	ug/L	98
54) Methylcyclohexane	3.840	83	363685	35.73	ug/L	97
55) Dibromomethane	4.043	93	149208	35.18	ug/L	94
56) 1,2-Dichloropropane	4.106	63	234412	33.83	ug/L	99
57) Bromodichloromethane	4.143	83	302869	37.94	ug/L	96
58) Methyl methacrylate	4.232	41	301865	36.29	ug/L	98
59) 1,4-Dioxane	4.263	88	117641	718.39	ug/L	96
60) 2-Chloroethyl vinyl ether	4.472	63	1045436	178.52	ug/L	99
61) cis-1,3-Dichloropropene	4.519	75	382326	35.96	ug/L	98
64) Toluene	4.676	91	1078198	34.79	ug/L	100
65) 2-Nitropropane	4.770	41	308377	181.51	ug/L	96
66) 4-Methyl-2-pentanone	4.885	43	2029604	164.88	ug/L	99
67) trans-1,3-Dichloropropene	4.917	75	362569	39.03	ug/L	83
68) Tetrachloroethene	4.932	166	256501	36.73	ug/L	99
69) Ethyl methacrylate	5.026	69	368682	34.10	ug/L	98
70) 1,1,2-Trichloroethane	5.016	83	187338	35.94	ug/L	97
71) Dibromochloromethane	5.141	129	192906	36.66	ug/L	95
72) 1,3-Dichloropropane	5.194	76	387401	33.75	ug/L	97
73) 1,2-Dibromoethane	5.293	107	236284	36.84	ug/L	99
74) 3,3-dimethyl-1-butanol	5.429	57	3179925	1823.06	ug/L	100
75) 2-hexanone	5.429	43	2110889	170.98	ug/L	94
76) 1-Chlorohexane	5.643	91	325009m	34.73	ug/L	
77) Ethylbenzene	5.680	91	1135660	35.62	ug/L	98
78) Chlorobenzene	5.648	112	625274	35.45	ug/L	98
79) 1,1,1,2-Tetrachloroethane	5.695	131	204474	37.88	ug/L	99
80) m,p-Xylene	5.779	91	1769489	71.30	ug/L	99
81) o-Xylene	6.072	91	900872	36.64	ug/L	99
82) Styrene	6.103	104	713643	37.52	ug/L	98
83) Bromoform	6.114	173	117111	39.27	ug/L	99
84) Isopropylbenzene	6.302	105	1059253	36.51	ug/L	99
88) n-Propylbenzene	6.605	91	1193053	36.48	ug/L	98
89) Bromobenzene	6.569	156	241061	35.95	ug/L	93
90) 1,1,2,2-Tetrachloroethane	6.626	83	326174	36.45	ug/L	99
91) 1,3,5-Trimethylbenzene	6.752	105	820091	35.83	ug/L	98
92) 2-Chlorotoluene	6.710	91	706937	36.00	ug/L	98
93) trans-1,4-Dichloro-2-B...	6.752	53	126660	37.97	ug/L	92
94) 1,2,3-Trichloropropane	6.720	110	112614	33.85	ug/L	98
95) Cyclohexanone	6.746	55	107066	192.57	ug/L	97
96) 4-Chlorotoluene	6.830	91	745429	36.56	ug/L	98
97) tert-Butylbenzene	6.987	91	450187	35.65	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96698.D
Acq On : 29 Dec 2022 3:45 pm
Operator : joannel
Sample : ICV3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 31 09:21:03 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

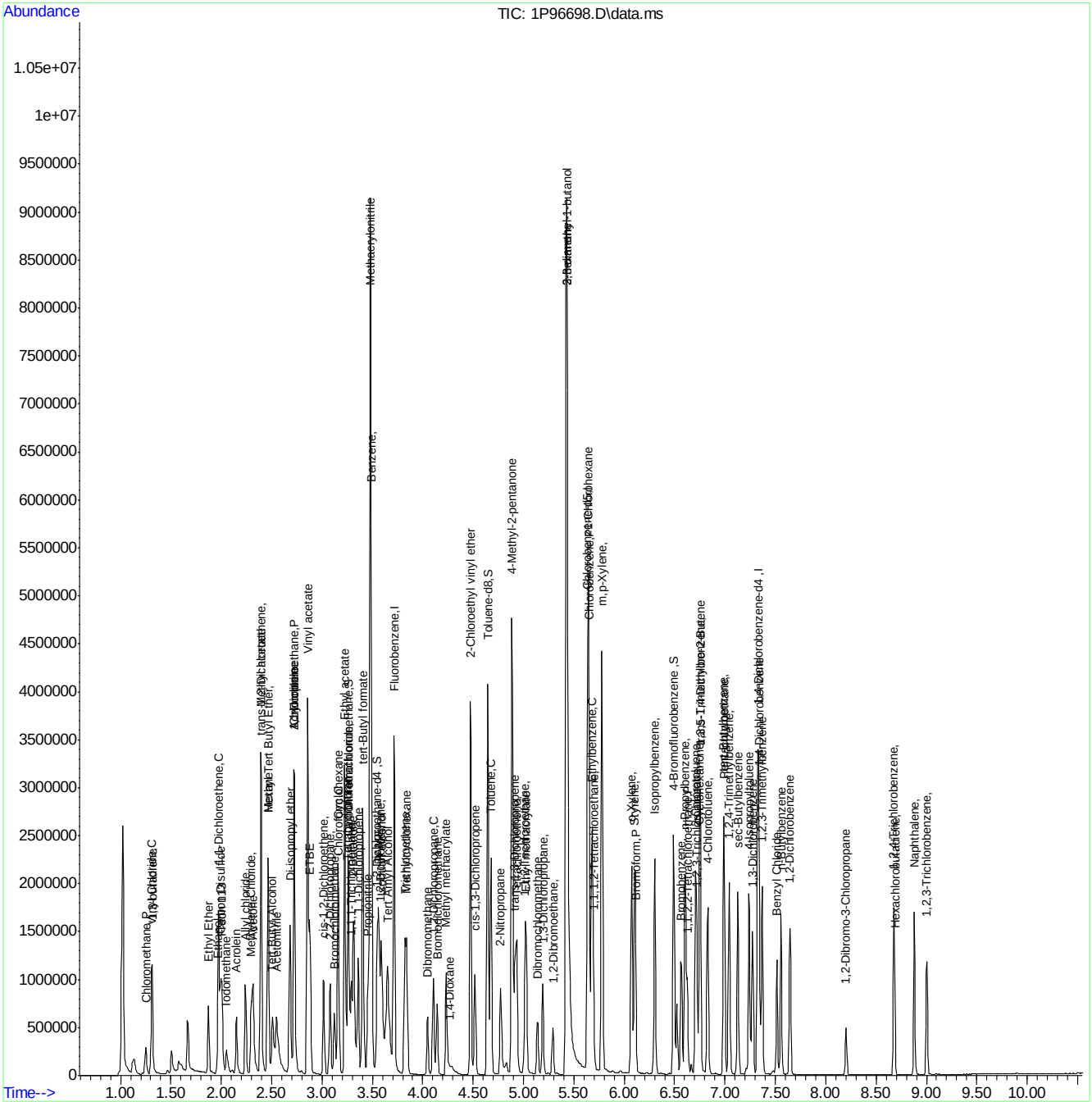
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
99) 1,2,4-Trimethylbenzene	7.039	105	800044	36.85	ug/L		98
100) Pentachloroethane	6.992	167	115542	37.51	ug/L	#	89
101) sec-Butylbenzene	7.128	105	952879	37.82	ug/L		99
102) 4-Isopropyltoluene	7.238	119	821811	38.51	ug/L		98
103) 1,3-Dichlorobenzene	7.274	146	451181	37.22	ug/L		98
104) 1,2,3-Trimethylbenzene	7.368	105	822155	38.72	ug/L		99
105) 1,4-Dichlorobenzene	7.337	146	453605	36.23	ug/L		96
106) n-Butylbenzene	7.557	92	353257	35.09	ug/L		98
107) Benzyl Chloride	7.515	126	116989	37.98	ug/L		93
108) 1,2-Dichlorobenzene	7.646	146	423311	37.35	ug/L		98
109) 1,2-Dibromo-3-Chloropr...	8.200	75	76364	36.19	ug/L		91
110) Hexachlorobutadiene	8.686	225	84293	37.31	ug/L		93
111) 1,2,4-Trichlorobenzene	8.675	180	232527	38.08	ug/L		98
112) Naphthalene	8.879	128	826570	37.66	ug/L		98
113) 1,2,3-Trichlorobenzene	9.005	180	222116	38.12	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96698.D
Acq On : 29 Dec 2022 3:45 pm
Operator : joannel
Sample : ICV3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 31 09:21:03 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration



Manual Integration Approval Summary

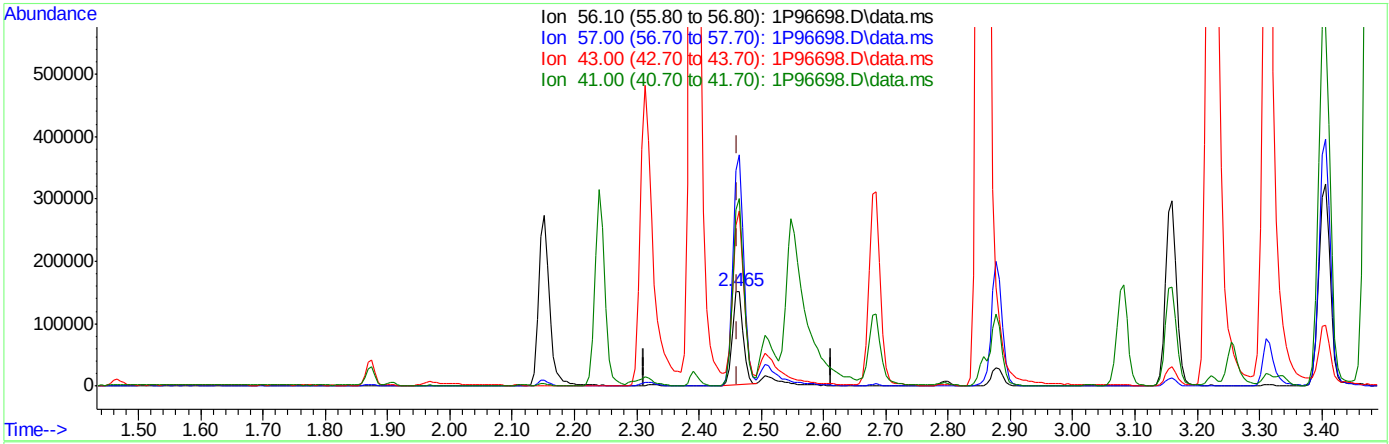
Sample Number: V1P3655-ICV3655 **Method:** SW846 8260D
Lab FileID: 1P96698.D **Analyst approved:** 12/31/22 09:29 Adelard Lefebvre
Injection Time: 12/29/22 15:45 **Supervisor approved:** 01/03/23 11:45 Karen Watson

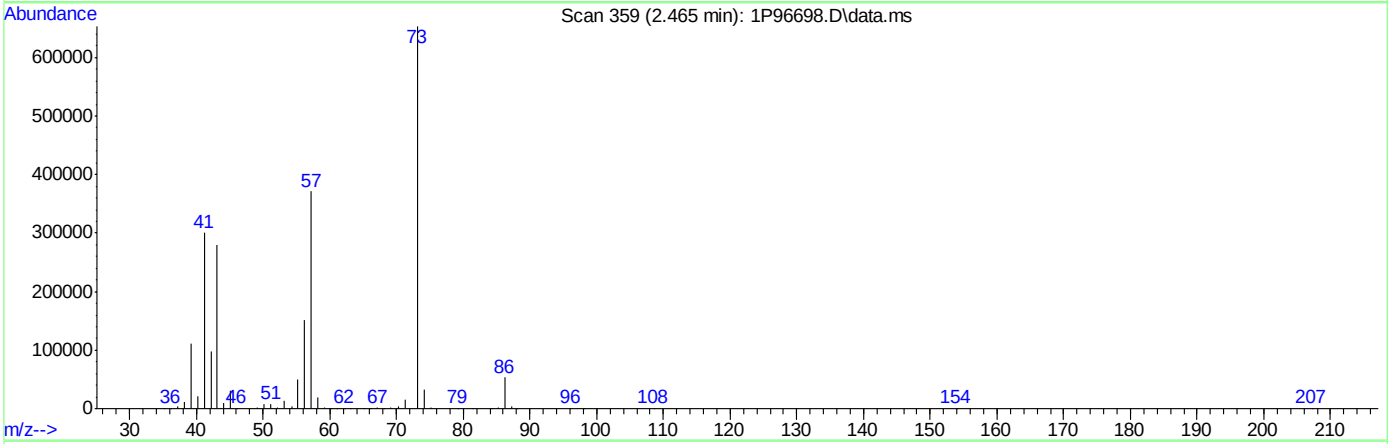
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexane	110-54-3		2.46	Overlapping peak
Acetonitrile	75-05-8		2.55	Poor instrument integration
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Split peak
1-Chlorohexane	544-10-5		5.64	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96698.D
Acq On : 29 Dec 2022 3:45 pm
Operator : joannel
Sample : ICV3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 31 08:41:53 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P96698.D\data.ms

(22) Hexane

2.465min (+0.002) 32.90ug/L

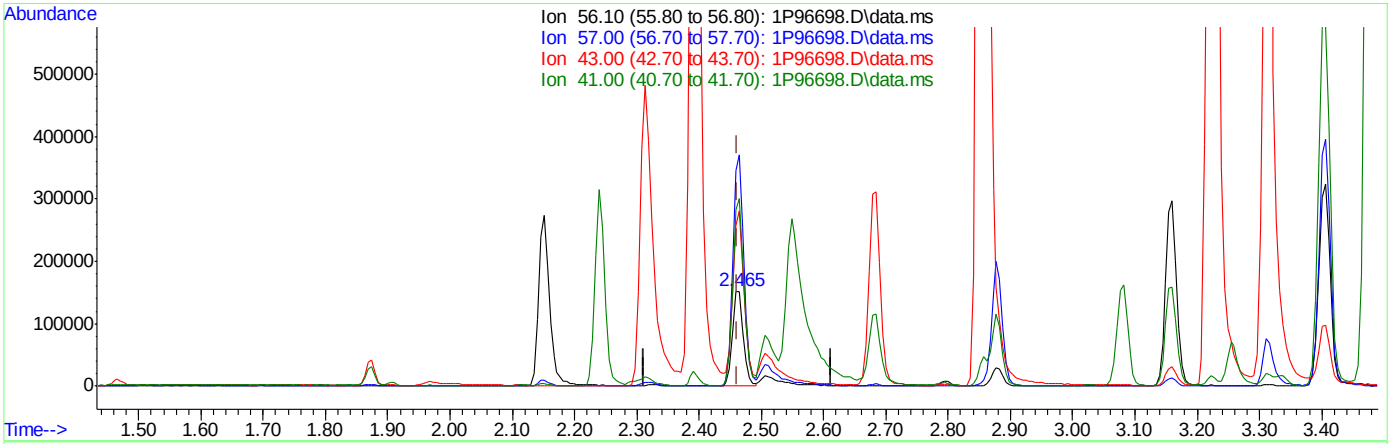
response 171827

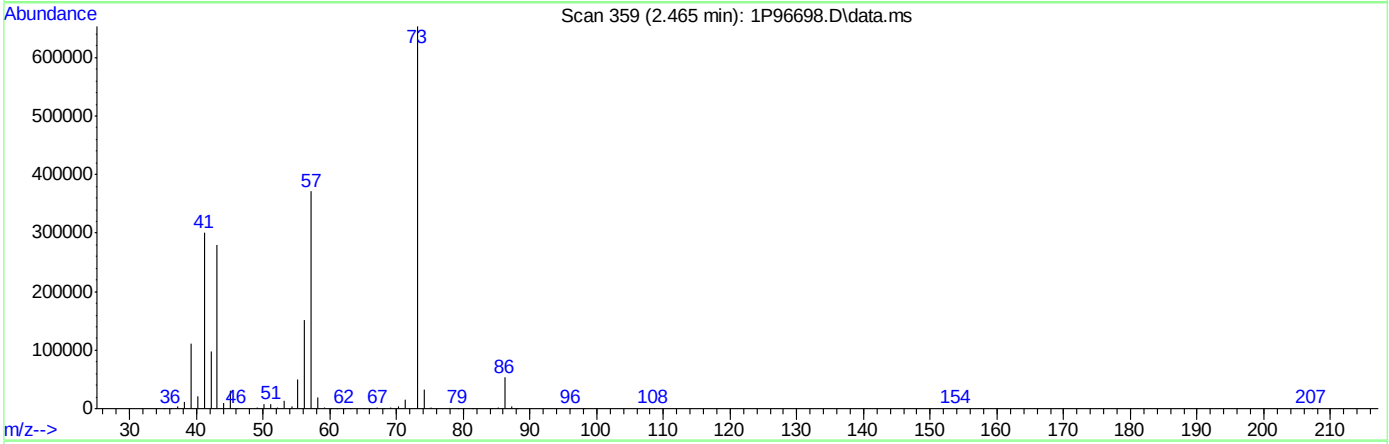
Ion	Exp%	Act%
56.10	100	100
57.00	242.30	244.28
43.00	181.80	174.23
41.00	200.30	197.21

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96698.D
Acq On : 29 Dec 2022 3:45 pm
Operator : joannel
Sample : ICV3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 31 08:41:53 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P96698.D\data.ms

(22) Hexane

2.465min (+0.002) 34.40ug/L m

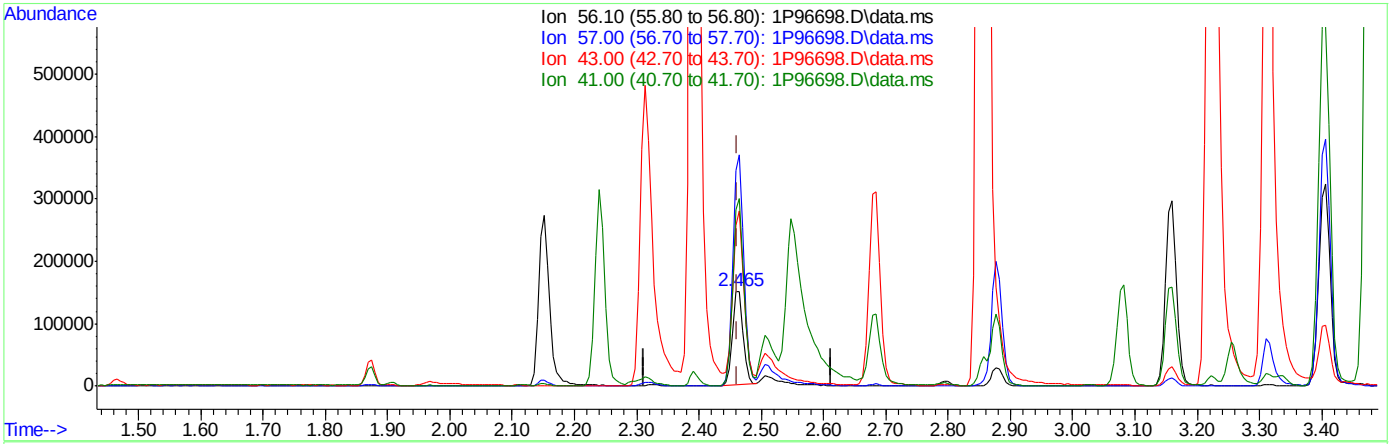
response 179643

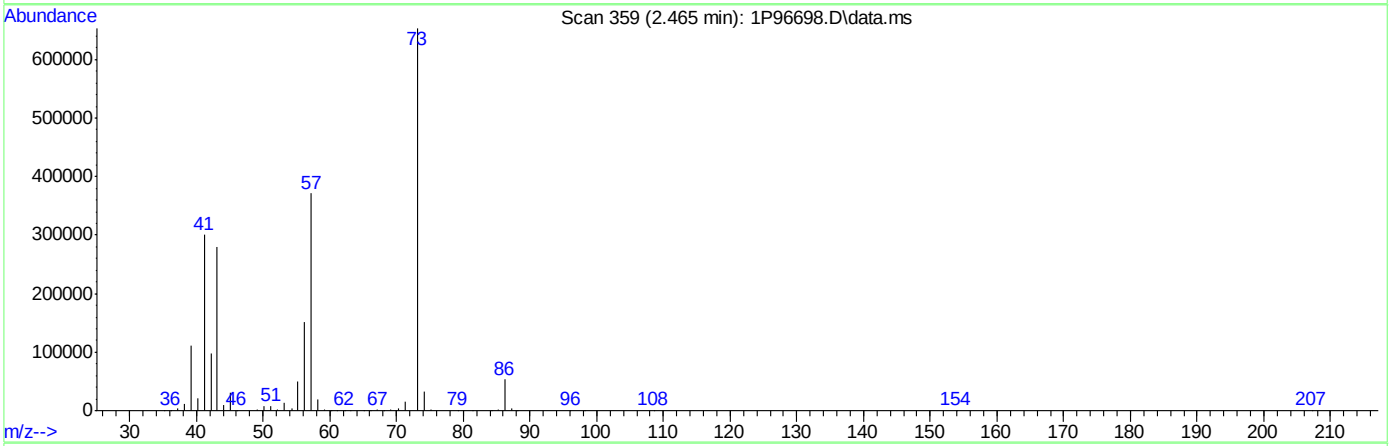
Ion	Exp%	Act%
56.10	100	100
57.00	242.30	243.99
43.00	181.80	184.40
41.00	200.30	197.39

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96698.D
Acq On : 29 Dec 2022 3:45 pm
Operator : joannel
Sample : ICV3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 31 08:41:53 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P96698.D\data.ms

(22) Hexane

2.465min (+0.002) 32.90ug/L

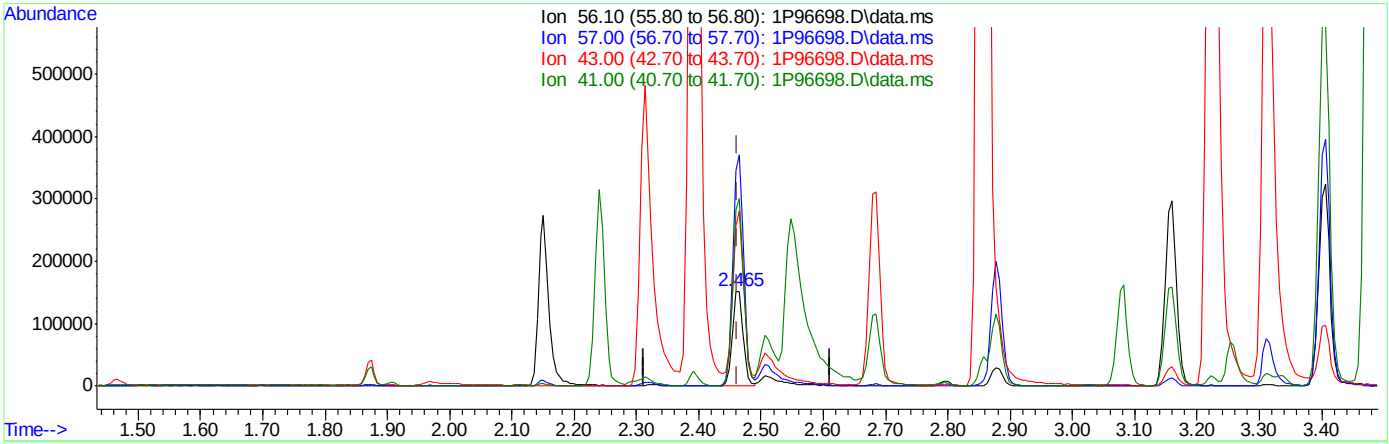
response 171827

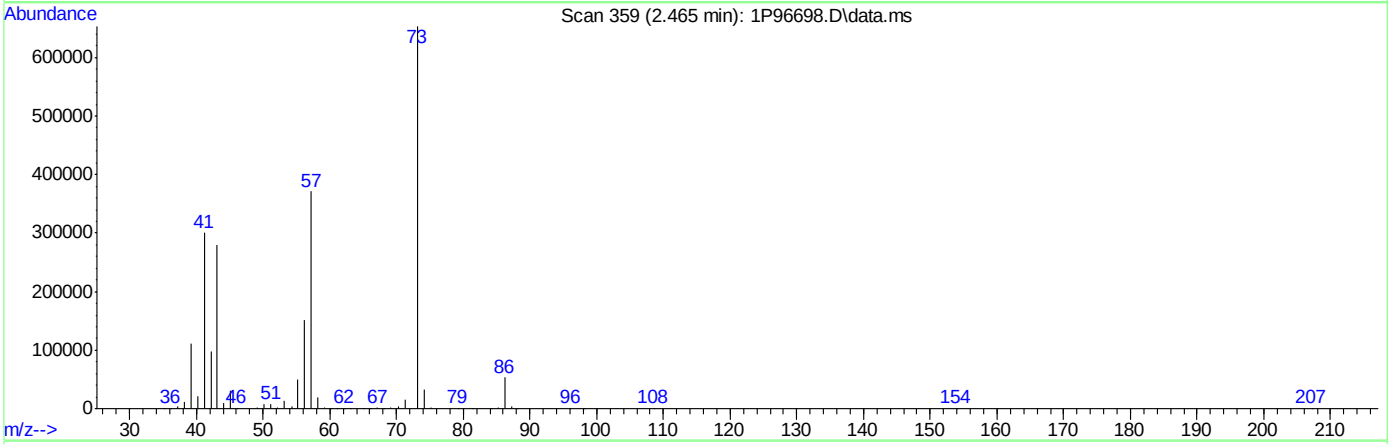
Ion	Exp%	Act%
56.10	100	100
57.00	242.30	244.28
43.00	181.80	174.23
41.00	200.30	197.21

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96698.D
Acq On : 29 Dec 2022 3:45 pm
Operator : joannel
Sample : ICV3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 31 08:41:53 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P96698.D\data.ms

(22) Hexane

2.465min (+0.002) 34.40ug/L m

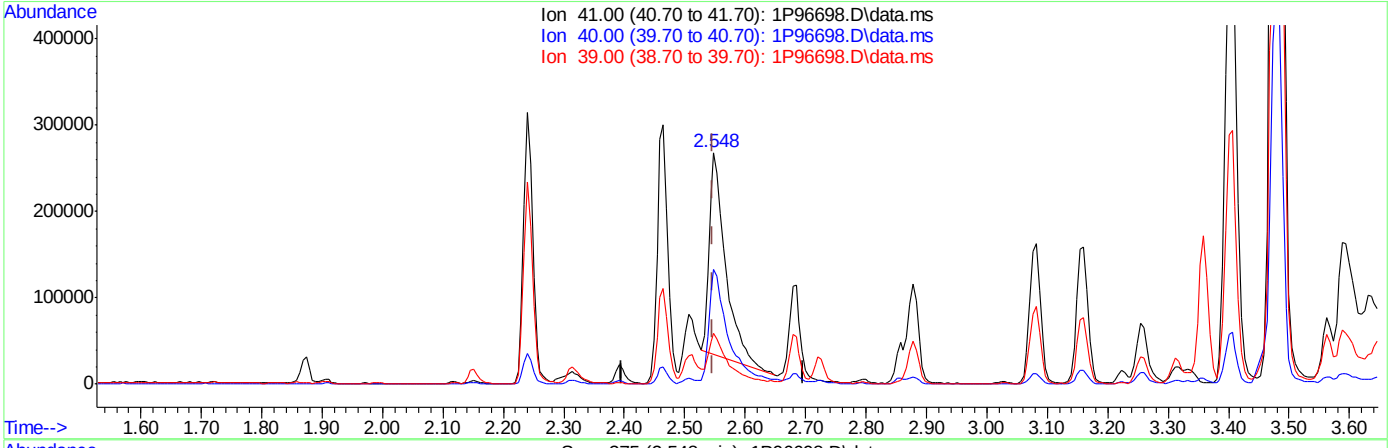
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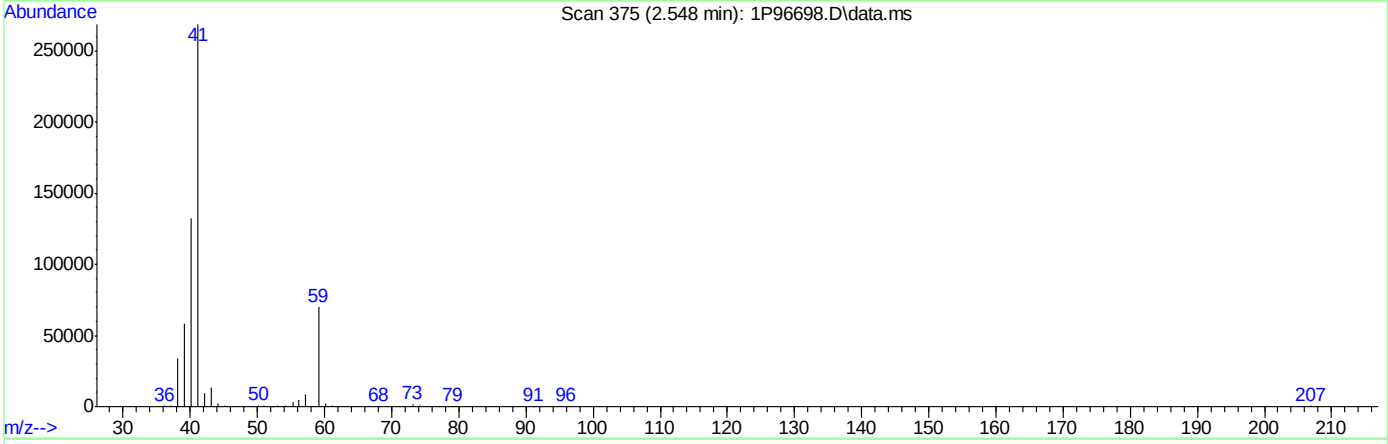
Ion	Exp%	Act%
56.10	100	100
57.00	242.30	243.99
43.00	181.80	184.40
41.00	200.30	197.39

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96698.D
Acq On : 29 Dec 2022 3:45 pm
Operator : joannel
Sample : ICV3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 31 08:41:53 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P96698.D\data.ms

(25) Acetonitrile

2.548min (+0.002) 231.60ug/L

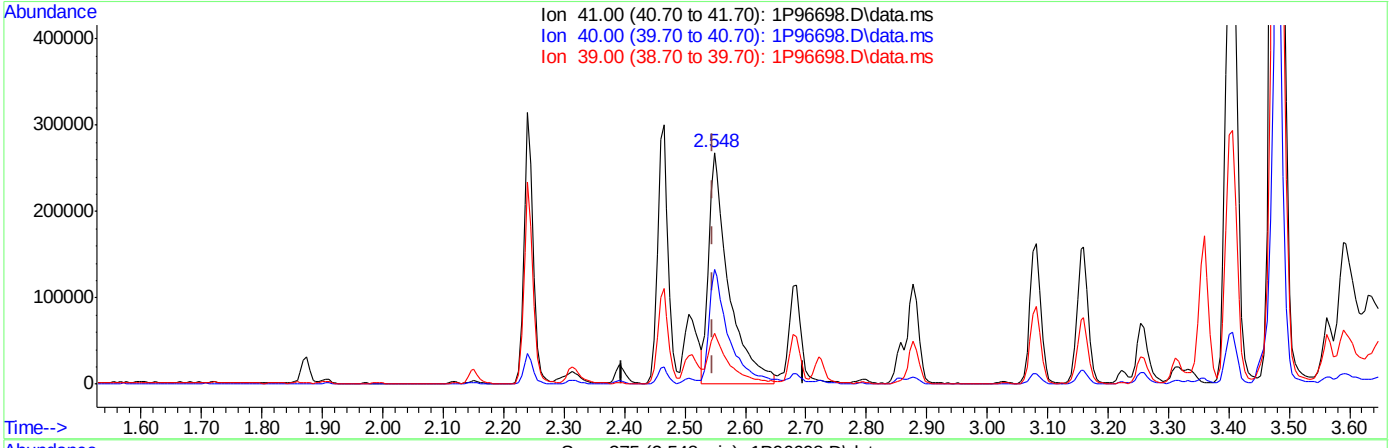
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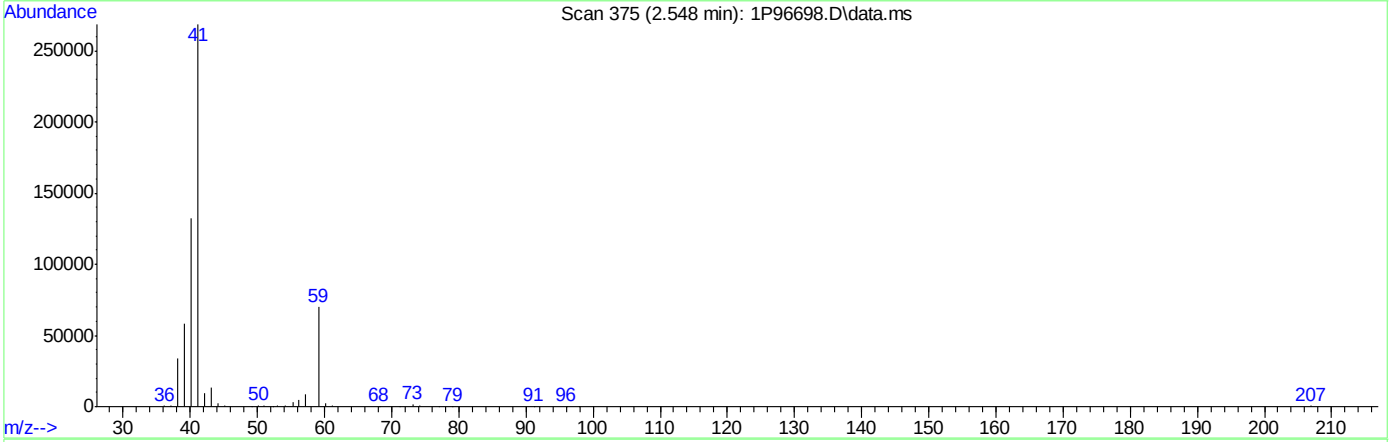
Ion	Exp%	Act%
41.00	100	100
40.00	51.10	49.85
39.00	21.10	21.61
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96698.D
Acq On : 29 Dec 2022 3:45 pm
Operator : joannel
Sample : ICV3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 31 08:41:53 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P96698.D\data.ms

(25) Acetonitrile

2.548min (+0.002) 326.20ug/L m

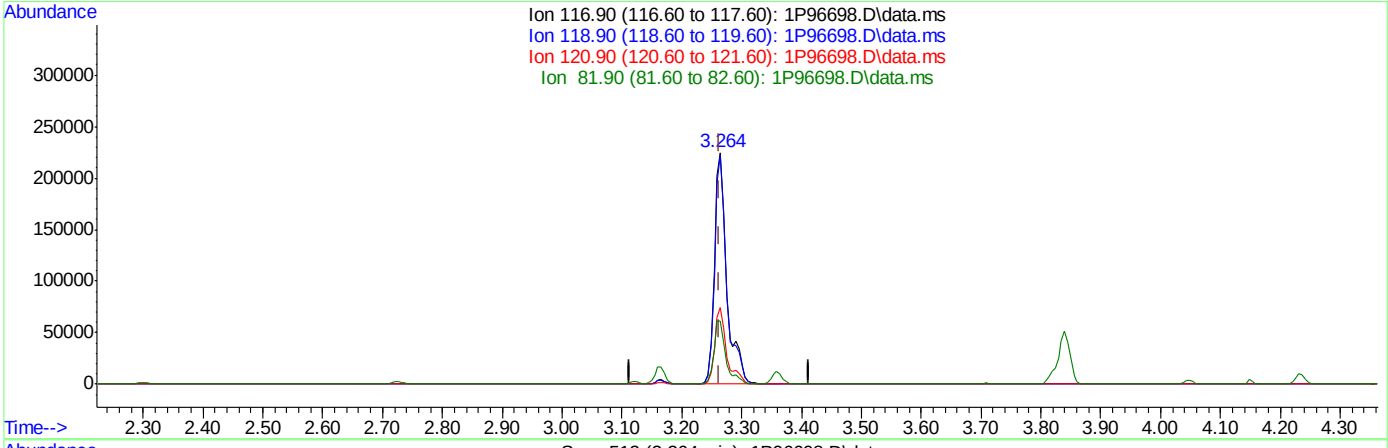
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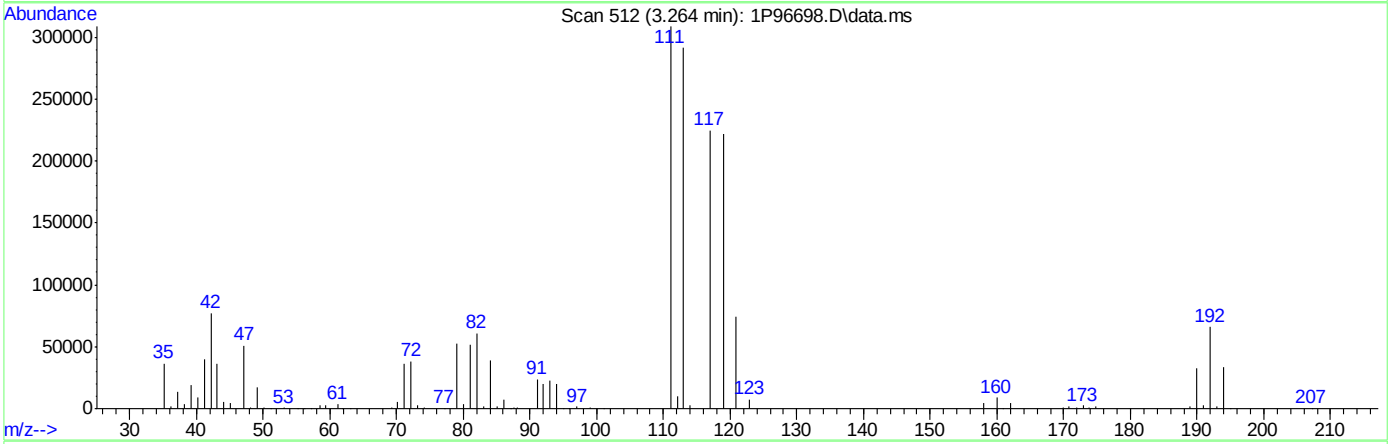
Ion	Exp%	Act%
41.00	100	100
40.00	51.10	49.39
39.00	21.10	21.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96698.D
Acq On : 29 Dec 2022 3:45 pm
Operator : joannel
Sample : ICV3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 31 08:41:53 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P96698.D\data.ms

(40) Carbon Tetrachloride ( )

3.264min (+0.002) 41.72ug/L

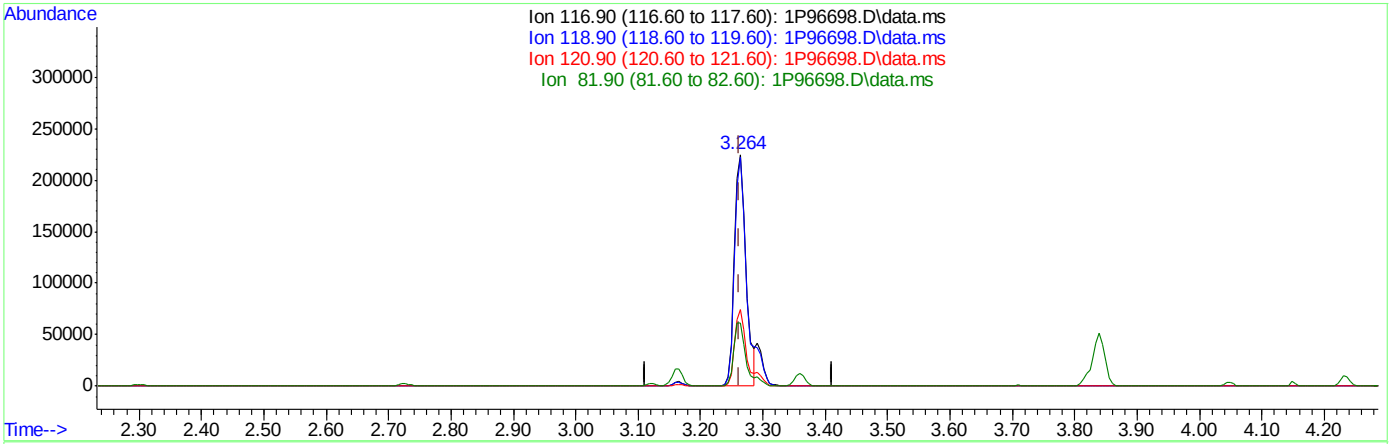
response 325034

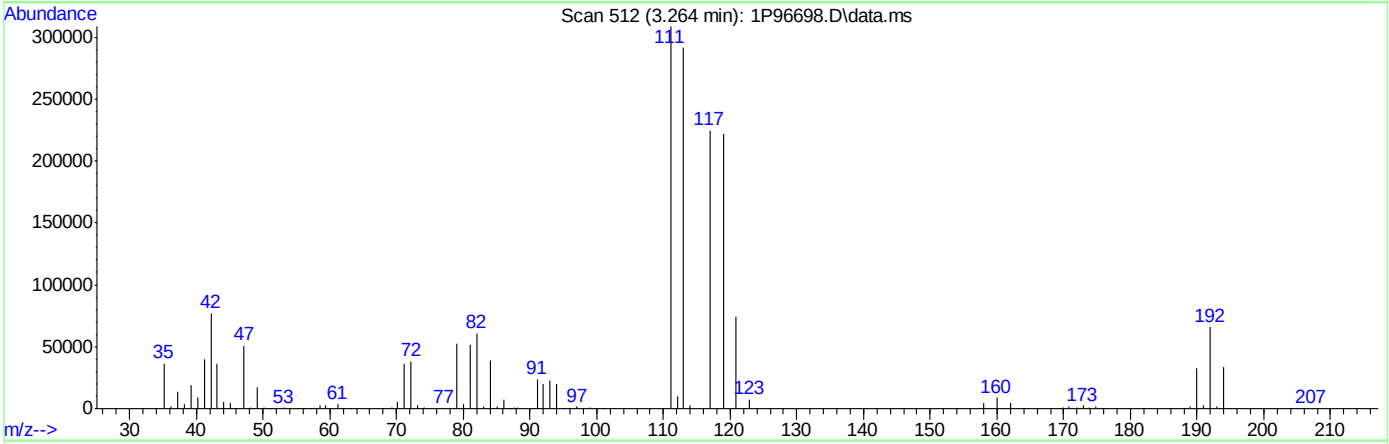
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	98.66
120.90	29.70	33.14
81.90	28.20	27.14

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96698.D
Acq On : 29 Dec 2022 3:45 pm
Operator : joannel
Sample : ICV3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 31 08:41:53 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P96698.D\data.ms

(40) Carbon Tetrachloride ( )

3.264min (+0.002) 37.34ug/L m

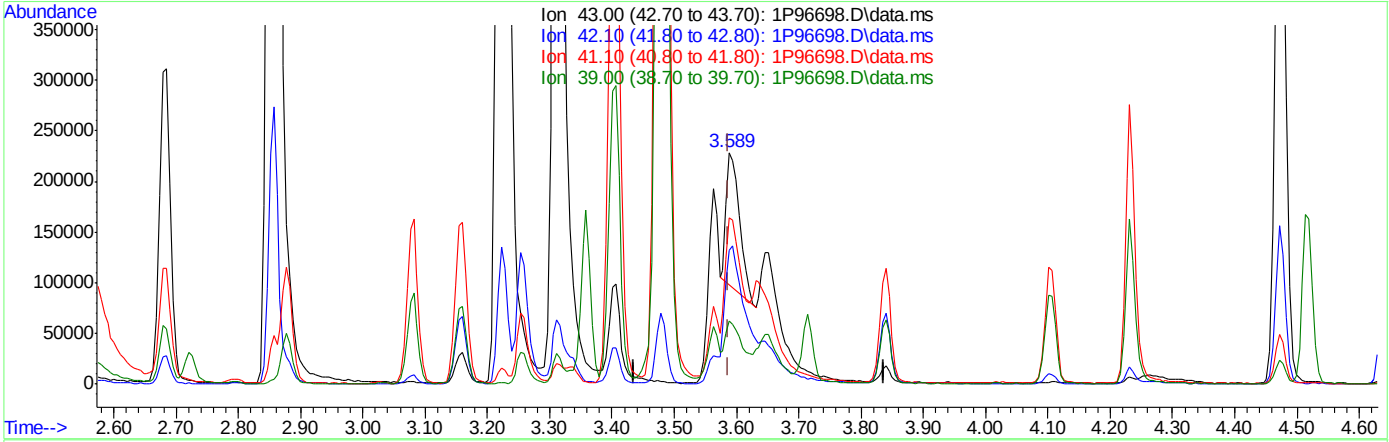
response 290926

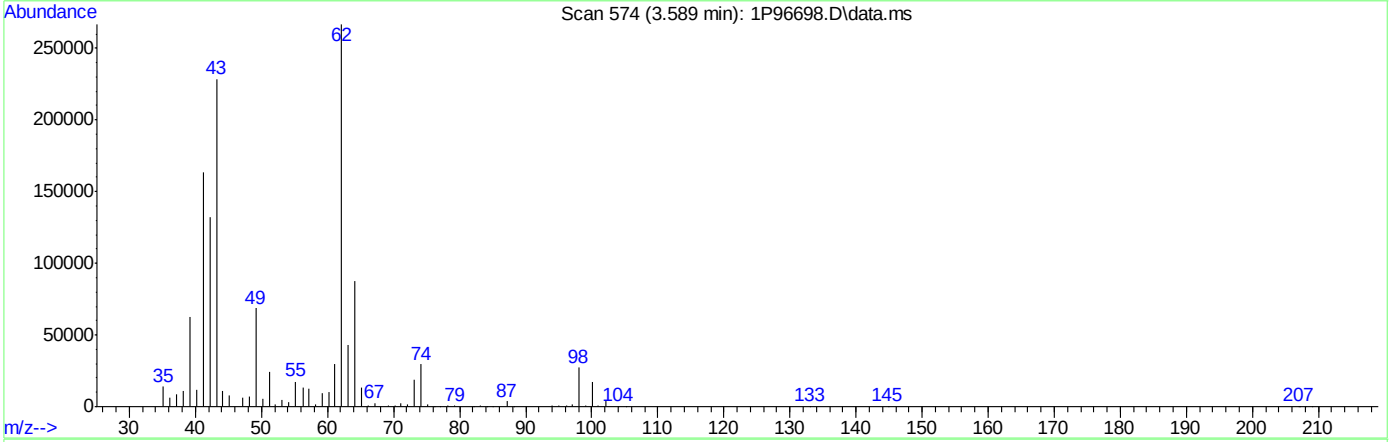
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	98.78
120.90	29.70	33.14
81.90	28.20	27.14

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96698.D
Acq On : 29 Dec 2022 3:45 pm
Operator : joannel
Sample : ICV3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 31 08:41:53 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P96698.D\data.ms

(50) Isobutyl alcohol

3.589min (+0.002) 181.12ug/L

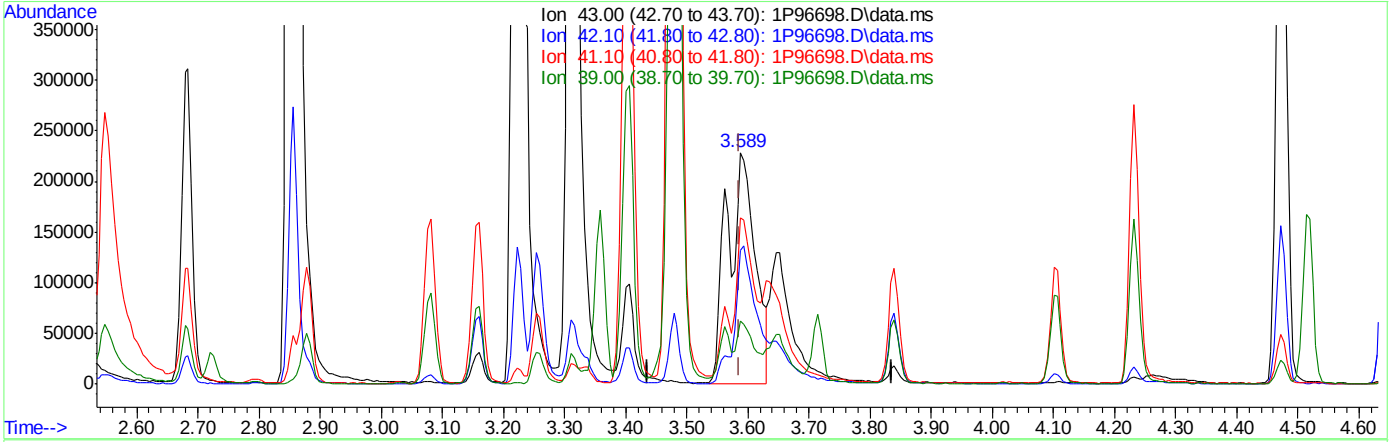
response 191241

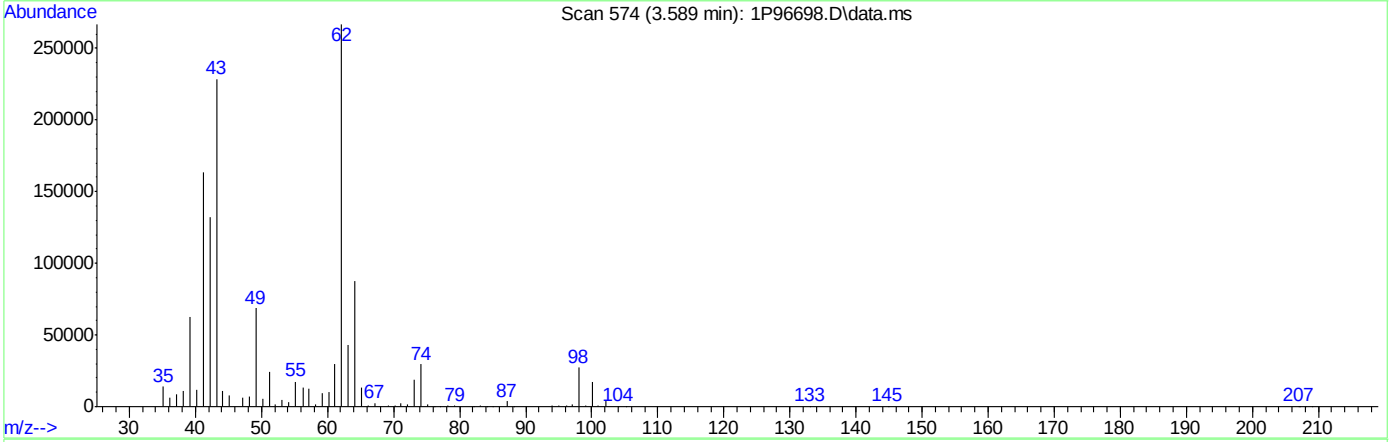
Ion	Exp%	Act%
43.00	100	100
42.10	59.80	68.43
41.10	70.50	74.04
39.00	27.50	20.13

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96698.D
Acq On : 29 Dec 2022 3:45 pm
Operator : joannel
Sample : ICV3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 31 08:41:53 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P96698.D\data.ms

(50) Isobutyl alcohol

3.589min (+0.002) 682.62ug/L m

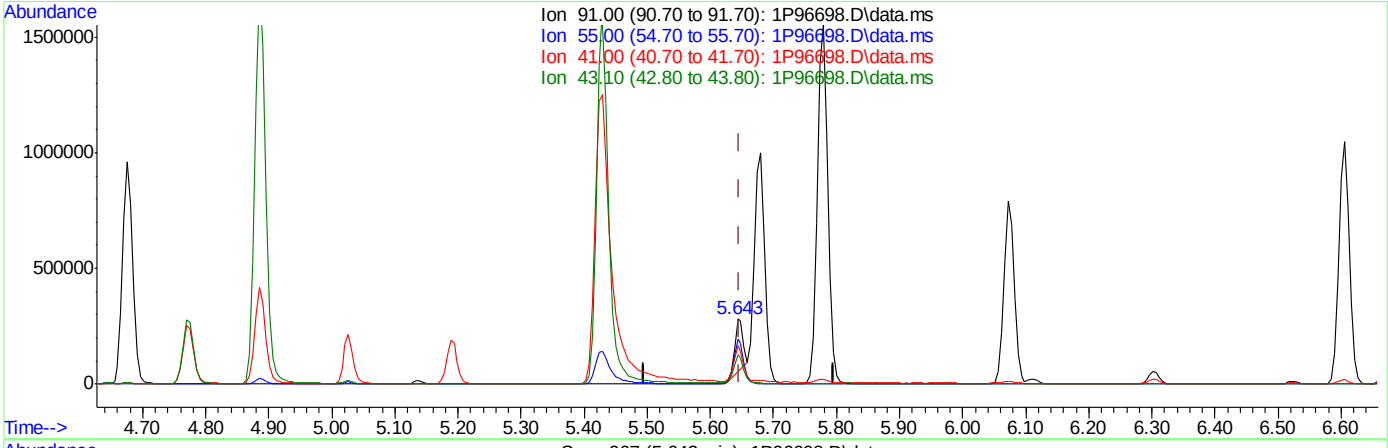
response 720777

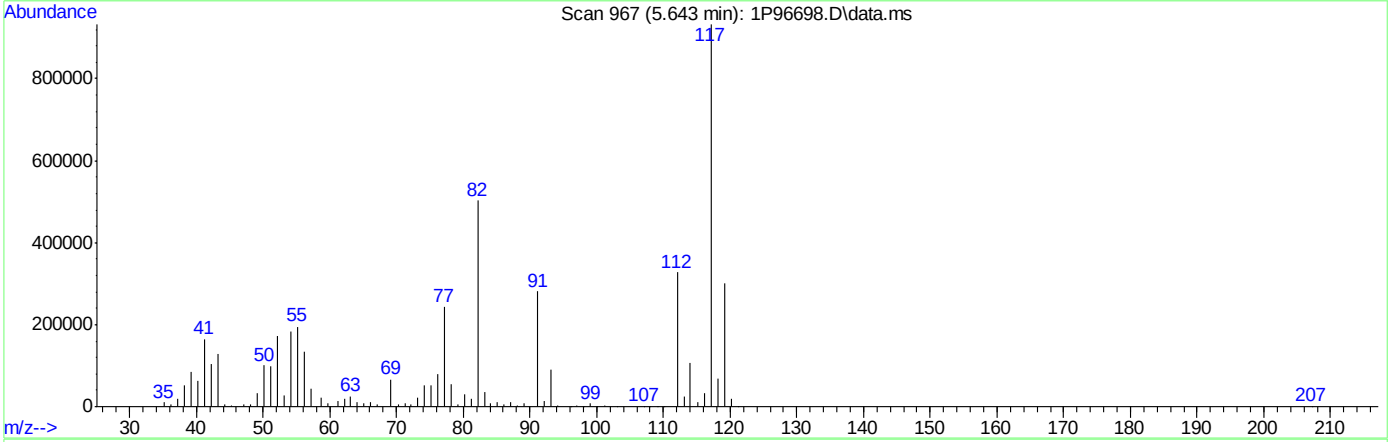
Ion	Exp%	Act%
43.00	100	100
42.10	59.80	57.69
41.10	70.50	71.60
39.00	27.50	27.47

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96698.D
Acq On : 29 Dec 2022 3:45 pm
Operator : joannel
Sample : ICV3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 31 08:41:53 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P96698.D\data.ms

(76) 1-Chlorohexane

5.643min (-0.003) 24.22ug/L

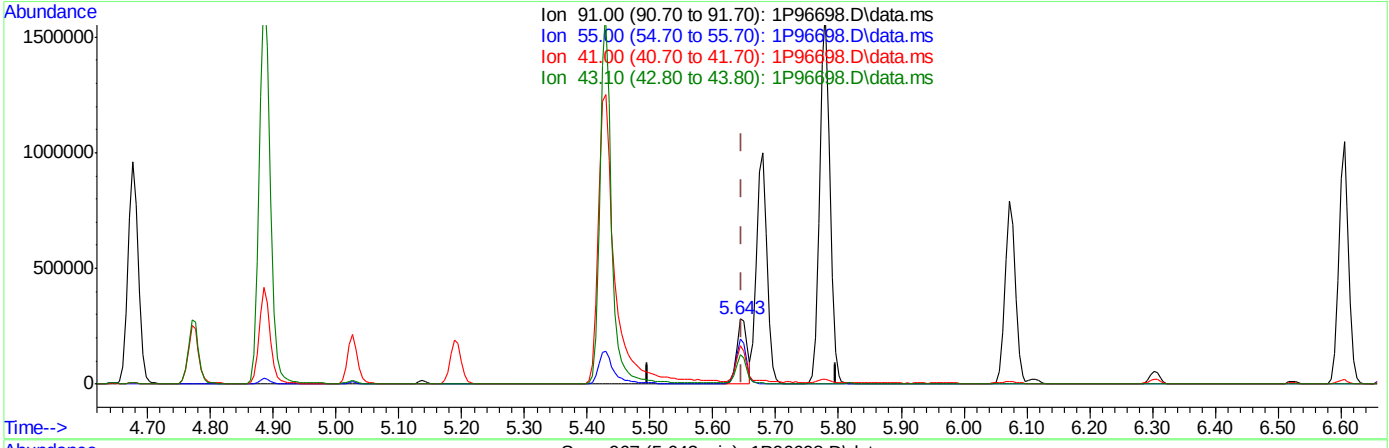
response 226651

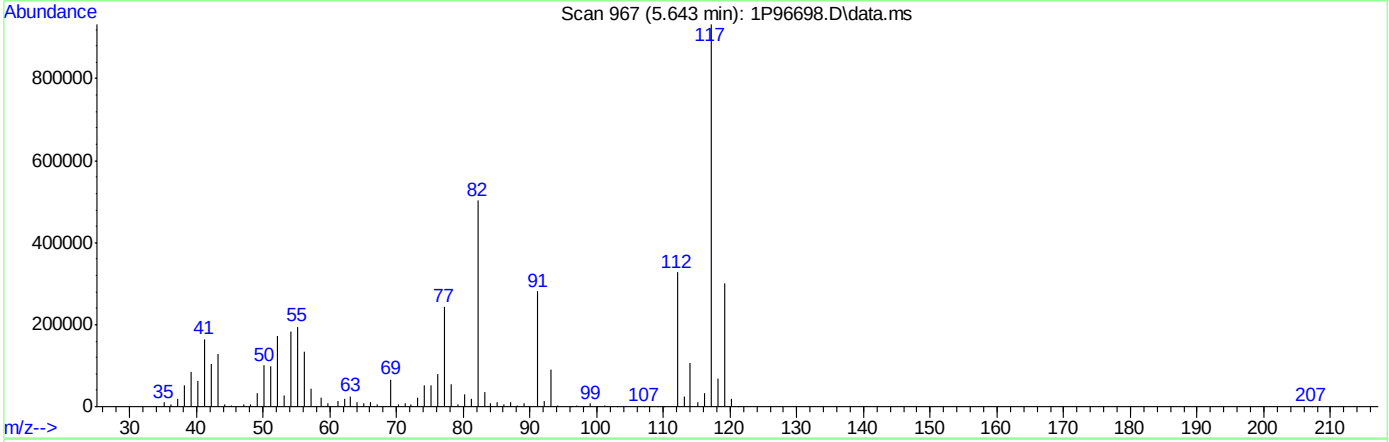
Ion	Exp%	Act%
91.00	100	100
55.00	69.00	66.90
41.00	56.30	52.53
43.10	43.30	43.72

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96698.D
Acq On : 29 Dec 2022 3:45 pm
Operator : joannel
Sample : ICV3655-5
Misc : MS52806,V1P3655,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 31 08:41:53 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P96698.D\data.ms

(76) 1-Chlorohexane

5.643min (-0.003) 34.73ug/L m

response 325009

Ion	Exp%	Act%
91.00	100	100
55.00	69.00	69.30
41.00	56.30	58.36
43.10	43.30	45.87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96700.D
Acq On : 29 Dec 2022 4:16 pm
Operator : joannel
Sample : ICV3655-4
Misc : MS52806,V1P3655,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 31 09:20:34 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

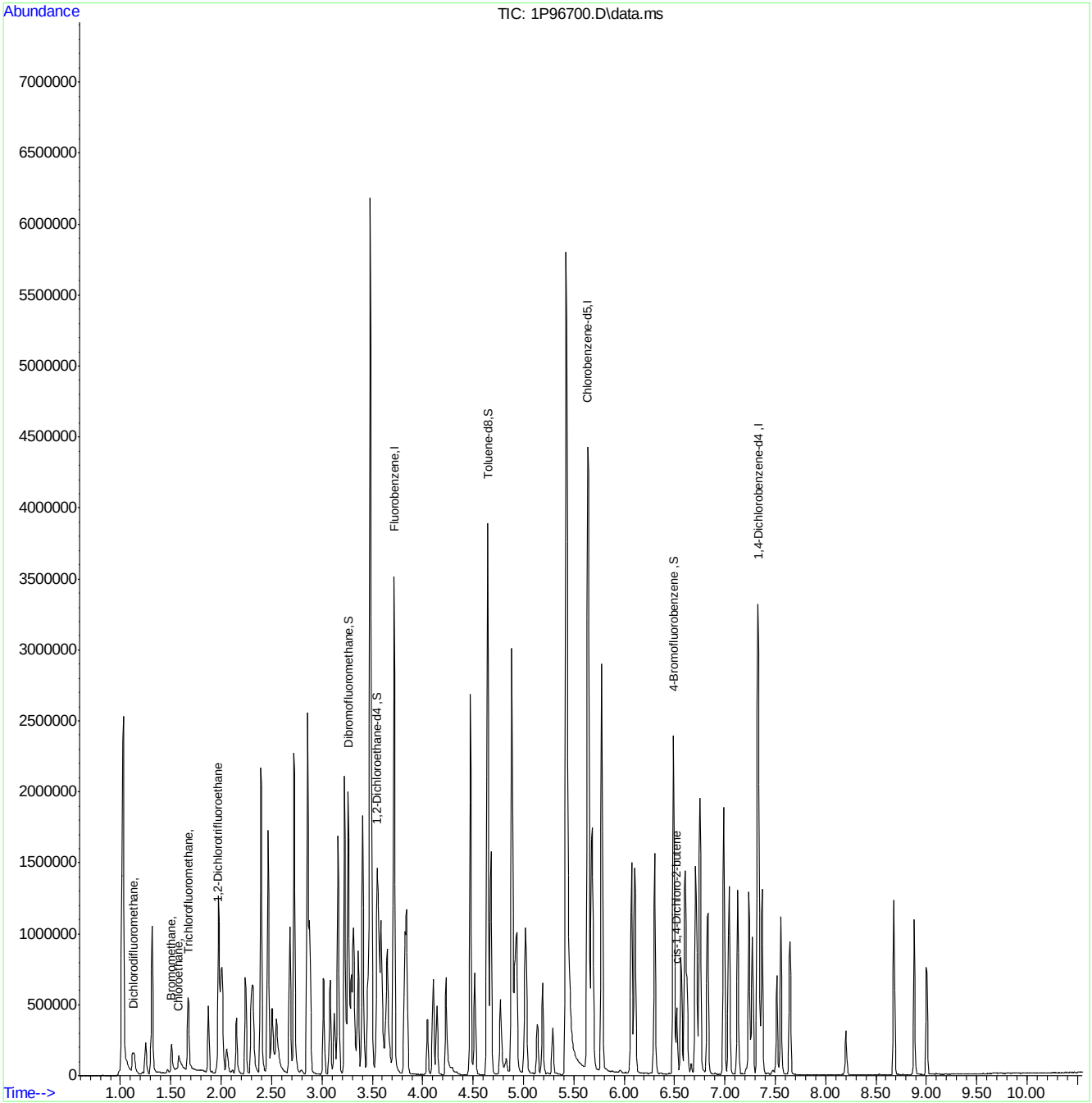
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.715	96	1878930	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.639	117	1248145	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.328	152	549218	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.261	113	420700	52.19	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.38%			
49) 1,2-Dichloroethane-d4	3.548	65	535362	49.45	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.90%			
63) Toluene-d8	4.646	98	1762080	49.78	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.56%			
86) 4-Bromofluorobenzene	6.491	174	460750	52.26	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.52%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.133	85	160591	26.09	ug/L	98
6) Bromomethane	1.504	94	88146	24.90	ug/L	96
7) Chloroethane	1.577	64	64852	23.33	ug/L	97
8) Trichlorofluoromethane	1.671	101	260087	27.93	ug/L	99
11) 1,2-Dichlorotrifluoroe...	1.969	67	176274	23.59	ug/L	95
87) cis-1,4-Dichloro-2-butene	6.523	53	71377	21.68	ug/L	92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2022-12-29\
Data File : 1P96700.D
Acq On : 29 Dec 2022 4:16 pm
Operator : joannel
Sample : ICV3655-4
Misc : MS52806,V1P3655,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 31 09:20:34 2022
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/19/23 15:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 15:00:38 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.715	96	1121691	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.639	117	880748	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.328	152	407244	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.260	113	239934	49.86	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.72%			
49) 1,2-Dichloroethane-d4	3.548	65	330086	51.07	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.14%			
63) Toluene-d8	4.646	98	1113631	44.58	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 89.16%			
86) 4-Bromofluorobenzene	6.491	174	295725	45.23	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 90.46%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.122	85	138695	37.74	ug/L	97
3) Chloromethane	1.247	50	160020	40.63	ug/L	98
4) 1,3-butadiene	1.315	39	14320	5.60	ug/L	93
5) Vinyl Chloride	1.300	62	184084	47.46	ug/L	99
6) Bromomethane	1.504	94	135478	64.10	ug/L	97
7) Chloroethane	1.577	64	88280	80.15	ug/L	95
8) Trichlorofluoromethane	1.671	101	304005	75.29	ug/L	99
9) Ethyl Ether	1.875	59	205094	53.65	ug/L	97
10) Ethanol	1.969	45	81981	982.10	ug/L	98
11) 1,2-Dichlorotrifluoroe...	1.974	67	212062	48.00	ug/L	95
12) 1,1-Dichloroethene	1.974	61	241630	44.12	ug/L	94
13) Freon 113	2.011	101	152782	45.52	ug/L	97
14) Carbon Disulfide	1.995	76	439789	44.82	ug/L	98
15) Iodomethane	2.053	142	135355	38.29	ug/L	96
16) Acrolein	2.152	56	360004	270.15	ug/L	99
17) Allyl chloride	2.241	41	257882	46.49	ug/L	96
18) Methylene Chloride	2.298	49	216703	45.31	ug/L	98
19) Acetone	2.314	43	577839	231.86	ug/L	98
20) Methyl acetate	2.392	43	1328092	245.55	ug/L	100
21) trans-1,2-Dichloroethene	2.398	61	261928	47.68	ug/L	98
22) Hexane	2.466	56	139989	45.05	ug/L	96
23) Methyl Tert Butyl Ether	2.466	73	628339	47.99	ug/L	98
24) Tert Butyl Alcohol	2.507	59	523149	431.12	ug/L	97
25) Acetonitrile	2.549	41	490196m	434.58	ug/L	
26) Di-isopropyl ether	2.680	45	612946	48.18	ug/L	98
27) Chloroprene	2.722	53	1179807	64.52	ug/L	89
28) 1,1-Dichloroethane	2.727	63	359777	50.84	ug/L	99
29) Acrylonitrile	2.722	52	657596	272.02	ug/L #	71
30) ETBE	2.879	59	609614	48.15	ug/L	99
31) Vinyl acetate	2.858	43	2319383	250.52	ug/L	100
32) cis-1,2-Dichloroethene	3.015	96	203140	47.26	ug/L	97
33) 2,2-Dichloropropane	3.083	77	279708	45.62	ug/L	99
34) Bromochloromethane	3.124	128	81375	45.21	ug/L	95
35) Cyclohexane	3.161	56	287189	46.21	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 15:00:38 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Chloroform	3.161	83	356810	48.80	ug/L	97
37) Ethyl acetate	3.224	43	1672987	245.91	ug/L	99
38) Tetrahydrofuran	3.255	42	128105	46.93	ug/L	99
40) Carbon Tetrachloride	3.265	117	204143m	44.03	ug/L	
41) 1,1,1-Trichloroethane	3.292	97	282069	45.82	ug/L	99
42) 2-Butanone	3.313	43	1028033	231.51	ug/L	99
43) 1,1-Dichloropropene	3.360	75	267121	46.32	ug/L	98
44) tert-Butyl formate	3.407	59	646731	229.29	ug/L	98
45) Propionitrile	3.459	54	574615	492.06	ug/L	96
46) Methacrylonitrile	3.480	41	2096928	500.30	ug/L	100
47) Benzene	3.490	78	896909	50.34	ug/L	82
48) TAME	3.563	73	594175	47.89	ug/L	98
50) Isobutyl alcohol	3.590	43	329354m	524.20	ug/L	
51) 1,2-Dichloroethane	3.584	62	270101	46.44	ug/L	97
52) Tert Amyl Alcohol	3.652	59	452119	468.23	ug/L	96
53) Trichloroethene	3.820	95	204422	46.17	ug/L	94
54) Methylcyclohexane	3.841	83	283340	46.78	ug/L	98
55) Dibromomethane	4.044	93	115655	45.83	ug/L	91
56) 1,2-Dichloropropane	4.102	63	194130	47.09	ug/L	96
57) Bromodichloromethane	4.139	83	232710	48.99	ug/L	99
58) Methyl methacrylate	4.233	41	225068	45.48	ug/L	99
59) 1,4-Dioxane	4.259	88	91345	937.45	ug/L	99
60) 2-Chloroethyl vinyl ether	4.473	63	785372	226.46	ug/L	99
61) cis-1,3-Dichloropropene	4.515	75	298167	47.14	ug/L	97
64) Toluene	4.677	91	879376	40.17	ug/L	98
65) 2-Nitropropane	4.771	41	168510	147.08	ug/L	97
66) 4-Methyl-2-pentanone	4.886	43	1791172	206.03	ug/L	99
67) trans-1,3-Dichloropropene	4.912	75	269733	41.12	ug/L	86
68) Tetrachloroethene	4.933	166	188495	38.22	ug/L	99
69) Ethyl methacrylate	5.027	69	301831	39.52	ug/L	96
70) 1,1,2-Trichloroethane	5.017	83	149635	40.64	ug/L	97
71) Dibromochloromethane	5.137	129	150882	40.19	ug/L	96
72) 1,3-Dichloropropane	5.189	76	328850	40.56	ug/L	99
73) 1,2-Dibromoethane	5.289	107	174882	38.61	ug/L	100
74) 3,3-dimethyl-1-butanol	5.425	57	2263428	1837.30	ug/L	98
75) 2-hexanone	5.425	43	1843405	211.41	ug/L	88
76) 1-Chlorohexane	5.676	91	1211895m	183.36	ug/L	
77) Ethylbenzene	5.676	91	941453	41.81	ug/L	99
78) Chlorobenzene	5.649	112	517747	41.56	ug/L	98
79) 1,1,1,2-Tetrachloroethane	5.691	131	160181	42.02	ug/L	97
80) m,p-Xylene	5.775	91	1482515	84.58	ug/L	99
81) o-Xylene	6.073	91	706072	40.66	ug/L	99
82) Styrene	6.104	104	560459	41.73	ug/L	99
83) Bromoform	6.115	173	86515	40.81	ug/L	96
84) Isopropylbenzene	6.303	105	841018	41.04	ug/L	99
87) cis-1,4-Dichloro-2-butene	6.523	53	86792	35.26	ug/L	95
88) n-Propylbenzene	6.606	91	983031	40.61	ug/L	97
89) Bromobenzene	6.564	156	183066	36.89	ug/L	89
90) 1,1,2,2-Tetrachloroethane	6.622	83	274357	41.42	ug/L	100
91) 1,3,5-Trimethylbenzene	6.753	105	680898	40.20	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 15:00:38 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

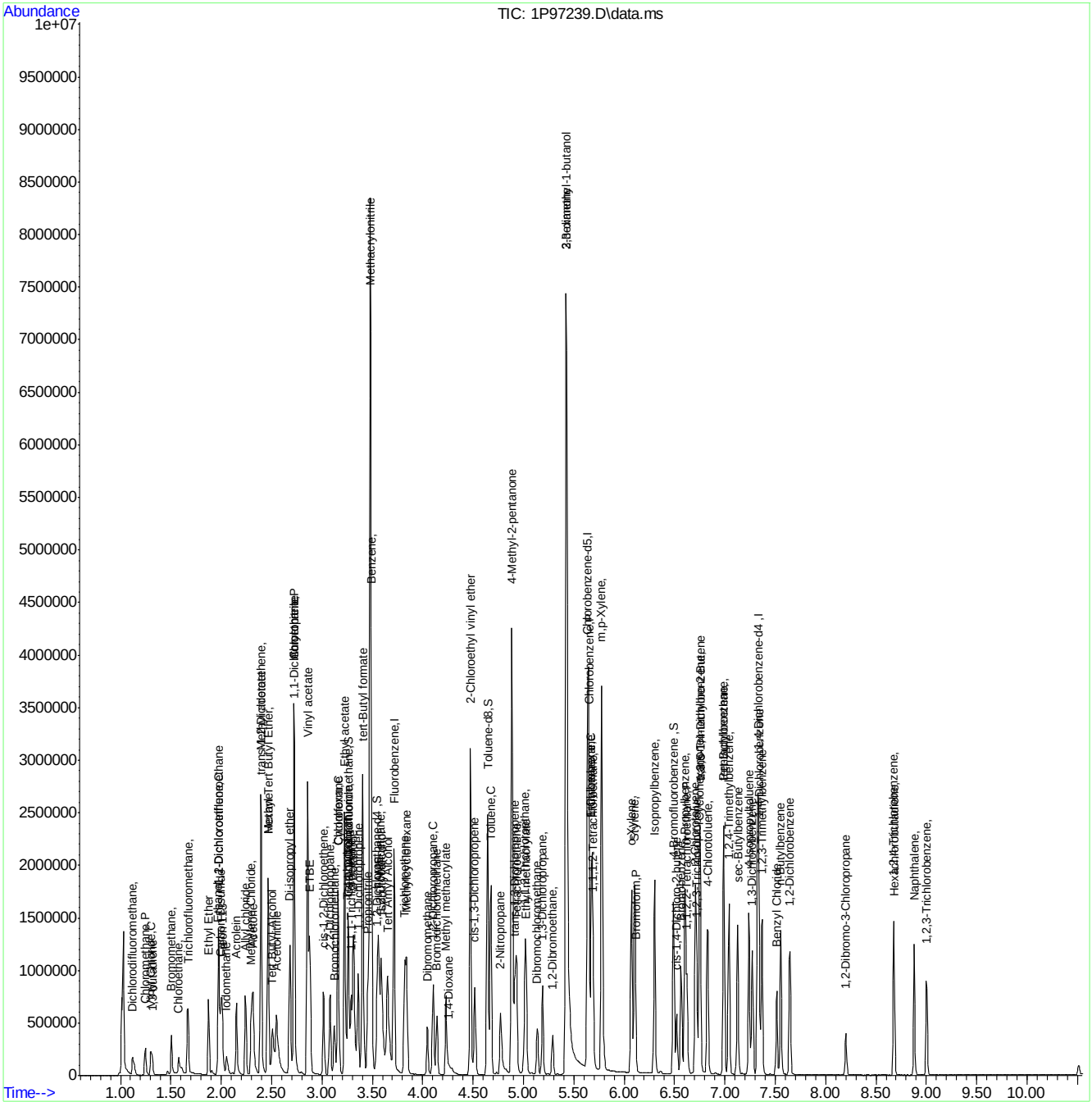
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.705	91	569799	39.20	ug/L		100
93)	trans-1,4-Dichloro-2-B...	6.753	53	92720	37.56	ug/L		95
94)	1,2,3-Trichloropropane	6.721	110	99058	40.23	ug/L		95
95)	Cyclohexanone	6.747	55	77017	187.16	ug/L		95
96)	4-Chlorotoluene	6.831	91	595167	39.44	ug/L		98
97)	tert-Butylbenzene	6.988	91	369919	39.58	ug/L		98
99)	1,2,4-Trimethylbenzene	7.040	105	635534	39.55	ug/L		99
100)	Pentachloroethane	6.988	167	88819	38.83	ug/L		95
101)	sec-Butylbenzene	7.129	105	752740	40.37	ug/L		99
102)	4-Isopropyltoluene	7.239	119	633411	40.11	ug/L		98
103)	1,3-Dichlorobenzene	7.270	146	345094	38.46	ug/L		98
104)	1,2,3-Trimethylbenzene	7.369	105	631417	40.18	ug/L		99
105)	1,4-Dichlorobenzene	7.338	146	358872	38.73	ug/L		98
106)	n-Butylbenzene	7.552	92	310713	41.70	ug/L		96
107)	Benzyl Chloride	7.516	126	76154	33.87	ug/L	#	88
108)	1,2-Dichlorobenzene	7.647	146	325356	38.79	ug/L		96
109)	1,2-Dibromo-3-Chloropr...	8.201	75	64932	41.58	ug/L		95
110)	Hexachlorobutadiene	8.682	225	60964	36.46	ug/L		90
111)	1,2,4-Trichlorobenzene	8.676	180	162055	35.86	ug/L		97
112)	Naphthalene	8.880	128	589024	36.27	ug/L		99
113)	1,2,3-Trichlorobenzene	9.006	180	155947	36.16	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 15:00:38 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration



Manual Integration Approval Summary

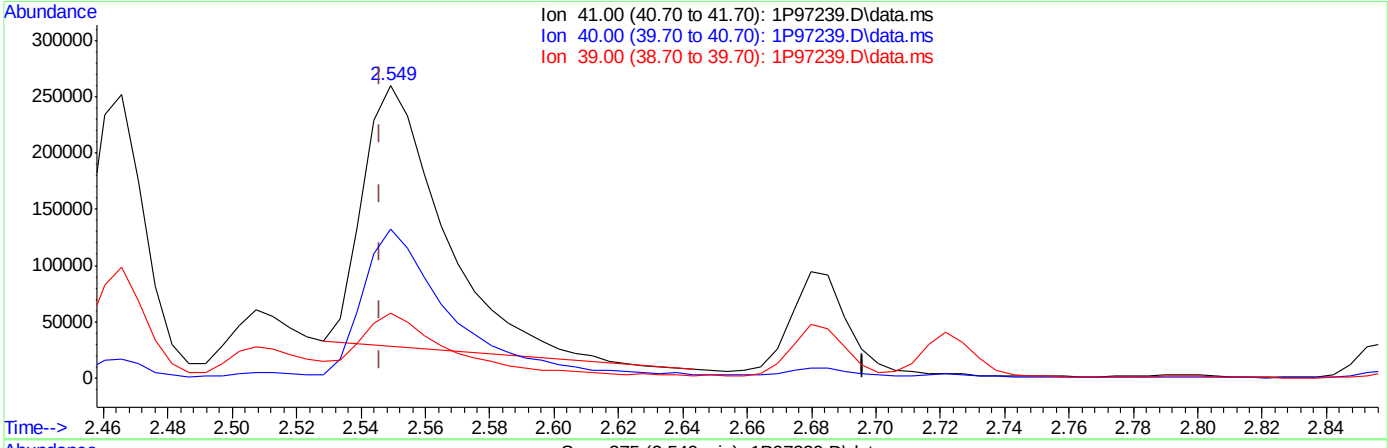
Sample Number: V1P3666-CC3655 **Method:** SW846 8260D
Lab FileID: 1P97239.D **Analyst approved:** 01/19/23 15:23 Neil Christiana
Injection Time: 01/19/23 10:46 **Supervisor approved:** 01/19/23 15:31 Karen Watson

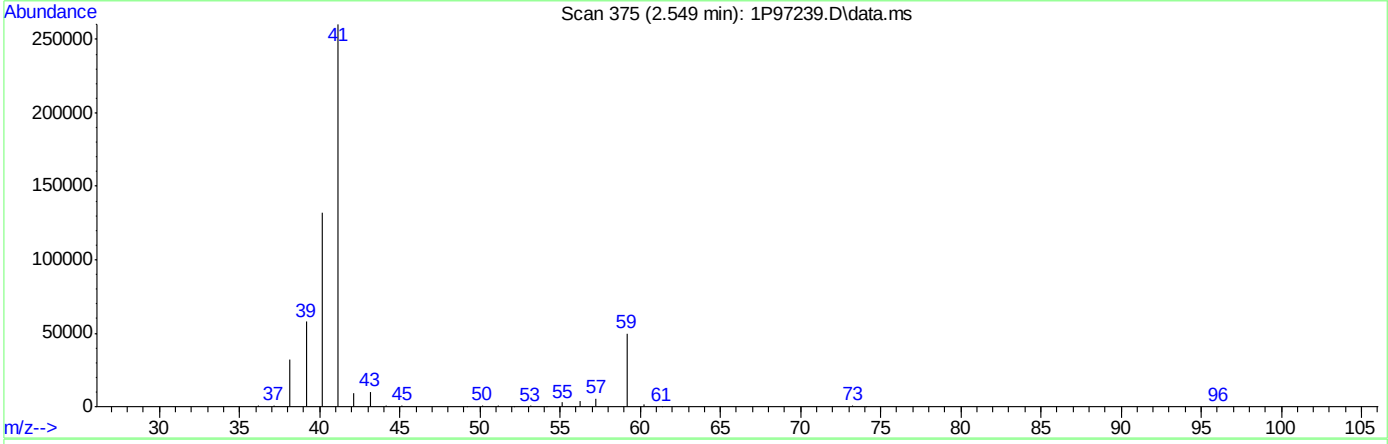
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.55	Overlapping peak
Carbon Tetrachloride	56-23-5		3.27	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Overlapping peak
1-Chlorohexane	544-10-5		5.68	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5/BFB
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 14:25:58 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97239.D\data.ms

(25) Acetonitrile

2.549min (+0.003) 354.86ug/L

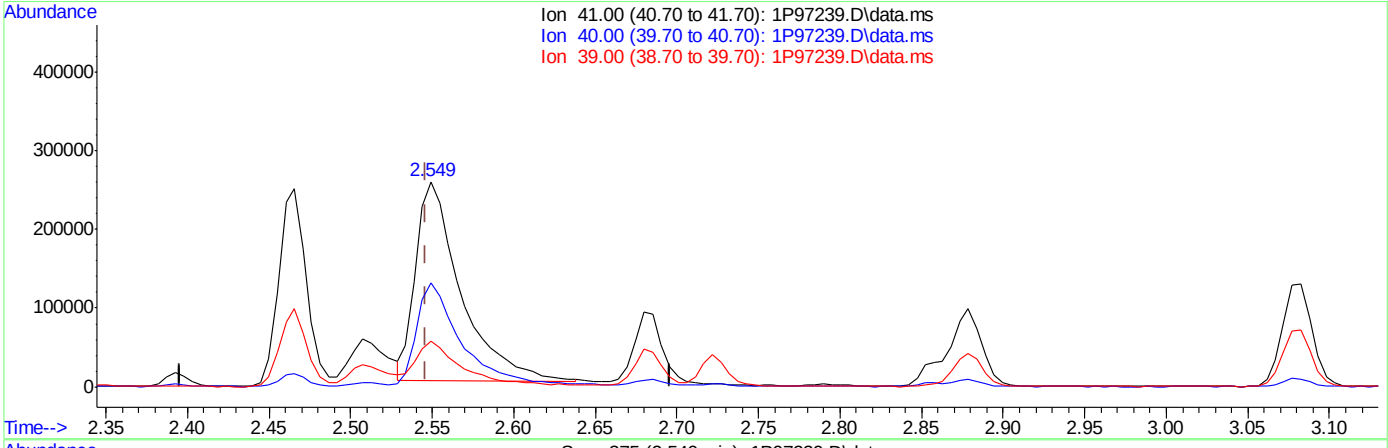
response 400274

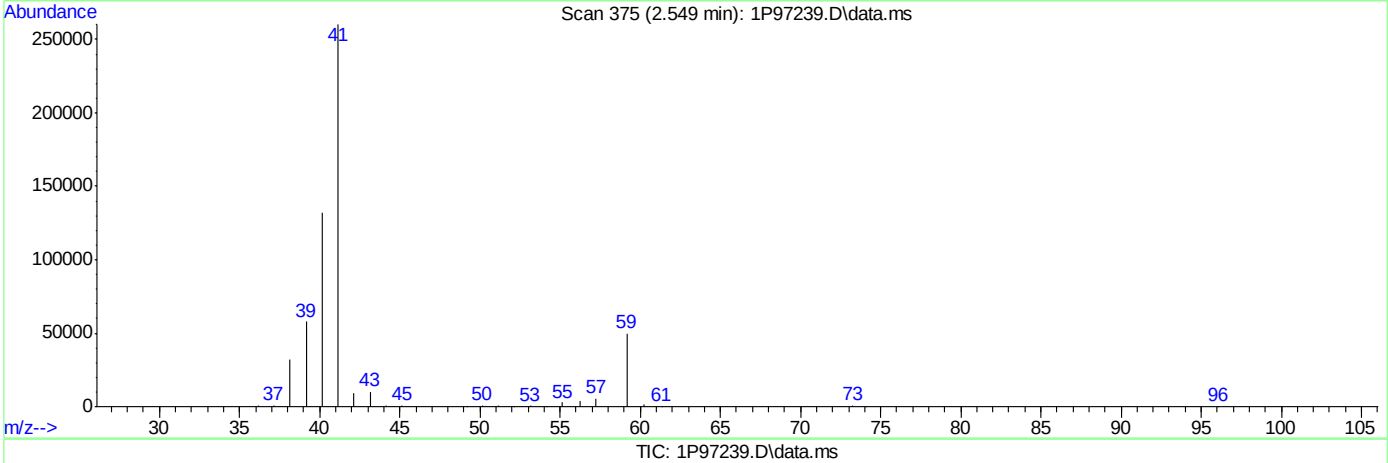
Ion	Exp%	Act%
41.00	100	100
40.00	51.10	51.01
39.00	21.10	21.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5/BFB
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 14:25:58 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97239.D\data.ms

(25) Acetonitrile

2.549min (+0.003) 434.58ug/L m

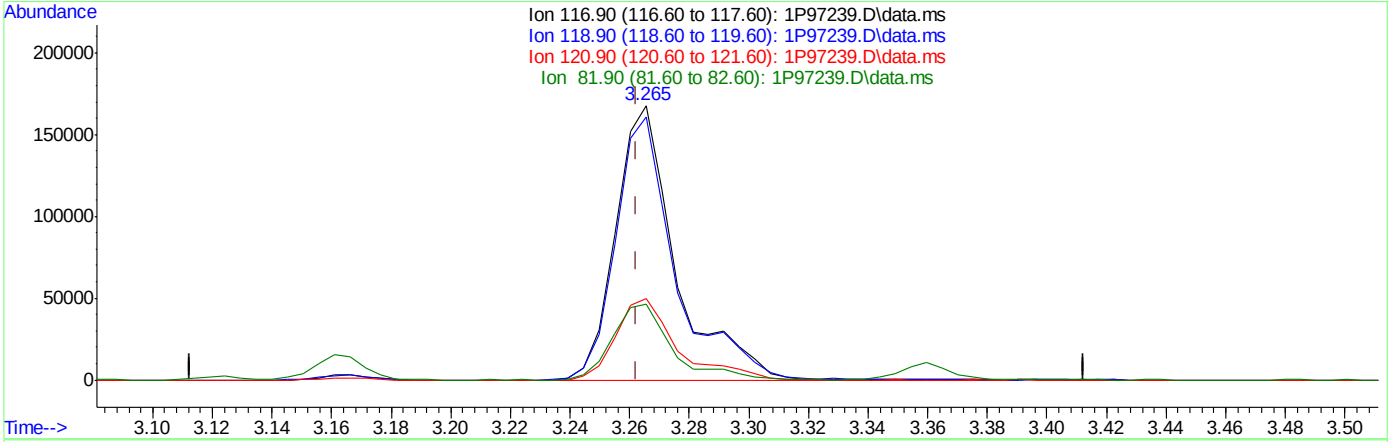
response 490196

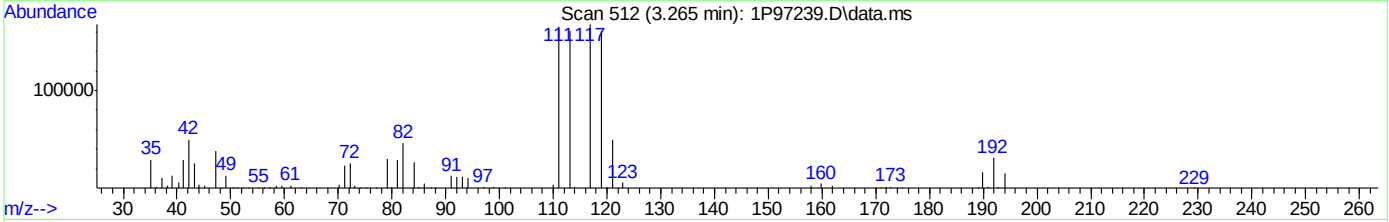
Ion	Exp%	Act%
41.00	100	100
40.00	51.10	50.76
39.00	21.10	22.21
0.00	0.00	0.00

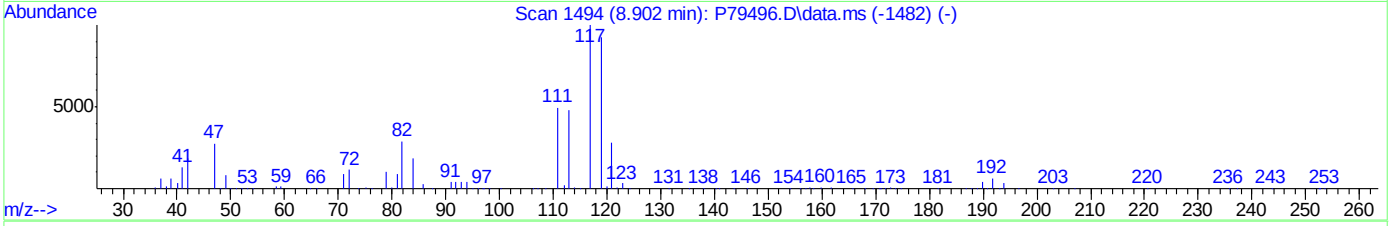
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5/BFB
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 14:25:58 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97239.D\data.ms

(40) Carbon Tetrachloride ( )

3.265min (+0.003) 50.90ug/L

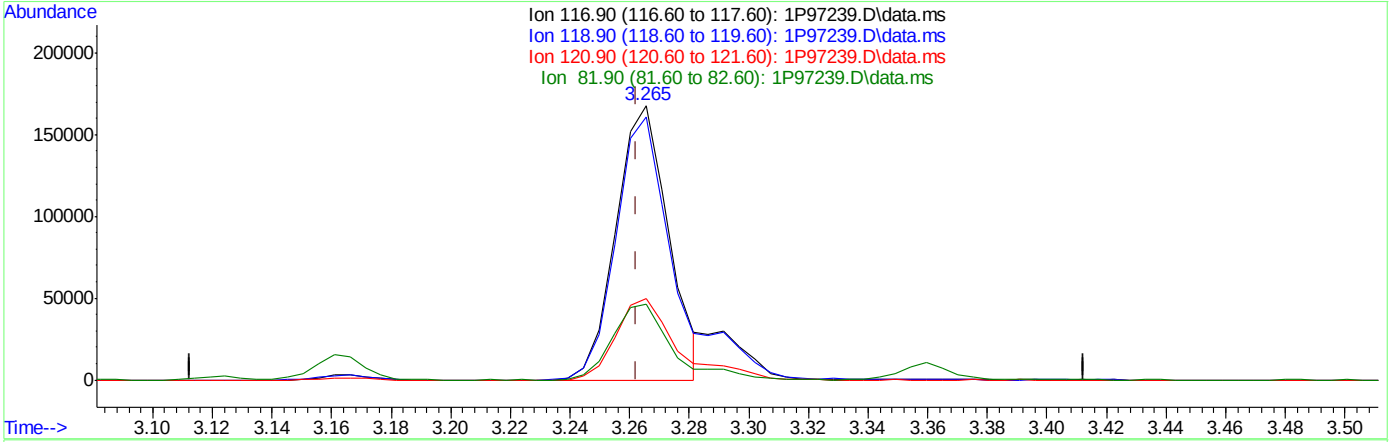
response 235982

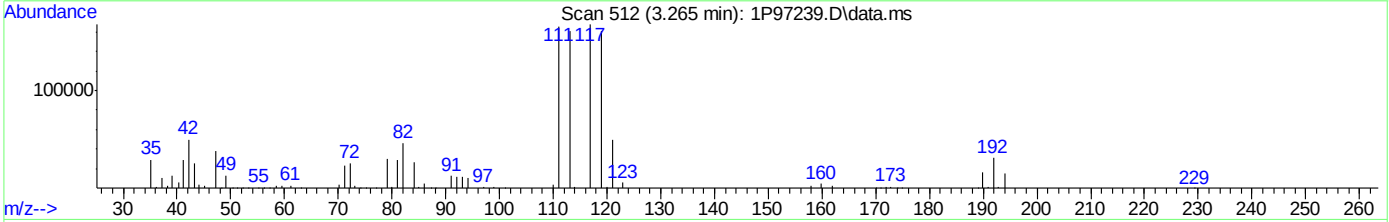
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	95.96
120.90	29.70	29.79
81.90	28.20	27.50

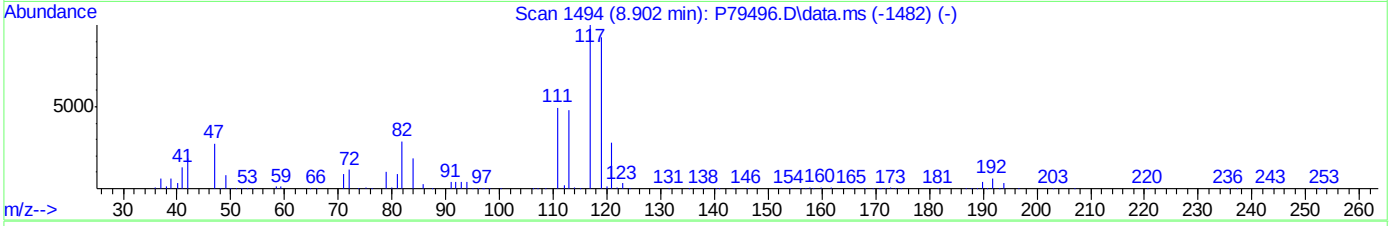
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5/BFB
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 14:25:58 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97239.D\data.ms

(40) Carbon Tetrachloride ( )

3.265min (+0.003) 44.03ug/L m

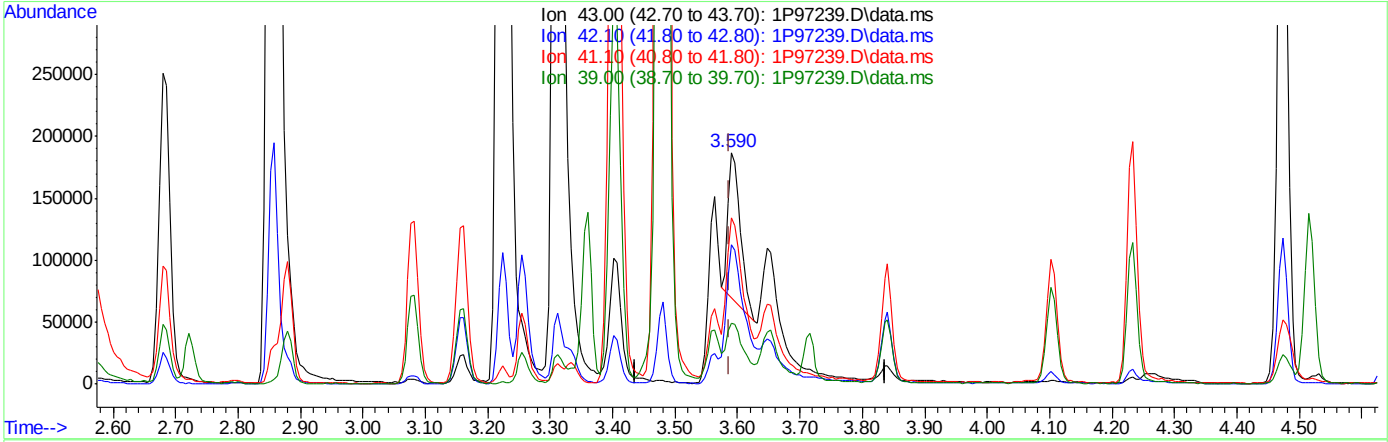
response 204143

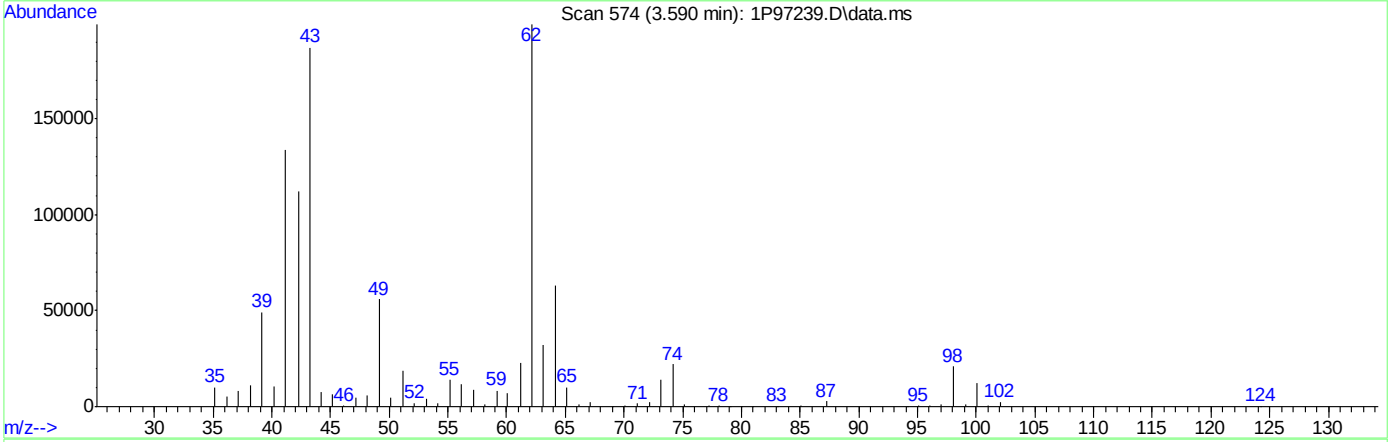
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	95.96
120.90	29.70	29.79
81.90	28.20	27.50

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5/BFB
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 14:27:42 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97239.D\data.ms

(50) Isobutyl alcohol

3.590min (+0.003) 256.23ug/L

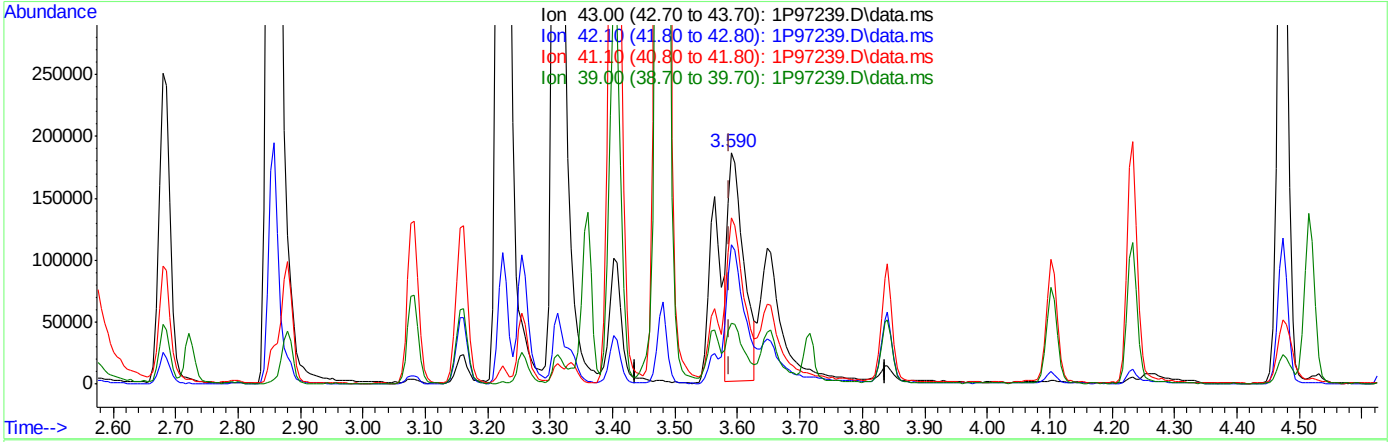
response 160986

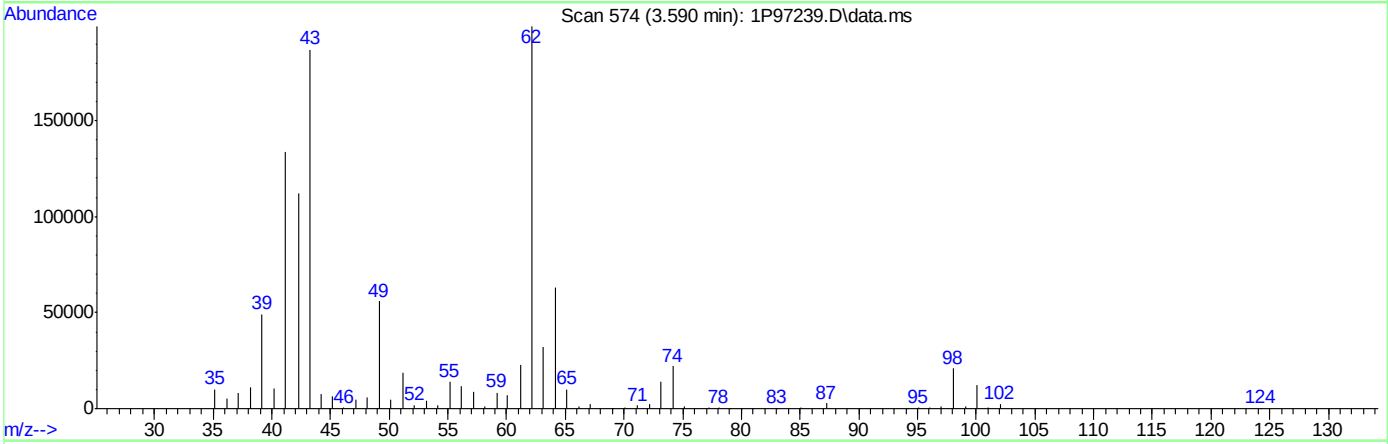
Ion	Exp%	Act%
43.00	100	100
42.10	59.80	66.36
41.10	70.50	71.27
39.00	27.50	24.79

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5/BFB
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 14:27:42 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97239.D\data.ms

(50) Isobutyl alcohol

3.590min (+0.003) 524.20ug/L m

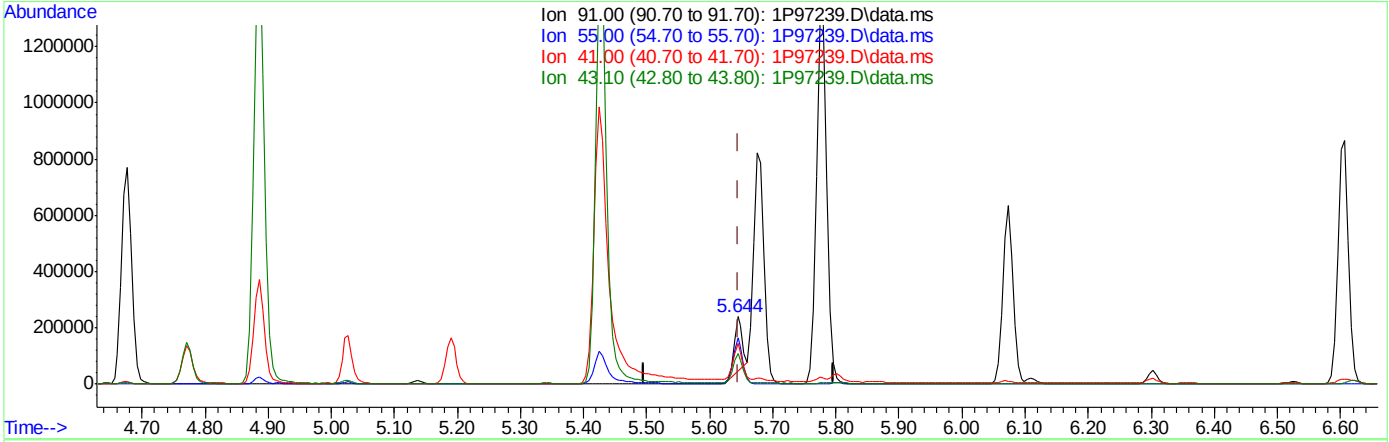
response 329354

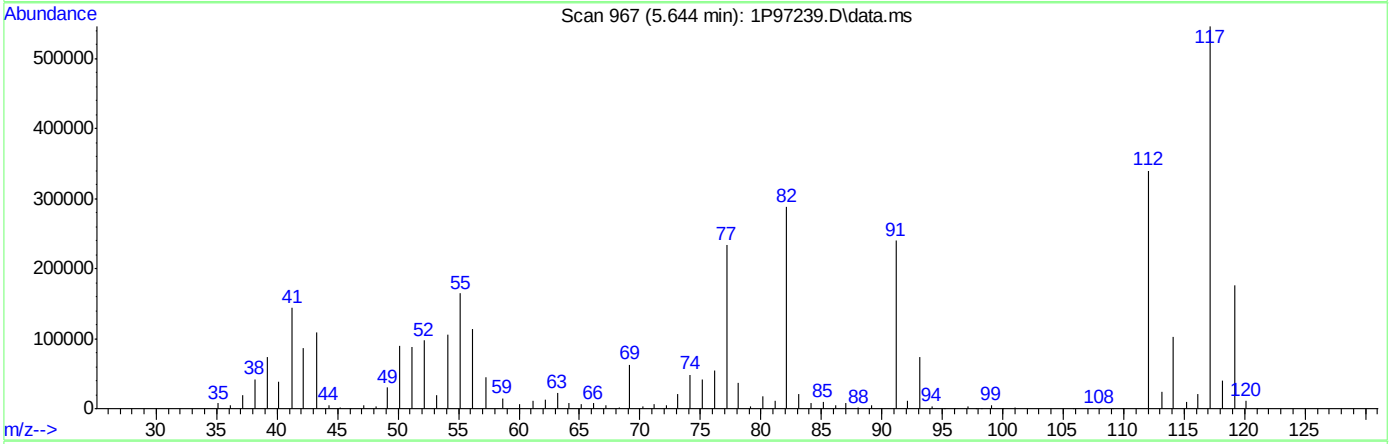
Ion	Exp%	Act%
43.00	100	100
42.10	59.80	60.04
41.10	70.50	71.56
39.00	27.50	26.38

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5/BFB
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 14:27:42 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97239.D\data.ms

(76) 1-Chlorohexane

5.644min (-0.002) 27.96ug/L

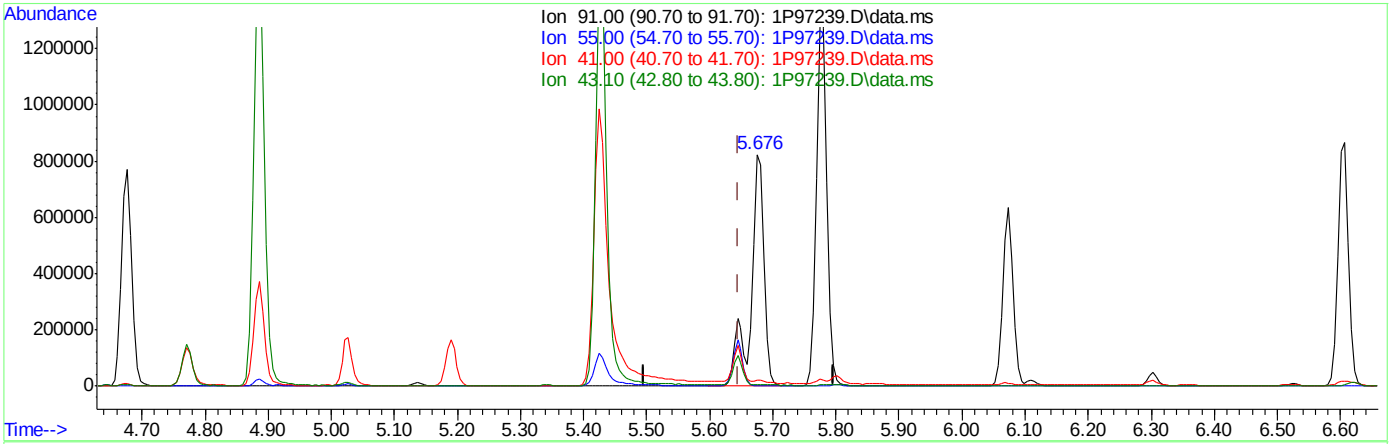
response 184811

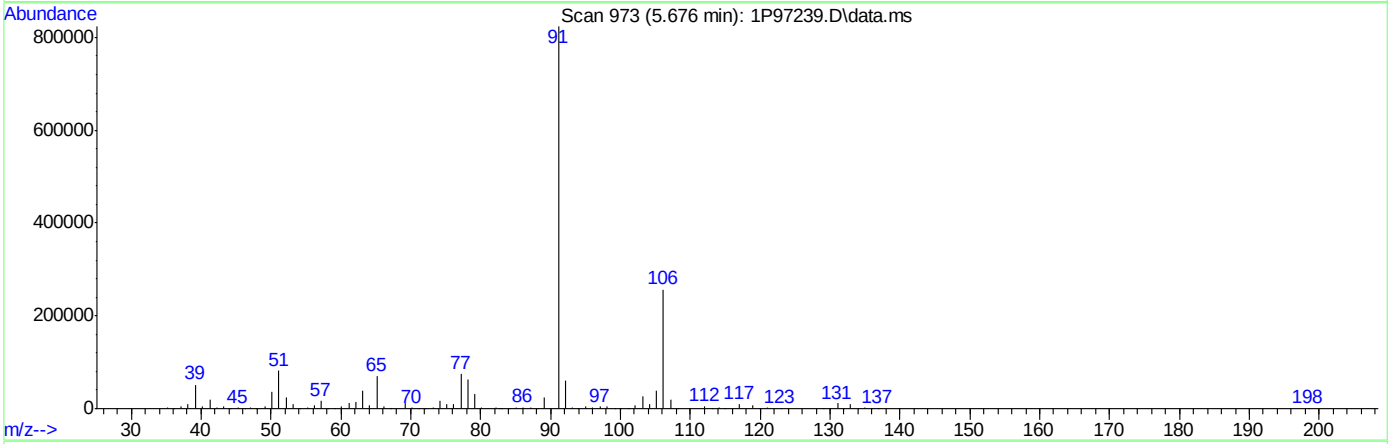
Ion	Exp%	Act%
91.00	100	100
55.00	69.00	65.06
41.00	56.30	52.41
43.10	43.30	42.84

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2023-1-19\
Data File : 1P97239.D
Acq On : 19 Jan 2023 10:46 am
Operator : joannel
Sample : CC3655-5/BFB
Misc : MS53143,V1P3666,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 14:27:42 2023
Quant Method : C:\msdchem\1\METHODS\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration





TIC: 1P97239.D\data.ms

(76) 1-Chlorohexane

5.676min (+0.029) 183.36ug/L m

response 1211895

Ion	Exp%	Act%
91.00	100	100
55.00	69.00	0.40#
41.00	56.30	2.43#
43.10	43.30	0.63#

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Fereira 01/23/23 02:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97285.D
Acq On : 19 Jan 2023 11:13 pm
Operator : joannel
Sample : ECC3655-5
Misc : MS53194,V1P3666,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jan 20 00:45:55 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.710	96	1166249	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.634	117	899574	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.328	152	427176	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.256	113	256256	51.22	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	102.44%		
49) 1,2-Dichloroethane-d4	3.543	65	340963	50.74	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery =	101.48%		
63) Toluene-d8	4.641	98	1149419	45.05	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery =	90.10%		
86) 4-Bromofluorobenzene	6.487	174	312869	45.62	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	91.24%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.112	85	170656	44.67	ug/L	100
3) Chloromethane	1.238	50	177101	43.25	ug/L	100
4) 1,3-butadiene	1.311	39	10315	3.87	ug/L	90
5) Vinyl Chloride	1.295	62	194116	48.13	ug/L	97
6) Bromomethane	1.499	94	142435	64.81	ug/L	99
7) Chloroethane	1.572	64	97674	Below Cal		98
8) Trichlorofluoromethane	1.661	101	325314	81.55	ug/L	99
9) Ethyl Ether	1.870	59	196219	49.37	ug/L	97
10) Ethanol	1.964	45	104101	1302.03	ug/L	95
11) 1,2-Dichlorotrifluoroe...	1.964	67	218798	47.63	ug/L	94
12) 1,1-Dichloroethene	1.970	61	250761	44.04	ug/L	95
13) Freon 113	2.001	101	156765	44.92	ug/L	95
14) Carbon Disulfide	1.990	76	464486	45.53	ug/L	99
15) Iodomethane	2.048	142	175382	47.72	ug/L	97
16) Acrolein	2.147	56	364179	262.59	ug/L	98
17) Allyl chloride	2.236	41	275671	47.79	ug/L	97
18) Methylene Chloride	2.294	49	236000	47.46	ug/L	97
19) Acetone	2.309	43	592961	228.83	ug/L	99
20) Methyl acetate	2.388	43	1454135	258.59	ug/L	99
21) trans-1,2-Dichloroethene	2.393	61	272129	47.64	ug/L	98
22) Hexane	2.456	56	133179	41.22	ug/L	98
23) Methyl Tert Butyl Ether	2.461	73	685094	50.33	ug/L	89
24) Tert Butyl Alcohol	2.513	59	603780	478.55	ug/L	98
25) Acetonitrile	2.545	41	438345	373.76	ug/L	98
26) Di-isopropyl ether	2.675	45	657071	49.67	ug/L	98
27) Chloroprene	2.717	53	1252286	65.87	ug/L	89
28) 1,1-Dichloroethane	2.717	63	376470	51.17	ug/L	98
29) Acrylonitrile	2.717	52	700078	278.53	ug/L #	73
30) ETBE	2.874	59	659891	50.13	ug/L	99
31) Vinyl acetate	2.853	43	2429929	252.44	ug/L	100
32) cis-1,2-Dichloroethene	3.010	96	214700	48.04	ug/L	96
33) 2,2-Dichloropropane	3.078	77	254699	39.96	ug/L	99
34) Bromochloromethane	3.120	128	89126	47.63	ug/L	92
35) Cyclohexane	3.156	56	306333	47.41	ug/L	99
36) Chloroform	3.156	83	376021	49.46	ug/L	99
37) Ethyl acetate	3.219	43	1791744	253.31	ug/L	100
38) Tetrahydrofuran	3.250	42	136598	48.19	ug/L	97
40) Carbon Tetrachloride	3.261	117	233285m	48.40	ug/L	
41) 1,1,1-Trichloroethane	3.287	97	299417	46.78	ug/L	98
42) 2-Butanone	3.308	43	1037708	224.76	ug/L	99
43) 1,1-Dichloropropene	3.355	75	277633	46.30	ug/L	97
44) tert-Butyl formate	3.402	59	716624	242.74	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97285.D
Acq On : 19 Jan 2023 11:13 pm
Operator : joannel
Sample : ECC3655-5
Misc : MS53194,V1P3666,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jan 20 00:45:55 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	3.454	54	626809	518.70	ug/L		96
46) Methacrylonitrile	3.475	41	2232397	512.27	ug/L		99
47) Benzene	3.486	78	925710	49.98	ug/L		86
48) TAME	3.559	73	648799	50.29	ug/L		99
50) Isobutyl alcohol	3.590	43	651485m	997.29	ug/L		
51) 1,2-Dichloroethane	3.580	62	285407	47.20	ug/L		97
52) Tert Amyl Alcohol	3.648	59	503814	501.83	ug/L		99
53) Trichloroethene	3.815	95	210268	45.68	ug/L		95
54) Methylcyclohexane	3.836	83	299577	47.57	ug/L		97
55) Dibromomethane	4.040	93	122754	46.79	ug/L		90
56) 1,2-Dichloropropane	4.103	63	207356	48.38	ug/L		98
57) Bromodichloromethane	4.139	83	240779	48.75	ug/L		97
58) Methyl methacrylate	4.228	41	240472	46.73	ug/L		98
59) 1,4-Dioxane	4.259	88	105485	1041.20	ug/L		91
60) 2-Chloroethyl vinyl ether	4.468	63	811624	225.05	ug/L		98
61) cis-1,3-Dichloropropene	4.516	75	307936	46.82	ug/L		99
64) Toluene	4.672	91	908156	40.62	ug/L		99
65) 2-Nitropropane	4.766	41	195066	163.11	ug/L		97
66) 4-Methyl-2-pentanone	4.882	43	1832982	206.43	ug/L		99
67) trans-1,3-Dichloropropene	4.913	75	274381	40.95	ug/L		88
68) Tetrachloroethene	4.929	166	208939	41.48	ug/L		97
69) Ethyl methacrylate	5.023	69	325474	41.73	ug/L		96
70) 1,1,2-Trichloroethane	5.012	83	157582	41.91	ug/L		95
71) Dibromochloromethane	5.138	129	162615	42.18	ug/L		99
72) 1,3-Dichloropropane	5.185	76	347644	41.98	ug/L		98
73) 1,2-Dibromoethane	5.289	107	185661	40.13	ug/L		100
74) 3,3-dimethyl-1-butanol	5.420	57	2647490	2104.08	ug/L		100
75) 2-hexanone	5.425	43	1940740	217.91	ug/L		92
76) 1-Chlorohexane	5.645	91	265517m	39.33	ug/L		
77) Ethylbenzene	5.676	91	959104	41.70	ug/L		100
78) Chlorobenzene	5.645	112	521505	40.99	ug/L		95
79) 1,1,1,2-Tetrachloroethane	5.692	131	165986	42.63	ug/L		96
80) m,p-Xylene	5.776	91	1504459	84.03	ug/L		100
81) o-Xylene	6.068	91	738651	41.65	ug/L		99
82) Styrene	6.105	104	576694	42.04	ug/L		99
83) Bromoform	6.110	173	95022	43.41	ug/L		97
84) Isopropylbenzene	6.298	105	866325	41.39	ug/L		98
87) cis-1,4-Dichloro-2-butene	6.518	53	91248	35.34	ug/L	#	84
88) n-Propylbenzene	6.602	91	999281	39.35	ug/L		100
89) Bromobenzene	6.565	156	191416	36.77	ug/L		94
90) 1,1,2,2-Tetrachloroethane	6.622	83	287322	41.36	ug/L		98
91) 1,3,5-Trimethylbenzene	6.748	105	700442	39.42	ug/L		97
92) 2-Chlorotoluene	6.706	91	595396	39.05	ug/L		100
93) trans-1,4-Dichloro-2-B...	6.753	53	98228	37.93	ug/L		92
94) 1,2,3-Trichloropropane	6.717	110	100619	38.95	ug/L		94
95) Cyclohexanone	6.743	55	86323	199.99	ug/L		96
96) 4-Chlorotoluene	6.826	91	613922	38.78	ug/L		100
97) tert-Butylbenzene	6.988	91	383236	39.09	ug/L		98
99) 1,2,4-Trimethylbenzene	7.041	105	663343	39.36	ug/L		99
100) Pentachloroethane	6.988	167	82915	34.90	ug/L	#	88
101) sec-Butylbenzene	7.124	105	766504	39.19	ug/L		99
102) 4-Isopropyltoluene	7.239	119	656556	39.63	ug/L		99
103) 1,3-Dichlorobenzene	7.271	146	360647	38.32	ug/L		99
104) 1,2,3-Trimethylbenzene	7.365	105	661833	40.15	ug/L		99
105) 1,4-Dichlorobenzene	7.339	146	374322	38.52	ug/L		99
106) n-Butylbenzene	7.553	92	308196	39.44	ug/L		98
107) Benzyl Chloride	7.516	126	61653	26.80	ug/L		94
108) 1,2-Dichlorobenzene	7.647	146	341002	38.76	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97285.D
Acq On : 19 Jan 2023 11:13 pm
Operator : joannel
Sample : ECC3655-5
Misc : MS53194,V1P3666,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jan 20 00:45:55 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration

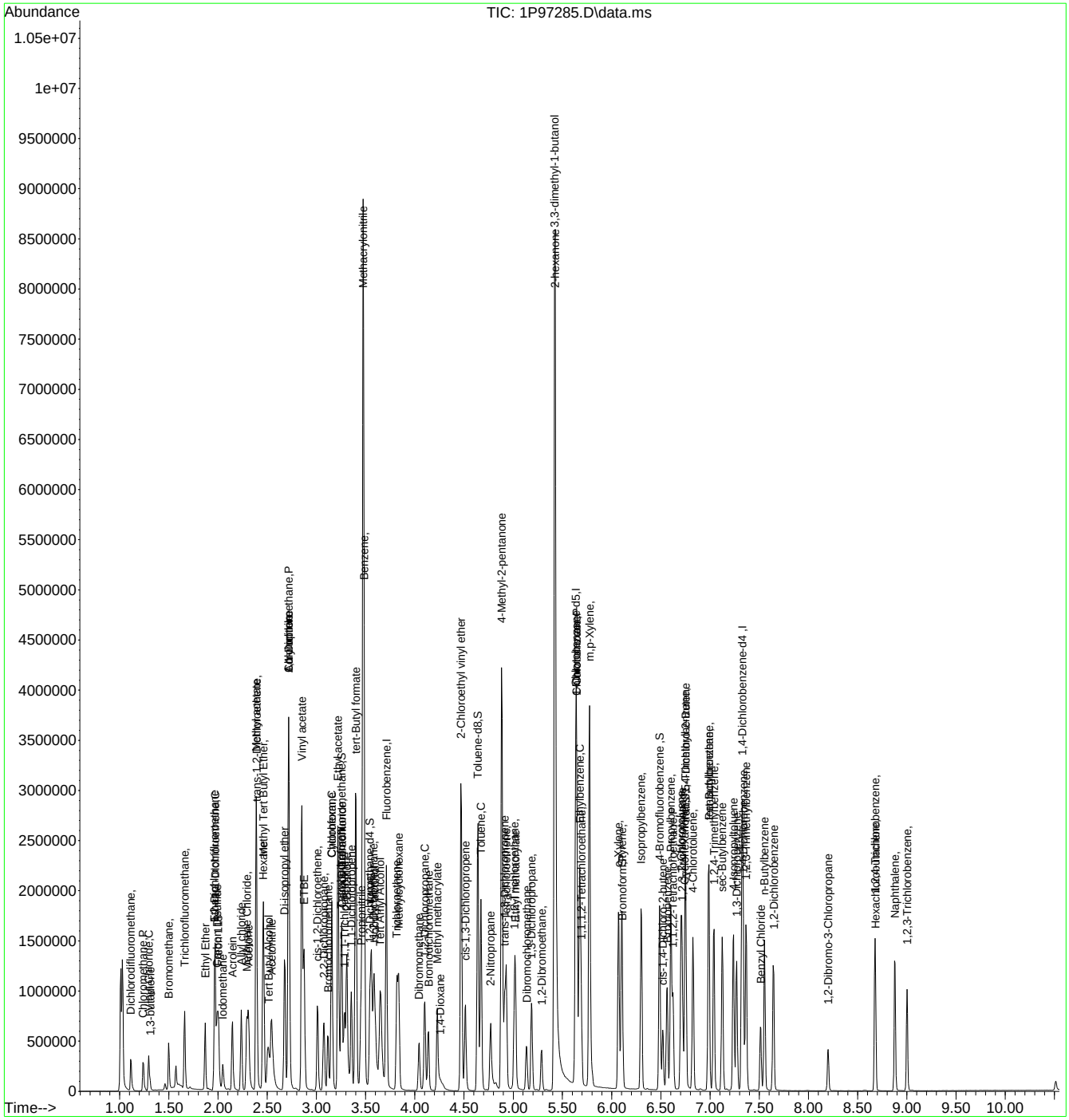
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	8.201	75	67899	41.45	ug/L	88
110) Hexachlorobutadiene	8.682	225	65475	37.33	ug/L	95
111) 1,2,4-Trichlorobenzene	8.677	180	173062	36.50	ug/L	96
112) Naphthalene	8.881	128	643929	37.80	ug/L	99
113) 1,2,3-Trichlorobenzene	9.001	180	168663	37.28	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97285.D
Acq On : 19 Jan 2023 11:13 pm
Operator : joannel
Sample : ECC3655-5
Misc : MS53194,V1P3666,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jan 20 00:45:55 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration



Manual Integration Approval Summary

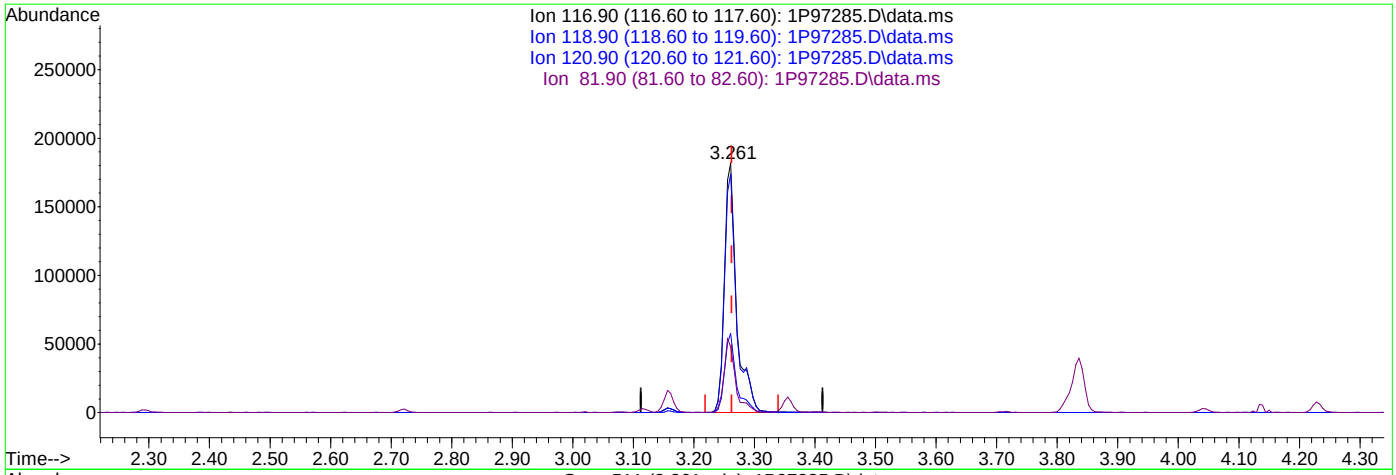
Sample Number: V1P3666-ECC3655 **Method:** SW846 8260D
Lab FileID: 1P97285.D **Analyst approved:** 01/20/23 00:49 Celine Celis
Injection Time: 01/19/23 23:13 **Supervisor approved:** 01/23/23 02:54 Jennifer Fereira

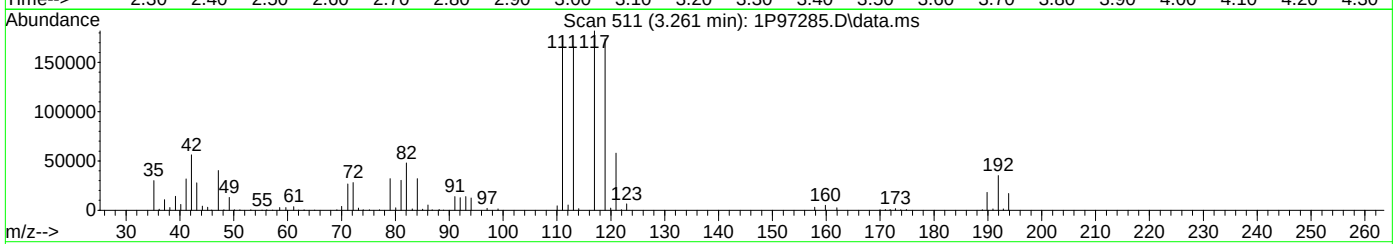
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.26	Overlapping peak
Isobutyl Alcohol	78-83-1		3.59	Poor instrument integration
1-Chlorohexane	544-10-5		5.64	Poor instrument integration

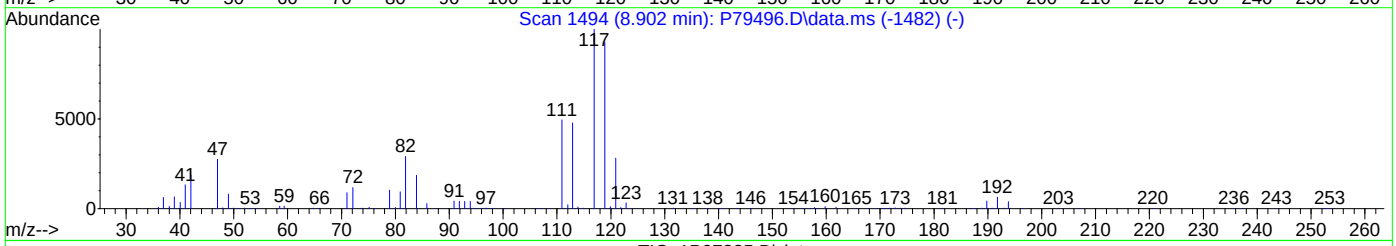
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97285.D
Acq On : 19 Jan 2023 11:13 pm
Operator : joannel
Sample : ECC3655-5
Misc : MS53194,V1P3666,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jan 19 23:57:57 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97285.D\data.ms

(40) Carbon Tetrachloride ( )

3.261min (-0.002) 53.28ug/L

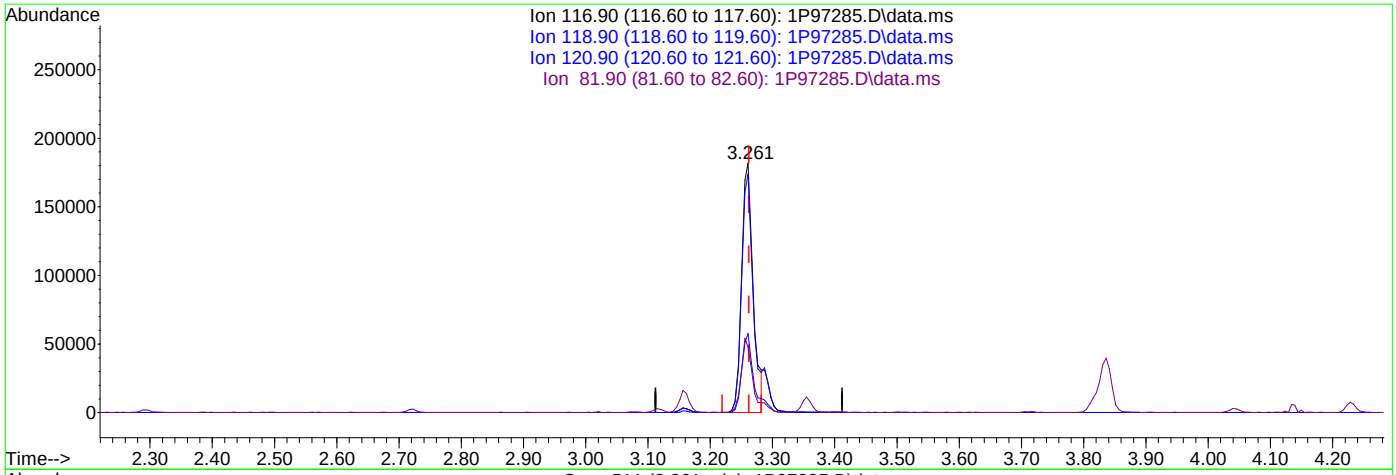
response 256800

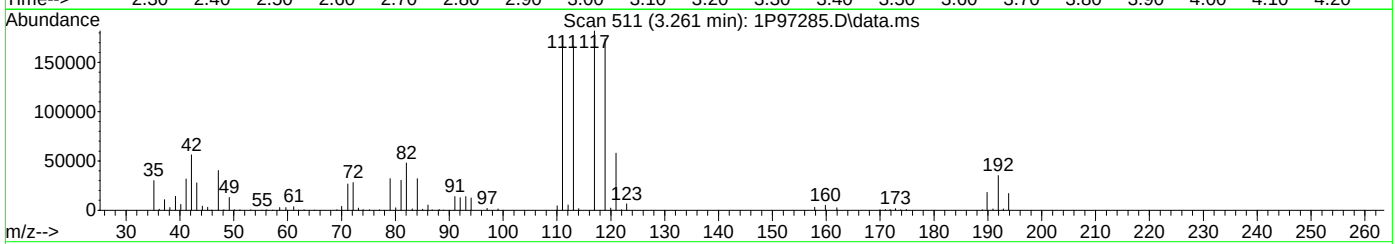
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	95.57
120.90	29.70	31.76
81.90	28.20	26.18

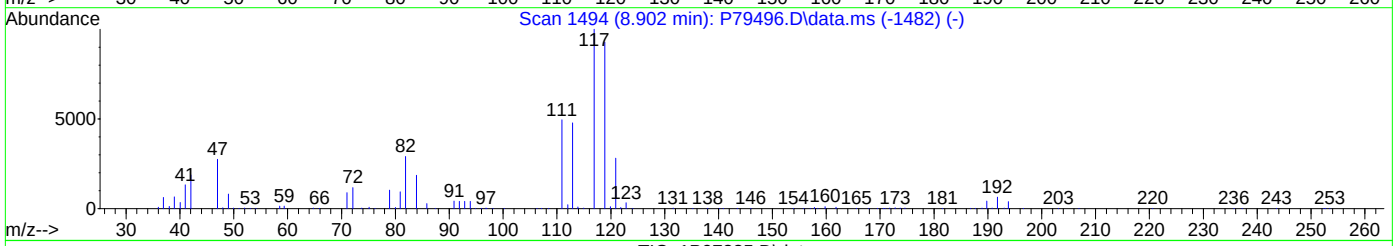
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97285.D
Acq On : 19 Jan 2023 11:13 pm
Operator : joannel
Sample : ECC3655-5
Misc : MS53194,V1P3666,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jan 19 23:57:57 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97285.D\data.ms

(40) Carbon Tetrachloride ( )

3.261min (-0.002) 48.40ug/L m

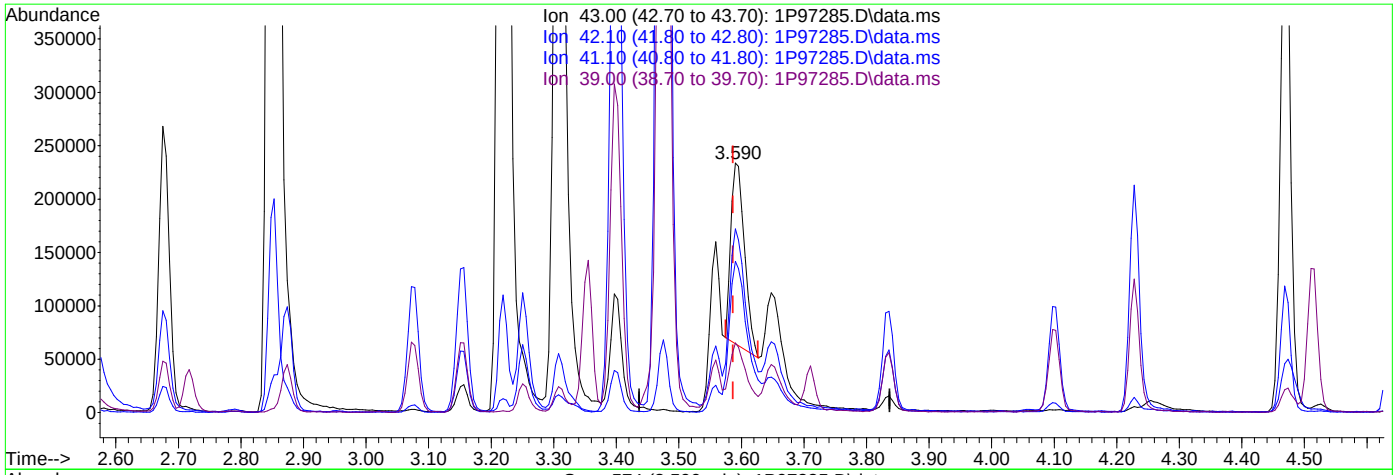
response 233285

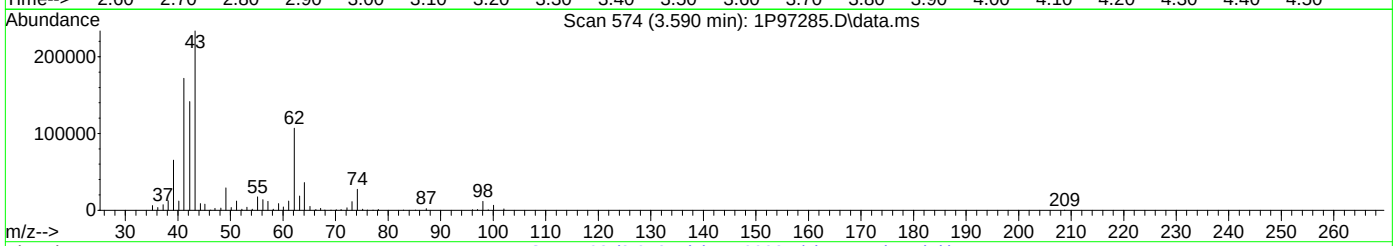
Ion	Exp%	Act%
116.90	100	100
118.90	96.00	95.57
120.90	29.70	31.76
81.90	28.20	26.31

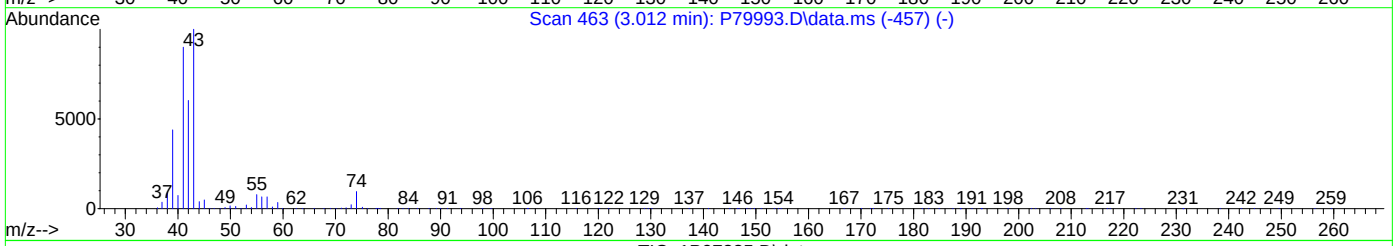
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97285.D
Acq On : 19 Jan 2023 11:13 pm
Operator : joannel
Sample : ECC3655-5
Misc : MS53194,V1P3666,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jan 19 23:57:57 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97285.D\data.ms

(50) Isobutyl alcohol

3.590min (+0.004) 390.04ug/L

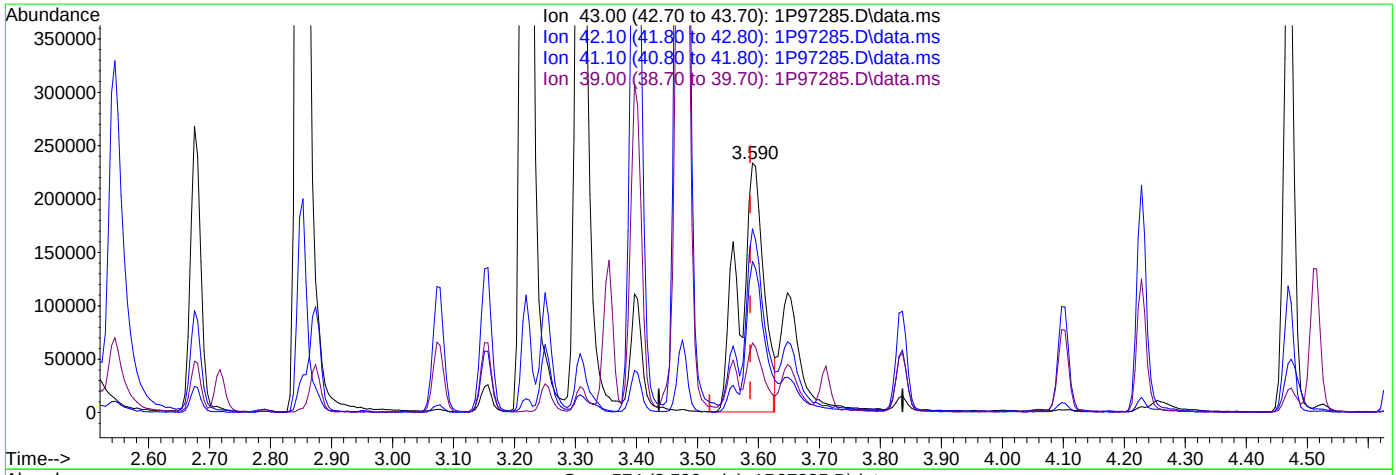
response 254795

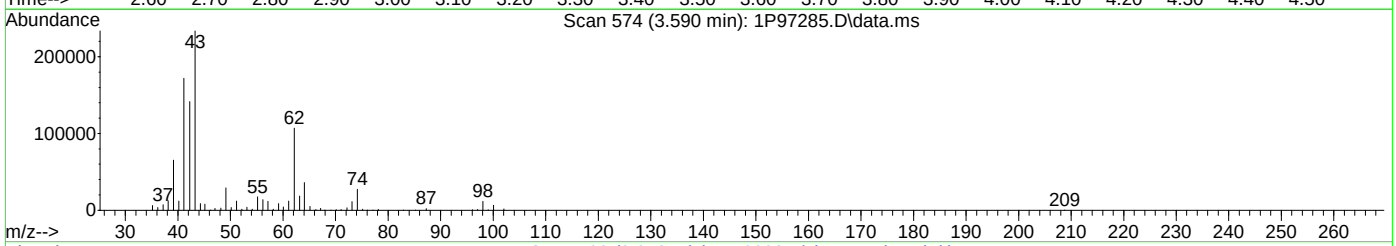
Ion	Exp%	Act%
43.00	100	100
42.10	59.80	60.89
41.10	70.50	73.24
39.00	27.50	27.57

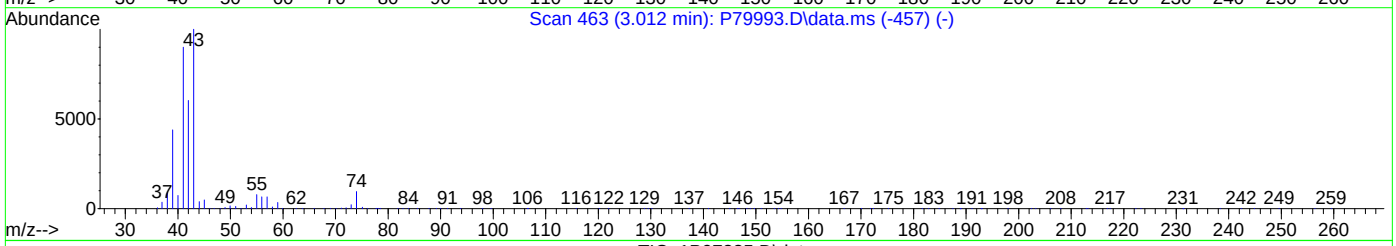
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97285.D
Acq On : 19 Jan 2023 11:13 pm
Operator : joannel
Sample : ECC3655-5
Misc : MS53194,V1P3666,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jan 19 23:57:57 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97285.D\data.ms

(50) Isobutyl alcohol

3.590min (+0.004) 997.29ug/L m

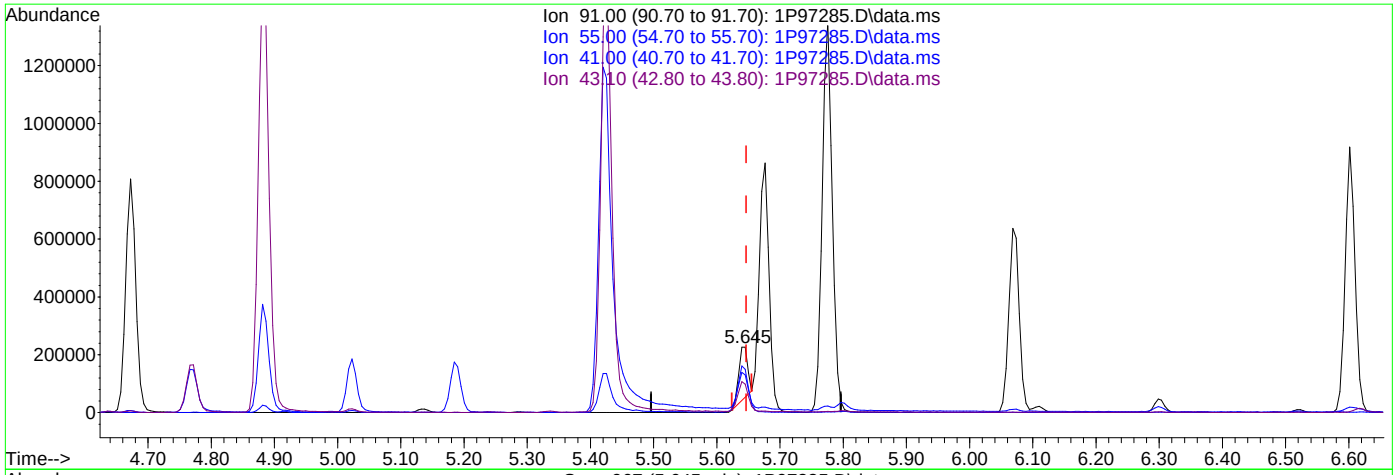
response 651485

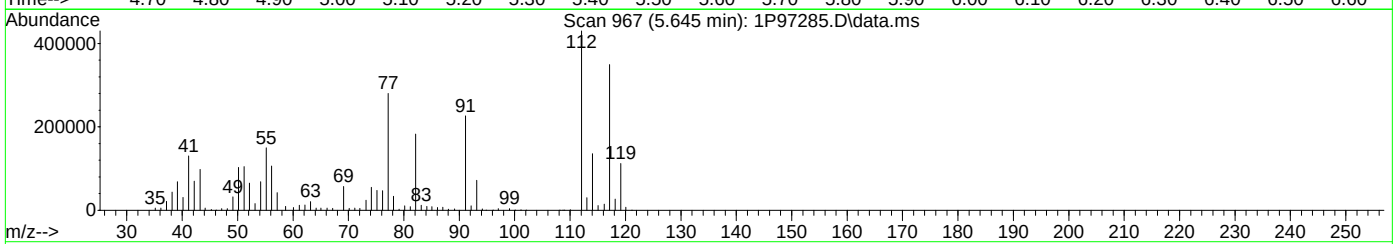
Ion	Exp%	Act%
43.00	100	100
42.10	59.80	60.56
41.10	70.50	73.54
39.00	27.50	27.93

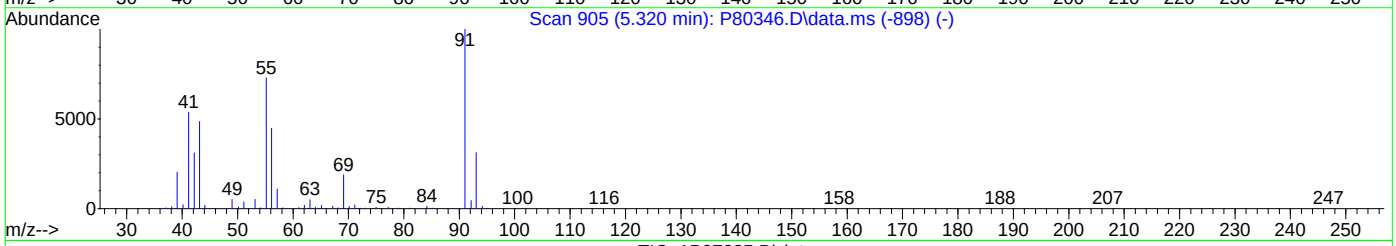
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97285.D
Acq On : 19 Jan 2023 11:13 pm
Operator : joannel
Sample : ECC3655-5
Misc : MS53194,V1P3666,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jan 19 23:57:57 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97285.D\data.ms

(76) 1-Chlorohexane

5.645min (-0.002) 27.44ug/L

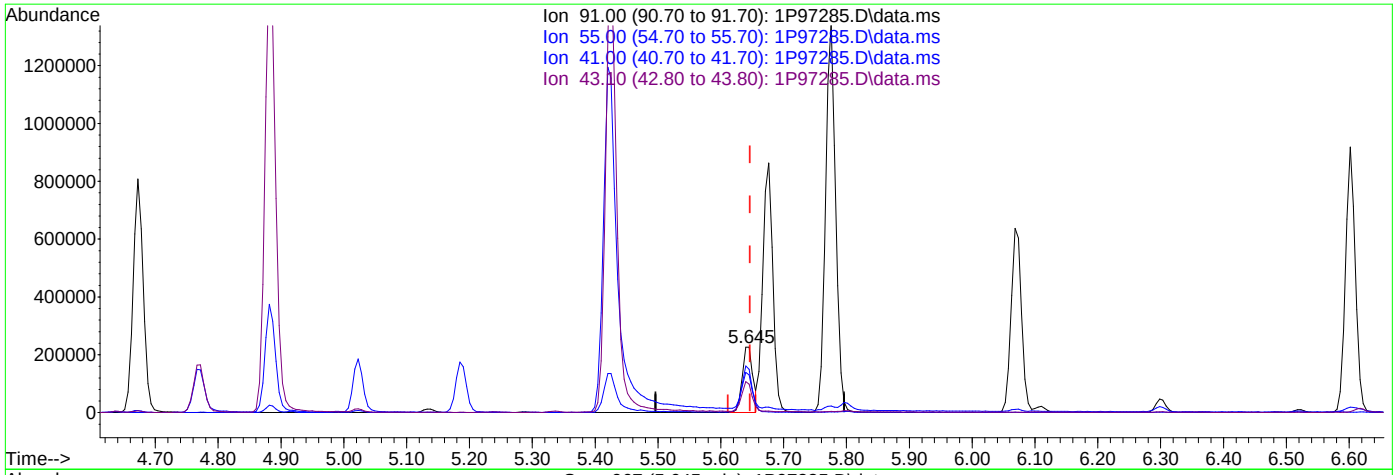
response 185266

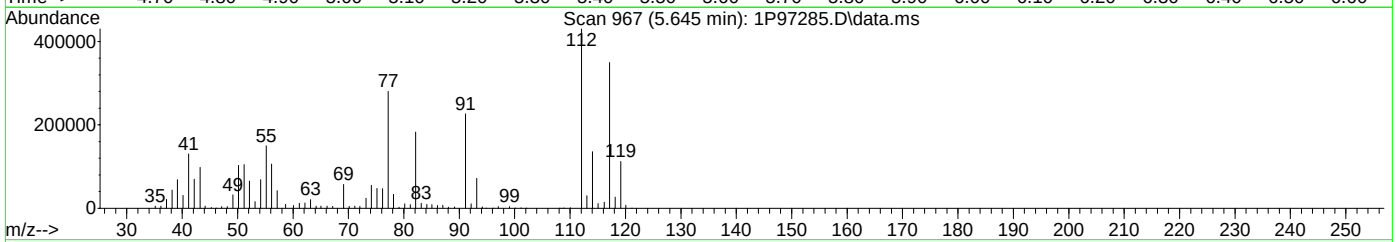
Ion	Exp%	Act%
91.00	100	100
55.00	69.00	63.00
41.00	56.30	50.47
43.10	43.30	40.55

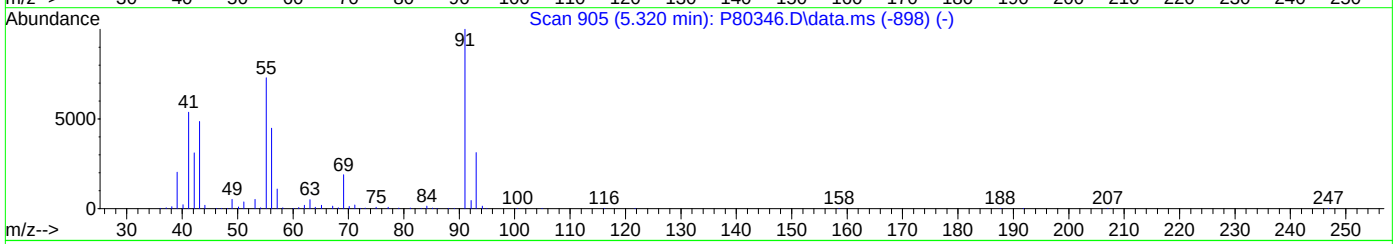
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\celinec\2023\January 2023\01-20-2023\V1P3666-67\
Data File : 1P97285.D
Acq On : 19 Jan 2023 11:13 pm
Operator : joannel
Sample : ECC3655-5
Misc : MS53194,V1P3666,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jan 19 23:57:57 2023
Quant Method : C:\msdchem\1\methods\V1P_2022-12-29.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu Dec 29 16:53:50 2022
Response via : Initial Calibration







TIC: 1P97285.D\data.ms

(76) 1-Chlorohexane

5.645min (-0.002) 39.33ug/L m

response 265517

Ion	Exp%	Act%
91.00	100	100
55.00	69.00	65.97
41.00	56.30	57.54
43.10	43.30	43.22

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 01/17/23 12:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36580.D
Acq On : 13 Jan 2023 10:14 am
Operator : joannel
Sample : IC1647-1
Misc : MS53151,V5E1647,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 10:34:45 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.951	96	715044	50.00	ug/L		0.00
61) Chlorobenzene-d5	12.109	117	535759	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	300247	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	8.073	113	199360	48.82	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.64%				
49) 1,2-Dichloroethane-d4	8.659	65	229542	57.81	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 115.62%				
62) Toluene-d8	10.542	98	723325	50.48	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.96%				
86) 4-Bromofluorobenzene	13.328	95	254012	52.81	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.62%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.849	85	4498	1.34	ug/L		94
3) Chloromethane	3.221	50	5539	1.95	ug/L		94
4) Vinyl Chloride	3.367	62	4781	1.58	ug/L		99
5) 1,3-Butadiene	3.404	39	817	0.70	ug/L	#	61
6) Bromomethane	3.934	94	2360	1.79	ug/L		73
7) Chloroethane	4.153	64	2953	1.67	ug/L		87
8) Trichlorofluoromethane	4.391	101	7004	1.38	ug/L		92
9) Ethyl Ether	4.867	59	3421	1.37	ug/L		83
11) 1,2-Dichlorotrifluoroe...	5.147	67	5272	1.43	ug/L		85
12) 1,1-Dichloroethene	5.159	61	5735	1.40	ug/L		91
13) Freon 113	5.220	101	4365	1.25	ug/L		90
14) Carbon Disulfide	5.208	76	13644	1.45	ug/L		99
15) Iodomethane	5.367	142	2023	0.83	ug/L		87
16) Acrolein	5.641	56	2331	4.29	ug/L		89
17) Allyl chloride	5.818	41	4375	1.61	ug/L		92
18) Methylene Chloride	5.958	49	7742	2.06	ug/L		87
19) Acetone	6.025	43	5489	6.58	ug/L		98
20) Methyl acetate	6.183	43	11858	6.88	ug/L		92
21) trans-1,2-Dichloroethene	6.177	61	5874	1.46	ug/L		84
22) Hexane	6.263	56	4248	1.81	ug/L		92
23) Methyl Tert Butyl Ether	6.293	73	12209	1.29	ug/L		83
24) Acetonitrile	6.641	41	3717	14.92	ug/L	#	48
25) Di-isopropyl ether	6.757	45	12825	1.67	ug/L		89
26) Chloroprene	6.909	53	8957	2.97	ug/L		96
27) 1,1-Dichloroethane	6.939	63	8014	1.53	ug/L		97
28) Acrylonitrile	7.013	53	6814	7.22	ug/L		89
29) ETBE	7.189	59	12773	1.42	ug/L		91
30) Tert Butyl Alcohol	6.391	59	4056	12.61	ug/L	#	68
31) Vinyl acetate	7.220	43	32700	6.46	ug/L		95
32) cis-1,2-Dichloroethene	7.580	96	4292	1.19	ug/L		84
33) 2,2-Dichloropropane	7.708	77	6523	1.34	ug/L		98
34) Bromochloromethane	7.811	128	2094	1.10	ug/L		84
35) Cyclohexane	7.823	56	7853	1.74	ug/L		80
36) Chloroform	7.872	83	7781	1.27	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36580.D
Acq On : 13 Jan 2023 10:14 am
Operator : joannel
Sample : IC1647-1
Misc : MS53151,V5E1647,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 10:34:45 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Ethyl acetate	7.988	43	17330	6.86	ug/L		97
38) Tetrahydrofuran	8.086	42	1179	1.47	ug/L	#	58
40) Carbon Tetrachloride	8.055	117	5879	1.19	ug/L		91
41) 1,1,1-Trichloroethane	8.122	97	6892	1.26	ug/L		92
42) 2-Butanone	8.214	43	7376	5.93	ug/L		85
43) 1,1-Dichloropropene	8.256	75	5513	1.26	ug/L		87
44) tert-Butyl formate	8.354	59	14323	11.37	ug/L	#	84
45) Propionitrile	8.549	54	4485	10.78	ug/L	#	3
46) Methacrylonitrile	8.555	41	22700	13.67	ug/L		90
47) Benzene	8.524	78	16854	1.32	ug/L		96
48) TAME	8.610	73	11020	1.20	ug/L		95
50) 1,2-Dichloroethane	8.732	62	6163	1.43	ug/L		81
51) tert Amyl alcohol	8.793	59	2845	11.18	ug/L		87
52) Trichloroethene	9.134	95	4403	1.17	ug/L		86
53) Methylcyclohexane	9.128	83	7588	1.38	ug/L		90
54) Dibromomethane	9.579	93	2822	1.20	ug/L		87
55) 1,2-Dichloropropane	9.677	63	4308	1.46	ug/L		76
56) Bromodichloromethane	9.719	83	5141	1.15	ug/L	#	94
57) Methyl methacrylate	9.841	41	2177	1.00	ug/L	#	57
59) 2-Chloroethyl vinyl ether	10.268	63	7483	5.37	ug/L		88
60) cis-1,3-Dichloropropene	10.359	75	5660	1.15	ug/L		75
63) Toluene	10.597	91	18930	1.30	ug/L		94
64) Isobutyl alcohol	8.689	43	2892	25.79	ug/L	#	75
65) 2-Nitropropane	10.823	41	5061	7.08	ug/L	#	81
66) 4-Methyl-2-pentanone	10.945	43	17092	6.25	ug/L		93
67) trans-1,3-Dichloropropene	11.006	75	4272	1.01	ug/L	#	68
68) Tetrachloroethene	11.006	166	5245	1.17	ug/L		77
69) Ethyl methacrylate	11.109	69	3055	0.77	ug/L		92
70) 1,1,2-Trichloroethane	11.164	83	3166	1.18	ug/L		89
71) Dibromochloromethane	11.365	129	4121	1.01	ug/L		93
72) 1,3-Dichloropropane	11.451	76	6881	1.30	ug/L		81
73) 1,2-Dibromoethane	11.628	107	3697	1.03	ug/L		81
74) 3,3-Dimethyl-1-butanol	11.713	57	16577	58.51	ug/L	#	82
75) 2-hexanone	11.774	43	9741	5.03	ug/L		94
76) 1-Chlorohexane	12.060	91	5296	1.12	ug/L		84
77) Ethylbenzene	12.121	91	22019	1.33	ug/L		82
78) Chlorobenzene	12.127	112	11960	1.18	ug/L		76
79) 1,1,1,2-Tetrachloroethane	12.182	131	4087	1.09	ug/L	#	79
80) m,p-Xylene	12.262	91	31171	2.45	ug/L		96
81) o-Xylene	12.707	91	14522	1.18	ug/L		98
82) Styrene	12.761	104	9894	1.03	ug/L		91
83) Bromoform	12.822	173	2497	0.97	ug/L		92
84) Isopropylbenzene	13.005	105	18903	1.14	ug/L		94
88) n-Propylbenzene	13.432	91	23280	1.26	ug/L		94
89) Bromobenzene	13.456	156	5100	1.15	ug/L	#	72
90) 1,1,2,2-Tetrachloroethane	13.499	83	4949	1.15	ug/L		96
91) 1,3,5-Trimethylbenzene	13.609	105	15272	1.13	ug/L		95
92) 2-Chlorotoluene	13.621	91	15267	1.26	ug/L		90
94) 1,2,3-Trichloropropane	13.664	110	1451	1.07	ug/L		86
96) 4-Chlorotoluene	13.792	91	13225	1.20	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36580.D
Acq On : 13 Jan 2023 10:14 am
Operator : joannel
Sample : IC1647-1
Misc : MS53151,V5E1647,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 10:34:45 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

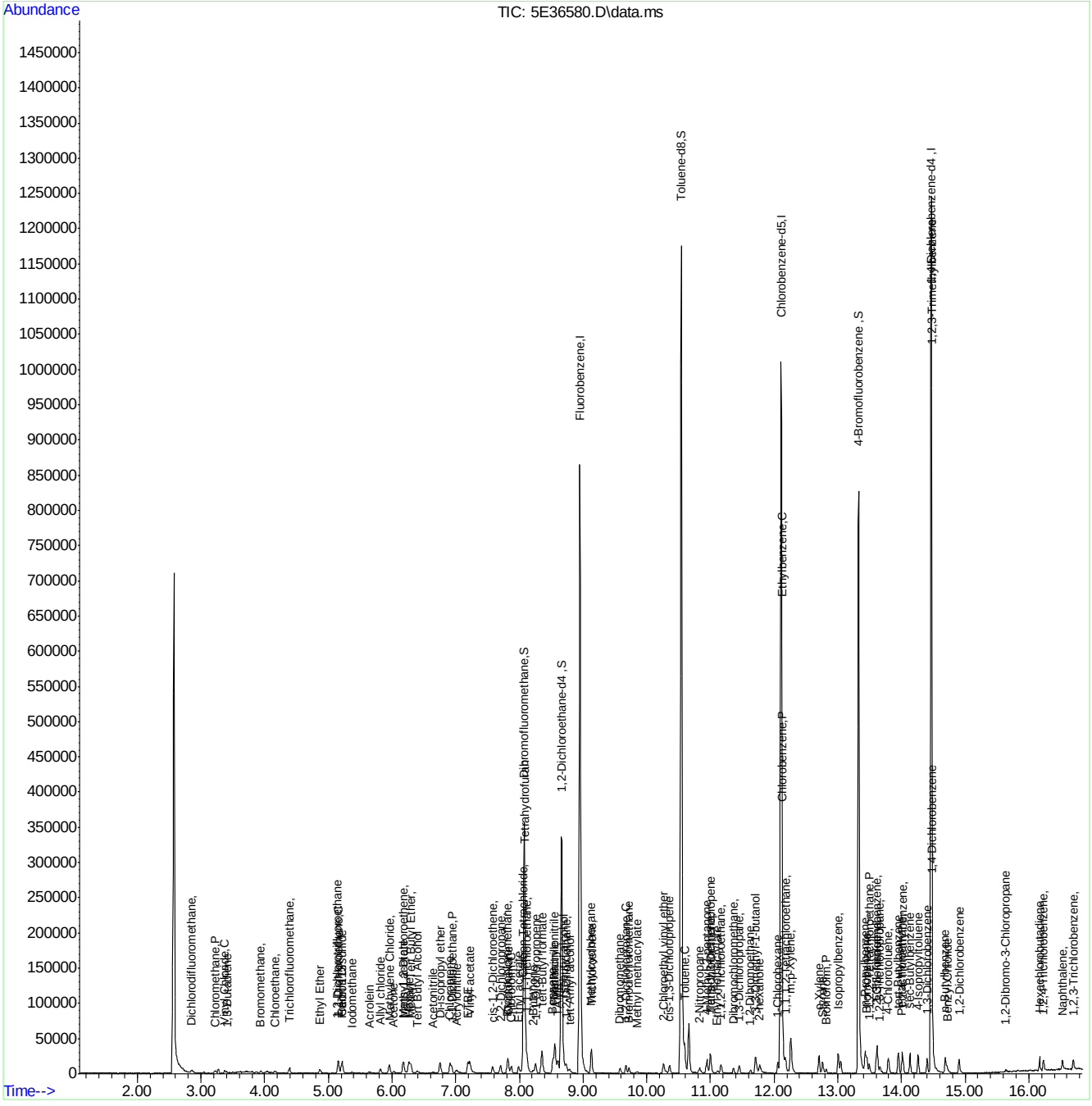
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
98) tert-Butylbenzene	13.950	91	9306	1.29	ug/L		86
99) 1,2,4-Trimethylbenzene	14.023	105	14422	1.10	ug/L		89
100) Pentachloroethane	14.005	167	2183	0.77	ug/L		90
101) sec-Butylbenzene	14.133	105	18864	1.17	ug/L		97
102) 4-Isopropyltoluene	14.261	119	15103	1.05	ug/L		91
103) 1,3-Dichlorobenzene	14.401	146	9189	1.13	ug/L		92
104) 1,2,3-Trimethylbenzene	14.475	105	15268	1.16	ug/L	#	72
105) 1,4-Dichlorobenzene	14.487	146	10080m	1.14	ug/L		
106) n-Butylbenzene	14.688	92	7765	1.05	ug/L		88
107) Benzyl Chloride	14.718	126	953	0.68	ug/L	#	76
108) 1,2-Dichlorobenzene	14.907	146	8348	1.06	ug/L		95
109) 1,2-Dibromo-3-Chloropr...	15.639	75	817	1.13	ug/L	#	67
110) Hexachlorobutadiene	16.169	225	3037	1.53	ug/L		90
111) 1,2,4-Trichlorobenzene	16.230	180	5352	1.09	ug/L		90
112) Naphthalene	16.529	128	13184	1.11	ug/L		98
113) 1,2,3-Trichlorobenzene	16.700	180	4453	1.07	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36580.D
Acq On : 13 Jan 2023 10:14 am
Operator : joannel
Sample : IC1647-1
Misc : MS53151,V5E1647,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 10:34:45 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration



Manual Integration Approval Summary

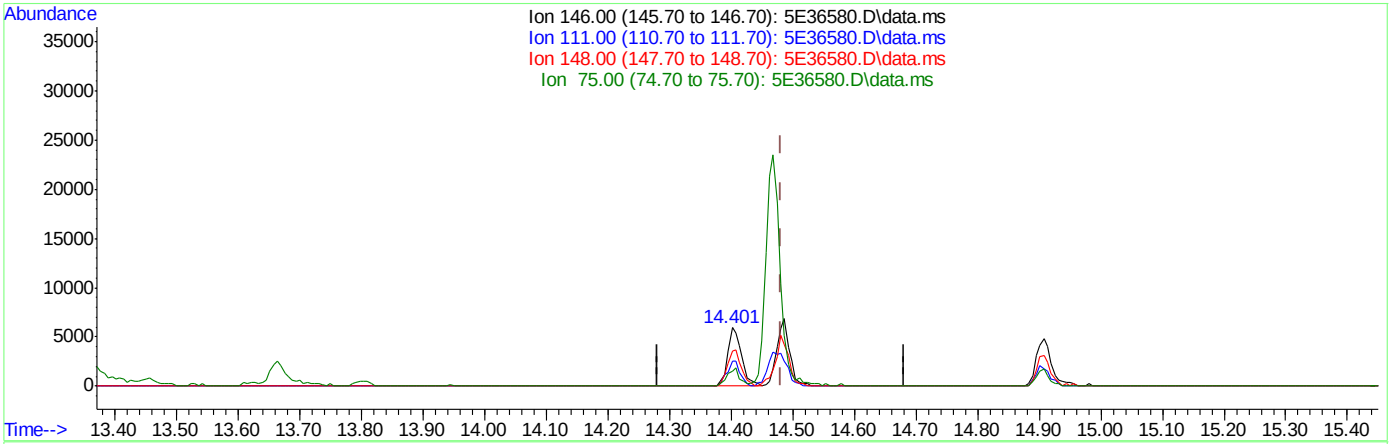
Sample Number:	V5E1647-IC1647	**Method:**	SW846 8260D
Lab FileID:	5E36580.D	**Analyst approved:**	01/13/23 15:23 Jo-Ann Lugo De Jesus
Injection Time:	01/13/23 10:14	**Supervisor approved:**	01/17/23 12:53 Neil Christiana

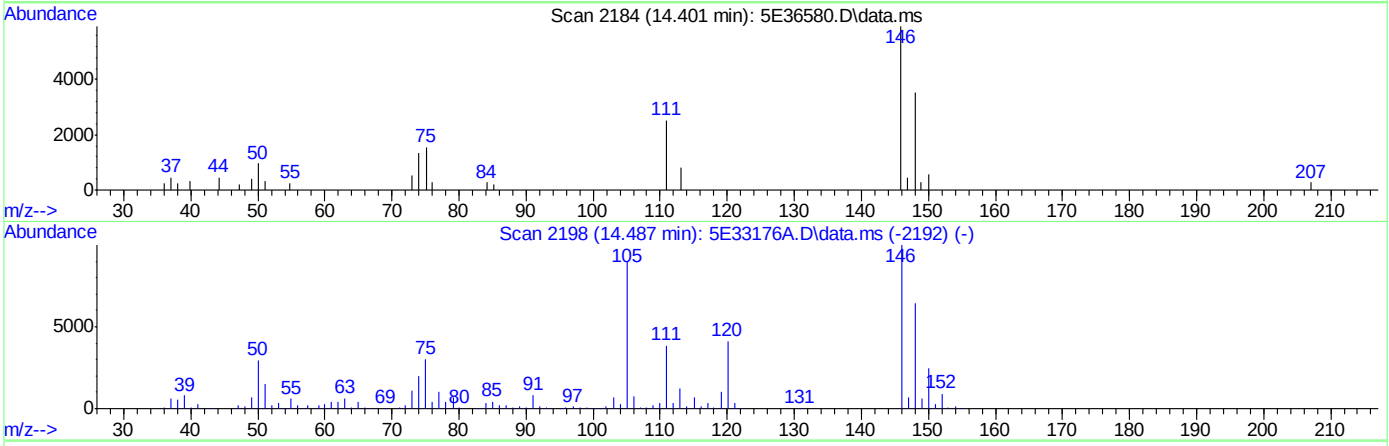
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dichlorobenzene	106-46-7		14.49	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36580.D
Acq On : 13 Jan 2023 10:14 am
Operator : joannel
Sample : IC1647-1
Misc : MS53151,V5E1647,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 10:31:54 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration





TIC: 5E36580.D\data.ms

(105) 1,4-Dichlorobenzene

14.401min (-0.080) 1.04ug/L

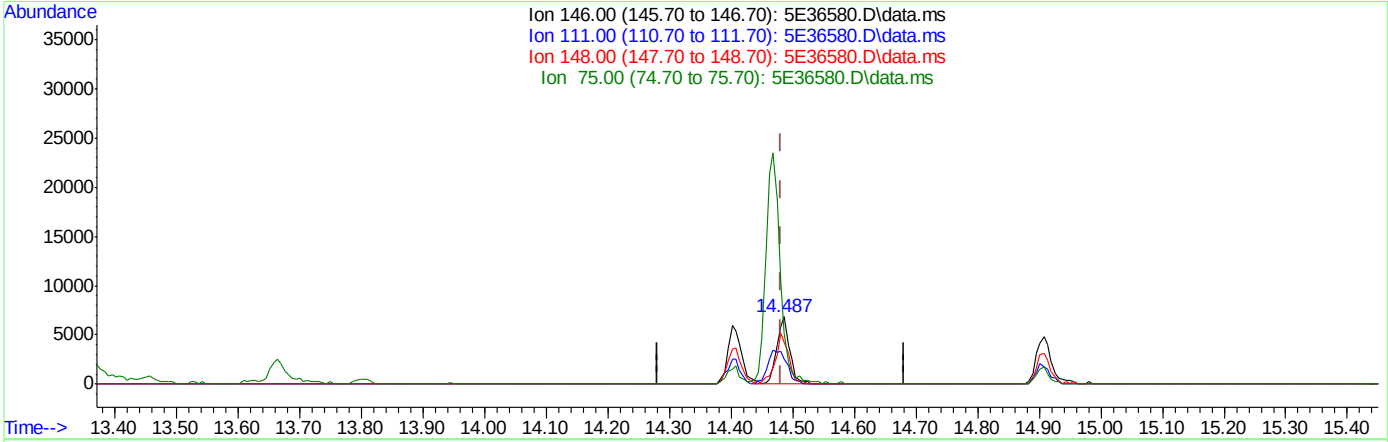
response 9189

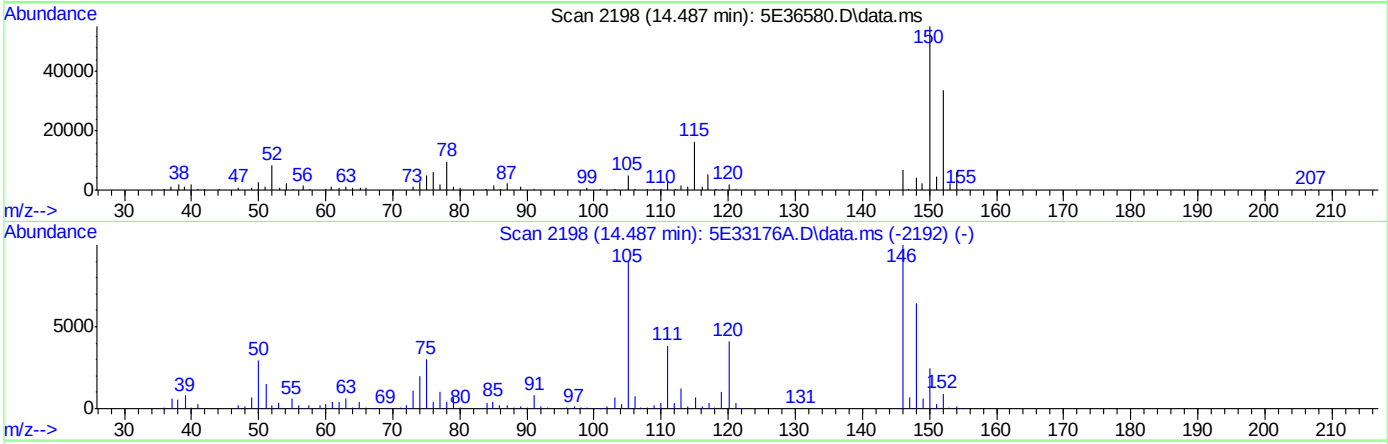
Ion	Exp%	Act%
146.00	100	100
111.00	35.80	42.60
148.00	65.00	59.83
75.00	27.10	26.35

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36580.D
Acq On : 13 Jan 2023 10:14 am
Operator : joannel
Sample : IC1647-1
Misc : MS53151,V5E1647,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 10:31:54 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration





TIC: 5E36580.D\data.ms

(105) 1,4-Dichlorobenzene

14.487min (+0.006) 1.14ug/L m

response 10080

Ion	Exp%	Act%
146.00	100	100
111.00	35.80	37.84
148.00	65.00	61.55
75.00	27.10	74.99#

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36581.D
Acq On : 13 Jan 2023 10:38 am
Operator : joannel
Sample : IC1647-2
Misc : MS53151,V5E1647,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 13 10:56:25 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.951	96	699176	50.00	ug/L		0.00
61) Chlorobenzene-d5	12.109	117	513584	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	295610	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	8.079	113	193059	48.35	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.70%				
49) 1,2-Dichloroethane-d4	8.658	65	225380	58.05	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 116.10%				
62) Toluene-d8	10.542	98	709958	51.69	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.38%				
86) 4-Bromofluorobenzene	13.328	95	250085	52.81	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.62%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.849	85	16737	5.10	ug/L		99
3) Chloromethane	3.214	50	19259	6.92	ug/L		96
4) Vinyl Chloride	3.367	62	18281	6.18	ug/L		89
5) 1,3-Butadiene	3.403	39	1873	1.65	ug/L		93
6) Bromomethane	3.940	94	8777	6.63	ug/L		95
7) Chloroethane	4.159	64	11178	6.16	ug/L		98
8) Trichlorofluoromethane	4.391	101	25982	5.22	ug/L		98
9) Ethyl Ether	4.867	59	15783	6.46	ug/L		93
10) Ethanol	5.104	45	2116	87.30	ug/L		89
11) 1,2-Dichlorotrifluoroe...	5.147	67	22293	6.17	ug/L		90
12) 1,1-Dichloroethene	5.159	61	24939	6.24	ug/L		88
13) Freon 113	5.214	101	17902	5.23	ug/L		95
14) Carbon Disulfide	5.208	76	50908	5.52	ug/L		89
15) Iodomethane	5.366	142	10439	4.30	ug/L		96
16) Acrolein	5.635	56	18045	33.95	ug/L		95
17) Allyl chloride	5.818	41	26731	10.09	ug/L		94
18) Methylene Chloride	5.958	49	27383	7.47	ug/L		82
19) Acetone	6.025	43	24098	29.56	ug/L		99
20) Methyl acetate	6.177	43	60502	35.91	ug/L		88
21) trans-1,2-Dichloroethene	6.177	61	25544	6.48	ug/L		87
22) Hexane	6.263	56	16855	7.34	ug/L		97
23) Methyl Tert Butyl Ether	6.293	73	57932	6.24	ug/L		92
24) Acetonitrile	6.622	41	23768	97.55	ug/L		91
25) Di-isopropyl ether	6.756	45	59291	7.88	ug/L		91
26) Chloroprene	6.909	53	58076	19.42	ug/L	#	86
27) 1,1-Dichloroethane	6.939	63	34939	6.82	ug/L		98
28) Acrylonitrile	7.000	53	30977	33.57	ug/L		96
29) ETBE	7.189	59	60724	6.91	ug/L		91
30) Tert Butyl Alcohol	6.391	59	21495	68.34	ug/L		98
31) Vinyl acetate	7.220	43	166669	33.70	ug/L		99
32) cis-1,2-Dichloroethene	7.579	96	19177	5.42	ug/L	#	79
33) 2,2-Dichloropropane	7.701	77	28405	5.95	ug/L		97
34) Bromochloromethane	7.811	128	10361	5.58	ug/L	#	85
35) Cyclohexane	7.823	56	29867	6.78	ug/L		84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36581.D
Acq On : 13 Jan 2023 10:38 am
Operator : joannel
Sample : IC1647-2
Misc : MS53151,V5E1647,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 13 10:56:25 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Chloroform	7.872	83	35531	5.93	ug/L	94
37) Ethyl acetate	7.982	43	84898	34.38	ug/L	94
38) Tetrahydrofuran	8.073	42	6205	7.92	ug/L	93
40) Carbon Tetrachloride	8.049	117	25821	5.37	ug/L	97
41) 1,1,1-Trichloroethane	8.122	97	30381	5.69	ug/L	94
42) 2-Butanone	8.207	43	35289	29.00	ug/L	83
43) 1,1-Dichloropropene	8.256	75	24988	5.84	ug/L	95
44) tert-Butyl formate	8.354	59	82561	67.05	ug/L	94
45) Propionitrile	8.537	54	35353	86.91	ug/L	90
46) Methacrylonitrile	8.555	41	153460	94.53	ug/L	98
47) Benzene	8.524	78	72260	5.77	ug/L	92
48) TAME	8.610	73	55750	6.22	ug/L	92
50) 1,2-Dichloroethane	8.738	62	27502	6.55	ug/L	97
51) tert Amyl alcohol	8.787	59	16911	67.32	ug/L	99
52) Trichloroethene	9.134	95	19640	5.34	ug/L	94
53) Methylcyclohexane	9.128	83	29242	5.44	ug/L	86
54) Dibromomethane	9.579	93	13076	5.68	ug/L	89
55) 1,2-Dichloropropane	9.670	63	19650	6.82	ug/L	95
56) Bromodichloromethane	9.719	83	25660	5.87	ug/L	95
57) Methyl methacrylate	9.835	41	19413	9.13	ug/L	90
58) 1,4-Dioxane	9.927	88	3335	106.58	ug/L	76
59) 2-Chloroethyl vinyl ether	10.262	63	46957	34.48	ug/L	96
60) cis-1,3-Dichloropropene	10.353	75	27328	5.70	ug/L	88
63) Toluene	10.597	91	79547	5.69	ug/L	98
64) Isobutyl alcohol	8.677	43	17033	158.48	ug/L	95
65) 2-Nitropropane	10.829	41	25300	36.90	ug/L	95
66) 4-Methyl-2-pentanone	10.939	43	78301	29.88	ug/L	94
67) trans-1,3-Dichloropropene	10.999	75	23741	5.88	ug/L	92
68) Tetrachloroethene	10.999	166	22569	5.26	ug/L	97
69) Ethyl methacrylate	11.103	69	26441	6.90	ug/L	87
70) 1,1,2-Trichloroethane	11.164	83	16016	6.22	ug/L	95
71) Dibromochloromethane	11.359	129	20659	5.27	ug/L	99
72) 1,3-Dichloropropane	11.451	76	30937	6.09	ug/L	88
73) 1,2-Dibromoethane	11.627	107	18704	5.41	ug/L	95
74) 3,3-Dimethyl-1-butanol	11.707	57	80551	296.58	ug/L	89
75) 2-hexanone	11.768	43	53827	29.00	ug/L	92
76) 1-Chlorohexane	12.054	91	24229	5.34	ug/L	74
77) Ethylbenzene	12.121	91	88914	5.61	ug/L	93
78) Chlorobenzene	12.127	112	51725	5.34	ug/L	85
79) 1,1,1,2-Tetrachloroethane	12.176	131	18807	5.22	ug/L	91
80) m,p-Xylene	12.261	91	137398	11.25	ug/L	98
81) o-Xylene	12.706	91	68661	5.82	ug/L	97
82) Styrene	12.755	104	48747	5.31	ug/L	91
83) Bromoform	12.816	173	13700	5.46	ug/L	96
84) Isopropylbenzene	13.005	105	85200	5.38	ug/L	97
87) cis-1,4-Dichloro-2-butene	13.682	53	5432	7.35	ug/L	84
88) n-Propylbenzene	13.426	91	103175	5.65	ug/L	92
89) Bromobenzene	13.456	156	23943	5.46	ug/L	82
90) 1,1,2,2-Tetrachloroethane	13.493	83	25540	6.05	ug/L	98
91) 1,3,5-Trimethylbenzene	13.609	105	72117	5.42	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36581.D
Acq On : 13 Jan 2023 10:38 am
Operator : joannel
Sample : IC1647-2
Misc : MS53151,V5E1647,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 13 10:56:25 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

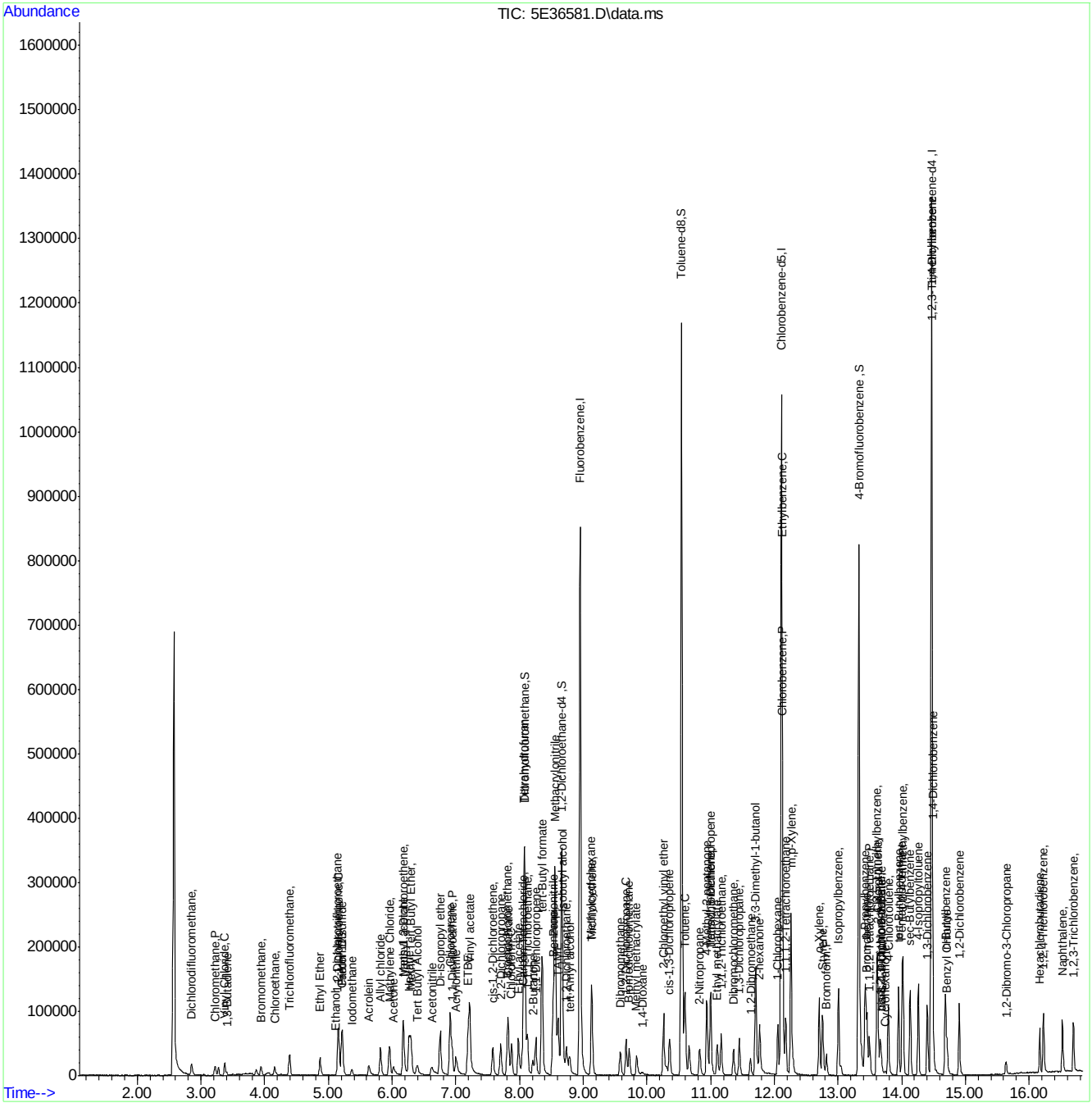
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 2-Chlorotoluene	13.621	91	69445	5.81	ug/L		96
93) trans-1,4-Dichloro-2-B...	13.682	53	5432	7.35	ug/L		84
94) 1,2,3-Trichloropropane	13.664	110	7853	5.86	ug/L	#	82
95) Cyclohexanone	13.743	55	2248	25.36	ug/L		79
96) 4-Chlorotoluene	13.792	91	60902	5.61	ug/L		95
98) tert-Butylbenzene	13.950	91	38657	5.44	ug/L		90
99) 1,2,4-Trimethylbenzene	14.017	105	68613	5.31	ug/L		98
100) Pentachloroethane	14.005	167	17266	6.21	ug/L		94
101) sec-Butylbenzene	14.133	105	84652	5.32	ug/L		96
102) 4-Isopropyltoluene	14.261	119	72552	5.14	ug/L		98
103) 1,3-Dichlorobenzene	14.401	146	41721	5.23	ug/L		92
104) 1,2,3-Trimethylbenzene	14.474	105	72587	5.60	ug/L		94
105) 1,4-Dichlorobenzene	14.487	146	46998	5.40	ug/L		95
106) n-Butylbenzene	14.688	92	38223	5.25	ug/L		92
107) Benzyl Chloride	14.712	126	7197	5.15	ug/L	#	72
108) 1,2-Dichlorobenzene	14.901	146	40707	5.24	ug/L		96
109) 1,2-Dibromo-3-Chloropr...	15.639	75	4013	5.62	ug/L	#	72
110) Hexachlorobutadiene	16.169	225	11139	5.72	ug/L		93
111) 1,2,4-Trichlorobenzene	16.224	180	25123	5.21	ug/L		89
112) Naphthalene	16.523	128	62099	5.31	ug/L		96
113) 1,2,3-Trichlorobenzene	16.694	180	22499	5.49	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36581.D
Acq On : 13 Jan 2023 10:38 am
Operator : joannel
Sample : IC1647-2
Misc : MS53151,V5E1647,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 13 10:56:25 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36582.D
Acq On : 13 Jan 2023 11:01 am
Operator : joannel
Sample : IC1647-3
Misc : MS53151,V5E1647,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 13 11:25:29 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.951	96	734930	50.00	ug/L		0.00
61) Chlorobenzene-d5	12.109	117	541847	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	317431	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	8.079	113	205291	48.92	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.84%				
49) 1,2-Dichloroethane-d4	8.665	65	240101	58.84	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 117.68%				
62) Toluene-d8	10.542	98	740859	51.12	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.24%				
86) 4-Bromofluorobenzene	13.328	95	267252	52.56	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.12%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.849	85	33439	9.68	ug/L		98
3) Chloromethane	3.220	50	37322	12.76	ug/L		99
4) Vinyl Chloride	3.373	62	35818	11.53	ug/L		97
5) 1,3-Butadiene	3.403	39	2691	2.25	ug/L		88
6) Bromomethane	3.940	94	16404	11.46	ug/L		96
7) Chloroethane	4.153	64	22843	11.35	ug/L		97
8) Trichlorofluoromethane	4.391	101	51607	9.85	ug/L		99
9) Ethyl Ether	4.873	59	29347	11.42	ug/L		93
10) Ethanol	5.123	45	5607	220.08	ug/L		83
11) 1,2-Dichlorotrifluoroe...	5.153	67	37474	9.87	ug/L		92
12) 1,1-Dichloroethene	5.159	61	43022	10.23	ug/L		90
13) Freon 113	5.220	101	30135	8.37	ug/L		96
14) Carbon Disulfide	5.208	76	85293	8.80	ug/L		96
15) Iodomethane	5.366	142	22718	8.69	ug/L		93
16) Acrolein	5.635	56	43956	78.68	ug/L		99
17) Allyl chloride	5.817	41	36467	13.10	ug/L		96
18) Methylene Chloride	5.958	49	46897	12.17	ug/L		83
19) Acetone	6.019	43	56802	66.28	ug/L		93
20) Methyl acetate	6.171	43	115416	65.17	ug/L		91
21) trans-1,2-Dichloroethene	6.171	61	44599	10.77	ug/L		85
22) Hexane	6.263	56	28787	11.92	ug/L		95
23) Methyl Tert Butyl Ether	6.293	73	104248	10.68	ug/L		88
24) Acetonitrile	6.622	41	37810	147.64	ug/L		93
25) Di-isopropyl ether	6.750	45	101191	12.79	ug/L		93
26) Chloroprene	6.909	53	78790	24.96	ug/L		88
27) 1,1-Dichloroethane	6.939	63	58369	10.83	ug/L		98
28) Acrylonitrile	7.000	53	67368	69.47	ug/L		98
29) ETBE	7.195	59	110698	11.98	ug/L		90
30) Tert Butyl Alcohol	6.397	59	43914	132.83	ug/L		98
31) Vinyl acetate	7.214	43	362550	69.74	ug/L		99
32) cis-1,2-Dichloroethene	7.579	96	35276	9.49	ug/L	#	79
33) 2,2-Dichloropropane	7.701	77	47230	9.42	ug/L		99
34) Bromochloromethane	7.811	128	18620	9.55	ug/L	#	79
35) Cyclohexane	7.823	56	49440	10.67	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36582.D
Acq On : 13 Jan 2023 11:01 am
Operator : joannel
Sample : IC1647-3
Misc : MS53151,V5E1647,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 13 11:25:29 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	7.872	83	60843	9.65	ug/L		96
37) Ethyl acetate	7.982	43	181101	69.77	ug/L		96
38) Tetrahydrofuran	8.073	42	10074	12.23	ug/L		89
40) Carbon Tetrachloride	8.049	117	43405	8.58	ug/L		97
41) 1,1,1-Trichloroethane	8.122	97	50719	9.04	ug/L		95
42) 2-Butanone	8.207	43	81738	63.90	ug/L		90
43) 1,1-Dichloropropene	8.256	75	41173	9.16	ug/L		95
44) tert-Butyl formate	8.354	59	197053	152.25	ug/L		97
45) Propionitrile	8.536	54	56274	131.62	ug/L		98
46) Methacrylonitrile	8.555	41	229871	134.71	ug/L		98
47) Benzene	8.524	78	124585	9.46	ug/L		94
48) TAME	8.604	73	101590	10.79	ug/L		90
50) 1,2-Dichloroethane	8.738	62	50788	11.50	ug/L		95
51) tert Amyl alcohol	8.780	59	34490	129.28	ug/L		92
52) Trichloroethene	9.134	95	35129	9.08	ug/L		91
53) Methylcyclohexane	9.134	83	51879	9.18	ug/L		90
54) Dibromomethane	9.579	93	24531	10.13	ug/L		99
55) 1,2-Dichloropropane	9.670	63	34137	11.27	ug/L		92
56) Bromodichloromethane	9.719	83	45100	9.81	ug/L	#	97
57) Methyl methacrylate	9.835	41	29535	13.21	ug/L	#	82
58) 1,4-Dioxane	9.920	88	6978	210.54	ug/L		91
59) 2-Chloroethyl vinyl ether	10.262	63	105492	73.68	ug/L		95
60) cis-1,3-Dichloropropene	10.359	75	51826	10.28	ug/L		92
63) Toluene	10.597	91	137894	9.35	ug/L		100
64) Isobutyl alcohol	8.677	43	28439	250.80	ug/L		95
65) 2-Nitropropane	10.829	41	49156	67.95	ug/L		97
66) 4-Methyl-2-pentanone	10.938	43	186013	67.28	ug/L		95
67) trans-1,3-Dichloropropene	10.999	75	46164	10.83	ug/L		93
68) Tetrachloroethene	10.999	166	38053	8.41	ug/L		93
69) Ethyl methacrylate	11.103	69	42379	10.41	ug/L		88
70) 1,1,2-Trichloroethane	11.164	83	28741	10.59	ug/L		92
71) Dibromochloromethane	11.359	129	38881	9.40	ug/L		96
72) 1,3-Dichloropropane	11.451	76	58679	10.96	ug/L		85
73) 1,2-Dibromoethane	11.627	107	35571	9.75	ug/L		95
74) 3,3-Dimethyl-1-butanol	11.707	57	223340	779.42	ug/L		91
75) 2-hexanone	11.768	43	136226	69.55	ug/L		92
76) 1-Chlorohexane	12.054	91	42253	8.83	ug/L	#	72
77) Ethylbenzene	12.121	91	155346	9.29	ug/L		95
78) Chlorobenzene	12.127	112	91801	8.99	ug/L		88
79) 1,1,1,2-Tetrachloroethane	12.176	131	34676	9.12	ug/L		96
80) m,p-Xylene	12.261	91	240481	18.67	ug/L		97
81) o-Xylene	12.706	91	120598	9.70	ug/L		98
82) Styrene	12.755	104	90010	9.29	ug/L		93
83) Bromoform	12.816	173	26584	9.85	ug/L		98
84) Isopropylbenzene	13.005	105	151227	9.05	ug/L		96
87) cis-1,4-Dichloro-2-butene	13.682	53	9747	12.28	ug/L		87
88) n-Propylbenzene	13.426	91	179406	9.15	ug/L		97
89) Bromobenzene	13.456	156	41720	8.87	ug/L	#	66
90) 1,1,2,2-Tetrachloroethane	13.493	83	46288	10.21	ug/L		96
91) 1,3,5-Trimethylbenzene	13.609	105	130650	9.14	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36582.D
Acq On : 13 Jan 2023 11:01 am
Operator : joannel
Sample : IC1647-3
Misc : MS53151,V5E1647,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 13 11:25:29 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

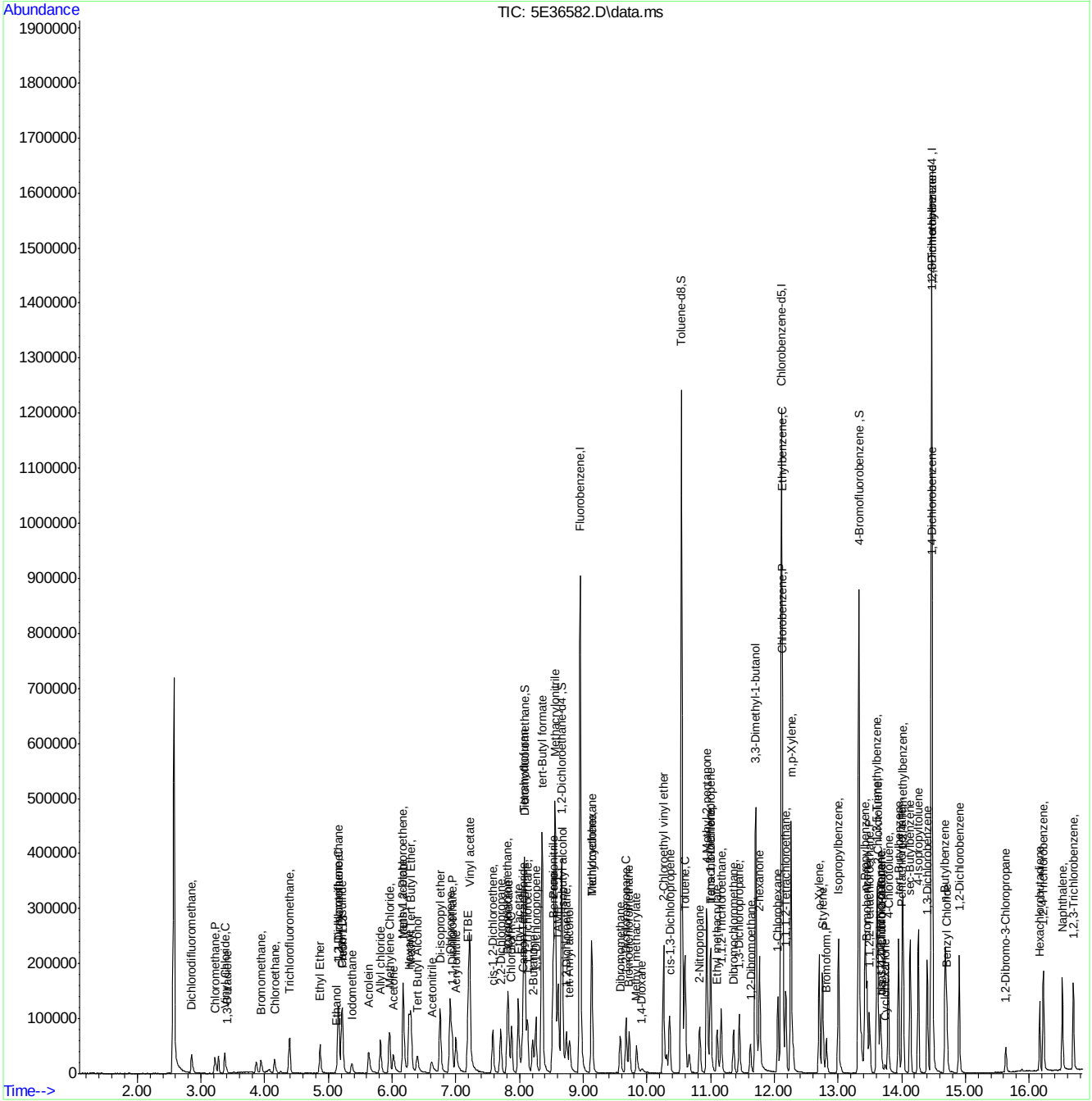
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	13.621	91	121754	9.49	ug/L		93
93)	trans-1,4-Dichloro-2-B...	13.682	53	9747	12.28	ug/L		87
94)	1,2,3-Trichloropropane	13.664	110	14250	9.90	ug/L		80
95)	Cyclohexanone	13.737	55	7390	77.65	ug/L	#	85
96)	4-Chlorotoluene	13.792	91	108995	9.36	ug/L		97
98)	tert-Butylbenzene	13.950	91	70952	9.30	ug/L		91
99)	1,2,4-Trimethylbenzene	14.017	105	132402	9.54	ug/L		96
100)	Pentachloroethane	14.005	167	24784	8.30	ug/L		96
101)	sec-Butylbenzene	14.133	105	151727	8.88	ug/L		97
102)	4-Isopropyltoluene	14.261	119	132823	8.76	ug/L		97
103)	1,3-Dichlorobenzene	14.401	146	76716	8.95	ug/L		97
104)	1,2,3-Trimethylbenzene	14.474	105	133367	9.57	ug/L		95
105)	1,4-Dichlorobenzene	14.480	146	82574	8.83	ug/L		89
106)	n-Butylbenzene	14.682	92	71937	9.20	ug/L		97
107)	Benzyl Chloride	14.712	126	14041	9.21	ug/L	#	68
108)	1,2-Dichlorobenzene	14.901	146	74778	8.96	ug/L		95
109)	1,2-Dibromo-3-Chloropr...	15.633	75	7978	10.40	ug/L	#	74
110)	Hexachlorobutadiene	16.169	225	20191	9.65	ug/L		98
111)	1,2,4-Trichlorobenzene	16.224	180	51058	9.86	ug/L		96
112)	Naphthalene	16.523	128	122485	9.75	ug/L		99
113)	1,2,3-Trichlorobenzene	16.693	180	44304	10.07	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36582.D
Acq On : 13 Jan 2023 11:01 am
Operator : joannel
Sample : IC1647-3
Misc : MS53151,V5E1647,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 13 11:25:29 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36583.D
Acq On : 13 Jan 2023 11:24 am
Operator : joannel
Sample : IC1647-4
Misc : MS53151,V5E1647,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 13 11:41:37 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.951	96	714017	50.00	ug/L		0.00
61) Chlorobenzene-d5	12.109	117	533828	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	314571	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	8.079	113	202080	49.56	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.12%				
49) 1,2-Dichloroethane-d4	8.664	65	237169	59.82	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 119.64%				
62) Toluene-d8	10.542	98	723651	50.69	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.38%				
86) 4-Bromofluorobenzene	13.328	95	261918	51.98	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.96%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.855	85	88391	26.26	ug/L		98
3) Chloromethane	3.220	50	96803	34.07	ug/L		96
4) Vinyl Chloride	3.373	62	95442	31.62	ug/L		94
5) 1,3-Butadiene	3.403	39	5887	5.07	ug/L		99
6) Bromomethane	3.940	94	45962	29.93	ug/L		97
7) Chloroethane	4.153	64	62367	27.45	ug/L		97
8) Trichlorofluoromethane	4.385	101	136024	26.48	ug/L		99
9) Ethyl Ether	4.866	59	80627	32.31	ug/L		91
10) Ethanol	5.104	45	16863	681.26	ug/L		91
11) 1,2-Dichlorotrifluoroe...	5.153	67	111650	30.28	ug/L		97
12) 1,1-Dichloroethene	5.159	61	129794	31.78	ug/L		86
13) Freon 113	5.220	101	99763	28.52	ug/L		96
14) Carbon Disulfide	5.208	76	255600	27.16	ug/L		91
15) Iodomethane	5.366	142	81757	29.17	ug/L		95
16) Acrolein	5.628	56	87207	160.66	ug/L		99
17) Allyl chloride	5.817	41	110798	40.96	ug/L		94
18) Methylene Chloride	5.958	49	123061	32.86	ug/L		79
19) Acetone	6.019	43	142384	171.00	ug/L		97
20) Methyl acetate	6.171	43	313567	182.23	ug/L		90
21) trans-1,2-Dichloroethene	6.171	61	130419	32.42	ug/L		87
22) Hexane	6.263	56	88338	37.66	ug/L		97
23) Methyl Tert Butyl Ether	6.293	73	275770	29.07	ug/L		90
24) Acetonitrile	6.610	41	93827	377.09	ug/L		95
25) Di-isopropyl ether	6.750	45	281556	36.62	ug/L		93
26) Chloroprene	6.909	53	249632	78.10	ug/L		89
27) 1,1-Dichloroethane	6.939	63	173177	33.08	ug/L		97
28) Acrylonitrile	6.994	53	161877	171.81	ug/L		99
29) ETBE	7.195	59	296898	33.06	ug/L		92
30) Tert Butyl Alcohol	6.397	59	111844	348.22	ug/L		97
31) Vinyl acetate	7.214	43	911793	180.52	ug/L		99
32) cis-1,2-Dichloroethene	7.579	96	100092	27.72	ug/L		84
33) 2,2-Dichloropropane	7.707	77	140215	28.78	ug/L		99
34) Bromochloromethane	7.805	128	49211	25.97	ug/L	#	76
35) Cyclohexane	7.823	56	157763	35.05	ug/L		87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36583.D
Acq On : 13 Jan 2023 11:24 am
Operator : joannel
Sample : IC1647-4
Misc : MS53151,V5E1647,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 13 11:41:37 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	7.872	83	171100	27.95	ug/L		96
37) Ethyl acetate	7.976	43	446855	177.18	ug/L		95
38) Tetrahydrofuran	8.067	42	28056	35.05	ug/L	#	85
40) Carbon Tetrachloride	8.049	117	135364	27.55	ug/L		99
41) 1,1,1-Trichloroethane	8.122	97	151068	27.71	ug/L		93
42) 2-Butanone	8.201	43	221977	178.61	ug/L		88
43) 1,1-Dichloropropene	8.256	75	127976	29.31	ug/L		93
44) tert-Butyl formate	8.354	59	406374	323.17	ug/L		98
45) Propionitrile	8.536	54	150150	361.46	ug/L		98
46) Methacrylonitrile	8.555	41	616179	371.66	ug/L		99
47) Benzene	8.524	78	364370	28.48	ug/L		93
48) TAME	8.604	73	266883	29.16	ug/L		87
50) 1,2-Dichloroethane	8.738	62	137206	31.98	ug/L		95
51) tert Amyl alcohol	8.786	59	87441	326.66	ug/L		94
52) Trichloroethene	9.134	95	99194	26.39	ug/L		94
53) Methylcyclohexane	9.134	83	161756	29.46	ug/L	#	82
54) Dibromomethane	9.579	93	65925	28.02	ug/L		92
55) 1,2-Dichloropropane	9.670	63	97078	32.98	ug/L		93
56) Bromodichloromethane	9.719	83	125767	28.16	ug/L		96
57) Methyl methacrylate	9.835	41	76976	35.44	ug/L	#	86
58) 1,4-Dioxane	9.920	88	18778	568.19	ug/L		85
59) 2-Chloroethyl vinyl ether	10.256	63	213592	153.56	ug/L		91
60) cis-1,3-Dichloropropene	10.353	75	144277	29.45	ug/L		89
63) Toluene	10.597	91	391859	26.96	ug/L		99
64) Isobutyl alcohol	8.677	43	77872	697.07	ug/L		97
65) 2-Nitropropane	10.829	41	133195	186.89	ug/L		97
66) 4-Methyl-2-pentanone	10.938	43	483769	177.61	ug/L		94
67) trans-1,3-Dichloropropene	10.999	75	128638	30.64	ug/L		93
68) Tetrachloroethene	10.999	166	115465	25.90	ug/L		99
69) Ethyl methacrylate	11.103	69	118519	28.70	ug/L		87
70) 1,1,2-Trichloroethane	11.164	83	75822	28.35	ug/L		95
71) Dibromochloromethane	11.359	129	107290	26.32	ug/L		96
72) 1,3-Dichloropropane	11.451	76	153134	29.02	ug/L		89
73) 1,2-Dibromoethane	11.621	107	95279	26.52	ug/L		96
74) 3,3-Dimethyl-1-butanol	11.707	57	462349	1637.76	ug/L		92
75) 2-hexanone	11.761	43	352614	182.74	ug/L		94
76) 1-Chlorohexane	12.054	91	133497	28.33	ug/L		79
77) Ethylbenzene	12.121	91	451661	27.40	ug/L		95
78) Chlorobenzene	12.127	112	261462	25.99	ug/L		88
79) 1,1,1,2-Tetrachloroethane	12.176	131	96552	25.77	ug/L		96
80) m,p-Xylene	12.261	91	704273	55.50	ug/L		98
81) o-Xylene	12.706	91	345112	28.17	ug/L		98
82) Styrene	12.755	104	258655	27.09	ug/L		92
83) Bromoform	12.816	173	74179	26.09	ug/L		97
84) Isopropylbenzene	13.005	105	441667	26.84	ug/L		98
87) cis-1,4-Dichloro-2-butene	13.676	53	28957	36.81	ug/L	#	66
88) n-Propylbenzene	13.426	91	535163	27.55	ug/L		96
89) Bromobenzene	13.456	156	119385	25.60	ug/L		82
90) 1,1,2,2-Tetrachloroethane	13.493	83	124599	27.72	ug/L		97
91) 1,3,5-Trimethylbenzene	13.609	105	384825	27.18	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36583.D
Acq On : 13 Jan 2023 11:24 am
Operator : joannel
Sample : IC1647-4
Misc : MS53151,V5E1647,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 13 11:41:37 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

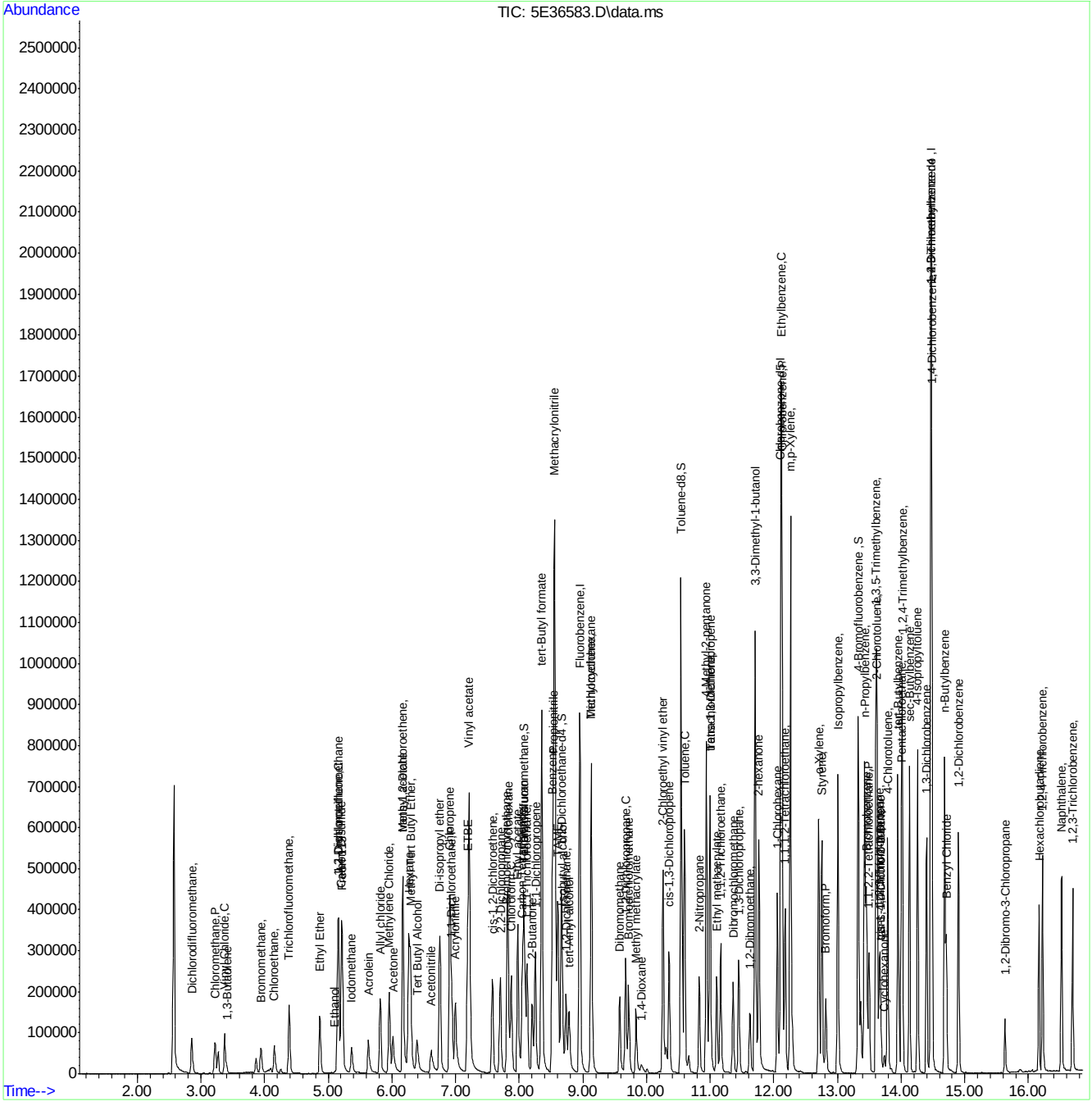
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	13.621	91	344825	27.13	ug/L		94
93)	trans-1,4-Dichloro-2-B...	13.676	53	28957	36.81	ug/L	#	69
94)	1,2,3-Trichloropropane	13.664	110	37910	26.58	ug/L		81
95)	Cyclohexanone	13.737	55	16933	179.53	ug/L		92
96)	4-Chlorotoluene	13.785	91	311314	26.97	ug/L		94
98)	tert-Butylbenzene	13.950	91	209877	27.76	ug/L		91
99)	1,2,4-Trimethylbenzene	14.017	105	378620	27.53	ug/L		97
100)	Pentachloroethane	14.005	167	72606	24.53	ug/L		96
101)	sec-Butylbenzene	14.133	105	461668	27.26	ug/L		97
102)	4-Isopropyltoluene	14.261	119	401346	26.71	ug/L		98
103)	1,3-Dichlorobenzene	14.401	146	214426	25.24	ug/L		96
104)	1,2,3-Trimethylbenzene	14.474	105	373455	27.05	ug/L		96
105)	1,4-Dichlorobenzene	14.480	146	226872	24.48	ug/L		94
106)	n-Butylbenzene	14.682	92	217812	28.10	ug/L		96
107)	Benzyl Chloride	14.712	126	40268	25.20	ug/L	#	70
108)	1,2-Dichlorobenzene	14.901	146	206916	25.02	ug/L		96
109)	1,2-Dibromo-3-Chloropr...	15.633	75	22384	29.45	ug/L		84
110)	Hexachlorobutadiene	16.169	225	64030	30.89	ug/L		93
111)	1,2,4-Trichlorobenzene	16.224	180	143666	28.00	ug/L		99
112)	Naphthalene	16.523	128	331816	26.64	ug/L		98
113)	1,2,3-Trichlorobenzene	16.693	180	123017	28.21	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36583.D
Acq On : 13 Jan 2023 11:24 am
Operator : joannel
Sample : IC1647-4
Misc : MS53151,V5E1647,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 13 11:41:37 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36584.D
Acq On : 13 Jan 2023 11:47 am
Operator : joannel
Sample : ICC1647-5
Misc : MS53151,V5E1647,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 13 12:14:09 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.951	96	724207	50.00	ug/L		0.00
61) Chlorobenzene-d5	12.109	117	542125	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	319959	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	8.079	113	205717	49.74	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.48%				
49) 1,2-Dichloroethane-d4	8.665	65	229920	57.18	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 114.36%				
62) Toluene-d8	10.542	98	742471	51.21	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.42%				
86) 4-Bromofluorobenzene	13.328	95	263086	51.33	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.66%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.855	85	137782	40.28	ug/L		99
3) Chloromethane	3.227	50	158442	54.98	ug/L		99
4) Vinyl Chloride	3.373	62	156881	51.24	ug/L		97
5) 1,3-Butadiene	3.403	39	8232	6.98	ug/L		95
6) Bromomethane	3.940	94	80785	47.57	ug/L		94
7) Chloroethane	4.153	64	111747	42.80	ug/L		95
8) Trichlorofluoromethane	4.385	101	216632	41.27	ug/L		98
9) Ethyl Ether	4.867	59	129370	51.11	ug/L		90
10) Ethanol	5.098	45	19670	783.48	ug/L		97
11) 1,2-Dichlorotrifluoroe...	5.153	67	167929	44.90	ug/L		94
12) 1,1-Dichloroethene	5.159	61	196487	47.43	ug/L		88
13) Freon 113	5.220	101	137335	38.71	ug/L		97
14) Carbon Disulfide	5.208	76	383896	40.21	ug/L		93
15) Iodomethane	5.366	142	129553	42.86	ug/L		93
16) Acrolein	5.629	56	147275	267.51	ug/L		94
17) Allyl chloride	5.818	41	174925	63.75	ug/L		95
18) Methylene Chloride	5.958	49	191529	50.42	ug/L		82
19) Acetone	6.019	43	240485	284.76	ug/L		100
20) Methyl acetate	6.171	43	532249	304.97	ug/L		90
21) trans-1,2-Dichloroethene	6.171	61	196688	48.21	ug/L		86
22) Hexane	6.263	56	120480	50.64	ug/L		96
23) Methyl Tert Butyl Ether	6.293	73	443058	46.05	ug/L		91
24) Acetonitrile	6.616	41	168521	667.76	ug/L		96
25) Di-isopropyl ether	6.750	45	445762	57.17	ug/L		93
26) Chloroprene	6.909	53	387852	116.26	ug/L		89
27) 1,1-Dichloroethane	6.939	63	260181	49.00	ug/L		99
28) Acrylonitrile	6.994	53	272810	285.47	ug/L		97
29) ETBE	7.189	59	476477	52.32	ug/L		91
30) Tert Butyl Alcohol	6.397	59	188466	578.53	ug/L		98
31) Vinyl acetate	7.214	43	1501757	293.14	ug/L		99
32) cis-1,2-Dichloroethene	7.579	96	154558	42.20	ug/L		85
33) 2,2-Dichloropropane	7.701	77	218280	44.17	ug/L		99
34) Bromochloromethane	7.811	128	76781	39.95	ug/L	#	79
35) Cyclohexane	7.823	56	225988	49.49	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36584.D
Acq On : 13 Jan 2023 11:47 am
Operator : joannel
Sample : ICC1647-5
Misc : MS53151,V5E1647,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 13 12:14:09 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	7.872	83	262851	42.33	ug/L		97
37) Ethyl acetate	7.976	43	751875	293.93	ug/L		97
38) Tetrahydrofuran	8.067	42	46360	57.11	ug/L		87
40) Carbon Tetrachloride	8.049	117	201046	40.35	ug/L		99
41) 1,1,1-Trichloroethane	8.122	97	228166	41.27	ug/L		93
42) 2-Butanone	8.201	43	382953	303.80	ug/L		86
43) 1,1-Dichloropropene	8.256	75	191552	43.25	ug/L		96
44) tert-Butyl formate	8.354	59	681576	534.40	ug/L		98
45) Propionitrile	8.530	54	258170	612.76	ug/L		88
46) Methacrylonitrile	8.555	41	1042673	620.06	ug/L		98
47) Benzene	8.524	78	552149	42.55	ug/L		93
48) TAME	8.604	73	435476	46.92	ug/L		89
50) 1,2-Dichloroethane	8.732	62	218388	50.19	ug/L		96
51) tert Amyl alcohol	8.787	59	152787	543.77	ug/L		96
52) Trichloroethene	9.128	95	149959	39.33	ug/L		90
53) Methylcyclohexane	9.134	83	221531	39.77	ug/L		87
54) Dibromomethane	9.579	93	105580	44.25	ug/L		95
55) 1,2-Dichloropropane	9.671	63	151195	50.64	ug/L		95
56) Bromodichloromethane	9.719	83	201360	44.46	ug/L		98
57) Methyl methacrylate	9.835	41	130803	59.37	ug/L	#	86
58) 1,4-Dioxane	9.920	88	33427	969.33	ug/L		96
59) 2-Chloroethyl vinyl ether	10.256	63	359610	254.90	ug/L		93
60) cis-1,3-Dichloropropene	10.353	75	233065	46.91	ug/L		90
63) Toluene	10.597	91	607987	41.19	ug/L		98
64) Isobutyl alcohol	8.671	43	141938	1251.11	ug/L		97
65) 2-Nitropropane	10.829	41	228655	315.92	ug/L		100
66) 4-Methyl-2-pentanone	10.939	43	823130	297.57	ug/L		95
67) trans-1,3-Dichloropropene	10.993	75	209856	49.22	ug/L		91
68) Tetrachloroethene	11.000	166	172365	38.07	ug/L		97
69) Ethyl methacrylate	11.103	69	200001	46.37	ug/L		83
70) 1,1,2-Trichloroethane	11.164	83	121285	44.65	ug/L		95
71) Dibromochloromethane	11.359	129	175560	42.41	ug/L		98
72) 1,3-Dichloropropane	11.451	76	245442	45.80	ug/L		90
73) 1,2-Dibromoethane	11.621	107	155627	42.65	ug/L		98
74) 3,3-Dimethyl-1-butanol	11.707	57	832214	2902.80	ug/L		91
75) 2-hexanone	11.762	43	609772	311.18	ug/L		96
76) 1-Chlorohexane	12.054	91	197719	41.32	ug/L		78
77) Ethylbenzene	12.121	91	692035	41.34	ug/L		95
78) Chlorobenzene	12.127	112	404853	39.62	ug/L		90
79) 1,1,1,2-Tetrachloroethane	12.176	131	153828	40.43	ug/L		98
80) m,p-Xylene	12.261	91	1084435	84.15	ug/L		98
81) o-Xylene	12.700	91	539980	43.39	ug/L		96
82) Styrene	12.755	104	415410	42.83	ug/L		93
83) Bromoform	12.816	173	126248	41.24	ug/L		98
84) Isopropylbenzene	13.005	105	671951	40.21	ug/L		96
87) cis-1,4-Dichloro-2-butene	13.676	53	49295	61.61	ug/L	#	73
88) n-Propylbenzene	13.426	91	803236	40.66	ug/L		96
89) Bromobenzene	13.456	156	187649	39.56	ug/L		87
90) 1,1,2,2-Tetrachloroethane	13.493	83	205120	44.87	ug/L		96
91) 1,3,5-Trimethylbenzene	13.609	105	584539	40.59	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36584.D
Acq On : 13 Jan 2023 11:47 am
Operator : joannel
Sample : ICC1647-5
Misc : MS53151,V5E1647,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 13 12:14:09 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

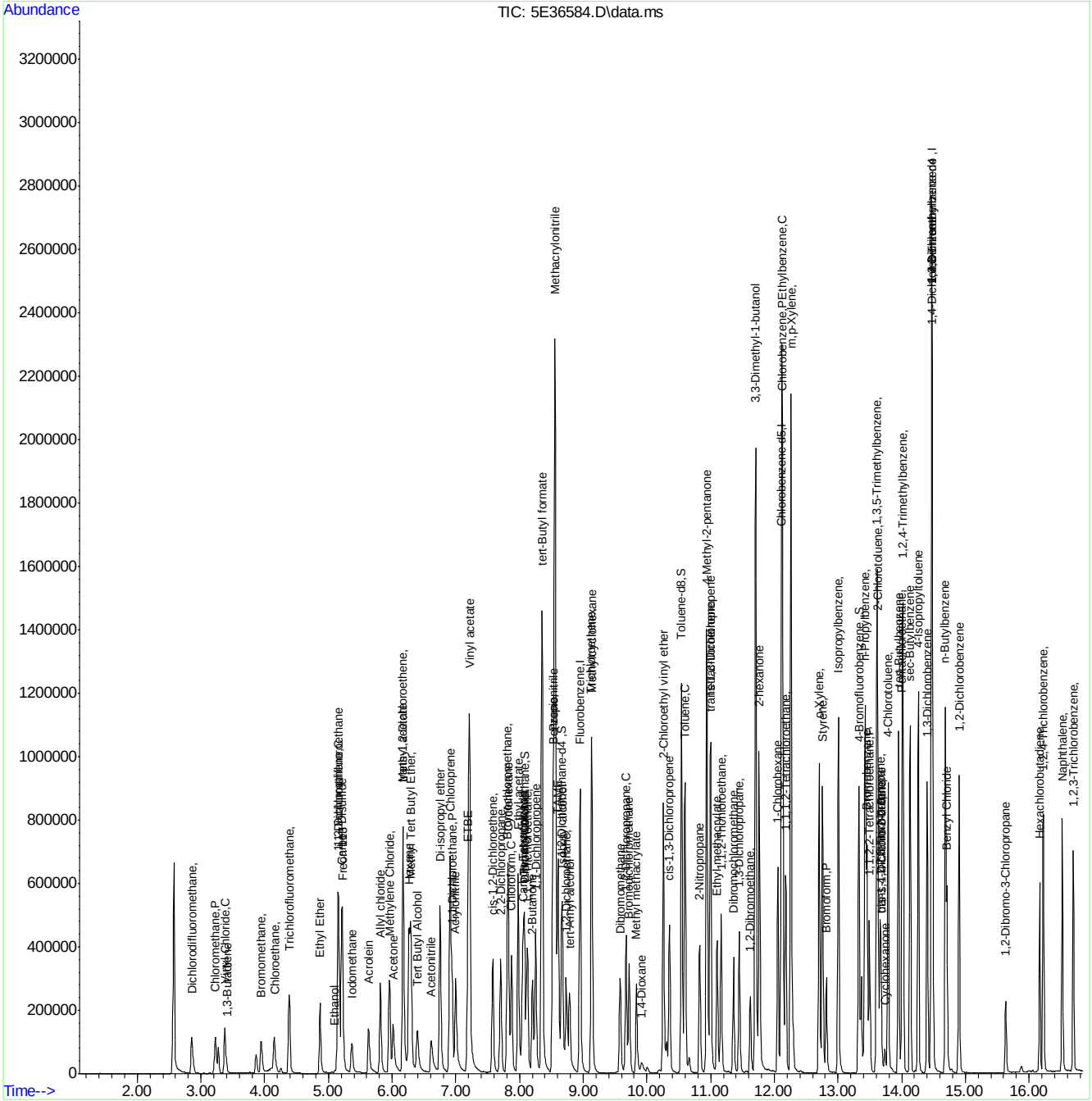
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	13.621	91	527033	40.77	ug/L		94
93)	trans-1,4-Dichloro-2-B...	13.676	53	49295	61.61	ug/L	#	77
94)	1,2,3-Trichloropropane	13.664	110	62782	43.27	ug/L		83
95)	Cyclohexanone	13.737	55	30233	315.15	ug/L		88
96)	4-Chlorotoluene	13.786	91	486326	41.42	ug/L		94
98)	tert-Butylbenzene	13.950	91	313349	40.75	ug/L		91
99)	1,2,4-Trimethylbenzene	14.017	105	574582	41.08	ug/L		98
100)	Pentachloroethane	14.005	167	119590	39.73	ug/L		97
101)	sec-Butylbenzene	14.133	105	671614	38.99	ug/L		97
102)	4-Isopropyltoluene	14.261	119	600752	39.31	ug/L		96
103)	1,3-Dichlorobenzene	14.401	146	336163	38.90	ug/L		96
104)	1,2,3-Trimethylbenzene	14.474	105	572912	40.80	ug/L		97
105)	1,4-Dichlorobenzene	14.481	146	357198	37.90	ug/L		95
106)	n-Butylbenzene	14.682	92	329670	41.82	ug/L		98
107)	Benzyl Chloride	14.712	126	72456	42.13	ug/L	#	80
108)	1,2-Dichlorobenzene	14.901	146	327792	38.98	ug/L		96
109)	1,2-Dibromo-3-Chloropr...	15.633	75	38269	49.51	ug/L		83
110)	Hexachlorobutadiene	16.169	225	92944	44.08	ug/L		96
111)	1,2,4-Trichlorobenzene	16.224	180	223138	42.76	ug/L		100
112)	Naphthalene	16.523	128	554134	43.74	ug/L		100
113)	1,2,3-Trichlorobenzene	16.694	180	192323	43.36	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36584.D
Acq On : 13 Jan 2023 11:47 am
Operator : joannel
Sample : ICC1647-5
Misc : MS53151,V5E1647,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 13 12:14:09 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36585.D
Acq On : 13 Jan 2023 12:11 pm
Operator : joannel
Sample : IC1647-6
Misc : MS53151,V5E1647,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 13 12:29:40 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.951	96	727670	50.00	ug/L		0.00
61) Chlorobenzene-d5	12.109	117	549998	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	331986	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	8.079	113	210094	50.56	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.12%				
49) 1,2-Dichloroethane-d4	8.665	65	234137	57.95	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 115.90%				
62) Toluene-d8	10.542	98	745111	50.65	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.30%				
86) 4-Bromofluorobenzene	13.322	95	270432	50.85	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.855	85	259162	74.99	ug/L		98
3) Chloromethane	3.221	50	296523	102.41	ug/L		99
4) Vinyl Chloride	3.373	62	292331	95.02	ug/L		98
5) 1,3-Butadiene	3.403	39	12757	10.77	ug/L		99
6) Bromomethane	3.946	94	163134	82.21	ug/L		97
7) Chloroethane	4.147	64	288392	83.72	ug/L		96
8) Trichlorofluoromethane	4.379	101	404587	75.39	ug/L		99
9) Ethyl Ether	4.873	59	240669	94.62	ug/L		92
10) Ethanol	5.104	45	53615	2125.40	ug/L		94
11) 1,2-Dichlorotrifluoroe...	5.153	67	325560	86.63	ug/L		95
12) 1,1-Dichloroethene	5.159	61	383732	92.19	ug/L		89
13) Freon 113	5.220	101	270609	75.91	ug/L		98
14) Carbon Disulfide	5.208	76	759672	79.20	ug/L		92
15) Iodomethane	5.366	142	266344	76.53	ug/L		97
16) Acrolein	5.629	56	266262	481.34	ug/L		100
17) Allyl chloride	5.818	41	327937	118.95	ug/L		95
18) Methylene Chloride	5.958	49	353290	92.57	ug/L		82
19) Acetone	6.019	43	423517	499.10	ug/L		97
20) Methyl acetate	6.171	43	970418	553.39	ug/L		91
21) trans-1,2-Dichloroethene	6.171	61	385192	93.96	ug/L		86
22) Hexane	6.263	56	236999	99.15	ug/L		96
23) Methyl Tert Butyl Ether	6.293	73	826316	85.47	ug/L		92
24) Acetonitrile	6.610	41	302116	1191.43	ug/L		95
25) Di-isopropyl ether	6.756	45	830783	106.03	ug/L		94
26) Chloroprene	6.909	53	741117	207.16	ug/L		89
27) 1,1-Dichloroethane	6.939	63	505864	94.82	ug/L		99
28) Acrylonitrile	6.994	53	487521	507.71	ug/L		99
29) ETBE	7.195	59	890760	97.34	ug/L		91
30) Tert Butyl Alcohol	6.397	59	342528	1046.44	ug/L		98
31) Vinyl acetate	7.214	43	2731887	530.72	ug/L		100
32) cis-1,2-Dichloroethene	7.579	96	289960	78.80	ug/L		84
33) 2,2-Dichloropropane	7.701	77	422364	85.06	ug/L		98
34) Bromochloromethane	7.811	128	141911	73.48	ug/L	#	78
35) Cyclohexane	7.823	56	448453	97.75	ug/L		87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36585.D
Acq On : 13 Jan 2023 12:11 pm
Operator : joannel
Sample : IC1647-6
Misc : MS53151,V5E1647,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 13 12:29:40 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	7.872	83	505280	80.98	ug/L		95
37) Ethyl acetate	7.976	43	1321391	514.11	ug/L		96
38) Tetrahydrofuran	8.067	42	83179	101.98	ug/L		86
40) Carbon Tetrachloride	8.049	117	398867	79.67	ug/L		99
41) 1,1,1-Trichloroethane	8.122	97	448566	80.74	ug/L		93
42) 2-Butanone	8.201	43	671957	530.54	ug/L		88
43) 1,1-Dichloropropene	8.256	75	376452	84.59	ug/L		94
44) tert-Butyl formate	8.354	59	1254307	978.78	ug/L		97
45) Propionitrile	8.537	54	449621	1062.08	ug/L		94
46) Methacrylonitrile	8.555	41	1865231	1103.95	ug/L		99
47) Benzene	8.524	78	1068794	81.98	ug/L		94
48) TAME	8.604	73	804227	86.23	ug/L		88
50) 1,2-Dichloroethane	8.732	62	403832	92.36	ug/L		96
51) tert Amyl alcohol	8.787	59	279290	932.87	ug/L		98
52) Trichloroethene	9.134	95	296702	77.45	ug/L		91
53) Methylcyclohexane	9.134	83	452468	80.85	ug/L		87
54) Dibromomethane	9.579	93	194022	80.93	ug/L		98
55) 1,2-Dichloropropane	9.670	63	287797	95.93	ug/L		94
56) Bromodichloromethane	9.719	83	379952	83.49	ug/L		98
57) Methyl methacrylate	9.835	41	239498	108.18	ug/L		87
58) 1,4-Dioxane	9.920	88	57679	1595.06	ug/L		79
59) 2-Chloroethyl vinyl ether	10.256	63	642423	453.20	ug/L		91
60) cis-1,3-Dichloropropene	10.353	75	444502	89.04	ug/L		89
63) Toluene	10.597	91	1171328	78.22	ug/L		98
64) Isobutyl alcohol	8.677	43	259359	2253.38	ug/L		97
65) 2-Nitropropane	10.829	41	421691	574.28	ug/L		97
66) 4-Methyl-2-pentanone	10.939	43	1469542	523.66	ug/L		95
67) trans-1,3-Dichloropropene	10.999	75	396217	91.59	ug/L		93
68) Tetrachloroethene	10.999	166	340572	74.15	ug/L		99
69) Ethyl methacrylate	11.103	69	370198	80.33	ug/L		85
70) 1,1,2-Trichloroethane	11.164	83	221216	80.27	ug/L		95
71) Dibromochloromethane	11.359	129	334239	79.59	ug/L		99
72) 1,3-Dichloropropane	11.451	76	450646	82.89	ug/L		89
73) 1,2-Dibromoethane	11.621	107	289197	78.13	ug/L		99
74) 3,3-Dimethyl-1-butanol	11.707	57	1550075	5329.33	ug/L		91
75) 2-hexanone	11.762	43	1093465	550.03	ug/L		94
76) 1-Chlorohexane	12.054	91	394250	81.21	ug/L		78
77) Ethylbenzene	12.121	91	1349469	79.46	ug/L		95
78) Chlorobenzene	12.127	112	772672	74.54	ug/L		90
79) 1,1,1,2-Tetrachloroethane	12.176	131	293489	76.03	ug/L		99
80) m,p-Xylene	12.261	91	2131863	163.07	ug/L		97
81) o-Xylene	12.700	91	1033032	81.83	ug/L		95
82) Styrene	12.755	104	802418	81.56	ug/L		94
83) Bromoform	12.816	173	243470	70.61	ug/L		99
84) Isopropylbenzene	13.005	105	1335862	78.79	ug/L		97
87) cis-1,4-Dichloro-2-butene	13.676	53	94719	114.10	ug/L	#	79
88) n-Propylbenzene	13.426	91	1621608	79.11	ug/L		96
89) Bromobenzene	13.456	156	356505	72.43	ug/L		84
90) 1,1,2,2-Tetrachloroethane	13.493	83	381463	80.42	ug/L		98
91) 1,3,5-Trimethylbenzene	13.609	105	1166417	78.06	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36585.D
Acq On : 13 Jan 2023 12:11 pm
Operator : joannel
Sample : IC1647-6
Misc : MS53151,V5E1647,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 13 12:29:40 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

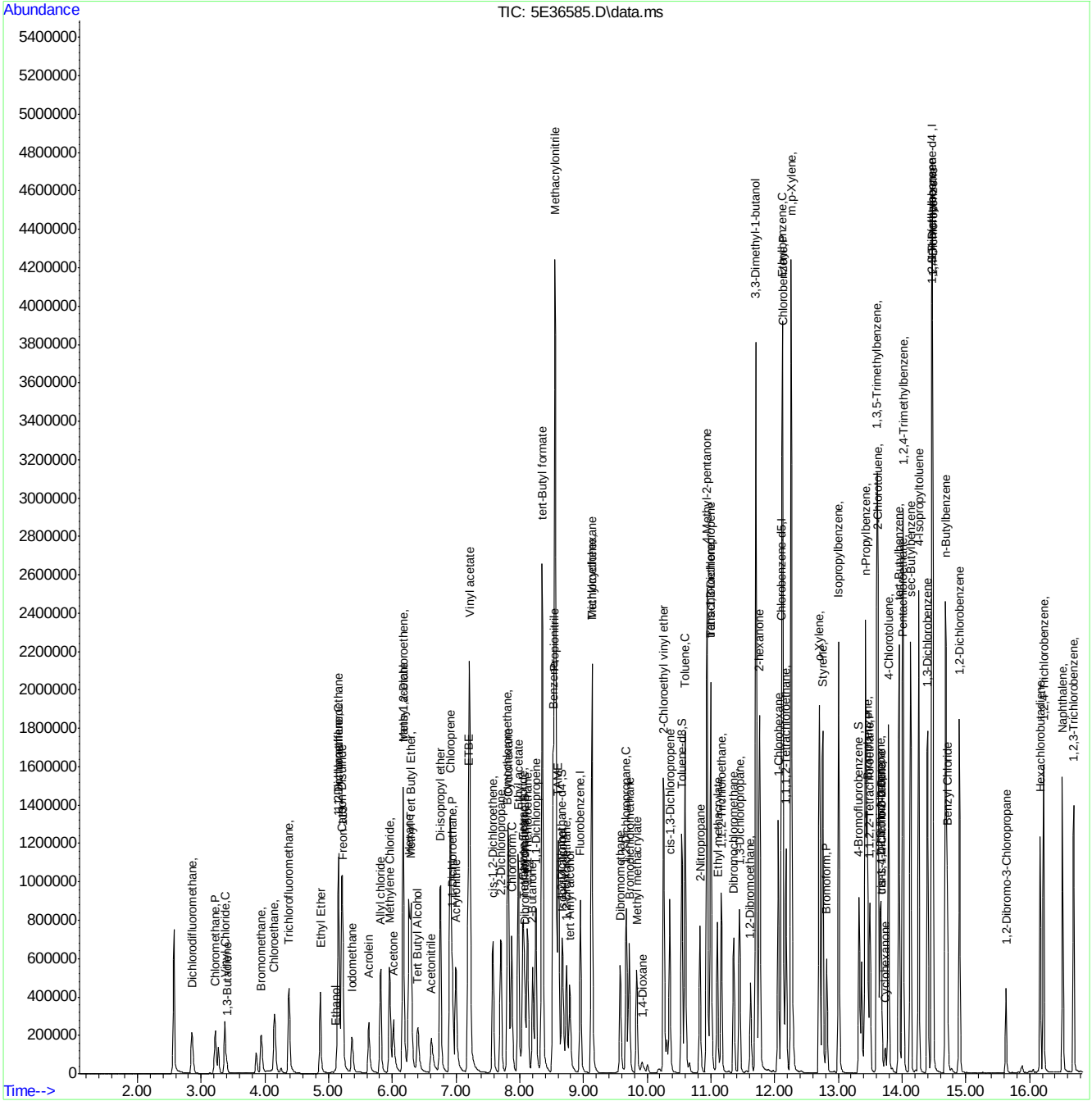
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	13.621	91	1034542	77.13	ug/L		94
93)	trans-1,4-Dichloro-2-B...	13.676	53	94719	114.10	ug/L	#	76
94)	1,2,3-Trichloropropane	13.664	110	115371	76.64	ug/L		81
95)	Cyclohexanone	13.737	55	53412	536.60	ug/L		87
96)	4-Chlorotoluene	13.786	91	947127	77.75	ug/L		94
98)	tert-Butylbenzene	13.950	91	636526	79.77	ug/L		92
99)	1,2,4-Trimethylbenzene	14.017	105	1145747	78.95	ug/L		96
100)	Pentachloroethane	14.005	167	226040	72.37	ug/L		95
101)	sec-Butylbenzene	14.133	105	1382971	77.38	ug/L		97
102)	4-Isopropyltoluene	14.261	119	1244823	78.50	ug/L		96
103)	1,3-Dichlorobenzene	14.401	146	654087	72.95	ug/L		97
104)	1,2,3-Trimethylbenzene	14.474	105	1125279	77.24	ug/L		97
105)	1,4-Dichlorobenzene	14.481	146	684117	69.96	ug/L		96
106)	n-Butylbenzene	14.682	92	683873	83.61	ug/L		97
107)	Benzyl Chloride	14.712	126	142810	72.78	ug/L	#	79
108)	1,2-Dichlorobenzene	14.901	146	630429	72.24	ug/L		95
109)	1,2-Dibromo-3-Chloropr...	15.633	75	72492	90.38	ug/L		86
110)	Hexachlorobutadiene	16.169	225	189973	86.83	ug/L		95
111)	1,2,4-Trichlorobenzene	16.224	180	439926	81.24	ug/L		98
112)	Naphthalene	16.517	128	1041236	79.21	ug/L		99
113)	1,2,3-Trichlorobenzene	16.694	180	379369	82.44	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36585.D
Acq On : 13 Jan 2023 12:11 pm
Operator : joannel
Sample : IC1647-6
Misc : MS53151,V5E1647,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 13 12:29:40 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36586.D
Acq On : 13 Jan 2023 12:34 pm
Operator : joannel
Sample : IC1647-7
Misc : MS53151,V5E1647,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 13 12:51:34 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.951	96	737330	50.00	ug/L		0.00
61) Chlorobenzene-d5	12.109	117	548697	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	335386	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	8.079	113	210726	50.05	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.10%				
49) 1,2-Dichloroethane-d4	8.665	65	239337	58.46	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 116.92%				
62) Toluene-d8	10.542	98	752641	51.29	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.58%				
86) 4-Bromofluorobenzene	13.322	95	276199	51.41	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.82%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.855	85	413915	117.43	ug/L		99
3) Chloromethane	3.221	50	431442	147.06	ug/L		99
4) Vinyl Chloride	3.373	62	437667	140.39	ug/L		97
5) 1,3-Butadiene	3.403	39	19234	16.03	ug/L		97
6) Bromomethane	3.946	94	249173	111.00	ug/L		98
7) Chloroethane	4.153	64	417028	105.84	ug/L		96
8) Trichlorofluoromethane	4.379	101	625926	112.97	ug/L		99
9) Ethyl Ether	4.873	59	353289	137.08	ug/L		92
10) Ethanol	5.110	45	80069	3132.50	ug/L		98
11) 1,2-Dichlorotrifluoroe...	5.153	67	495047	130.01	ug/L		94
12) 1,1-Dichloroethene	5.159	61	567683	134.59	ug/L		89
13) Freon 113	5.214	101	427254	118.28	ug/L		98
14) Carbon Disulfide	5.202	76	1127058	115.96	ug/L		92
15) Iodomethane	5.366	142	371057	97.49	ug/L		98
16) Acrolein	5.629	56	388663	693.40	ug/L		100
17) Allyl chloride	5.818	41	479220	171.54	ug/L		95
18) Methylene Chloride	5.958	49	514265	132.98	ug/L		82
19) Acetone	6.019	43	622185	723.61	ug/L		99
20) Methyl acetate	6.171	43	1403758	790.02	ug/L		90
21) trans-1,2-Dichloroethene	6.171	61	563631	135.68	ug/L		85
22) Hexane	6.263	56	375680	155.11	ug/L		98
23) Methyl Tert Butyl Ether	6.293	73	1197721	122.26	ug/L		92
24) Acetonitrile	6.616	41	450167	1752.03	ug/L		99
25) Di-isopropyl ether	6.756	45	1214618	152.99	ug/L		95
26) Chloroprene	6.909	53	1137115	295.56	ug/L		89
27) 1,1-Dichloroethane	6.939	63	741693	137.20	ug/L		98
28) Acrylonitrile	7.000	53	721953	742.01	ug/L		98
29) ETBE	7.195	59	1311656	141.46	ug/L		91
30) Tert Butyl Alcohol	6.403	59	496890	1498.14	ug/L		97
31) Vinyl acetate	7.214	43	4073557	780.99	ug/L		100
32) cis-1,2-Dichloroethene	7.579	96	425878	114.22	ug/L		83
33) 2,2-Dichloropropane	7.701	77	625018	124.22	ug/L		98
34) Bromochloromethane	7.811	128	202858	103.66	ug/L	#	78
35) Cyclohexane	7.823	56	709069	152.53	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36586.D
Acq On : 13 Jan 2023 12:34 pm
Operator : joannel
Sample : IC1647-7
Misc : MS53151,V5E1647,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 13 12:51:34 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	7.872	83	727781	115.11	ug/L		95
37) Ethyl acetate	7.976	43	1947456	747.77	ug/L		96
38) Tetrahydrofuran	8.067	42	117416	142.06	ug/L		87
40) Carbon Tetrachloride	8.049	117	597246	117.73	ug/L		99
41) 1,1,1-Trichloroethane	8.122	97	658710	117.01	ug/L		94
42) 2-Butanone	8.201	43	989650	771.13	ug/L		86
43) 1,1-Dichloropropene	8.250	75	558482	123.85	ug/L		91
44) tert-Butyl formate	8.354	59	1879392	1447.35	ug/L		97
45) Propionitrile	8.537	54	663414	1546.57	ug/L		85
46) Methacrylonitrile	8.561	41	2753660	1608.41	ug/L		98
47) Benzene	8.524	78	1557024	117.86	ug/L		95
48) TAME	8.604	73	1179617	124.83	ug/L		89
50) 1,2-Dichloroethane	8.738	62	582762	131.54	ug/L		96
51) tert Amyl alcohol	8.787	59	397496	1251.81	ug/L		96
52) Trichloroethene	9.134	95	433070	111.56	ug/L		91
53) Methylcyclohexane	9.134	83	724341	127.73	ug/L		86
54) Dibromomethane	9.579	93	284095	116.94	ug/L		97
55) 1,2-Dichloropropane	9.671	63	420826	138.44	ug/L		95
56) Bromodichloromethane	9.719	83	562296	121.93	ug/L		97
57) Methyl methacrylate	9.835	41	354190	157.89	ug/L		88
58) 1,4-Dioxane	9.920	88	83692	2195.96	ug/L		83
59) 2-Chloroethyl vinyl ether	10.256	63	926884	645.30	ug/L		92
60) cis-1,3-Dichloropropene	10.353	75	651852	128.87	ug/L		90
63) Toluene	10.597	91	1701524	113.89	ug/L		99
64) Isobutyl alcohol	8.677	43	380027	3309.61	ug/L		98
65) 2-Nitropropane	10.829	41	622403	849.63	ug/L		99
66) 4-Methyl-2-pentanone	10.939	43	2141558	764.93	ug/L		96
67) trans-1,3-Dichloropropene	10.993	75	574940	133.23	ug/L		91
68) Tetrachloroethene	10.999	166	499162	108.94	ug/L		98
69) Ethyl methacrylate	11.103	69	543656	112.81	ug/L		85
70) 1,1,2-Trichloroethane	11.164	83	321311	116.87	ug/L		93
71) Dibromochloromethane	11.359	129	487026	116.24	ug/L		99
72) 1,3-Dichloropropane	11.451	76	655016	120.77	ug/L		89
73) 1,2-Dibromoethane	11.621	107	420084	113.76	ug/L		97
74) 3,3-Dimethyl-1-butanol	11.707	57	2287444	7883.13	ug/L		92
75) 2-hexanone	11.762	43	1602460	807.97	ug/L		95
76) 1-Chlorohexane	12.054	91	588243	121.45	ug/L		78
77) Ethylbenzene	12.121	91	1967444	116.13	ug/L		95
78) Chlorobenzene	12.127	112	1115555	107.87	ug/L		88
79) 1,1,1,2-Tetrachloroethane	12.176	131	426277	110.69	ug/L		98
80) m,p-Xylene	12.261	91	3101013	237.76	ug/L		96
81) o-Xylene	12.700	91	1513977	120.21	ug/L		97
82) Styrene	12.755	104	1187694	121.00	ug/L		94
83) Bromoform	12.816	173	361167	96.53	ug/L		98
84) Isopropylbenzene	13.005	105	1961054	115.94	ug/L		97
87) cis-1,4-Dichloro-2-butene	13.676	53	137223	163.62	ug/L	#	77
88) n-Propylbenzene	13.426	91	2375539	114.72	ug/L		96
89) Bromobenzene	13.456	156	523730	105.33	ug/L		86
90) 1,1,2,2-Tetrachloroethane	13.493	83	555320	115.88	ug/L		98
91) 1,3,5-Trimethylbenzene	13.609	105	1706545	113.04	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36586.D
Acq On : 13 Jan 2023 12:34 pm
Operator : joannel
Sample : IC1647-7
Misc : MS53151,V5E1647,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 13 12:51:34 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration

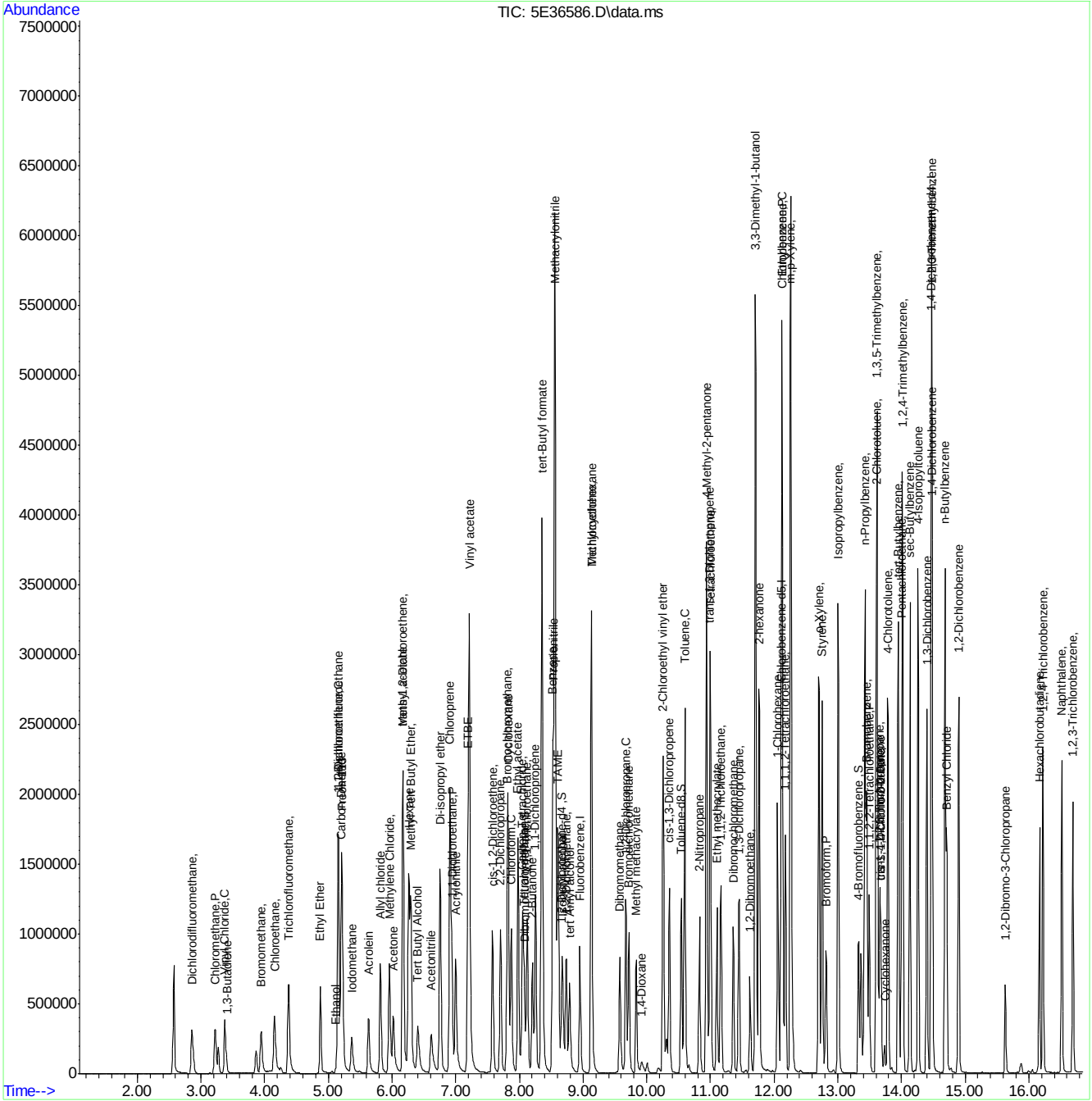
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	13.621	91	1514376	111.76	ug/L		94
93)	trans-1,4-Dichloro-2-B...	13.676	53	137223	163.62	ug/L	#	80
94)	1,2,3-Trichloropropane	13.664	110	166682	109.60	ug/L		80
95)	Cyclohexanone	13.737	55	76156	757.33	ug/L		91
96)	4-Chlorotoluene	13.786	91	1392208	113.13	ug/L		94
98)	tert-Butylbenzene	13.950	91	934941	115.98	ug/L		91
99)	1,2,4-Trimethylbenzene	14.017	105	1668462	113.80	ug/L		98
100)	Pentachloroethane	14.005	167	335591	106.35	ug/L		97
101)	sec-Butylbenzene	14.133	105	2035985	112.76	ug/L		96
102)	4-Isopropyltoluene	14.261	119	1811697	113.09	ug/L		97
103)	1,3-Dichlorobenzene	14.401	146	952507	105.15	ug/L		96
104)	1,2,3-Trimethylbenzene	14.474	105	1647246	111.92	ug/L		98
105)	1,4-Dichlorobenzene	14.487	146	990251	100.23	ug/L		99
106)	n-Butylbenzene	14.682	92	996240	120.56	ug/L		96
107)	Benzyl Chloride	14.712	126	211281	98.94	ug/L	#	83
108)	1,2-Dichlorobenzene	14.901	146	919740	104.33	ug/L		95
109)	1,2-Dibromo-3-Chloropr...	15.633	75	103383	127.59	ug/L		89
110)	Hexachlorobutadiene	16.169	225	278807	126.14	ug/L		93
111)	1,2,4-Trichlorobenzene	16.224	180	628106	114.82	ug/L		99
112)	Naphthalene	16.517	128	1486358	111.93	ug/L		100
113)	1,2,3-Trichlorobenzene	16.694	180	536667	115.44	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36586.D
Acq On : 13 Jan 2023 12:34 pm
Operator : joannel
Sample : IC1647-7
Misc : MS53151,V5E1647,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 13 12:51:34 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 06 08:31:39 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36590.D
Acq On : 13 Jan 2023 2:34 pm
Operator : joannel
Sample : ICV1647-5
Misc : MS53151,V5E1647,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 13 14:51:55 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	740102	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	557088	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	334024	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.073	113	212266	50.80	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.60%			
49) 1,2-Dichloroethane-d4	8.658	65	237061	49.47	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.94%			
62) Toluene-d8	10.542	98	754799	49.65	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.30%			
86) 4-Bromofluorobenzene	13.328	95	272194	48.95	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.849	85	129899	34.09	ug/L	100
3) Chloromethane	3.220	50	153601	37.50	ug/L	98
4) Vinyl Chloride	3.373	62	159286	38.41	ug/L	96
5) 1,3-Butadiene	3.403	39	130614	527.59	ug/L	99
6) Bromomethane	3.940	94	82366	39.89	ug/L	95
7) Chloroethane	4.153	64	109166	36.25	ug/L	97
8) Trichlorofluoromethane	4.385	101	233280	39.56	ug/L	97
9) Ethyl Ether	4.866	59	124065	36.91	ug/L	97
10) Ethanol	5.098	45	24971	789.17	ug/L	85
11) 1,2-Dichlorotrifluoroe...	5.147	67	149552	32.14	ug/L	96
12) 1,1-Dichloroethene	5.159	61	194202	36.52	ug/L	99
13) Freon 113	5.214	101	128086	32.95	ug/L	97
14) Carbon Disulfide	5.202	76	370672	36.13	ug/L	98
15) Iodomethane	5.366	142	121548	37.19	ug/L	94
16) Acrolein	5.628	56	126664	166.13	ug/L	95
17) Allyl chloride	5.811	41	171233	36.88	ug/L	99
18) Methylene Chloride	5.958	49	187657	36.94	ug/L	99
19) Acetone	6.013	43	223984	191.44	ug/L	99
20) Methyl acetate	6.165	43	519531	198.74	ug/L	100
21) trans-1,2-Dichloroethene	6.171	61	196919	36.60	ug/L	98
22) Hexane	6.263	56	116998	33.00	ug/L	97
23) Methyl Tert Butyl Ether	6.287	73	442415	37.68	ug/L	98
24) Acetonitrile	6.610	41	143470	337.12	ug/L	99
25) Di-isopropyl ether	6.750	45	455453	38.25	ug/L	99
26) Chloroprene	6.909	53	191000	19.53	ug/L	98
27) 1,1-Dichloroethane	6.939	63	266745	37.20	ug/L	99
28) Acrylonitrile	6.994	53	244951	177.11	ug/L	99
29) ETBE	7.189	59	474882	37.85	ug/L	99
30) Tert Butyl Alcohol	6.391	59	167209	359.17	ug/L	99
31) Vinyl acetate	7.214	43	1653975	220.62	ug/L	100
32) cis-1,2-Dichloroethene	7.579	96	154133	37.67	ug/L	97
33) 2,2-Dichloropropane	7.701	77	200359	33.94	ug/L	98
34) Bromochloromethane	7.805	128	79320	38.73	ug/L	98
35) Cyclohexane	7.817	56	225281	36.90	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36590.D
Acq On : 13 Jan 2023 2:34 pm
Operator : joannel
Sample : ICV1647-5
Misc : MS53151,V5E1647,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 13 14:51:55 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	7.872	83	263841	36.82	ug/L		97
37) Ethyl acetate	7.976	43	713435	191.15	ug/L		99
38) Tetrahydrofuran	8.067	42	45732	38.65	ug/L		95
40) Carbon Tetrachloride	8.049	117	196455	35.75	ug/L		97
41) 1,1,1-Trichloroethane	8.122	97	224902	35.87	ug/L		98
42) 2-Butanone	8.201	43	355686	200.72	ug/L		96
43) 1,1-Dichloropropene	8.250	75	181332	34.85	ug/L		96
44) tert-Butyl formate	8.354	59	496487	281.41	ug/L		98
45) Propionitrile	8.530	54	224524	358.77	ug/L		93
46) Methacrylonitrile	8.555	41	959620	361.03	ug/L		100
47) Benzene	8.524	78	541754	35.89	ug/L		99
48) TAME	8.604	73	440224	38.93	ug/L		100
50) 1,2-Dichloroethane	8.732	62	218649	37.98	ug/L		98
51) tert Amyl alcohol	8.780	59	135187	370.01	ug/L		97
52) Trichloroethene	9.128	95	150734	36.57	ug/L		98
53) Methylcyclohexane	9.128	83	225072	34.64	ug/L		100
54) Dibromomethane	9.579	93	104150	37.85	ug/L		97
55) 1,2-Dichloropropane	9.670	63	146575	36.19	ug/L		97
56) Bromodichloromethane	9.719	83	209040	39.74	ug/L		99
57) Methyl methacrylate	9.829	41	128478	38.54	ug/L		99
58) 1,4-Dioxane	9.920	88	31288	795.55	ug/L		85
59) 2-Chloroethyl vinyl ether	10.256	63	367430	197.87	ug/L		98
60) cis-1,3-Dichloropropene	10.353	75	232742	38.98	ug/L		100
63) Toluene	10.597	91	589440	35.17	ug/L		100
64) Isobutyl alcohol	8.671	43	117182	679.75	ug/L		98
65) 2-Nitropropane	10.829	41	220164	194.29	ug/L		97
66) 4-Methyl-2-pentanone	10.938	43	798950	202.29	ug/L		99
67) trans-1,3-Dichloropropene	10.993	75	224456	42.85	ug/L		99
68) Tetrachloroethene	10.999	166	171452	35.82	ug/L		96
69) Ethyl methacrylate	11.103	69	181645	35.94	ug/L		96
70) 1,1,2-Trichloroethane	11.164	83	121872	37.97	ug/L		99
71) Dibromochloromethane	11.359	129	175309	38.92	ug/L		98
72) 1,3-Dichloropropane	11.451	76	232759	35.60	ug/L		99
73) 1,2-Dibromoethane	11.621	107	156137	39.06	ug/L		100
74) 3,3-Dimethyl-1-butanol	11.707	57	660843	1606.14	ug/L		100
75) 2-hexanone	11.761	43	561589	187.70	ug/L		98
76) 1-Chlorohexane	12.054	91	197957	37.01	ug/L		97
77) Ethylbenzene	12.121	91	681805	35.54	ug/L		99
78) Chlorobenzene	12.127	112	408700	37.19	ug/L		98
79) 1,1,1,2-Tetrachloroethane	12.176	131	155498	38.26	ug/L		98
80) m,p-Xylene	12.261	91	1078622	73.12	ug/L		99
81) o-Xylene	12.700	91	546932	37.91	ug/L		99
82) Styrene	12.755	104	417030	38.79	ug/L		98
83) Bromoform	12.816	173	126386	40.52	ug/L		97
84) Isopropylbenzene	13.005	105	675674	36.77	ug/L		99
87) cis-1,4-Dichloro-2-butene	13.682	53	47834	38.28	ug/L	#	73
88) n-Propylbenzene	13.426	91	809477	35.69	ug/L		99
89) Bromobenzene	13.456	156	185006	36.19	ug/L		98
90) 1,1,2,2-Tetrachloroethane	13.493	83	201365	37.28	ug/L		99
91) 1,3,5-Trimethylbenzene	13.609	105	573338	35.71	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36590.D
Acq On : 13 Jan 2023 2:34 pm
Operator : joannel
Sample : ICV1647-5
Misc : MS53151,V5E1647,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 13 14:51:55 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

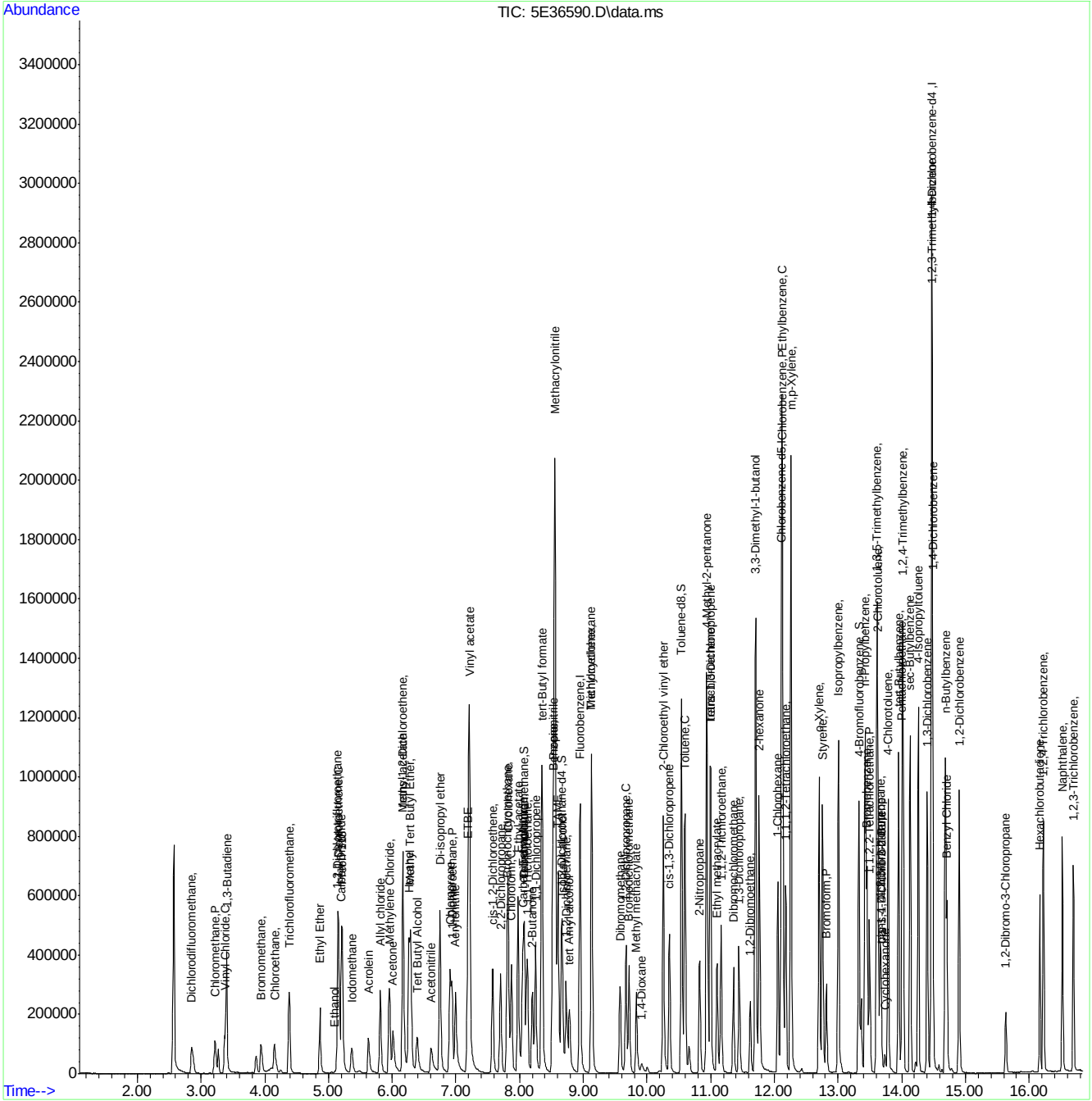
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 2-Chlorotoluene	13.621	91	533011	35.93	ug/L		98
93) trans-1,4-Dichloro-2-B...	13.682	53	47834	38.28	ug/L	#	76
94) 1,2,3-Trichloropropane	13.664	110	57194	34.95	ug/L		97
95) Cyclohexanone	13.737	55	25222	169.02	ug/L		99
96) 4-Chlorotoluene	13.785	91	493246	36.99	ug/L		99
98) tert-Butylbenzene	13.950	91	308701	34.79	ug/L		98
99) 1,2,4-Trimethylbenzene	14.017	105	593525	37.89	ug/L		99
100) Pentachloroethane	14.005	167	123930	39.59	ug/L		99
101) sec-Butylbenzene	14.133	105	694298	36.44	ug/L		99
102) 4-Isopropyltoluene	14.261	119	602063	36.38	ug/L		99
103) 1,3-Dichlorobenzene	14.401	146	354758	38.51	ug/L		99
104) 1,2,3-Trimethylbenzene	14.474	105	630443	39.82	ug/L		99
105) 1,4-Dichlorobenzene	14.486	146	363333	36.77	ug/L		96
106) n-Butylbenzene	14.688	92	307536	34.47	ug/L		95
107) Benzyl Chloride	14.712	126	74589	40.76	ug/L		99
108) 1,2-Dichlorobenzene	14.901	146	335216	37.90	ug/L		99
109) 1,2-Dibromo-3-Chloropr...	15.633	75	33855	35.50	ug/L		97
110) Hexachlorobutadiene	16.169	225	91274	34.22	ug/L		98
111) 1,2,4-Trichlorobenzene	16.224	180	220906	37.25	ug/L		98
112) Naphthalene	16.523	128	527664	36.97	ug/L		99
113) 1,2,3-Trichlorobenzene	16.693	180	192342	37.67	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-13-2023\
Data File : 5E36590.D
Acq On : 13 Jan 2023 2:34 pm
Operator : joannel
Sample : ICV1647-5
Misc : MS53151,V5E1647,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 13 14:51:55 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-23-2023\
Data File : 5E36826.D
Acq On : 23 Jan 2023 9:15 am
Operator : joannel
Sample : CC1647-5
Misc : MS53151,V5E1659,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 23 09:32:08 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	831557	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	649454	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	390414	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.073	113	234899	50.04	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.08%			
49) 1,2-Dichloroethane-d4	8.665	65	287993	53.49	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.98%			
62) Toluene-d8	10.542	98	872446	49.23	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.46%			
86) 4-Bromofluorobenzene	13.322	95	332071	51.09	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.855	85	146165	34.14	ug/L	99
3) Chloromethane	3.221	50	181212	39.31	ug/L	98
4) Vinyl Chloride	3.373	62	188134	40.37	ug/L	99
5) 1,3-Butadiene	3.404	39	18030	64.82	ug/L	99
6) Bromomethane	3.940	94	73776	32.69	ug/L	98
7) Chloroethane	4.153	64	126783	37.21	ug/L	98
8) Trichlorofluoromethane	4.385	101	257469	38.86	ug/L	96
9) Ethyl Ether	4.867	59	145478	38.52	ug/L	96
10) Ethanol	5.098	45	24906	700.55	ug/L	93
11) 1,2-Dichlorotrifluoroe...	5.153	67	203258	38.88	ug/L	96
12) 1,1-Dichloroethene	5.159	61	223198	37.36	ug/L	97
13) Freon 113	5.220	101	152208	34.85	ug/L	96
14) Carbon Disulfide	5.208	76	404807	35.17	ug/L	98
15) Iodomethane	5.367	142	85389	24.18	ug/L	96
16) Acrolein	5.629	56	201535	234.24	ug/L	97
17) Allyl chloride	5.818	41	244605	46.89	ug/L	96
18) Methylene Chloride	5.958	49	242984	42.52	ug/L	92
19) Acetone	6.019	43	303381	230.78	ug/L	93
20) Methyl acetate	6.171	43	648879	220.92	ug/L	98
21) trans-1,2-Dichloroethene	6.171	61	245265	40.57	ug/L	96
22) Hexane	6.263	56	147767	37.09	ug/L	94
23) Methyl Tert Butyl Ether	6.293	73	517840	39.26	ug/L	96
24) Acetonitrile	6.616	41	202901	424.33	ug/L	99
25) Di-isopropyl ether	6.750	45	581799	43.49	ug/L	97
26) Chloroprene	6.909	53	528681	45.69	ug/L	95
27) 1,1-Dichloroethane	6.939	63	329650	40.92	ug/L	98
28) Acrylonitrile	6.994	53	349062	224.63	ug/L	99
29) ETBE	7.189	59	598571	42.47	ug/L	97
30) Tert Butyl Alcohol	6.397	59	218584	417.89	ug/L	98
31) Vinyl acetate	7.214	43	2121510	251.86	ug/L	100
32) cis-1,2-Dichloroethene	7.580	96	180460	39.25	ug/L	92
33) 2,2-Dichloropropane	7.701	77	276407	41.67	ug/L	98
34) Bromochloromethane	7.811	128	87447	38.00	ug/L	91
35) Cyclohexane	7.823	56	281287	40.64	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-23-2023\
Data File : 5E36826.D
Acq On : 23 Jan 2023 9:15 am
Operator : joannel
Sample : CC1647-5
Misc : MS53151,V5E1659,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 23 09:32:08 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	7.872	83	324054	40.25	ug/L		97
37) Ethyl acetate	7.976	43	999176	238.26	ug/L		97
38) Tetrahydrofuran	8.067	42	56641	42.60	ug/L		92
40) Carbon Tetrachloride	8.049	117	243833	39.50	ug/L		98
41) 1,1,1-Trichloroethane	8.122	97	279982	39.74	ug/L		98
42) 2-Butanone	8.201	43	488019	245.11	ug/L		96
43) 1,1-Dichloropropene	8.256	75	237475	40.63	ug/L		91
44) tert-Butyl formate	8.354	59	957150	482.85	ug/L		97
45) Propionitrile	8.531	54	307994	438.02	ug/L		95
46) Methacrylonitrile	8.555	41	1391714	466.01	ug/L		99
47) Benzene	8.524	78	672992	39.68	ug/L		96
48) TAME	8.604	73	530058	41.72	ug/L		95
50) 1,2-Dichloroethane	8.738	62	281432	43.51	ug/L		97
51) tert Amyl alcohol	8.787	59	183579	447.20	ug/L		97
52) Trichloroethene	9.134	95	187158	40.41	ug/L		98
53) Methylcyclohexane	9.134	83	284954	39.03	ug/L		94
54) Dibromomethane	9.579	93	125596	40.63	ug/L		97
55) 1,2-Dichloropropane	9.671	63	194049	42.64	ug/L		96
56) Bromodichloromethane	9.719	83	251451	42.55	ug/L		97
57) Methyl methacrylate	9.835	41	176123	46.60	ug/L		96
58) 1,4-Dioxane	9.921	88	35036	792.87	ug/L		79
59) 2-Chloroethyl vinyl ether	10.256	63	461783	221.34	ug/L		92
60) cis-1,3-Dichloropropene	10.353	75	292764	43.63	ug/L		92
63) Toluene	10.597	91	751966	38.49	ug/L		100
64) Isobutyl alcohol	8.671	43	180056	895.93	ug/L		97
65) 2-Nitropropane	10.829	41	326798	247.38	ug/L		98
66) 4-Methyl-2-pentanone	10.939	43	1085189	235.69	ug/L		98
67) trans-1,3-Dichloropropene	10.993	75	265365	43.45	ug/L		91
68) Tetrachloroethene	11.000	166	209984	37.63	ug/L		96
69) Ethyl methacrylate	11.103	69	245961	41.40	ug/L		91
70) 1,1,2-Trichloroethane	11.164	83	144867	38.72	ug/L		95
71) Dibromochloromethane	11.359	129	208265	39.66	ug/L		97
72) 1,3-Dichloropropane	11.451	76	298267	39.13	ug/L		91
73) 1,2-Dibromoethane	11.621	107	182460	39.15	ug/L		99
74) 3,3-Dimethyl-1-butanol	11.707	57	997672	2079.92	ug/L		97
75) 2-hexanone	11.762	43	810425	229.36	ug/L		95
76) 1-Chlorohexane	12.054	91	254057	40.75	ug/L		90
77) Ethylbenzene	12.121	91	876146	39.17	ug/L		98
78) Chlorobenzene	12.127	112	493324	38.51	ug/L		97
79) 1,1,1,2-Tetrachloroethane	12.176	131	184953	39.03	ug/L		99
80) m,p-Xylene	12.262	91	1382591	80.39	ug/L		97
81) o-Xylene	12.700	91	669257	39.79	ug/L		99
82) Styrene	12.755	104	505255	40.31	ug/L		97
83) Bromoform	12.816	173	147740	40.63	ug/L		96
84) Isopropylbenzene	13.005	105	863151	40.29	ug/L		99
87) cis-1,4-Dichloro-2-butene	13.676	53	64595	44.23	ug/L	#	88
88) n-Propylbenzene	13.426	91	1054487	39.78	ug/L		99
89) Bromobenzene	13.456	156	220624	36.93	ug/L		93
90) 1,1,2,2-Tetrachloroethane	13.493	83	244680	38.76	ug/L		97
91) 1,3,5-Trimethylbenzene	13.609	105	742722	39.57	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-23-2023\
Data File : 5E36826.D
Acq On : 23 Jan 2023 9:15 am
Operator : joannel
Sample : CC1647-5
Misc : MS53151,V5E1659,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 23 09:32:08 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

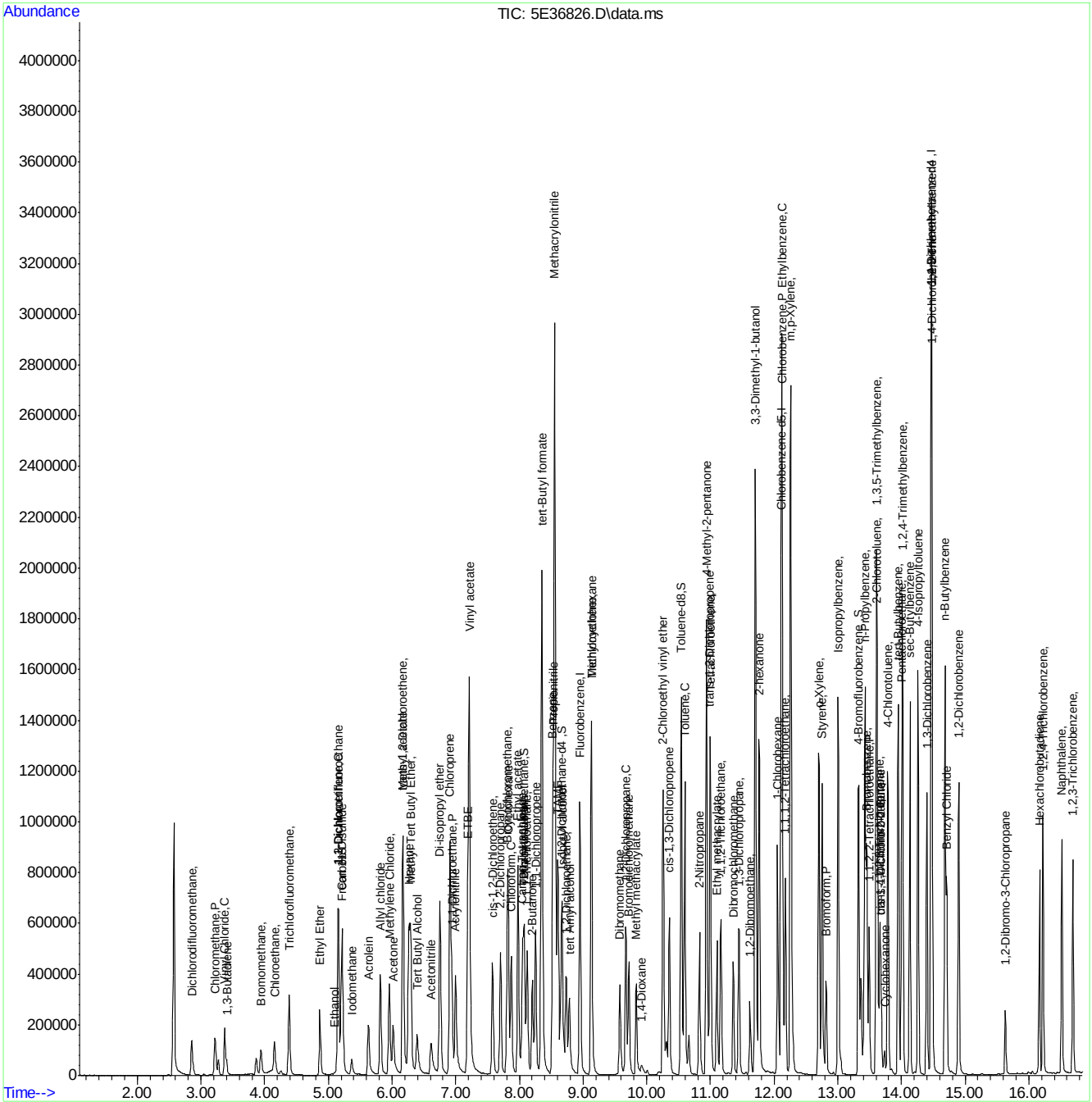
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	13.621	91	672227	38.77	ug/L		98
93)	trans-1,4-Dichloro-2-B...	13.676	53	64595	44.23	ug/L	#	83
94)	1,2,3-Trichloropropane	13.664	110	73114	38.22	ug/L		96
95)	Cyclohexanone	13.737	55	35447	202.62	ug/L		96
96)	4-Chlorotoluene	13.786	91	618897	39.71	ug/L		98
98)	tert-Butylbenzene	13.950	91	420243	40.52	ug/L		97
99)	1,2,4-Trimethylbenzene	14.017	105	731151	39.94	ug/L		99
100)	Pentachloroethane	14.005	167	143930	39.35	ug/L		98
101)	sec-Butylbenzene	14.133	105	891363	40.02	ug/L		99
102)	4-Isopropyltoluene	14.261	119	779730	40.31	ug/L		100
103)	1,3-Dichlorobenzene	14.401	146	401917	37.32	ug/L		98
104)	1,2,3-Trimethylbenzene	14.475	105	721842	39.01	ug/L		98
105)	1,4-Dichlorobenzene	14.481	146	423481	36.66	ug/L		98
106)	n-Butylbenzene	14.682	92	445655	42.74	ug/L		98
107)	Benzyl Chloride	14.712	126	88286	41.23	ug/L	#	84
108)	1,2-Dichlorobenzene	14.901	146	386774	37.41	ug/L		98
109)	1,2-Dibromo-3-Chloropr...	15.633	75	45522	40.83	ug/L		92
110)	Hexachlorobutadiene	16.169	225	123610	39.64	ug/L		99
111)	1,2,4-Trichlorobenzene	16.224	180	264877	38.22	ug/L		99
112)	Naphthalene	16.517	128	608114	36.45	ug/L		100
113)	1,2,3-Trichlorobenzene	16.694	180	225230	37.74	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\01-23-2023\
Data File : 5E36826.D
Acq On : 23 Jan 2023 9:15 am
Operator : joannel
Sample : CC1647-5
Misc : MS53151,V5E1659,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 23 09:32:08 2023
Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\anndg\1-24\V5E1659\
Data File : 5E36853.d
Acq On : 23 Jan 2023 7:42 pm
Operator : joannel
Sample : ECC1647-5 Inst : MSVOA20
Misc : MS53190,V5E1659,,,,,
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Results File: appIX01-13-2023_.RES
Quant Time: Jan 24 02:13:07 2023
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.951	96	783661	50.00	ug/L	0.00
61) Chlorobenzene-d5	12.109	117	625801	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	14.468	152	373831	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	8.079	113	221760	50.13	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.26%			
49) 1,2-Dichloroethane-d4	8.665	65	278066	54.80	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.60%			
62) Toluene-d8	10.542	98	830376	48.62	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.24%			
86) 4-Bromofluorobenzene	13.322	95	322231	51.78	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.855	85	141794	35.15	ug/L	98
3) Chloromethane	3.220	50	176383	40.55	ug/L	99
4) Vinyl Chloride	3.373	62	177676	40.46	ug/L	96
5) 1,3-Butadiene	3.403	39	20278	77.36	ug/L	97
6) Bromomethane	3.946	94	63679	30.22	ug/L	96
7) Chloroethane	4.153	64	120469	37.46	ug/L	97
8) Trichlorofluoromethane	4.385	101	245006	39.23	ug/L	96
9) Ethyl Ether	4.867	59	135534	38.08	ug/L	96
10) Ethanol	5.104	45	35795	1068.37	ug/L	93
11) 1,2-Dichlorotrifluoroe...	5.153	67	191371	38.84	ug/L	95
12) 1,1-Dichloroethene	5.159	61	205832	36.56	ug/L	95
13) Freon 113	5.220	101	138841	33.73	ug/L	97
14) Carbon Disulfide	5.208	76	348469	32.28	ug/L	97
15) Iodomethane	5.366	142	106426	31.30	ug/L	96
16) Acrolein	5.629	56	187386	231.15	ug/L	96
17) Allyl chloride	5.818	41	232050	47.21	ug/L	96
18) Methylene Chloride	5.958	49	237948	44.17	ug/L	93
19) Acetone	6.019	43	276733	223.38	ug/L	95
20) Methyl acetate	6.171	43	621030	224.36	ug/L	96
21) trans-1,2-Dichloroethene	6.171	61	225964	39.66	ug/L	95
22) Hexane	6.263	56	130978	34.89	ug/L	91
23) Methyl Tert Butyl Ether	6.293	73	476623	38.34	ug/L	95
24) Acetonitrile	6.616	41	201448	447.04	ug/L	98
25) Di-isopropyl ether	6.750	45	554289	43.97	ug/L	96
26) Chloroprene	6.909	53	501955	46.00	ug/L	95
27) 1,1-Dichloroethane	6.939	63	312548	41.17	ug/L	97
28) Acrylonitrile	6.994	53	346775	236.79	ug/L	100
29) ETBE	7.189	59	561216	42.25	ug/L	96
30) Tert Butyl Alcohol	6.397	59	204375	414.60	ug/L	96
31) Vinyl acetate	7.214	43	2027919	255.46	ug/L	99
32) cis-1,2-Dichloroethene	7.579	96	169981	39.23	ug/L	93
33) 2,2-Dichloropropane	7.701	77	234007	37.44	ug/L	97
34) Bromochloromethane	7.811	128	82761	38.16	ug/L	90
35) Cyclohexane	7.823	56	267985	41.04	ug/L	93
36) Chloroform	7.872	83	310497	40.92	ug/L	97
37) Ethyl acetate	7.976	43	972678	246.12	ug/L	97
38) Tetrahydrofuran	8.067	42	54369	43.39	ug/L	88
40) Carbon Tetrachloride	8.049	117	222909	38.31	ug/L	97
41) 1,1,1-Trichloroethane	8.122	97	258643	38.95	ug/L	96
42) 2-Butanone	8.201	43	461427	245.92	ug/L	93
43) 1,1-Dichloropropene	8.250	75	218431	39.65	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\anndg\1-24\V5E1659\
Data File : 5E36853.d
Acq On : 23 Jan 2023 7:42 pm
Operator : joannel
Sample : ECC1647-5 Inst : MSVOA20
Misc : MS53190,V5E1659,,,,,
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Results File: appIX01-13-2023_.RES
Quant Time: Jan 24 02:13:07 2023
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	tert-Butyl formate	8.354	59	870591	466.03	ug/L		98
45)	Propionitrile	8.530	54	304760	459.91	ug/L		97
46)	Methacrylonitrile	8.555	41	1380650	490.56	ug/L		98
47)	Benzene	8.524	78	640338	40.06	ug/L		96
48)	TAME	8.604	73	499784	41.74	ug/L		95
50)	1,2-Dichloroethane	8.738	62	266722	43.75	ug/L		98
51)	tert Amyl alcohol	8.786	59	168744	436.19	ug/L		97
52)	Trichloroethene	9.128	95	177754	40.73	ug/L		95
53)	Methylcyclohexane	9.128	83	259882	37.78	ug/L		91
54)	Dibromomethane	9.579	93	116266	39.91	ug/L		97
55)	1,2-Dichloropropane	9.670	63	184073	42.92	ug/L		94
56)	Bromodichloromethane	9.719	83	238878	42.89	ug/L		98
57)	Methyl methacrylate	9.835	41	168639	47.31	ug/L		94
58)	1,4-Dioxane	9.914	88	32281	775.17	ug/L		77
59)	2-Chloroethyl vinyl ether	10.256	63	445590	226.63	ug/L		92
60)	cis-1,3-Dichloropropene	10.353	75	269737	42.66	ug/L		91
63)	Toluene	10.597	91	711828	37.81	ug/L		100
64)	Isobutyl alcohol	8.671	43	174469	900.94	ug/L		98
65)	2-Nitropropane	10.829	41	303046	238.07	ug/L		98
66)	4-Methyl-2-pentanone	10.939	43	1036601	233.65	ug/L		98
67)	trans-1,3-Dichloropropene	10.993	75	244384	41.53	ug/L		93
68)	Tetrachloroethene	10.999	166	197472	36.73	ug/L		97
69)	Ethyl methacrylate	11.097	69	232901	40.73	ug/L		90
70)	1,1,2-Trichloroethane	11.164	83	138688	38.47	ug/L		96
71)	Dibromochloromethane	11.359	129	191560	37.85	ug/L		98
72)	1,3-Dichloropropane	11.451	76	283789	38.64	ug/L		93
73)	1,2-Dibromoethane	11.621	107	172232	38.35	ug/L		99
74)	3,3-Dimethyl-1-butanol	11.707	57	952522	2060.85	ug/L		98
75)	2-hexanone	11.762	43	750101	220.89	ug/L		95
76)	1-Chlorohexane	12.054	91	232105	38.63	ug/L		90
77)	Ethylbenzene	12.121	91	833907	38.70	ug/L		97
78)	Chlorobenzene	12.127	112	467787	37.90	ug/L		95
79)	1,1,1,2-Tetrachloroethane	12.176	131	173870	38.08	ug/L		99
80)	m,p-Xylene	12.261	91	1312161	79.18	ug/L		97
81)	o-Xylene	12.700	91	631510	38.97	ug/L		100
82)	Styrene	12.755	104	485489	40.20	ug/L		98
83)	Bromoform	12.816	173	134506	38.39	ug/L		99
84)	Isopropylbenzene	13.005	105	797026	38.61	ug/L		98
87)	cis-1,4-Dichloro-2-butene	13.676	53	58136	41.57	ug/L	#	83
88)	n-Propylbenzene	13.426	91	975045	38.41	ug/L		98
89)	Bromobenzene	13.450	156	207854	36.33	ug/L	#	83
90)	1,1,2,2-Tetrachloroethane	13.493	83	228990	37.88	ug/L		99
91)	1,3,5-Trimethylbenzene	13.603	105	687790	38.27	ug/L		96
92)	2-Chlorotoluene	13.621	91	640044	38.55	ug/L		97
93)	trans-1,4-Dichloro-2-B...	13.676	53	58136	41.57	ug/L	#	77
94)	1,2,3-Trichloropropane	13.657	110	69235	37.80	ug/L		92
95)	Cyclohexanone	13.737	55	34929	208.41	ug/L		95
96)	4-Chlorotoluene	13.786	91	582424	39.03	ug/L		98
98)	tert-Butylbenzene	13.950	91	382327	38.50	ug/L		96
99)	1,2,4-Trimethylbenzene	14.017	105	679177	38.74	ug/L		98
100)	Pentachloroethane	14.005	167	129507	37.07	ug/L		97
101)	sec-Butylbenzene	14.133	105	792606	37.17	ug/L		98
102)	4-Isopropyltoluene	14.261	119	691401	37.33	ug/L		99
103)	1,3-Dichlorobenzene	14.395	146	373186	36.19	ug/L		96
104)	1,2,3-Trimethylbenzene	14.474	105	680541	38.41	ug/L		100
105)	1,4-Dichlorobenzene	14.480	146	396702	35.87	ug/L		99
106)	n-Butylbenzene	14.682	92	382598	38.32	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\anndg\1-24\V5E1659\
Data File : 5E36853.d
Acq On : 23 Jan 2023 7:42 pm
Operator : joannel
Sample : ECC1647-5 Inst : MSVOA20
Misc : MS53190,V5E1659,,,,,
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Results File: appIX01-13-2023_.RES
Quant Time: Jan 24 02:13:07 2023
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration

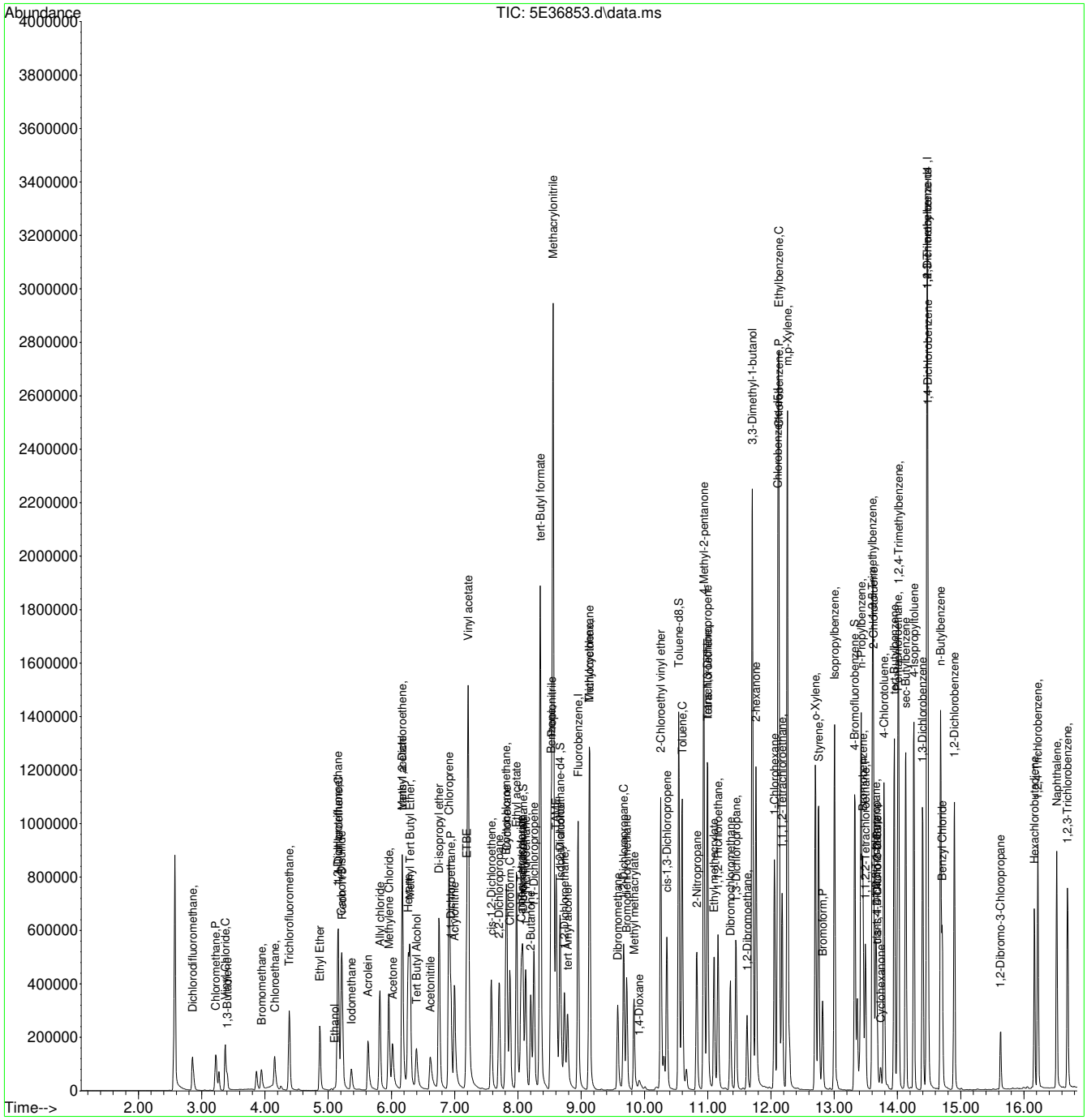
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
107) Benzyl Chloride	14.706	126	69849	34.72	ug/L	#	74
108) 1,2-Dichlorobenzene	14.901	146	359004	36.26	ug/L		98
109) 1,2-Dibromo-3-Chloropr...	15.627	75	43339	40.60	ug/L		81
110) Hexachlorobutadiene	16.163	225	100185	33.56	ug/L		97
111) 1,2,4-Trichlorobenzene	16.218	180	235852	35.54	ug/L		99
112) Naphthalene	16.517	128	563649	35.28	ug/L		99
113) 1,2,3-Trichlorobenzene	16.687	180	199989	35.00	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\anndg\1-24\V5E1659\
Data File : 5E36853.d
Acq On : 23 Jan 2023 7:42 pm
Operator : joannel
Sample : ECC1647-5 Inst : MSVOA20
Misc : MS53190,V5E1659,,,,,
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\appIX01-13-2023_.M
Quant Results File: appIX01-13-2023_.RES
Quant Time: Jan 24 02:13:07 2023
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jan 13 14:00:16 2023
Response via : Initial Calibration



SGS -ORLANDO **MSVOA13-1P ANALYSIS LOG**

Date:	12/29/2022
Column Type:	RTXVMS
Detector:	5973MSD
Instrument:	MSVOA13-1P
Purge Pressure:	1.4 PSI
Purge Volume:	5 mL
Analyst:	JoAnn L

Method(s):*	8260
Method File:	V1P_2022-12-29.M
Calibration Date:	12/29/2022
Acq. Method:	RTXFAST
EM Voltage:	1529V
BFB Response:	2707393
Run ID:	**V1P3655**

BFB:	VS2777
ICAL/CC:	VS2722, VS2687, VS2724
VS2730, VS2727, VS2774	
ICV/QC:	VS2723, VS2691, VS2725
VS2731, VS2728, VS2775, VS2726	
ISTD/Surr.:	VS2777

(0-3) pH Paper Lot#:	405
(1-12) pH Paper Lot#:	160
KI Paper Lot#:	14-860
AFA Lot#:	VS2664D
Data processed by:	JoAnn L/ABL
Sample ID Ver. by:	JoAnn L
Date Verified:	12/29/2022

x

x **Data File**	**Sample ID**	**Dilution Factor**	**Vial #**	**Matrix**	**A.S. Pos.**	**Work Group**	**pH**	**CI?** (Y/N)	**RR**	**Comments / Manual Integrations (Peak# & Justification)**
1P96676	BLANK	-	-	Water	1	-	-	-	-	Passed autofind ✓
1P96678	BFB	-	-	Water	2	-	-	-	-	Passed autofind✓
1P96680	IC3655-1	-	-	Water	3	-	-	-	-	1uL(-)100mL ✓
1P96682	IC3655-2	-	-	Water	4	-	-	-	-	5uL(-)100mL ✓
1P96684	IC3655-3	-	-	Water	5	-	-	-	-	10uL(-)100mL ✓
1P96686	IC3655-4	-	-	Water	6	-	-	-	-	25uL(-)100mL ✓
1P96688	BLANK	-	-	Water	7	-	-	-	-	
1P96690	ICC3655-5	-	-	Water	8	-	-	-	-	40uL(-)100mL ✓
1P96692	IC3655-6	-	-	Water	9	-	-	-	-	70uL(-)100mL ✓
1P96694	IC3655-7	-	-	Water	10	-	-	-	-	100uL(-)100mL ✓
1P96696	BLANK	-	-	Water	11	-	-	-	-	✓
1P96698	ICV3655-5	-	-	Water	12	-	-	-	-	50uL (-) 100mL ✓
1P96700	ICV3655-4	-	-	Water	13	-	-	-	-	12.5uL (-) 40mL; DCFM/MB/CE/TCFM/12DCTFM/CIS14 ONLY ✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.

SGS -ORLANDO

MSVOA13-1P ANALYSIS LOG

Date:	01/19/2023
Column Type:	RTXVMS
Detector:	5973MSD
Instrument:	MSVOA13-1P
Purge Pressure:	1.4 PSI
Purge Volume:	5 mL
Analyst:	JoAnn L

Method(s):*	8260
Method File:	V1P_2022-12-29.M
Calibration Date:	12/29/2022
Acq. Method:	RTXFAST
EM Voltage:	1482V
BFB Response:	
Run ID:	V1P3666-67

BFB:	VS2777
ICAL/CC:	VS2722, VS2807, VS2724
	VS2730, VS2727, VS2811
ICV/QC:	VS2778, VS2779, VS2780
	VS2783, VS2784, VS2812, VS2781
ISTD/Surr.:	VS2777

(0-3) pH Paper Lot#:	405
(1-12) pH Paper Lot#:	160
KI Paper Lot#:	14-860
AFA Lot#:	VS2664D
Data processed by:	JoAnn L / Celine C.
Sample ID Ver. by:	JL
Date Verified:	01/19/2023

x

x Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments / Manual Integrations (Peak# & Justification)
1P97237	BLANK	-	-	Water	1	-	-	-	-	
1P97239	CC3655-5/BFB	-	-	Water	2	-	-	-	-	Passed autofind; 40uL(-)100mL✓ #25,40 OP, #50,76 (PII)
1P97241	BS	-	-	Water	3	-	-	-	-	12.5uL(-)50mL✓ #25,40 OP, #50,76 (PII)
1P97243	BLANK	-	-	Water	4	-	-	-	-	1uL(-)100mL✓ #25,40 OP, #50,76 (PII)
1P97245	MB(AFA)	-	-	Water	5	-	-	-	-	ND ✓
1P97247	OP94957-LB 10X	10	-	TCLP	6	MS53192	6	N	-	5mL(-)50mL
1P97249	FC1785-2L 10X	10	-	TCLP	7	MS53192	6	N	-	QC;5mL(-)50mL
1P97251	FC1987-1		1	Water	8	MS53194	6	N	1x	QC; Chloroform (CCV) hit
1P97253	BLANK	-	-	Water	9	MS53194	-	-	-	-
1P97255	FC1886-1		1	Water	10	MS53194	1	N	-	ND ✓
1P97257	FC1987-7		1	Water	11	MS53194	6	N	-	No lot# on vial
1P97259	FC1987-8		1	Water	12	MS53194	6	N	-	No lot# on vial
1P97261	FC1987-3		1	Water	13	MS53194	6	N	1x	Benzene (CCV) hit
1P97263	FC1987-4		1	Water	14	MS53194	6	N	-	✓
1P97265	FC1987-5		1	Water	15	MS53194	6	N	-	✓
1P97267	FC1987-6		1	Water	16	MS53194	6	N	-	✓
1P97269	FC1886-2 25X	25	2	Water	17	MS53194	1	N	10x	2mL(-)50mL; TCE low
1P97271	FC1987-2 5X	5	1	Water	18	MS53194	6	N	5x	10mL(-)50mL #53(MP); Benzene (CCV) hit
1P97273	FC1752-2 10X	10	-	TCLP	19	MS53192	6	N	-	5mL(-)50mL #53(MP); ND ✓
1P97275	FC1752-3 10X	10	-	TCLP	20	MS53192	6	N	10x	AFA; 5mL(-)50mL #53(MP); SS4 high w/ hits
1P97277	FC1752-4 10X	10	-	TCLP	21	MS53192	6	N	-	AFA; 5mL(-)50mL; ND ✓
1P97279	FC1785-2LMS 10	10	-	TCLP	22	MS53192	-	-	-	V1P-3667; 10mL(-)100mL; 25uL(-)100mLP #25,40 OP, #50,76 (PII)
1P97281	FC1785-2LMSD 1	10	-	TCLP	23	MS53192	-	-	-	V1P-3667; 10mL(-)100mL; 25uL(-)100mLP #25,40 OP, #50,76 (PII)
1P97283	FC1987-1MS 5X	5	-	Water	24	MS53194	-	-	-	V1P-3666; 20mL(-)100mL; 25uL(-)100mL✓ #25,40 OP, #50,76 (PII)
1P97284	FC1987-1MSD 5X	5	-	Water	25	MS53194	-	-	-	V1P-3666; 20mL(-)100mL; 25uL(-)100mL✓ #25,40 OP, #50,76 (PII)
1P97285	ECC3655-5	-	-	Water	26	-	-	-	-	40uL(-)100mL✓ #40 OP, #50,76 (PII)

1/20/23

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.

SGS -ORLANDO

MSVOA20-5E ANALYSIS LOG

DATE:	1/13/2023
COLUMN TYPE:	RTXVMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSVOA20-5E
PURGE PRESSURE:	11 PSI
PURGE VOLUME:	5 mL
ANALYST:	JoAnn L

METHODS:*	8260
METHOD FILE:	appIX01-13-2023.M
CALIB. DATE:	1/13/2023
EM VOLTAGE:	1459V
ACQ. METHOD:	8260VMSVI
BFB RESPONSE:	1353983
Run ID:	V5E1647-48

BFB:	VS2803
ICAL/CC:	VS2722, VS2807, VS2808
	VS2816, VS2800, VS2815
ISTD/SUR:	VS2803
ICV/QC:	VS2778, VS2779, VS2780
	VS2783, VS2784, VS2781, VS2824
AFA:	VS2664E

pH LOT:	230320, 230418
KI PAPER LOT:	07062021
Data Processed By:	
JoAnn L / Celine C.	
Sample ID Verified By:	
JL	
Date verfied:	01/13/2023

Data File	Sample ID	Dil.	Vial #	Matrix	ALS Pos.	Sample Method	Manually Integrated Peaks Rationale, Peak#	pH	CI ?	RR	Comments
5E36579	BFB	-	-	W	1	8260		-	-	-	Passed autofind ✓
5E36580	IC1647-1	-	-	W	2	8260		-	-	-	Passed autofind; 1uL→ 100mL ✓
5E36581	IC1647-2	-	-	W	3	8260		-	-	-	5uL→ 100mL ✓
5E36582	IC1647-3	-	-	W	4	8260		-	-	-	5uL→ 50mL ✓
5E36583	IC1647-4	-	-	W	5	8260		-	-	-	12.5uL→ 50mL ✓
5E36584	ICC1647-5	-	-	W	6	8260		-	-	-	20uL→ 50mL ✓
5E36585	IC1647-6	-	-	W	7	8260		-	-	-	35uL→ 50mL ✓
5E36586	IC1647-7	-	-	W	8	8260		-	-	-	50uL→ 50mL ✓
5E36587	BLANK	-	-	W	9	8260		-	-	-	✓
5E36588	ICV1647-5	-	-	W	10	8260	Made new gases QC(VS2812)-not used	-	-	-	20uL→ 50mL
5E36589	ICV1647-4	-	-	W	11	8260	Made new gases QC(VS2812)-not used	-	-	-	12.5uL→ 50mL
5E36590/A	ICV1647-5/CC1647-5	-	-	W	12	8260	New gas QC VS2824	-	-	-	20uL→ 50mL ✓
5E36591	CC1647-1	-	-	W	13	8260		-	-	-	1uL→ 100mL ✓
5E36592	BS	-	-	W	14	8260		-	-	-	12.5uL→ 50mL ✓
5E36593	BLANK	-	-	W	15	8260		-	-	-	-
5E36594	MB	-	-	W	16	SPLP		-	-	-	ND ✓
5E36595	OP94900-LB		-	W	17	SPLP		-	-	-	CB, THF hit
5E36596	FC1510-3R		-	W	18	SPLP	Headspace #101(MP)	6	N		✓
5E36597	FC1510-1R 10X	10	-	W	19	8260	Headspace; 5mL(-)50mL	6	N		E-Combine✓
5E36598	BLANK	-	-	W	20	8260		-	-	-	-
5E36599	FC1814-3		2	W	21	8260	Lot#427758	1	N	-	TBA hit✓
5E36600	FC1814-1		1	W	22	8260	Bubble>6mm, all vials received	1	N	-	✓
Data File DNE	FC1814-2		2	W	23	8260	Bubble>6mm	1	N	1x	NEVER PURGED - NEVER RAN; skipped on autosampler
5E36601	FC1853-1		3	W	24	8260		1	N	-	✓
5E36602	FC1853-2		2	W	25	8260		1	N	-	ND ✓
5E36603	FC1788-7		5	W	26	8260		1	N	-	✓
5E36604	FC1857-1 5X	5	4	W	27	8260	10mL(-)50mL	1	N	-	✓
5E36605	FC1857-2 5X	5	5	W	28	8260	10mL(-)50mL	1	N	-	✓
5E36606	FC1857-2MS 5X	5	5	W	29	8260	20mL(-)100mL	1	N	-	12.5uL→ 50mL ✓
5E36607	FC1857-2MSD 5X	5	5	W	30	8260	20mL(-)100mL	1	N	-	12.5uL→ 50mL ✓
5E36608	ECC1647-5	-	-	W	31	8260		-	-	-	20uL→ 50mL ✓

* For NELAC purposes, Method 8260 includes anlytes by SOP MS005 Matrix: Designaate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueus Liquid, and "TCLP" or "SPLP" for Leachate.

Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

Analyst's Signature: _____

SGS -ORLANDO

MSVOA20-5E-ANALYSIS LOG

DATE:	1/23/2023
COLUMN TYPE:	RTXVMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSVOA20-5E
PURGE PRESSURE:	11 PSI
PURGE VOLUME:	5 mL
ANALYST:	JoAnn L

METHODS:*	8260
METHOD FILE:	applX01-13-2023.M
CALIB. DATE:	1/13/2023
EM VOLTAGE:	1459V
ACQ. METHOD:	8260VMSVI
BFB RESPONSE:	
Run ID:	V5E1659

BFB: VS2803
ICAL/CC: VS2829 VS2807, VS2808
VS2816, VS2800, VS2815
ISTD/SUR: VS2803
ICV/QC: VS2778, VS2779, VS2780
VS2783, VS2784, VS2781, VS2824
AFA: VS2737A

pH LOT: 230320, 230418
KI PAPER LOT: 07062021
Data Processed By:
JoAnn L/Ann
Sample ID Verified By:
JL
Date verfied: 01/23/2023

Data File	Sample ID	Dil.	Vial #	Matrix	ALS Pos.	Sample Method	Manually Integrated Peaks Rationale, Peak#	pH	CI ?	RR	Comments
5E36825	BLANK	-	-	W	1	8260		-	-	-	Passed autofind ✓
5E36826	CC1647-5/BFB	-	-	W	2	8260	already in Lims	-	-	-	Passed autofind; 20uL→ 50mL ✓
5E36827	BS	-	-	W	3	8260	already in Lims	-	-	-	12.5uL→ 50mL✓
5E36828	CC1647-1	-	-	W	4	8260		-	-	-	1uL→ 100mL ✓
5E36829	BLANK	-	-	W	5	8260		-	-	-	12.5uL→ 50mL✓
5E36830	MB(AFA)	-	-	W	6	8260		-	-	-	AFA; ND ✓
5E36831	FC1990-4			W	7	8260		1	N	-	No c/o detected not used
5E36832	FC1987-1			W	8	8260	2619; Bubble>6mm, all vials received	1	N	-	✓
5E36833	FC1987-3			W	9	8260	AFA	6	N	-	✓
5E36834	FC1879-6			W	10	8260	AFA	1	N	-	✓
5E36835	FC1933-3 100X	100		W	11	8260	AFA	1	N	-	Ecombine✓
5E36836	FC2019-8 5X	5		W	12	8260	Bubble>6mm, all vials received; AFA	1	N	-	Ecombine✓
5E36837	FC1990-3 5X	5		W	13	8260		1	N	-	✓
5E36838	FC1886-2 10X	10		W	14	8260		1	N	-	✓
5E36839	FC1987-2 5X	5		W	15	8260		6	N	-	✓
5E36840	FC1879-1 10X			W	16	8260		1	N	-	✓
5E36841	FC1879-2 50X			W	17	8260		1	N	-	✓
5E36842	FC1879-3 2.5X			W	18	8260		1	N	-	✓
5E36843	FC1879-4 20X			W	19	8260		1	N	-	✓
5E36844	FC1879-5 50X			W	20	8260		1	N	-	✓
5E36845	FC1879-7 20X			W	21	8260	AFA; Bubble>6mm, all vials received; 10mL(-)50mL	1	N	-	✓
5E36846	FC1879-8 10X			W	22	8260	AFA; Bubble>6mm, all vials received; 10mL(-)50mL	1	N	10x	Vials don't match
5E36847	FC1879-9 50X			W	23	8260	10mL(-)50mL	1	N	-	✓
5E36848	FC1879-10 20X			W	24	8260	5mL(-)50mL	1	N	-	✓
5E36849	FC1879-11 20X			W	25	8260	AFA; 10mL(-)50mL	1	N	-	✓
5E36850	FC1879-12 5X			W	26	8260	10mL(-)50mL	1	N	-	✓
5E36851	FC1990-4MS 5X			W	27	8260	AFA	1	N	-	10.5uL→ 40mL ✓
5E36852	FC1990-4MSD 5X			W	28	8260	AFA	1	N	-	10.5uL→ 40mL ✓
5E36853	ECC1647-5	-	-	W	29	8260		-	-	-	20uL→ 50mL ✓

* For NELAC purposes, Method 8260 includes anlytes by SOP MS005 Matrix: Designaate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate.

Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

Analyst's Signature: _____

sample_id	cas	parameter	fraction	final_result	result_error	final_qualifier	reason_code	units	validation_level	sdg	laboratory_id	laboratory_name	laboratory_cas	laboratory_parameter	laboratory_result	laboratory_method	laboratory_unit	laboratory_qualifier	lab_received_date	mdl	crdl_crql	ldl	preparation_method	preparation_date	analysis_method	analysis_date	leachate_method	leachate_date	batch_no	run_number	dilution_factor	pct_moisture	basis	result_type	result_note	result_fld1	result_fld2
041023BLK1	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	041023BLK1	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	19000101	-99	1	N/A	SW5030B	19000101	8260D	19000101				1	1	100	W	TRG			
041023BLK1	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	041023BLK1	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	19000101	-99	1	N/A	SW5030B	19000101	8260D	19000101				1	1	100	W	TRG			
041023BLK1	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	041023BLK1	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	19000101	-99	1	N/A	SW5030B	19000101	8260D	19000101				1	1	100	W	TRG			
041023BLK1	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	041023BLK1	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	19000101	-99	1	N/A	SW5030B	19000101	8260D	19000101				1	1	100	W	TRG			
041023BLK1	SURR004	TOLUENE-D8 (SURR)	MBLV	108.0				%	C	HGL041023	041023BLK1	ALF	2037-26-5	d8-TOLUENE	108.0	8260D	%		19000101	-99	1	N/A	SW5030B	19000101	8260D	19000101				1	1	100	W	SUR			
041023CCV1	75-01-4	VINYL CHLORIDE	MBLV	117.0				%	C	HGL041023	041023CCV1	ALF	75-01-4	VINYL CHLORIDE	117.0	8260D	%		19000101	-99	1	N/A	SW5030B	19000101	8260D	19000101				1	1	100	W	TRG			
041023CCV1	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	107.7				%	C	HGL041023	041023CCV1	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	107.7	8260D	%		19000101	-99	1	N/A	SW5030B	19000101	8260D	19000101				1	1	100	W	TRG			
041023CCV1	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	110.4				%	C	HGL041023	041023CCV1	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	110.4	8260D	%		19000101	-99	1	N/A	SW5030B	19000101	8260D	19000101				1	1	100	W	TRG			
041023CCV1	79-01-6	TRICHLOROETHENE	MBLV	103.4				%	C	HGL041023	041023CCV1	ALF	79-01-6	TRICHLOROETHENE	103.4	8260D	%		19000101	-99	1	N/A	SW5030B	19000101	8260D	19000101				1	1	100	W	TRG			
041023CCV1	SURR004	TOLUENE-D8 (SURR)	MBLV	108.8				%	C	HGL041023	041023CCV1	ALF	2037-26-5	d8-TOLUENE	108.8	8260D	%		19000101	-99	1	N/A	SW5030B	19000101	8260D	19000101				1	1	100	W	SUR			
PSBA-DPT0337-015.0-20230410	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	HGL041023-W001	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	TRG			
PSBA-DPT0337-015.0-20230410	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL041023-W001	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	TRG			
PSBA-DPT0337-015.0-20230410	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL041023-W001	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	TRG			
PSBA-DPT0337-015.0-20230410	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL041023-W001	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	TRG			
PSBA-DPT0337-015.0-20230410	SURR004	TOLUENE-D8 (SURR)	MBLV	110.1				%	C	HGL041023	HGL041023-W001	ALF	2037-26-5	d8-TOLUENE	110.1	8260D	%		20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	SUR			
PSBA-DPT0337-015.0-20230410	75-01-4	VINYL CHLORIDE	MBLV	111.0				UG/L	C	HGL041023	HGL041023-W001MS	ALF	75-01-4	VINYL CHLORIDE	111.0	8260D	%		20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	IS			
PSBA-DPT0337-015.0-20230410	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	103.4				UG/L	C	HGL041023	HGL041023-W001MS	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	103.4	8260D	%		20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	IS			
PSBA-DPT0337-015.0-20230410	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	96.3				UG/L	C	HGL041023	HGL041023-W001MS	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	96.3	8260D	%		20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	IS			
PSBA-DPT0337-015.0-20230410	79-01-6	TRICHLOROETHENE	MBLV	86.1				UG/L	C	HGL041023	HGL041023-W001MS	ALF	79-01-6	TRICHLOROETHENE	86.1	8260D	%		20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	IS			
PSBA-DPT0337-015.0-20230410	SURR004	TOLUENE-D8 (SURR)	MBLV	109.9				%	C	HGL041023	HGL041023-W001MS	ALF	2037-26-5	d8-TOLUENE	109.9	8260D	%		20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	SUR			
PSBA-DPT0337-025.0-20230410	75-01-4	VINYL CHLORIDE	MBLV	1				UG/L	C	HGL041023	HGL041023-W002	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L		20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	TRG			
PSBA-DPT0337-025.0-20230410	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL041023-W002	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	TRG			
PSBA-DPT0337-025.0-20230410	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL041023-W002	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	TRG			
PSBA-DPT0337-025.0-20230410	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL041023-W002	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	TRG			
PSBA-DPT0337-025.0-20230410	SURR004	TOLUENE-D8 (SURR)	MBLV	106.2				%	C	HGL041023	HGL041023-W002	ALF	2037-26-5	d8-TOLUENE	106.2	8260D	%		20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	SUR			
PSBA-DPT0337-025.0-20230410	75-01-4	VINYL CHLORIDE	MBLV	1				UG/L	C	HGL041023	HGL041023-W002DUP	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L		20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				2	1	100	W	IS			
PSBA-DPT0337-025.0-20230410	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL041023-W002DUP	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				2	1	100	W	IS			
PSBA-DPT0337-025.0-20230410	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL041023-W002DUP	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				2	1	100	W	IS			
PSBA-DPT0337-025.0-20230410	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL041023-W002DUP	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				2	1	100	W	IS			
PSBA-DPT0337-025.0-20230410	SURR004	TOLUENE-D8 (SURR)	MBLV	107.6				%	C	HGL041023	HGL041023-W002DUP	ALF	2037-26-5	d8-TOLUENE	107.6	8260D	%		20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				2	1	100	W	SUR			
PSBA-DPT0337-035.0-20230410	75-01-4	VINYL CHLORIDE	MBLV	11				UG/L	C	HGL041023	HGL041023-W003	ALF	75-01-4	VINYL CHLORIDE	11	8260D	UG/L		20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	TRG			
PSBA-DPT0337-035.0-20230410	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL041023-W003	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	TRG			
PSBA-DPT0337-035.0-20230410	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL041023-W003	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	TRG			
PSBA-DPT0337-035.0-20230410	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL041023-W003	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230410	-99	1	N/A	SW5030B	20230410	8260D	20230410				1	1	100	W	TRG			

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

e-Hardcopy 2.0
Automated Report

Technical Report for

Hydrogeologic, Inc.

FSRA-FDSA/PSBA NS1002; KSC, FL

NS1002.06.09

SGS Job Number: FC6796

Sampling Date: 06/08/23



Report to:

jtracy@hgl.com
drivers@hgl.com

ATTN: Distribution3

Total number of pages in report: 42

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.

Norm Farmer
Technical Director

Client Service contact: Ariel Hartney 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AL, AK, AR, CT, IA, KY, MA, MI. MS, ND, NH, NV, OK, OR, IL, UT, VT, WA, WI, WV

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Sample Summary

Hydrogeologic, Inc.

Job No: FC6796

FSRA-FDSA/PSBA NS1002; KSC, FL
Project No: NS1002.06.09

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC6796-1	06/08/23	13:32	JB	06/09/23	AQ	Ground Water	FDSA-MW0061-007.0-20230608
FC6796-2	06/08/23	08:00	JB	06/09/23	AQ	Trip Blank Water	FDSA-TB0001-000.0-20230608

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Hydrogeologic, Inc. **Job No:** FC6796

Site: FSRA-FDSA/PSBA NS1002; KSC, FL **Report Date:** 6/13/2023 10:36:29 AM

On 06/09/2023, 1 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 1.3 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC6796 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.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V1A1834

Sample(s) FC6740-10MS, FC6740-10MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Trichloroethylene, Vinyl Chloride are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Trichloroethylene, Vinyl Chloride are outside control limits. Probable cause is due to matrix interference.

FC6796-1: Sample was treated with an anti-foaming agent.

V1A1834-MB: Sample was treated with an anti-foaming agent.

SGS North America Inc. - Orlando 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.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

_____

Kim Benham, Client Services *(Signature on File)*

Summary of Hits

Job Number: FC6796
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 06/08/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FC6796-1	**FDSA-MW0061-007.0-20230608**					
cis-1,2-Dichloroethylene [a]		21.9	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [a]		2.8	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene [a]		5.9	1.0	0.50	ug/l	SW846 8260D
FC6796-2	**FDSA-TB0001-000.0-20230608**					

No hits reported in this sample.

(a) Sample was treated with an anti-foaming agent.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	FDSA-MW0061-007.0-20230608		
Lab Sample ID:	FC6796-1	**Date Sampled:**	06/08/23
Matrix:	AQ - Ground Water	**Date Received:**	06/09/23
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	FSRA-FDSA/PSBA NS1002; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1A46928.D	1	06/12/23 18:55	JW	n/a	n/a	V1A1834
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	21.9	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	2.8	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	5.9	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FDSA-TB0001-000.0-20230608
Lab Sample ID: FC6796-2
Matrix: AQ - Trip Blank Water
Method: SW846 8260D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Date Sampled: 06/08/23
Date Received: 06/09/23
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A46927.D	1	06/12/23 18:31	JW	n/a	n/a	V1A1834
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

FC6796

SGS North America Inc - Orlando
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : PAGE 1 OF 1

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: HGL, Inc.
Address: 2405 N. Courtney Parkway, STE 203
City: Merrit Island State: FL Zip:32937
Project Contact: Denise Rivers Email:drivers@hgl.com
Phone #:910-233-8460
Sampler(s) Name(s) (Printed)
Sampler 1: Jason Bublitz Sampler 2:

Project Information

Project Name: FSRA LTM Sampling
Street Kennedy Space Center
City Merritt Island State FL
Project # NS1002.06.09
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION: OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	D. WATER	MEOH	8260STD VOCs + cDCE, tDCE, VC, TCE	LAB USE ONLY
1	FDSA-MW0061-007.0-20230608	6/8/23	1332	JB	GW	3			X							X	
2	FDSA-TB0001-000.0-20230608	6/8/23	0800	JB	GW	2			X							X	

Turnaround Time (Business days)

X 10 Day (Business) Approved By: / Date:
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

INITIAL ASSESSMENT
LABEL VERIFICATION

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1		6.9.23 1142	2	3	6/9/23 1610	4 6/9/23 1613
5	Relinquished by/Affiliation	Date Time:	Received By/Affiliation 6	Relinquished By/Affiliation 7	Date Time:	Received By/Affiliation 8

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 0.6IRT, 1.4IR1
2B 6/9/23

http://www.sgs.com/en/terms-and-conditions

SGS COC ORL_20230607 Rev 031318

FC6796: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: FC6796 **Client:** HGL **Project:** FSRA LTM SAMPLING

Date / Time Received: 6/9/2023 4:13:00 PM **Delivery Method:** COURIER **Airbill #'s:**

Therm ID: IR 1; **Therm CF:** -0.1; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (1.4);

Cooler Temps (Corrected) °C: Cooler 1: (1.3);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☑		☐	☐
2. Trip Blank listed on COC	☑		☐	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230320 pH 10-12 _____ Other: (Specify) pH 1.0 - 12.0 222221

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: ZANEB Date: 6/9/2023 4:13:00 PM Reviewer: _____ Date: _____

FC6796: Chain of Custody
Page 2 of 2

QC Evaluation: DOD QSM5.x Limits

Job Number: FC6796
Account: Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL
Collected: 06/08/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1A1834	SW846 8260D						
V1A1834-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	90	%	78-123
V1A1834-BS	156-60-5	trans-1,2-Dichloroethylene	BSP	REC	93	%	75-124
V1A1834-BS	79-01-6	Trichloroethylene	BSP	REC	88	%	79-123
V1A1834-BS	75-01-4	Vinyl Chloride	BSP	REC	101	%	58-137
V1A1834-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	96	%	80-119
V1A1834-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	98	%	81-118
V1A1834-BS	2037-26-5	Toluene-D8	BSP	SURR	102	%	89-112
V1A1834-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	98	%	85-114
FC6740-10MS*	156-59-2	cis-1,2-Dichloroethylene	MS	REC	130	%	78-123
FC6740-10MS*	156-60-5	trans-1,2-Dichloroethylene	MS	REC	142	%	75-124
FC6740-10MS*	79-01-6	Trichloroethylene	MS	REC	133	%	79-123
FC6740-10MS*	75-01-4	Vinyl Chloride	MS	REC	164	%	58-137
FC6740-10MS*	1868-53-7	Dibromofluoromethane	MS	SURR	97	%	80-119
FC6740-10MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	100	%	81-118
FC6740-10MS*	2037-26-5	Toluene-D8	MS	SURR	101	%	89-112
FC6740-10MS*	460-00-4	4-Bromofluorobenzene	MS	SURR	98	%	85-114
FC6740-10MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	130	%	78-123
FC6740-10MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	1	%	20
FC6740-10MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	REC	138	%	75-124
FC6740-10MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	RPD	2	%	20
FC6740-10MSD*	79-01-6	Trichloroethylene	MSD	REC	130	%	79-123
FC6740-10MSD*	79-01-6	Trichloroethylene	MSD	RPD	2	%	20
FC6740-10MSD*	75-01-4	Vinyl Chloride	MSD	REC	167	%	58-137
FC6740-10MSD*	75-01-4	Vinyl Chloride	MSD	RPD	2	%	20
FC6740-10MSD*	1868-53-7	Dibromofluoromethane	MSD	SURR	97	%	80-119
FC6740-10MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	99	%	81-118
FC6740-10MSD*	2037-26-5	Toluene-D8	MSD	SURR	102	%	89-112
FC6740-10MSD*	460-00-4	4-Bromofluorobenzene	MSD	SURR	100	%	85-114
V1A1834-MB	1868-53-7	Dibromofluoromethane	MB	SURR	99	%	80-119
V1A1834-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	99	%	81-118
V1A1834-MB	2037-26-5	Toluene-D8	MB	SURR	102	%	89-112
V1A1834-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	97	%	85-114
FC6796-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	101	%	80-119
FC6796-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	102	%	81-118
FC6796-1	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FC6796-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	85-114
FC6796-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	102	%	80-119
FC6796-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	101	%	81-118
FC6796-2	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
FC6796-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	85-114

* Sample used for QC is not from job FC6796

MS Volatiles

6

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: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1834-MB [a]	1A46908.D	1	06/12/23	JW	n/a	n/a	V1A1834

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

FC6796-1, FC6796-2

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

(a) Sample was treated with an anti-foaming agent.

Blank Spike Summary

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1834-BS	1A46906.D	1	06/12/23	JW	n/a	n/a	V1A1834

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

FC6796-1, FC6796-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	22.5	90	78-120
156-60-5	trans-1,2-Dichloroethylene	25	23.2	93	76-127
79-01-6	Trichloroethylene	25	21.9	88	81-126
75-01-4	Vinyl Chloride	25	25.2	101	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC6740-10MS	1A46929.D	1	06/12/23	JW	n/a	n/a	V1A1834
FC6740-10MSD	1A46930.D	1	06/12/23	JW	n/a	n/a	V1A1834
FC6740-10	1A46911.D	1	06/12/23	JW	n/a	n/a	V1A1834

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

FC6796-1, FC6796-2

CAS No.	Compound	FC6740-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	1.0	U	25	32.6	130*	25	32.4	130*	1	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.0	U	25	35.4	142*	25	34.6	138*	2	76-127/17
79-01-6	Trichloroethylene	1.0	U	25	33.2	133*	25	32.5	130*	2	81-126/15
75-01-4	Vinyl Chloride	5.2		25	46.3	164*	25	47.0	167*	2	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FC6740-10	Limits
1868-53-7	Dibromofluoromethane	97%	97%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	99%	99%	79-125%
2037-26-5	Toluene-D8	101%	102%	101%	85-112%
460-00-4	4-Bromofluorobenzene	98%	100%	99%	83-118%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1829-BFB
Lab File ID: 1A46336.D
Instrument ID: GCMS1A
Injection Date: 05/23/23
Injection Time: 09:57

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	3178	20.7		Pass
75	30.0 - 60.0% of mass 95	7698	50.0		Pass
95	Base peak, 100% relative abundance	15382	100.0		Pass
96	5.0 - 9.0% of mass 95	1044	6.79		Pass
173	Less than 2.0% of mass 174	89	0.58	(0.59) [a]	Pass
174	50.0 - 100.0% of mass 95	15189	98.7		Pass
175	5.0 - 9.0% of mass 174	1098	7.14	(7.23) [a]	Pass
176	95.0 - 101.0% of mass 174	15051	97.8	(99.1) [a]	Pass
177	5.0 - 9.0% of mass 176	976	6.35	(6.48) [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
V1A1829-IC1829	1A46338.D	05/23/23	10:34	00:37	Initial cal 1
V1A1829-IC1829	1A46340.D	05/23/23	11:06	01:09	Initial cal 2
V1A1829-IC1829	1A46342.D	05/23/23	11:37	01:40	Initial cal 3
V1A1829-IC1829	1A46344.D	05/23/23	12:09	02:12	Initial cal 4
V1A1829-ICC1829	1A46346.D	05/23/23	12:41	02:44	Initial cal 5
V1A1829-IC1829	1A46348.D	05/23/23	13:13	03:16	Initial cal 6
V1A1829-IC1829	1A46350.D	05/23/23	13:45	03:48	Initial cal 7
V1A1829-ICV1829	1A46354.D	05/23/23	15:17	05:20	Initial cal verification 5
V1A1829-ICV1829	1A46356.D	05/23/23	15:48	05:51	Initial cal verification 4

Instrument Performance Check (BFB)

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1834-BFB
Lab File ID: 1A46904.D
Instrument ID: GCMS1A
Injection Date: 06/12/23
Injection Time: 09:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	2746	21.0		Pass
75	30.0 - 60.0% of mass 95	6422	49.2		Pass
95	Base peak, 100% relative abundance	13057	100.0		Pass
96	5.0 - 9.0% of mass 95	848	6.49		Pass
173	Less than 2.0% of mass 174	42	0.32	(0.35) [a]	Pass
174	50.0 - 100.0% of mass 95	12070	92.4		Pass
175	5.0 - 9.0% of mass 174	845	6.47	(7.00) [a]	Pass
176	95.0 - 101.0% of mass 174	12183	93.3	(100.9) [a]	Pass
177	5.0 - 9.0% of mass 176	782	5.99	(6.42) [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
V1A1834-CC1829	1A46905.D	06/12/23	09:36	00:24	Continuing cal 5
V1A1834-BS	1A46906.D	06/12/23	10:00	00:48	Blank Spike
V1A1834-MB	1A46908.D	06/12/23	10:49	01:37	Method Blank
ZZZZZZ	1A46909.D	06/12/23	11:13	02:01	(unrelated sample)
ZZZZZZ	1A46910.D	06/12/23	11:38	02:26	(unrelated sample)
FC6740-10	1A46911.D	06/12/23	12:02	02:50	(used for QC only; not part of job FC6796)
ZZZZZZ	1A46912.D	06/12/23	12:27	03:15	(unrelated sample)
ZZZZZZ	1A46913.D	06/12/23	12:51	03:39	(unrelated sample)
ZZZZZZ	1A46914.D	06/12/23	13:15	04:03	(unrelated sample)
ZZZZZZ	1A46915.D	06/12/23	13:40	04:28	(unrelated sample)
ZZZZZZ	1A46916.D	06/12/23	14:04	04:52	(unrelated sample)
ZZZZZZ	1A46917.D	06/12/23	14:28	05:16	(unrelated sample)
ZZZZZZ	1A46918.D	06/12/23	14:52	05:40	(unrelated sample)
ZZZZZZ	1A46920.D	06/12/23	15:41	06:29	(unrelated sample)
ZZZZZZ	1A46921.D	06/12/23	16:05	06:53	(unrelated sample)
ZZZZZZ	1A46922.D	06/12/23	16:29	07:17	(unrelated sample)
ZZZZZZ	1A46923.D	06/12/23	16:54	07:42	(unrelated sample)
ZZZZZZ	1A46924.D	06/12/23	17:18	08:06	(unrelated sample)
ZZZZZZ	1A46925.D	06/12/23	17:42	08:30	(unrelated sample)
ZZZZZZ	1A46926.D	06/12/23	18:06	08:54	(unrelated sample)
FC6796-2	1A46927.D	06/12/23	18:31	09:19	FDSA-TB0001-000.0-20230608
FC6796-1	1A46928.D	06/12/23	18:55	09:43	FDSA-MW0061-007.0-20230608
FC6740-10MS	1A46929.D	06/12/23	19:19	10:07	Matrix Spike
FC6740-10MSD	1A46930.D	06/12/23	19:43	10:31	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample:	V1A1834-BFB	**Injection Date:**	06/12/23
Lab File ID:	1A46904.D	**Injection Time:**	09:12
Instrument ID:	GCMS1A		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1A1834-ECC1829	1A46931.D	06/12/23	20:08	10:56	Ending cal 5

Internal Standard Area Summary

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Check Std:	V1A1834-CC1829	**Injection Date:**	06/12/23
Lab File ID:	1A46905.D	**Injection Time:**	09:36
Instrument ID:	GCMS1A	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	59634	3.40	43825	5.35	24246	7.10
Check Std [b]	66146	3.41	46809	5.36	24669	7.10
Upper Limit [c]	132292	3.58	93618	5.53	49338	7.27
Lower Limit [d]	33073	3.24	23405	5.19	12335	6.93

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V1A1834-BS	66505	3.40	47122	5.36	25517	7.10
ZZZZZZ	61459	3.41	42912	5.36	22950	7.10
ZZZZZZ	60396	3.40	42345	5.36	22762	7.10
FC6740-10	59537	3.40	41512	5.36	22409	7.10
ZZZZZZ	59873	3.41	42106	5.36	22595	7.10
ZZZZZZ	59676	3.40	42380	5.36	22600	7.10
ZZZZZZ	58677	3.40	40956	5.36	21984	7.10
ZZZZZZ	59283	3.41	42014	5.36	22228	7.10
ZZZZZZ	58478	3.40	41486	5.36	21746	7.10
ZZZZZZ	59141	3.40	41492	5.36	22367	7.10
ZZZZZZ	58965	3.40	41271	5.36	22159	7.10
ZZZZZZ	57845	3.40	40789	5.36	21790	7.10
ZZZZZZ	58731	3.40	41382	5.36	21993	7.10
ZZZZZZ	57505	3.40	40816	5.36	21888	7.10
ZZZZZZ	58084	3.40	41173	5.36	21698	7.10
ZZZZZZ	56791	3.40	40040	5.36	21405	7.10
ZZZZZZ	56648	3.40	40262	5.36	21425	7.10
ZZZZZZ	57520	3.40	40667	5.36	21636	7.10
FC6796-2	57003	3.40	39760	5.36	21521	7.10
FC6796-1 [e]	57466	3.40	40427	5.36	21305	7.10
FC6740-10MS	61908	3.40	44142	5.36	23839	7.10
FC6740-10MSD	64242	3.40	45331	5.36	24243	7.10
V1A1834-ECC1829	66195	3.41	47055	5.36	24780	7.10

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: V1A1829-ICC1829 1A46346.D 05/23/23 12:41
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
(e) Sample was treated with an anti-foaming agent.

Surrogate Recovery Summary

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FC6796-1	1A46928.D	101	102	102	99
FC6796-2	1A46927.D	102	101	102	98
FC6740-10MS	1A46929.D	97	100	101	98
FC6740-10MSD	1A46930.D	97	99	102	100
V1A1834-BS	1A46906.D	96	98	102	98
V1A1834-MB	1A46908.D	99	99	102	97

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-118%
S2 = 1,2-Dichloroethane-D4	79-125%
S3 = Toluene-D8	85-112%
S4 = 4-Bromofluorobenzene	83-118%

Initial Calibration Summary

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1829-ICC1829
Lab FileID: 1A46346.D

Response Factor Report MSVOA17

Method : C:\msdchem\1\MET...V1A_05-23-2023.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed May 24 11:40:15 2023
Response via : Initial Calibration

Calibration Files
1 =1A46338.D 2 =1A46340.D 3 =1A46342.D 4 =1A46344.D
5 =1A46346.D 6 =1A46348.D 7 =1A46350.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.165	0.207	0.201	0.162	0.202	0.189	0.190	0.188	9.45
3)P Chloromethane	0.351	0.263	0.246	0.208	0.229	0.214	0.215	0.246	20.31
---- Linear regr., Force(0,0) ---- Coefficient = 0.9986									
Response Ratio = 0.00000 + 0.21870 *A									
4) 1,3-butadiene	0.382	0.362	0.309	0.267	0.314	0.277	0.278	0.313	14.21
5)C Vinyl Chloride	0.333	0.279	0.263	0.226	0.265	0.247	0.249	0.266	12.73
6) Bromomethane	0.127	0.098	0.099	0.096	0.096	0.091	0.095	0.100	12.04
7) Chloroethane	0.293	0.215	0.193	0.160	0.154	0.120	0.103	0.177	36.39
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9977									
Response Ratio = 0.00000 + 0.19208 *A + -0.04664 *A^2									
8) Trichlorofluorome	0.455	0.414	0.410	0.340	0.402	0.366	0.329	0.388	11.61
9) Ethyl Ether	0.266	0.212	0.197	0.176	0.209	0.207	0.217	0.212	12.89
10) Ethanol		0.003	0.004	0.004	0.005	0.004	0.004	0.004	12.00
11) 1,2-Dichlorotrifl	0.297	0.296	0.288	0.235	0.295	0.282	0.297	0.284	7.86
12)C 1,1-Dichloroethen	0.473	0.407	0.391	0.320	0.396	0.375	0.395	0.394	11.46
13) Freon 113	0.174	0.233	0.226	0.174	0.236	0.226	0.241	0.216	13.33
14) Carbon Disulfide	0.947	0.682	0.640	0.523	0.622	0.593	0.634	0.663	20.32
---- Linear regr., Force(0,0) ---- Coefficient = 0.9960									
Response Ratio = 0.00000 + 0.61180 *A									
15) Iodomethane	0.140	0.136	0.132	0.147	0.183	0.202	0.222	0.166	21.69
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9987									
Response Ratio = 0.00000 + 0.13656 *A + 0.04391 *A^2									
16) Acrolein	0.067	0.058	0.053	0.050	0.058	0.059	0.060	0.058	9.11
17) Allyl chloride	0.353	0.328	0.275	0.280	0.332	0.314	0.325	0.315	9.02
18) Methylene Chlorid	0.713	0.452	0.376	0.324	0.350	0.325	0.329	0.410	34.46
---- Linear regr., Force(0,0) ---- Coefficient = 0.9987									
Response Ratio = 0.00000 + 0.33652 *A									
19) Acetone	0.151	0.125	0.118	0.101	0.108	0.101	0.100	0.115	16.28
---- Linear regr., Force(0,0) ---- Coefficient = 0.9983									
Response Ratio = 0.00000 + 0.10280 *A									
20) Methyl acetate	0.330	0.307	0.285	0.247	0.279	0.274	0.285	0.287	9.08
21) trans-1,2-Dichlor	0.459	0.419	0.378	0.336	0.398	0.378	0.399	0.395	9.66
22) Hexane	0.226	0.239	0.234	0.199	0.247	0.239	0.246	0.233	7.05
23) Methyl Tert Butyl	0.811	0.765	0.729	0.649	0.758	0.750	0.795	0.751	7.00
24) Acetonitrile	0.061	0.050	0.042	0.038	0.043	0.041	0.045	0.046	16.81
---- Linear regr., Force(0,0) ---- Coefficient = 0.9960									
Response Ratio = 0.00000 + 0.04272 *A									
25) Tert Butyl Alcoho	0.056	0.057	0.054	0.049	0.057	0.054	0.054	0.054	5.21

Initial Calibration Summary

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1829-ICC1829
Lab FileID: 1A46346.D

26)	Di-isopropyl ethe	0.882	0.794	0.782	0.701	0.823	0.809	0.852	0.806	7.15
27)	Chloroprene	1.286	1.135	1.063	0.960	1.124	1.068	1.110	1.106	8.89
28)P	1,1-Dichloroethan	0.620	0.537	0.496	0.443	0.511	0.494	0.518	0.517	10.40
29)	Acrylonitrile	0.152	0.138	0.134	0.117	0.136	0.130	0.133	0.134	7.85
30)	ETBE	0.921	0.845	0.800	0.734	0.857	0.847	0.882	0.841	7.12
31)	Vinyl acetate	0.614	0.586	0.579	0.518	0.603	0.582	0.593	0.582	5.27
32)	cis-1,2-Dichloroe	0.323	0.293	0.282	0.255	0.285	0.281	0.296	0.288	7.02
33)	2,2-Dichloropropa	0.439	0.381	0.361	0.320	0.379	0.368	0.388	0.377	9.39
34)	Bromochloromethan	0.129	0.151	0.145	0.126	0.138	0.129	0.132	0.136	6.83
35)	Cyclohexane	0.410	0.429	0.423	0.337	0.457	0.436	0.466	0.423	10.03
36)C	Chloroform	0.638	0.524	0.503	0.448	0.520	0.498	0.523	0.522	11.04
37)	Ethyl acetate	0.399	0.375	0.364	0.323	0.369	0.359	0.365	0.365	6.25
38)	Tetrahydrofuran	0.152	0.123	0.119	0.114	0.121	0.114	0.116	0.123	11.02
39)S	Dibromofluorometh	0.281	0.287	0.287	0.275	0.279	0.274	0.273	0.280	2.13
40)	Carbon Tetrachlor	0.362	0.392	0.352	0.302	0.373	0.365	0.392	0.362	8.45
41)	1,1,1-Trichloroet	0.452	0.432	0.413	0.352	0.434	0.416	0.441	0.420	7.80
42)	2-Butanone	0.207	0.198	0.197	0.165	0.186	0.179	0.178	0.187	7.76
43)	1,1-Dichloroprope	0.419	0.376	0.340	0.293	0.359	0.345	0.364	0.357	10.72
44)	tert-Butyl format	0.191	0.181	0.181	0.171	0.205	0.208	0.218	0.193	8.91
45)	Propionitrile	0.065	0.062	0.056	0.051	0.058	0.054	0.054	0.057	8.64
46)	Methacrylonitrile	0.240	0.233	0.203	0.190	0.216	0.204	0.205	0.213	8.45
47)	Benzene	1.283	1.103	1.078	0.943	1.098	1.067	1.101	1.096	9.09
48)	TAME	0.778	0.744	0.697	0.645	0.764	0.753	0.789	0.738	6.88
49)S	1,2-Dichloroethan	0.357	0.358	0.360	0.359	0.356	0.358	0.326	0.353	3.39
50)	1,2-Dichloroethan	0.503	0.447	0.423	0.370	0.421	0.399	0.407	0.424	9.91
51)	Isobutyl Alcohol	0.032	0.033	0.029	0.027	0.030	0.026	0.024	0.029	11.76
52)	Tert Amyl Alcohol	0.042	0.043	0.041	0.037	0.044	0.043	0.043	0.042	5.37
53)	Trichloroethene	0.344	0.307	0.291	0.249	0.298	0.285	0.300	0.296	9.52
54)	Methylcyclohexane	0.376	0.439	0.419	0.345	0.465	0.447	0.473	0.423	11.14
55)	Dibromomethane	0.211	0.196	0.186	0.158	0.185	0.179	0.186	0.186	8.64
56)C	1,2-Dichloropropa	0.298	0.288	0.268	0.243	0.282	0.272	0.283	0.276	6.41
57)	Bromodichlorometh	0.430	0.349	0.354	0.322	0.379	0.373	0.385	0.370	9.21
58)	Methyl methacryla	0.318	0.274	0.245	0.248	0.297	0.286	0.295	0.280	9.54
59)	1,4-Dioxane		0.003	0.004	0.003	0.004	0.004	0.004	0.004	12.84
60)	2-Chloroethyl vin	0.181	0.180	0.180	0.165	0.194	0.188	0.194	0.183	5.47
61)	cis-1,3-Dichlorop	0.422	0.401	0.387	0.356	0.429	0.420	0.436	0.407	6.95
62)	I Chlorobenzene-d5	----------	----------	----------	ISTD	----------	----------	----------	----------	
63)S	Toluene-d8	1.330	1.332	1.330	1.318	1.320	1.346	1.364	1.334	1.18
64)C	Toluene	1.852	1.559	1.484	1.312	1.552	1.516	1.597	1.553	10.37
65)	2-Nitropropane	0.118	0.119	0.118	0.112	0.137	0.139	0.140	0.126	9.51
66)	4-Methyl-2-pentan	0.508	0.490	0.501	0.433	0.497	0.488	0.499	0.488	5.17
67)	trans-1,3-Dichlor	0.509	0.490	0.507	0.464	0.560	0.555	0.579	0.523	7.98
68)	Tetrachloroethene	0.477	0.486	0.452	0.390	0.478	0.466	0.492	0.463	7.55
69)	Ethyl methacrylat	0.416	0.430	0.385	0.394	0.476	0.470	0.494	0.438	9.75
70)	1,1,2-Trichloroet	0.328	0.295	0.292	0.260	0.309	0.301	0.309	0.299	6.98
71)	Dibromochlorometh	0.340	0.355	0.353	0.323	0.396	0.397	0.413	0.368	9.19
72)	1,3-Dichloropropa	0.586	0.569	0.550	0.491	0.571	0.563	0.575	0.558	5.62
73)	1,2-Dibromoethane	0.385	0.384	0.369	0.334	0.395	0.392	0.403	0.380	6.07
74)	3,3-Dimethyl-1-Bu	0.060	0.062	0.062	0.056	0.066	0.069	0.075	0.064	10.05
75)	2-hexanone	0.461	0.478	0.477	0.423	0.480	0.471	0.484	0.468	4.52
76)	1-Chlorohexane	0.634	0.559	0.554	0.452	0.546	0.537	0.552	0.548	9.69
77)C	Ethylbenzene	2.026	1.686	1.617	1.434	1.694	1.649	1.715	1.689	10.43
78)P	Chlorobenzene	1.238	1.056	0.983	0.891	1.022	1.010	1.039	1.034	10.13
79)	1,1,1,2-Tetrachlo	0.348	0.354	0.343	0.314	0.384	0.370	0.385	0.357	7.12
80)	m,p-Xylene	1.519	1.371	1.317	1.194	1.395	1.356	1.395	1.364	7.15
81)	o-Xylene	1.596	1.403	1.365	1.234	1.443	1.410	1.445	1.414	7.62
82)	Styrene	1.023	0.967	0.991	0.933	1.111	1.090	1.120	1.034	7.18
83)P	Bromoform	0.166	0.222	0.235	0.229	0.284	0.288	0.302	0.246	19.42

---- Linear regr., Force(0,0) ---- Coefficient = 0.9939

Initial Calibration Summary

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1829-ICC1829
Lab FileID: 1A46346.D

```
               Response Ratio = 0.00000 + 0.28293 *A

 84)  Isopropylbenzene  1.850 1.672 1.635 1.448 1.725 1.656 1.701 1.670   7.23

 85) I   1,4-Dichlorobenzene-d ----------------ISTD--------------------
 86)S 4-Bromofluorobenz 0.838 0.833 0.847 0.833 0.857 0.864 0.866 0.848   1.67
 87)  cis-1,4-Dichloro-       0.064 0.093 0.118 0.161 0.166 0.190 0.132  36.79
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9953
               Response Ratio = 0.00000 + 0.10338 *A + 0.04488 *A^2

 88)  n-Propylbenzene   3.863 3.538 3.384 2.999 3.667 3.575 3.668 3.528   7.80
 89)  Bromobenzene      0.899 0.796 0.755 0.690 0.809 0.815 0.828 0.799   8.05
 90)P 1,1,2,2-Tetrachlo 0.863 0.883 0.834 0.770 0.910 0.912 0.939 0.873   6.52
 91)  1,3,5-Trimethylbe 2.729 2.453 2.329 2.157 2.584 2.538 2.629 2.489   7.80
 92)  2-Chlorotoluene   2.423 2.065 1.922 1.786 2.117 2.114 2.145 2.082   9.53
 93)  trans-1,4-Dichlor       0.142 0.162 0.179 0.236 0.256 0.273 0.208  25.99
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9967
               Response Ratio = 0.00000 + 0.17140 *A + 0.05396 *A^2

 94)  1,2,3-Trichloropr 0.211 0.259 0.250 0.230 0.268 0.271 0.271 0.251   9.11
 95)  Cyclohexanone           0.028 0.028 0.027 0.033 0.035 0.036 0.031  12.93
 96)  4-Chlorotoluene   2.504 2.175 2.064 1.883 2.223 2.206 2.246 2.186   8.63
 97)  tert-Butylbenzene 1.404 1.334 1.330 1.189 1.440 1.397 1.431 1.361   6.40
 98)  1,2,4-Trimethylbe 2.692 2.350 2.252 2.123 2.496 2.471 2.560 2.420   7.96
 99)  Pentachloroethane 0.251 0.355 0.320 0.345 0.427 0.432 0.452 0.369  19.61
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9932
               Response Ratio = 0.00000 + 0.42390 *A

100)  sec-Butylbenzene  3.363 3.056 2.928 2.587 3.192 3.083 3.196 3.058   8.11
101)  4-Isopropyltoluen 2.796 2.440 2.368 2.150 2.642 2.587 2.675 2.523   8.66
102)  1,3-Dichlorobenze 1.748 1.516 1.437 1.292 1.513 1.473 1.522 1.500   9.04
103)  1,2,3-Trimethylbe 2.708 2.306 2.276 2.052 2.458 2.405 2.460 2.381   8.47
104)  1,4-Dichlorobenze 1.807 1.556 1.434 1.295 1.500 1.479 1.515 1.512  10.23
105)  n-Butylbenzene    1.094 1.118 1.072 0.982 1.208 1.176 1.202 1.122   7.26
106)  Benzyl Chloride         0.180 0.192 0.226 0.286 0.297 0.322 0.250  23.62
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9926
               Response Ratio = 0.00000 + 0.29154 *A

107)  1,2-Dichlorobenze 1.653 1.305 1.267 1.176 1.363 1.336 1.365 1.352  10.95
108)  1,2-Dibromo-3-Chl       0.104 0.115 0.121 0.143 0.146 0.157 0.131  15.84
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9956
               Response Ratio = 0.00000 + 0.14530 *A

109)  Hexachlorobutadie 0.267 0.268 0.255 0.213 0.270 0.258 0.250 0.254   7.74
110)  1,2,4-Trichlorobe 0.800 0.690 0.618 0.582 0.688 0.706 0.728 0.687  10.38
111)  Naphthalene       1.244 1.256 1.215 1.159 1.444 1.513 1.653 1.355  13.54
112)  1,2,3-Trichlorobe 0.492 0.522 0.473 0.438 0.517 0.526 0.555 0.503   7.74
 ---------------------------------------------------------------------------
 (#) = Out of Range

          V1A_05-23-2023.M        Wed May 24 11:42:39 2023
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Initial Calibration Verification

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1829-ICV1829
Lab FileID: 1A46354.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\05-23-2023\1A46354.D Vial: 10
Acq On : 23 May 2023 3:17 pm Operator: jeniferw
Sample : ICV1829-5 Inst : MSVOA17
Misc : MS54063,V1A1829,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V1A_05-23-2023.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed May 24 11:40:15 2023
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	105	0.00	3.41
2	Dichlorodifluoromethane	0.188	0.213	-13.3	110	0.00	1.02
		Amount	Calc.	%Drift			
3 P	Chloromethane	40.000	39.293	1.8	98	0.00	1.13
		AvgRF	CCRF	%Dev			
4	1,3-butadiene	0.313	0.246	21.4#	82	0.00	1.18
5 C	Vinyl Chloride	0.266	0.244	8.3	96	0.00	1.17
6	Bromomethane	0.100	0.116	-16.0	127	0.00	1.35
		Amount	Calc.	%Drift			
7	Chloroethane	40.000	37.695	5.8	100	0.00	1.41
		AvgRF	CCRF	%Dev			
8	Trichlorofluoromethane	0.388	0.384	1.0	100	0.00	1.50
9	Ethyl Ether	0.212	0.226	-6.6	113	0.00	1.66
10	Ethanol	0.004	0.004	0.0	98	0.00	1.71
11	1,2-Dichlorotrifluoroetha	0.284	0.293	-3.2	104	0.00	1.74
12 C	1,1-Dichloroethene	0.394	0.360	8.6	95	0.00	1.76
13	Freon 113	0.216	0.261	-20.8#	116	0.00	1.79
		Amount	Calc.	%Drift			
14	Carbon Disulfide	40.000	41.854	-4.6	108	0.00	1.78
15	Iodomethane	40.000	47.429	-18.6	120	0.00	1.83
		AvgRF	CCRF	%Dev			
16	Acrolein	0.058	0.061	-5.2	110	0.00	1.91
17	Allyl chloride	0.315	0.329	-4.4	103	0.00	2.00
		Amount	Calc.	%Drift			
18	Methylene Chloride	40.000	39.520	1.2	99	0.00	2.04
19	Acetone	200.000	209.736	-4.9	104	0.00	2.05
		AvgRF	CCRF	%Dev			
20	Methyl acetate	0.287	0.251	12.5	94	0.00	2.13
21	trans-1,2-Dichloroethene	0.395	0.364	7.8	96	0.00	2.13
22	Hexane	0.233	0.263	-12.9	111	0.00	2.20
23	Methyl Tert Butyl Ether	0.751	0.759	-1.1	105	0.00	2.20
		Amount	Calc.	%Drift			
24	Acetonitrile	400.000	396.574	0.9	104	0.00	2.27

Initial Calibration Verification

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1829-ICV1829
Lab FileID: 1A46354.D

			AvgRF	CCRF	%Dev			
25		Tert Butyl Alcohol	0.054	0.055	-1.9	101	0.00	2.21
26		Di-isopropyl ether	0.806	0.790	2.0	100	0.00	2.40
27		Chloroprene	1.106	1.024	7.4	95	0.00	2.44
28	P	1,1-Dichloroethane	0.517	0.453	12.4	93	0.00	2.44
29		Acrylonitrile	0.134	0.129	3.7	99	0.00	2.44
30		ETBE	0.841	0.869	-3.3	106	0.00	2.58
31		Vinyl acetate	0.582	0.627	-7.7	109	0.00	2.57
32		cis-1,2-Dichloroethene	0.288	0.264	8.3	97	0.00	2.72
33		2,2-Dichloropropane	0.377	0.386	-2.4	106	0.00	2.79
34		Bromochloromethane	0.136	0.139	-2.2	105	0.00	2.83
35		Cyclohexane	0.423	0.450	-6.4	103	0.00	2.87
36	C	Chloroform	0.522	0.496	5.0	100	0.00	2.87
37		Ethyl acetate	0.365	0.361	1.1	102	0.00	2.92
38		Tetrahydrofuran	0.123	0.114	7.3	99	0.00	2.95
39	S	Dibromofluoromethane	0.280	0.271	3.2	101	0.00	2.96
40		Carbon Tetrachloride	0.362	0.355	1.9	100	0.00	2.97
41		1,1,1-Trichloroethane	0.420	0.410	2.4	99	0.00	2.99
42		2-Butanone	0.187	0.183	2.1	103	0.00	3.00
43		1,1-Dichloropropene	0.357	0.344	3.6	100	0.00	3.06
44		tert-Butyl formate		----------NA----------				
45		Propionitrile	0.057	0.055	3.5	99	0.00	3.15
46		Methacrylonitrile	0.213	0.210	1.4	101	0.00	3.17
47		Benzene	1.096	1.044	4.7	99	0.00	3.19
48		TAME	0.738	0.769	-4.2	105	0.00	3.25
49	S	1,2-Dichloroethane-d4	0.353	0.356	-0.8	105	0.00	3.24
50		1,2-Dichloroethane	0.424	0.409	3.5	102	0.00	3.28
51		Isobutyl Alcohol	0.029	0.031	-6.9	108	0.00	3.26
52		Tert Amyl Alcohol	0.042	0.045	-7.1	106	0.00	3.33
53		Trichloroethene	0.296	0.289	2.4	101	0.00	3.51
54		Methylcyclohexane	0.423	0.464	-9.7	104	0.00	3.54
55		Dibromomethane	0.186	0.183	1.6	103	0.00	3.74
56	C	1,2-Dichloropropane	0.276	0.282	-2.2	105	0.00	3.80
57		Bromodichloromethane	0.370	0.362	2.2	100	0.00	3.84
58		Methyl methacrylate	0.280	0.282	-0.7	99	0.00	3.92
59		1,4-Dioxane	0.004	0.004	0.0	94	0.00	3.94
60		2-Chloroethyl vinyl ether	0.183	0.190	-3.8	103	0.00	4.17
61		cis-1,3-Dichloropropene	0.407	0.417	-2.5	102	0.00	4.21
62	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00	5.36
63	S	Toluene-d8	1.334	1.321	1.0	105	0.00	4.34
64	C	Toluene	1.553	1.486	4.3	101	0.00	4.37
65		2-Nitropropane	0.126	0.133	-5.6	103	0.00	4.47
66		4-Methyl-2-pentanone	0.488	0.478	2.0	101	0.00	4.59
67		trans-1,3-Dichloropropene	0.523	0.514	1.7	97	0.00	4.62
68		Tetrachloroethene	0.463	0.453	2.2	100	0.00	4.64
69		Ethyl methacrylate	0.438	0.482	-10.0	106	0.00	4.74
70		1,1,2-Trichloroethane	0.299	0.301	-0.7	102	0.00	4.72
71		Dibromochloromethane	0.368	0.391	-6.3	104	0.00	4.84
72		1,3-Dichloropropane	0.558	0.585	-4.8	108	0.00	4.90
73		1,2-Dibromoethane	0.380	0.387	-1.8	103	0.00	5.00
74		3,3-Dimethyl-1-Butanol	0.064	0.064	0.0	103	0.00	5.13
75		2-hexanone	0.468	0.462	1.3	101	0.00	5.14
76		1-Chlorohexane	0.548	0.488	10.9	94	0.00	5.37
77	C	Ethylbenzene	1.689	1.672	1.0	104	0.00	5.41
78	P	Chlorobenzene	1.034	1.000	3.3	103	0.00	5.37
79		1,1,1,2-Tetrachloroethane	0.357	0.369	-3.4	101	0.00	5.41
80		m,p-Xylene	1.364	1.344	1.5	101	0.00	5.51
81		o-Xylene	1.414	1.366	3.4	100	0.00	5.81

Initial Calibration Verification

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1829-ICV1829
Lab FileID: 1A46354.D

82		Styrene	1.034	1.063	-2.8	101	0.00	5.84
			Amount	Calc.	%Drift			
83	P	Bromoform	40.000	38.997	2.5	102	0.00	5.84
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.670	1.635	2.1	100	0.00	6.04
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	7.10
86	S	4-Bromofluorobenzene	0.848	0.849	-0.1	104	0.00	6.24
			Amount	Calc.	%Drift			
87		cis-1,4-Dichloro-2-butene	40.000	48.279	-20.7#	116	0.00	6.28
			AvgRF	CCRF	%Dev			
88		n-Propylbenzene	3.528	3.469	1.7	100	0.00	6.36
89		Bromobenzene	0.799	0.832	-4.1	108	0.00	6.31
90	P	1,1,2,2-Tetrachloroethane	0.873	0.903	-3.4	104	0.00	6.38
91		1,3,5-Trimethylbenzene	2.489	2.552	-2.5	104	0.00	6.51
92		2-Chlorotoluene	2.082	2.039	2.1	101	0.00	6.46
			Amount	Calc.	%Drift			
93		trans-1,4-Dichloro-2-Bute	40.000	43.616	-9.0	106	0.00	6.51
			AvgRF	CCRF	%Dev			
94		1,2,3-Trichloropropane	0.251	0.278	-10.8	109	0.00	6.48
95		Cyclohexanone	0.031	0.041	-32.3#	132	0.00	6.49
96		4-Chlorotoluene	2.186	2.126	2.7	101	0.00	6.58
97		tert-Butylbenzene	1.361	1.394	-2.4	102	0.00	6.75
98		1,2,4-Trimethylbenzene	2.420	2.473	-2.2	104	0.00	6.81
			Amount	Calc.	%Drift			
99		Pentachloroethane	40.000	39.683	0.8	104	0.00	6.75
			AvgRF	CCRF	%Dev			
100		sec-Butylbenzene	3.058	2.989	2.3	99	0.00	6.90
101		4-Isopropyltoluene	2.523	2.557	-1.3	102	0.00	7.01
102		1,3-Dichlorobenzene	1.500	1.426	4.9	99	0.00	7.04
103		1,2,3-Trimethylbenzene	2.381	2.379	0.1	102	0.00	7.15
104		1,4-Dichlorobenzene	1.512	1.449	4.2	102	0.00	7.11
105		n-Butylbenzene	1.122	1.245	-11.0	108	0.00	7.35
			Amount	Calc.	%Drift			
106		Benzyl Chloride	40.000	39.272	1.8	105	0.00	7.30
			AvgRF	CCRF	%Dev			
107		1,2-Dichlorobenzene	1.352	1.334	1.3	103	0.00	7.44
			Amount	Calc.	%Drift			
108		1,2-Dibromo-3-Chloropropa	40.000	39.832	0.4	106	0.00	8.01
			AvgRF	CCRF	%Dev			
109		Hexachlorobutadiene	0.254	0.276	-8.7	108	0.00	8.52
110		1,2,4-Trichlorobenzene	0.687	0.683	0.6	104	0.00	8.51
111		Naphthalene	1.355	1.388	-2.4	101	0.00	8.72
112		1,2,3-Trichlorobenzene	0.503	0.516	-2.6	105	0.00	8.85

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

Initial Calibration Verification

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1829-ICV1829
Lab FileID: 1A46354.D

1A46346.D V1A_05-23-2023.M Wed May 24 11:42:26 2023

Initial Calibration Verification

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1829-ICV1829
Lab FileID: 1A46356.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\05-23-2023\1A46356.D Vial: 11
Acq On : 23 May 2023 3:48 pm Operator: jeniferw
Sample : ICV1829-4 Inst : MSVOA17
Misc : MS54063,V1A1829,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V1A_05-23-2023.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed May 24 09:26:17 2023
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	111	0.00	3.40
2		Dichlorodifluoromethane		NA				
		---------- Amount	Calc.	%Drift	----------			
3	P	Chloromethane		NA				
		---------- AvgRF	CCRF	%Dev	----------			
4		1,3-butadiene	0.313	0.269	14.1	113	0.00	1.18
5	C	Vinyl Chloride		NA				
6		Bromomethane		NA				
		---------- Amount	Calc.	%Drift	----------			
7		Chloroethane		NA				
		---------- AvgRF	CCRF	%Dev	----------			
8		Trichlorofluoromethane		NA				
9		Ethyl Ether		NA				
10		Ethanol		NA				
11		1,2-Dichlorotrifluoroetha		NA				
12	C	1,1-Dichloroethene		NA				
13		Freon 113		NA				
		---------- Amount	Calc.	%Drift	----------			
14		Carbon Disulfide		NA				
15		Iodomethane		NA				
		---------- AvgRF	CCRF	%Dev	----------			
16		Acrolein		NA				
17		Allyl chloride		NA				
		---------- Amount	Calc.	%Drift	----------			
18		Methylene Chloride		NA				
19		Acetone		NA				
		---------- AvgRF	CCRF	%Dev	----------			
20		Methyl acetate		NA				
21		trans-1,2-Dichloroethene		NA				
22		Hexane		NA				
23		Methyl Tert Butyl Ether		NA				
		---------- Amount	Calc.	%Drift	----------			
24		Acetonitrile		NA				

Initial Calibration Verification

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1829-ICV1829
Lab FileID: 1A46356.D

			AvgRF	CCRF	%Dev			
25		Tert Butyl Alcohol		----------NA----------				
26		Di-isopropyl ether		----------NA----------				
27		Chloroprene		----------NA----------				
28	P	1,1-Dichloroethane		----------NA----------				
29		Acrylonitrile		----------NA----------				
30		ETBE		----------NA----------				
31		Vinyl acetate		----------NA----------				
32		cis-1,2-Dichloroethene		----------NA----------				
33		2,2-Dichloropropane		----------NA----------				
34		Bromochloromethane		----------NA----------				
35		Cyclohexane		----------NA----------				
36	C	Chloroform		----------NA----------				
37		Ethyl acetate		----------NA----------				
38		Tetrahydrofuran		----------NA----------				
39	S	Dibromofluoromethane	0.280	0.272	2.9	110	0.00	2.96
40		Carbon Tetrachloride		----------NA----------				
41		1,1,1-Trichloroethane		----------NA----------				
42		2-Butanone		----------NA----------				
43		1,1-Dichloropropene		----------NA----------				
44		tert-Butyl formate		----------NA----------				
45		Propionitrile		----------NA----------				
46		Methacrylonitrile		----------NA----------				
47		Benzene		----------NA----------				
48		TAME		----------NA----------				
49	S	1,2-Dichloroethane-d4	0.353	0.348	1.4	108	0.00	3.24
50		1,2-Dichloroethane		----------NA----------				
51		Isobutyl Alcohol		----------NA----------				
52		Tert Amyl Alcohol		----------NA----------				
53		Trichloroethene		----------NA----------				
54		Methylcyclohexane		----------NA----------				
55		Dibromomethane		----------NA----------				
56	C	1,2-Dichloropropane		----------NA----------				
57		Bromodichloromethane		----------NA----------				
58		Methyl methacrylate		----------NA----------				
59		1,4-Dioxane		----------NA----------				
60		2-Chloroethyl vinyl ether		----------NA----------				
61		cis-1,3-Dichloropropene		----------NA----------				
62	I	Chlorobenzene-d5	1.000	1.000	0.0	110	0.00	5.35
63	S	Toluene-d8	1.334	1.320	1.0	110	0.00	4.34
64	C	Toluene		----------NA----------				
65		2-Nitropropane		----------NA----------				
66		4-Methyl-2-pentanone		----------NA----------				
67		trans-1,3-Dichloropropene		----------NA----------				
68		Tetrachloroethene		----------NA----------				
69		Ethyl methacrylate		----------NA----------				
70		1,1,2-Trichloroethane		----------NA----------				
71		Dibromochloromethane		----------NA----------				
72		1,3-Dichloropropane		----------NA----------				
73		1,2-Dibromoethane		----------NA----------				
74		3,3-Dimethyl-1-Butanol		----------NA----------				
75		2-hexanone		----------NA----------				
76		1-Chlorohexane		----------NA----------				
77	C	Ethylbenzene		----------NA----------				
78	P	Chlorobenzene		----------NA----------				
79		1,1,1,2-Tetrachloroethane		----------NA----------				
80		m,p-Xylene		----------NA----------				
81		o-Xylene		----------NA----------				

Initial Calibration Verification

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1829-ICV1829
Lab FileID: 1A46356.D

82		Styrene			NA				
			Amount	Calc.	%Drift				
83	P	Bromoform			NA				
			AvgRF	CCRF	%Dev				
84		Isopropylbenzene			NA				
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00	7.10	
86	S	4-Bromofluorobenzene	0.848	0.833	1.8	109	0.00	6.24	
			Amount	Calc.	%Drift				
87		cis-1,4-Dichloro-2-butene			NA				
			AvgRF	CCRF	%Dev				
88		n-Propylbenzene			NA				
89		Bromobenzene			NA				
90	P	1,1,2,2-Tetrachloroethane			NA				
91		1,3,5-Trimethylbenzene			NA				
92		2-Chlorotoluene			NA				
			Amount	Calc.	%Drift				
93		trans-1,4-Dichloro-2-Bute			NA				
			AvgRF	CCRF	%Dev				
94		1,2,3-Trichloropropane			NA				
95		Cyclohexanone			NA				
96		4-Chlorotoluene			NA				
97		tert-Butylbenzene			NA				
98		1,2,4-Trimethylbenzene			NA				
			Amount	Calc.	%Drift				
99		Pentachloroethane			NA				
			AvgRF	CCRF	%Dev				
100		sec-Butylbenzene			NA				
101		4-Isopropyltoluene			NA				
102		1,3-Dichlorobenzene			NA				
103		1,2,3-Trimethylbenzene			NA				
104		1,4-Dichlorobenzene			NA				
105		n-Butylbenzene			NA				
			Amount	Calc.	%Drift				
106		Benzyl Chloride			NA				
			AvgRF	CCRF	%Dev				
107		1,2-Dichlorobenzene			NA				
			Amount	Calc.	%Drift				
108		1,2-Dibromo-3-Chloropropa			NA				
			AvgRF	CCRF	%Dev				
109		Hexachlorobutadiene			NA				
110		1,2,4-Trichlorobenzene			NA				
111		Naphthalene			NA				
112		1,2,3-Trichlorobenzene			NA				

(#) = Out of Range SPCC's out = 3 CCC's out = 6

Initial Calibration Verification

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1829-ICV1829
Lab FileID: 1A46356.D

1A46344.D V1A_05-23-2023.M Wed May 24 11:12:08 2023

Continuing Calibration Summary

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1834-CC1829
Lab FileID: 1A46905.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\06-12-2023\1A46905.D Vial: 2
Acq On : 12 Jun 2023 9:36 am Operator: jeniferw
Sample : CC1829-5 Inst : MSVOA17
Misc : MS54185,V1A1834,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V1A_05-23-2023.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed May 24 11:40:15 2023
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	111	0.00	3.41
2		Dichlorodifluoromethane	0.188	0.190	-1.1	104	0.00	1.03
			Amount	Calc.	%Drift			
3	P	Chloromethane	40.000	45.523	-13.8	121	0.00	1.13
			AvgRF	CCRF	%Dev			
4		1,3-butadiene	0.313	0.342	-9.3	121	0.00	1.19
5	C	Vinyl Chloride	0.266	0.283	-6.4	118	0.00	1.17
6		Bromomethane	0.100	0.101	-1.0	118	0.00	1.35
			Amount	Calc.	%Drift			
7		Chloroethane	40.000	39.996	0.0	111	0.00	1.41
			AvgRF	CCRF	%Dev			
8		Trichlorofluoromethane	0.388	0.383	1.3	106	0.00	1.50
9		Ethyl Ether	0.212	0.251	-18.4	133	0.00	1.66
10		Ethanol	0.004	0.005	-25.0#	119	0.00	1.71
11		1,2-Dichlorotrifluoroetha	0.284	0.323	-13.7	122	0.00	1.75
12	C	1,1-Dichloroethene	0.394	0.441	-11.9	123	0.00	1.77
13		Freon 113	0.216	0.264	-22.2#	124	0.00	1.79
			Amount	Calc.	%Drift			
14		Carbon Disulfide	40.000	50.343	-25.9#	137	0.00	1.78
15		Iodomethane	40.000	38.558	3.6	99	0.00	1.83
			AvgRF	CCRF	%Dev			
16		Acrolein	0.058	0.038	34.5#	72	0.00	1.91
17		Allyl chloride	0.315	0.378	-20.0	126	0.00	2.00
			Amount	Calc.	%Drift			
18		Methylene Chloride	40.000	45.753	-14.4	122	0.00	2.05
19		Acetone	200.000	233.545	-16.8	123	0.00	2.06
			AvgRF	CCRF	%Dev			
20		Methyl acetate	0.287	0.338	-17.8	134	0.00	2.13
21		trans-1,2-Dichloroethene	0.395	0.445	-12.7	124	0.00	2.14
22		Hexane	0.233	0.308	-32.2#	138	0.00	2.20
23		Methyl Tert Butyl Ether	0.751	0.813	-8.3	119	0.00	2.20
			Amount	Calc.	%Drift			
24		Acetonitrile	400.000	461.475	-15.4	128	0.00	2.28

Continuing Calibration Summary

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1834-CC1829
Lab FileID: 1A46905.D

			AvgRF	CCRF	%Dev			
25		Tert Butyl Alcohol	0.054	0.061	-13.0	120	0.00	2.22
26		Di-isopropyl ether	0.806	0.964	-19.6	130	0.00	2.40
27		Chloroprene	1.106	1.239	-12.0	122	0.00	2.44
28	P	1,1-Dichloroethane	0.517	0.571	-10.4	124	0.00	2.44
29		Acrylonitrile	0.134	0.148	-10.4	120	0.00	2.44
30		ETBE	0.841	0.949	-12.8	123	0.00	2.59
31		Vinyl acetate	0.582	0.658	-13.1	121	0.00	2.57
32		cis-1,2-Dichloroethene	0.288	0.307	-6.6	119	0.00	2.73
33		2,2-Dichloropropane	0.377	0.403	-6.9	118	0.00	2.79
34		Bromochloromethane	0.136	0.142	-4.4	114	0.00	2.83
35		Cyclohexane	0.423	0.530	-25.3#	129	0.00	2.87
36	C	Chloroform	0.522	0.550	-5.4	117	0.00	2.87
37		Ethyl acetate	0.365	0.419	-14.8	126	0.00	2.92
38		Tetrahydrofuran	0.123	0.143	-16.3	131	0.00	2.95
39	S	Dibromofluoromethane	0.280	0.269	3.9	107	0.00	2.96
40		Carbon Tetrachloride	0.362	0.387	-6.9	115	0.00	2.97
41		1,1,1-Trichloroethane	0.420	0.456	-8.6	117	0.00	2.99
42		2-Butanone	0.187	0.217	-16.0	129	0.00	3.00
43		1,1-Dichloropropene	0.357	0.386	-8.1	119	0.00	3.06
44		tert-Butyl formate	0.193	0.220	-14.0	119	0.00	3.10
45		Propionitrile	0.057	0.064	-12.3	123	0.00	3.15
46		Methacrylonitrile	0.213	0.244	-14.6	125	0.00	3.17
47		Benzene	1.096	1.189	-8.5	120	0.00	3.19
48		TAME	0.738	0.818	-10.8	119	0.00	3.26
49	S	1,2-Dichloroethane-d4	0.353	0.351	0.6	110	0.00	3.24
50		1,2-Dichloroethane	0.424	0.437	-3.1	115	0.00	3.28
51		Isobutyl Alcohol	0.029	0.033	-13.8	121	0.00	3.26
52		Tert Amyl Alcohol	0.042	0.054	-28.6#	136	0.00	3.33
53		Trichloroethene	0.296	0.315	-6.4	117	0.00	3.51
54		Methylcyclohexane	0.423	0.505	-19.4	120	0.00	3.54
55		Dibromomethane	0.186	0.191	-2.7	114	0.00	3.74
56	C	1,2-Dichloropropane	0.276	0.312	-13.0	123	0.00	3.80
57		Bromodichloromethane	0.370	0.398	-7.6	117	0.00	3.84
58		Methyl methacrylate	0.280	0.336	-20.0	125	0.00	3.92
59		1,4-Dioxane	0.004	0.004	0.0	115	0.00	3.95
60		2-Chloroethyl vinyl ether	0.183	0.220	-20.2#	126	0.00	4.17
61		cis-1,3-Dichloropropene	0.407	0.458	-12.5	118	0.00	4.21
62	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00	5.36
63	S	Toluene-d8	1.334	1.362	-2.1	110	0.00	4.34
64	C	Toluene	1.553	1.738	-11.9	120	0.00	4.37
65		2-Nitropropane	0.126	0.148	-17.5	116	0.00	4.47
66		4-Methyl-2-pentanone	0.488	0.592	-21.3#	127	0.00	4.59
67		trans-1,3-Dichloropropene	0.523	0.602	-15.1	115	0.00	4.62
68		Tetrachloroethene	0.463	0.506	-9.3	113	0.00	4.64
69		Ethyl methacrylate	0.438	0.513	-17.1	115	0.00	4.74
70		1,1,2-Trichloroethane	0.299	0.331	-10.7	114	0.00	4.72
71		Dibromochloromethane	0.368	0.407	-10.6	110	0.00	4.84
72		1,3-Dichloropropane	0.558	0.620	-11.1	116	0.00	4.90
73		1,2-Dibromoethane	0.380	0.417	-9.7	113	0.00	5.00
74		3,3-Dimethyl-1-Butanol	0.064	0.078	-21.9#	127	0.00	5.13
75		2-hexanone	0.468	0.560	-19.7	125	0.00	5.14
76		1-Chlorohexane	0.548	0.557	-1.6	109	0.00	5.37
77	C	Ethylbenzene	1.689	1.908	-13.0	120	0.00	5.40
78	P	Chlorobenzene	1.034	1.119	-8.2	117	0.00	5.37
79		1,1,1,2-Tetrachloroethane	0.357	0.401	-12.3	111	0.00	5.41
80		m,p-Xylene	1.364	1.494	-9.5	114	0.00	5.51
81		o-Xylene	1.414	1.521	-7.6	113	0.00	5.81

Continuing Calibration Summary

Job Number: FC6796 **Sample:** V1A1834-CC1829
Account: HGLFLMI Hydrogeologic, Inc. **Lab FileID:** 1A46905.D
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

82		Styrene	1.034	1.175	-13.6	113	0.00	5.84
		----------	Amount	Calc.	%Drift	----------		
83	P	Bromoform	40.000	41.951	-4.9	111	0.00	5.84
		----------	AvgRF	CCRF	%Dev	----------		
84		Isopropylbenzene	1.670	1.811	-8.4	112	0.00	6.04
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	7.10
86	S	4-Bromofluorobenzene	0.848	0.855	-0.8	102	0.00	6.24
		----------	Amount	Calc.	%Drift	----------		
87		cis-1,4-Dichloro-2-butene	40.000	49.101	-22.8#	114	0.00	6.27
		----------	AvgRF	CCRF	%Dev	----------		
88		n-Propylbenzene	3.528	4.033	-14.3	112	0.00	6.35
89		Bromobenzene	0.799	0.890	-11.4	112	0.00	6.31
90	P	1,1,2,2-Tetrachloroethane	0.873	1.055	-20.8#	118	0.00	6.38
91		1,3,5-Trimethylbenzene	2.489	2.830	-13.7	111	0.00	6.51
92		2-Chlorotoluene	2.082	2.391	-14.8	115	0.00	6.46
		----------	Amount	Calc.	%Drift	----------		
93		trans-1,4-Dichloro-2-Bute	40.000	49.771	-24.4#	121	0.00	6.51
		----------	AvgRF	CCRF	%Dev	----------		
94		1,2,3-Trichloropropane	0.251	0.310	-23.5#	118	0.00	6.48
95		Cyclohexanone	0.031	0.039	-25.8#	121	0.00	6.49
96		4-Chlorotoluene	2.186	2.461	-12.6	113	0.00	6.58
97		tert-Butylbenzene	1.361	1.537	-12.9	109	0.00	6.75
98		1,2,4-Trimethylbenzene	2.420	2.744	-13.4	112	0.00	6.81
		----------	Amount	Calc.	%Drift	----------		
99		Pentachloroethane	40.000	44.716	-11.8	113	0.00	6.75
		----------	AvgRF	CCRF	%Dev	----------		
100		sec-Butylbenzene	3.058	3.454	-12.9	110	0.00	6.90
101		4-Isopropyltoluene	2.523	2.837	-12.4	109	0.00	7.01
102		1,3-Dichlorobenzene	1.500	1.620	-8.0	109	0.00	7.04
103		1,2,3-Trimethylbenzene	2.381	2.683	-12.7	111	0.00	7.15
104		1,4-Dichlorobenzene	1.512	1.637	-8.3	111	0.00	7.11
105		n-Butylbenzene	1.122	1.310	-16.8	110	0.00	7.35
		----------	Amount	Calc.	%Drift	----------		
106		Benzyl Chloride	40.000	42.936	-7.3	112	0.00	7.30
		----------	AvgRF	CCRF	%Dev	----------		
107		1,2-Dichlorobenzene	1.352	1.471	-8.8	110	0.00	7.43
		----------	Amount	Calc.	%Drift	----------		
108		1,2-Dibromo-3-Chloropropa	40.000	42.588	-6.5	110	0.00	8.01
		----------	AvgRF	CCRF	%Dev	----------		
109		Hexachlorobutadiene	0.254	0.264	-3.9	99	0.00	8.51
110		1,2,4-Trichlorobenzene	0.687	0.693	-0.9	103	0.00	8.51
111		Naphthalene	1.355	1.407	-3.8	99	0.00	8.72
112		1,2,3-Trichlorobenzene	0.503	0.513	-2.0	101	0.00	8.85

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

Continuing Calibration Summary

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1834-CC1829
Lab FileID: 1A46905.D

1A46346.D V1A_05-23-2023.M Mon Jun 12 09:50:01 2023

Continuing Calibration Summary

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1834-ECC1829
Lab FileID: 1A46931.D

Evaluate Continuing Calibration Report

Data File : C:\Documents and Set...la complete\1A46931.d Vial: 28
Acq On : 12 Jun 2023 8:08 pm Operator: jeniferw
Sample : ECC1829-5 Inst : MSVOA17
Misc : MS54189,V1A1834,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\MET...V1A_05-23-2023.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed May 24 11:40:15 2023
Response via : Multiple Level Calibration

Min. RRF : 0.000 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	Fluorobenzene	1.000	1.000	0.0	111	0.00	3.41
2	Dichlorodifluoromethane	0.188	0.244	-29.8	134	0.00	1.03
		Amount	Calc.	%Drift			
3	Chloromethane	40.000	62.865	-57.2#	167	0.00	1.13
		AvgRF	CCRF	%Dev			
4	1,3-butadiene	0.313	0.412	-31.6	146	0.00	1.19
5	Vinyl Chloride	0.266	0.379	-42.5	159	0.00	1.17
6	Bromomethane	0.100	0.151	-51.0#	175	0.00	1.35
		Amount	Calc.	%Drift			
7	Chloroethane	40.000	64.542	-61.4#	153	0.00	1.41
		AvgRF	CCRF	%Dev			
8	Trichlorofluoromethane	0.388	0.495	-27.6	137	0.00	1.50
9	Ethyl Ether	0.212	0.334	-57.5#	177	0.00	1.66
10	Ethanol	0.004	0.005	-25.0	107	0.00	1.71
11	1,2-Dichlorotrifluoroetha	0.284	0.415	-46.1	156	0.00	1.75
12	1,1-Dichloroethene	0.394	0.568	-44.2	159	0.00	1.76
13	Freon 113	0.216	0.330	-52.8#	155	0.00	1.79
		Amount	Calc.	%Drift			
14	Carbon Disulfide	40.000	63.803	-59.5#	174	0.00	1.78
15	Iodomethane	40.000	60.551	-51.4#	174	0.00	1.83
		AvgRF	CCRF	%Dev			
16	Acrolein	0.058	0.091	-56.9#	175	0.00	1.91
17	Allyl chloride	0.315	0.494	-56.8#	165	0.00	2.00
		Amount	Calc.	%Drift			
18	Methylene Chloride	40.000	66.618	-66.5#	178	0.00	2.05
19	Acetone	200.000	299.820	-49.9	159	0.00	2.06
		AvgRF	CCRF	%Dev			
20	Methyl acetate	0.287	0.488	-70.0#	194	0.00	2.13
21	trans-1,2-Dichloroethene	0.395	0.573	-45.1	160	0.00	2.14
22	Hexane	0.233	0.367	-57.5#	165	0.00	2.20
23	Methyl Tert Butyl Ether	0.751	1.110	-47.8	163	0.00	2.20
		Amount	Calc.	%Drift			
24	Acetonitrile	400.000	533.736	-33.4	149	0.00	2.27

Continuing Calibration Summary

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1834-ECC1829
Lab FileID: 1A46931.D

			AvgRF	CCRF	%Dev			
25		Tert Butyl Alcohol	0.054	0.069	-27.8	135	0.00	2.22
26		Di-isopropyl ether	0.806	1.299	-61.2#	175	0.00	2.40
27		Chloroprene	1.106	1.609	-45.5	159	0.00	2.44
28		1,1-Dichloroethane	0.517	0.738	-42.7	160	0.00	2.44
29		Acrylonitrile	0.134	0.193	-44.0	158	0.00	2.44
30		ETBE	0.841	1.294	-53.9#	168	0.00	2.58
31		Vinyl acetate	0.582	0.779	-33.8	143	0.00	2.57
32		cis-1,2-Dichloroethene	0.288	0.399	-38.5	155	0.00	2.73
33		2,2-Dichloropropane	0.377	0.486	-28.9	142	0.00	2.79
34		Bromochloromethane	0.136	0.192	-41.2	155	0.00	2.83
35		Cyclohexane	0.423	0.669	-58.2#	162	0.00	2.87
36		Chloroform	0.522	0.723	-38.5	154	0.00	2.87
37		Ethyl acetate	0.365	0.524	-43.6	158	0.00	2.92
38		Tetrahydrofuran	0.123	0.186	-51.2#	171	0.00	2.95
39	S	Dibromofluoromethane	0.280	0.272	2.9	108	0.00	2.96
40		Carbon Tetrachloride	0.362	0.502	-38.7	150	0.00	2.97
41		1,1,1-Trichloroethane	0.420	0.587	-39.8	150	0.00	2.99
42		2-Butanone	0.187	0.278	-48.7	166	0.00	3.00
43		1,1-Dichloropropene	0.357	0.496	-38.9	154	0.00	3.06
44		tert-Butyl formate	0.193	0.283	-46.6	153	0.00	3.10
45		Propionitrile	0.057	0.082	-43.9	156	0.00	3.15
46		Methacrylonitrile	0.213	0.321	-50.7#	165	0.00	3.17
47		Benzene	1.096	1.534	-40.0	155	0.00	3.19
48		TAME	0.738	1.097	-48.6	159	0.00	3.26
49	S	1,2-Dichloroethane-d4	0.353	0.354	-0.3	110	0.00	3.24
50		1,2-Dichloroethane	0.424	0.576	-35.8	152	0.00	3.28
51		Isobutyl Alcohol	0.029	0.041	-41.4	152	0.00	3.26
52		Tert Amyl Alcohol	0.042	0.059	-40.5	149	0.00	3.33
53		Trichloroethene	0.296	0.410	-38.5	153	0.00	3.51
54		Methylcyclohexane	0.423	0.626	-48.0	149	0.00	3.54
55		Dibromomethane	0.186	0.252	-35.5	151	0.00	3.74
56		1,2-Dichloropropane	0.276	0.407	-47.5	160	0.00	3.80
57		Bromodichloromethane	0.370	0.519	-40.3	152	0.00	3.84
58		Methyl methacrylate	0.280	0.443	-58.2#	165	0.00	3.92
59		1,4-Dioxane	0.004	0.004	0.0	99	0.00	3.94
60		2-Chloroethyl vinyl ether	0.183	0.268	-46.4	154	0.00	4.17
61		cis-1,3-Dichloropropene	0.407	0.596	-46.4	154	0.00	4.21
62	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00	5.36
63	S	Toluene-d8	1.334	1.352	-1.3	110	0.00	4.34
64		Toluene	1.553	2.242	-44.4	155	0.00	4.37
65		2-Nitropropane	0.126	0.196	-55.6#	154	0.00	4.47
66		4-Methyl-2-pentanone	0.488	0.800	-63.9#	173	0.00	4.59
67		trans-1,3-Dichloropropene	0.523	0.783	-49.7	150	0.00	4.62
68		Tetrachloroethene	0.463	0.671	-44.9	151	0.00	4.64
69		Ethyl methacrylate	0.438	0.672	-53.4#	151	0.00	4.74
70		1,1,2-Trichloroethane	0.299	0.445	-48.8	154	0.00	4.72
71		Dibromochloromethane	0.368	0.529	-43.8	143	0.00	4.84
72		1,3-Dichloropropane	0.558	0.824	-47.7	155	0.00	4.90
73		1,2-Dibromoethane	0.380	0.562	-47.9	153	0.00	5.00
74		3,3-Dimethyl-1-Butanol	0.064	0.096	-50.0	157	0.00	5.13
75		2-hexanone	0.468	0.728	-55.6#	163	0.00	5.14
76		1-Chlorohexane	0.548	0.723	-31.9	142	0.00	5.37
77		Ethylbenzene	1.689	2.424	-43.5	154	0.00	5.40
78		Chlorobenzene	1.034	1.444	-39.7	152	0.00	5.37
79		1,1,1,2-Tetrachloroethane	0.357	0.522	-46.2	146	0.00	5.41
80		m,p-Xylene	1.364	1.926	-41.2	148	0.00	5.51
81		o-Xylene	1.414	1.985	-40.4	148	0.00	5.81

Continuing Calibration Summary

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1834-ECC1829
Lab FileID: 1A46931.D

82		Styrene	1.034	1.546	-49.5	149	0.00	5.84
		----------	Amount	Calc.	%Drift	----------		
83		Bromoform	40.000	53.589	-34.0	143	0.00	5.84
		----------	AvgRF	CCRF	%Dev	----------		
84		Isopropylbenzene	1.670	2.338	-40.0	146	0.00	6.04
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	7.10
86	S	4-Bromofluorobenzene	0.848	0.836	1.4	100	0.00	6.24
		----------	Amount	Calc.	%Drift	----------		
87		cis-1,4-Dichloro-2-butene	40.000	70.185	-75.5#	185	0.00	6.27
		----------	AvgRF	CCRF	%Dev	----------		
88		n-Propylbenzene	3.528	5.250	-48.8	146	0.00	6.35
89		Bromobenzene	0.799	1.161	-45.3	147	0.00	6.31
90		1,1,2,2-Tetrachloroethane	0.873	1.409	-61.4#	158	0.00	6.38
91		1,3,5-Trimethylbenzene	2.489	3.716	-49.3	147	0.00	6.51
92		2-Chlorotoluene	2.082	3.063	-47.1	148	0.00	6.46
		----------	Amount	Calc.	%Drift	----------		
93		trans-1,4-Dichloro-2-Bute	40.000	68.743	-71.9#	183	0.00	6.51
		----------	AvgRF	CCRF	%Dev	----------		
94		1,2,3-Trichloropropane	0.251	0.405	-61.4#	155	0.00	6.48
95		Cyclohexanone	0.031	0.040	-29.0	123	0.00	6.49
96		4-Chlorotoluene	2.186	3.206	-46.7	147	0.00	6.58
97		tert-Butylbenzene	1.361	2.050	-50.6#	145	0.00	6.75
98		1,2,4-Trimethylbenzene	2.420	3.608	-49.1	148	0.00	6.81
		----------	Amount	Calc.	%Drift	----------		
99		Pentachloroethane	40.000	55.331	-38.3	140	0.00	6.75
		----------	AvgRF	CCRF	%Dev	----------		
100		sec-Butylbenzene	3.058	4.533	-48.2	145	0.00	6.90
101		4-Isopropyltoluene	2.523	3.698	-46.6	143	0.00	7.01
102		1,3-Dichlorobenzene	1.500	2.112	-40.8	143	0.00	7.04
103		1,2,3-Trimethylbenzene	2.381	3.525	-48.0	147	0.00	7.15
104		1,4-Dichlorobenzene	1.512	2.110	-39.6	144	0.00	7.11
105		n-Butylbenzene	1.122	1.725	-53.7#	146	0.00	7.35
		----------	Amount	Calc.	%Drift	----------		
106		Benzyl Chloride	40.000	54.060	-35.2	141	0.00	7.30
		----------	AvgRF	CCRF	%Dev	----------		
107		1,2-Dichlorobenzene	1.352	1.904	-40.8	143	0.00	7.43
		----------	Amount	Calc.	%Drift	----------		
108		1,2-Dibromo-3-Chloropropa	40.000	55.659	-39.1	144	0.00	8.01
		----------	AvgRF	CCRF	%Dev	----------		
109		Hexachlorobutadiene	0.254	0.368	-44.9	139	0.00	8.52
110		1,2,4-Trichlorobenzene	0.687	0.934	-36.0	139	0.00	8.51
111		Naphthalene	1.355	2.014	-48.6	143	0.00	8.72
112		1,2,3-Trichlorobenzene	0.503	0.728	-44.7	144	0.00	8.84

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

Continuing Calibration Summary

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Sample: V1A1834-ECC1829
Lab FileID: 1A46931.D

1A46346.D V1A_05-23-2023.M Tue Jun 13 09:08:23 2023

Run Sequence Report

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V1A1829	**Method:** SW846 8260D	**Instrument ID:** GCMS1A

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V1A1829-BFB	1A46336.D	05/23/23 09:57	n/a	BFB Tune
V1A1829-IC1829	1A46338.D	05/23/23 10:34	n/a	Initial cal 1
V1A1829-IC1829	1A46340.D	05/23/23 11:06	n/a	Initial cal 2
V1A1829-IC1829	1A46342.D	05/23/23 11:37	n/a	Initial cal 3
V1A1829-IC1829	1A46344.D	05/23/23 12:09	n/a	Initial cal 4
V1A1829-ICC1829	1A46346.D	05/23/23 12:41	n/a	Initial cal 5
V1A1829-IC1829	1A46348.D	05/23/23 13:13	n/a	Initial cal 6
V1A1829-IC1829	1A46350.D	05/23/23 13:45	n/a	Initial cal 7
V1A1829-ICV1829	1A46354.D	05/23/23 15:17	n/a	Initial cal verification 5
V1A1829-ICV1829	1A46356.D	05/23/23 15:48	n/a	Initial cal verification 4

Run Sequence Report

Job Number: FC6796
Account: HGLFLMI Hydrogeologic, Inc.
Project: FSRA-FDSA/PSBA NS1002; KSC, FL

Run ID: V1A1834	**Method:** SW846 8260D	**Instrument ID:** GCMS1A

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V1A1834-BFB	1A46904.D	06/12/23 09:12	n/a	BFB Tune
V1A1834-CC1829	1A46905.D	06/12/23 09:36	n/a	Continuing cal 5
V1A1834-BS	1A46906.D	06/12/23 10:00	n/a	Blank Spike
V1A1834-MB	1A46908.D	06/12/23 10:49	n/a	Method Blank
ZZZZZZ	1A46909.D	06/12/23 11:13	n/a	(unrelated sample)
ZZZZZZ	1A46910.D	06/12/23 11:38	n/a	(unrelated sample)
FC6740-10	1A46911.D	06/12/23 12:02	n/a	(used for QC only; not part of job FC6796)
ZZZZZZ	1A46912.D	06/12/23 12:27	n/a	(unrelated sample)
ZZZZZZ	1A46913.D	06/12/23 12:51	n/a	(unrelated sample)
ZZZZZZ	1A46914.D	06/12/23 13:15	n/a	(unrelated sample)
ZZZZZZ	1A46915.D	06/12/23 13:40	n/a	(unrelated sample)
ZZZZZZ	1A46916.D	06/12/23 14:04	n/a	(unrelated sample)
ZZZZZZ	1A46917.D	06/12/23 14:28	n/a	(unrelated sample)
ZZZZZZ	1A46918.D	06/12/23 14:52	n/a	(unrelated sample)
ZZZZZZ	1A46920.D	06/12/23 15:41	n/a	(unrelated sample)
ZZZZZZ	1A46921.D	06/12/23 16:05	n/a	(unrelated sample)
ZZZZZZ	1A46922.D	06/12/23 16:29	n/a	(unrelated sample)
ZZZZZZ	1A46923.D	06/12/23 16:54	n/a	(unrelated sample)
ZZZZZZ	1A46924.D	06/12/23 17:18	n/a	(unrelated sample)
ZZZZZZ	1A46925.D	06/12/23 17:42	n/a	(unrelated sample)
ZZZZZZ	1A46926.D	06/12/23 18:06	n/a	(unrelated sample)
FC6796-2	1A46927.D	06/12/23 18:31	n/a	FDSA-TB0001-000.0-20230608
FC6796-1	1A46928.D	06/12/23 18:55	n/a	FDSA-MW0061-007.0-20230608
FC6740-10MS	1A46929.D	06/12/23 19:19	n/a	Matrix Spike
FC6740-10MSD	1A46930.D	06/12/23 19:43	n/a	Matrix Spike Duplicate
V1A1834-ECC1829	1A46931.D	06/12/23 20:08	n/a	Ending cal 5

sample_id	cas	parameter	fraction	final_result	result_error	final_qualifier	reason_code	units	validation_level	sdg	laboratory_id	laboratory_name	laboratory_cas	laboratory_parameter	laboratory_result	laboratory_method	laboratory_unit	laboratory_qualifier	lab_received_date	mdl	crdl_crql	idl	preparation_method	preparation_date	analysis_method	analysis_date	leachate_method	leachate_date	batch_no	run_number	dilution_factor	pct_moisture	basis	result_type	result_note	result_fld1	result_fld2
071023BLK1	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	071023BLK1	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	TRG			
071023BLK1	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	071023BLK1	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	TRG			
071023BLK1	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	071023BLK1	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	TRG			
071023BLK1	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	071023BLK1	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	TRG			
071023BLK1	SURR004	TOLUENE-D8 (SURR)	MBLV	99.2				%	C	HGL041023	071023BLK1	ALF	SURR004	d8-TOLUENE	99.2	8260D	%		19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	SUR			
071023CCV1	75-01-4	VINYL CHLORIDE	MBLV	86.4				%	C	HGL041023	071023CCV1	ALF	75-01-4	VINYL CHLORIDE	86.4	8260D	%		19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	TRG			
071023CCV1	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	103.7				%	C	HGL041023	071023CCV1	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	103.7	8260D	%		19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	TRG			
071023CCV1	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	112.4				%	C	HGL041023	071023CCV1	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	112.4	8260D	%		19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	TRG			
071023CCV1	79-01-6	TRICHLOROETHENE	MBLV	108.9				%	C	HGL041023	071023CCV1	ALF	79-01-6	TRICHLOROETHENE	108.9	8260D	%		19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	TRG			
071023CCV1	SURR004	TOLUENE-D8 (SURR)	MBLV	95.7				%	C	HGL041023	071023CCV1	ALF	SURR004	d8-TOLUENE	95.7	8260D	%		19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	SUR			
PSBA-DPT0359-035.0-20230710	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W001	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0359-035.0-20230710	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W001	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0359-035.0-20230710	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W001	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0359-035.0-20230710	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W001	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0359-035.0-20230710	SURR004	TOLUENE-D8 (SURR)	MBLV	91.8				%	C	HGL041023	HGL071023-W001	ALF	SURR004	d8-TOLUENE	91.8	8260D	%		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	SUR			
PSBA-DPT0359-045.0-20230710	75-01-4	VINYL CHLORIDE	MBLV	4				UG/L	C	HGL041023	HGL071023-W002	ALF	75-01-4	VINYL CHLORIDE	4	8260D	UG/L		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0359-045.0-20230710	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W002	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0359-045.0-20230710	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W002	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0359-045.0-20230710	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W002	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0359-045.0-20230710	SURR004	TOLUENE-D8 (SURR)	MBLV	94.6				%	C	HGL041023	HGL071023-W002	ALF	SURR004	d8-TOLUENE	94.6	8260D	%		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	SUR			
PSBA-DPT0359-045.0-20230710	75-01-4	VINYL CHLORIDE	OV	3				UG/L	C	HGL041023	HGL071023-W002DUP	ALF	75-01-4	VINYL CHLORIDE	3	8260D	UG/L		20230710	-99	1	N/A	5030	20230710	8260D	20230710				2	1	100	W	DUP			
PSBA-DPT0359-045.0-20230710	156-60-5	TRANS-1,2-DICHLOROETHENE	OV	1		U		UG/L	C	HGL041023	HGL071023-W002DUP	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				2	1	100	W	DUP			
PSBA-DPT0359-045.0-20230710	156-59-2	CIS-1,2-DICHLOROETHENE	OV	1		U		UG/L	C	HGL041023	HGL071023-W002DUP	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				2	1	100	W	DUP			
PSBA-DPT0359-045.0-20230710	79-01-6	TRICHLOROETHENE	OV	1		U		UG/L	C	HGL041023	HGL071023-W002DUP	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				2	1	100	W	DUP			
PSBA-DPT0359-045.0-20230710	SURR004	TOLUENE-D8 (SURR)	OV	95.6				%	C	HGL041023	HGL071023-W002DUP	ALF	SURR004	d8-TOLUENE	95.6	8260D	%		20230710	-99	1	N/A	5030	20230710	8260D	20230710				2	1	100	W	SUR			
PSBA-DPT0359-055.0-20230710	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W003	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0359-055.0-20230710	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W003	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0359-055.0-20230710	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W003	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0359-055.0-20230710	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W003	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0359-055.0-20230710	SURR004	TOLUENE-D8 (SURR)	MBLV	94.8				%	C	HGL041023	HGL071023-W003	ALF	SURR004	d8-TOLUENE	94.8	8260D	%		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	SUR			
PSBA-DPT0359-055.0-20230710	75-01-4	VINYL CHLORIDE	OV	86.0				%	C	HGL041023	HGL071023-W003MS	ALF	75-01-4	VINYL CHLORIDE	86.0	8260D	%		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	SPK			
PSBA-DPT0359-055.0-20230710	156-60-5	TRANS-1,2-DICHLOROETHENE	OV	102.1				%	C	HGL041023	HGL071023-W003MS	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	102.1	8260D	%		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	SPK			
PSBA-DPT0359-055.0-20230710	156-59-2	CIS-1,2-DICHLOROETHENE	OV	116.6				%	C	HGL041023	HGL071023-W003MS	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	116.6	8260D	%		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	SPK			
PSBA-DPT0359-055.0-20230710	79-01-6	TRICHLOROETHENE	OV	108.1				%	C	HGL041023	HGL071023-W003MS	ALF	79-01-6	TRICHLOROETHENE	108.1	8260D	%		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	SPK			
PSBA-DPT0359-055.0-20230710	SURR004	TOLUENE-D8 (SURR)	OV	92.3				%	C	HGL041023	HGL071023-W003MS	ALF	SURR004	d8-TOLUENE	92.3	8260D	%		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	SUR			
PSBA-DPT0360-035.0-20230710	75-01-4	VINYL CHLORIDE	MBLV	9				UG/L	C	HGL041023	HGL071023-W004	ALF	75-01-4	VINYL CHLORIDE	9	8260D	UG/L		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0360-035.0-20230710	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W004	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0360-035.0-20230710	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1				UG/L	C	HGL041023	HGL071023-W004	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0360-035.0-20230710	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W004	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0360-035.0-20230710	SURR004	TOLUENE-D8 (SURR)	MBLV	94.8				%	C	HGL041023	HGL071023-W004	ALF	SURR004	d8-TOLUENE	94.8	8260D	%		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	SUR			
PSBA-DPT0360-045.0-20230710	75-01-4	VINYL CHLORIDE	MBLV	1				UG/L	C	HGL041023	HGL071023-W005	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0360-045.0-20230710	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W005	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0360-045.0-20230710	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W005	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0360-045.0-20230710	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W005	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0360-045.0-20230710	SURR004	TOLUENE-D8 (SURR)	MBLV	96.8				UG/L	C	HGL041023	HGL071023-W005	ALF	SURR004	d8-TOLUENE	96.8	8260D	UG/L		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	SUR			
PSBA-DPT0360-055.0-20230710	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W006	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0360-055.0-20230710	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W006	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0360-055.0-20230710	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W006	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0360-055.0-20230710	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W006	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0360-055.0-20230710	SURR004	TOLUENE-D8 (SURR)	MBLV	94.7				%	C	HGL041023	HGL071023-W006	ALF	SURR004	d8-TOLUENE	94.7	8260D	%		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	SUR			
PSBA-DPT0361-035.0-20230710	75-01-4	VINYL CHLORIDE	MBLV	3				UG/L	C	HGL041023	HGL071023-W007	ALF	75-01-4	VINYL CHLORIDE	3	8260D	UG/L		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0361-035.0-20230710	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W007	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0361-035.0-20230710	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W007	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0361-035.0-20230710	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W007	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0361-035.0-20230710	SURR004	TOLUENE-D8 (SURR)	MBLV	96.0				%	C	HGL041023	HGL071023-W007	ALF	SURR004	d8-TOLUENE	96.0	8260D	%		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	SUR			
PSBA-DPT0361-045.0-20230710	75-01-4	VINYL CHLORIDE	MBLV	13				UG/L	C	HGL041023	HGL071023-W008	ALF	75-01-4	VINYL CHLORIDE	13	8260D	UG/L		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0361-045.0-20230710	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W008	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0361-045.0-20230710	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	2				UG/L	C	HGL041023	HGL071023-W008	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	2	8260D	UG/L		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0361-045.0-20230710	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W008	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0361-045.0-20230710	SURR004	TOLUENE-D8 (SURR)	MBLV	91.6				%	C	HGL041023	HGL071023-W008	ALF	SURR004	d8-TOLUENE	91.6	8260D	%		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	SUR			
PSBA-DPT0361-055.0-20230710	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W009	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0361-055.0-20230710	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W009	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0361-055.0-20230710	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W009	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0361-055.0-20230710	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W009	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0361-055.0-20230710	SURR004	TOLUENE-D8 (SURR)	MBLV	93.5				%	C	HGL041023	HGL071023-W009	ALF	SURR004	d8-TOLUENE	93.5	8260D	%		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	SUR			
PSBA-DPT0362-035.0-20230710	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W010	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0362-035.0-20230710	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W010	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0362-035.0-20230710	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W010	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0362-035.0-20230710	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W010	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0362-035.0-20230710	SURR004	TOLUENE-D8 (SURR)	MBLV	95.7				%	C	HGL041023	HGL071023-W010	ALF	SURR004	d8-TOLUENE	95.7	8260D	%		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	SUR			
PSBA-DPT0362-045.0-20230710	75-01-4	VINYL CHLORIDE	MBLV	10				UG/L	C	HGL041023	HGL071023-W011	ALF	75-01-4	VINYL CHLORIDE	10	8260D	UG/L		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0362-045.0-20230710	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W011	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0362-045.0-20230710	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	3				UG/L	C	HGL041023	HGL071023-W011	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	3	8260D	UG/L		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0362-045.0-20230710	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W011	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0362-045.0-20230710	SURR004	TOLUENE-D8 (SURR)	MBLV	94.2				%	C	HGL041023	HGL071023-W011	ALF	SURR004	d8-TOLUENE	94.2	8260D	%		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	SUR			
PSBA-DPT0362-055.0-20230710	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W012	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0362-055.0-20230710	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W012	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0362-055.0-20230710	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W012	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0362-055.0-20230710	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W012	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	TRG			
PSBA-DPT0362-055.0-20230710	SURR004	TOLUENE-D8 (SURR)	MBLV	95.0				%	C	HGL041023	HGL071023-W012	ALF	SURR004	d8-TOLUENE	95.0	8260D	%		20230710	-99	1	N/A	5030	20230710	8260D	20230710				1	1	100	W	SUR			
071123BLK1	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	071123BLK1	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	TRG			
071123BLK1	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	071123BLK1	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	TRG			
071123BLK1	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	071123BLK1	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	TRG			
071123BLK1	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	071123BLK1	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	TRG			
071123BLK1	SURR004	TOLUENE-D8 (SURR)	MBLV	97.5				%	C	HGL041023	071123BLK1	ALF	SURR004	d8-TOLUENE	97.5	8260D	%		19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	SUR			
071123CCV1	75-01-4	VINYL CHLORIDE	MBLV	85.1				%	C	HGL041023	071123CCV1	ALF	75-01-4	VINYL CHLORIDE	85.1	8260D	%		19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	TRG			
071123CCV1	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	104.2				%	C	HGL041023	071123CCV1	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	104.2	8260D	%		19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	TRG			
071123CCV1	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	114.8				%	C	HGL041023	071123CCV1	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	114.8	8260D	%		19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	TRG			
071123CCV1	79-01-6	TRICHLOROETHENE	MBLV	114.9				%	C	HGL041023	071123CCV1	ALF	79-01-6	TRICHLOROETHENE	114.9	8260D	%		19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	TRG			
071123CCV1	SURR004	TOLUENE-D8 (SURR)	MBLV	96.6				%	C	HGL041023	071123CCV1	ALF	SURR004	d8-TOLUENE	96.6	8260D	%		19000101	-99	1	N/A	5030	19000101	8260D	19000101				1	1	100	W	SUR			
PSBA-DPT0363-035.0-20230711	75-01-4	VINYL CHLORIDE	MBLV	2				UG/L	C	HGL041023	HGL071023-W013	ALF	75-01-4	VINYL CHLORIDE	2	8260D	UG/L		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0363-035.0-20230711	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W013	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0363-035.0-20230711	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	6				UG/L	C	HGL041023	HGL071023-W013	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	6	8260D	UG/L		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0363-035.0-20230711	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W013	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0363-035.0-20230711	SURR004	TOLUENE-D8 (SURR)	MBLV	92.9				%	C	HGL041023	HGL071023-W013	ALF	SURR004	d8-TOLUENE	92.9	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SUR			
PSBA-DPT0363-035.0-20230711	75-01-4	VINYL CHLORIDE	OV	2				UG/L	C	HGL041023	HGL071023-W013DUP	ALF	75-01-4	VINYL CHLORIDE	2	8260D	UG/L		20230711	-99	1	N/A	5030	20230711	8260D	20230711				2	1	100	W	DUP			
PSBA-DPT0363-035.0-20230711	156-60-5	TRANS-1,2-DICHLOROETHENE	OV	1		U		UG/L	C	HGL041023	HGL071023-W013DUP	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				2	1	100	W	DUP			
PSBA-DPT0363-035.0-20230711	156-59-2	CIS-1,2-DICHLOROETHENE	OV	6				UG/L	C	HGL041023	HGL071023-W013DUP	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	6	8260D	UG/L		20230711	-99	1	N/A	5030	20230711	8260D	20230711				2	1	100	W	DUP			
PSBA-DPT0363-035.0-20230711	79-01-6	TRICHLOROETHENE	OV	1		U		UG/L	C	HGL041023	HGL071023-W013DUP	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				2	1	100	W	DUP			
PSBA-DPT0363-035.0-20230711	SURR004	TOLUENE-D8 (SURR)	OV	95.8				%	C	HGL041023	HGL071023-W013DUP	ALF	SURR004	d8-TOLUENE	95.8	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				2	1	100	W	SUR			
PSBA-DPT0363-045.0-20230711	75-01-4	VINYL CHLORIDE	MBLV	1				UG/L	C	HGL041023	HGL071023-W014	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0363-045.0-20230711	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W014	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0363-045.0-20230711	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1				UG/L	C	HGL041023	HGL071023-W014	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0363-045.0-20230711	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W014	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0363-045.0-20230711	SURR004	TOLUENE-D8 (SURR)	MBLV	95.6				%	C	HGL041023	HGL071023-W014	ALF	SURR004	d8-TOLUENE	95.6	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SUR			
PSBA-DPT0363-055.0-20230711	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W015	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0363-055.0-20230711	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W015	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0363-055.0-20230711	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W015	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0363-055.0-20230711	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W015	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0363-055.0-20230711	SURR004	TOLUENE-D8 (SURR)	MBLV	95.6				%	C	HGL041023	HGL071023-W015	ALF	SURR004	d8-TOLUENE	95.6	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SUR			
PSBA-DPT0363-055.0-20230711	75-01-4	VINYL CHLORIDE	OV	90.7				%	C	HGL041023	HGL071023-W015MS	ALF	75-01-4	VINYL CHLORIDE	90.7	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SPK			
PSBA-DPT0363-055.0-20230711	156-60-5	TRANS-1,2-DICHLOROETHENE	OV	103.8				%	C	HGL041023	HGL071023-W015MS	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	103.8	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SPK			
PSBA-DPT0363-055.0-20230711	156-59-2	CIS-1,2-DICHLOROETHENE	OV	119.4				%	C	HGL041023	HGL071023-W015MS	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	119.4	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SPK			
PSBA-DPT0363-055.0-20230711	79-01-6	TRICHLOROETHENE	OV	117.5				%	C	HGL041023	HGL071023-W015MS	ALF	79-01-6	TRICHLOROETHENE	117.5	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SPK			
PSBA-DPT0363-055.0-20230711	SURR004	TOLUENE-D8 (SURR)	OV	93.5				%	C	HGL041023	HGL071023-W015MS	ALF	SURR004	d8-TOLUENE	93.5	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SUR			
PSBA-DPT0364-035.0-20230711	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W016	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0364-035.0-20230711	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W016	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0364-035.0-20230711	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W016	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0364-035.0-20230711	79-01-6	TRICHLOROETHENE	MBLV	19				UG/L	C	HGL041023	HGL071023-W016	ALF	79-01-6	TRICHLOROETHENE	19	8260D	UG/L		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0364-035.0-20230711	SURR004	TOLUENE-D8 (SURR)	MBLV	94.5				%	C	HGL041023	HGL071023-W016	ALF	SURR004	d8-TOLUENE	94.5	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SUR			
PSBA-DPT0364-045.0-20230711	75-01-4	VINYL CHLORIDE	MBLV	23				UG/L	C	HGL041023	HGL071023-W017	ALF	75-01-4	VINYL CHLORIDE	23	8260D	UG/L		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0364-045.0-20230711	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W017	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0364-045.0-20230711	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	4				UG/L	C	HGL041023	HGL071023-W017	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	4	8260D	UG/L		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0364-045.0-20230711	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W017	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0364-045.0-20230711	SURR004	TOLUENE-D8 (SURR)	MBLV	94.7				%	C	HGL041023	HGL071023-W017	ALF	SURR004	d8-TOLUENE	94.7	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SUR			
PSBA-DPT0364-055.0-20230711	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W018	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0364-055.0-20230711	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W018	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0364-055.0-20230711	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W018	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0364-055.0-20230711	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W018	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0364-055.0-20230711	SURR004	TOLUENE-D8 (SURR)	MBLV	94.9				%	C	HGL041023	HGL071023-W018	ALF	SURR004	d8-TOLUENE	94.9	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SUR			
PSBA-DPT0365-035.0-20230711	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W019	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0365-035.0-20230711	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W019	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0365-035.0-20230711	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W019	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0365-035.0-20230711	79-01-6	TRICHLOROETHENE	MBLV	48				UG/L	C	HGL041023	HGL071023-W019	ALF	79-01-6	TRICHLOROETHENE	48	8260D	UG/L		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0365-035.0-20230711	SURR004	TOLUENE-D8 (SURR)	MBLV	95.7				UG/L	C	HGL041023	HGL071023-W019	ALF	SURR004	d8-TOLUENE	95.7	8260D	UG/L		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SUR			
PSBA-DPT0365-045.0-20230711	75-01-4	VINYL CHLORIDE	MBLV	50				UG/L	C	HGL041023	HGL071023-W020	ALF	75-01-4	VINYL CHLORIDE	50	8260D	UG/L		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0365-045.0-20230711	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W020	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0365-045.0-20230711	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	4				UG/L	C	HGL041023	HGL071023-W020	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	4	8260D	UG/L		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0365-045.0-20230711	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W020	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0365-045.0-20230711	SURR004	TOLUENE-D8 (SURR)	MBLV	92.9				%	C	HGL041023	HGL071023-W020	ALF	SURR004	d8-TOLUENE	92.9	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SUR			
PSBA-DPT0365-055.0-20230711	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W021	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0365-055.0-20230711	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W021	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0365-055.0-20230711	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W021	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0365-055.0-20230711	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W021	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0365-055.0-20230711	SURR004	TOLUENE-D8 (SURR)	MBLV	94.0				%	C	HGL041023	HGL071023-W021	ALF	SURR004	d8-TOLUENE	94.0	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SUR			
PSBA-DPT0366-035.0-20230711	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W022	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0366-035.0-20230711	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W022	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0366-035.0-20230711	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W022	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0366-035.0-20230711	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W022	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0366-035.0-20230711	SURR004	TOLUENE-D8 (SURR)	MBLV	93.3				%	C	HGL041023	HGL071023-W022	ALF	SURR004	d8-TOLUENE	93.3	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SUR			
PSBA-DPT0366-045.0-20230711	75-01-4	VINYL CHLORIDE	MBLV	86				UG/L	C	HGL041023	HGL071023-W023	ALF	75-01-4	VINYL CHLORIDE	86	8260D	UG/L		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0366-045.0-20230711	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W023	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0366-045.0-20230711	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	3				UG/L	C	HGL041023	HGL071023-W023	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	3	8260D	UG/L		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0366-045.0-20230711	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W023	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0366-045.0-20230711	SURR004	TOLUENE-D8 (SURR)	MBLV	95.4				%	C	HGL041023	HGL071023-W023	ALF	SURR004	d8-TOLUENE	95.4	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SUR			
PSBA-DPT0366-055.0-20230711	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W024	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0366-055.0-20230711	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W024	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0366-055.0-20230711	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W024	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0366-055.0-20230711	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W024	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0366-055.0-20230711	SURR004	TOLUENE-D8 (SURR)	MBLV	95.8				%	C	HGL041023	HGL071023-W024	ALF	SURR004	d8-TOLUENE	95.8	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SUR			
PSBA-DPT0365-025.0-20230711	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W025	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0365-025.0-20230711	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W025	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0365-025.0-20230711	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W025	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0365-025.0-20230711	79-01-6	TRICHLOROETHENE	MBLV	7				UG/L	C	HGL041023	HGL071023-W025	ALF	79-01-6	TRICHLOROETHENE	7	8260D	UG/L		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0365-025.0-20230711	SURR004	TOLUENE-D8 (SURR)	MBLV	96.3				%	C	HGL041023	HGL071023-W025	ALF	SURR004	d8-TOLUENE	96.3	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SUR			
PSBA-DPT0360-025.0-20230711	75-01-4	VINYL CHLORIDE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W026	ALF	75-01-4	VINYL CHLORIDE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0360-025.0-20230711	156-60-5	TRANS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W026	ALF	156-60-5	TRANS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0360-025.0-20230711	156-59-2	CIS-1,2-DICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W026	ALF	156-59-2	CIS-1,2-DICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0360-025.0-20230711	79-01-6	TRICHLOROETHENE	MBLV	1		U		UG/L	C	HGL041023	HGL071023-W026	ALF	79-01-6	TRICHLOROETHENE	1	8260D	UG/L	U	20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	TRG			
PSBA-DPT0360-025.0-20230711	SURR004	TOLUENE-D8 (SURR)	MBLV	93.8				%	C	HGL041023	HGL071023-W026	ALF	SURR004	d8-TOLUENE	93.8	8260D	%		20230711	-99	1	N/A	5030	20230711	8260D	20230711				1	1	100	W	SUR			

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APPENDIX C

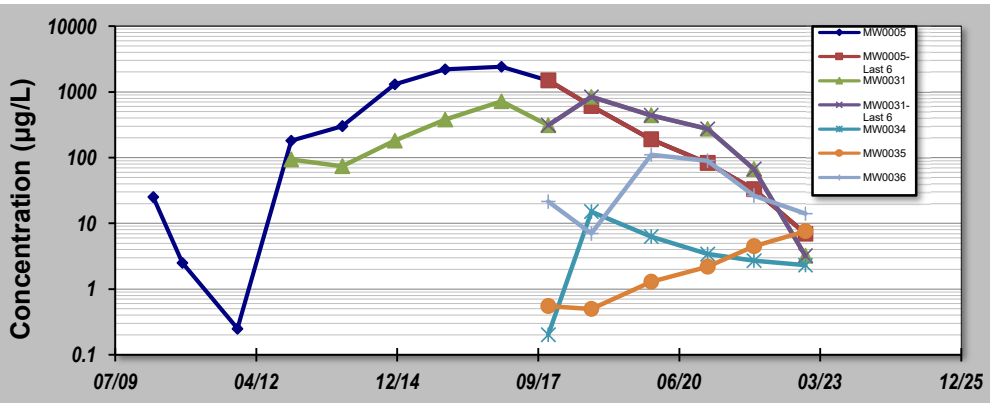
MANN-KENDALL ANALYSIS

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GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	26-Oct-23	Job ID:	2022 IGWM
Facility Name:	Propellants Support Building Area	Constituent:	Vinyl Chloride
Conducted By:	JB	Concentration Units:	µg/L

Sampling Point ID:	MW0005	MW0005-Last 6	MW0031	MW0031-Last 6	MW0034	MW0035	MW0036
Sampling Event	Sampling Date	VINYL CHLORIDE CONCENTRATION (µg/L)						
1	Apr-2010	25						
2	Oct-2010	2.5						
3	Nov-2011	0.25						
4	Dec-2012	180		94				
5	Dec-2013	300		74				
6	Dec-2014	1300		180				
7	Dec-2015	2200		380				
8	Jan-2017	2400		720				
9	Dec-2017	1500	1500	310	310	0.2	0.55	21.5
10	Oct-2018	610	610	840	840	15	0.5	7
11	Dec-2019	190	190	440	440	6.3	1.3	110
12	Jan-2021	83	83	273	273	3.4	2.2	89.5
13	Nov-2021	33	33	67.2	67.2	2.7	4.5	26.4
14	Dec-2022	6.9	6.9	3.2	3.2	2.3	7.6	14.0
15								
16								
17								
18								
19								
20								
Coefficient of Variation:		1.36	1.44	0.89	0.93	1.06	1.00	0.97
Mann-Kendall Statistic (S):		5	-15	-3	-11	-5	13	-1
Confidence Factor:		58.5%	99.9%	56.0%	97.2%	76.5%	99.2%	50.0%
Concentration Trend:		No Trend	Decreasing	Stable	Decreasing	No Trend	Increasing	Stable



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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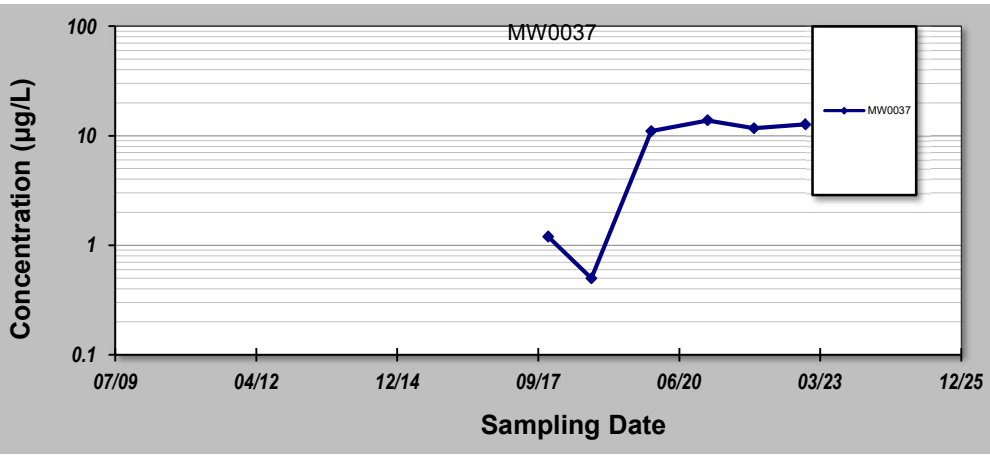
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GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	26-Oct-23	Job ID:	2022 IGWM
Facility Name:	Propellants Support Building Area	Constituent:	Vinyl Chloride
Conducted By:	JB	Concentration Units:	µg/L

Sampling Point ID: MW0037

Sampling Event	Sampling Date	VINYL CHLORIDE CONCENTRATION (µg/L)
1	Apr-2010	
2	Oct-2010	
3	Nov-2011	
4	Dec-2012	
5	Dec-2013	
6	Dec-2014	
7	Dec-2015	
8	Jan-2017	
9	Dec-2017	1.2
10	Oct-2018	0.5
11	Dec-2019	**11**
12	Jan-2021	**13.8**
13	Nov-2021	**11.7**
14	Dec-2022	**12.7**
15		
16		
17		
18		
19		
20		
Coefficient of Variation:		0.71
Mann-Kendall Statistic (S):		9
Confidence Factor:		93.2%
Concentration Trend:		Prob. Increasing



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

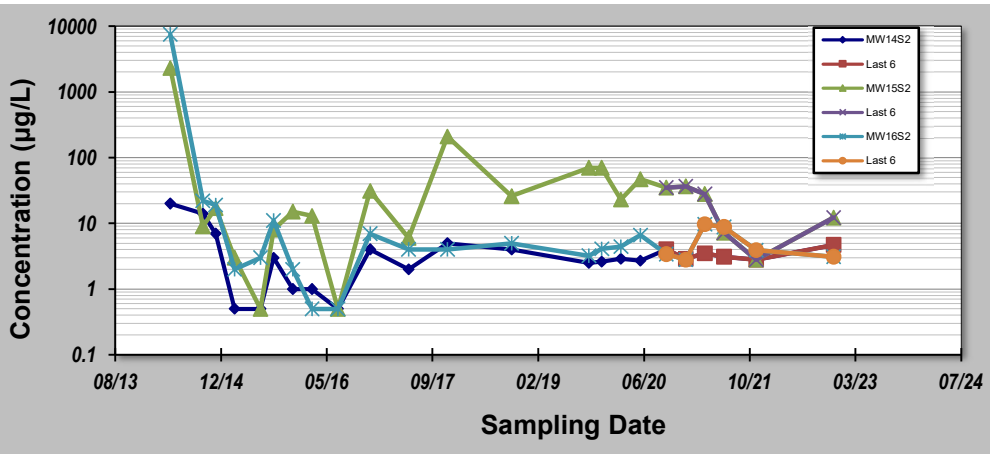
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GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	26-Oct-23	Job ID:	2022 IGWM
Facility Name:	Former Drum Storage Area	Constituent:	Trichloroethene
Conducted By:	JB	Concentration Units:	µg/L

Sampling Point ID:	MW14S2	Last 6	MW15S2	Last 6	MW16S2	Last 6	
Sampling Event	Sampling Date	TRICHLOROETHENE CONCENTRATION (µg/L)						
1	May-2014	20		2300		7500		
2	Oct-2014	14		9		22		
3	Dec-2014	7		17		19		
4	Mar-2015	0.5		3		2		
5	Jul-2015	0.5		0.5		3		
6	Sep-2015	3		8		11		
7	Dec-2015	1		15		2		
8	Mar-2016	1		13		0.5		
9	Jul-2016	0.5		0.5		0.5		
10	Dec-2016	4		31		7		
11	Jun-2017	2		6		4		
12	Dec-2017	5		210		4		
13	Oct-2018	4		26		5		
14	Oct-2019	2.5		70		3.2		
15	Dec-2019	2.6		70		4.1		
16	Mar-2020	2.9		23		4.4		
17	Jun-2020	2.7		47		6.6		
18	Oct-2020	4	4	35	35	3.4	3.4	
19	Jan-2021	2.9	2.9	36.6	36.6	2.8	2.8	
20	Apr-2021	3.5	3.5	28.1	28.1	9.7	9.7	
21	Jul-2021	3.1	3.1	7.2	7.2	8.8	8.8	
22	Dec-2021	2.8	2.8	2.8	2.8	3.9	3.9	
23	Dec-2022	4.7	4.7	12.2	12.2	3.1	3.1	
24								
25								
Coefficient of Variation:		1.09	0.21	3.68	0.73	4.71	0.59	
Mann-Kendall Statistic (S):		19	-1	17	-9	-26	-1	
Confidence Factor:		68.1%	50.0%	66.2%	93.2%	74.4%	50.0%	
Concentration Trend:		No Trend	Stable	No Trend	Prob. Decreasing	No Trend	Stable	



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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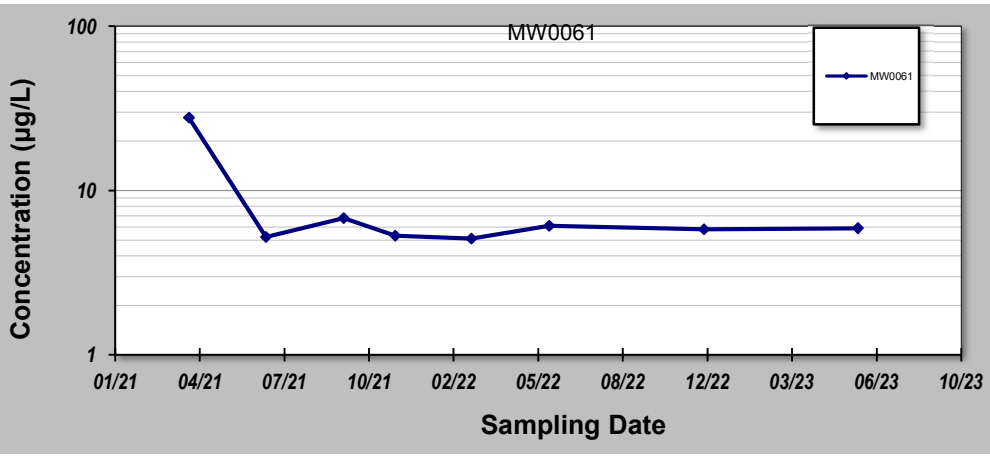
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GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	26-Oct-23	Job ID:	2022 IGWM
Facility Name:	Former Drum Storage Area	Constituent:	Trichloroethene
Conducted By:	JB	Concentration Units:	µg/L

Sampling Point ID: MW0061

Sampling Event	Sampling Date	TRICHLOROETHENE CONCENTRATION (µg/L)
1	Apr-2021	27.8
2	Jul-2021	5.2
3	Oct-2021	6.8
4	Dec-2021	5.3
5	Mar-2022	5.1
6	Jun-2022	6.1
7	Dec-2022	5.8
8	Jun-2023	5.9
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
Coefficient of Variation:		0.83
Mann-Kendall Statistic (S):		-7
Confidence Factor:		64.0%
Concentration Trend:		Stable



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

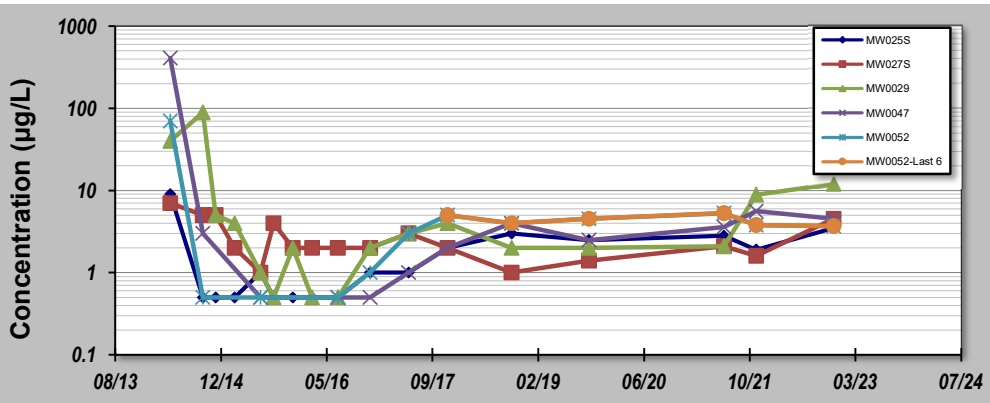
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GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	26-Oct-23	Job ID:	2022 IGWM
Facility Name:	Former Drum Storage Area	Constituent:	Trichloroethene
Conducted By:	JB	Concentration Units:	µg/L

Sampling Point ID:	MW025S	MW027S	MW0029	MW0047	MW0052	MW0052-Last 6	
Sampling Event	Sampling Date	TRICHLOROETHENE CONCENTRATION (µg/L)						
1	May-2014	9	7	40	410	70		
2	Oct-2014	0.5	5	89	3	0.5		
3	Dec-2014	0.5	5	5				
4	Mar-2015	0.5	2	4				
5	Jul-2015	1	1	1	0.5	0.5		
6	Sep-2015	0.5	4	0.5				
7	Dec-2015	0.5	2	2				
8	Mar-2016	0.5	2	0.5				
9	Jul-2016	0.5	2	0.5	0.5	0.5		
10	Dec-2016	1	2	2	0.5	1		
11	Jun-2017	1	3	3	1	3		
12	Dec-2017	2	2	4	2	5	5	
13	Oct-2018	3	1	2	4	4	4	
14	Oct-2019	2.5	1.4	2	2.5	4.5	4.5	
15	Jul-2021	2.8	2.1	2.1	3.6	5.3	5.3	
16	Dec-2021	1.9	1.6	8.9	5.6	3.8	3.8	
17	Dec-2022	3.5	4.5	12.0	4.5	3.7	3.7	
18								
19								
20								
Coefficient of Variation:		1.15	0.60	2.12	3.23	2.29	0.15	
Mann-Kendall Statistic (S):		60	-39	0	23	19	-7	
Confidence Factor:		99.3%	94.1%	48.4%	93.3%	88.9%	86.4%	
Concentration Trend:		Increasing	Prob. Decreasing	No Trend	Prob. Increasing	No Trend	Stable	



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

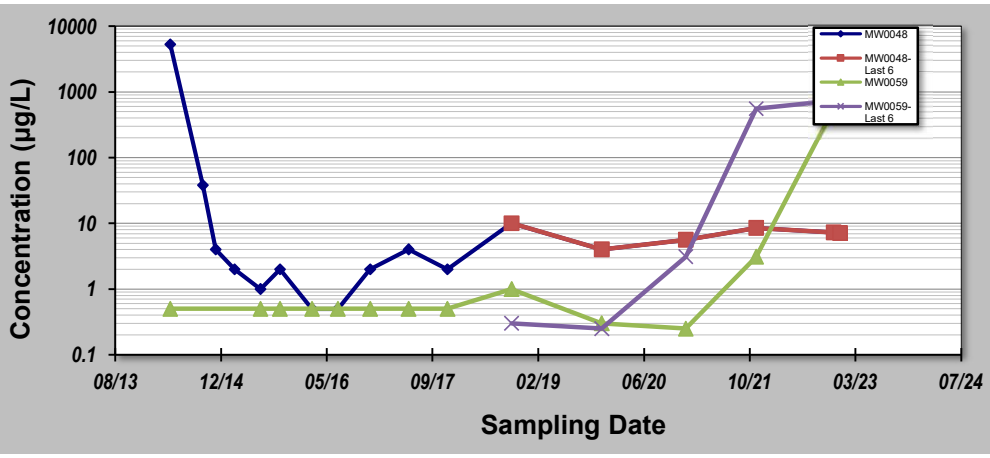
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GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	26-Oct-23	Job ID:	2022 IGWM
Facility Name:	Former Drum Storage Area	Constituent:	Trichloroethene
Conducted By:	JB	Concentration Units:	µg/L

Sampling Point ID:	MW0048	MW0048-Last 6	MW0059	MW0059-Last 6			
Sampling Event	Sampling Date	TRICHLOROETHENE CONCENTRATION (µg/L)						
1	May-2014	5300		0.5				
2	Oct-2014	38						
3	Dec-2014	4						
4	Mar-2015	2						
5	Jul-2015	1		0.5				
6	Oct-2015	2		0.5				
7	Mar-2016	0.5		0.5				
8	Jul-2016	0.5		0.5				
9	Dec-2016	2		0.5				
10	Jun-2017	4		0.5				
11	Dec-2017	2		0.5				
12	Oct-2018	10	10	1	0.3			
13	Dec-2019	4	4	0.3	0.25			
14	Jan-2021	5.6	5.6	0.25	3.1			
15	Dec-2021	8.5	8.5	3.1	555			
16	Dec-2022	7.3	7.3	555	737			
17	Jan-2023	7.1	7.1					
18								
19								
20								
Coefficient of Variation:		4.04	0.30	3.55	1.39			
Mann-Kendall Statistic (S):		18	-1	12	8			
Confidence Factor:		75.5%	50.0%	74.5%	95.8%			
Concentration Trend:		No Trend	Stable	No Trend	Increasing			



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

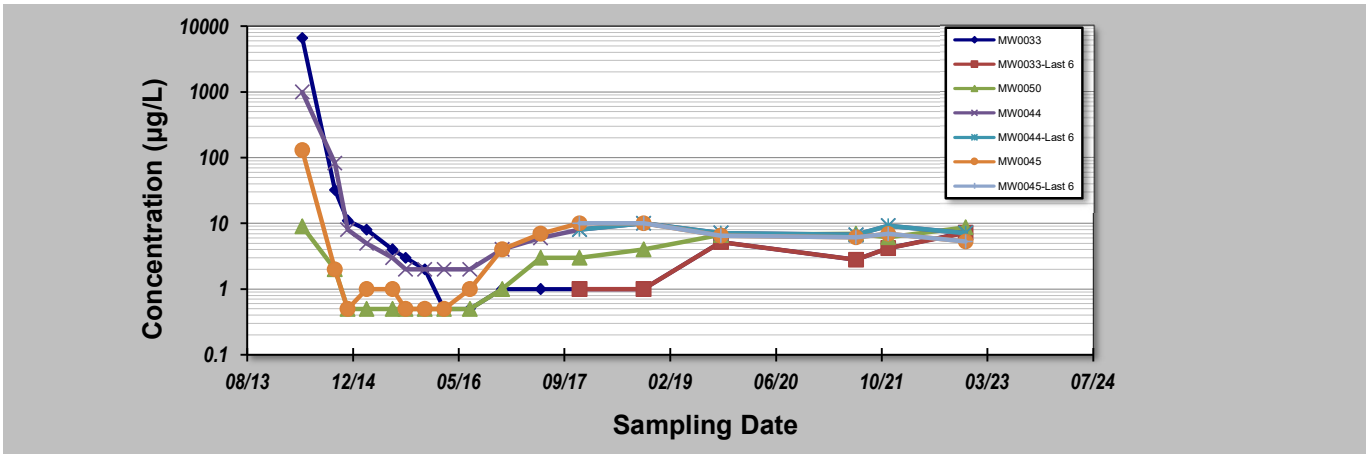
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GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	26-Oct-23	Job ID:	2022 IGWM
Facility Name:	Former Drum Storage Area	Constituent:	Trichloroethene
Conducted By:	JB	Concentration Units:	µg/L

Sampling Point ID:	MW0033	MW0033-Last 6	MW0050	MW0044	MW0044-Last 6	MW0045	MW0045-Last 6
Sampling Event	Sampling Date	TRICHLOROETHENE CONCENTRATION (µg/L)						
1	May-2014	6600		9	1000		130	
2	Oct-2014	32		2	82		2	
3	Dec-2014	11		0.5	8		0.5	
4	Mar-2015	8		0.5	5		1	
5	Jul-2015	4		0.5	3		1	
6	Sep-2015	3		0.5	2		0.5	
7	Dec-2015	2		0.5	2		0.5	
8	Mar-2016	0.5		0.5	2		0.5	
9	Jul-2016	0.5		0.5	2		1	
10	Dec-2016	1		1	4		4	
11	Jun-2017	1		3	6		7	
12	Dec-2017	1	1	3	8	8	10	10
13	Oct-2018	1	1	4	10	10	10	10
14	Oct-2019	5.2	5.2	6.7	7.1	7.1	6.5	6.5
15	Jul-2021	2.8	2.8	7	6.7	6.7	6.1	6.1
16	Dec-2021	4.2	4.2	6.1	9.2	9.2	6.9	6.9
17	Dec-2022	7.2	7.2	8.7	7.1	7.1	5.3	5.3
18								
19								
20								
Coefficient of Variation:		4.07	0.69	0.99	3.52	0.16	2.71	0.27
Mann-Kendall Statistic (S):		-37	10	62	6	-4	36	-10
Confidence Factor:		93.0%	95.2%	99.5%	58.0%	70.3%	92.4%	95.2%
Concentration Trend:		Prob. Decreasing	Increasing	Increasing	No Trend	Stable	Prob. Increasing	Decreasing



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

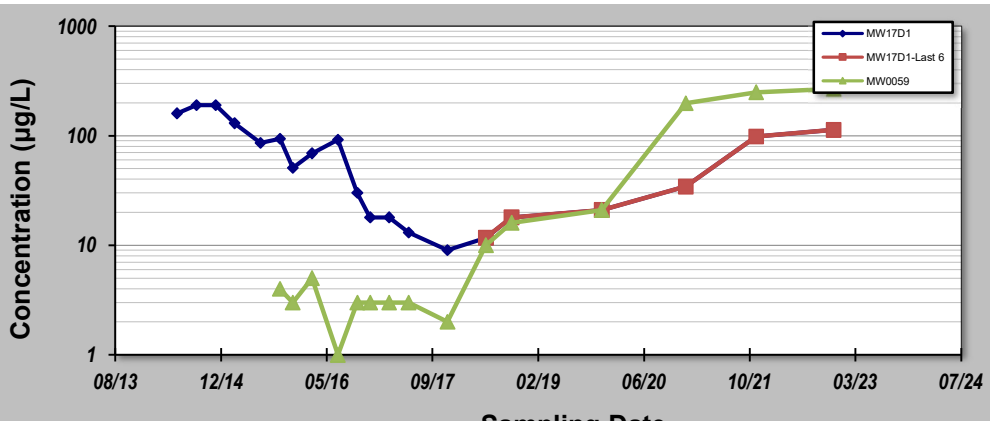
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GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	26-Oct-23	Job ID:	2022 IGWM
Facility Name:	Former Drum Storage Area	Constituent:	cis-1,2-Dichloroethene
Conducted By:	JB	Concentration Units:	µg/L

Sampling Point ID:	MW17D1	MW17D1-Last 6	MW0059				
Sampling Event	Sampling Date	CIS-1,2-DICHLOROETHENE CONCENTRATION (µg/L)						
1	Jun-2014	160						
2	Sep-2014	190						
3	Dec-2014	190						
4	Mar-2015	130						
5	Jul-2015	86						
6	Oct-2015	94		4				
7	Dec-2015	51		3				
8	Mar-2016	69		5				
9	Jul-2016	92		1				
10	Oct-2016	30		3				
11	Dec-2016	18		3				
12	Mar-2017	18		3				
13	Jun-2017	13		3				
14	Dec-2017	9		2				
15	Jun-2018	11.7	11.7	10				
16	Oct-2018	18	18	16				
17	Dec-2019	21	21	21				
18	Jan-2021	34.4	34.4	198				
19	Dec-2021	98	98	250				
20	Dec-2022	113	113	268				
21								
22								
23								
24								
25								
Coefficient of Variation:		0.83	0.90	1.85				
Mann-Kendall Statistic (S):		-78	15	57				
Confidence Factor:		99.4%	99.9%	99.8%				
Concentration Trend:		Decreasing	Increasing	Increasing				



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
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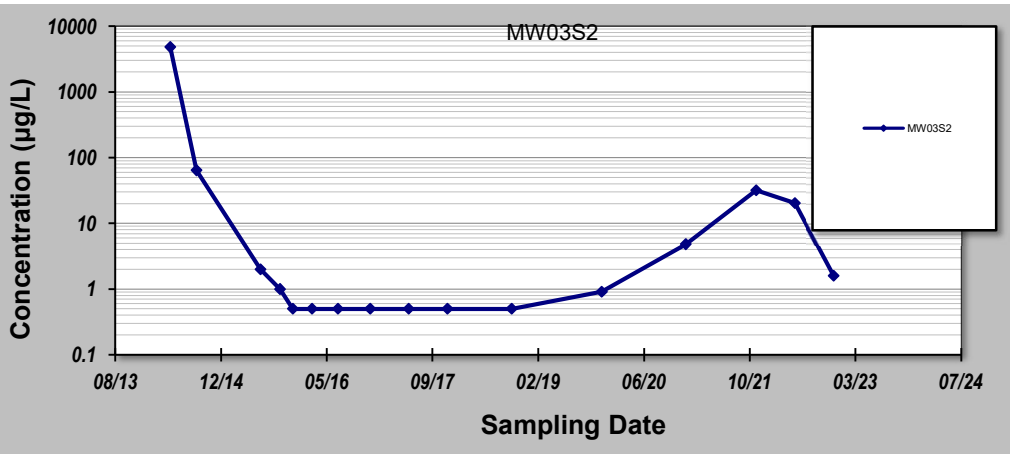
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GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	26-Oct-23	Job ID:	2022 IGWM
Facility Name:	Former Drum Storage Area	Constituent:	VC
Conducted By:	JB	Concentration Units:	µg/L

Sampling Point ID: MW03S2

Sampling Event	Sampling Date	VC CONCENTRATION (µg/L)
1	May-2014	4800
2	Sep-2014	64
3	Jul-2015	2
4	Oct-2015	1
5	Dec-2015	0.5
6	Mar-2016	0.5
7	Jul-2016	0.5
8	Dec-2016	0.5
9	Jun-2017	0.5
10	Dec-2017	0.5
11	Oct-2018	0.5
12	Dec-2019	0.91
13	Jan-2021	4.8
14	Dec-2021	31.8
15	Jun-2022	20.4
16	Dec-2022	1.6
17		
18		
19		
20		
Coefficient of Variation:		3.89
Mann-Kendall Statistic (S):		-3
Confidence Factor:		53.6%
Concentration Trend:		No Trend



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
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APPENDIX D

ADVANCED DATA PACKAGE AND MEETING MINUTES

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HGL

Restoring the Environment.
Protecting Our Future.

Propellants Support Building Area, Solid Waste Management Unit (SWMU) 102

and

Former Drum Storage Area, SWMU 037

FLUID SERVICING ROAD AREA (FSRA)
INTERIM GROUNDWATER MONITORING

NOVEMBER 2023

Presentation Outline

Propellants Support Building Area (PSBA)

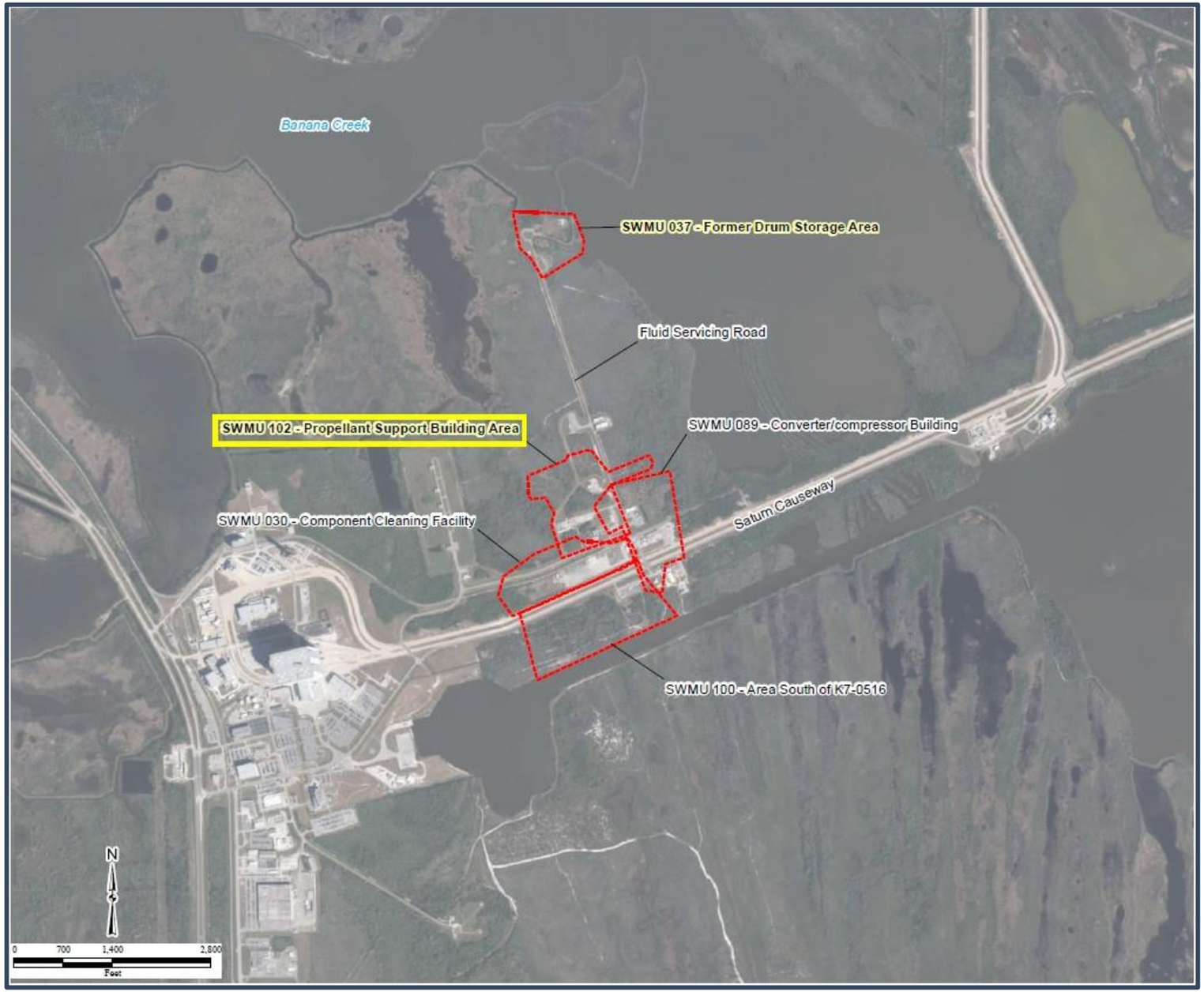
- History/Background
- Interim Groundwater Monitoring (IGWM) Summary
- Groundwater Elevation Data
- Groundwater Sampling Results
- Five Year Direct Push Technology (DPT) Plume Assessment Summary
- Conclusions/Recommendations
- Test Team Consensus

Former Drum Storage Area (FDSA)

- History/Background
- IGWM Summary
- Groundwater Elevation Data
- Groundwater Sampling Results
- Conclusions/Recommendations
- Test Team Consensus

This Advance Data Package was prepared for NASA to aid in evaluation of site conditions and remedial actions. This is not a decision document. New information may come to light that makes this Advance Data Package outdated.

Site Location – PSBA (SWMU 102)



Legend

SWMU Boundary

PBSA SWMU Location

General Location



Note:

PSBA=Propellant Support Building Area
SWMU=Solid Waste Management Unit

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Photo of PSBA



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PSBA History and Background

- Located along Fluid Servicing Road
- Groundwater only medium of concern
  - Contaminants of Concerns (COC) include: Trichloroethene (TCE) and degradation products (cis-1,2-dichlorothene [cDCE], trans-1,2-dichloroethene [tDCE], and vinyl chloride [VC])
  - No record of spills
  - Assumed source is release from a TCE drum(s)
- Nov 2011: IGWM
- Feb 2012: Fate and transport model
  - Groundwater modeling indicated Outstanding Florida Water (OFW) receptor will not be impacted
  - Results support the decision for IGWM with no need for active treatment
- Mar 2017: Supplemental DPT sampling to refine the extent of the plumes
  - Resulted in installation of four new wells and plume footprint revisions
  - DPT sampling done every 5 years to confirm continued degradation

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PSBA IGWM Summary

- December 2022 – Annual IGWM event conducted (12th IGWM sampling event)
  - 8 monitoring wells sampled for site COCs.
  - Annual sampling events monitors wells in the 30-40 and 40-50 feet (ft) below ground surface (bgs) zones while the biennial event also includes wells in the 20-30 ft bgs zone.
- April/July 2023 – Final Phase of 5 Year DPT sampling conducted. 107 groundwater samples collected from 30 boring locations.
- Biennial event, which includes sampling of 22 (8 annual wells and 14 biennial wells) monitoring wells, is scheduled for December 2023.

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PSBA IGWM Wells

Legend	
	Monitoring Well
PSBA-MW0019	Wells Sampled Annually
PSBA-MW0020	Wells Sampled Biennially
PSBA-MW0004	Wells not Sampled

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Groundwater Elevation Data

- December 14, 2022 - Water level data collected from 36 monitoring wells.
- Measurements indicate flow is away from the topographically higher center of the site in both the 30 to 40-foot and 40 to 50-foot groundwater intervals.
- Groundwater flows to the east and west toward lower ground elevations.
- Unable to collect water level or groundwater sample from one well (MW0019) due to safety issue with wildlife.



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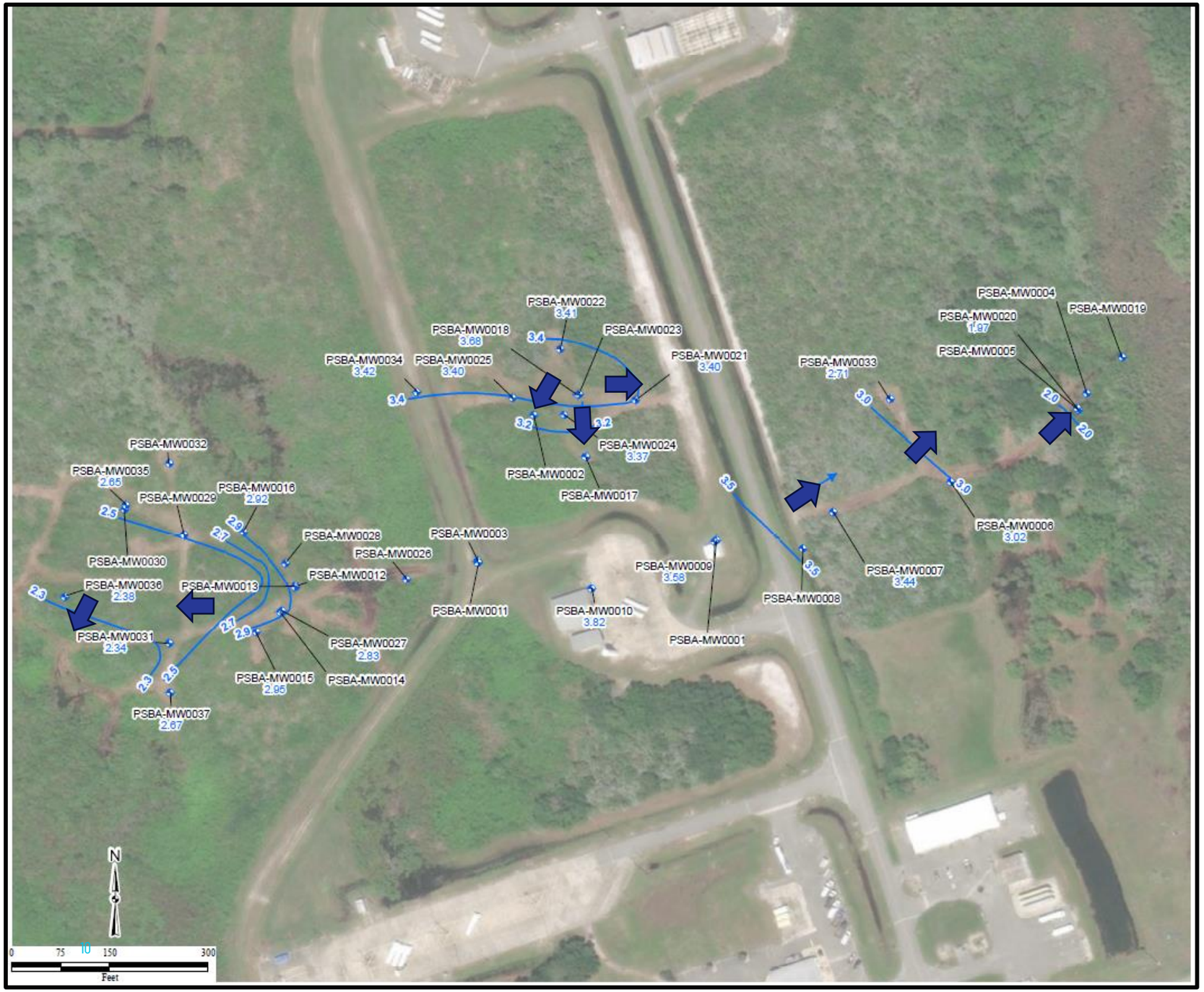


Groundwater Elevations 30’-40’

Legend

	Monitoring Well
PSBA-MW0019	Sample/Well Identification
3.19	Groundwater Elevation (ft NGVD29) December 2022
	Groundwater Flow Direction
—3.2—	Groundwater Elevation Contour (ft bgs, NGVD29, dashed where inferred)

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Groundwater Elevations 40’-50’

Legend	
	Monitoring Well
PSBA-MW0019	Sample/Well Identification
3.40	Groundwater Elevation (ft NGVD29) December 2022
	Groundwater Flow Direction
—3.0—	Groundwater Elevation Contour (ft bgs, NGVD29, dashed where inferred)

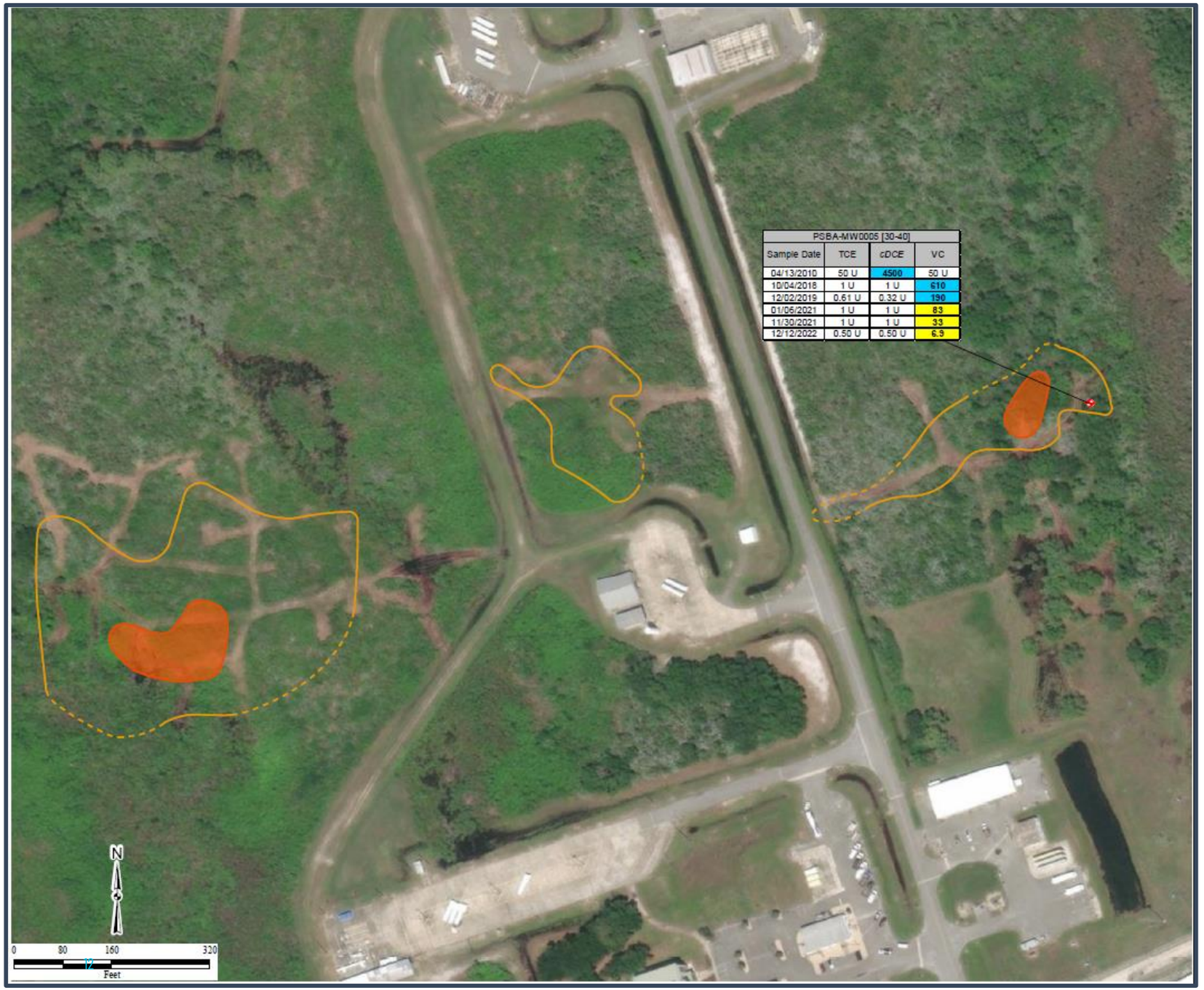
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PSBA IGWM Results 2022

30 ft to 40 ft Interval

- One monitoring well was sampled (MW0005)
  - VC only COC above the GCTL and continues to show a decreasing trend.
  - No COC concentrations exceeded the Natural Attenuation Default Concentrations (NADC)
- Monitoring well MW0019 was not able to be sampled due to safety issue with wildlife (alligator).

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2022 PSBA IGWM Results 30’-40’

Legend

- Monitoring Well Exceeds GCTL
- 2022/2023 Low Concentration Plume (<NADCs, dashed where inferred)
- 2022/2023 High Concentration Plume (>NADCs)

Notes:
All results are in micrograms per liter (µg/L).
Blue=Exceeds NADC
Yellow=Exceeds GCTL
cDCE=cis-1,2-dichloroethene
ft bgs=feet below ground surface
GCTL=Groundwater Cleanup Target Level
I=Reported value is between method detection limit and practical quantitation limit.
IGWM=Interim Groundwater Monitoring
J=Estimated Value
NADC=Natural Attenuation Default Concentration
TCE=trichloroethene
U=Not Detected
VC=vinyl chloride

FDEP Groundwater Target Cleanup Levels			
TCE	cDCE	tDCE	VC
3	70	100	1

Note: Plume outlines have been generated from most recent annual/biennial sampling events and 2022/2023 DPT data.

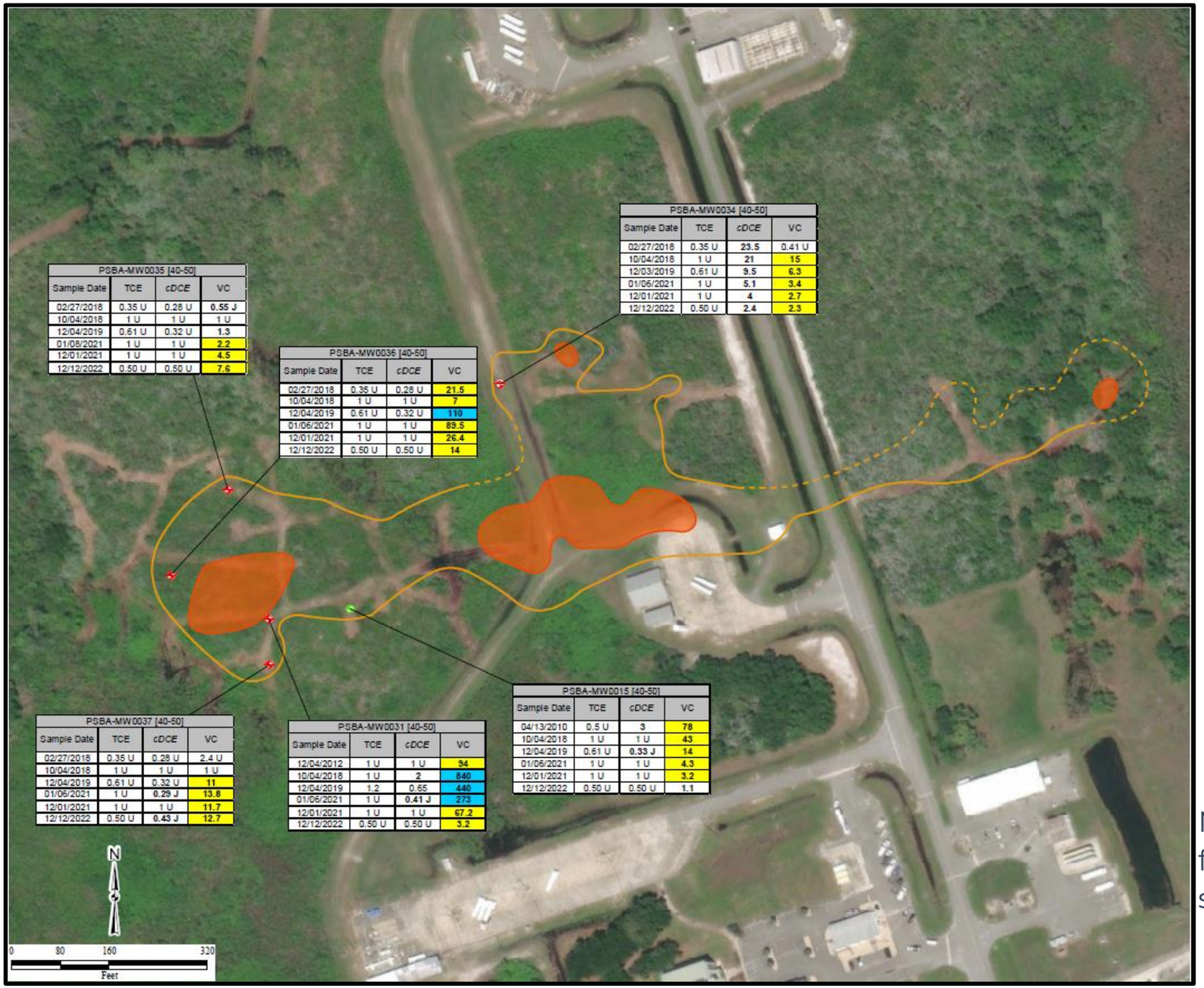
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PSBA IGWM Results (cont.)

40 ft to 50 ft Interval

- 6 monitoring wells sampled
  - Only VC detected above GCTLs
  - All concentrations are decreasing or stable
  - None of the concentrations exceeded the NADC
  - VC concentrations above the GCTL ranged from 2.3 µg/L (PSBA-MW0034) to 14 µg/L (PSBA-MW0036)

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2022 PSBA IGWM Results 40'-50'

Legend

- Monitoring Well Exceeds GCTL
- 2022/2023 Low Concentration Plume (<NADCs, dashed where inferred)
- 2022/2023 High Concentration Plume (>NADCs)

Notes:
All results are in micrograms per liter (µg/L).
Blue=Exceeds NADC
Yellow=Exceeds GCTL
cDCE=cis-1,2-dichloroethene
ft bgs=feet below ground surface
GCTL=Groundwater Cleanup Target Level
I=Reported value is between method detection limit and practical quantitation limit.
IGWM=Interim Groundwater Monitoring
J=Estimated Value
NADC=Natural Attenuation Default Concentration
TCE=trichloroethene
U=Not Detected
VC=vinyl chloride

FDEP Groundwater Target Cleanup Levels			
TCE	cDCE	tDCE	VC
3	70	100	1

Note: Plume outlines have been generated from most recent annual/biennial sampling events and 2022/2023 DPT data.

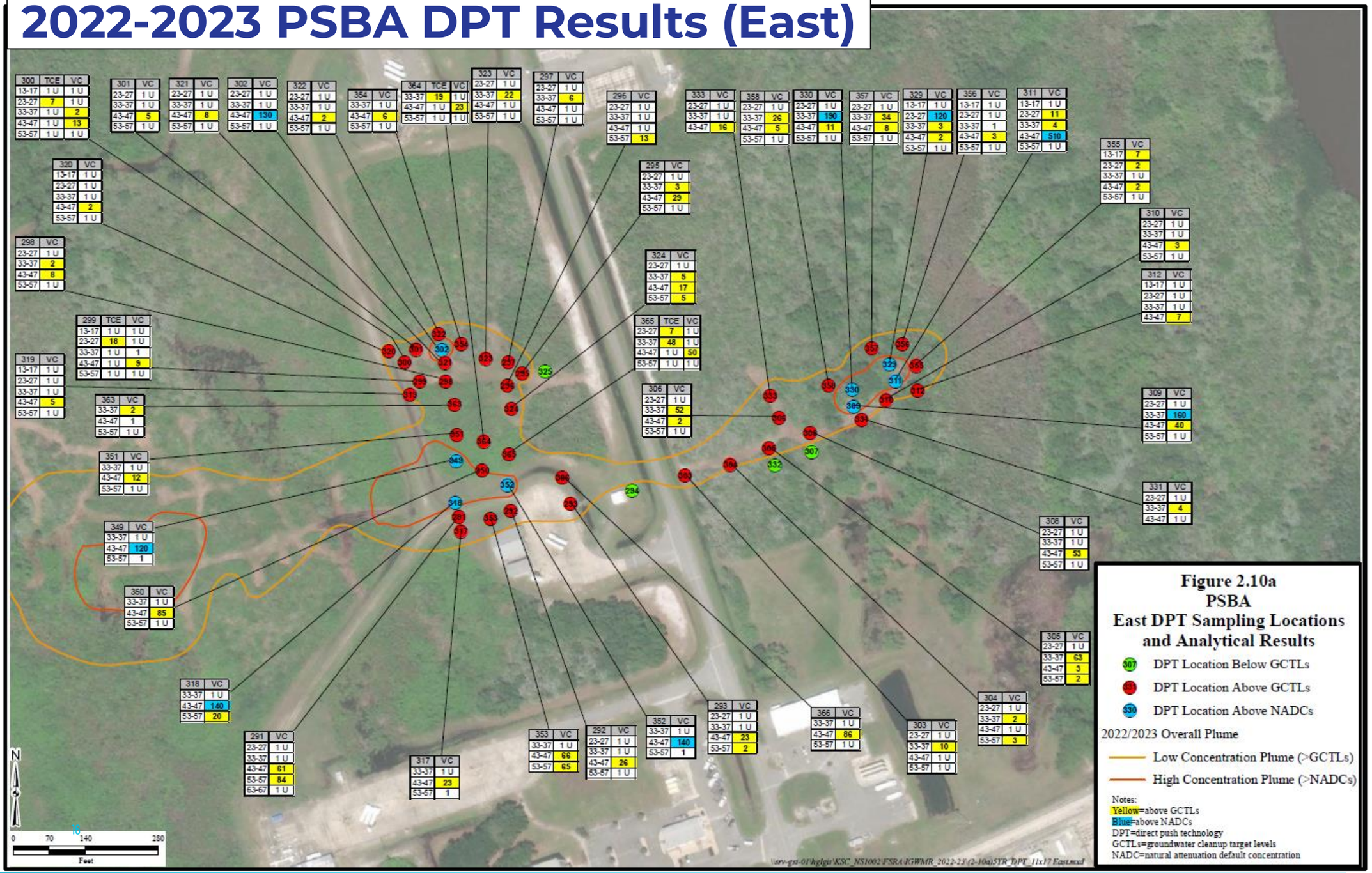
This Advance Data Package was prepared for NASA to aid in evaluation of site conditions and remedial actions. This is not a decision document. New information may come to light that makes this Advance Data Package outdated.

PSBA 5 Year DPT Summary

- Conducted final phase of five-year plume assessment sampling
  - Collected 107 groundwater samples from 30 boring locations for a total of 310 samples from 77 locations.
  - VC, cDCE and TCE detected above GCTLs.
  - VC only COC detected above NADC.
  - High concentration (>NADC) plumes appear to be decreasing in both the east/west and north area.
  - Low concentration (>GCTL) plume and >NADC plumes have migrated west/southwest in the east/west area.
  - The >NADC plume south of the northern area identified during the 2012 Site Characterization appears to have also deceased in size. (Samples not collected in this area during 2017 Supplemental DPT sampling.)

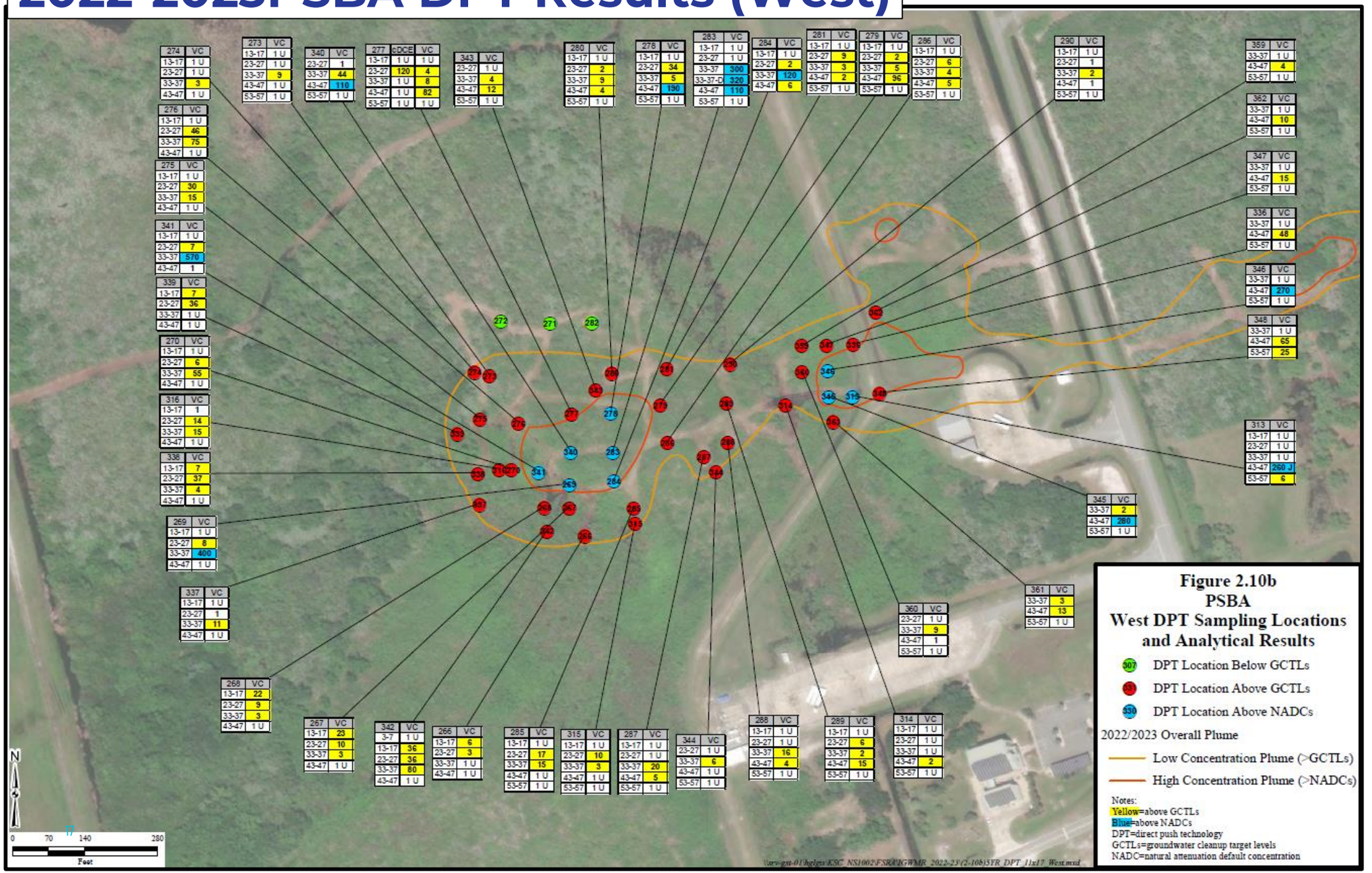
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2022-2023 PSBA DPT Results (East)

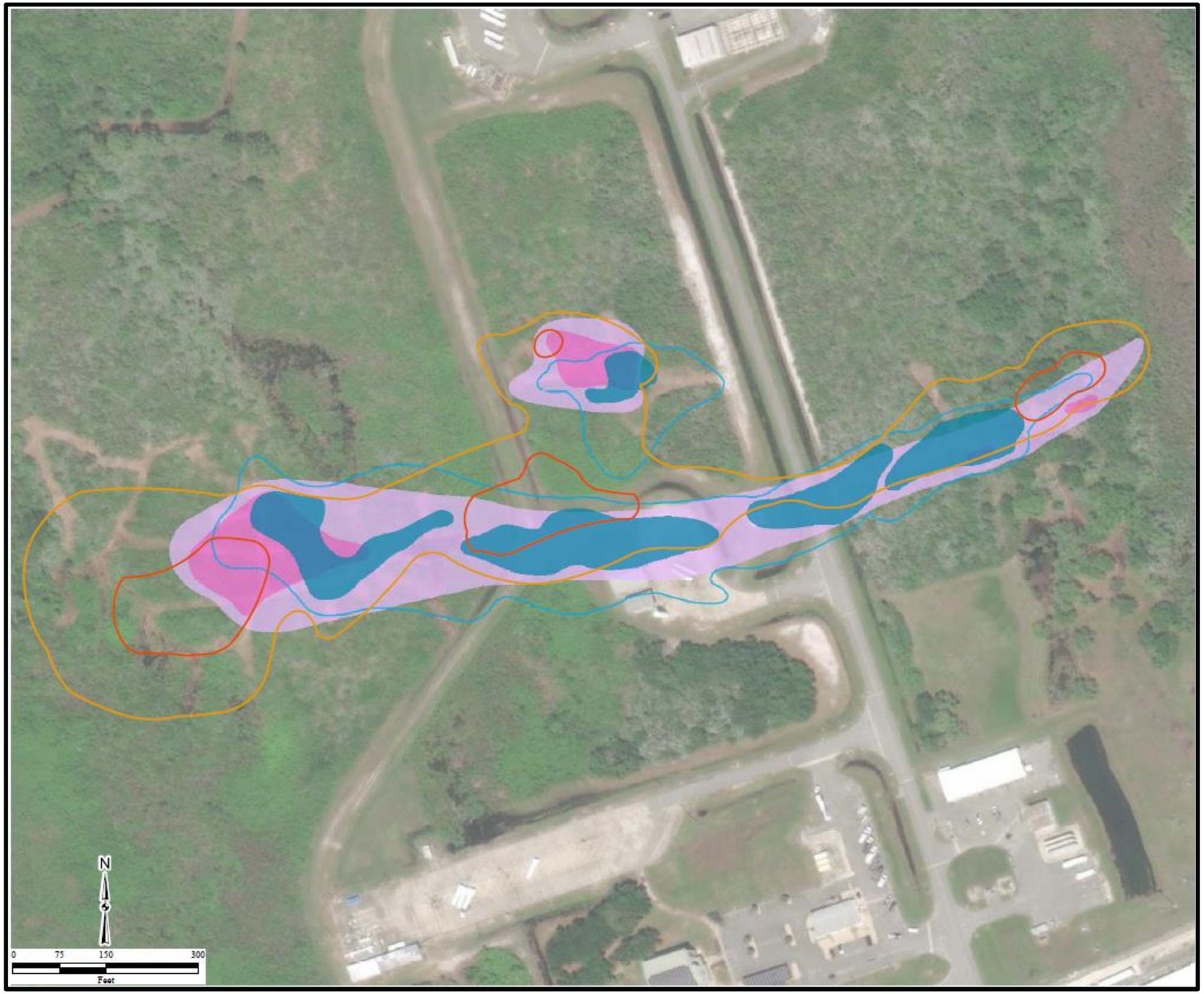


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2022-2023PSBA DPT Results (West)



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PSBA Total VOC Plume

Legend

2022/2023 Overall Plume
- Low Concentration Plume (>GCTLs)
- High Concentration Plume (>NADCs)

2017 Overall Plume
- Low Concentration Plume (>GCTLs)
- High Concentration Plume (>NADCs)
- Hot Spot (>10x NADC)

2012 Overall Plume
- Low Concentration Plume (>GCTLs)
- High Concentration Plume (>NADCs)

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Statistical Analyses (Mann-Kendall)

- A Mann-Kendall (M-K) trend analysis was conducted for each analyte at a given well detected at a concentration greater than the GCTL or NADC.
  - The entire period of record for the given well was analyzed.
  - Half of the reporting limit was used as a proxy concentration for non-detect results.
- No GCTL exceedances of TCE, cDCE or tDCE were detected in 2022, thus M-K trend analyses were not conducted for these analytes.

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M-K Trend Analyses

Well ID (PSBA-)	Screened Interval (ft bls)	VC
Sample Depths 30 to 40 ft bls		
MW0005	30-40	No Trend
Sample Depths 40 to 50 ft bls		
MW0031	40-50	Stable
MW0034	40-50	No Trend
MW035	40-50	Increasing
MW0036	40-50	Stable
MW0037	40-50	Probably Increasing

- When only the last six sampling events are evaluated, the trend at:
  - MW0005 (originally no trend) is decreasing;
  - MW0031 (originally stable) is decreasing;
- All other trends remained unchanged.

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Conclusion/Recommendations

- Conclusions:
  - VC concentration of the annual monitoring wells are generally stable in both the north and east/west plumes for both the 30’ to 40’ and 40’ to 50’ depth interval.
  - MW0035 and MW0037 did show increasing M-K trends.
  - MW0031 reported >NADC VC concentrations from 2018 through 2021. Since the January 2021 sampling event results have continued to decrease but remain above the GCTL.
  - The high and low concentration plumes have migrated to the west/southwest.
  - Due to access restrictions into the western low-lying area, DPT results did not completely delineate the western boundary.
  - DPT investigation provided additional data showing the western migration of the plume.
- Recommendations:
  - Continue Annual/Biennial Interim Groundwater Monitoring.
  - The 5 Year DPT confirmed the presence of >NADC plumes and that plumes have been migrating west/southwest. It is recommended to conduct a Remedial Alternatives Evaluation.

This Advance Data Package was prepared for NASA to aid in evaluation of site conditions and remedial actions. This is not a decision document. New information may come to light that makes this Advance Data Package outdated.

Proposed 2023/2024 IGWM Program

- Biennial sampling event in December 2023
- Conduct Remedial Alternatives Evaluation

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Proposed 2023/2024 IGWM Program

Well ID	Plume	Sampling Frequency
PSBA-MW0005 [30-40]	East-West	Annual
PSBA-MW0006 [40-50]	East-West	Biennial
PSBA-MW0007 [40-50]	East-West	Biennial
PSBA-MW0009 [40-50]	East-West	Biennial
PSBA-MW0010 [40-50]	East-West	Biennial
PSBA-MW0012 [10-20]	East-West	Biennial
PSBA-MW0014 [30-40]	East-West	Biennial
PSBA-MW0015 [40-50]	East-West	Annual
PSBA-MW0019 [30-40]	East-West	Annual
PSBA-MW0020 [40-50]	East-West	Biennial
PSBA-MW0024 [40-50]	North	Biennial
PSBA-MW0025 [40-50]	North	Biennial
PSBA-MW0026 [30-40]	East-West	Biennial
PSBA-MW0027 [40-50]	East-West	Biennial
PSBA-MW0028 [30-40]	East-West	Biennial
PSBA-MW0029 [30-40]	East-West	Biennial
PSBA-MW0030 [30-40]	East-West	Biennial
PSBA-MW0031 [40-50]	East-West	Annual
PSBA-MW0034 [40-50]	North	Annual
PSBA-MW0035 [40-50]	East-West	Annual
PSBA-MW0036 [40-50]	East-West	Annual
PSBA-MW0037 [40-50]	East-West	Annual

Notes:

PSBA = Propellants Support Building Area.

- No changes to sampling network are recommended.

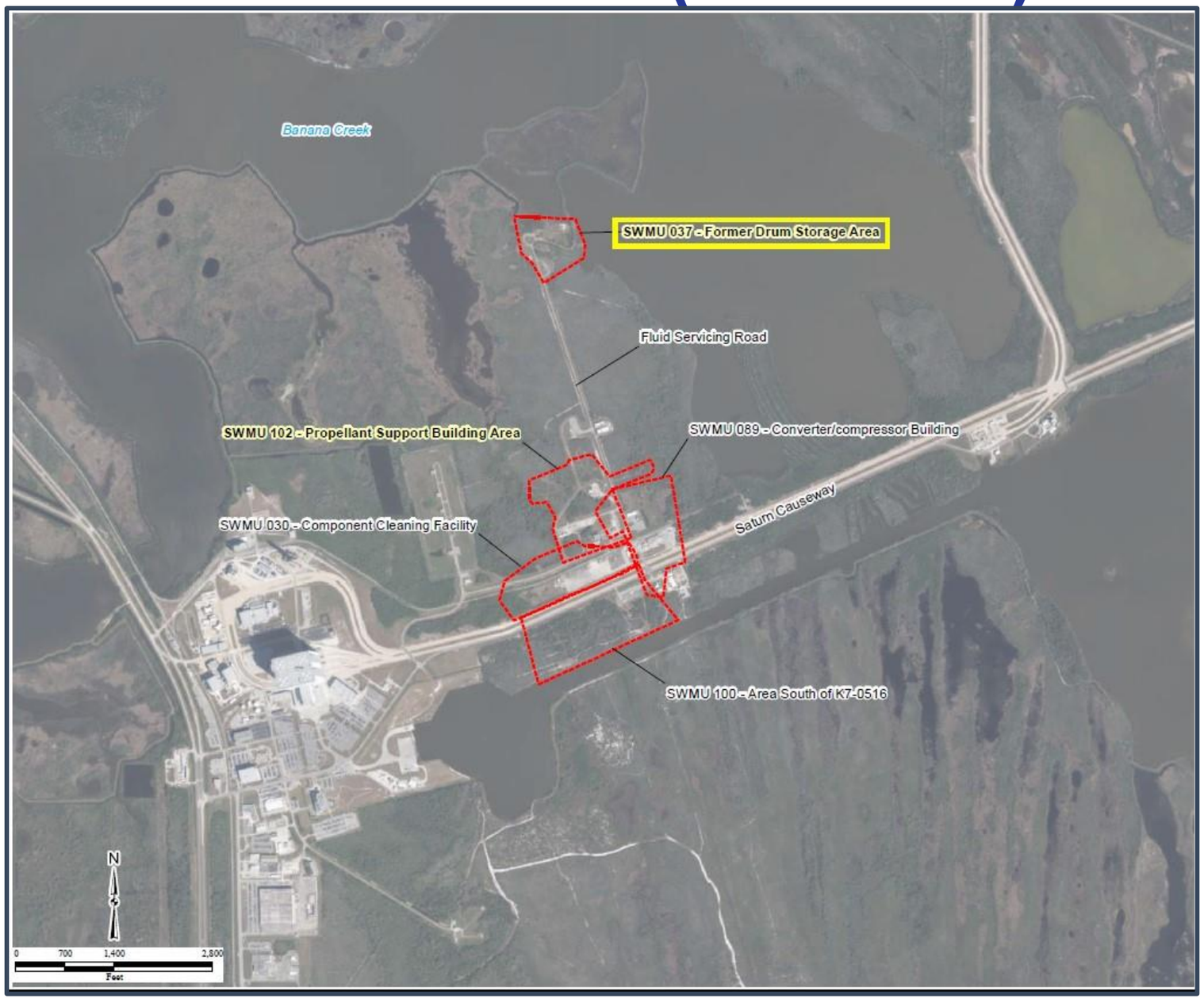
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Test Consensus

- 2023-2024 Sampling Plan
  - Biennial sampling event: 22 monitoring wells (8 annual wells and 14 biennial wells) to be sampled in December 2023 for TCE, cDCE, tDCE and VC
  - Annual water level data from 37 wells
- Exit Strategy
  - Conduct Remedial Alternatives Evaluation to determine appropriate path forward.
  - Evaluate optimization of monitoring program on annual basis.

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Site Location – FDSA (SWMU 037)



Legend

SWMU Boundary

FDSA SWMU Location

General Location



Note:

FDSA=Former Drum Storage Area
SWMU=Solid Waste Management Unit

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Photo of FDSA



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FDSA History and Background

- 1979 - Area was used for drum storage
- 1988 - Environmental personnel observed approximately 100 drums and three tankers
- Environmental Investigations
  - Approved RCRA Facility Investigation (12/2006)
  - Corrective Measures Study (11/2008)
  - Pilot Study (10/2010)
- Groundwater only medium of concern
  - COCs include TCE, cis/trans DCE, and VC
- Site Characterization Evaluation (10/2012)
  - Low Concentration Plume (LCP) - 4.1 acres
  - High Concentration Plume (HCP) - 2.0 acres
  - Hot Spots (10x NADC) - 0.5 acres of Hot Spots
  - Dense Nonaqueous Phase Liquids (DNAPL) Source Zone - 920 sq ft
- Remedial Alternatives Evaluation (12/2012)
  - Selected Air Sparging for HCP/HS/Source Zone
- Interim Measure Work Plan (03/2013)
  - Treat HCP: 137 sparging wells with seven treatment zones



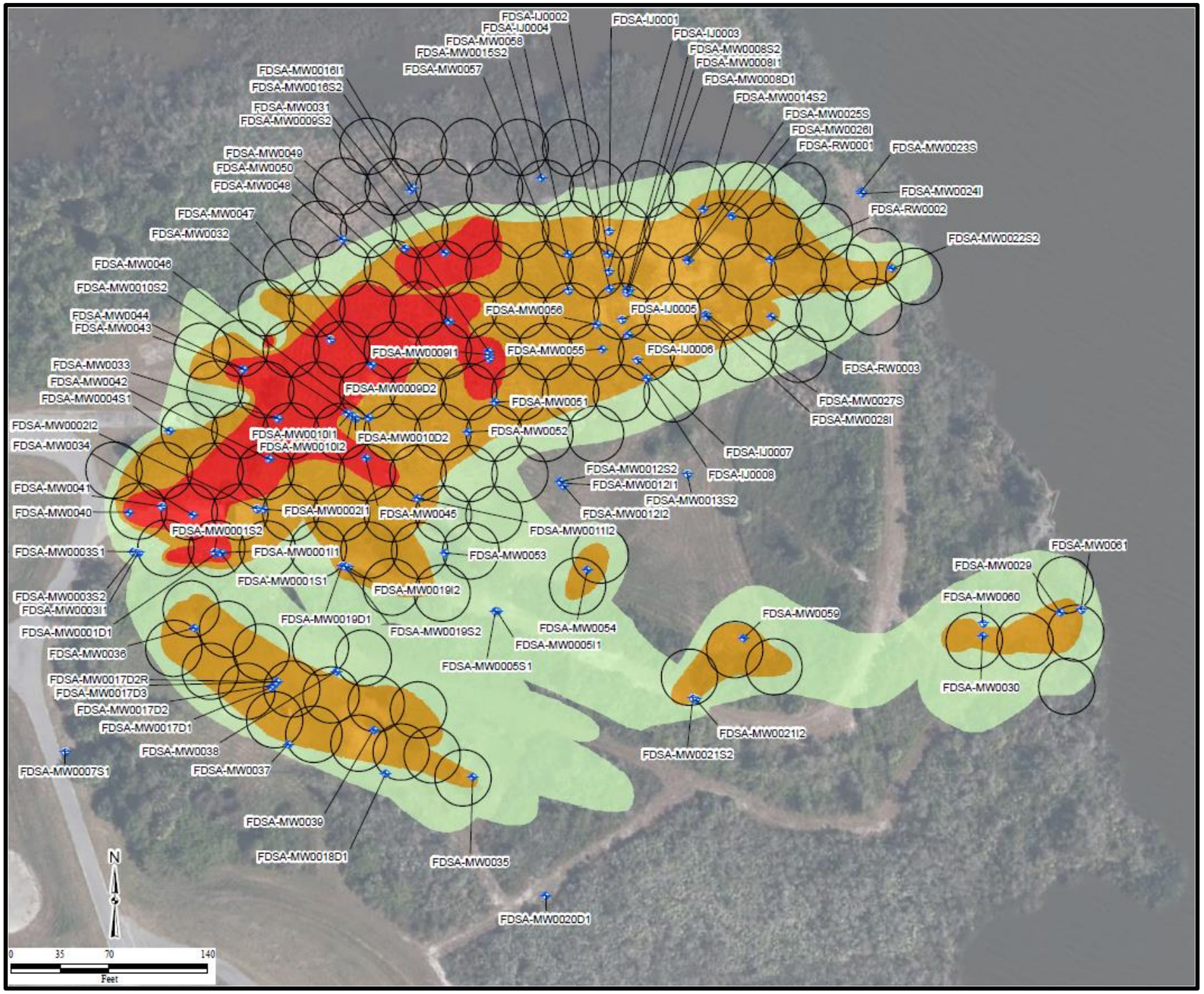
1979 Photograph

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FDSA History and Background (cont.)

- Interim Measure (IM) Objective - Remediate contaminated groundwater within the treatment zones to support transition to monitored natural attenuation.
- Overall Corrective Action Objective
  - Reduce concentrations of TCE, cDCE, tDCE, and VC to less than Florida Department of Environmental Protection GCTLs; and
  - Due to adjacent OFW, contaminants in groundwater cannot discharge to OFW degrading water quality which is interpreted as causing or contributing to detections exceeding background concentrations in SW [Chapter 62-302.700(1)]
- IM Implementation
  - 12/2013 - Air sparge installation initiated
  - 06/2014 - Full scale operations initiated
  - 03/2016 - Six of seven sparge zones shut down
  - 05/2018 - Last zone (southwest portion of site) shut down
- IGWM program began when active remediation was discontinued in May 2018.

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2012 Plume and Sparge System Layout

Legend

Monitoring Well

Air Sparge ROI

2012 Overall Plume

Low Concentration Plume (>GCTLs)

High Concentration Plume (>NADCs)

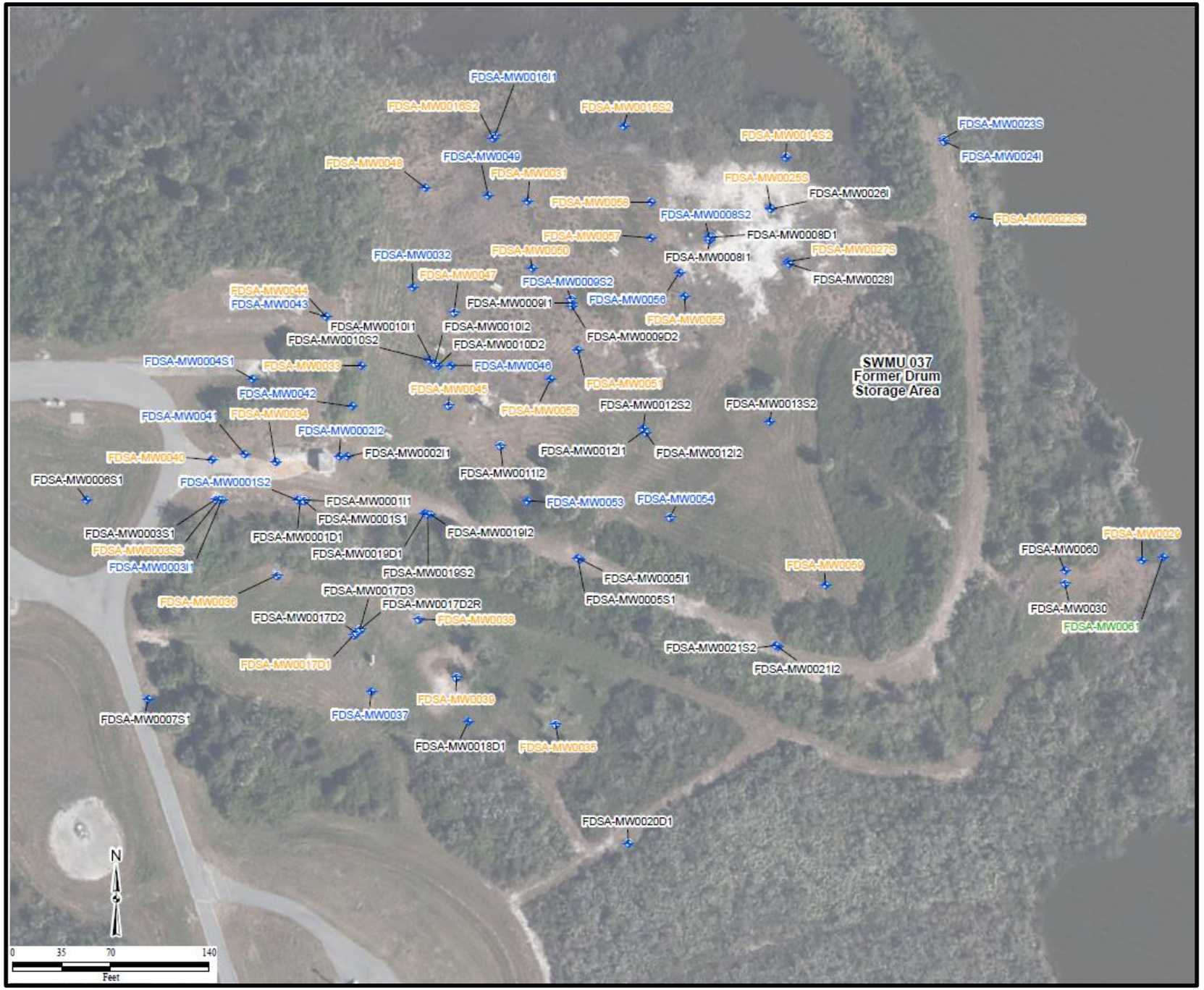
Hot Spot (>10x NADC)

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IGWM Summary

- Reporting Period: June 2022 to June 2023
  - Semi annual sampling in June 2022 and June 2023 of one monitoring well (MW0061)
  - Annual sampling of 27 wells (including 1 semi annual well) in December 2022
  - Biennial sampling event scheduled for December 2023 and includes 41 wells (26 annual, 14 biennial, and 1 semi annual).
- Site-wide IGWM to observe concentration trends

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IGWM Wells

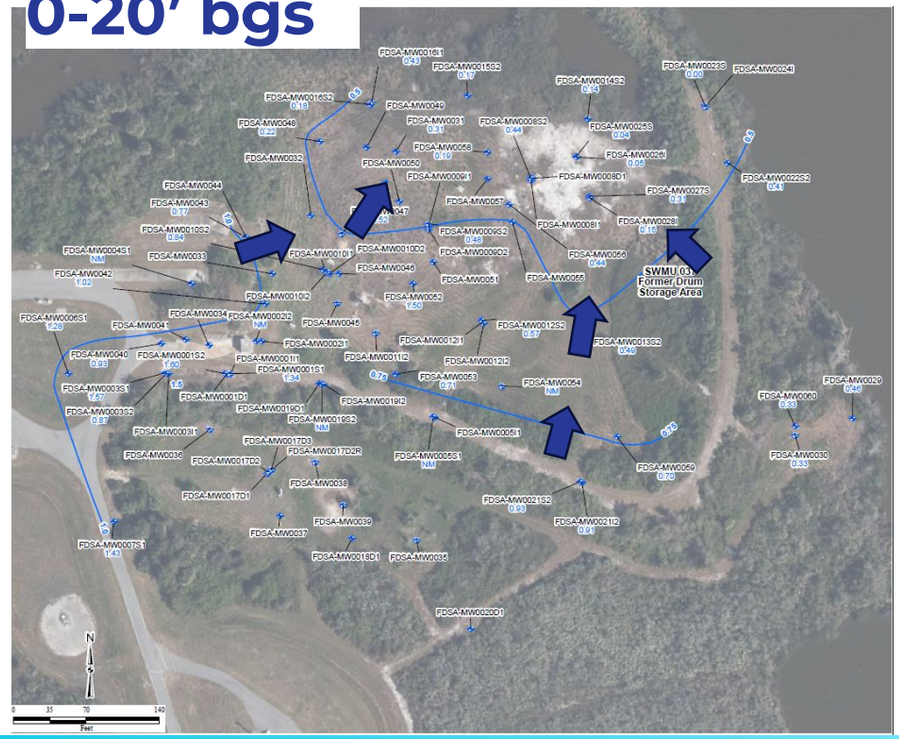
Legend	
	Monitoring Well
FDSA-MW0058	Sampled Semi Annually
FDSA-MW0023S	Sampled Annually
FDSA-MW0024I	Sampled Biennially
FDSA-MW0028I	Well not Sampled

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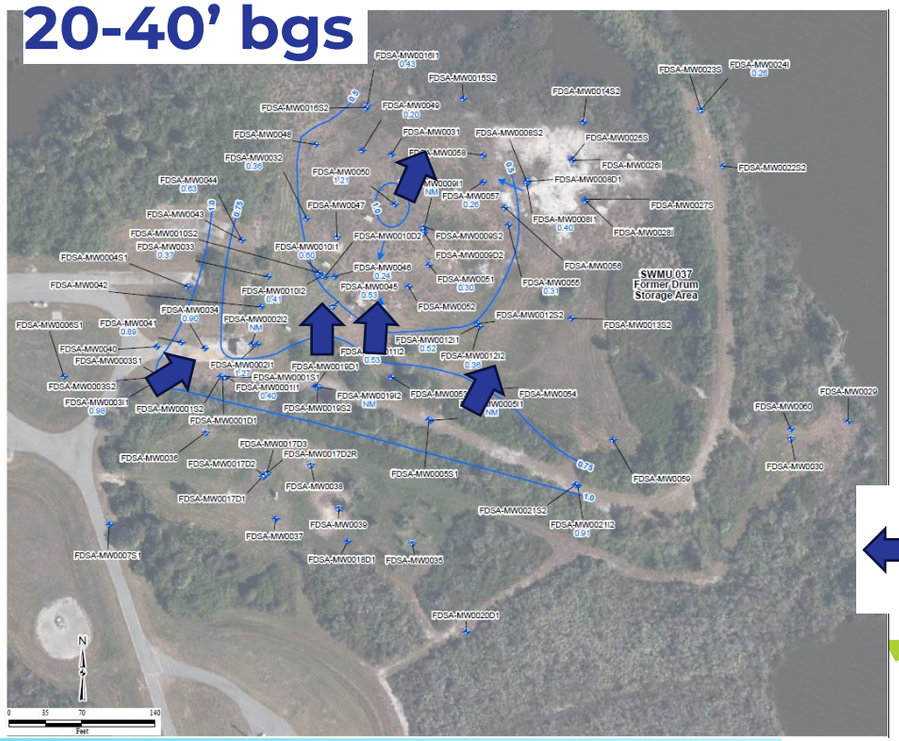
Water Level Data

- Water level data collected from 78 wells on December 6, 2022
- Wells Bottom of Screened Interval less than 40 feet bgs
  - Data indicate groundwater flow is generally towards the north-northeast
- Deep Wells (Screened Below 40 feet bgs)
  - Too few wells screened below 40 ft to provide full picture of groundwater flow
  - Historically, the groundwater flow direction has been interpreted as being generally toward the east

0-20’ bgs



20-40’ bgs



Approximate Groundwater Flow Direction

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Groundwater Sampling Results

- 0 ft to 10 ft Interval

- Semi annual sampling performed in June 2022, December 2022, and June 2023 (1 well).
- Annual sampling in December 2022 (4 wells, includes semi annual well) to monitor site COC concentrations.
  - TCE
    - Detected in semi-annual monitoring well MW0061 in June 2022, December 2022 and June 2023, concentration ranged from 5.8 µg/L to 6.1 µg/L.
    - Detected in 2 annual wells (MW14S2 and MW15S2) at concentrations of 4.7 µg/L and 12.2, respectively.
    - Concentrations at MW14S2 and MW15S2 increased since the previous sampling event.
    - All results below NADC (300 µg/L)
  - cis-DCE
    - All results below GCTL (70 µg/L)
  - trans-DCE
    - All results below GCTL (100 µg/L)
  - VC
    - All results below GCTL (1 µg/L)

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FDSA IGWM Results 0’-10’

Legend

- Monitoring Well Below GCTL
- Monitoring Well Exceeds GCTL
- Extent of Groundwater Above GCTLs

Notes:
All results are in micrograms per liter (µg/L).
Data tags include current quarterly for existing contract and previous years include annual data only.
Blue=Exceeds NADC
Yellow=Exceeds GCTL

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Groundwater Sampling Results

- 10 ft to 20 ft Interval

- 11 monitoring wells sampled
  - TCE
    - Detected above GCTL (3 µg/L) in 6 monitoring wells at concentrations ranging from 3.7 µg/L (MW0052) to 555 µg/L (MW0059)
    - MW0040 and MW0047 had slight increases from the January 2021 concentrations.
    - MW0059 concentration increased from 3.1 µg/L in December 2021 to 555 µg/L in December 2022. Due to the significant concentration increase the well was resampled in January 2023 and reported a concentration of 737 µg/L.

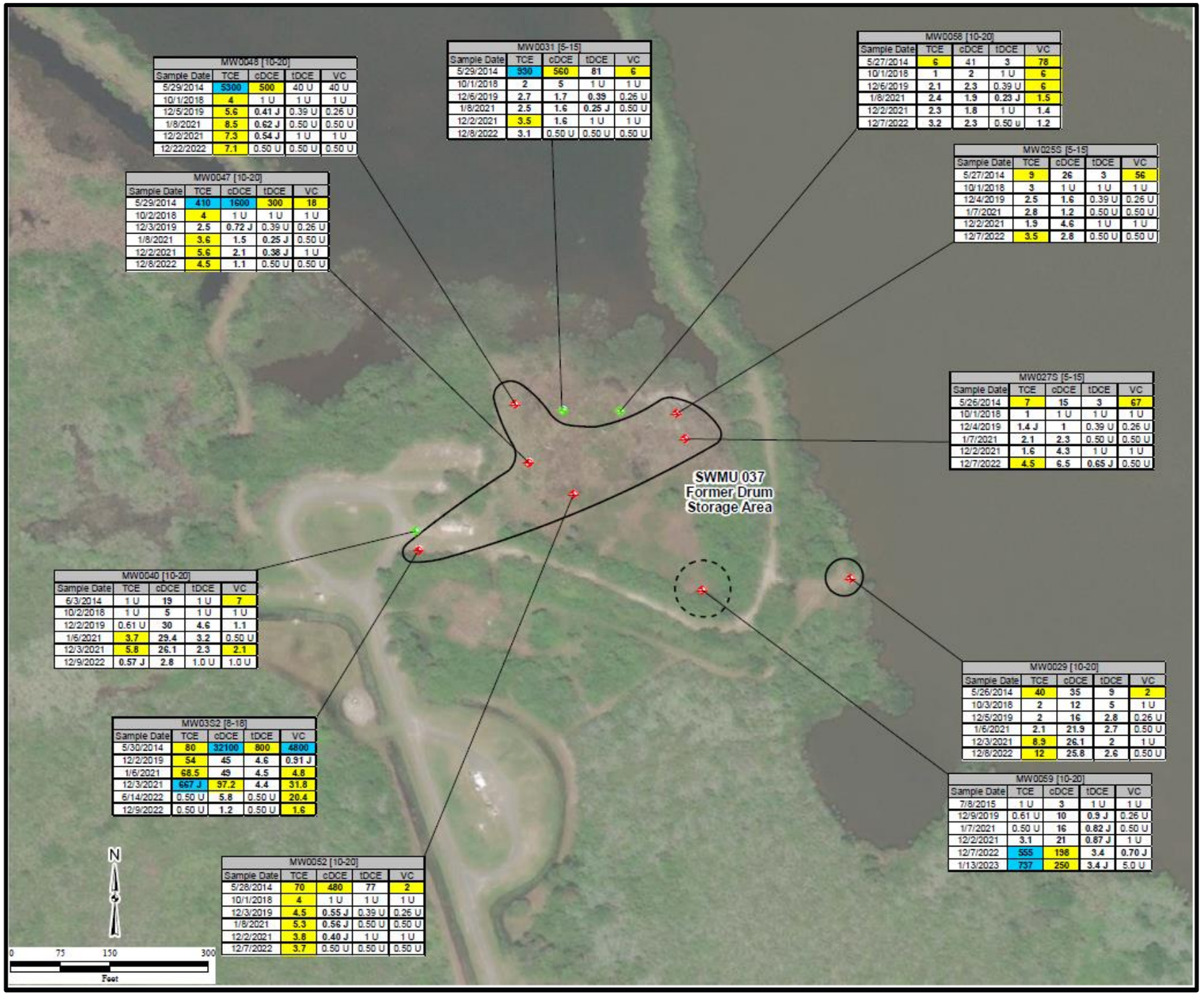
Well (FDSA-)/Screened Interval [in feet bls]	Sample Date	TCE	cDCE	tDCE	VC
MW0059 [10-20]	10/1/2014	1 U	4	1 U	1 U
	7/8/2015	1 U	3	1 U	1 U
	10/1/2015	1 U	5	1 U	1 U
	3/21/2016	1 U	1	1 U	1 U
	7/26/2016	1 U	3	1 U	1 U
	12/23/2016	1 U	3	1 U	1 U
	6/6/2017	1 U	3	1 U	1 U
	12/7/2017	1 U	3	1 U	1 U
	10/1/2018	1	2	1 U	6
	12/9/2019	0.61 U	10	0.9 J	0.26 U
	1/7/2021	0.50 U	16	0.82 J	0.50 U
	12/2/2021	3.1	21	0.87 J	1 U
	12/7/2022	555	198	3.4	0.70 J
	1/13/2023	737	250	3.4 J	5.0 U

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Groundwater Sampling Results

- 10 ft to 20 ft Interval (cont.)
  - cis-DCE
    - Detected above the GCTL (70 µg/L) at MW059 at a concentration of 198 µg/L which increased from 21 µg/L in December 2021. The resample result reported a concentration of 250 µg/L.
    - All other results were below the GCTL.
  - trans-DCE
    - All results below GCTL (100 µg/L)
  - VC
    - All results below GCTL (1 µg/L)

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FDSA IGWM Results 10'-20'

Legend

- Monitoring Well >GCTL during most recent sampling event
- Monitoring Well <GCTL during most recent sampling event
- Extent of Groundwater Above GCTLs (dashed where inferred)

Notes:
Blue=Exceeds NADC
Yellow=Exceeds GCTL

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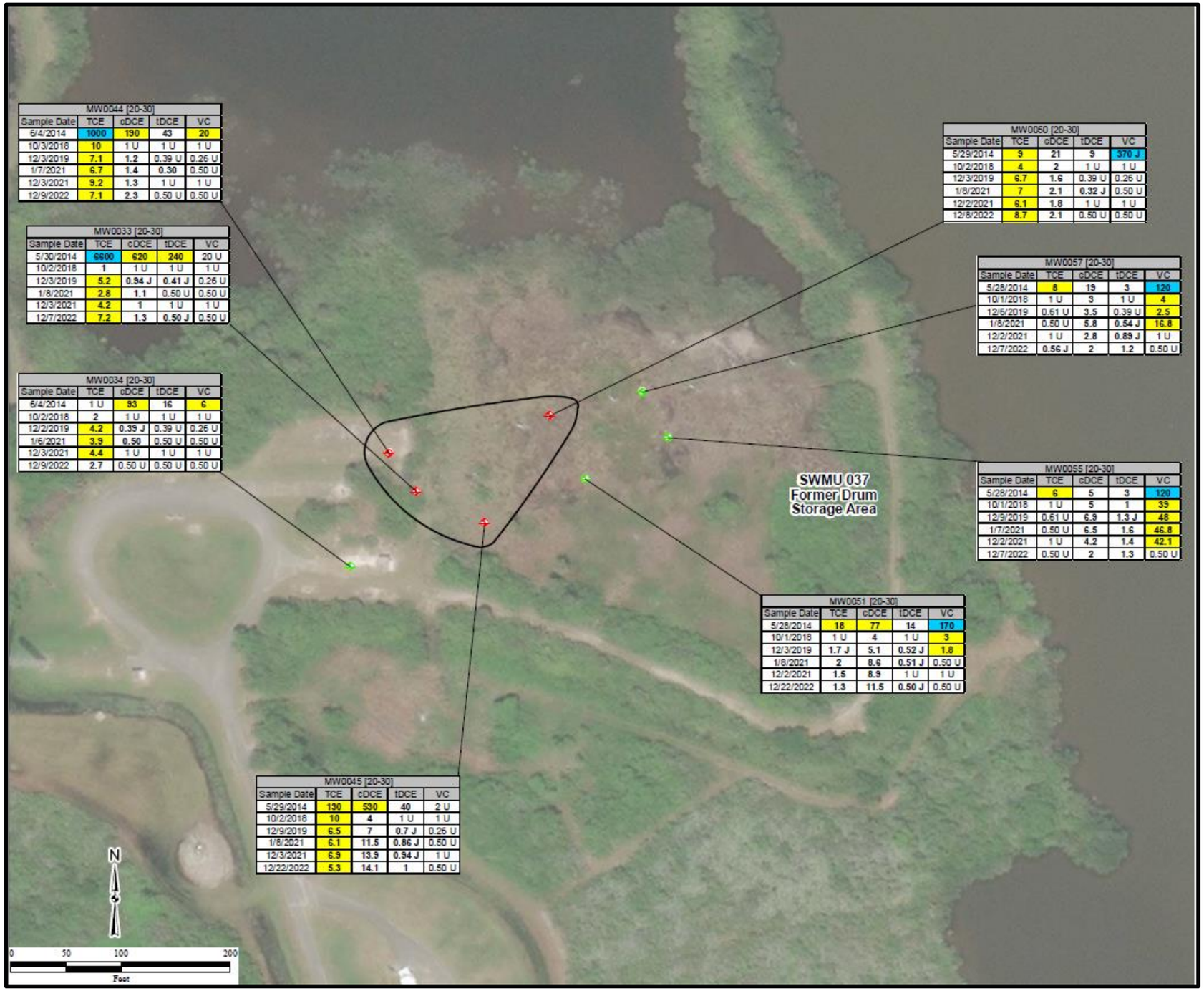
Groundwater Sampling Results

- 20 ft to 30 ft Interval

- 8 monitoring wells sampled
  - TCE
    - Detected above GCTL in 4 monitoring wells at concentrations ranging from 5.3 µg/L (MW0045) to 8.7 µg/L (MW0050)
    - Results in MW0033 and MW0050 showed slight increase
  - cis-DCE and trans-DCE
    - No detections above GCTLs
  - VC
    - No detections above GCTLs

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FDSA IGWM Results 20’-30’



MW0044 [20-30]

Sample Date	TCE	cDCE	tDCE	VC
6/4/2014	1000	190	43	20
10/3/2018	10	1 U	1 U	1 U
12/3/2019	7.1	1.2	0.39 U	0.26 U
1/7/2021	6.7	1.4	0.30	0.50 U
12/3/2021	9.2	1.3	1 U	1 U
12/9/2022	7.1	2.3	0.50 U	0.50 U

MW0033 [20-30]

Sample Date	TCE	cDCE	tDCE	VC
5/30/2014	6600	620	240	20 U
10/2/2018	1	1 U	1 U	1 U
12/3/2019	5.2	0.34 J	0.41 J	0.26 U
1/8/2021	2.8	1.1	0.50 U	0.50 U
12/3/2021	4.2	1	1 U	1 U
12/7/2022	7.2	1.3	0.50 J	0.50 U

MW0034 [20-30]

Sample Date	TCE	cDCE	tDCE	VC
6/4/2014	1 U	93	16	6
10/2/2018	2	1 U	1 U	1 U
12/2/2019	4.2	0.39 J	0.39 U	0.26 U
1/6/2021	3.9	0.50	0.50 U	0.50 U
12/3/2021	4.4	1 U	1 U	1 U
12/9/2022	2.7	0.50 U	0.50 U	0.50 U

MW0045 [20-30]

Sample Date	TCE	cDCE	tDCE	VC
5/29/2014	130	530	40	2 U
10/2/2018	10	4	1 U	1 U
12/9/2019	6.5	7	0.7 J	0.26 U
1/8/2021	6.1	11.5	0.86 J	0.50 U
12/3/2021	6.9	13.9	0.94 J	1 U
12/22/2022	5.3	14.1	1	0.50 U

MW0050 [20-30]

Sample Date	TCE	cDCE	tDCE	VC
5/29/2014	9	21	5	370 J
10/2/2018	4	2	1 U	1 U
12/3/2019	6.7	1.6	0.39 U	0.26 U
1/8/2021	7	2.1	0.32 J	0.50 U
12/2/2021	6.1	1.8	1 U	1 U
12/8/2022	8.7	2.1	0.50 U	0.50 U

MW0057 [20-30]

Sample Date	TCE	cDCE	tDCE	VC
5/28/2014	8	19	3	120
10/1/2018	1 U	3	1 U	4
12/6/2019	0.61 U	3.5	0.39 U	2.5
1/8/2021	0.50 U	5.8	0.54 J	16.8
12/2/2021	1 U	2.8	0.89 J	1 U
12/7/2022	0.56 J	2	1.2	0.50 U

MW0055 [20-30]

Sample Date	TCE	cDCE	tDCE	VC
5/28/2014	6	5	3	120
10/1/2018	1 U	5	1	39
12/9/2019	0.61 U	6.9	1.3 J	48
1/7/2021	0.50 U	6.5	1.6	46.8
12/2/2021	1 U	4.2	1.4	42.1
12/7/2022	0.50 U	2	1.3	0.50 U

MW0051 [20-30]

Sample Date	TCE	cDCE	tDCE	VC
5/28/2014	18	77	14	170
10/1/2018	1 U	4	1 U	3
12/3/2019	1.7 J	5.1	0.52 J	1.8
1/8/2021	2	8.6	0.51 J	0.50 U
12/2/2021	1.5	8.9	1 U	1 U
12/22/2022	1.3	11.5	0.50 J	0.50 U

Legend

- Monitoring Well Below GCTL
- Monitoring Well Exceeds GCTL
- Extent of Groundwater Above GCTLs

Notes:
All results are in micrograms per liter (µg/L).
Blue=Exceeds NADC
Yellow=Exceeds GCTL

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Groundwater Sampling Results

- 40 ft to 50 ft Interval

- 5 monitoring wells sampled
  - TCE
    - All results below GCTL.
  - cis-DCE
    - Detected above the GCTL at one monitoring well (MW17D1) at a concentration of 113 µg/L
    - All other results were below the GCTL.
  - trans-DCE
    - All results below GCTL.
  - VC
    - All results below GCTL.

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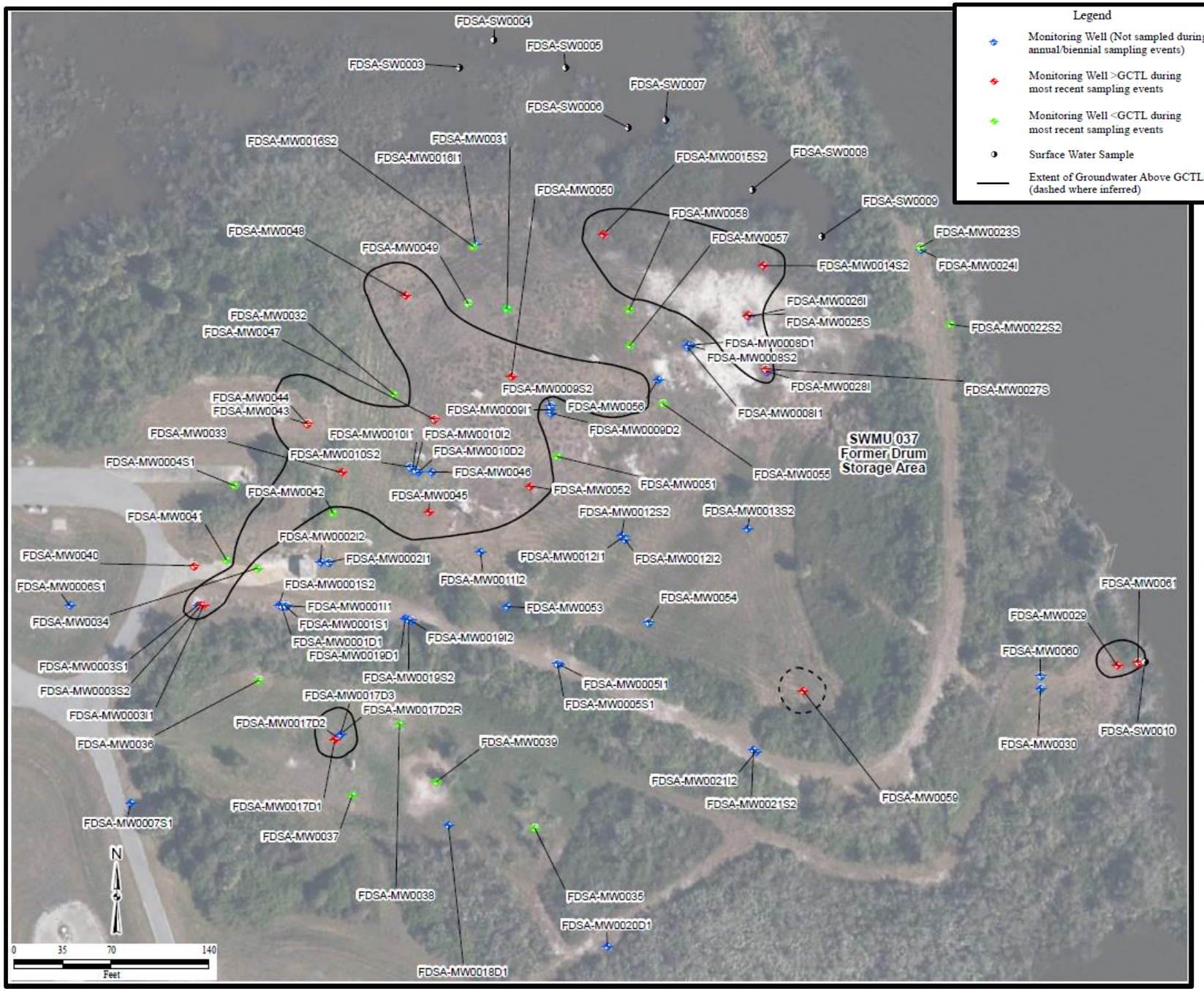
FDSA IGWM Results 40’-50’

Legend

- Monitoring Well Below GCTL
- Monitoring Well Exceeds GCTL
- Extent of Groundwater Above GCTLs

Notes:
All results are in micrograms per liter (µg/L).
Blue=Exceeds NADC
Yellow=Exceeds GCTL

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Current Overall Groundwater Plume

- Surface water sampling was conducted in 2021 based on TCE and/or VC concentrations exceeding the GCTLS in the monitoring wells adjacent to the OFW to evaluate possible discharge to the OFW.
- Eight surface water samples were collected near the shoreline from a non-motorized boat.
- Surface water samples were non-detect for site COCs (TCE, cDCE, tDCE, and VC). Based upon these surface water results, it was concluded that the OFW had not been impacted by site COCs

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M-K Trend Analyses

Well ID (FDSA-)	Screened Interval (ft bls)	TCE	cDCE	VC
Sample Depths 0 to 10 ft bls				
MW14S2	2-12	No Trend	--	--
MW15S2	1-11	No Trend	--	--
MW16S2	2-12	No Trend	--	--
MW0061	2-12	Stable	--	--
Sample Depths 10 to 20 ft bls				
MW03S2	8-18	--	--	No Trend
MW025S	5-15	Increasing	--	--
MW027S	5-15	Probably decreasing	--	--
MW0029	10-20	No Trend	--	--
MW0047	10-20	Probably Increasing	--	--
MW0048	10-20	No Trend	--	--
MW0052	10-20	No trend	--	--
MW0059	10-20	No Trend	No Trend	--
Sample Depths 20 to 30 ft bls				
MW0033	20-30	Decreasing	--	--
MW0044	20-30	No Trend	--	--
MW0045	20-30	Probably Increasing	--	--
MW0050	20-30	Increasing	--	--
Sample Depths 40 to 50 ft bls				
MW17D1	42-47	--	Increasing	--

Notes

-- indicates M-K analysis not conducted; analyte less than GCTL

- *Data gathered for M-K analysis was from baseline event through most current sampling event.*

ckage outdated.

Statistical Analyses (M-K, cont.)

- TCE:
  - When only the last six sampling events are evaluated, the trend at:
    - MW14S2 (originally no trend) is stable;
    - MW15S2 (originally no trend) is probably decreasing;
    - MW16S2 (originally no trend) is stable;
    - MW0033 (originally probably decreasing) is increasing; (Slightly above GCTL)
    - MW0044 (originally no trend) is stable;
    - MW0045 (originally probably decreasing) is decreasing.
    - MW0052 (originally no trend) is stable; and
    - MW0059 (originally no trend) is increasing; (Now above NADC)
  - cDCE
    - MW17D1 (originally decreasing) is increasing
  - All other trends remained unchanged.

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Conclusions/Recommendations

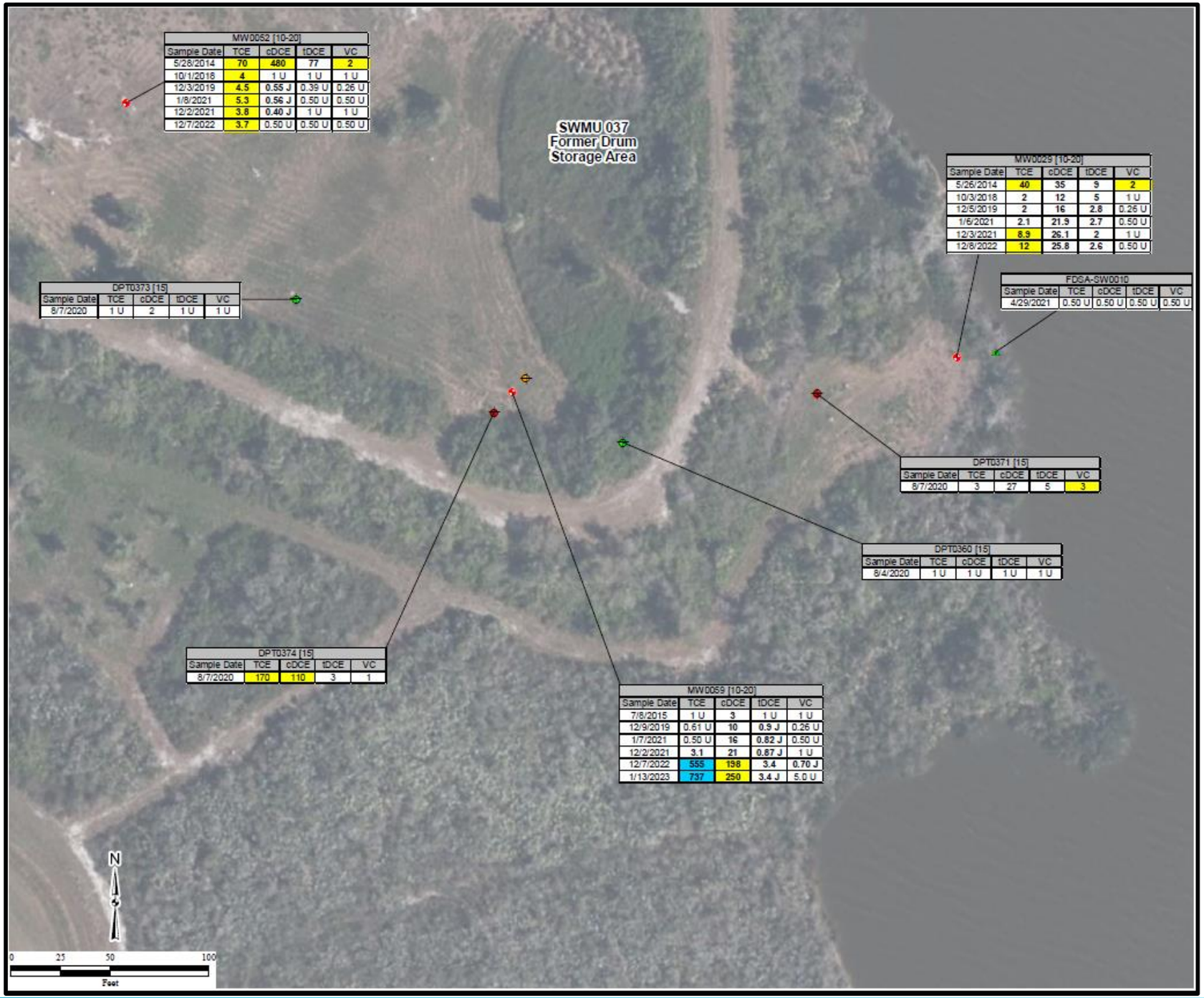
- Prior to the annual sampling event, results remained below the NADC since the air sparge system was shut down in 2016/2018.
- COC concentrations:
  - 0-10’ depth interval – TCE only analyte detected. MW14S2 and MW15S2 did report increased TCE concentrations. M-K trend analysis showed concentrations are stable/decreasing.
  - 10-20’ depth interval – TCE and cDCE only analytes detected. Slight increase TCE concentrations in three monitoring wells (MW025S, MW027S, and MW0029) and significant increase of TCE and cDCE concentrations at MW0059. M-K trend analysis ranged from decreasing to increasing.
  - 20-30’ depth interval – TCE only analyte detected. Slight increase TCE concentrations in two monitoring wells (MW0033 and MW0050). M-K trends are generally increasing.
  - 40-50’ depth interval - All COC concentrations below GCTLs with the exception of cDCE at MW17D1. TCE concentrations in this well has decreased while cDCE concentrations have increased suggesting that reductive dechlorination is occuring . M-K trend for cDCE is increasing.
- Continue IGWM

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MW0059 Proposed Investigation

- Following the next round of sampling (December 2023), one soil core will be collected to a depth of 30 ft bgs near MW0059 for lithologic characterization.
  - Following evaluation of the soil core, up to five days of a DPT groundwater investigation around the monitoring well will be conducted. DPT locations and sampling intervals will be selected based on evaluation of the subsurface geology (soil core).
  - The proposed DPT locations will be presented as a basket item at the next KSCRT meeting.
- The investigation and analytical data will be presented to the KSCRT via the 2024 IGWM Report and associated Advance Data Package.

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MW0059 Proposed Investigation (cont.)

Legend

- Monitoring Well >GCTL during most recent sampling event
- Monitoring Well <GCTL during most recent sampling event
- Surface Water Sample
- DPT Sample >GCTL during most recent sampling event
- DPT Sample <GCTL during most recent sampling event
- Proposed DPT Soil Core Location

Notes:
Blue=Exceeds NADC
Yellow=Exceeds GCTL
cDCE=cis-1,2-dichloroethene
DPT=direct push technology
ft bgs=feet below ground surface
GCTL=Groundwater Cleanup Target Level
J=Estimated Value
NADC=Natural Attenuation Default Concentration
TCE=trichloroethene
U=Not Detected
VC=vinyl chloride

Proposed FDSA 2023/2024 Program

- Semi Annual sampling of MW0061 to occur in December 2023 and July 2024 for site COCs (TCE, cDCE, tDCE and VC)
- Biennial sampling event to occur in December 2023 for site COCs
- Conduct additional investigation at MW0059 following the next sampling event.

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Proposed FDSA 2023/2024 IGWM Sampling Schedule

Well ID (FDSA-)	Sampling Frequency
MW02I2 [33-38]	Biennial
MW03I1 [21-26]	Biennial
MW03S2 [8-18]	Annual
MW08S2 [3-13]	Biennial
MW09S2 [3-13]	Biennial
MW14S2 [2-12]	Annual
MW15S2 [1-11]	Annual
MW16S2 [2-12]	Annual
MW17D1 [42-47]	Annual
MW023S [10-20]	Biennial
MW025S [5-15]	Annual
MW027S [5-15]	Annual
MW0029 [10-20]	Annual
MW0031 [5-15]	Annual
MW0032 [20-30]	Biennial
MW0033 [20-30]	Annual
MW0034 [20-30]	Annual
MW0035 [40-50]	Annual
MW0036 [40-50]	Annual
MW0037 [40-50]	Biennial
MW0038 [40-50]	Annual

Well ID (FDSA-)	Sampling Frequency
MW0039 [40-50]	Annual
MW0040 [10-20]	Annual
MW0041 [30-40]	Biennial
MW0042 [10-20]	Biennial
MW0043 [10-20]	Biennial
MW0044 [20-30]	Annual
MW0045 [20-30]	Annual
MW0046 [30-40]	Biennial
MW0047 [10-20]	Annual
MW0048 [10-20]	Annual
MW0049 [20-30]	Biennial
MW0050 [20-30]	Annual
MW0051 [20-30]	Annual
MW0052 [10-20]	Annual
MW0054 [10-20]	Biennial
MW0055 [20-30]	Annual
MW0056 [10-20]	Biennial
MW0057 [20-30]	Annual
MW0058 [10-20]	Annual
MW0059 [10-20]	Annual
MW0061 [2-12]	Semi-Annual

- No changes to sampling network are recommended.

Notes:
FDSA = Former Drum Storage Area

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Test Consensus

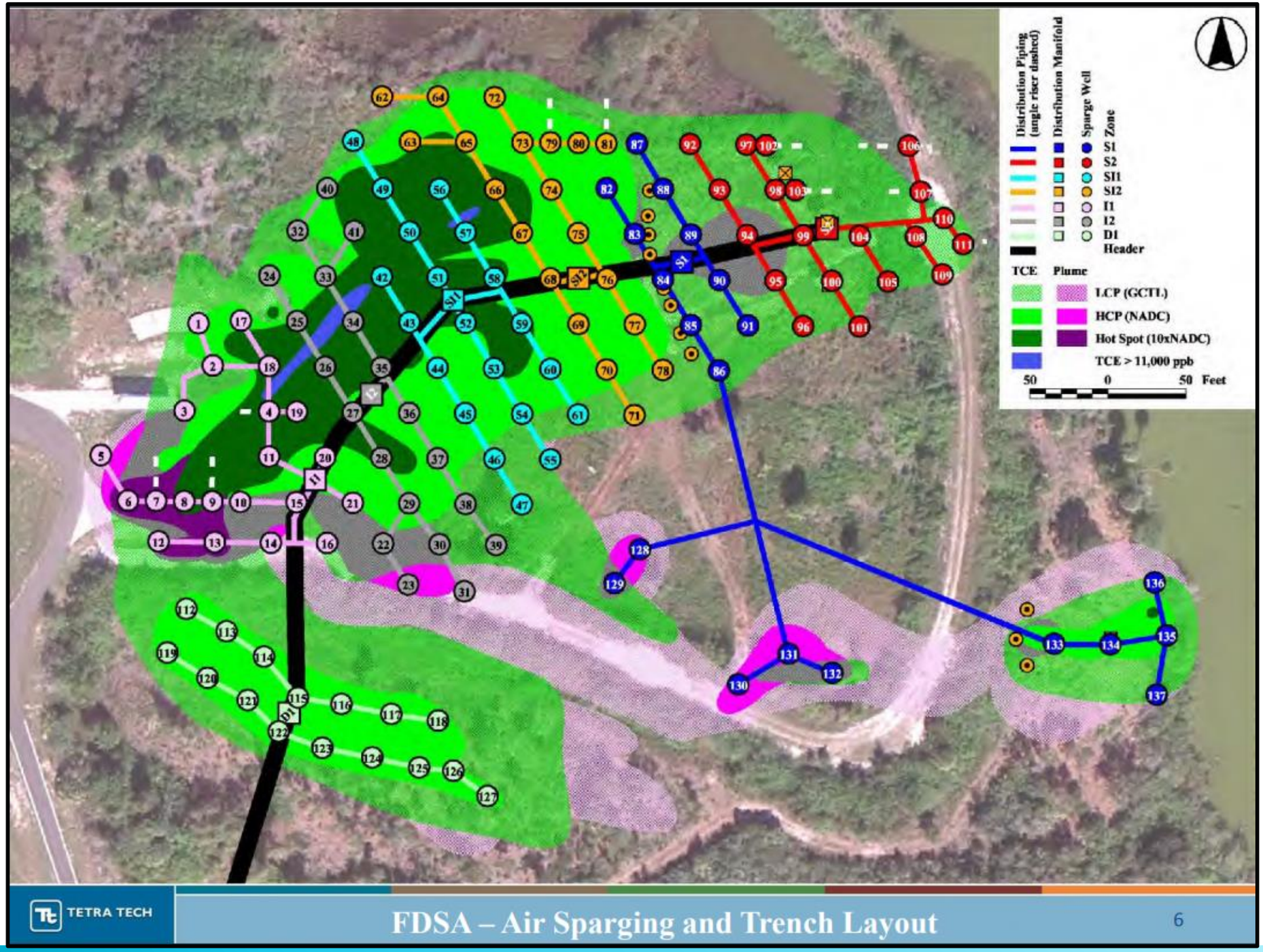
- 2023 FDSA Sampling Plan
  - Semi-annual sampling of 1 well (MW0061) for TCE, cDCE, tDCE, and VC – December 2023 and July 2024
  - Biennial Event sampling of 41 wells for TCE, cDCE, tDCE, and VC in December 2023
  - Annual water level data from 72 wells
- FDSA DPT Investigation
  - Collect one soil core in the vicinity of MW0059 from the proposed location.
- FDSA Exit Strategy
  - Continue monitoring to evaluate natural attenuation and concentration trends.
  - Evaluate optimization of monitoring program on annual basis.

This Advance Data Package was prepared for NASA to aid in evaluation of site conditions and remedial actions. This is not a decision document. New information may come to light that makes this Advance Data Package outdated.

Questions?

Slides provided below for additional information

This Advance Data Package was prepared for NASA to aid in evaluation of site conditions and remedial actions. This is not a decision document. New information may come to light that makes this Advance Data Package outdated.



FDSA – Air Sparging and Trench Layout

Air Sparge System Layout

- Discuss if AS wells have been abandoned.
- Potential to reactivate zone S1 if DPT investigation identifies >NADC plume migrating towards OFW.

This Advance Data Package was prepared for NASA to aid in evaluation of site conditions and remedial actions. This is not a decision document. New information may come to light that makes this Advance Data Package outdated.

Revision 1 Meeting Minutes for November 30, 2023

Attendees:

1. TJ Touran/FDEP
2. Bob Kline/NASA
3. Ryan O'Meara/NASA
4. Deda Johansen/NASA
5. Anne Chrest/NASA
6. Chris Adkison/NASA
7. Michelle Moore/NEMCON
8. Mark Jonnet/Tetra Tech
9. Mark Speranza/Tetra Tech
10. Laura Barrett/Tetra Tech
11. Theresa Thompson/Tetra Tech
12. Jennifer Gootee/AECOM
13. Linnea King Clark/AECOM
14. Matt Zenker/AECOM
15. Richard Smith/HGL
16. Jason Bublitz/HGL
17. Robert Lynch/HGL
18. James Montague/HGL
19. Robert Lynch/HGL
20. Michael Morris/HGL
21. Jennifer Byrd/HGL
22. Megan Matteazzi/HGL

2311-M01 Michelle Moore/NEMCON

Meeting Minutes and Miscellaneous Items

Objective:

Test Team consensus on the meeting minutes from the October 2023 Kennedy Space Center (KSC) Remediation Team (KSCRT) meeting and reviewed open action items for possible closure.

Discussion:

Team consensus was reached that Revision 1 of the meeting minutes and action/decision items for the October 2023 KSCRT meeting will become final. Team members acknowledged and did not object to the fact that these meeting minutes may become public as part of a final report at a later date **(2311-D01).**

The following open action items were reviewed and closed out:

Industrial Area Long-Term Monitoring (LTM), February 2021 (Orsino Storage Yard [ORSY] SWMU #096 Site): The Florida Department of Environmental Protection **(**FDEP) inquired about past results for monitoring well ORSY-DRM-MW0001I. The National Aeronautics and Space Administration (NASA) stated they will

investigate the historical sampling results and get back with the Team.

NASA compiled the historical data, and the findings were presented in the April 2023 KSCRT meeting to close this action item out **(2102-A07).**

Industrial Area LTM, February 2021 (Environmental Health Facility [EHF] SWMU #079 Site): FDEP and NASA discussed the EHF site. NASA stated that the monitored natural attenuation (MNA) program is routinely optimized, but this site was never included in an engineering evaluation process. Mounding takes place at this location, and a building was removed in the past few years. NASA took an action item to review the sampling data in the RFI for this location.

NASA compiled the historical data, and the findings were presented in the April 2023 KSCRT meeting to close this action item out **(2102-A08).**

Industrial Area LTM Building M7-505 site (SWMU #031), February 2021: NASA took an action item to investigate if there are deeper data points around the location of MW0033 at this site.

NASA compiled the historical data, and the findings were presented in the April 2023 KSCRT meeting to close this action item out **(2102-A10).**

Industrial Area LTM, February 2021 (GSA Seized Property [GSSP] Site): FDEP inquired if this site was delineated to the northwest of the lake, and if we have vertical delineation at this location. NASA stated a site characterization was performed in 2012. In 2009, Direct Push Technology (DPT)55 was placed on the west side of the pond (west of MW0035) and DPT56 was located on the east side of the pond (20ft northwest of the location of monitoring wells MW0033, MW0034, and MW0035). On the west side there were no detections of contaminants of concern, and on the east side there were low detections. Surface water was also sampled here. NASA took an action item to provide this data to FDEP for reference following the meeting.

NASA compiled the historical data, and the findings were presented in the April 2023 KSCRT meeting to close this action item out **(2102-A11).**

Industrial Area LTM, February 2021 (KARS Park 1 Site): FDEP inquired if this was a skeet range previously? NASA stated there was a rifle/pistol range with a skeet range to the west (reference slide 154). FDEP inquired on the groundwater in the rifle/pistol range area? NASA stated that the groundwater was not monitored in that area. Tetra Tech pulled up the old wells in a previous presentation figure during the meeting. The only well shown in the area of discussion was in the lead shot area (KP1-MW0007). FDEP stated they would like to know what happened west of LOC 9 if NASA can provide that data. NASA took an action item to investigate this.

NASA compiled the historical data, and the findings were presented in the April 2023 KSCRT meeting to close this action item out **(2102-A12).**

Industrial Area (IA) LTM Update, March 2022: FDEP requested a brief letter report with the findings to support discontinuing the MNA at this Orsino Storage Yard (OSRY) (SWMU 004) site for groundwater. NASA confirmed they would provide this.

The letter was submitted to FDEP by NASA to close this action item out **(2203-A05).**

2311-M02 Jason French & TJ Touran/FDEP

FDEP Program Update:

FDEP representative TJ has conducted a comprehensive review of all the outstanding documents to make sure he has a good handle on what FDEP has in-house for review.

The Center-wide 2022 Per- and polyfluoroalkyl substances (PFAS) document and Center-wide PFAS Confirmatory Sampling Report (CSR) were sent out for contractor review.

FDEP lost another person to the Department of Defense (DoD). TJ has more sites as a result of this. In addition, KSC, Cape Canaveral

Space Force Station (CCSFS), and Patrick Air Force Base (PAFB) are all very active remediation programs.

TJ is working on priority documents identified by NASA. The No Further Action (NFA) request for the West Crawler Park Site (WCPS) submitted in January 2022 is under review to resolve and ensure the correct language is being used. Please let TJ know what other documents reviews would serve the immediate needs of the team. If NASA can prioritize the list of documents, this will ensure that FDEP focuses first on the right documents.

NASA offered that when we can obtain consensus in the team meeting, NASA uses those decisions as our marching orders for project development. If FDEP has later comments, NASA addresses those comments upon receipt.

FDEP is responding to dewatering requests as quickly as possible.

NASA clarified for the Team that when on site projects have dewatering plans for site operations, NASA requests the contractors keep discharge locations within the plume area and prevent from discharge into the adjacent surface waters. For team members edification, NASA is working with FDEP to obtain concurrence for routine dewatering manholes that we just maintain our current approach but only submit for ones that are large construction projects. This might help with the submittal load.

2311-M03 Anne Chrest/ NASA

NASA KSC Remediation Program Update

Objective: Provide a program update.

Discussion:

From NASA KSC Remediation Program there is not much to share. NASA went over staffing changes and the introduction of Bob Kline as the Branch Chief for the KSC Environmental Assurance Branch (EAB). Bob will be with us as the NASA EAB Branch Chief for the next year.

2311-M06 Jason Bublitz/HGL

Fluid Servicing Road Area Groundwater Monitoring (SWMUs 37 and 102)

Objective: This briefing is for the Fluid Servicing Road Area (FSRA) Interim Groundwater Monitoring (IGWM) at the Former Drum Storage Area (FDSA), Solid Waste Management Unit (SWMU) 37, and the Propellants Support Building Area (PSBA, SWMU 102. The objective of the ADP is to summarize the site description and history, discuss sampling results, present recommendations, and obtain consensus for both the PSBA and the FDSA.

Discussion:

IGWM at PSBA
The site-wide IGWM activities at PSBA were completed in December 2022 and results were presented along with a summary of the site assessment history and background. The sampling and analysis plan specified the sampling of 8 annual monitoring wells for the contaminants of concern (COC): trichloroethene (TCE), cis-1,2-dichloroethene (cDCE), trans-1,2-dichloroethene (tDCE), and vinyl chloride (VC). Groundwater level measurements were collected from 36 wells. During the final phase of the 5-year plume assessment, direct-push technology (DPT) samples were also collected at 30 locations.

Groundwater flow at the site is away from the topographically higher areas. In the 30-40 feet (ft.) below ground surface (bgs) interval, this is to the east or the west. In the 40-50 ft. bgs interval, this is to the east, west or south.

VC is the only COC detected above its groundwater cleanup target level (GCTL) in monitoring well samples. TCE, cDCE and VC were detected above GCTLs in DPT groundwater samples, with some cDCE and VC results also above their respective natural attenuation default concentrations (NADC). There are two unconnected plumes; one on the north of the site and an east-to-west plume south of that. The data evaluation indicates that concentrations of VC are generally stable in both the north and east/west plumes for the 30 to 40 and 40 to 50 ft bgs intervals. The high and low concentration plumes have migrated to the west/southwest. The DPT investigation provided additional data showing the western migration of the plume.

FDEP inquired if there was a hypothesis explaining the increasing trend in the wells to the west-southwest? HGL hypothesizes that it is breakdown of TCE into daughter products as groundwater on that side of the divide migrates to the west.

FDEP inquired if there were plans to sample on the west end of the plume? HGL stated they have sampled as far west as possible but couldn't get the drill rig any further west because of wetlands. If we have physical barriers, FDEP understands that.

FDEP mentioned that one of the challenges faced with significant changes in trends is explaining them. Statistical rigor is needed to test hypotheses. In the remedial alternatives evaluation, please address "why is this happening?" Are we seeing the concentrations in center going lower and edges higher?

HGL provided it is currently lower on edge. FDEP asked if trend wise is it increasing on the interior and exterior? HGL clarified a decreasing trend to the west and to the east. We can do better summarizing that we have completed modeling to match that the site evolved how we thought the site was going to.

NASA showed the groundwater model from 2011 in real time to provide background on the site and modeled groundwater flow over time.

Recommendations made were as follows:

- Continue annual and biennial interim groundwater monitoring.

- The 5 Year DPT sampling effort confirmed the presence of greater than NADC (>NADC) plumes and that plumes have been migrating west/southwest. It is recommended to conduct a Remedial Alternatives Evaluation.

The Team reached consensus for the 2023-2024 PSBA Sampling Plan to include the sampling of8 annual wells and 14 biennial wells to be sampled in December 2023 for TCE, cDCE, tDCE and VC, and collection of annual water level data from 37 wells **(2311-D05).**

The next steps for this site are to conduct a Remedial Alternatives Evaluation to determine an appropriate path forward and to evaluate optimization of the monitoring program on annual basis.

IGWM at FDSA
The site wide IGWM activities at FDSA were completed from June 2022 to June 2023 and results are presented along with a summary of the site assessment history and background. The sampling and analysis plan specified semi-annual sampling of one well, annual sampling of 27 monitoring wells and groundwater level measurements from 78 wells.

Prior to the biennial sampling event, results have remained below the NADC since the air sparge system was shut down in phases from 2016 to 2018. COC concentrations are stable/decreasing in the 0 to 10 ft interval below ground surface (bgs), although two of the four monitoring wells did report increased TCE concentrations. In the 10 to 20 ft depth interval, COC concentrations ranged from decreasing to increasing. Slightly increased TCE concentrations were reported in three of the eleven monitoring wells and a significant increase in TCE and cDCE concentrations were observed at MW0059. In the 20 to 30 ft depth interval, COC trends were generally increasing. There were slight TCE increases in two of the eight monitoring wells. In the 40 to 50 ft interval, COCs were generally increasing in the five annual monitoring wells. All COC concentrations were below groundwater cleanup target levels (GCTLs) with the exception of cDCE at one well. TCE concentrations in this well decreased while cDCE concentrations have increased, suggesting that reductive dichlorination is occurring.

At MW0059, TCE concentrations rose from 3.1 micrograms per liter (µg/L) in December 2021 to 555 µg/L in December 2022. To

confirm the result, the well was re-sampled in January 2023 and the TCE result was 737 µg/L. Based upon the significant increase in TCE and cDCE concentrations, following the next round of sampling (December 2023), one soil core will be collected to a depth of 30 ft bgs near MW0059 for lithologic characterization. Following the evaluation of the soil core, up to five (5) days of direct-push technology (DPT) will be conducted around MW0059. The proposed DPT locations will be presented as a basket item at the next KSCRT meeting.

FDEP inquired if the same lab conducted the analysis in 2021 and 2022? HGL confirmed it did. FDEP inquired if there are any activities in this specific area that suggest a TCE source? HGL responded no, that there used to be helium tank pressure testing here, but nothing there currently.

FDEP inquired that prior to 2014, were there any results in this area? Figures from the Site Characterization were reviewed, which show a high concentration plume had been delineated in this general area. There were air sparge wells in that high concentration area. NASA noted that we have learned through site assessments that conditions can change within a matter of feet, which is the reason for recommending additional investigation. There is potentially some mass just beyond where we ended the air sparge.

NASA still has air lines running back to a manifold at the Converter Compressor Building. If we reactivate the system to treat the MW0059 area, we could run it off the Component Cleaning Facility East site.

The following recommendations were made:

- Continue Annual/Biennial IGWM of TCE, cDCE, tDCE, and VC.
- Conduct DPT investigation in the vicinity of MW0059.

The Team reached consensus on the 2023 FDSA Sampling Plan that includes the semi-annual sampling of 1 well (MW0061, near Outstanding Florida Waters [OFW]) for TCE, cDCE, tDCE, and VC in December 2023 and July 2024, the biennial event sampling of 41 wells for TCE, cDCE, tDCE, and VC in December 2023, and the collection of annual water level data from 78 wells **(2311-D06).**

2311-M12 Chris Adkison/ NASA

CAMP Deliverable Look Ahead

The CAMP has been updated. Looking ahead, we have a few that we will be submitting in the next couple of days to FDEP. Sometimes there can be a delay in NASA's internal approvals for release due to the holidays and, as a result, some reports may get bumped to January 2024.

FDEP inquired when to expect the Site Rehabilitation Completion Report for SWMU #104, the former Headquarters Building since they understand it should be eligible for closure. NASA said the Interim Measures Report is in FDEP's queue for review. FDEP asked that NASA flag that document as a priority on the next CAMP submittal **(2311-A03).**

Results: Action Item 2311-A03

2311-M13 KSCRT

Miscellaneous Discussion

2024 Meeting Dates (will continue the hybrid option in 2024)

- February 6th and 7th
- June 4th and 5th
- October 1st and 2nd

NASA's Anne Chrest will get with John Langett on the Space Force to coordinate future meeting dates.

FDEP

15-20-minute FDEP update by Program Manager
Anne Chrest is the team leader next meeting so email topics to this individual after the meeting is over.