

**Douglas Road Landfill Superfund Site
Annual Groundwater Sampling Report
Annual Event – 3rd Quarter 2020
Mishawaka, Indiana
Patriot Project No. 16-1731-04E**

Prepared For

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**DOUGLAS ROAD LANDFILL SUPERFUND SITE
ANNUAL GROUNDWATER SAMPLING REPORT
THIRD QUARTER 2020
MISHAWAKA, INDIANA
PATRIOT PROJECT NO. 16-1731-04E**

1.0 INTRODUCTION

Patriot Engineering and Environmental, Inc. (Patriot) was retained by the Indiana Department of Environmental Management (IDEM) to conduct post-closure operations and maintenance (O&M) activities, including semi-annual groundwater sampling and analysis, at the Douglas Road Landfill. A Site Vicinity map is provided as Figure 1.

The purpose of this report is to provide information regarding the annual groundwater sampling event, which took place in the Third Quarter of 2020. The event included an inspection of the monitoring well network; measurements of the depths to water and total well depths in each well, and the collection and analysis of groundwater samples for volatile organic compounds (VOCs), arsenic, iron, and lead.

2.0 MONITORING WELL NETWORK

The groundwater monitoring well network includes thirty-six monitoring wells (MW) and five extraction (EXT) wells which are associated with the Groundwater Extraction System (GES). As a result of the previous GES shut down, the extraction wells were not sampled during this event. The groundwater monitoring wells are classified as either shallow (S), intermediate (I), or deep (D) depending on the depth of the interval where they are screened. The shallow wells are screened at depths ranging from 15 to 30 feet below ground surface (bgs), intermediate wells are screened at 35 to 55 feet bgs, and the deep wells are screened at 60 to 100 feet bgs.

2.1 Groundwater Network Inspection

An inspection of the groundwater monitoring network was conducted during the sampling event. In general, the monitoring well network appears to be in good condition given the age of the wells (20+ years). The conditions and any issues associated for each well were recorded on the Groundwater Sample Information Sheets included in Attachment 1. Thirty of the thirty-six wells were located and twenty-seven were able to be sampled. One well (MW-01) had low water level and therefore a bailer was used to collect a VOC sample instead of low-flow sampling. There was not enough water in the well to provide a sample for metal analysis. Nine wells have either been previously abandoned, damaged, had blockage that prevented water withdrawal, unable to be located, and/or were found to be “dry,” and therefore was not sampled. These wells include:

- MW-04S – well was “dry”
- MW-06I – previously abandoned
- MW-08S – previously abandoned

- MW-08I – previously abandoned
- MW-09S – could not be located (believed to have been located in the woods that have been bulldozed)
- MW-09I – could not be located (believed to have been located in the woods that have been bulldozed)
- MW-11S – blockage
- MW-13S – blockage
- MW-14I – well was “dry”

2.2 Field Procedures

The annual groundwater sampling event was performed on August 18-20, 2020. Prior to sampling, the depth to water and total well depth was measured for the wells, using an electronic water level indicator. This data is summarized in Table 1. A potentiometric surface map was created for the shallow well network, using the August 2020 data, and is included as Figure 2. This data indicated that the groundwater flow direction is towards the southwest, which is consistent with historical results.

Groundwater sampling was then conducted for each well using low-flow purging and sampling techniques in accordance with IDEM guidance. Well MW-01 was sampled with a dedicated, disposable polyethylene bailer as noted previously, due to insufficient water to facilitate low-flow sampling. Discharged groundwater was directed through dedicated tubing to a Horiba™ U-22 multi-parameter water quality meter equipped with a flow cell. Purged groundwater was discharged from the flow cell into a five-gallon bucket. Static water levels were measured continuously using a water level meter to ensure drawdown of less than 0.3 feet during purging.

During sampling, water quality parameters consisting of temperature, specific conductivity, pH, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity were recorded at three minute intervals on the Groundwater Sample Information Sheets (Attachment 1) for each well to determine stability. Groundwater parameters were considered stable when three consecutive readings were within the acceptable range as identified on the Groundwater Sample Information Sheets.

2.3 Groundwater Sampling

Once the water quality parameters were determined to have stabilized, the discharge tubing was disconnected from the flow cell and groundwater sampling was initiated. Samples were first collected for VOC analysis, followed by samples for metals analysis. Samples for VOC analysis were collected directly into 40 milliliter vials preserved with hydrochloric acid. Samples collected for dissolved metals analysis were filtered through a 0.45 micron in-line capsule filter before being collected in the pre-preserved laboratory supplied containers.

The samples were shipped overnight to Pace National Laboratory for Testing & Innovation (Pace National) in Mt Juliet, Tennessee under proper chain-of-custody control,

and analyzed for VOCs via SW-846 Method 8260B and dissolved arsenic, iron, and lead via SW-846 Method 6010B using Level IV data quality objectives.

3.0 GROUNDWATER MONITORING RESULTS

The laboratory data was reviewed and validated following IDEM's data validation guidelines. The data was determined to be acceptable for use with qualification. The data validation memorandum is presented in Attachment 2. The laboratory data report is provided in Attachment 3.

3.1 Remedial Action Goals and Objectives

The remedial action objectives for the groundwater as outlined in the Site Remedial Action Final Design, prepared by CH2MHill, dated January 1997 (Final Design) is to prevent ingestion, inhalation, and dermal exposure by residential users of the groundwater containing contaminants at concentrations in excess of the U.S. EPA's Maximum Contaminant Levels (MCLs), and to prevent residents from ingesting contaminants from their public water at concentrations in excess of the maximum drinking water standards specified in 327 IAC 8. Site-specific remedial action goals, referred to as the Preliminary Remediation Goals (PRGs) in the Final Design, were established using the most stringent requirements for each contaminant of concern (COC). In some cases, the PRGs are lower than the U.S. EPA's Maximum Contaminant Levels (MCLs). COCs identified in the Final Design and the most recent Sampling and Analysis Plan (SAP), prepared by KERAMIDA, dated July 22, 2016 include the following VOCs; vinyl chloride, chloroethane, 1,1-Dichloroethane, 1,2-Dichloroethane, benzene, and trichloroethylene (TCE), and the metals; arsenic, lead, and iron.

3.2 VOC Results

Vinyl chloride was reported in well MW-16S at a concentration of 1.25 ug/l, which is above the PRG of 1.0 ug/l. The concentration reported during this sampling event is slightly higher than the concentration reported during the 2019 annual event of 1.12 ug/l. All other VOC concentrations were below the laboratory detection limits (BDLs) in the samples collected during this event. These results are consistent with the historical sampling data that reveals no concentrations of VOCs in excess of Site Closure Goals since at least April 2013 with the exception of vinyl chloride. Current and historic VOC results are summarized in Table 2.

3.3 Metal Results

The laboratory detection limit for arsenic is 10 micrograms per liter (ug/l), which exceeds the PRG of 5 ug/l. The laboratory detection limit was exceeded for arsenic in three wells (MW-03S, MW-06SR and MW-15S) during this sampling event. During the previous sampling event in November 2019, two wells (MW-06SR and MW-16S) exhibited arsenic concentrations above the laboratory detection screening level. MW-03S and MW-06SR are located within the landfill boundary, while MW-15S is located off-Site, approximately ½ mile southwest of the landfill's south property line. MW-03S exhibited the highest

concentration of arsenic at 11.7 ug/l, followed by MW-06SR at 11.1 ug/L and the MW-15S duplicate at 10.8 ug/l. No other wells had concentrations of arsenic above the detection limit. The detected concentrations in MW-03S, MW-06SR and MW-15S duplicate also exceed the MCL for arsenic, which is set at 10 ug/l. The arsenic concentration in MW-03S was below the laboratory detection limits (BDL) during the last sampling event but had a concentration of 14.3 ug/l in November 2018. The arsenic concentration in MW-06R is slightly higher than the previous sampling event in November 2019 (10.6 ug/l). The arsenic concentration in the sample collected from well MW-15S was BDL in the field sample, but the MW-15S duplicate exhibited an arsenic concentration of 10.8 ug/l. MW-15S has not been sampled since April 2016 at which time the well had an arsenic concentration of 18.4 ug/l. The arsenic concentration in MW-16S was BDL compared to a concentration of 27.4 ug/l in 2019.

There were no detections of lead above the laboratory detection limit (6.0 ug/l) during this sampling event. In November 2019, lead was reported in MW-16S at a concentration of 11.8 ug/l. Historically, lead was reported in MW-16S in April 2018 at a concentration of 14.2 ug/L but was below the laboratory detection limit of 5.0 ug/L in November 2018. MW-16S is located approximately ½ mile southwest from the landfill's south property line. While no PRG for lead was established in the Final Design or discussed in the current SAP, this concentration is below the MCL for lead of 15 ug/l.

Dissolved iron was detected in twenty-two wells. The PRG for iron of 1,000 ug/l was exceeded in the following eight wells: MW-03S, MW-10S, MW-10I, MW-14S, MW-15S, MW-16s, MW-16I and MW-17S. Detected iron concentrations ranged from a high of 12,200 ug/l in MW-15S to a low of 113 ug/l for MW-02I. The US EPA non-enforceable water quality standard for Iron, which is referred to as a secondary maximum contaminant level (SMCLs), is 300 ug/l.

Fifteen wells sampled this quarter exceeded the SMCL for iron. Seven wells exceeded the SMCL for iron, but were below the PRG: MW-01I, MW-05I, MW-06SR, MW-07S, MW-12S, MW-12I, and MW-13I.

Current and historic metal results (dissolved iron, dissolved arsenic, and dissolved lead) are summarized in Table 3.

4.0 CONCLUSIONS

Thirty out of the thirty-six groundwater wells within the monitoring well network were inspected and twenty-seven were sampled during the 2020 annual groundwater sampling event. This was the fifth round of sampling that Patriot conducted since assuming O&M contract responsibility in June 2017.

The monitoring well network appears to be in good condition given the age of the wells (20+ years old). Concerns with the monitoring well system include missing covers on wells MW-05S and MW-01S, micro pumps from previous consultants stuck in wells MW-01S, MW-11S and MW-13S preventing sampling, and well MW-04S and MW-14I are dry. The

groundwater flow direction in August 2020 was toward the southwest which is consistent with historical results.

Vinyl chloride was reported in well MW-16S at a concentration slightly above the PRG of 1.0 ug/l. The vinyl chloride concentration was slightly higher than the concentration reported in 2019. No other VOCs were present in any wells above the laboratory detection limits for this round of sampling.

The laboratory detection limit for arsenic is 10 ug/l which exceeds the PRG of 5 ug/l. The PRG for arsenic was exceeded in at least three wells (MW-03S, MW-06SR, and MW-15S). These concentrations also exceed the MCL for arsenic, which is set at 10 ug/l. MW-03S and MW-06SR are located within the site boundaries, while MW-15S is located off-site, approximately ½ mile southwest of the landfill's property line.

Dissolved lead was not detected during this sampling event in any of the twenty-seven wells.

The PRG for iron was exceeded in eight wells during the 2019 annual sampling event, with dissolved iron detected in twenty-two wells. Of the twenty-two wells where dissolved iron was present above the laboratory detection limit, fourteen wells exceeded the SMCL for iron.

We trust this submittal meets the requirements of the annual groundwater sampling report. If you have any additional questions or comment, please contact the undersigned at (317) 576-8058.

Respectfully submitted,

Patriot Engineering and Environmental, Inc.

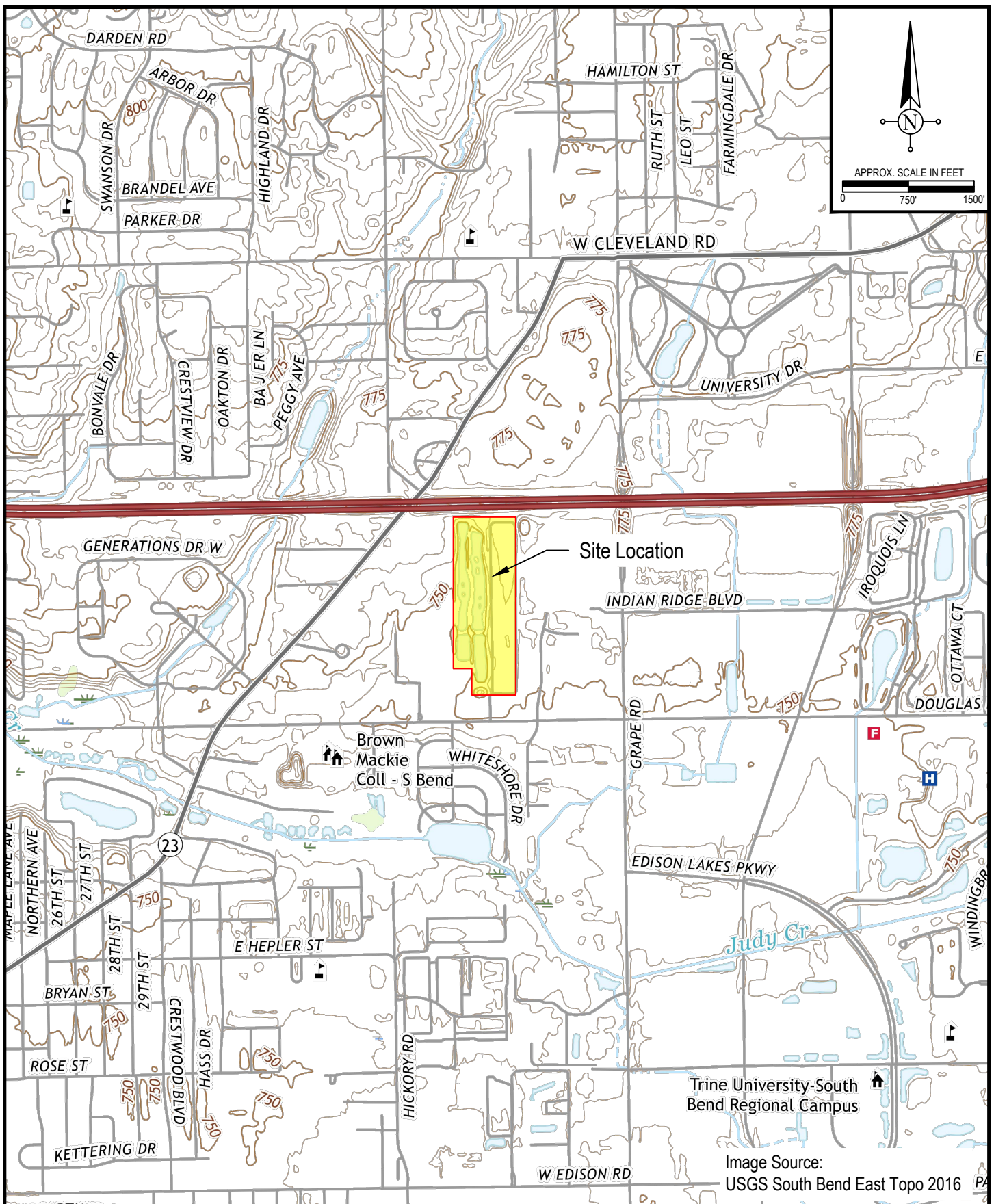


Kendra Gutowski
Staff Engineer



Steven P. Sittler, P.G.
Senior Project Manager

FIGURES



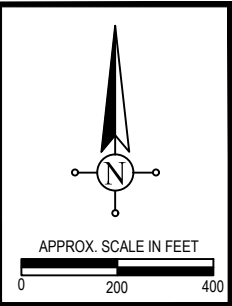
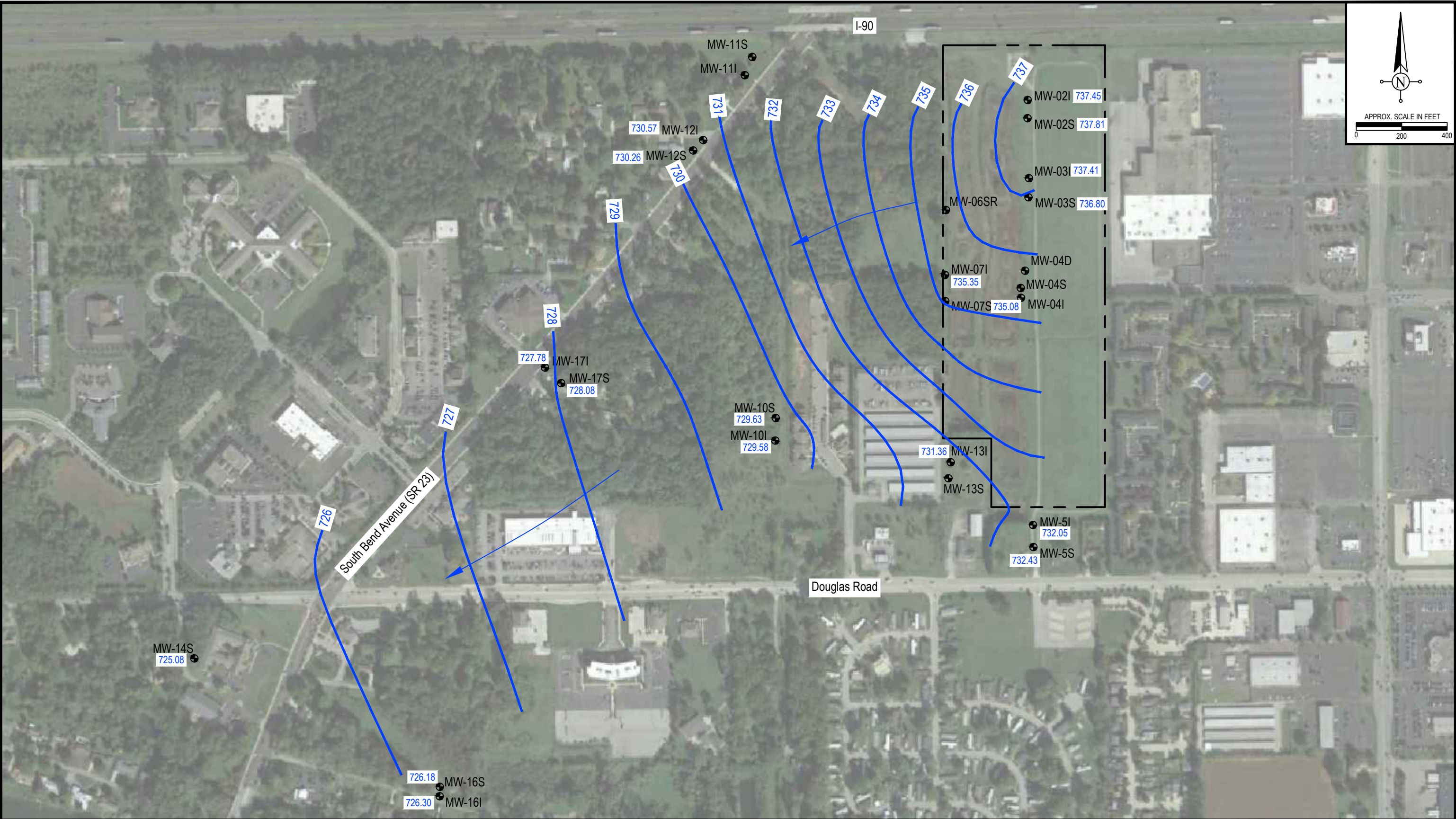
Patriot Engineering &
Environmental, Inc.

Project: Douglas Road Landfill Superfund Site
St. Joseph County
Mishawaka, Indiana

Project Number: 16-1731-04	Drawn By: J. DuMond
Date: September 19, 2017	Approved: CJ Eastman
	DWG: 16-1731-04_site

Figure 1

Site Vicinity Map



Patriot Engineering &
Environmental, Inc.

LEGEND

- Groundwater Monitoring Well
- 720.00 Groundwater Elevation
- 720 Groundwater Contour w/Elevation
- Groundwater Flow Direction
- 727.55* Groundwater Elevation Not Included in Potentiometric Surface

NOTES:

- Image Source: Google Earth 10-13-2016
- Scale as shown.

Project: Douglas Road Landfill Superfund Site
St. Joseph County
Mishawaka, Indiana

Project Number: 16-1731-04	Drawn By: J. DuMond
Date: September 2, 2020	Approved: K. Grossman
	DWG: 16-1731-04_site

Figure 2
Groundwater Potentiometric
Surface Map
August, 2020

Tables

Table 1
Groundwater Elevation Data
Fall 2019- Fourth Quarter 2019
Douglas Road Landfill Superfund Site
Mishawaka, Indiana

Well ID	Total Well Depth (ft)	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)
MW-01S	16.25	752.63	16.00	736.63
MW-01I	59.15	752.65	16.40	736.25
MW-01D	95.00	Unknown	15.90	NA
MW-02S	35.00	765.36	27.55	737.81
MW-02I	64.45	765.14	27.69	737.45
MW-03S	39.34	760.74	23.94	736.8
MW-03I	62.62	761.16	23.75	737.41
MW-04S	18.98	Unknown	Dry	NA
MW-04I	66.63	Unknown	27.78	NA
MW-04D	71.00	Unknown	21.82	NA
MW-05S	26.70	750.35	18.92	731.43
MW-05I	57.50	750.69	18.64	732.05
MW-06SR	32.25	Unknown	17.39	NA
MW-06I	NA	NA	NA	NA
MW-07S	25.35	754.02	18.94	735.08
MW-07I	66.90	754.14	18.79	735.35
MW-08S	NA	NA	NA	NA
MW-08I	NA	NA	NA	NA
MW-09S	NA	Unknown	NA	NA
MW-09I	NA	Unknown	NA	NA
MW-10S	19.95	740.35	10.72	729.63
MW-10I	60.00	740.34	10.76	729.58
MW-11S	NA	Unknown	NA	NA
MW-11I	60.00	Unknown	29.39	NA
MW-12S	38.32	758.85	28.59	730.26
MW-12I	54.30	758.75	28.18	730.57
MW-13S	NA	744.58	NA	NA
MW-13I	55	744.57	13.21	731.36
MW-14S	19.69	738.78	13.70	725.08
MW-14I	NA	738.25	NA	NA
MW-15S	11.6	Unknown	2.01	NA
MW-15I	34.75	Unknown	2.00	NA
MW-16S	11.60	728.22	2.04	726.18
MW-16I	42.50	728.65	2.35	726.3
MW-17S	32.70	751.33	23.25	728.08
MW-17I	19.96	751.37	23.59	727.78

Data acquired on August 18, 2020

NA= Not Available

MW-01S, MW-11S, MW-13s = well pump or tubing is damaged

MW-4s = well was dry

MW-06I, MW-08S, and MW-08I = previously abandoned

MW-09S, MW-09I = could not be located

Table 2
Groundwater VOC Analytical Results
Third Quarter 2020
Douglas Road Landfill Superfund Site
Mishawaka, Indiana

Sample ID	Date Sampled	Acetone	Carbon Tetrachloride	1,1-Dichloroethane	Vinyl Chloride	Remaining VOCs
MW-01S	4/23/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/2/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/25/2015	< 10	< 1.0	< 2.0	HD	BDL
	4/12/2016	< 20	< 1.0	< 1.0	HD	BDL
	9/13/2017	NS	NS	NS	NS	NS
	4/4/2018	NS	NS	NS	NS	NS
	11/13/2018	NS	NS	NS	NS	NS
	11/18/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
	8/18/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-01I	4/23/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/2/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/25/2015	< 10	< 1.0	< 2.0	HD	BDL
	4/12/2016	< 20	< 1.0	< 2.0	HD	BDL
	9/13/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	9/13/2017 ¹	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018 ¹	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/13/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/13/2018 ¹	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/18/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/18/19 ¹	< 50	< 1.0	< 1.0	< 1.0	BDL
	8/18/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
	08/18/2020 ¹	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-01D	4/23/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/2/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/25/2015	< 10	< 1.0	< 2.0	HD	BDL
	8/25/2015 ¹	< 10	< 1.0	< 2.0	HD	BDL
	4/12/2016	< 20	< 1.0	< 1.0	HD	BDL
	9/13/2017	< 50	< 5.0	< 5.0	< 1.0	BDL
	4/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/13/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/18/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-02S	4/24/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/3/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/24/2015	< 10	< 1.0	< 2.0	HD	BDL
	4/11/2016	< 20	< 1.0	< 2.0	HD	BDL
	9/13/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/14/2018	< 50	< 1.0	< 1.0	< 1.1	BDL
	11/19/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
	8/18/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-02I	4/24/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/3/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/24/2015	< 10	< 1.0	< 2.0	HD	BDL
	4/11/2016	< 20	< 1.0	< 2.0	HD	BDL
	9/13/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/14/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/19/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
	8/18/2020	< 50	< 1.0	< 1.0	< 1.0	BDL

Table 2
Groundwater VOC Analytical Results
Third Quarter 2020
Douglas Road Landfill Superfund Site
Mishawaka, Indiana

Sample ID	Date Sampled	Acetone	Carbon Tetrachloride	1,1-Dichloroethane	Vinyl Chloride	Remaining VOCs
MW-03S	4/24/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/3/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/24/2015	< 10	< 1.0	< 2.0	HD	BDL
	4/11/2016	< 20	< 1.0	< 2.0	HD	BDL
	9/13/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/14/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/19/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
	8/18/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-03I	4/24/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/3/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/24/2015	< 10	< 1.0	< 2.0	HD	BDL
	4/11/2016	< 20	< 1.0	< 2.0	HD	BDL
	9/13/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/14/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/19/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
	8/18/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-04I	4/24/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/3/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/25/2015	< 10	< 1.0	< 2.0	HD	BDL
	4/11/2016	< 20	< 1.0	< 2.0	HD	BDL
	9/13/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/14/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/18/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
	8/18/2020	< 50	< 1.0	< 1.0	< 1.0 ¹⁵	BDL
MW-04D	4/24/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/3/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/25/2015	< 10	< 1.0	< 2.0	HD	BDL
	4/11/2016	< 20	< 1.0	< 2.0	HD	BDL
	9/13/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/13/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/18/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
	8/18/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-05S	4/25/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/12/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/25/2015	< 10	< 5.0	< 2.0	HD	BDL
	4/11/2016	< 20	< 5.0	< 2.0	HD	BDL
	9/13/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/13/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/18/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
	8/18/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-05I	4/25/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/12/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	9/13/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018	NS	NS	NS	NS	NS
	11/13/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/18/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
	8/18/2020	< 50	< 1.0	< 1.0	< 1.0	BDL

Table 2
Groundwater VOC Analytical Results
Third Quarter 2020
Douglas Road Landfill Superfund Site
Mishawaka, Indiana

Sample ID	Date Sampled	Acetone	Carbon Tetrachloride	1,1-Dichloroethane	Vinyl Chloride	Remaining VOCs
MW-06SR	4/24/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	4/24/2013 ¹	< 5.0	< 5.0	< 5.0	HD	BDL
	6/3/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/25/2015	< 10	< 5.0	< 2.0	HD	BDL
	4/12/2016	< 20	< 5.0	< 2.0	HD	BDL
	9/13/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/14/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/19/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-07S	8/20/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/24/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/3/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/25/2015	< 5.0	< 5.0	< 5.0	HD	BDL
	4/12/2016	< 20	< 5.0	< 2.0	HD	BDL
	9/13/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/5/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/14/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/19/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-07I	8/18/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/24/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/3/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/25/2015	< 5.0	< 5.0	< 5.0	HD	BDL
	4/12/2016	< 20	< 5.0	< 2.0	HD	BDL
	9/13/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/5/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/14/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/19/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-09I	8/18/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/25/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/5/2014	< 5.0	124	< 5.0	HD	BDL
	9/8/2015	< 10	< 1.0	< 2.0	HD	BDL
	4/14/2016	< 20	< 1.0	< 2.0	HD	BDL
	9/13/2017	NS	NS	NS	NS	NS
	4/4/2018	NS	NS	NS	NS	NS
	11/14/2018	NS	NS	NS	NS	NS
	11/19/2019	NS	NS	NS	NS	NS
MW-10S	8/18/2020	NS	NS	NS	NS	NS
	4/25/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/12/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	9/8/2015	< 10	< 1.0	< 2.0	HD	BDL
	4/14/2016	5.2	< 1.0	< 2.0	HD	BDL
	9/13/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/5/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/19/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-10I	8/18/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/25/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/12/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	9/8/2015	< 10	< 5.0	< 2.0	HD	BDL
	4/14/2016	< 20	< 5.0	< 2.0	HD	BDL
	9/13/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	9/13/2017 ¹	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/5/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/5/2018 ¹	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/14/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/14/2018 ¹	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/19/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-11I	11/19/19 ¹	< 50	< 1.0	< 1.0	< 1.0	BDL
	8/18/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
	8/18/2020 ¹	< 51	< 1.0	< 1.0	< 1.0	BDL
	4/25/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/4/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/26/2015	< 10	< 5.0	< 2.0	HD	BDL
	4/13/2016	< 20	< 5.0	< 2.0	HD	BDL
	9/13/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-11I	11/13/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/18/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
	8/19/2020	< 50	< 1.0	< 1.0	< 1.0	BDL

Table 2
Groundwater VOC Analytical Results
Third Quarter 2020
Douglas Road Landfill Superfund Site
Mishawaka, Indiana

Sample ID	Date Sampled	Acetone	Carbon Tetrachloride	1,1-Dichloroethane	Vinyl Chloride	Remaining VOCs
MW-12S	4/25/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/4/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/26/2015	< 5.0	< 5.0	< 5.0	HD	BDL
	4/13/2016	< 20	< 5.0	< 2.0	HD	BDL
	9/14/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/13/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/18/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
	8/19/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-12I	4/25/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/4/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	4/13/2016	< 20	< 5.0	< 2.0	HD	BDL
	9/14/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/13/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/18/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
	8/19/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-13S	4/24/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/12/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	9/14/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/5/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/14/2018	NS	NS	NS	NS	NS
	11/19/2019	NS	NS	NS	NS	NS
	8/18/2020	NS	NS	NS	NS	NS
MW-13I	4/24/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/12/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	9/8/2015	< 5.0	< 5.0	< 5.0	HD	BDL
	4/12/2016	< 20	< 5.0	< 2.0	HD	BDL
	4/12/2016 ¹	< 20	< 5.0	< 2.0	HD	BDL
	9/14/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/5/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/14/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/19/2019	< 50 ^{J5}	< 1.0 ^{J3}	< 1.0 ^{J3}	< 1.0	BDL
MW-14S	4/25/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/12/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/26/2015	< 5.0	< 5.0	< 5.0	HD	BDL
	4/13/2016	< 20	< 5.0	< 2.0	HD	BDL
	9/14/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/13/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/19/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
	8/19/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-14I	4/25/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/12/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	9/14/2017	NS	NS	NS	NS	NS
	4/4/2018	NS	NS	NS	NS	NS
	11/14/2018	NS	NS	NS	NS	NS
	11/19/2019	NS	NS	NS	NS	NS
	8/19/2020	NS	NS	NS	NS	NS
MW-15S	4/23/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	4/23/2013 ¹	< 5.0	< 5.0	< 5.0	HD	BDL
	6/12/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/26/2015	< 10	< 1.0	< 2.0	HD	BDL
	8/26/2015 ¹	< 10	< 1.0	< 2.0	< 1.0	BDL
	4/13/2016	6.3	< 1.0	< 2.0	< 1.0	BDL
	9/14/2017	NS	NS	NS	NS	NS
	4/4/2018	NS	NS	NS	NS	NS
	11/14/2018	NS	NS	NS	NS	NS
	11/19/2019	NS	NS	NS	NS	NS
	8/20/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
	08/20/2020 ¹	< 50	< 1.0	< 1.0	< 1.0	BDL

Table 2
Groundwater VOC Analytical Results
Third Quarter 2020
Douglas Road Landfill Superfund Site
Mishawaka, Indiana

Sample ID	Date Sampled	Acetone	Carbon Tetrachloride	1,1-Dichloroethane	Vinyl Chloride	Remaining VOCs
MW-15I	4/23/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/12/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/26/2015	< 5.0	< 1.0	< 5.0	HD	BDL
	4/13/2016	< 20	< 1.0	< 2.0	HD	BDL
	9/14/2017	NS	NS	NS	NS	NS
	4/4/2018	NS	NS	NS	NS	NS
	11/14/2018	NS	NS	NS	NS	NS
	11/19/2019	NS	NS	NS	NS	NS
	8/20/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-16S	4/23/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/4/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/26/2015	< 5.0	< 5.0	< 5.0	HD	BDL
	4/13/2016	< 20	< 5.0	< 2.0	HD	BDL
	9/14/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/13/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/19/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
	8/20/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-16I	4/23/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/4/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/26/2015	< 5.0	< 5.0	< 5.0	HD	BDL
	4/13/2016	< 20	< 5.0	< 2.0	HD	BDL
	9/14/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/13/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/19/2019	< 50	< 1.0	< 1.0	1.12	BDL
	8/19/2020	< 50	< 1.0	< 1.0	1.25	BDL
MW-17S	4/25/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/5/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/26/2015	< 5.0	< 5.0	< 5.0	HD	BDL
	4/13/2016	< 20	< 5.0	< 2.0	HD	BDL
	4/13/2016 ¹	< 20	< 5.0	< 2.0	< 1.0	BDL
	9/14/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/14/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/18/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
MW-17I	8/19/2020	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/23/2013	< 5.0	< 5.0	< 5.0	HD	BDL
	6/4/2014	< 5.0	< 5.0	< 5.0	HD	BDL
	8/26/2015	< 5.0	< 5.0	< 5.0	HD	BDL
	4/13/2016	< 20	< 5.0	< 2.0	HD	BDL
	9/14/2017	< 50	< 1.0	< 1.0	< 1.0	BDL
	4/4/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/14/2018	< 50	< 1.0	< 1.0	< 1.0	BDL
	11/18/2019	< 50	< 1.0	< 1.0	< 1.0	BDL
Site Closure Goals ²		NE	NE	3,530	1.0	Varies

1= Duplicate Sample, 2= Per Project Sampling & Analysis Plan (7/22/16) and Site Remedial Action Final Design (1/97), 3= Historical Data taken from Table 2 and 3 from the Semi-Annual Groundwater Report, KARAMEDIA, June 13, 2016.

Units are reported as micrograms per liter (ug/L)

Bold= Exceeds Site Closure Goal

NS= Not Sampled

NE= Not Established

BDL= Below Laboratory Detection Limit

HD indicates that Patriot does not have access to the historical data

J3 = The associated batch QC was outside the established quality control range for precision, J5= The sample matrix interfered with the ability to make accurate determination; spike value is high

Table 3
Groundwater Metals Analytical Results
Fourth Quarter 2019
Douglas Road Landfill Superfund Site
Mishawaka, Indiana

Sample ID	Date Sampled	Arsenic	Iron	Lead
MW-01s	4/23/2013	< 5.0	676	< 5.0
	6/4/2014	3.26	< 50	< 5.0
	8/25/2015	4.19	14.5	< 5.0
	4/12/2016	3.4	< 50	< 5.0
	9/13/2017	NS	NS	NS
	4/4/2018	NS	NS	NS
	11/13/2018	NS	NS	NS
	11/18/2019	NS	NS	NS
MW-01I	8/18/2020	NS	NS	NS
	4/23/2013	< 5.0	< 50	< 5.0
	6/4/2014	2.01	4.36	< 5.0
	8/25/2015	4.1	5.71	< 5.0
	4/12/2016	< 5.0	< 50	< 5.0
	9/13/2017	< 2.0	125	< 5.0
	9/13/2017 ¹	< 2.0	< 100	< 5.0
	4/4/2018	< 10	301	< 5.0
	4/4/2018 ¹	< 10	317	< 5.0
	11/13/2018	< 10	482	< 5.0
	11/13/2018 ¹	< 10	454	< 5.0
	11/18/2019	< 10	1,030	< 5.0
	11/18/2019 ¹	< 10	814	< 5.0
MW-01D	8/18/2020	< 10	304	< 6.0
	08/18/2020 ¹	< 10	324	< 6.0
	4/23/2013	< 5.0	< 50	< 5.0
	6/4/2014	< 5.0	16	< 5.0
	8/25/2015	< 5.0	206	< 5.0
	8/25/2015 ¹	< 5.0	209	< 5.0
	4/12/2016	2.7	42.8	< 5.0
	9/13/2017	< 2.0	5,070	< 5.0
	4/4/2018	< 10	< 100	< 5.0
MW-02s	11/13/2018	< 10	191	< 5.0
	11/18/2019	< 10	649	< 5.0
	8/18/2020	< 10	244	< 6.0
	4/24/2013	< 5.0	< 50	< 5.0
	6/3/2014	< 5.0	18.9	< 5.0
	8/24/2015	4.11	5,690	< 5.0
	4/11/2016	4.00	5,230	< 5.0
	9/13/2017	< 2.0	< 100	< 5.0
	4/4/2018	< 10	< 100	< 5.0
	11/14/2018	< 10	1,270	< 5.0
	11/19/2019	< 10	3,320	< 5.0
	8/18/2020	< 10	< 100	< 6.0

Table 3
Groundwater Metals Analytical Results
Fourth Quarter 2019
Douglas Road Landfill Superfund Site
Mishawaka, Indiana

Sample ID	Date Sampled	Arsenic	Iron	Lead
MW-02I	4/24/2013	< 5.0	592	< 5.0
	6/3/2014	2.28	761	< 5.0
	8/24/2015	3.74	79.7	< 5.0
	4/11/2016	3.5	7,870	< 5.0
	9/13/2017	< 2.0	3,270	< 5.0
	4/4/2018	< 10	440	< 5.0
	11/14/2018	< 10	< 100	< 5.0
	11/19/2019	< 10	136	< 5.0
	8/18/2020	< 10	113	< 6.0
MW-03S	4/24/2013	< 5.0	1,380	< 5.0
	6/3/2014	4.88	1,240	< 5.0
	8/24/2015	7.9	2,370	< 5.0
	4/11/2016	13.1	3,390	< 5.0
	9/13/2017	2.59	472	< 5.0
	4/4/2018	< 10	3,338	< 5.0
	11/14/2018	14.3	2,220	< 5.0
	11/19/2019	< 10	2,220	< 5.0
	8/18/2020	11.7	3,690	< 6.0
MW-03I	4/24/2013	< 5.0	< 50	< 5.0
	6/3/2014	< 5.0	23.8	< 5.0
	8/24/2015	< 5.0	37.1	< 5.0
	4/11/2016	< 5.0	< 50	< 5.0
	9/13/2017	< 2.0	194	< 5.0
	4/4/2018	< 10	123	< 5.0
	11/14/2018	10	49,100	< 5.0
	11/19/2019	< 10	1,050	< 5.0
	8/18/2020	< 10	282	< 6.0
MW-04I	4/24/2013	< 5.0	187	< 5.0
	6/3/2014	1.47	< 50	< 5.0
	8/25/2015	1.66	< 50	< 5.0
	4/11/2016	< 5.0	< 50	< 5.0
	9/13/2017	< 2.0	< 100	< 5.0
	4/4/2018	< 10	< 100	< 5.0
	11/13/2018	< 10	1,730	< 5.0
	11/18/2019	< 10	444	< 5.0
	8/18/2020	< 10	297	< 6.0
MW-04D	4/24/2013	< 5.0	164	< 5.0
	6/3/2014	2.28	715	< 5.0
	8/25/2015	< 5.0	6,570	< 5.0
	4/11/2016	4.0	8,140	< 5.0
	9/13/2017	2.51	165	< 5.0
	4/4/2018	< 10	< 100	< 5.0
	11/13/2018	< 10	110	< 5.0
	11/18/2019	< 10	418	< 5.0
	8/18/2020	< 10	< 100	< 6.0

Table 3
Groundwater Metals Analytical Results
Fourth Quarter 2019
Douglas Road Landfill Superfund Site
Mishawaka, Indiana

Sample ID	Date Sampled	Arsenic	Iron	Lead
MW-05S	4/25/2013	< 5.0	< 50	< 5.0
	8/25/2015	< 5.0	26.4	< 5.0
	4/11/2016	< 5.0	< 50	< 5.0
	9/13/2017	< 2.0	< 100	< 5.0
	4/4/2018	< 10	6,340	6.03
	11/13/2018	< 10	2,900	< 5.0
	11/18/2019	< 10	799	< 5.0
	8/18/2020	< 10	179	< 6.0
MW-05I	4/25/2013	< 5.0	51.6	< 5.0
	6/12/2014	< 5.0	< 50	< 5.0
	9/13/2017	< 2.0	150	< 5.0
	4/4/2018	NS	NS	NS
	11/13/2018	< 10	998	< 5.0
	11/18/2018	< 10	268	< 5.0
	8/18/2020	< 10	335	< 6.0
MW-06SR	4/24/2013	< 5.0	831	< 5.0
	4/24/2013 ¹	5.33	919	< 5.0
	6/3/2014	< 5.0	102	< 5.0
	8/25/2015	< 5.0	30.5	< 5.0
	4/12/2016	15.1	804	< 5.0
	9/13/2017	5.32	2,170	< 5.0
	4/4/2018	11	441	< 5.0
	11/14/2018	23.6	1,940	< 5.0
	11/19/2019	10.6	1,000	< 5.0
MW-07S	8/20/2020	11.1	830	< 6.0
	4/24/2013	< 5.0	435	< 5.0
	6/3/2014	< 5.0	16.9	< 5.0
	8/25/2015	< 5.0	37.6	< 5.0
	4/12/2016	3.3	< 50	< 5.0
	9/13/2017	< 2.0	< 100	< 5.0
	4/5/2018	< 10	< 100	< 5.0
	11/14/2018	< 10	1,520	< 5.0
	11/19/2019	< 10	173	< 5.0
MW-07I	8/18/2020	< 10	312	< 6.0
	4/24/2013	< 5.0	< 50	< 5.0
	6/3/2014	< 5.0	20	< 5.0
	8/25/2015	< 5.0	9.95	< 5.0
	4/12/2016	< 5.0	< 50	< 5.0
	9/13/2017	< 2.0	< 100	< 5.0
	4/5/2018	< 10	1,960	< 5.0
	11/14/2018	< 10	616	< 5.0
	11/19/2019	< 10	485	< 5.0
MW-09I	8/18/2020	< 10	< 100	< 6.0
	4/25/2013	< 5.0	142	< 5.0
	6/5/2014	< 5.0	126	< 5.0
	9/8/2015	7.85	313	< 5.0
	4/14/2016	2.7	186	< 5.0
	9/13/2017	NS	NS	NS
	4/4/2018	NS	NS	NS
	11/14/2018	NS	NS	NS
	11/19/2019	NS	NS	NS
	8/18/2020	NS	NS	NS

Table 3
Groundwater Metals Analytical Results
Fourth Quarter 2019
Douglas Road Landfill Superfund Site
Mishawaka, Indiana

Sample ID	Date Sampled	Arsenic	Iron	Lead
MW-10S	4/25/2013	< 5.0	< 50	< 5.0
	6/6/2014	2.39	< 50	< 5.0
	9/8/2015	< 5.0	< 50	< 5.0
	4/14/2016	5.2	69.9	< 5.0
	9/13/2017	< 2.0	172	< 5.0
	4/5/2018	< 10	< 100	< 5.0
	11/14/2018	18.1	11,500	< 5.0
	11/19/2019	< 10	1,560	< 5.0
MW-10I	8/18/2020	< 10	3,460	< 6.0
	4/25/2013	< 5.0	< 50	< 5.0
	6/6/2014	2.05	19.3	< 5.0
	9/8/2015	< 5.0	299	< 5.0
	4/14/2016	6.3	167	< 5.0
	9/13/2017	< 2.0	281	< 5.0
	9/13/2017 ¹	< 2.0	327	< 5.0
	4/5/2018	< 10	496	< 5.0
	4/5/2018 ¹	< 10	423	< 5.0
	11/14/2018	< 10	578	< 5.0
	11/14/2018 ¹	< 10	530	< 5.0
	11/19/2019	< 10	449	< 5.0
	11/19/2019 ¹	< 10	477	< 5.0
	8/18/2020	< 10	2,380	< 6.0
	08/18/2020 ¹	< 10	1,730	< 6.0
MW-11I	4/25/2013	< 5.0	< 50	< 5.0
	6/4/2014	13.1	115	< 5.0
	8/26/2015	< 5.0	42	< 5.0
	4/13/2016	3.1	153	< 5.0
	9/13/2017	< 2.0	< 100	< 5.0
	4/4/2018	< 10	< 100	< 5.0
	11/13/2018	< 10	13,400	< 5.0
	11/18/2019	< 10	13,900	< 5.0
MW-12S	8/19/2020	< 10	135	< 6.0
	4/25/2013	< 5.0	< 50	< 5.0
	6/4/2014	2.02	29.8	< 5.0
	8/26/2015	2.62	19.4	< 5.0
	4/13/2016	3	< 50	< 5.0
	9/14/2017	< 2.0	1,590	< 5.0
	4/4/2018	< 10	< 100	< 5.0
	11/13/2018	< 10	1,640	< 5.0
MW-12I	11/18/2019	< 10	1,110	< 5.0
	8/19/2020	< 10	503	< 6.0
	4/25/2013	< 5.0	2,330	< 5.0
	6/4/2014	< 5.0	< 50	< 5.0
	4/13/2016	3.5	36.6	< 5.0
	9/14/2017	< 2.0	780	< 5.0
	4/4/2018	< 10	< 100	< 5.0
	11/13/2018	< 10	423	< 5.0
	11/18/2019	< 10	4,020	< 5.0
	8/19/2020	< 10	637	< 6.0

Table 3
Groundwater Metals Analytical Results
Fourth Quarter 2019
Douglas Road Landfill Superfund Site
Mishawaka, Indiana

Sample ID	Date Sampled	Arsenic	Iron	Lead
MW-13S	4/24/2013	< 5.0	787	< 5.0
	6/6/2014	< 5.0	649	< 5.0
	9/14/2017	< 2.0	858	< 5.0
	4/5/2018	< 10	1,810	< 5.0
	11/13/2018	NS	NS	NS
	11/19/2019	NS	NS	NS
	8/19/2020	NS	NS	NS
MW-13I	4/24/2013	< 5.0	< 50	< 5.0
	6/12/2014	< 5.0	12.3	< 5.0
	9/8/2015	< 5.0	80.6	< 5.0
	4/12/2016	< 5.0	< 50	< 5.0
	4/12/2016 ¹	3.4	< 50	< 5.0
	9/14/2017	< 2.0	< 100	< 5.0
	4/5/2018	< 10	291	< 5.0
	11/14/2018	< 10	650	< 5.0
	11/19/2019	< 10	298	< 5.0
MW-14S	8/18/2020	< 10	865	< 6.0
	4/25/2013	< 5.0	< 50	< 5.0
	6/12/2014	< 5.0	< 50	< 5.0
	8/26/2015	< 5.0	7.98	< 5.0
	4/13/2016	< 5.0	41.6	< 5.0
	9/14/2017	< 2.0	< 100	< 5.0
	4/4/2018	< 10	361	< 5.0
	11/13/2018	< 10	4,250	< 5.0
	11/19/2019	< 10	8,280	< 5.0
MW-14I	8/19/2020	< 10	2,050	< 6.0
	4/25/2013	< 5.0	< 50	< 5.0
	6/12/2014	< 5.0	25	< 5.0
	9/14/2017	NS	NS	NS
	4/4/2018	NS	NS	NS
	11/14/2018	NS	NS	NS
	11/19/2019	NS	NS	NS
MW-15S	8/19/2020	NS	NS	NS
	4/23/2013	< 5.0	4,200	< 5.0
	4/23/2013 ¹	< 5.0	4,070	< 5.0
	6/6/2014	15.4	24,200	< 5.0
	8/26/2015	19.7	13,100	< 5.0
	8/26/2015 ¹	16.6	13,200	< 5.0
	4/13/2016	18.4	8,490	< 5.0
	9/14/2017	NS	NS	NS
	4/4/2018	NS	NS	NS
	11/14/2018	NS	NS	NS
	11/18/2019	NS	NS	NS
	11/19/2019	NS	NS	NS
MW-15I	8/20/2020	< 10	12,100	< 6.0
	8/20/2020 ¹	10.8	12,200	< 6.0
	4/23/2013	< 5.0	127	< 5.0
	6/6/2014	2.14	25.1	< 5.0
	8/26/2015	< 5.0	26.2	< 5.0
	4/13/2016	4.1	26.2	< 5.0
	9/14/2017	NS	NS	NS
	4/4/2018	NS	NS	NS
	11/14/2018	NS	NS	NS
	11/18/2019	NS	NS	NS
	11/19/2019	NS	NS	NS
	8/20/2020	< 10	< 100	< 6.0

Table 3
Groundwater Metals Analytical Results
Fourth Quarter 2019
Douglas Road Landfill Superfund Site
Mishawaka, Indiana

Sample ID	Date Sampled	Arsenic	Iron	Lead
MW-16S	4/23/2013	< 5.0	424	< 5.0
	6/4/2014	4.46	747	< 5.0
	8/26/2015	< 5.0	2,780	< 5.0
	4/13/2016	6.4	1,180	< 5.0
	9/14/2017	< 2.0	6,420	< 5.0
	4/4/2018	10.7	7,240	14.2
	11/13/2018	< 10	4,090	< 5.0
	11/19/2019	27.4	81,300	11.8
	8/20/2020	< 10	11,800	< 6.0
MW-16I	4/23/2013	< 5.0	< 50	< 5.0
	6/4/2014	1.93	87	< 5.0
	8/26/2015	< 5.0	33.6	< 5.0
	4/13/2016	3.2	33.6	< 5.0
	9/14/2017	< 2.0	506	< 5.0
	4/4/2018	10.7	10,500	< 5.0
	11/13/2018	< 10	2,540	8.77
	11/19/2019	< 10	1,180	< 5.0
	8/19/2020	< 10	1,470	< 6.0
MW-17S	4/25/2013	< 5.0	< 50	< 5.0
	6/5/2014	< 5.0	< 50	< 5.0
	8/26/2015	< 5.0	32.8	< 5.0
	4/13/2016	2.3	< 50	< 5.0
	4/13/2016 ¹	3.4	< 50	< 5.0
	9/14/2017	< 2.0	< 100	< 5.0
	4/4/2018	< 10	8,300	< 5.0
	11/14/2018	< 10	120	< 5.0
	11/18/2019	< 10	2,090	< 5.0
	8/19/2020	< 10	3,570	< 6.0
MW-17I	4/25/2013	< 5.0	< 50	< 5.0
	6/6/2014	< 5.0	< 50	< 5.0
	8/26/2015	< 5.0	21.6	< 5.0
	4/13/2016	2.9	< 50	< 5.0
	9/14/2017	< 2.0	< 100	< 5.0
	4/4/2018	< 10	< 100	< 5.0
	11/4/2018	< 10	480	< 5.0
	11/18/2019	< 10	347	< 5.0
	8/19/2020	< 10	178	< 6.0
Site Closure Goals ²		5	1,000	NE

1= Duplicate Sample, 2= Per Project Sampling & Analysis Plan (7/22/16) and Site Remedial Action Final Design (1/97), 3= Historical Data (prior to 9/2017) taken from Table 2 and 3 from the Semi-Annual Groundwater Report, KARAMELIA, June 13, 2016. Units are reported as micrograms per liter (ug/L), Bold= Exceeds Site Closure Goal, NS= Not Sampled, NE= Not Established, BDL= Below Laboratory Detection Limit

ATTACHMENT 1

Groundwater Sampling Information Sheets

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-01S

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2 in
Type	Flush
Total Depth of well (ft)	16.25
Depth to product (ft)	X
Depth to water (ft)	16.00

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	

Low Flow Sampling	
Pump (make/model)	NA
Water Quality Metter (Make/Model)	NA
Depth of pump placement (ft)	NA
Bubbles purged from flow cell?	NA
Is drawdown > 0.3 ft?	NA
Was passive sampling used?	NA
Flowrate (mL/min)	NA

Stability Test(s)		Results							
Performed	Stability Range	3 min	6 min	9 min	12 min	15 min	18 min	21 min	
Temperature (°C)	+ / - 3%								
Spec.Cond (ms/cm)	+ / - 3%								
pH	+ / - 0.1								USED BAILER TO SAMPLE WELL
D.O. (mg/L)	+ / - 10%								
ORP (mV)	+ / - 10mV								
Turbidity (NTU)	+ / - 10%								

Field Test(s) Performed	VOCs
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Observations

Sample Date: 8/18/2020 Volume of water purged from well NA
Start Time Appearance of Water Clear

Sample Time: 11:00

Was the dissolved metals sample filtered prior to preservation?

Method: Disposable groundwater filter capsule

Color of water before filtration? NA After filtration? NA

Reaction upon addition of preservatives?

Well condition Micropurge pump broke in well, could not remove to sample

Collected by: Vishal Shah

Note: Only able to get water out for VOCs only

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-01I

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	59.15
Depth to product (ft)	X
Depth to water (ft)	16.4

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	DUP-1
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	55
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	100

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	18.75	19.03	19.22	20.10	20.22	20.25	20.31
Spec.Cond (ms/cm)	+ / - 3%	0.362	0.373	0.375	0.380	0.383	0.385	0.385
pH	+ / - 0.1	7.52	7.46	7.42	7.43	7.44	7.44	7.44
D.O. (mg/L)	+ / - 10%	9.88	9.15	8.40	7.72	7.61	7.50	7.43
ORP (mV)	+ / - 10mV	-40	-47	-49	-54	-55	-57	-58
Turbidity (NTU)	+ / - 10%	100.1	49.6	17.2	28.1	19.6	23.2	20.7

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/18/2020 Volume of water purged from well 0.65 gallons
 Start Time: 11:17 Appearance of Water Clear
 Sample Time: 11:35
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Clear After filtration? Clear
 Reaction upon addition of preservatives? No
 Well condition Good but no bolts

Collected by: Vishal Shah

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-01D

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	95
Depth to product (ft)	X
Depth to water (ft)	15.9

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	N/A
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	90
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	150

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	16.88	17.61	19.45	19.81	19.92	19.95	19.99
Spec.Cond (ms/cm)	+ / - 3%	0.411	0.45	0.481	0.483	0.485	0.488	0.489
pH	+ / - 0.1	7.61	7.65	7.64	7.65	7.65	7.65	7.65
D.O. (mg/L)	+ / - 10%	5.99	2.82	1.67	1.52	1.51	1.49	1.48
ORP (mV)	+ / - 10mV	-56	-71	-76	-79	-80	-80	-82
Turbidity (NTU)	+ / - 10%	13.8	11.5	8.5	7.2	7.4	6.9	8.4

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/18/2020 Volume of water purged from well 0.85 gallons
 Start Time: 12:07 Appearance of Water Clear
 Sample Time: 12:28
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Clear After filtration? Clear
 Reaction upon addition of preservatives? No
 Well condition Good but no bolts

Collected by: Vishal Shah

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-02S

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Stick-up
Total Depth of well (ft)	35
Depth to product (ft)	X
Depth to water (ft)	27.55

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	30
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	100

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	17.02	17.45	17.51	17.61	17.75	17.88	17.97
Spec.Cond (ms/cm)	+ / - 3%	1.39	1.37	1.37	1.370	1.38	1.38	1.38
pH	+ / - 0.1	7.44	7.34	7.3	7.3	7.28	7.27	7.25
D.O. (mg/L)	+ / - 10%	3.48	2.8	2.85	2.91	2.95	3.13	3.19
ORP (mV)	+ / - 10mV	53	55	57	59	63	66	67
Turbidity (NTU)	+ / - 10%	136	93.9	76.4	54.6	35.7	27.6	21.3

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/18/2020 Volume of water purged from well gallons
 Start Time: 15:06 Appearance of Water Clear
 Sample Time: 15:27
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Clear After filtration? Clear
 Reaction upon addition of preservatives? No
 Well condition Good

Collected by: Mack Runyon

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-021

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Stick-up
Total Depth of well (ft)	64.45
Depth to product (ft)	X
Depth to water (ft)	27.69

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	60
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	100

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	17.27	17.39	17.51	17.89	18.43	18.56	18.73
Spec.Cond (ms/cm)	+ / - 3%	1.03	1.05	1.06	1.060	1.06	1.07	1.07
pH	+ / - 0.1	7.15	7.15	7.15	7.16	7.17	7.17	7.17
D.O. (mg/L)	+ / - 10%	6.68	5.37	4.73	4.51	4.28	4.03	3.93
ORP (mV)	+ / - 10mV	81	80	80	81	82	82	82
Turbidity (NTU)	+ / - 10%	130	148	152	97.6	79.1	57.6	36.9

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/18/2020 Volume of water purged from well

Start Time: 15:46 Appearance of Water Clear

Sample Time: 16:07

Was the dissolved metals sample filtered prior to preservation? Yes

Method: Disposable groundwater filter capsule

Color of water before filtration? Clear After filtration? Clear

Reaction upon addition of preservatives? No

Well condition Good

Collected by: Mack Runyon

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-03S

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Stick-up
Total Depth of well (ft)	39.34
Depth to product (ft)	X
Depth to water (ft)	23.94

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	35
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	100

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	17.97	18.04	18.07	18.15	18.36	18.49	18.56
Spec.Cond (ms/cm)	+ / - 3%	1.21	1.24	1.25	1.260	1.27	1.27	1.27
pH	+ / - 0.1	7.29	7.27	7.23	7.19	7.16	7.15	7.14
D.O. (mg/L)	+ / - 10%	1.91	1.85	1.74	1.59	1.46	1.27	1.29
ORP (mV)	+ / - 10mV	-138	-143	-143	-140	-138	-137	-138
Turbidity (NTU)	+ / - 10%	25.9	24.6	28.8	24.4	26.1	23.1	18.9

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/18/2020 Volume of water purged from well gallons
 Start Time: 13:37 Appearance of Water
 Sample Time: 13:58
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Clear After filtration? Clear
 Reaction upon addition of preservatives? No
 Well condition Good

Collected by: Mack Runyon

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-03I

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Stick-up
Total Depth of well (ft)	62.62
Depth to product (ft)	X
Depth to water (ft)	23.75

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	57
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	100

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	17.65	17.73	17.8	17.71	17.76	17.71	17.79
Spec.Cond (ms/cm)	+ / - 3%	1.02	1.02	1.02	1.020	1.02	1.01	1.01
pH	+ / - 0.1	6.91	6.93	6.94	6.94	6.95	6.98	6.99
D.O. (mg/L)	+ / - 10%	5.82	1.98	0.98	0.59	0.54	0.41	0.35
ORP (mV)	+ / - 10mV	17	15	12	16	17	17	18
Turbidity (NTU)	+ / - 10%	68.6	65.1	61.2	50.6	43.7	42.5	35.7

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/18/2020 Volume of water purged from well gallons

Start Time: 14:17 Appearance of Water

Sample Time: 14:38

Was the dissolved metals sample filtered prior to preservation? Yes

Method: Disposable groundwater filter capsule

Color of water before filtration? After filtration?

Reaction upon addition of preservatives? No

Well condition

Collected by:

Form: DRL-8
Groundwater Sample Information Sheet

Facility Nar Douglas Road Landfill

Project # 16-1731-04E

Sample ID MW-04S

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Stick-up
Total Depth of well (ft)	18.98
Depth to product (ft)	X
Depth to water (ft)	ND

Sample Types
Monitoring well
Grab or composite
Split sample
Duplicate ID:
MS/MSD
Other

Low Flow Sampling	
Pump (make/model)	Monsoon
Water Quality Metter (Horiba
Depth of pump placem	23
Bubbles purged from fl	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling i	No
Flowrate (mL/min)	100

Stability	Results						
Test(s)	Stability Ra 3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperatu + / - 3%							
Spec.Cond + / - 3%							
pH + / - 0.1							
D.O. (mg/L + / - 10%							
ORP (mV) + / - 10mV							
Turbidity (f + / - 10%							

WELL IS DRY- NO SAMPLE OBTAINED

Field Test(s)	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/18/2020 Volume of water purged from well

Start Time Not sampled Appearance of Water

Sample Time:

Was the dissolved metals sample filtered prior to preservatic

Method: Disposable groundwater filter capsule

Color of water before f After filtration?

Reaction upon addition of preservativ

Well condition

Collected by:

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-4I

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Stick-up
Total Depth of well (ft)	66.63
Depth to product (ft)	X
Depth to water (ft)	27.78

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	Yes
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	60
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	100

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	17.85	18.65	18.57	18.69	18.79	18.85	18.89
Spec.Cond (ms/cm)	+ / - 3%	1.2	1.2	1.2	1.200	1.2	1.2	1.2
pH	+ / - 0.1	7.45	7.42	7.4	7.39	7.39	7.38	7.38
D.O. (mg/L)	+ / - 10%	3.52	2.68	2.57	2.1	1.88	1.78	1.72
ORP (mV)	+ / - 10mV	68	-27	-35	-38	-40	-42	-44
Turbidity (NTU)	+ / - 10%	66.7	56.6	53.5	50.5	45.9	41.7	36.8

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/18/2020 Volume of water purged from well gallons
 Start Time: 12:06 Appearance of Water Clear
 Sample Time: 12:27
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Clear After filtration? Clear
 Reaction upon addition of preservatives? No
 Well condition Good

Collected by: Mack Runyon

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-04D

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Stick-up
Total Depth of well (ft)	>100
Depth to product (ft)	X
Depth to water (ft)	21.82

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	65
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	100

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	18.12	17.88	17.81	17.78	17.73	17.75	17.68
Spec.Cond (ms/cm)	+ / - 3%	0.822	0.923	0.942	0.950	0.955	0.959	0.963
pH	+ / - 0.1	7.07	6.9	6.84	6.79	6.77	6.74	6.74
D.O. (mg/L)	+ / - 10%	8.33	3.6	2.04	1.7	1.41	1.19	1.03
ORP (mV)	+ / - 10mV	84	94	98	98	99	99	98
Turbidity (NTU)	+ / - 10%	18.5	10.7	6.7	6.5	6.5	6.5	6.9

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/18/2020 Volume of water purged from well gallons
 Start Time: 12:57 Appearance of Water Clear
 Sample Time: 13:18
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Clear After filtration? Clear
 Reaction upon addition of preservatives? No
 Well condition Good

Collected by: Mack Runyon

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-05S

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	26.7
Depth to product (ft)	X
Depth to water (ft)	18.92

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	24
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	100

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	16.9	17.41	18.35	18.42	18.3	18.29	18.16
Spec.Cond (ms/cm)	+ / - 3%	0.841	0.831	0.833	0.834	0.832	0.832	0.835
pH	+ / - 0.1	7.24	7.24	7.19	7.18	7.16	7.17	7.17
D.O. (mg/L)	+ / - 10%	3.24	1.96	1.65	1.59	1.51	1.46	1.56
ORP (mV)	+ / - 10mV	87	85	82	80	80	79	79
Turbidity (NTU)	+ / - 10%	1000	1000	664	659	602	578	563

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/18/2020 Volume of water purged from well gallons
 Start Time: 16:43 Appearance of Water Turbid
 Sample Time: 17:04
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Light brown After filtration? Clear
 Reaction upon addition of preservatives? No
 Well condition No lid

Collected by: Mack Runyon

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-051

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	57.5
Depth to product (ft)	X
Depth to water (ft)	18.64

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	53
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	100

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	16.22	16.87	17.45	17.32	17.23	17.11	17.08
Spec.Cond (ms/cm)	+ / - 3%	0.529	0.601	0.649	0.661	0.673	0.676	0.678
pH	+ / - 0.1	7.55	7.58	7.6	7.6	7.6	7.61	7.61
D.O. (mg/L)	+ / - 10%	11.55	10.02	9.53	9.22	9.03	8.79	8.62
ORP (mV)	+ / - 10mV	-8	-30	-38	-45	-50	-53	-55
Turbidity (NTU)	+ / - 10%	289	202	187	172	165	153	141

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/18/2020 Volume of water purged from well 0.61 gallons

Start Time: 16:37 Appearance of Water

Sample Time: 16:58

Was the dissolved metals sample filtered prior to preservation? Yes

Method: Disposable groundwater filter capsule

Color of water before filtration? Clear After filtration? Clear

Reaction upon addition of preservatives? No

Well condition No cover

Collected by: Vishal Shah

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-06SR

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Stick-up
Total Depth of well (ft)	32.25
Depth to product (ft)	X
Depth to water (ft)	17.94

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	30
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	120

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	14.91	14.84	14.78	14.74	14.71	14.71	14.71
Spec.Cond (ms/cm)	+ / - 3%	0.491	0.483	0.472	0.468	0.459	0.456	0.454
pH	+ / - 0.1	7.79	7.72	7.67	7.62	7.61	7.6	7.6
D.O. (mg/L)	+ / - 10%	14.78	13.52	12.11	10.99	10.82	10.69	10.54
ORP (mV)	+ / - 10mV	-115	-130	-138	-141	-142	-144	-145
Turbidity (NTU)	+ / - 10%	190	156	101	78.4	59.7	47.1	44.2

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/20/2020 Volume of water purged from well 0.75 gallons
 Start Time: 10:56 Appearance of Water Clear
 Sample Time: 11:17
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Clear After filtration? Clear
 Reaction upon addition of preservatives? N
 Well condition Good

Collected by: Vishal Shah

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-061

Monitoring Well Data
Well Material
Inside Diameter
Type
Total Depth of well (ft)
Depth to product (ft)
Depth to water (ft)

Sample Types
Monitoring well
Grab or composite
Split sample
Duplicate ID:
MS/MSD
Other

Low Flow Sampling
Pump (make/model)
Water Quality Metter (Make/Model)
Depth of pump placement (ft)
Bubbles purged from flow cell?
Is drawdown > 0.3 ft?
Was passive sampling used?
Flowrate (mL/min)

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%							
Spec.Cond (ms/cm)	+ / - 3%							
pH	+ / - 0.1		Previously Abandoned					
D.O. (mg/L)	+ / - 10%							
ORP (mV)	+ / - 10mV							
Turbidity (NTU)	+ / - 10%							

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/20/2020 Volume of water purged from well 0.75 gallons
 Start Time: 10:56 Appearance of Water Clear
 Sample Time: 11:17
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Clear After filtration? Clear
 Reaction upon addition of preservatives? N
 Well condition Good

Collected by: Vishal Shah

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-07S

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Stick-up
Total Depth of well (ft)	25.35
Depth to product (ft)	X
Depth to water (ft)	18.94

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Monsoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	23
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	100

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	16.2	16.4	16.92	17.17	17.23	17.45	17.52
Spec.Cond (ms/cm)	+ / - 3%	0.86	0.89	0.922	0.935	0.939	0.952	0.961
pH	+ / - 0.1	6.99	7.01	7.01	7	7	7	7
D.O. (mg/L)	+ / - 10%	3.51	2.25	1.98	1.93	1.9	1.82	1.79
ORP (mV)	+ / - 10mV	81	81	82	83	83	83	84
Turbidity (NTU)	+ / - 10%	71	54.3	50.5	47.5	41.2	39.6	35.1

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/18/2020 Volume of water purged from well _____ gallons
 Start Time: 11:25 Appearance of Water Clear
 Sample Time: 11:46
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Clear After filtration? Clear
 Reaction upon addition of preservatives? No
 Well condition Good

Collected by: Mack Runyon

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-071

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Stick-up
Total Depth of well (ft)	66.9
Depth to product (ft)	X
Depth to water (ft)	18.79

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	
MS/MSD	
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	60
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	100

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	15.58	16.2	16.41	16.53	16.74	16.79	16.81
Spec.Cond (ms/cm)	+ / - 3%	1.37	1.35	1.35	1.340	1.34	1.34	1.33
pH	+ / - 0.1	7.29	7.26	7.22	7.21	7.19	7.19	7.18
D.O. (mg/L)	+ / - 10%	10.81	9.88	9.23	8.91	7.65	7.36	7.14
ORP (mV)	+ / - 10mV	76	51	25	15	13	10	8
Turbidity (NTU)	+ / - 10%	123	82.6	69.4	66.3	61.3	55.7	52.3

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/18/2020 Volume of water purged from well gallons
 Start Time: 10:50 Appearance of Water Clear
 Sample Time: 11:11
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Clear After filtration? Clear
 Reaction upon addition of preservatives? No
 Well condition Good

Collected by: Mack Runyon

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-08S

Monitoring Well Data
Well Material
Inside Diameter
Type
Total Depth of well (ft)
Depth to product (ft)
Depth to water (ft)

Sample Types
Monitoring well
Grab or composite
Split sample
Duplicate ID:
MS/MSD
Other

Low Flow Sampling
Pump (make/model)
Water Quality Metter (Make/Model)
Depth of pump placement (ft)
Bubbles purged from flow cell?
Is drawdown > 0.3 ft?
Was passive sampling used?
Flowrate (mL/min)

Stability Test(s) Performed		Results						
	Stability Range	3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%							
Spec.Cond (ms/cm)	+ / - 3%							
pH	+ / - 0.1		Previously Adandoned					
D.O. (mg/L)	+ / - 10%							
ORP (mV)	+ / - 10mV							
Turbidity (NTU)	+ / - 10%							

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date:

Volume of water purged from well

Start Time:

Appearance of Water

Sample Time:

Was the dissolved metals sample filtered prior to preservation?

Method: Disposable groundwater filter capsule

Color of water before filtration? After filtration?

Reaction upon addition of preservatives?

Well condition Could not locate

Collected by:

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-081

Monitoring Well Data
Well Material
Inside Diameter
Type
Total Depth of well (ft)
Depth to product (ft)
Depth to water (ft)

Sample Types
Monitoring well
Grab or composite
Split sample
Duplicate ID:
MS/MSD
Other

Low Flow Sampling
Pump (make/model)
Water Quality Metter (Make/Model)
Depth of pump placement (ft)
Bubbles purged from flow cell?
Is drawdown > 0.3 ft?
Was passive sampling used?
Flowrate (mL/min)

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%							
Spec.Cond (ms/cm)	+ / - 3%							
pH	+ / - 0.1		Previously Abandoned					
D.O. (mg/L)	+ / - 10%							
ORP (mV)	+ / - 10mV							
Turbidity (NTU)	+ / - 10%							

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date:

Volume of water purged from well

Start Time:

Appearance of Water

Sample Time:

Was the dissolved metals sample filtered prior to preservation?

Method: Disposable groundwater filter capsule

Color of water before filtration? After filtration?

Reaction upon addition of preservatives?

Well condition Could not locate

Collected by:

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-09S

Monitoring Well Data

Well Material
Inside Diameter
Type
Total Depth of well (ft)
Depth to product (ft)
Depth to water (ft)

Sample Types

Monitoring well
Grab or composite
Split sample
Duplicate ID:
MS/MSD
Other

Low Flow Sampling

Pump (make/model)
Water Quality Metter (Make/Model)
Depth of pump placement (ft)
Bubbles purged from flow cell?
Is drawdown > 0.3 ft?
Was passive sampling used?
Flowrate (mL/min)

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%							
Spec.Cond (ms/cm)	+ / - 3%							
pH	+ / - 0.1							
D.O. (mg/L)	+ / - 10%							
ORP (mV)	+ / - 10mV							
Turbidity (NTU)	+ / - 10%							

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date:

Volume of water purged from well

Start Time

Appearance of Water

Sample Time:

Was the dissolved metals sample filtered prior to preservation?

Method: Disposable groundwater filter capsule

Color of water before filtration? After filtration?

Reaction upon addition of preservatives?

Well condition Could not locate

Collected by:

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill

Project # 16-1731-04E

Sample ID MW-09I

Monitoring Well Data

Well Material
Inside Diameter
Type
Total Depth of well (ft)
Depth to product (ft)
Depth to water (ft)

Sample Types

Monitoring well
Grab or composite
Split sample
Duplicate ID:
MS/MSD
Other

Low Flow Sampling

Pump (make/model)
Water Quality Metter (Make/Model)
Depth of pump placement (ft)
Bubbles purged from flow cell?
Is drawdown > 0.3 ft?
Was passive sampling used?
Flowrate (mL/min)

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%							
Spec.Cond (ms/cm)	+ / - 3%							
pH	+ / - 0.1							
D.O. (mg/L)	+ / - 10%							
ORP (mV)	+ / - 10mV							
Turbidity (NTU)	+ / - 10%							

Field Test(s) Performed

VOCs Arsenic Lead

Observations

Sample Date:

Volume of water purged from well

Start Time:

Appearance of Water

Sample Time:

Was the dissolved metals sample filtered prior to preservation?

Method: Disposable groundwater filter capsule

Color of water before filtration?

After filtration?

Reaction upon addition of preservatives?

Well condition Could not locate

Collected by:

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-10S

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	19.95
Depth to product (ft)	X
Depth to water (ft)	10.72

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	18
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	100

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	16.67	17.32	17.56	17.84	17.92	18.01	17.94
Spec.Cond (ms/cm)	+ / - 3%	1.16	1.15	1.15	1.150	1.14	1.14	1.14
pH	+ / - 0.1	7.71	7.67	7.65	7.65	7.64	7.64	7.64
D.O. (mg/L)	+ / - 10%	9.87	8.08	7.66	7.53	7.39	7.23	7.09
ORP (mV)	+ / - 10mV	120	124	127	128	128	129	129
Turbidity (NTU)	+ / - 10%	0	0	985	890	875	853	832

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/18/2020 Volume of water purged from well 0.6 gallons
 Start Time: 14:43 Appearance of Water
 Sample Time: 15:04
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Light brown After filtration? Clear
 Reaction upon addition of preservatives? No
 Well condition Good but no bolts

Collected by: Vishal Shah

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-10I & Dup-2

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	10.76
Depth to product (ft)	X
Depth to water (ft)	60

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	DUP-2
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	55
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	150

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	16.9	17.54	16.65	16.43	16.54	16.7	16.64
Spec.Cond (ms/cm)	+ / - 3%	0.983	0.999	1.01	1.020	1.03	1.03	1.03
pH	+ / - 0.1	7.57	7.54	7.52	7.5	7.5	7.49	7.49
D.O. (mg/L)	+ / - 10%	8.18	6.07	5.43	4.98	4.55	4.39	4.22
ORP (mV)	+ / - 10mV	83	86	89	90	91	93	95
Turbidity (NTU)	+ / - 10%	187	93.2	77.6	54.5	39.3	33.2	30.7

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/18/2020 Volume of water purged from well 0.85 gallons
 Start Time: 15:47 Appearance of Water
 Sample Time: 16:08
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Brown After filtration?
 Reaction upon addition of preservatives? No
 Well condition Good but no bolts

Collected by: Vishal Shah

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-11S

Monitoring Well Data
Well Material
Inside Diameter
Type
Total Depth of well (ft)
Depth to product (ft)
Depth to water (ft)

Sample Types
Monitoring well
Grab or composite
Split sample
Duplicate ID:
MS/MSD
Other

Low Flow Sampling
Pump (make/model)
Water Quality Metter (Make/Model)
Depth of pump placement (ft)
Bubbles purged from flow cell?
Is drawdown > 0.3 ft?
Was passive sampling used?
Flowrate (mL/min)

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%							
Spec.Cond (ms/cm)	+ / - 3%							
pH	+ / - 0.1							
D.O. (mg/L)	+ / - 10%							
ORP (mV)	+ / - 10mV							
Turbidity (NTU)	+ / - 10%							

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date:

Volume of water purged from well

Start Time

Appearance of Water

Sample Time:

Was the dissolved metals sample filtered prior to preservation?

Method: Disposable groundwater filter capsule

Color of water before filtration? After filtration?

Reaction upon addition of preservatives?

Well condition Micropurge Pump is stuck in the well, could not remove to sample

Collected by:

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-11I

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	60
Depth to product (ft)	X
Depth to water (ft)	29.39

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	55
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	120

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	15.84	15.79	16.09	15.99	16.08	16.11	16.29
Spec.Cond (ms/cm)	+ / - 3%	0.975	1.08	1.15	1.220	1.25	1.27	1.28
pH	+ / - 0.1	7.15	7.19	7.24	7.26	7.28	7.28	7.29
D.O. (mg/L)	+ / - 10%	14.37	10.17	9.51	9.07	8.95	9.82	8.69
ORP (mV)	+ / - 10mV	153	140	133	130	129	128	128
Turbidity (NTU)	+ / - 10%	62.7	60.4	65.3	66.3	62.1	63.7	60.2

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/19/2020 Volume of water purged from well 0.75 gallons
 Start Time: 8:40 Appearance of Water Clear
 Sample Time: 9:01
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Clear After filtration? Clear
 Reaction upon addition of preservatives? No
 Well condition Good but no bolts

Collected by: Vishal Shah

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-12S

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	28.6
Depth to product (ft)	X
Depth to water (ft)	38.32

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	35
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	100

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	15.86	16.24	16.49	16.33	16.47	16.51	16.55
Spec.Cond (ms/cm)	+ / - 3%	1.41	1.39	1.42	1.450	1.47	1.47	1.48
pH	+ / - 0.1	7.39	7.35	7.31	7.3	7.3	7.3	7.29
D.O. (mg/L)	+ / - 10%	13.76	10.53	10.01	9.71	9.62	9.57	9.53
ORP (mV)	+ / - 10mV	25	20	25	26	27	28	28
Turbidity (NTU)	+ / - 10%	265	249	125	96.1	81.7	83.8	77.8

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/19/2020 Volume of water purged from well 0.6 gallons
 Start Time: 9:59 Appearance of Water
 Sample Time: 10:20
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Clear After filtration? Clear
 Reaction upon addition of preservatives? No
 Well condition Good but no bolts

Collected by: Vishal Shah

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-121

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	54.3
Depth to product (ft)	X
Depth to water (ft)	28.2

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	50
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	120

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	16.07	15.87	16.01	16.13	16.2	16.25	16.29
Spec.Cond (ms/cm)	+ / - 3%	1.56	1.68	1.7	1.700	1.71	1.71	1.71
pH	+ / - 0.1	7.21	7.22	7.21	7.21	7.2	7.2	7.2
D.O. (mg/L)	+ / - 10%	11.93	10.72	10.51	10.14	10.08	10.01	10
ORP (mV)	+ / - 10mV	-59	-36	-20	-10	-7	-5	-4
Turbidity (NTU)	+ / - 10%	501	477	330	295	277	259	251

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/19/2020 Volume of water purged from well 0.75 gallons
 Start Time: 10:55 Appearance of Water Clear
 Sample Time: 11:16
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Light brown After filtration? Clear
 Reaction upon addition of preservatives? No
 Well condition Good but no bolts

Collected by: Vishal Shah

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-13S

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	
Depth to product (ft)	X
Depth to water (ft)	

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	
MS/MSD	
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	
Bubbles purged from flow cell?	
Is drawdown > 0.3 ft?	
Was passive sampling used?	
Flowrate (mL/min)	

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%							
Spec.Cond (ms/cm)	+ / - 3%							
pH	+ / - 0.1							
D.O. (mg/L)	+ / - 10%							
ORP (mV)	+ / - 10mV							
Turbidity (NTU)	+ / - 10%							

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: _____ Volume of water purged from well _____ gallons

Start Time: _____ Appearance of Water _____

Sample Time: _____

Was the dissolved metals sample filtered prior to preservation? Yes

Method: Disposable groundwater filter capsule

Color of water before filtration? _____ After filtration? _____

Reaction upon addition of preservatives? _____

Well condition Good, no bolts but pump is dropped inside so no sample

Collected by: _____

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-13I, MS, & MSD

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	55
Depth to product (ft)	X
Depth to water (ft)	13.21

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	Yes
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	50
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	120

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	16.85	18.51	20.62	21.02	21.62	21.69	21.75
Spec.Cond (ms/cm)	+ / - 3%	0.693	0.673	0.652	0.644	0.638	0.633	0.631
pH	+ / - 0.1	7.76	7.61	7.54	7.52	7.51	7.51	7.51
D.O. (mg/L)	+ / - 10%	15.04	10.11	8.72	7.09	6.18	5.95	5.72
ORP (mV)	+ / - 10mV	-165	-151	-144	-140	-139	-138	-138
Turbidity (NTU)	+ / - 10%	390	359	283	270	288	273	265

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/18/2020 Volume of water purged from well gallons
 Start Time: 13:45 Appearance of Water
 Sample Time: 14:06
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Clear After filtration? Clear
 Reaction upon addition of preservatives? No
 Well condition Good but no bolts on cover

Collected by: Vishal shah

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-14S

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	19.69
Depth to product (ft)	X
Depth to water (ft)	13.7

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	18
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	100

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	18.01	18.75	18.89	19.28	19.45	19.59	19.71
Spec.Cond (ms/cm)	+ / - 3%	1.16	1.15	1.15	1.150	1.15	1.15	1.15
pH	+ / - 0.1	7.07	7.07	7.07	7.06	7.06	7.06	7.06
D.O. (mg/L)	+ / - 10%	7.51	6.57	6.29	6.01	5.75	5.62	5.53
ORP (mV)	+ / - 10mV	67	68	69	70	71	72	72
Turbidity (NTU)	+ / - 10%	0	0	980	932	882	871	854

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/19/2020 Volume of water purged from well 0.6 gallons
 Start Time: 14:31 Appearance of Water
 Sample Time: 14:52 Turbid
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Brown After filtration? Clear
 Reaction upon addition of preservatives? No
 Well condition Good but no bolts

Collected by: Vishal Shah

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-04S

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	
Depth to product (ft)	
Depth to water (ft)	

Sample Types
Monitoring well
Grab or composite
Split sample
Duplicate ID:
MS/MSD
Other

Low Flow Sampling	
Pump (make/model)	N/A
Water Quality Metter (Make/Model)	N/A
Depth of pump placement (ft)	N/A
Bubbles purged from flow cell?	N/A
Is drawdown > 0.3 ft?	N/A
Was passive sampling used?	N/A
Flowrate (mL/min)	N/A

Stability Test(s)		Results						
Performed	Stability Range	3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%							
Spec.Cond (ms/cm)	+ / - 3%							
pH	+ / - 0.1							
D.O. (mg/L)	+ / - 10%							
ORP (mV)	+ / - 10mV							
Turbidity (NTU)	+ / - 10%							

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/18/2020 Volume of water purged from well

Start Time: Not sampled Appearance of Water

Sample Time:

Was the dissolved metals sample filtered prior to preservation?

Method: Disposable groundwater filter capsule

Color of water before filtration? After filtration?

Reaction upon addition of preservatives?

Well condition

Collected by:

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-155

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	11.6
Depth to product (ft)	X
Depth to water (ft)	2.01

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	DUP-3
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	Yes
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	100

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	14.96	15.42	15.61	15.55	15.67	15.72	15.8
Spec.Cond (ms/cm)	+ / - 3%	0.872	0.891	0.907	0.941	0.953	0.959	0.962
pH	+ / - 0.1	7.23	7.18	7.16	7.16	7.15	7.15	7.15
D.O. (mg/L)	+ / - 10%	12.13	11.05	10.54	10.07	9.67	9.51	9.36
ORP (mV)	+ / - 10mV	122	130	136	139	142	144	145
Turbidity (NTU)	+ / - 10%	0	0	0	920	795	768	754

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/20/2020 Volume of water purged from well 0.6 gallons

Start Time: 8:17 Appearance of Water Turbid

Sample Time: 8:38

Was the dissolved metals sample filtered prior to preservation? Yes

Method: Disposable groundwater filter capsule

Color of water before filtration? Light brown After filtration? Clear

Reaction upon addition of preservatives? No

Well condition Good but no bolts It's big manhole cover

Collected by: Vishal Shah

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-15I

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	2
Depth to product (ft)	X
Depth to water (ft)	34.75

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	30
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	120

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	15.63	16.01	16.23	16.34	16.45	16.57	16.49
Spec.Cond (ms/cm)	+ / - 3%	0.898	0.912	0.918	0.922	0.925	0.93	0.932
pH	+ / - 0.1	7.54	7.49	7.47	7.46	7.43	7.42	7.42
D.O. (mg/L)	+ / - 10%	12.33	7.64	5.98	5.64	5.35	5.27	5.2
ORP (mV)	+ / - 10mV	-123	-137	-146	-151	-153	-155	-156
Turbidity (NTU)	+ / - 10%	383	167	152	130	121	115	108

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/20/2020 Volume of water purged from well 0.75 gallons

Start Time: 9:02 Appearance of Water Clear

Sample Time: 9:23

Was the dissolved metals sample filtered prior to preservation? Yes

Method: Disposable groundwater filter capsule

Color of water before filtration? Clear After filtration? Clear

Reaction upon addition of preservatives? No

Well condition Good but no bolts It's big manhole cover

Collected by: Vishal Shah

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-16S

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	11.59
Depth to product (ft)	X
Depth to water (ft)	2.04

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	10
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	150

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	15.87	15.99	16.05	16.22	16.31	16.4	16.47
Spec.Cond (ms/cm)	+ / - 3%	0.911	0.954	0.967	0.985	0.989	0.993	0.996
pH	+ / - 0.1	7.59	7.52	7.49	7.48	7.48	7.47	7.47
D.O. (mg/L)	+ / - 10%	8.23	6.57	5.82	5.41	5.27	5.19	5.15
ORP (mV)	+ / - 10mV	-30	-35	-38	-42	-44	-45	-45
Turbidity (NTU)	+ / - 10%	0	963	778	753	741	729	698

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/20/2020 Volume of water purged from well 0.75 gallons
 Start Time: 9:46 Appearance of Water Turbid
 Sample Time: 10:07
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Light brown After filtration? Clear
 Reaction upon addition of preservatives? No
 Well condition Good but no bolts

Collected by: Vishal Shah

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-16I

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	42.5
Depth to product (ft)	X
Depth to water (ft)	2.35

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Monsoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	40
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	120

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	15.86	18.31	17.86	17.55	17.31	17.42	17.49
Spec.Cond (ms/cm)	+ / - 3%	0.909	0.975	0.999	1.020	1.02	1.03	1.04
pH	+ / - 0.1	7.37	7.28	7.24	7.24	7.23	7.23	7.23
D.O. (mg/L)	+ / - 10%	11.88	8.81	7.91	7.32	7.11	7.02	6.93
ORP (mV)	+ / - 10mV	-121	-127	-128	-129	-129	-130	-130
Turbidity (NTU)	+ / - 10%	234	247	208	179	164	153	144

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/19/2020 Volume of water purged from well 0.75 gallons
 Start Time: 15:36 Appearance of Water Clear
 Sample Time: 15:57
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Clear After filtration? Clear
 Reaction upon addition of preservatives? No
 Well condition Good but no bolts

Collected by: Vishal Shah

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-17S

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	32.71
Depth to product (ft)	X
Depth to water (ft)	23.27

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	29
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	120

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	15.61	15.35	15.54	15.84	16.13	16.28	16.28
Spec.Cond (ms/cm)	+ / - 3%	1.06	1.04	1.03	1.030	1.03	1.03	1.03
pH	+ / - 0.1	7.14	7.13	7.12	7.1	7.09	7.09	7.08
D.O. (mg/L)	+ / - 10%	7.91	5.75	5.66	5.63	5.7	5.59	5.47
ORP (mV)	+ / - 10mV	72	58	47	44	40	38	36
Turbidity (NTU)	+ / - 10%	0	0	963	701	486	386	369

Field Test(s) Performed	VOCs	Arsenic	Lead
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Observations

Sample Date: 8/19/2020 Volume of water purged from well 0.75 gallons
 Start Time: 12:11 Appearance of Water
 Sample Time: 12:32
 Was the dissolved metals sample filtered prior to preservation? Yes
 Method: Disposable groundwater filter capsule
 Color of water before filtration? Brown After filtration? Clear
 Reaction upon addition of preservatives? No
 Well condition Good but no bolts

Collected by: Vishal Shah

Form: DRL-8
Groundwater Sample Information Sheet

Facility Name: Douglas Road Landfill Project # 16-1731-04E Sample ID MW-17I

Monitoring Well Data	
Well Material	Metal
Inside Diameter	2in
Type	Flush
Total Depth of well (ft)	23.6
Depth to product (ft)	X
Depth to water (ft)	50

Sample Types	
Monitoring well	Yes
Grab or composite	Grab
Split sample	No
Duplicate ID:	No
MS/MSD	No
Other	No

Low Flow Sampling	
Pump (make/model)	Mansoon
Water Quality Metter (Make/Model)	Horiba
Depth of pump placement (ft)	45
Bubbles purged from flow cell?	Yes
Is drawdown > 0.3 ft?	No
Was passive sampling used?	No
Flowrate (mL/min)	120

Stability Test(s) Performed	Stability Range	Results						
		3 min	6 min	9 min	12 min	15 min	18 min	21 min
Temperature (°C)	+ / - 3%	16.85	16.96	17.22	16.68	16.59	16.53	16.44
Spec.Cond (ms/cm)	+ / - 3%	0.979	1	1.14	1.160	1.16	1.17	1.17
pH	+ / - 0.1	6.99	7.06	7.09	7.11	7.1	7.1	7.1
D.O. (mg/L)	+ / - 10%	11.19	10.09	9.51	9.42	9.29	9.18	9.07
ORP (mV)	+ / - 10mV	39	-11	-30	-28	-25	-23	-22
Turbidity (NTU)	+ / - 10%	101	90.4	92.9	41.8	33.2	23.1	19.3

Field Test(s) Performed	VOCs	Arsenic	Lead
-------------------------	------	---------	------

Observations

Sample Date: 8/19/2020 Volume of water purged from well 0.75 gallons

Start Time: 12:44 Appearance of Water

Sample Time: 13:05

Was the dissolved metals sample filtered prior to preservation? Yes

Method: Disposable groundwater filter capsule

Color of water before filtration? Clear After filtration? Clear

Reaction upon addition of preservatives? No

Well condition Good but no bolts

Collected by: Vishal Shah

ATTACHMENT 2

Data Validation



September 16, 2020

RE: Validation of Analytical Results for the
Douglas Road Landfill Superfund Site #7500008

The analytical results for the groundwater samples collected on August 18-20, 2020 have been validated according to the criteria contained in Section 1.5 of the project specific Quality Assurance Project Plan (QAPP), dated June 24, 2016 and the Sampling and Analysis Plan (SAP), dated September 12, 2016. Quality Assurance/Quality Control (QA/QC) data quality objectives (DQO) were evaluated in terms of precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS).

GENERAL COMMENTS

The purpose of this event was to sample the groundwater to confirm the concentrations of the contaminants of concern (COCs) in the groundwater and determine if the COC concentrations exceed the Site Closure Goals, as specified in the SAP. The groundwater extraction system (GES) remediation system was shut down in February 2015. This sampling data are used to help determine if cleanup standards continue to be achieved with the GES remedial system not in operation.

The samples were shipped in two coolers to Pace Analytical National (former ESC Lab Sciences) on August 20, 2020 via FedEx. Pace received the coolers on August 21, 2020. The data are presented in report packages L1253450 and L1253445 that covers twenty-seven field (investigative) samples, three field quality control (QC) samples (duplicates), and laboratory QC samples (two MS/MSD and two trip blanks). The samples were analyzed for volatile organic compounds (VOCs) using Gas Chromatography - Mass Spectrometry (GC-MS) via SW-846 Method 8260B and dissolved arsenic, iron and lead using Inductively Coupled Plasma (ICP) via SW-846 Method 6010B. Per the project protocols, samples to be analyzed via SW-846 were filtered in the field at the time of collection. The samples were analyzed in QA/QC batches using Level IV DQOs. Samples were diluted to the standard dilution of 1 and analyzed per method protocol. The data quality was not affected by the dilution.

Chain-of-Custody Documentation

The chain-of-custody was completed by the field sampling personnel. The laboratory signed the chain-of-custody documentation and completed a sample receipt checklist. The sample receipt checklist indicated that all sample aliquots were received in a sealed

cooler, at temperatures below 4°C, in laboratory supplied containers for the specified preservation, analysis, and methodology of each COC, and within method-specified holding times.

Holding Times and Sample Preservation

The holding times for the samples met QA/QC requirements. Two coolers were sent to the laboratory, which were identified by the lab as 1239 and 1240. The sample cooler temperature blanks were received by the laboratory with an internal temperature of 2.9°C and 1.1°C respectively. The sample preservation requirement of 4°C ± 2° as the reported internal cooler temperature was met by cooler 1239 but was not met by cooler 1240. Although the temperature requirement was not met for 1240, the samples were received in good condition. The cooler temperature was judged as acceptable by the laboratory since the samples were not reported to be frozen upon receipt at the laboratory and the sample containers were reported to be intact.

PRECISION

Field Precision

Field precision was assessed through the collection and analysis of field duplicates by calculating the relative percent difference (RPD) between the analytes detected in the field sample and the duplicate sample using the following simplified formula.

$$RPD = \frac{|R_1 - R_2|}{\frac{R_1 + R_2}{2}} \times 100\%$$

Three duplicate samples were collected. An extra duplicate was collected, given the sampling protocol as outlined in the SAP (1 duplicate per 20 samples). Duplicate #1 was collected from MW-01I; Duplicate #2 was collected from MW-10I; and Duplicate #3 was collected from MW-15S. The duplicate samples were also analyzed for VOCs, and dissolved arsenic, lead, and iron.

A RPD of 35% was set as the advisory limit in the QAPP. The field and duplicate samples were both below the detection limits (BDL) for VOCs, and lead resulting in a RPD of 0%. Therefore, the duplicate sample results for these analytes are in good agreement. Iron content in the field sample from MW-01I was detected at 304 micrograms per liter (ug/l), as compared to 324 ug/l in the duplicate sample resulting in a RPD of 6.4%. Iron content in the field sample from MW-10I was 2,380 ug/l as compared to 1,730 ug/l for the duplicate, resulting in a RPD of 31.6%. Iron content in the field sample from MW-15s was 12,100 ug/l as compared to 12,200 ug/l for the duplicate, resulting in a RPD of >1%. Arsenic was BDL (10ug/L) in the field sample from MW-15s as compared to 10.8 ug/L in the duplicate. An RPD value could not be calculated since no value was given for the field sample. Based upon the calculated RPD values, the field precision of the samples results is in good agreement.

Laboratory Precision

Precision of the laboratory analyses was evaluated based upon the results of the laboratory matrix spike/matrix spike duplicate (MS/MSD) analyses. Precision was reported as an RPD in the laboratory report. The laboratory ran two MS/MSD analyses, which is the correct number of MS/MSD samples given the sampling protocol as outlined in the SAP (1 MS/MSD per 20 samples). MS/MSD were collected from MW-04I and MW-13I. The MS/MSD samples were also analyzed for VOCs, and dissolved arsenic, lead, and iron. The RPD values of the MS/MSD samples for arsenic, lead, and iron were less than 1% which is within acceptable ranges. The RPD values of the MS/MSD samples for VOCs were within the acceptable ranges with exceptions for naphthalene (RPD reported at 35.5% with an RPD limit of 35%) for well MW-13I and acrolein, bromomethane (RPD reported at 74.7% with an RPD limit of 35%) and trichlorofluoromethane (RPD reported at 57.3% with an RPD limit of 31%) for well MW-04I.

ACCURACY

Field Accuracy

Trip blanks are used to assess field accuracy. The trip blank samples provide a measure of potential cross contamination of samples by VOCs during shipment and handling. Two trip blanks, consisting of one 40-milliliter vial of hydrochloride (HCL) preserved distilled water, per cooler, were submitted for VOC analysis. The results indicate no occurrence of VOC cross-contamination of the samples during handling and shipping. Project protocols require one trip blank per cooler of samples, therefore the number of trip blanks submitted for analysis was sufficient.

Laboratory Accuracy

Laboratory accuracy was assessed by determining percent recoveries of surrogate compounds from the analysis of MS/MSD, laboratory control samples (LCSs) and by method blanks.

Accuracy was generally acceptable with several VOC analytes being qualified as estimated (J) due to surrogate and/or internal standard recovery issues.

The percent recoveries for the VOC acrolein was qualified as a J4 (outside the QC limits for accuracy) for wells MW-04I, MW-14S, MW-16I, MW-17S and MW-17I. The percent recoveries for the VOCs styrene and n-butylbenzene were qualified as a J4 for wells MW-01S, MW-01I, MW-01D, MW-05I, MW-10S, MW-10I, MW-11I, MW-12S, MW-12I, MW-13I, Dup 1 and Dup 2. The percent recoveries for the VOCs chloroethane and methylene chloride were qualified as a J5 (sample matrix interfered with the ability to

make any accurate determination; spike value is high) for well MW-13I. The percent recoveries for several compounds for sample MW-04I analysis, including vinyl chloride, were qualified as a J5. The reported "J" data qualifiers were reported on compounds BDL and do not appear to have significantly affected the data quality.

The percent recoveries of the surrogate compounds are within the recovery limits.

Method blanks are used to assess potential for contamination from laboratory instruments or procedures. All target analytes were qualified as not detected (U), so the method blanks were free of contamination.

REPRESENTATIVENESS

Representativeness is dependent upon the proper design of the sampling program and is accomplished by ensuring that the QAPP, the SAP, and standard procedures are followed. The goal is to have all samples and measurements representative of the media sampled. Field testing for pH, temperature, and specific conductivity stabilization prior to groundwater sampling from the monitoring wells ensure that representative samples are collected.

The water quality was considered stable if three consecutive reads met the following criteria per Keramida Inc.'s SAP dated July 22, 2016:

- Temperature ($^{\circ}\text{C}$) range is no more than $\pm 3\%$
- pH varies by no more than ± 0.1
- Specific conductance (ms/cm) readings are within $\pm 3\%$

In addition, at least one of the following stabilization criteria must be met:

- Dissolved oxygen (mg/L) range within $\pm 10\%$
- Oxidation reduction potential (mV) readings vary by no more than $\pm 10\%$
- Turbidity (NTU) varies by no more than $\pm 10\%$

A review of the water quality parameter measurements recorded on the Groundwater Sample Information Sheet indicates that a minimum of four water quality parameters were stabilized prior to sample collection

COMPLETENESS OF DATA SET

Completeness is defined as the total number of usable results (results that were not rejected during data validation) divided by the total results reported by the laboratory. The field completeness goals stated in the QAPP is to have 90% of all samples be valid data. Completeness was assessed by comparing the number of valid (usable) sample results to the total possible number of results within a specific sample matrix or analysis using the equation below.

$$\text{Completeness} = \frac{\text{valid data}}{\text{total data}} \times 100\%$$

It was found that fifteen wells had qualifiers on a few of their compounds for a total of sixty-seven qualifiers. The qualifiers as previously mentioned were J4 (outside the QC limits for accuracy) and J5 (sample matrix interfered with the ability to make any accurate determination; spike value is high). The qualifiers were only reported on concentrations BDL and thus did not significantly impact the sampling results and were considered valid data. It was determined that all sample results were valid. Therefore, the results reported by the laboratory were 100% complete for the groundwater sample analysis.

COMPARABILITY

The data collected during this sampling event is deemed comparable to historical data. The current sampling event was based on similar objectives, standardized methods, and set remedial goals.

SENSITIVITY

The quantitation limits for the sample data was reviewed to ensure that the sensitivity of the analyses was sufficient to achieve the Site Closure Goal. The laboratory reporting limits are based on the method detection limit (MDL) adjusted for sample size and dilution. The laboratory reporting limits met the Site Closure Goal as outlined in the QAPP, with the exception of the reporting limits for arsenic. The Site Closure Goal for arsenic is set at 5 ug/l; however, the laboratory MDL for arsenic is 10 ug/l.

Arsenic was detected above the laboratory MDL of 10 ug/l in groundwater sample MW-03S, MW-06SR, and MW-15S duplicate during the sampling event. Sample MW-03S exhibited the highest concentration of arsenic at 11.7 ug/l, MW-06SR exhibited a concentration of arsenic at 11.1 ug/l and MW-10S duplicate samples exhibited a concentration of arsenic at 10.8 ug/l. The US EPA maximum contaminant level (MCL) for arsenic is 10 ug/l.

CONCLUSIONS

The data review process involved evaluating sample receipt, holding times, field duplicate results, MS/MSD results, laboratory control sample results, and surrogate recoveries. After evaluating these parameters, an overall assessment with respect to the quantitative and qualitative data quality assurance parameters of accuracy, precision, completeness, comparability, and representativeness was formulated. Based on the evaluation, it has been determined that the results are acceptable for use with qualification. The data are usable for the overall project goal.

We trust this submittal meets the requirements of the annual groundwater sampling report. If you have any additional questions or comment, please contact the undersigned at (317) 576-8058.

Patriot Engineering and Environmental, Inc.



Kendra Gutowski
Staff Engineer
Environmental Division



James Douglas Lam
Senior Project Manager
Environmental Division

ATTACHMENT 3

Analytical Reports

August 31, 2020

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Su

⁶ Gl

⁷ Al

⁸ Sc

Patriot Engineering - Ft. Wayne

Sample Delivery Group: L1253445
Samples Received: 08/21/2020
Project Number: 16-1731-04E
Description: Douglas Landfill
Site: MISHAWAKA, IN
Report To: Kendra Grossman Gutowski
6150 E. 75th Street
Indianapolis, IN 46250

Entire Report Reviewed By:



Heather J Wagner
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.





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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-02S L1253445-01 GW

				Collected by Mack/Vishal	Collected date/time 08/18/20 15:27	Received date/time 08/21/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531468	1	08/26/20 09:41	08/27/20 17:21	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531200	1	08/24/20 10:26	08/24/20 10:26	JHH	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Su

⁶ Gl

⁷ Al

⁸ Sc

MW-02I L1253445-02 GW

				Collected by Mack/Vishal	Collected date/time 08/18/20 16:07	Received date/time 08/21/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531468	1	08/26/20 09:41	08/27/20 17:24	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531200	1	08/24/20 10:45	08/24/20 10:45	JHH	Mt. Juliet, TN

MW-03S L1253445-03 GW

				Collected by Mack/Vishal	Collected date/time 08/18/20 13:58	Received date/time 08/21/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531468	1	08/26/20 09:41	08/27/20 17:27	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531200	1	08/24/20 11:04	08/24/20 11:04	JHH	Mt. Juliet, TN

MW-03I L1253445-04 GW

				Collected by Mack/Vishal	Collected date/time 08/18/20 14:38	Received date/time 08/21/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531468	1	08/26/20 09:41	08/27/20 17:30	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531200	1	08/24/20 11:24	08/24/20 11:24	JHH	Mt. Juliet, TN

MW-04I L1253445-05 GW

				Collected by Mack/Vishal	Collected date/time 08/18/20 12:27	Received date/time 08/21/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531468	1	08/26/20 09:41	08/27/20 17:11	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531200	1	08/24/20 11:43	08/24/20 11:43	JHH	Mt. Juliet, TN

MW-04D L1253445-06 GW

				Collected by Mack/Vishal	Collected date/time 08/18/20 13:18	Received date/time 08/21/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531468	1	08/26/20 09:41	08/27/20 17:38	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531200	1	08/24/20 12:02	08/24/20 12:02	JHH	Mt. Juliet, TN

MW-5S L1253445-07 GW

				Collected by Mack/Vishal	Collected date/time 08/18/20 17:04	Received date/time 08/21/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531468	1	08/26/20 09:41	08/27/20 17:41	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531200	1	08/24/20 12:21	08/24/20 12:21	JHH	Mt. Juliet, TN

ACCOUNT:

Patriot Engineering - Ft. Wayne

PROJECT:

16-1731-04E

SDG:

L1253445

DATE/TIME:

08/31/20 08:04

PAGE:

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-07S L1253445-08 GW

				Collected by Mack/Vishal	Collected date/time 08/18/20 11:46	Received date/time 08/21/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531468	1	08/26/20 09:41	08/27/20 17:44	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531200	1	08/24/20 12:41	08/24/20 12:41	JHH	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Su

⁶ Gl

⁷ Al

⁸ Sc

MW-07I L1253445-09 GW

				Collected by Mack/Vishal	Collected date/time 08/18/20 11:11	Received date/time 08/21/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531468	1	08/26/20 09:41	08/27/20 17:47	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531200	1	08/24/20 13:00	08/24/20 13:00	JHH	Mt. Juliet, TN

MW-06SR L1253445-10 GW

				Collected by Mack/Vishal	Collected date/time 08/20/20 11:17	Received date/time 08/21/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531468	1	08/26/20 09:41	08/27/20 17:49	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531305	1	08/24/20 15:57	08/24/20 15:57	JCP	Mt. Juliet, TN

MW-15S L1253445-11 GW

				Collected by Mack/Vishal	Collected date/time 08/20/20 08:38	Received date/time 08/21/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531468	1	08/26/20 09:41	08/27/20 17:52	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531305	1	08/24/20 16:17	08/24/20 16:17	JCP	Mt. Juliet, TN

MW-15I L1253445-12 GW

				Collected by Mack/Vishal	Collected date/time 08/20/20 09:23	Received date/time 08/21/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531468	1	08/26/20 09:41	08/27/20 17:55	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531305	1	08/24/20 16:37	08/24/20 16:37	JCP	Mt. Juliet, TN

MW-16S L1253445-13 GW

				Collected by Mack/Vishal	Collected date/time 08/20/20 10:07	Received date/time 08/21/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531468	1	08/26/20 09:41	08/27/20 17:58	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531305	1	08/24/20 16:58	08/24/20 16:58	JCP	Mt. Juliet, TN

DUP-3 L1253445-14 GW

				Collected by Mack/Vishal	Collected date/time 08/20/20 00:00	Received date/time 08/21/20 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531468	1	08/26/20 09:41	08/27/20 18:01	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531305	1	08/24/20 17:18	08/24/20 17:18	JCP	Mt. Juliet, TN

ACCOUNT:

Patriot Engineering - Ft. Wayne

PROJECT:

16-1731-04E

SDG:

L1253445

DATE/TIME:

08/31/20 08:04

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



TRIP BLANK L1253445-15 GW

Collected by
Mack/Vishal

Collected date/time
08/18/20 00:00

Received date/time
08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531305	1	08/24/20 11:39	08/24/20 11:39	JCP	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Su

⁶Gl

⁷Al

⁸Sc

ACCOUNT:

Patriot Engineering - Ft. Wayne

PROJECT:

16-1731-04E

SDG:

L1253445

DATE/TIME:

08/31/20 08:04

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All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Heather J Wagner
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Su

⁶ Gl

⁷ Al

⁸ Sc

Report Revision History

Level II Report - Version 1: 08/28/20 22:53



6010B Metals (ICP)

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253445-01	SDG:	L1253445
Client Sample ID:	MW-02S	Collected Date/Time:	08/18/20 15:27
Lab File ID:	20200827172153	Received Date/Time:	08/21/20 09:30
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 17:21
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	ND		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253445-02	SDG:	L1253445
Client Sample ID:	MW-02I	Collected Date/Time:	08/18/20 16:07
Lab File ID:	20200827172433	Received Date/Time:	08/21/20 09:30
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 17:24
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	0.113		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253445-03	SDG:	L1253445
Client Sample ID:	MW-03S	Collected Date/Time:	08/18/20 13:58
Lab File ID:	20200827172726	Received Date/Time:	08/21/20 09:30
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 17:27
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	0.0117		0.00440	0.0100
Iron,Dissolved	7439-89-6	3.69		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253445-04	SDG:	L1253445
Client Sample ID:	MW-03I	Collected Date/Time:	08/18/20 14:38
Lab File ID:	20200827173011	Received Date/Time:	08/21/20 09:30
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 17:30
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	0.282		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253445-05	SDG:	L1253445
Client Sample ID:	MW-04I	Collected Date/Time:	08/18/20 12:27
Lab File ID:	20200827171103	Received Date/Time:	08/21/20 09:30
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 17:11
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	0.297		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253445-06	SDG:	L1253445
Client Sample ID:	MW-04D	Collected Date/Time:	08/18/20 13:18
Lab File ID:	20200827173831	Received Date/Time:	08/21/20 09:30
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 17:38
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	ND		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253445-07	SDG:	L1253445
Client Sample ID:	MW-5S	Collected Date/Time:	08/18/20 17:04
Lab File ID:	20200827174118	Received Date/Time:	08/21/20 09:30
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 17:41
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	0.179		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253445-08	SDG:	L1253445
Client Sample ID:	MW-07S	Collected Date/Time:	08/18/20 11:46
Lab File ID:	20200827174417	Received Date/Time:	08/21/20 09:30
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 17:44
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	0.312		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253445-09	SDG:	L1253445
Client Sample ID:	MW-07I	Collected Date/Time:	08/18/20 11:11
Lab File ID:	20200827174709	Received Date/Time:	08/21/20 09:30
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 17:47
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	ND		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253445-10	SDG:	L1253445
Client Sample ID:	MW-06SR	Collected Date/Time:	08/20/20 11:17
Lab File ID:	20200827174958	Received Date/Time:	08/21/20 09:30
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 17:49
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	0.0111		0.00440	0.0100
Iron,Dissolved	7439-89-6	0.830		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253445-11	SDG:	L1253445
Client Sample ID:	MW-15S	Collected Date/Time:	08/20/20 08:38
Lab File ID:	20200827175256	Received Date/Time:	08/21/20 09:30
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 17:52
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	12.1		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253445-12	SDG:	L1253445
Client Sample ID:	MW-15I	Collected Date/Time:	08/20/20 09:23
Lab File ID:	20200827175542	Received Date/Time:	08/21/20 09:30
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 17:55
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	ND		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253445-13	SDG:	L1253445
Client Sample ID:	MW-16S	Collected Date/Time:	08/20/20 10:07
Lab File ID:	20200827175840	Received Date/Time:	08/21/20 09:30
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 17:58
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	11.8		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253445-14	SDG:	L1253445
Client Sample ID:	DUP-3	Collected Date/Time:	08/20/20 00:00
Lab File ID:	20200827180138	Received Date/Time:	08/21/20 09:30
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 18:01
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	0.0108		0.00440	0.0100
Iron,Dissolved	7439-89-6	12.2		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3564682-1	SDG:	L1253445
Client Sample ID:	BLANK	Collected Date/Time:	
Lab File ID:	20200827170539	Received Date/Time:	
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 17:05
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	U		0.00440	0.0100
Iron,Dissolved	7439-89-6	U		0.0458	0.100
Lead,Dissolved	7439-92-1	U		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3564682-2	SDG:	L1253445
Client Sample ID:	LCS	Collected Date/Time:	
Lab File ID:	20200827170816	Received Date/Time:	
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 17:08
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	0.922		0.00440	0.0100
Iron,Dissolved	7439-89-6	9.22		0.0458	0.100
Lead,Dissolved	7439-92-1	0.939		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3564682-4	SDG:	L1253445
Client Sample ID:	MS	Collected Date/Time:	08/18/20 12:27
Lab File ID:	20200827171629	Received Date/Time:	08/21/20 09:30
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 17:16
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	0.956		0.00440	0.0100
Iron,Dissolved	7439-89-6	9.59		0.0458	0.100
Lead,Dissolved	7439-92-1	0.946		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3564682-5	SDG:	L1253445
Client Sample ID:	MSD	Collected Date/Time:	08/18/20 12:27
Lab File ID:	20200827171903	Received Date/Time:	08/21/20 09:30
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 17:19
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	0.953		0.00440	0.0100
Iron,Dissolved	7439-89-6	9.50		0.0458	0.100
Lead,Dissolved	7439-92-1	0.939		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3564682-3	SDG:	L1253445
Client Sample ID:	SD	Collected Date/Time:	08/18/20 12:27
Lab File ID:	20200827171354	Received Date/Time:	08/21/20 09:30
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 09:41
Analytical Batch:	WG1531468	Analysis Date/Time:	08/27/20 17:13
Dilution Factor:	5	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.0220	0.0500
Iron,Dissolved	7439-89-6	ND		0.229	0.500
Lead,Dissolved	7439-92-1	ND		0.0148	0.0300

SDG:	L1253445	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A
Concentration Units:	mg/l		

Analyte	Sample ID:	ICV				ICVLL				ICVLL			
		ICP120827201422				ICP120827201433				ICP120827201437			
		True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1		0.9670013	96.70	0.592000	0.01	0.007378441	73.80	33.500000	0.01	0.01059888	106	35.500000
IRON	10		9.751133	97.50	0.125000	0.10	0.09249522	92.50	1.530000	0.10	0.09162604	91.60	3.080000
LEAD	1		0.9819185	98.20	0.729000	0.0050	0.004302824	86.10	6.050000	0.0050	0.004181416	83.60	31.700000

SDG:	L1253445	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A
Concentration Units:	mg/l		

Analyte	Sample ID:	CCV				CCV				CCV			
		ICP120827201659				ICP120827201732				ICP120827201807			
		True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1		0.9719821	97.20	2.120000	1	0.9914176	99.10	1.260000	1	0.9697003	97	0.724000
IRON	10		9.258957	92.60	0.240000	10	9.444783	94.40	0.323000	10	9.298018	93	0.218000
LEAD	0.50		0.4672367	93.40	0.615000	0.50	0.4782833	95.70	0.314000	0.50	0.4747969	95	0.212000

SDG:	L1253445	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A
Concentration Units:	mg/l		

CCVLL				
Sample ID:		ICP120828200223		
Analyte	True	Found	%R	%RSD
ARSENIC	0.01	0.01335363	134	29.000000
IRON	0.10	0.08962996	89.60	1.950000
LEAD	0.0050	0.005623959	112	35.100000



SDG: L1253445
Instrument ID: ICP12
Analytical Method: 6010B

Calibration (begin) date/time: 08/27/20 13:59
Calibration (end) date/time: 08/27/20 14:19
Analytical Run: 082720ICP12A

	Sample ID:	ICB Result	ICB Qual	CCB Result	CCB Qual	CCB Result	CCB Qual	CCB Result	CCB Qual
	File ID:	20200827142503		20200827170242		20200827173542		20200827181007	
Analyte		mg/l		mg/l		mg/l		mg/l	
ARSENIC		-0.003148961	U	-0.0004563414	U	-0.0002173783	U	-0.001124643	U
IRON		0.002025544	U	0.0003964285	U	-0.001316132	U	0.0004383715	U
LEAD		0.0009513575	U	0.001080691	U	0.0007152537	U	0.0006959753	U

SDG:	L1253445	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A

Sample ID: BLANK Result		BLANK Qual
File ID: 20200827170539		
Analyte	mg/l	
ARSENIC	ND	
IRON	ND	
LEAD	ND	



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INTERFERENCE CHECK SAMPLE

SDG: L1253445
Instrument ID: ICP12
Instrument Run: 082720ICP12A

Analytical Method: 6010B
Date: 08/27/20 14:45

Analyte	True	Found		True	Found	
	ICSA mg/l	ICSA mg/l	ICSA % Rec.	ICSAB mg/l	ICSAB mg/l	ICSAB % Rec.
ALUMINUM	500	494.8187	99	500	498.0267	99.60
ANTIMONY	0	0.5018981		0.50	0.509312	102
ARSENIC	0	0.5154195		0.50	0.4998643	100
BARIUM	0	0.5031974		0.50	0.4973526	99.50
BERYLLIUM	0	0.4938548		0.50	0.4895381	97.90
BORON	0	0.9524743		1	0.9472133	94.70
CADMIUM	0	1.074321		1	1.055923	106
CALCIUM	500	495.2018	99	500	496.3259	99.30
CERIUM	0	0.6764113		0	0.6824629	
CHROMIUM	0	0.4810544		0.50	0.4714307	94.30
COBALT	0	0.4983412		0.50	0.4895509	97.90
COPPER	0	0.5384941		0.50	0.5336634	107
IRON	200	197.8626	98.90	200	198.7005	99.40
LANTHANUM	0	-0.00800031		0	-0.008664113	
LEAD	0	0.9390283		1	0.9292776	92.90
LITHIUM	0	0.00576609		0	0.006603492	
MAGNESIUM	500	496.9866	99.40	500	504.6906	101
MANGANESE	0	0.4762269		0.50	0.4684453	93.70
MOLYBDENUM	0	0.5039157		0.50	0.4953084	99.10
NICKEL	0	0.9766898		1	0.9630036	96.30
PHOSPHORUS	0	0.01239431		0	0.006767591	
POTASSIUM	0	-0.09096178		0	-0.0844097	
SELENIUM	0	0.5272465		0.50	0.5097133	102
SILICON	0	0.9498153		1	0.9382829	93.80
SILVER	0	1.081443		1	1.067261	107
SODIUM	0	-0.01779349		0	0.002850245	
STRONTIUM	0	0.00463659		0	0.004609971	
SULFUR	0	0.02928118		0	0.03287973	
THALLIUM	0	0.4481429		0.50	0.4489661	89.80
TIN	0	0.4677219		0.50	0.4703778	94.10
TITANIUM	0	0.4967201		0.50	0.4912955	98.30
VANADIUM	0	0.487766		0.50	0.4854172	97.10
ZINC	0	0.9189891		1	0.9007225	90.10

ICSA Limits: 80 - 120

ICSAB Limits: 80 - 120

ACCOUNT:

Patriot Engineering - Ft. Wayne

PROJECT:

16-1731-04E

SDG:

L1253445

DATE/TIME:

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INTERFERENCE CHECK SAMPLE

SDG: L1253445
Instrument ID: ICP12
Instrument Run: 082720ICP12A

Analytical Method: 6010B
Date: 08/27/20 21:41

Analyte	True	Found		True	Found	
	ICSA mg/l	ICSA mg/l	ICSA % Rec.	ICSAB mg/l	ICSAB mg/l	ICSAB % Rec.
ALUMINUM	500	477.7909	95.60	500	481.0834	96.20
ANTIMONY	0	0.2228153		0.50	0.5047722	101
ARSENIC	0	0.205354		0.50	0.4822049	96.40
BARIUM	0	0.2166044		0.50	0.4853851	97.10
BERYLLIUM	0	0.2109572		0.50	0.4724645	94.50
BORON	0	0.3691667		1	0.9044571	90.40
CADMIUM	0	0.4670335		1	1.046251	105
CALCIUM	500	476.04	95.20	500	476.4572	95.30
CERIUM	0	0.6893226		0	0.6757407	
CHROMIUM	0	0.2080416		0.50	0.4654466	93.10
COBALT	0	0.2126393		0.50	0.4759378	95.20
COPPER	0	0.2342741		0.50	0.5182065	104
IRON	200	188.69	94.30	200	190.2328	95.10
LANTHANUM	0	-0.008582332		0	-0.01047445	
LEAD	0	0.385771		1	0.900837	90.10
LITHIUM	0	0.006323874		0	0.006426555	
MAGNESIUM	500	473.9803	94.80	500	476.0164	95.20
MANGANESE	0	0.2094922		0.50	0.4624031	92.50
MOLYBDENUM	0	0.2178035		0.50	0.4872375	97.40
NICKEL	0	0.418066		1	0.9332614	93.30
PHOSPHORUS	0	0.01185339		0	0.01107251	
POTASSIUM	0	-0.09287058		0	-0.09717159	
SELENIUM	0	0.244074		0.50	0.5022808	100
SILICON	0	0.4158021		1	0.9293542	92.90
SILVER	0	0.4823273		1	1.071474	107
SODIUM	0	-0.01072876		0	0.005829304	
STRONTIUM	0	0.004327945		0	0.004476589	
SULFUR	0	0.05500941		0	0.05466828	
THALLIUM	0	0.1850144		0.50	0.4333908	86.70
TIN	0	0.197973		0.50	0.4547468	90.90
TITANIUM	0	0.2092924		0.50	0.4761061	95.20
VANADIUM	0	0.2116209		0.50	0.4656573	93.10
ZINC	0	0.3732608		1	0.8677297	86.80

ICSA Limits: 80 - 120

ICSAB Limits: 80 - 120

ACCOUNT:

Patriot Engineering - Ft. Wayne

PROJECT:

16-1731-04E

SDG:

L1253445

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MATRIX SPIKE /
MATRIX SPIKE DUPLICATE RECOVERY
L1253445-01,02,03,04,05,06,07,08,09,10,11,12,13,14

MS Sample / File ID:	R3564682-4 / 20200827171629	SDG:	L1253445
MSD Sample / File ID:	R3564682-5 / 20200827171903	Analytical Batch:	WG1531468
OS Sample / File ID:	L1253445-05 / 20200827171103	Matrix:	GW
Instrument ID:	ICP12		
Analytical Method:	6010B		

Analyte	Spike Amount <i>mg/l</i>	OS Result <i>mg/l</i>	MS Result <i>mg/l</i>	MSD Result <i>mg/l</i>	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD %	RPD Limits %
Arsenic,Dissolved	1.00	ND	0.956	0.953	95.6	95.3	1	75.0 - 125	0.314	20
Iron,Dissolved	10.0	0.297	9.59	9.50	92.9	92.0	1	75.0 - 125	0.924	20
Lead,Dissolved	1.00	ND	0.946	0.939	94.6	93.9	1	75.0 - 125	0.704	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY
L1253445-01,02,03,04,05,06,07,08,09,10,11,12,13,14

LCS Sample / File ID:	R3564682-2 / 20200827170816	SDG:	L1253445
LCSD Sample / File ID:		Analytical Batch:	WG1531468
Instrument ID:	ICP12	Dilution Factor:	1
Analytical Method:	6010B	Matrix:	GW

Analyte	Spike Amount <i>mg/l</i>	LCS Result <i>mg/l</i>	LCSD Result	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD %	RPD Limits %
Arsenic,Dissolved	1.00	0.922		92.2		80.0 - 120		
Iron,Dissolved	10.0	9.22		92.2		80.0 - 120		
Lead,Dissolved	1.00	0.939		93.9		80.0 - 120		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

ICP AND ICP/MS
SERIAL DILUTIONS

L1253445-01,02,03,04,05,06,07,08,09,10,11,12,13,14

SD Sample / File ID:	R3564682-3 / 20200827171354	SDG:	L1253445
OS Sample / File ID:	L1253445-05 / 20200827171103	Analytical Batch:	WG1531468
Lab File ID:	20200827171354	Dilution Factor:	5
Instrument ID:	ICP12	Matrix:	GW
Analytical Method:	6010B		

Analyte	OS Result <i>mg/l</i>	SD Result <i>mg/l</i>	RPD %	RPD Limits %
Arsenic,Dissolved	ND	ND	0.000	10
Iron,Dissolved	0.297	ND	1.11	10
Lead,Dissolved	ND	ND	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Lab Sample IDs:	L1253445-01,02,03,04,05,06,07,08,09,10,11,12,13,14	Analytical Method:	6010B
Matrix:	GW	Prep Method:	3015

Analyte	CAS	Wavelength	Mass	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Iron,Dissolved	7439-89-6	189.0420	259.94	0.0458	0.10
Lead,Dissolved	7439-92-1	189.0420	220.3530	0.002950	0.0060
Arsenic,Dissolved	7440-38-2	189.0420	189.0420	0.0044	0.01

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG: L1253445
Instrument ID: ICP12**Analytical Method:** 6010B
Date: 01/25/20 14:08

Analyte	Wavelength nm	ARSENIC 189.0420	CALCIUM 317.9330	Ce 535.3530	CHROMIUM 267.7160	COBALT 228.6160	COPPER 324.7540	IRON 259.94
ALUMINUM	308.2150							
ANTIMONY	206.8330				-0.00074434			
ARSENIC	189.0420							
BARIUM	233.5270							-0.00011317
BERYLLIUM	313.0420							
CADMIUM	228.8020	-0.27876549						
COBALT	228.6160							
IRON	271.4410					-0.00018664		
LEAD	220.3530			-0.00067708			-0.00004335	
LITHIUM	670.7840		-0.00032182					
SELENIUM	196.09				-0.00001854			
THALLIUM	190.8560					-0.00016749		



SDG: L1253445
Instrument ID: ICP12

Analytical Method: 6010B
Date: 01/25/20 14:08

Analyte	Wavelength nm	La 333.7490	MOLYBDENUM 202.03	SILICON 251.6110	TITANIUM 334.9410	VANADIUM 292.4020
ALUMINUM	308.2150		-0.00106401			-0.00115081
ANTIMONY	206.8330					
ARSENIC	189.0420	-0.01388199	-0.00017103			
BARIUM	233.5270					
BERYLLIUM	313.0420					-0.02889282
CADMIUM	228.8020					
COBALT	228.6160				-0.00200552	
IRON	271.4410					
LEAD	220.3530	-0.00019448		-0.00011965		
LITHIUM	670.7840					
SELENIUM	196.09					
THALLIUM	190.8560					



SDG: L1253445
Instrument ID: ICP12

Analytical Method: 6010B
Date: 03/25/20 13:32

Analyte	LDR <i>ppm</i>
ALUMINUM	500
ANTIMONY	10
ARSENIC	50
BARIUM	50
BERYLLIUM	10
BORON	50
CADMIUM	10
CALCIUM	1000
CHROMIUM	50
COBALT	50
COPPER	50
IRON	500
LEAD	100
LITHIUM	10
MAGNESIUM	1000
MANGANESE	20
MOLYBDENUM	20
NICKEL	50
PHOSPHORUS	100
POTASSIUM	500
SELENIUM	10
SILICON	10
SILVER	10
SODIUM	1000
STRONTIUM	20
SULFUR	200
THALLIUM	10
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20



12-IN

ANALYSIS LOG

SDG:	L1253445	Analytical Method:	6010B
Instrument ID:	ICP12	Calibration Start Date:	08/27/20 13:59
Analytical Run:	082720ICP12A	Calibration End Date:	08/27/20 14:19

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP120827201356	20200827135618	08/27/20 13:56		
ICV	ICP120827201422	20200827142211	08/27/20 14:22		
ICB	ICP120827201425	20200827142503	08/27/20 14:25		
ICVLL	ICP120827201433	20200827143329	08/27/20 14:33		
ICVLL	ICP120827201437	20200827143744	08/27/20 14:37		
ICSA	ICP120827201445	20200827144514	08/27/20 14:45		
ICSAB	ICP120827201448	20200827144807	08/27/20 14:48		
CCV	ICP120827201659	20200827165949	08/27/20 16:59		
CCB	ICP120827201702	20200827170242	08/27/20 17:02		
BLANK	R3564682-1	20200827170539	08/27/20 17:05	1	WG1531468
LCS	R3564682-2	20200827170816	08/27/20 17:08	1	WG1531468
MW-04I	L1253445-05	20200827171103	08/27/20 17:11	1	WG1531468
SD	R3564682-3	20200827171354	08/27/20 17:13	5	WG1531468
MS	R3564682-4	20200827171629	08/27/20 17:16	1	WG1531468
MSD	R3564682-5	20200827171903	08/27/20 17:19	1	WG1531468
MW-02S	L1253445-01	20200827172153	08/27/20 17:21	1	WG1531468
MW-02I	L1253445-02	20200827172433	08/27/20 17:24	1	WG1531468
MW-03S	L1253445-03	20200827172726	08/27/20 17:27	1	WG1531468
MW-03I	L1253445-04	20200827173011	08/27/20 17:30	1	WG1531468
CCV	ICP120827201732	20200827173248	08/27/20 17:32		
CCB	ICP120827201735	20200827173542	08/27/20 17:35		
MW-04D	L1253445-06	20200827173831	08/27/20 17:38	1	WG1531468
MW-5S	L1253445-07	20200827174118	08/27/20 17:41	1	WG1531468
MW-07S	L1253445-08	20200827174417	08/27/20 17:44	1	WG1531468
MW-07I	L1253445-09	20200827174709	08/27/20 17:47	1	WG1531468
MW-06SR	L1253445-10	20200827174958	08/27/20 17:49	1	WG1531468
MW-15S	L1253445-11	20200827175256	08/27/20 17:52	1	WG1531468
MW-15I	L1253445-12	20200827175542	08/27/20 17:55	1	WG1531468
MW-16S	L1253445-13	20200827175840	08/27/20 17:58	1	WG1531468
DUP-3	L1253445-14	20200827180138	08/27/20 18:01	1	WG1531468
L1253668-01	L1253668-01	20200827180436	08/27/20 18:04	1	WG1531468
CCV	ICP120827201807	20200827180713	08/27/20 18:07		
CCB	ICP120827201810	20200827181007	08/27/20 18:10		
ICSA	ICP120827202141	20200827214121	08/27/20 21:41		
ICSAB	ICP120827202144	20200827214415	08/27/20 21:44		
CCVLL	ICP120828200223	20200828022322	08/28/20 02:23		

SDG:	L1253445	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A

Analyte	Std Conc mg/l	Result mg/l	Rec. %	Std Conc mg/l	Result mg/l	Rec. %
ARSENIC	0.01	.008118308	81.20	0.50	.4838186	96.80
IRON	0.10	.09354632	93.50	0.50	.4968269	99.40
LEAD	0.0050	.005023699	100	0.50	.4824479	96.50
File ID:		20200827135912			20200827140152	

SDG:	L1253445	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A

Analyte	Std Conc mg/l	Result mg/l	Rec. %	Std Conc mg/l	Result mg/l	Rec. %
ARSENIC	1	.9808191	98.10	2	2.013645	101
IRON	1	1.002552	100	2	2.006553	100
LEAD	1	.9829918	98.30	2	2.012892	101
File ID:		20200827140430			20200827140704	

SDG:	L1253445	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A

Analyte	Std Conc mg/l	Result mg/l	Rec. %
ARSENIC			
IRON	10	9.998657	100
LEAD			
File ID:	20200827140950		

SDG:	L1253445	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A

Analyte	Std Conc mg/l	Result mg/l	Rec. %	Std Conc mg/l	Result mg/l	Rec. %
IRON	10	11.09956	111	100	101.3835	101
File ID:		20200827140950			20200827141256	

SDG:	L1253445	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A

Analyte	Std Conc mg/l	Result mg/l	Rec. %
IRON	200	199.2532	99.60
File ID:		20200827141609	

INITIAL
CALIBRATION

SDG:	L1253445	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.999855	180.3615	-1.281708
IRON	259.94	8	5	0.999999	1118.334	6.580916
LEAD	220.353	8	5	0.999865	647.6705	2.41995

Calibration Type
8 = Linear Regression Forced through Blank
Weightage
5 = None

INITIAL
CALIBRATION

SDG:	L1253445	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
IRON	271.441	8	5	0.999929	85.60617	1.889283

Calibration Type
8 = Linear Regression Forced through Blank
Weightage
5 = None

Sample ID: CALBLK Units: mg/l

Analyzed: 08/27/20 13:56 Sequence: 2 Standard ID: 20F30764

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10686.67	10722.62	10679.31	10658.08
YTTRIUM	360.073	Axial	241388.4	240716.8	242023.4	241425.0
YTTRIUM	360.073	Radial	30569.57	30403.57	30722.74	30582.40
INDIUM	230.606	Axial	2972.197	2982.282	2969.090	2965.219

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	2.213397	5.400656	4.526007	-3.286471
ANTIMONY	206.833	Axial	-0.05349676	0.08909109	0.3057029	-0.5552843
ARSENIC	189.042	Axial	-1.28175	-1.160027	-1.737826	-0.9474225
BARIUM	233.527	Axial	-2.06045	-2.498612	-1.674986	-2.007765
BERYLLIUM	313.042	Radial	16.21719	17.77093	13.27618	17.60446
BORON	249.678	Radial	6.645025	7.657733	3.038122	9.239221
CADMIUM	228.802	Axial	0.9369713	-0.3680873	1.275809	1.903192
CALCIUM	317.933	Radial	352.6858	346.0962	354.7944	357.1666
CALCIUM	373.690	Radial	168.8863	170.1348	170.0100	166.5141
CERIUM	535.353	Radial	-60.0549	-53.47927	-57.93241	-68.75312
CHROMIUM	267.716	Axial	7.111111	2.166667	5.472222	13.69444
COBALT	228.616	Axial	-0.6041893	-0.5885432	-0.9927175	-0.2313072
COPPER	324.754	Axial	132.4167	135.7083	131.9583	129.5833
IRON	259.940	Radial	6.575662	8.656567	5.882027	5.188391
IRON	271.441	Radial	1.886688	3.828866	2.705177	-0.8739804
LANTHANUM	333.749	Radial	3.088989	1.193053	6.991843	1.082071
LEAD	220.353	Axial	2.421977	3.485732	2.440647	1.339551
LITHIUM	670.784	Radial	-20.0474	-28.62078	-1.123689	-30.39787
MAGNESIUM	279.079	Radial	-2.81615	-6.076244	-2.538705	0.1664724
MANGANESE	257.610	Axial	20.01389	20.6250	19.29167	20.1250
MOLYBDENUM	202.030	Axial	0.4069636	0.6329817	0.6766500	-0.08874099
NICKEL	231.604	Axial	-1.14633	-0.2554137	-2.262895	-0.9206877
PHOSPHORUS	177.495	Axial	0.3251701	-0.5774570	1.286744	0.2662230
POTASSIUM	766.490	Radial	39.63432	47.73597	36.58232	34.58465
SELENIUM	196.090	Axial	0.7953778	1.099389	0.4547976	0.8319468
SILICON	251.611	Axial	66.750	60.1250	65.91667	74.20833
SILVER	328.068	Axial	-4.54166	-3.75	-10.54167	0.6666667
SODIUM	589.592	Radial	231.6325	244.0902	239.3041	211.5032
SODIUM	818.326	Radial	-78.5888	-73.62244	-70.08490	-92.05926
STRONTIUM	421.552	Radial	49.33134	52.48044	55.80989	39.70368
SULFUR	182.034	Axial	1.079813	0.3553581	1.464226	1.419856
THALLIUM	190.856	Axial	0.6027696	0.3552271	0.9982299	0.4548517
TIN	189.989	Axial	0.009916600	-0.4532835	0.1714315	0.3116019
TITANIUM	334.941	Radial	12.30983	11.03903	16.48505	9.405413
VANADIUM	292.402	Radial	-8.23431	-11.23812	-6.721583	-6.743248
ZINC	206.200	Axial	54.40392	55.39145	54.20965	53.61065

Sample ID: ICV Units: mg/l

Analyzed: 08/27/20 14:22 Sequence: 11 Standard ID: 20G29031

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	10445.12	10456.75	10442.34	10439.36	10442.01
YTTRIUM	360.073	Axial	235161.0	235090.4	234492.4	235194.8	235866.6
YTTRIUM	360.073	Radial	30482.90	30553.54	30550.02	30507.20	30320.83
INDIUM	230.606	Axial	2837.452	2838.272	2835.198	2836.612	2839.727

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3	Conc. Rep4
ALUMINUM	308.215	Radial	2689.691	10.09271	10.05743	10.14796	10.13015	10.03531
ANTIMONY	206.833	Axial	242.7087	0.9647787	0.9624730	0.9693415	0.9660212	0.9612792
ARSENIC	189.042	Axial	169.2147	0.9670013	0.9656221	0.9645080	0.9753661	0.9625091
BARIUM	233.527	Axial	4011.986	1.012799	1.014685	1.011196	1.013694	1.011622
BERYLLIUM	313.042	Radial	105292.0	0.9937092	0.9916977	0.9946707	0.9961095	0.9923590
BORON	249.678	Radial	780.0504	1.007433	1.003976	1.008056	1.009761	1.007940
CADMIUM	228.802	Axial	4431.255	0.9906881	0.9939088	0.9885642	0.9876808	0.9925984
CALCIUM	317.933	Radial	22336.14	9.919706	9.925185	9.939472	9.914217	9.899950
CHROMIUM	267.716	Axial	6591.548	0.9930665	0.9922192	0.9940947	0.9912774	0.9946747
COBALT	228.616	Axial	3216.452	0.9902388	0.9929040	0.9909762	0.9909657	0.9861092
COPPER	324.754	Axial	18082.20	0.9743750	0.9732958	0.9777316	0.9728360	0.9736364
IRON	259.940	Radial	10880.70	9.751133	9.756881	9.763870	9.748309	9.735470
LEAD	220.353	Axial	609.4381	0.9819185	0.9722194	0.9816777	0.9891401	0.9846368
LITHIUM	670.784	Radial	11102.32	0.9742943	0.9706175	0.9756297	0.9754592	0.9754709
MAGNESIUM	279.079	Radial	1222.109	9.944442	9.944865	9.958784	9.915305	9.958815
MANGANESE	257.610	Axial	64881.45	0.9822387	0.9818774	0.9824565	0.9816005	0.9830205
MOLYBDENUM	202.030	Axial	1408.803	1.012074	1.011986	1.013466	1.014258	1.008584
NICKEL	231.604	Axial	1664.314	0.9785712	0.9824457	0.9776048	0.9780237	0.9762104
PHOSPHORUS	177.495	Axial	199.2536	0.9772537	0.9715955	0.9736058	0.9828765	0.9809371
POTASSIUM	766.490	Radial	5101.214	9.767402	9.803494	9.775693	9.753206	9.737215
SELENIUM	196.090	Axial	129.3776	0.9652736	0.9568488	0.9647320	0.9687564	0.9707571
SILICON	251.611	Axial	5515.455	1.806133	1.641589	1.757261	1.861100	1.964579
SILVER	328.068	Axial	14570.00	0.9694975	0.9673901	0.9698082	0.9699611	0.9708306
SODIUM	589.592	Radial	17539.34	9.889207	9.890800	9.918919	9.868435	9.878672
STRONTIUM	421.552	Radial	30582.13	0.3913474	0.3914638	0.3907028	0.3915614	0.3916614
SULFUR	182.034	Axial	767.2741	9.242809	9.163334	9.256058	9.285470	9.266372
THALLIUM	190.856	Axial	133.2765	0.9822403	0.9814147	0.9792771	0.9926627	0.9756068
TIN	189.989	Axial	309.0547	0.9904121	0.9828689	0.9903285	0.9983138	0.9901374
TITANIUM	334.941	Radial	8353.928	0.9959432	0.9930520	0.9936642	1.000898	0.9961584
VANADIUM	292.402	Radial	1646.925	0.9858281	0.9898814	0.9851145	0.9850869	0.9832297
ZINC	206.200	Axial	2936.730	0.9785046	0.9791534	0.9784809	0.9782197	0.9781642
CERIUM	535.353	Radial	-47.1192	0.02969931	0.02821585	-0.005709225	0.06268221	0.03360840
LANTHANUM	333.749	Radial	9.899727	0.003297327	-0.0001886306	0.005289858	0.003775512	0.004312569

Sample ID: ICB Units: mg/l

Analyzed: 08/27/20 14:25 Sequence: 12

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10600.80	10617.91	10580.20	10604.29
YTTRIUM	360.073	Axial	241409.0	242156.4	241271.7	240798.8
YTTRIUM	360.073	Radial	30725.38	30866.13	30717.59	30592.43
INDIUM	230.606	Axial	2989.129	2995.280	2980.477	2991.631

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	5.706951	0.01296676	0.01117750	0.01489201	0.01283077
ANTIMONY	206.833	Axial	4.157239	0.01648975	0.01411943	0.01638802	0.01896182
ARSENIC	189.042	Axial	-1.83458	-0.003148961	-0.005600110	-0.006119375	0.002272602
BARIUM	233.527	Axial	-1.25346	0.0001962213	0.00009223583	-0.00004463915	0.0005410674
BERYLLIUM	313.042	Radial	23.33367	0.00006569797	0.00009749058	0.00006795456	0.00003164878
BORON	249.678	Radial	5.277869	-0.001832233	0.002048759	-0.001605333	-0.005940125
CADMIUM	228.802	Axial	1.514044	0.0001283546	0.0001885428	0.0002611229	-0.00006460186
CALCIUM	317.933	Radial	97.84415	-0.1148858	-0.1137095	-0.1142921	-0.1166559
CERIUM	535.353	Radial	-75.7667	-0.03607307	-0.006925347	-0.02915200	-0.07214187
CHROMIUM	267.716	Axial	7.472222	0.00006020098	0.0002153346	-0.0002723238	0.0002375921
COBALT	228.616	Axial	-0.5491752	0.00001665682	0.0001095753	-0.0002614318	0.0002018270
COPPER	324.754	Axial	131.6111	-0.00004241458	-0.0006483030	0.0001728764	0.0003481829
IRON	259.940	Radial	8.888604	0.002025544	0.002553882	-0.0008561740	0.004378924
LANTHANUM	333.749	Radial	10.63601	0.003614908	0.002596988	0.002165758	0.006081978
LEAD	220.353	Axial	3.055106	0.0009513575	0.002858659	-0.0005158356	0.0005112493
LITHIUM	670.784	Radial	-36.9510	-0.001456258	-0.002189348	0.0002392802	-0.002418705
MAGNESIUM	279.079	Radial	-1.46804	0.01107139	-0.004795762	0.01481983	0.02319010
MANGANESE	257.610	Axial	19.08333	-0.00001150357	0.00001599695	-0.00003210115	-0.00001840652
MOLYBDENUM	202.030	Axial	1.050102	0.0004577160	0.0008829774	0.0001552942	0.0003348764
NICKEL	231.604	Axial	-2.54021	-0.0007727656	-0.001523506	-0.0007214022	-0.00007338874
PHOSPHORUS	177.495	Axial	0.2921057	-0.0001516958	0.0007380810	0.002144992	-0.003338161
POTASSIUM	766.490	Radial	12.25844	-0.05278389	-0.06110326	-0.07423739	-0.02301101
SELENIUM	196.090	Axial	0.5879090	-0.001479869	-0.008535229	0.0004146882	0.003680934
SILICON	251.611	Axial	92.16667	0.008470472	0.005486938	0.008337060	0.01158742
SILVER	328.068	Axial	-0.1388889	0.0002858350	0.0006304993	0.0002267233	0.0000002823860
SODIUM	589.592	Radial	199.4576	-0.01888993	-0.02751042	-0.02010279	-0.009056584
STRONTIUM	421.552	Radial	43.70339	-0.00007465124	-0.0001702732	0.00007874860	-0.0001324291
SULFUR	182.034	Axial	1.163493	0.001081479	0.001821713	-0.001120636	0.002543360
THALLIUM	190.856	Axial	0.9797115	0.002622619	0.008104595	0.004726665	-0.004963402
TIN	189.989	Axial	1.880032	0.005688629	0.005343073	0.007308066	0.004414749
TITANIUM	334.941	Radial	16.64501	0.0005081564	-0.0001606799	0.001193977	0.0004911724
VANADIUM	292.402	Radial	-3.00432	0.003117844	0.004417864	0.002042167	0.002893500
ZINC	206.200	Axial	1.124053	-0.01766777	-0.01766221	-0.01766085	-0.01768025

Sample ID: ICVLL Units: mg/l

Analyzed: 08/27/20 14:33 Sequence: 15 Standard ID: 20H06083

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10834.52	10834.76	10840.53	10828.26
YTTRIUM	360.073	Axial	248160.7	247621.3	250940.3	245920.5
YTTRIUM	360.073	Radial	31377.28	31342.71	31735.52	31053.61
INDIUM	230.606	Axial	3026.999	3020.849	3027.188	3032.962

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	60.26453	0.2114940	0.2081960	0.2237266	0.2025594
ANTIMONY	206.833	Axial	2.144513	0.008425621	0.007570333	0.01043206	0.007274471
ARSENIC	189.042	Axial	0.04989847	0.007378441	0.005854046	0.01023232	0.006048960
BARIUM	233.527	Axial	17.02348	0.004648948	0.004803523	0.004491109	0.004652211
BERYLLIUM	313.042	Radial	212.2955	0.001794446	0.001810432	0.001732628	0.001840277
BORON	249.678	Radial	150.1137	0.1813248	0.1805637	0.1809065	0.1825043
CADMIUM	228.802	Axial	11.14736	0.002197830	0.002058062	0.002230474	0.002304953
CALCIUM	317.933	Radial	2442.367	0.9119901	0.9098736	0.9060841	0.9200127
CHROMIUM	267.716	Axial	74.12963	0.009728303	0.01002828	0.009582397	0.009574238
COBALT	228.616	Axial	30.26580	0.008910729	0.009059836	0.009284327	0.008388024
COPPER	324.754	Axial	306.5139	0.008763319	0.008203404	0.008833013	0.009253540
IRON	259.940	Radial	112.9269	0.09249522	0.09090603	0.09298028	0.09359937
LEAD	220.353	Axial	5.302976	0.004302824	0.004003428	0.004430249	0.004474794
LITHIUM	670.784	Radial	130.8889	0.01288751	0.01302933	0.01370660	0.01192660
MAGNESIUM	279.079	Radial	114.9457	0.9293937	0.9261461	0.9356429	0.9263921
MANGANESE	257.610	Axial	678.8889	0.009615034	0.009637748	0.009671372	0.009535980
MOLYBDENUM	202.030	Axial	7.358107	0.004812109	0.004671077	0.004791325	0.004973925
NICKEL	231.604	Axial	13.97671	0.008342134	0.008204597	0.008879119	0.007942686
PHOSPHORUS	177.495	Axial	18.06249	0.08397384	0.08190642	0.08711241	0.08290267
POTASSIUM	766.490	Radial	514.7641	0.8887944	0.9045763	0.8712741	0.8905327
SELENIUM	196.090	Axial	1.981882	0.008505091	0.007812962	0.01903703	-0.001334718
SILICON	251.611	Axial	694.6389	0.2002915	0.1937717	0.2002291	0.2068735
SILVER	328.068	Axial	61.56944	0.004243532	0.004239008	0.004295662	0.004195924
SODIUM	589.592	Radial	1896.650	0.9207741	0.9209632	0.9235560	0.9178031
STRONTIUM	421.552	Radial	800.7283	0.009340770	0.009305127	0.009262103	0.009455080
SULFUR	182.034	Axial	73.77827	0.8452473	0.8348488	0.8453997	0.8554932
THALLIUM	190.856	Axial	1.802074	0.008237842	0.004668540	0.009189654	0.01085533
TIN	189.989	Axial	14.74042	0.04424718	0.04427995	0.04214851	0.04631308
TITANIUM	334.941	Radial	417.7264	0.04698741	0.04650650	0.04723324	0.04722250
VANADIUM	292.402	Radial	28.27159	0.02125373	0.02029631	0.02178396	0.02168091
ZINC	206.200	Axial	185.2727	0.04256713	0.04245567	0.04259395	0.04265176
CERIUM	535.353	Radial	-53.5160	0.01501282	0.04199550	-0.02151518	0.02455813
LANTHANUM	333.749	Radial	8.983461	0.002711942	0.002912665	0.005047586	0.0001755753

Sample ID: ICVLL Units: mg/l

Analyzed: 08/27/20 14:37 Sequence: 16 Standard ID: 20H06083

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10853.04	10880.71	10822.67	10855.74
YTTRIUM	360.073	Axial	246733.5	245487.9	246340.7	248372.0
YTTRIUM	360.073	Radial	31327.83	31541.56	31114.98	31326.96
INDIUM	230.606	Axial	3059.482	3076.334	3042.035	3060.078

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	61.73292	0.2172610	0.2237790	0.2130620	0.2149419
ANTIMONY	206.833	Axial	3.200794	0.01246095	0.005206059	0.01554371	0.01663308
ARSENIC	189.042	Axial	0.6390030	0.01059888	0.01049155	0.01441216	0.006892919
BARIUM	233.527	Axial	17.58181	0.004777202	0.005072872	0.004773206	0.004485529
BERYLLIUM	313.042	Radial	213.2821	0.001806341	0.001782892	0.001853317	0.001782815
BORON	249.678	Radial	150.5047	0.1821194	0.1804172	0.1824042	0.1835367
CADMIUM	228.802	Axial	10.22040	0.001994130	0.001996380	0.001905824	0.002080186
CALCIUM	317.933	Radial	2347.798	0.8721133	0.8729833	0.8740308	0.8693257
CHROMIUM	267.716	Axial	71.250	0.009291620	0.009482812	0.009118800	0.009273247
COBALT	228.616	Axial	30.62773	0.008920411	0.009149122	0.008878804	0.008733308
COPPER	324.754	Axial	310.9444	0.009083968	0.009518309	0.008865307	0.008868287
IRON	259.940	Radial	111.7580	0.09162604	0.09077602	0.08932426	0.09477783
LEAD	220.353	Axial	5.276679	0.004181416	0.002743500	0.004449508	0.005351238
LITHIUM	670.784	Radial	137.1755	0.01345291	0.01200558	0.01447721	0.01387594
MAGNESIUM	279.079	Radial	110.8351	0.8985128	0.8650241	0.9197704	0.9107438
MANGANESE	257.610	Axial	683.9444	0.009671857	0.009652738	0.009686603	0.009676229
MOLYBDENUM	202.030	Axial	6.592716	0.004274657	0.003961468	0.004645842	0.004216663
NICKEL	231.604	Axial	15.16731	0.008909935	0.008747555	0.009209775	0.008772474
PHOSPHORUS	177.495	Axial	18.45443	0.08568326	0.08495410	0.08673284	0.08536283
POTASSIUM	766.490	Radial	520.8426	0.9015809	0.9207896	0.8893074	0.8946457
SELENIUM	196.090	Axial	2.407099	0.01156549	0.003599110	0.01473883	0.01635851
SILICON	251.611	Axial	699.4028	0.2014353	0.1951022	0.2011816	0.2080223
SILVER	328.068	Axial	61.66667	0.004243543	0.003937657	0.004510913	0.004282058
SODIUM	589.592	Radial	1872.641	0.9091492	0.9070054	0.9249788	0.8954633
STRONTIUM	421.552	Radial	779.4919	0.009090306	0.009200281	0.008903116	0.009167522
SULFUR	182.034	Axial	73.30006	0.8382088	0.8576452	0.8327825	0.8241987
THALLIUM	190.856	Axial	1.887077	0.008702965	0.005794115	0.01126910	0.009045681
TIN	189.989	Axial	15.55287	0.04619187	0.04636910	0.04573474	0.04647176
TITANIUM	334.941	Radial	418.1561	0.04711457	0.04719801	0.04739761	0.04674810
VANADIUM	292.402	Radial	25.05103	0.01941908	0.01788482	0.02013474	0.02023769
ZINC	206.200	Axial	170.2311	0.03755117	0.03743404	0.03731739	0.03790209
CERIUM	535.353	Radial	-56.2769	0.008674048	0.01270488	0.01191138	0.001405888
LANTHANUM	333.749	Radial	10.47825	0.003431719	0.004512752	0.001769422	0.004012982

Sample ID: ICSEA Units: mg/l

Analyzed: 08/27/20 14:45 Sequence: 17 Standard ID: 20G22207

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9215.241	9220.508	9226.214	9199.002
YTTRIUM	360.073	Axial	206784.4	207170.6	206495.6	206687.0
YTTRIUM	360.073	Radial	28961.23	29096.27	28991.64	28795.78
INDIUM	230.606	Axial	2388.672	2389.702	2385.113	2391.203

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	125183.2	494.8187	493.9874	495.3501	495.1186
ANTIMONY	206.833	Axial	111.3727	0.5018981	0.5075027	0.4962727	0.5019188
ARSENIC	189.042	Axial	79.05733	0.5154195	0.5149119	0.5190444	0.5123022
BARIUM	233.527	Axial	1757.702	0.5031974	0.5041023	0.5005623	0.5049276
BERYLLIUM	313.042	Radial	49723.48	0.4938548	0.4932466	0.4939938	0.4943241
BORON	249.678	Radial	701.0146	0.9524743	0.9444226	0.9576577	0.9553425
CADMIUM	228.802	Axial	4239.416	1.074321	1.080761	1.059638	1.082565
CALCIUM	373.690	Radial	555528.4	495.2018	495.1144	492.5951	497.8958
CERIUM	535.353	Radial	234.5587	0.6764113	0.6250788	0.7021253	0.7020298
CHROMIUM	267.716	Axial	2820.230	0.4810544	0.4812166	0.4808881	0.4810584
COBALT	228.616	Axial	1362.436	0.4983412	0.4975202	0.4978319	0.4996716
COPPER	324.754	Axial	8838.131	0.5384941	0.5383897	0.5385828	0.5385097
IRON	271.441	Radial	16048.83	197.8626	197.6441	197.9170	198.0267
LANTHANUM	333.749	Radial	-12.8354	-0.008000310	-0.006891057	-0.009737560	-0.007372311
LEAD	220.353	Axial	490.7230	0.9390283	0.9396037	0.9389245	0.9385568
LITHIUM	670.784	Radial	43.51159	0.005766090	0.005760254	0.006141237	0.005396779
MAGNESIUM	279.079	Radial	58158.41	496.9866	496.2567	496.7980	497.9051
MANGANESE	257.610	Axial	27761.91	0.4762269	0.4765564	0.4753639	0.4767603
MOLYBDENUM	202.030	Axial	619.0324	0.5039157	0.5006490	0.5070121	0.5040859
NICKEL	231.604	Axial	1398.384	0.9766898	0.9775195	0.9776005	0.9749494
PHOSPHORUS	177.495	Axial	2.506713	0.01239431	0.006888994	0.01292557	0.01736838
POTASSIUM	766.490	Radial	-7.18008	-0.09096178	-0.06478881	-0.09900181	-0.1090947
SELENIUM	196.090	Axial	62.65891	0.5272465	0.5340836	0.5269397	0.5207161
SILICON	251.611	Axial	2586.344	0.9498153	0.9506650	0.9480816	0.9506995
SILVER	328.068	Axial	14339.16	1.081443	1.082102	1.079825	1.082402
SODIUM	589.592	Radial	189.8980	-0.01779349	-0.004685188	-0.03148018	-0.01721509
STRONTIUM	421.552	Radial	390.3859	0.004636590	0.004478196	0.004658587	0.004772987
SULFUR	182.034	Axial	3.073594	0.02928118	0.03676532	0.02127722	0.02980100
THALLIUM	190.856	Axial	51.45418	0.4481429	0.4520767	0.4354878	0.4568642
TIN	189.989	Axial	122.8722	0.4677219	0.4690006	0.4649062	0.4692590
TITANIUM	334.941	Radial	3964.322	0.4967201	0.4976323	0.4947349	0.4977930
VANADIUM	292.402	Radial	770.2320	0.4877660	0.4838374	0.4926875	0.4867731
ZINC	206.200	Axial	2436.202	0.9189891	0.9174979	0.9191956	0.9202736

Sample ID: ICSAB Units: mg/l

Analyzed: 08/27/20 14:48 Sequence: 18 Standard ID: 20G22211

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9241.553	9241.889	9220.124	9262.647
YTTRIUM	360.073	Axial	206397.4	206652.1	206106.5	206433.5
YTTRIUM	360.073	Radial	28779.09	28637.52	28774.33	28925.44
INDIUM	230.606	Axial	2384.606	2377.081	2378.082	2398.656

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	125203.0	498.0267	497.6610	498.3648	498.0543
ANTIMONY	206.833	Axial	113.3415	0.5093120	0.5126651	0.5078616	0.5074091
ARSENIC	189.042	Axial	76.85606	0.4998643	0.5095910	0.4965257	0.4934762
BARIUM	233.527	Axial	1742.231	0.4973526	0.4982556	0.4970167	0.4967854
BERYLLIUM	313.042	Radial	48979.11	0.4895381	0.4898380	0.4894333	0.4893429
BORON	249.678	Radial	692.8196	0.9472133	0.9397986	0.9494495	0.9523917
CADMIUM	228.802	Axial	4178.772	1.055923	1.045181	1.059517	1.063072
CALCIUM	373.690	Radial	553281.4	496.3259	498.8536	498.1968	491.9274
CERIUM	535.353	Radial	237.1945	0.6824629	0.6720514	0.7192271	0.6561102
CHROMIUM	267.716	Axial	2771.807	0.4714307	0.4722394	0.4730533	0.4689995
COBALT	228.616	Axial	1336.110	0.4895509	0.4906972	0.4889916	0.4889640
COPPER	324.754	Axial	8743.483	0.5336634	0.5336286	0.5319212	0.5354405
IRON	271.441	Radial	16015.37	198.7005	199.1585	198.6307	198.3123
LANTHANUM	333.749	Radial	-14.0413	-0.008664113	-0.01030952	-0.009047273	-0.006635544
LEAD	220.353	Axial	484.8154	0.9292776	0.9284213	0.9338908	0.9255209
LITHIUM	670.784	Radial	52.26979	0.006603492	0.006464562	0.006050691	0.007295224
MAGNESIUM	279.079	Radial	58688.45	504.6906	505.3371	505.7034	503.0313
MANGANESE	257.610	Axial	27386.42	0.4684453	0.4695726	0.4695317	0.4662314
MOLYBDENUM	202.030	Axial	610.1998	0.4953084	0.4931603	0.4973142	0.4954507
NICKEL	231.604	Axial	1376.427	0.9630036	0.9634517	0.9633251	0.9622341
PHOSPHORUS	177.495	Axial	1.502483	0.006767591	0.005271404	0.002574133	0.01245723
POTASSIUM	766.490	Radial	-3.94015	-0.08440970	-0.08732448	-0.1075560	-0.05834862
SELENIUM	196.090	Axial	60.76922	0.5097133	0.5040809	0.5194322	0.5056267
SILICON	251.611	Axial	2562.940	0.9382829	0.9425096	0.9363055	0.9360337
SILVER	328.068	Axial	14191.50	1.067261	1.069336	1.065799	1.066649
SODIUM	589.592	Radial	222.7553	0.002850245	0.008987355	0.003634593	-0.004071213
STRONTIUM	421.552	Radial	386.0215	0.004609971	0.004549253	0.004611264	0.004669397
SULFUR	182.034	Axial	3.347425	0.03287973	0.05492717	0.01356167	0.03015036
THALLIUM	190.856	Axial	51.46193	0.4489661	0.4494328	0.4393183	0.4581473
TIN	189.989	Axial	123.3574	0.4703778	0.4680034	0.4750593	0.4680708
TITANIUM	334.941	Radial	3896.527	0.4912955	0.4912884	0.4897412	0.4928568
VANADIUM	292.402	Radial	761.6719	0.4854172	0.4864696	0.4823487	0.4874333
ZINC	206.200	Axial	2395.532	0.9007225	0.8963209	0.9032087	0.9026380

Sample ID: CCV Units: mg/l

Analyzed: 08/27/20 16:59 Sequence: 64 Standard ID: 20H10527

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10133.81	10142.82	10129.50	10129.12
YTTRIUM	360.073	Axial	228897.0	229363.6	229399.1	227928.3
YTTRIUM	360.073	Radial	30226.13	30283.01	30202.05	30193.34
INDIUM	230.606	Axial	2774.850	2749.256	2779.355	2795.940

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	2572.498	9.734822	9.666923	9.760090	9.777452
ANTIMONY	206.833	Axial	116.7163	0.4783126	0.4737813	0.4755572	0.4855994
ARSENIC	189.042	Axial	165.0217	0.9719821	0.9486147	0.9874303	0.9799014
BARIUM	233.527	Axial	1857.308	0.4835346	0.4827353	0.4844394	0.4834291
BERYLLIUM	313.042	Radial	19973.71	0.1899836	0.1893040	0.1901406	0.1905063
BORON	249.678	Radial	744.4838	0.9693435	0.9672682	0.9612427	0.9795197
CADMIUM	228.802	Axial	2150.027	0.4953441	0.4907302	0.4957234	0.4995787
CALCIUM	317.933	Radial	104860.9	47.55829	47.45851	47.50141	47.71495
CHROMIUM	267.716	Axial	6118.944	0.9501389	0.9503017	0.9501397	0.9499752
COBALT	228.616	Axial	3074.941	0.9680391	0.9689262	0.9687908	0.9664003
COPPER	324.754	Axial	17096.13	0.9462622	0.9448017	0.9405698	0.9534152
IRON	259.940	Radial	10244.77	9.258957	9.249956	9.242599	9.284316
LEAD	220.353	Axial	284.7897	0.4672367	0.4654192	0.4657416	0.4705494
LITHIUM	670.784	Radial	10547.23	0.9335174	0.9312854	0.9321459	0.9371209
MAGNESIUM	279.079	Radial	1130.873	9.281698	9.308922	9.245924	9.290248
MANGANESE	257.610	Axial	59872.55	0.9342391	0.9340517	0.9329862	0.9356794
MOLYBDENUM	202.030	Axial	334.3328	0.2473447	0.2475875	0.2480293	0.2464172
NICKEL	231.604	Axial	1588.197	0.9549058	0.9554904	0.9564016	0.9528254
PHOSPHORUS	177.495	Axial	194.3252	0.9823711	0.9707201	0.9828318	0.9935614
POTASSIUM	766.490	Radial	24056.37	46.73952	46.64407	46.70803	46.86646
SELENIUM	196.090	Axial	123.5862	0.9503027	0.9367786	0.9417418	0.9723878
SILICON	251.611	Axial	6568.677	2.221982	2.155370	2.216581	2.293994
SILVER	328.068	Axial	6829.300	0.4685381	0.4680947	0.4678249	0.4696948
SODIUM	818.326	Radial	3253.475	47.66854	47.55273	47.55632	47.89658
STRONTIUM	421.552	Radial	73562.55	0.9502475	0.9474190	0.9497872	0.9535365
SULFUR	182.034	Axial	373.7635	4.634447	4.564655	4.637288	4.701399
THALLIUM	190.856	Axial	124.4322	0.9375474	0.9350163	0.9418291	0.9357969
TIN	189.989	Axial	143.6380	0.4706871	0.4721744	0.4717599	0.4681270
TITANIUM	334.941	Radial	8035.871	0.9661202	0.9629318	0.9668334	0.9685954
VANADIUM	292.402	Radial	1584.553	0.9567066	0.9508269	0.9566764	0.9626164
ZINC	206.200	Axial	2807.285	0.9638477	0.9530237	0.9666714	0.9718480
CERIUM	535.353	Radial	-24.3273	0.08202801	0.09234885	0.06960742	0.08412775
LANTHANUM	333.749	Radial	10.19701	0.003480319	0.003391807	0.005148406	0.001900743

Sample ID: CCB Units: mg/l

Analyzed: 08/27/20 17:02 Sequence: 65

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10566.85	10588.27	10551.59	10560.69
YTTRIUM	360.073	Axial	242747.0	243881.2	243131.4	241228.3
YTTRIUM	360.073	Radial	30696.28	30732.48	30603.04	30753.33
INDIUM	230.606	Axial	2999.117	3005.003	2996.702	2995.647

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	7.010878	0.01785752	0.01535341	0.02461379	0.01360536
ANTIMONY	206.833	Axial	1.456407	0.005934522	0.003092338	0.008947704	0.005763524
ARSENIC	189.042	Axial	-1.34818	-0.0004563414	0.002389073	-0.002329322	-0.001428776
BARIUM	233.527	Axial	-2.46899	-0.0001074044	-0.0005009044	0.0001058002	0.00007289098
BERYLLIUM	313.042	Radial	16.11333	-0.000001725174	0.00004990139	-0.00003825633	-0.00001682058
BORON	249.678	Radial	6.695282	0.00002535179	0.00006984643	0.003596173	-0.003589964
CADMIUM	228.802	Axial	1.893659	0.0002130736	0.0003604968	0.000005759093	0.0002729647
CALCIUM	317.933	Radial	93.75436	-0.1166708	-0.1146309	-0.1158626	-0.1195189
CERIUM	535.353	Radial	-78.3277	-0.04195306	-0.04357178	-0.02409615	-0.05819126
CHROMIUM	267.716	Axial	6.277778	-0.0001141104	0.0001114259	0.0001154628	-0.0005692199
COBALT	228.616	Axial	-0.9148861	-0.00008898151	-0.000002592579	-0.0003906256	0.0001262737
COPPER	324.754	Axial	123.9861	-0.0004823212	-0.0007957181	-0.0001750885	-0.0004761569
IRON	259.940	Radial	7.052401	0.0003964285	0.0009759351	0.0008450543	-0.0006317040
LANTHANUM	333.749	Radial	4.540553	0.0006914391	0.002170061	-0.001095573	0.000998300
LEAD	220.353	Axial	3.147147	0.001080691	-0.0003786106	0.001077494	0.002543189
LITHIUM	670.784	Radial	-20.2824	-0.000008812936	-0.0006444596	0.0003159005	0.0003021204
MAGNESIUM	279.079	Radial	-2.31441	0.004169740	0.003751110	-0.01108122	0.01983933
MANGANESE	257.610	Axial	26.05556	0.00009384540	0.00006853434	0.0001528759	0.00006012595
MOLYBDENUM	202.030	Axial	1.154914	0.0005348566	0.0005411784	0.0001727785	0.0008906130
NICKEL	231.604	Axial	-2.37275	-0.0006749750	-0.0009705382	-0.001049150	-0.000005236775
PHOSPHORUS	177.495	Axial	0.07773459	-0.001191816	0.0009623592	-0.002862969	-0.001674838
POTASSIUM	766.490	Radial	21.80365	-0.03456092	-0.001746231	-0.06161146	-0.04032508
SELENIUM	196.090	Axial	0.9957431	0.001552277	0.004117039	-0.002119295	0.002659088
SILICON	251.611	Axial	83.40278	0.005698203	0.002375591	0.005780354	0.008938665
SILVER	328.068	Axial	-1.41666	0.0002021991	0.00001624153	0.0004048791	0.0001854767
SODIUM	589.592	Radial	181.0413	-0.02926733	-0.02442852	-0.03498302	-0.02839044
STRONTIUM	421.552	Radial	45.22878	-0.00005481307	-0.000007186557	-0.00007879277	-0.00007845987
SULFUR	182.034	Axial	0.9204763	-0.001767463	-0.005080989	-0.003639885	0.003418484
THALLIUM	190.856	Axial	0.8215978	0.001484467	0.009242335	-0.002628497	-0.002160438
TIN	189.989	Axial	1.110158	0.003334509	0.002010917	0.003634051	0.004358558
TITANIUM	334.941	Radial	15.30995	0.0003508368	-0.0004191889	0.0005523294	0.0009193700
VANADIUM	292.402	Radial	-5.81862	0.001453582	0.0006455282	0.001329009	0.002386209
ZINC	206.200	Axial	0.6403850	-0.01782858	-0.01799528	-0.01756239	-0.01792807

Sample ID: BLANK DF: 1x Batch: WG1531468 Units: mg/l

Analyzed: 08/27/20 17:05 Sequence: 66

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10279.50	10291.86	10278.25	10268.39
YTTRIUM	360.073	Axial	237235.2	238547.9	236741.0	236416.6
YTTRIUM	360.073	Radial	30079.97	30115.03	30041.91	30082.97
INDIUM	230.606	Axial	2892.217	2899.234	2897.418	2880.00

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.7578833	0.002733924	0.007765739	0.003075589	-0.002639557
BARIUM	233.527	Axial	-2.09450	-0.00002889286	-0.0002171554	0.00005523982	0.00007523699
CADMIUM	228.802	Axial	1.949183	0.0002378420	-0.00004241691	0.00007983119	0.0006761118
CHROMIUM	267.716	Axial	9.666667	0.0004313607	0.0006933464	0.0002997199	0.0003010157
IRON	259.940	Radial	12.54490	0.005516471	0.005876382	0.007924637	0.002748393
LEAD	220.353	Axial	2.739154	0.0006101017	0.0007269584	0.0003324131	0.0007709335
SELENIUM	196.090	Axial	0.3108111	-0.003463565	0.0006814328	-0.007865295	-0.003206832
SILVER	328.068	Axial	1.680556	0.0004087725	0.0004020229	0.0002697805	0.0005545140
ALUMINUM	308.215	Radial	11.06193	0.03380402	0.04169507	0.04829758	0.01141941
ANTIMONY	206.833	Axial	0.9281911	0.003958923	0.003961231	0.001294921	0.006620618
BERYLLIUM	313.042	Radial	19.28669	0.00003175864	0.00005326036	0.00001828590	0.00002372965
BORON	249.678	Radial	7.472361	0.001222379	0.0004679345	-0.0001149642	0.003314166
CALCIUM	317.933	Radial	108.0492	-0.1092763	-0.1085384	-0.1107220	-0.1085684
COBALT	228.616	Axial	-0.8091922	-0.00006662154	-0.0002570869	0.00002642575	0.00003079649
COPPER	324.754	Axial	126.7639	-0.0001826994	0.0002057506	-0.0006871709	-0.00006667790
LITHIUM	670.784	Radial	-14.2565	0.0004901528	-0.0005106257	0.0009672226	0.001013862
MAGNESIUM	279.079	Radial	-4.13226	-0.01113680	-0.02331652	-0.006287292	-0.003806583
MANGANESE	257.610	Axial	48.58333	0.0004513715	0.0004293257	0.0004559358	0.0004688530
MOLYBDENUM	202.030	Axial	0.3661756	-0.00001779574	-0.0003015860	-0.00003399350	0.0002821923
NICKEL	231.604	Axial	-1.71697	-0.0003458902	-0.0004738418	-0.0002828403	-0.0002809884
PHOSPHORUS	177.495	Axial	1.195028	0.004399860	0.002087130	0.004531236	0.006581213
POTASSIUM	766.490	Radial	8.569665	-0.05955711	-0.04582187	-0.06946097	-0.06338849
SILICON	251.611	Axial	82.59722	0.006189404	0.003991656	0.006200476	0.008376080
SODIUM	589.592	Radial	240.7073	0.007398634	-0.001740505	0.01327034	0.01066607
STRONTIUM	421.552	Radial	41.34385	-0.00009338909	-0.0001904071	-0.00003399502	-0.00005576512
SULFUR	182.034	Axial	1.840107	0.009812185	0.006831642	0.007311349	0.01529356
THALLIUM	190.856	Axial	0.7766400	0.001384602	-0.002493997	0.002497538	0.004150266
TIN	189.989	Axial	0.9690706	0.003014973	0.003814321	0.001643233	0.003587367
TITANIUM	334.941	Radial	17.12988	0.0006087330	-0.0002512368	0.001389902	0.0006875342
VANADIUM	292.402	Radial	-7.14598	0.0005818873	0.001426930	0.0004135840	-0.00009485248
ZINC	206.200	Axial	3.267195	-0.01691700	-0.01694216	-0.01703261	-0.01677622
CERIUM	535.353	Radial	-71.6335	-0.02658362	-0.04959156	-0.03210552	0.001946234
LANTHANUM	333.749	Radial	10.44310	0.003624378	0.003261271	0.002335507	0.005276356

Sample ID: LCS DF: 1x Batch: WG1531468 Units: mg/l

Analyzed: 08/27/20 17:08 Sequence: 67

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10200.35	10214.07	10170.45	10216.53
YTTRIUM	360.073	Axial	233403.8	233675.0	234374.3	232162.2
YTTRIUM	360.073	Radial	30322.39	30299.68	30275.56	30391.94
INDIUM	230.606	Axial	2790.943	2791.945	2785.713	2795.173

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	141.6020	0.8296408	0.8276997	0.8310949	0.8301279
BARIUM	233.527	Axial	3359.383	0.8684767	0.8665804	0.8685209	0.8703288
CADMIUM	228.802	Axial	3756.768	0.8600241	0.8580450	0.8613456	0.8606817
CHROMIUM	267.716	Axial	5594.647	0.8629660	0.8650111	0.8641772	0.8597097
IRON	259.940	Radial	9215.050	8.301295	8.291274	8.331466	8.281145
LEAD	220.353	Axial	516.4069	0.8453718	0.8442456	0.8431907	0.8486791
SELENIUM	196.090	Axial	110.8045	0.8458050	0.8550810	0.8361176	0.8462165
SILVER	328.068	Axial	2336.618	0.1594583	0.1593406	0.1599530	0.1590812
ALUMINUM	308.215	Radial	2290.166	8.637901	8.578710	8.670122	8.664871
ANTIMONY	206.833	Axial	213.3318	0.8683715	0.8664587	0.8676427	0.8710132
BERYLLIUM	313.042	Radial	90368.56	0.8573615	0.8548323	0.8592917	0.8579606
BORON	249.678	Radial	657.2308	0.8519812	0.8496606	0.8537322	0.8525507
CALCIUM	317.933	Radial	18741.75	8.342677	8.317070	8.375900	8.335060
COBALT	228.616	Axial	2741.981	0.8582562	0.8571011	0.8597165	0.8579512
COPPER	324.754	Axial	15249.30	0.8268622	0.8223100	0.8270881	0.8311886
LITHIUM	670.784	Radial	9509.973	0.8392172	0.8371955	0.8423552	0.8381008
MAGNESIUM	279.079	Radial	1025.166	8.389658	8.379300	8.428556	8.361117
MANGANESE	257.610	Axial	55315.53	0.8574811	0.8572329	0.8598214	0.8553889
MOLYBDENUM	202.030	Axial	1189.955	0.8753314	0.8714003	0.8767488	0.8778451
NICKEL	231.604	Axial	1422.002	0.8501168	0.8509703	0.8508372	0.8485429
PHOSPHORUS	177.495	Axial	172.0521	0.8639043	0.8680923	0.8618326	0.8617881
POTASSIUM	766.490	Radial	4319.202	8.302537	8.305266	8.297912	8.304434
SILICON	251.611	Axial	2431.746	0.8035408	0.7987591	0.8062297	0.8056336
SODIUM	589.592	Radial	14931.63	8.444474	8.421285	8.475961	8.436175
STRONTIUM	421.552	Radial	66382.86	0.8547117	0.8510482	0.8545718	0.8585150
SULFUR	182.034	Axial	653.1293	8.054957	8.022841	8.080636	8.061393
THALLIUM	190.856	Axial	114.9226	0.8605559	0.8603192	0.8567058	0.8646428
TIN	189.989	Axial	265.8354	0.8661016	0.8714430	0.8652995	0.8615625
TITANIUM	334.941	Radial	7105.916	0.8514234	0.8508617	0.8490031	0.8544055
VANADIUM	292.402	Radial	1412.967	0.8509387	0.8491137	0.8523941	0.8513082
ZINC	206.200	Axial	2477.693	0.8429142	0.8421607	0.8451317	0.8414502
CERIUM	535.353	Radial	-65.4125	-0.01230060	-0.02060931	-0.01808532	0.001792836
LANTHANUM	333.749	Radial	9.345666	0.003053779	0.002618090	0.005043443	0.001499804

Sample ID: L1253445-05 DF: 1x Batch: WG1531468 Units: mg/l

Analyzed: 08/27/20 17:11 Sequence: 68

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9910.678	9917.251	9890.996	9923.787
YTTRIUM	360.073	Axial	224265.1	224114.2	223597.6	225083.4
YTTRIUM	360.073	Radial	29657.69	29706.39	29721.09	29545.61
INDIUM	230.606	Axial	2713.818	2721.969	2716.694	2702.792

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.9993098	0.001133320	0.0006780504	0.002498016	0.0002238949
BARIUM	233.527	Axial	372.2360	0.09949443	0.09954062	0.09971408	0.09922858
CADMIUM	228.802	Axial	1.102411	0.00005442573	0.000003908575	-0.000001301866	0.0001606705
CHROMIUM	267.716	Axial	249.7043	0.03864072	0.03878914	0.03876442	0.03836861
IRON	259.940	Radial	296.1450	0.2670641	0.2661100	0.2692085	0.2658738
LEAD	220.353	Axial	3.186446	0.001647509	0.004072645	0.0008611597	0.000008722362
SELENIUM	196.090	Axial	0.8360343	0.0007790569	0.0003986653	-0.001173850	0.003112356
SILVER	328.068	Axial	-8.38349	-0.0002930796	-0.0008108809	-0.0006111690	0.0005428110
ALUMINUM	308.215	Radial	9.679575	0.02902634	0.04454124	0.03381216	0.008725610
ANTIMONY	206.833	Axial	0.2123005	0.001095384	-0.001009273	-0.001819582	0.006115006
BERYLLIUM	313.042	Radial	26.80500	0.0001073518	0.0001015400	0.0001066705	0.0001138449
BORON	249.678	Radial	28.21662	0.02913829	0.03149765	0.02576407	0.03015315
CALCIUM	373.690	Radial	95593.55	83.09213	82.93157	83.13100	83.21382
COBALT	228.616	Axial	6.653570	0.002317879	0.002550983	0.002566037	0.001836618
COPPER	324.754	Axial	168.7365	0.002601702	0.002123800	0.003096993	0.002584314
LITHIUM	670.784	Radial	33.41224	0.004761575	0.005384089	0.005122570	0.003778066
MAGNESIUM	279.079	Radial	3412.727	28.49960	28.37343	28.62689	28.49849
MANGANESE	257.610	Axial	8264.319	0.1316048	0.1306322	0.1328085	0.1313737
MOLYBDENUM	202.030	Axial	4.793392	0.003345939	0.003562685	0.004275470	0.002199662
NICKEL	231.604	Axial	310.6449	0.1914876	0.1918303	0.1923293	0.1903033
PHOSPHORUS	177.495	Axial	16.20516	0.08232979	0.08590916	0.07914107	0.08193915
POTASSIUM	766.490	Radial	1281.101	2.464606	2.465232	2.465980	2.462607
SILICON	251.611	Axial	13208.80	4.591533	4.572546	4.619268	4.582784
SODIUM	818.326	Radial	6270.607	92.56233	91.94036	93.30165	92.44497
STRONTIUM	421.552	Radial	6887.659	0.09010666	0.09003779	0.09002399	0.09025821
SULFUR	182.034	Axial	874.1456	11.10063	11.11545	11.13441	11.05202
THALLIUM	190.856	Axial	0.8535188	0.002343271	0.003553838	0.001073749	0.002402226
TIN	189.989	Axial	-0.6964390	-0.002367586	0.0001155110	-0.005114478	-0.002103790
TITANIUM	334.941	Radial	42.62658	0.003766742	0.004163912	0.003242913	0.003893400
VANADIUM	292.402	Radial	-2.24379	0.003523895	0.003384595	0.002651883	0.004535206
ZINC	206.200	Axial	15.48359	-0.01250605	-0.01262783	-0.01246053	-0.01242981
CERIUM	535.353	Radial	-21.7267	0.08799861	0.08886586	0.1216433	0.05348669
LANTHANUM	333.749	Radial	7.870253	0.002418512	0.002247532	0.004118661	0.0008893424

Sample ID: SD DF: 5x Ref Sample ID: L1253445-05 Batch: WG1531468 Units: mg/l

Analyzed: 08/27/20 17:13 Sequence: 69

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10323.85	10350.11	10308.47	10312.98
YTTRIUM	360.073	Axial	234817.2	234921.2	235030.5	234499.8
YTTRIUM	360.073	Radial	30253.00	30276.85	30146.75	30335.41
INDIUM	230.606	Axial	2886.705	2901.958	2860.250	2897.907

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.9490747	0.001665510	-0.01247271	0.04924119	-0.01178583
BARIUM	233.527	Axial	76.49042	0.02003506	0.09785434	0.1000401	0.1026314
CADMIUM	228.802	Axial	1.654697	0.0001693186	-0.0001665019	0.001719564	0.0009867178
CHROMIUM	267.716	Axial	54.47222	0.007262290	0.03533767	0.03976770	0.03382899
IRON	259.940	Radial	64.97174	0.05282026	0.2647181	0.2638861	0.2636997
LEAD	220.353	Axial	3.269982	0.001466247	0.007499244	0.01226454	0.002229922
SELENIUM	196.090	Axial	0.6581172	-0.0008421956	0.02755523	-0.006383305	-0.03380486
SILVER	328.068	Axial	-11.3333	-0.0004682168	0.0003008611	-0.001023841	-0.006300272
ALUMINUM	308.215	Radial	2.386988	0.0007498282	0.03995506	0.03240383	-0.06111147
ANTIMONY	206.833	Axial	0.2605889	0.001263091	-0.01665155	0.004651304	0.03094662
BERYLLIUM	313.042	Radial	16.19013	0.000001270144	-0.00003692474	0.00002913717	0.00002683973
BORON	249.678	Radial	10.85525	0.005613352	0.01238309	0.05001189	0.02180529
CALCIUM	317.933	Radial	34729.71	15.63104	78.03616	78.27737	78.15212
COBALT	228.616	Axial	0.3589251	0.0002875682	-0.0004639472	0.002919930	0.001857540
COPPER	324.754	Axial	131.6250	0.0001527765	0.002037818	-0.0009434548	0.001197285
LITHIUM	670.784	Radial	-7.87511	0.001058108	0.005779610	0.0004419164	0.009650100
MAGNESIUM	279.079	Radial	693.6940	5.697376	28.83956	28.47982	28.14126
MANGANESE	257.610	Axial	1760.500	0.02667706	0.1336963	0.1334366	0.1330230
MOLYBDENUM	202.030	Axial	0.7654033	0.0002710582	0.001750547	0.003621035	-0.001305709
NICKEL	231.604	Axial	63.69838	0.03743546	0.1894054	0.1897927	0.1823338
PHOSPHORUS	177.495	Axial	3.809375	0.01736892	0.08015238	0.1271635	0.05321786
POTASSIUM	766.490	Radial	280.9283	0.4699502	2.336438	2.429932	2.282883
SILICON	251.611	Axial	2772.153	0.9078002	4.511947	4.537251	4.567804
SODIUM	589.592	Radial	31161.54	17.80770	88.76525	89.22487	89.12538
STRONTIUM	421.552	Radial	1451.354	0.01811303	0.09069490	0.09011789	0.09088260
SULFUR	182.034	Axial	171.9577	2.085928	10.39760	10.38607	10.50526
THALLIUM	190.856	Axial	0.6858419	0.0007474484	0.01716171	0.02708944	-0.03303942
TIN	189.989	Axial	-0.4866739	-0.001566033	-0.003908650	-0.007569979	-0.01201186
TITANIUM	334.941	Radial	20.88539	0.001047988	0.004978936	0.005268976	0.005471906
VANADIUM	292.402	Radial	-4.98187	0.001907660	0.005845126	0.01536799	0.007401788
ZINC	206.200	Axial	17.20415	-0.01213691	-0.06123380	-0.06258516	-0.05823469
CERIUM	535.353	Radial	-50.2368	0.02254170	0.1770613	0.03752606	0.1235381
LANTHANUM	333.749	Radial	2.179241	-0.0004224530	0.01291426	-0.007543658	-0.01170740

Sample ID: MS DF: 1x Ref Sample ID: L1253445-05 Batch: WG1531468 Units: mg/l
 Analyzed: 08/27/20 17:16 Sequence: 70

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9865.666	9874.346	9883.237	9839.414
YTTRIUM	360.073	Axial	222668.0	223625.2	221857.2	222521.6
YTTRIUM	360.073	Radial	29725.72	29645.05	29732.13	29800.00
INDIUM	230.606	Axial	2640.452	2641.687	2643.061	2636.609

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	142.0811	0.8604317	0.8617416	0.8511356	0.8684178
BARIUM	233.527	Axial	3622.351	0.9681703	0.9690094	0.9673617	0.9681396
CADMIUM	228.802	Axial	3732.147	0.8833781	0.8831325	0.8820000	0.8850017
CHROMIUM	267.716	Axial	5617.052	0.8958544	0.8965632	0.8940016	0.8969984
IRON	259.940	Radial	9392.142	8.630843	8.623274	8.625065	8.644189
LEAD	220.353	Axial	492.0150	0.8513735	0.8534766	0.8536673	0.8469767
SELENIUM	196.090	Axial	110.8996	0.8754524	0.8867818	0.8757921	0.8637832
SILVER	328.068	Axial	2317.802	0.1635329	0.1645134	0.1620058	0.1640795
ALUMINUM	308.215	Radial	2288.064	8.803380	8.822395	8.763248	8.824497
ANTIMONY	206.833	Axial	211.6601	0.8907955	0.8897900	0.8884348	0.8941618
BERYLLIUM	313.042	Radial	90313.09	0.8740374	0.8750724	0.8720258	0.8750139
BORON	249.678	Radial	686.9649	0.9089772	0.9127031	0.9054840	0.9087444
CALCIUM	373.690	Radial	104501.4	90.64008	90.84676	90.48339	90.59009
COBALT	228.616	Axial	2642.359	0.8742074	0.8753473	0.8742563	0.8730187
COPPER	324.754	Axial	15039.24	0.8550192	0.8540718	0.8556063	0.8553795
LITHIUM	670.784	Radial	9475.751	0.8529520	0.8545271	0.8505827	0.8537461
MAGNESIUM	279.079	Radial	4318.980	35.97925	35.96656	36.09542	35.87577
MANGANESE	257.610	Axial	60571.41	0.9708458	0.9731666	0.9679049	0.9714658
MOLYBDENUM	202.030	Axial	1180.168	0.8975909	0.8972710	0.8955672	0.8999346
NICKEL	231.604	Axial	1658.964	1.048154	1.048546	1.049150	1.046766
PHOSPHORUS	177.495	Axial	187.7251	0.9747831	0.9732728	0.9753765	0.9756998
POTASSIUM	766.490	Radial	5546.725	10.89979	10.88975	10.90755	10.90208
SILICON	251.611	Axial	15383.17	5.375433	5.391332	5.347016	5.387951
SODIUM	818.326	Radial	6696.640	98.55275	98.75365	98.51426	98.39035
STRONTIUM	421.552	Radial	72297.55	0.9496261	0.9505756	0.9485034	0.9497992
SULFUR	182.034	Axial	1508.325	19.25069	19.22559	19.23027	19.29620
THALLIUM	190.856	Axial	109.6175	0.8676487	0.8761758	0.8656034	0.8611669
TIN	189.989	Axial	253.9411	0.8745030	0.8799232	0.8704174	0.8731682
TITANIUM	334.941	Radial	7132.692	0.8718254	0.8725234	0.8707409	0.8722119
VANADIUM	292.402	Radial	1401.766	0.8610831	0.8646689	0.8577751	0.8608053
ZINC	206.200	Axial	2407.181	0.8467850	0.8474484	0.8461375	0.8467692
CERIUM	535.353	Radial	-4.66677	0.1271672	0.1660790	0.1048778	0.1105447
LANTHANUM	333.749	Radial	8.782280	0.002862716	0.002084943	0.003080607	0.003422600

Sample ID: MSD DF: 1x Ref Sample ID: L1253445-05 Batch: WG1531468 Units: mg/l
 Analyzed: 08/27/20 17:19 Sequence: 71

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9817.014	9825.588	9824.457	9800.999
YTTRIUM	360.073	Axial	223087.6	222671.2	223359.6	223232.0
YTTRIUM	360.073	Radial	29561.33	29543.27	29572.28	29568.45
INDIUM	230.606	Axial	2628.282	2630.651	2630.371	2623.824

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	140.9348	0.8577364	0.8604041	0.8470771	0.8657279
BARIUM	233.527	Axial	3558.286	0.9557662	0.9550045	0.9573736	0.9549206
CADMIUM	228.802	Axial	3674.848	0.8741211	0.8738638	0.8754024	0.8730971
CHROMIUM	267.716	Axial	5545.177	0.8887669	0.8856363	0.8881444	0.8925200
IRON	259.940	Radial	9254.336	8.551467	8.565051	8.525815	8.563534
LEAD	220.353	Axial	486.3218	0.8454002	0.8422038	0.8433592	0.8506376
SELENIUM	196.090	Axial	108.3121	0.8591770	0.8569615	0.8519007	0.8686690
SILVER	328.068	Axial	2281.545	0.1617752	0.1607695	0.1621399	0.1624162
ALUMINUM	308.215	Radial	2224.403	8.605886	8.733645	8.548054	8.535960
ANTIMONY	206.833	Axial	207.7051	0.8784859	0.8758800	0.8746380	0.8849396
BERYLLIUM	313.042	Radial	88853.54	0.8646921	0.8644546	0.8628631	0.8667585
BORON	249.678	Radial	666.9662	0.8872194	0.9035355	0.8800666	0.8780560
CALCIUM	373.690	Radial	104519.0	91.16012	91.27592	90.96880	91.23565
COBALT	228.616	Axial	2597.475	0.8633390	0.8639720	0.8638385	0.8622065
COPPER	324.754	Axial	14766.67	0.8378013	0.8375215	0.8392305	0.8366519
LITHIUM	670.784	Radial	9311.699	0.8428660	0.8426337	0.8403160	0.8456484
MAGNESIUM	279.079	Radial	4296.528	35.99121	36.06752	35.93295	35.97317
MANGANESE	257.610	Axial	59947.50	0.9656061	0.9629048	0.9662645	0.9676489
MOLYBDENUM	202.030	Axial	1148.405	0.8777509	0.8766371	0.8805249	0.8760907
NICKEL	231.604	Axial	1636.604	1.038822	1.038363	1.038252	1.039852
PHOSPHORUS	177.495	Axial	187.8834	0.9804458	0.9852346	0.9785413	0.9775616
POTASSIUM	766.490	Radial	5465.385	10.79899	10.80565	10.78459	10.80672
SILICON	251.611	Axial	15362.50	5.394873	5.368028	5.416310	5.400280
SODIUM	818.326	Radial	6666.439	98.65246	98.78244	98.34381	98.83113
STRONTIUM	421.552	Radial	71306.00	0.9418038	0.9392422	0.9407808	0.9453886
SULFUR	182.034	Axial	1512.383	19.39825	19.36799	19.33490	19.49186
THALLIUM	190.856	Axial	106.6659	0.8481033	0.8467681	0.8508246	0.8467171
TIN	189.989	Axial	250.2245	0.8656990	0.8621621	0.8634811	0.8714539
TITANIUM	334.941	Radial	6982.481	0.8581877	0.8565884	0.8555942	0.8623807
VANADIUM	292.402	Radial	1375.302	0.8495882	0.8543318	0.8443259	0.8501069
ZINC	206.200	Axial	2378.499	0.8407167	0.8387558	0.8411302	0.8422640
CERIUM	535.353	Radial	-0.3769130	0.1370164	0.1787097	0.1292735	0.1030660
LANTHANUM	333.749	Radial	9.431997	0.003212234	0.005761428	-0.0007080810	0.004583355

Sample ID: L1253445-01 DF: 1x Batch: WG1531468 Units: mg/l

Analyzed: 08/27/20 17:21 Sequence: 72

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9801.439	9817.776	9800.633	9785.909
YTTRIUM	360.073	Axial	220322.0	220675.0	219836.9	220454.2
YTTRIUM	360.073	Radial	29440.83	29560.63	29515.81	29246.04
INDIUM	230.606	Axial	2638.319	2645.570	2636.953	2632.434

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-1.11225	0.0003846172	0.002229540	-0.007675771	0.006600083
IRON	259.940	Radial	39.36536	0.03066428	0.02911195	0.03270339	0.03017749
LEAD	220.353	Axial	4.224482	0.003613572	0.001947848	0.005034282	0.003858587
ALUMINUM	308.215	Radial	9.138594	0.02729256	0.01133646	0.02721081	0.04333040
ANTIMONY	206.833	Axial	1.011556	0.004491419	0.007349753	0.003368384	0.002756118
BARIUM	233.527	Axial	69.32684	0.01914924	0.01902014	0.01908917	0.01933841
BERYLLIUM	313.042	Radial	25.42529	0.00009553975	0.0001581293	0.00009837686	0.00003011306
BORON	249.678	Radial	122.9163	0.1571187	0.1602088	0.1583399	0.1528074
CADMIUM	228.802	Axial	0.8447968	-0.00003884434	-0.0001398210	0.00006828303	0.00005988466
CALCIUM	373.690	Radial	94276.89	82.55051	82.38101	82.63252	82.63800
CERIUM	535.353	Radial	-21.0249	0.08960992	0.06389340	0.09317078	0.1117656
CHROMIUM	267.716	Axial	32.23328	0.004130604	0.004043904	0.004519300	0.003828608
COBALT	228.616	Axial	1.457817	0.0006605723	0.0005209311	0.0002514794	0.001209306
COPPER	324.754	Axial	136.2693	0.0008925968	0.0008226228	0.001093828	0.0007613396
LANTHANUM	333.749	Radial	6.522807	0.001764901	0.002196420	0.005264468	-0.002166185
LITHIUM	670.784	Radial	110.6573	0.01179248	0.01272985	0.01039460	0.01225299
MAGNESIUM	279.079	Radial	2236.641	18.82354	18.71730	18.93764	18.81567
MANGANESE	257.610	Axial	1514.176	0.02413955	0.02423874	0.02406596	0.02411396
MOLYBDENUM	202.030	Axial	4.816714	0.003402692	0.003665185	0.003821932	0.002720958
NICKEL	231.604	Axial	368.3420	0.2334114	0.2335841	0.2340530	0.2325971
PHOSPHORUS	177.495	Axial	2.404897	0.01102218	0.009096667	0.01639618	0.007573692
POTASSIUM	766.490	Radial	1235.307	2.391729	2.416767	2.395520	2.362900
SELENIUM	196.090	Axial	-0.2441338	-0.007787135	-0.008488885	-0.002279354	-0.01259317
SILICON	251.611	Axial	9125.739	3.201040	3.195071	3.196906	3.211143
SILVER	328.068	Axial	-6.68324	-0.0001792399	0.0005985523	-0.0006577231	-0.0004785490
SODIUM	818.326	Radial	10114.47	149.7089	149.1659	150.1234	149.8375
STRONTIUM	421.552	Radial	14819.56	0.1960387	0.1956087	0.1962821	0.1962254
SULFUR	182.034	Axial	993.1554	12.75434	12.74293	12.74772	12.77236
THALLIUM	190.856	Axial	0.4386475	-0.0007664512	-0.002513713	-0.001268048	0.001482406
TIN	189.989	Axial	-1.00921	-0.003509163	-0.004267040	-0.004944433	-0.001316017
TITANIUM	334.941	Radial	47.77072	0.004442439	0.003763329	0.004721982	0.004842007
VANADIUM	292.402	Radial	-7.43135	0.0003127076	0.001404969	-0.0009831285	0.0005162817
ZINC	206.200	Axial	9.023572	-0.01478011	-0.01500105	-0.01499970	-0.01433958

Sample ID: L1253445-02 DF: 1x Batch: WG1531468 Units: mg/l

Analyzed: 08/27/20 17:24 Sequence: 73

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9899.672	9901.564	9895.320	9902.133
YTTRIUM	360.073	Axial	224972.3	224856.1	225052.0	225008.9
YTTRIUM	360.073	Radial	29570.35	29684.73	29585.01	29441.31
INDIUM	230.606	Axial	2690.610	2691.437	2692.953	2687.440

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-1.28837	-0.0006050952	0.001141891	-0.001873350	-0.001083827
IRON	259.940	Radial	116.3796	0.1016960	0.1034115	0.09948567	0.1021907
LEAD	220.353	Axial	3.085595	0.001525935	0.0005778400	0.002815555	0.001184412
ALUMINUM	308.215	Radial	3.995242	0.007232603	-0.008727784	-0.005654607	0.03608020
ANTIMONY	206.833	Axial	0.1771629	0.0009519032	0.003152972	-0.002760564	0.002463302
BARIUM	233.527	Axial	158.5575	0.04271898	0.04264732	0.04277383	0.04273581
BERYLLIUM	313.042	Radial	20.59855	0.00004766540	0.00004583061	0.00008252868	0.00001463690
BORON	249.678	Radial	40.23638	0.04538404	0.04687918	0.04483091	0.04444202
CADMIUM	228.802	Axial	2.492660	0.0003828321	0.0003625423	0.0005411793	0.0002447748
CALCIUM	373.690	Radial	88100.81	76.79460	76.63692	76.98199	76.76488
CERIUM	535.353	Radial	-17.5402	0.09761074	0.08427069	0.1242132	0.08434829
CHROMIUM	267.716	Axial	131.4703	0.01987040	0.02060972	0.01928557	0.01971592
COBALT	228.616	Axial	8.820659	0.003040893	0.002702524	0.003123811	0.003296343
COPPER	324.754	Axial	162.0785	0.002193386	0.002179778	0.002199534	0.002200846
LANTHANUM	333.749	Radial	12.50011	0.004722515	0.01004717	0.004037778	0.00008259480
LITHIUM	670.784	Radial	23.64545	0.003889168	0.004305953	0.003911596	0.003449957
MAGNESIUM	279.079	Radial	3012.522	25.23459	25.24664	25.12871	25.32843
MANGANESE	257.610	Axial	1933.828	0.03060228	0.03072123	0.03045703	0.03062857
MOLYBDENUM	202.030	Axial	1.494115	0.0008474521	0.001101890	0.0009174117	0.0005230542
NICKEL	231.604	Axial	249.5291	0.1552659	0.1544240	0.1551478	0.1562258
PHOSPHORUS	177.495	Axial	5.378162	0.02630920	0.02326298	0.02942566	0.02623896
POTASSIUM	766.490	Radial	965.2867	1.843874	1.833396	1.867500	1.830725
SELENIUM	196.090	Axial	1.324153	0.004654177	0.006287052	0.003919854	0.003755625
SILICON	251.611	Axial	12454.35	4.332853	4.324915	4.334034	4.339611
SILVER	328.068	Axial	-8.81465	-0.0003232873	-0.0009024438	0.0007828249	-0.0008502431
SODIUM	818.326	Radial	5246.567	77.85436	77.48973	78.28314	77.79021
STRONTIUM	421.552	Radial	7579.032	0.09951034	0.09881442	0.1000516	0.09966498
SULFUR	182.034	Axial	871.0779	11.07390	11.05780	11.09687	11.06703
THALLIUM	190.856	Axial	1.018851	0.003692025	0.005849454	0.001344263	0.003882357
TIN	189.989	Axial	-0.8058155	-0.002757006	-0.005834420	0.0006377573	-0.003074354
TITANIUM	334.941	Radial	33.36555	0.002641530	0.002597569	0.003035396	0.002291624
VANADIUM	292.402	Radial	-5.13008	0.001747087	0.0001880301	0.003525912	0.001527318
ZINC	206.200	Axial	8.430030	-0.01502535	-0.01520083	-0.01499312	-0.01488209

Sample ID: L1253445-03 DF: 1x Batch: WG1531468 Units: mg/l

Analyzed: 08/27/20 17:27 Sequence: 74

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9896.389	9885.713	9916.400	9887.053
YTTRIUM	360.073	Axial	222650.7	222648.4	221622.7	223681.1
YTTRIUM	360.073	Radial	29583.10	29371.18	29802.78	29575.34
INDIUM	230.606	Axial	2675.763	2671.453	2677.648	2678.187

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.5645888	0.01048758	0.01423731	0.009691804	0.007533623
IRON	259.940	Radial	3600.711	3.321192	3.318219	3.317683	3.327673
LEAD	220.353	Axial	4.663182	0.004259152	0.001771871	0.005076178	0.005929408
ALUMINUM	308.215	Radial	15.75870	0.05270017	0.05093463	0.04422286	0.06294300
ANTIMONY	206.833	Axial	0.7693847	0.003441992	0.007687367	-0.001358436	0.003997046
BARIUM	233.527	Axial	140.9918	0.03805487	0.03843441	0.03831068	0.03741952
BERYLLIUM	313.042	Radial	14.02007	-0.00001635841	-0.00001918754	-0.00001688349	-0.00001300419
BORON	249.678	Radial	39.74333	0.04469553	0.04607675	0.04853516	0.03947468
CADMIUM	228.802	Axial	1.789789	0.0002170810	0.0004522373	0.0002511235	-0.00005211768
CALCIUM	373.690	Radial	106213.8	92.57305	92.68874	92.40226	92.62816
CERIUM	535.353	Radial	-4.72321	0.1270376	0.1041069	0.1029994	0.1740065
CHROMIUM	267.716	Axial	45.19157	0.006143701	0.006271599	0.006138954	0.006020551
COBALT	228.616	Axial	2.631066	0.001036329	0.001062534	0.0009122974	0.001134156
COPPER	324.754	Axial	161.3087	0.002245832	0.002785740	0.002199462	0.001752295
LANTHANUM	333.749	Radial	13.50576	0.005239381	0.006190459	0.003736321	0.005791362
LITHIUM	670.784	Radial	20.02393	0.003565868	0.004336257	0.002959760	0.003401586
MAGNESIUM	279.079	Radial	2865.054	23.99108	24.21764	23.76109	23.99450
MANGANESE	257.610	Axial	25829.49	0.4125426	0.4131065	0.4118888	0.4126325
MOLYBDENUM	202.030	Axial	1.476735	0.0008346704	0.0003130500	0.0007651732	0.001425788
NICKEL	231.604	Axial	11.86891	0.008039654	0.008728995	0.007059691	0.008330277
PHOSPHORUS	177.495	Axial	6.021503	0.02965079	0.02707018	0.03215879	0.02972340
POTASSIUM	766.490	Radial	786.4748	1.487572	1.485249	1.460761	1.516707
SELENIUM	196.090	Axial	0.5033977	-0.001851064	-0.009001801	0.004614391	-0.001165783
SILICON	251.611	Axial	10011.47	3.479910	3.482295	3.468813	3.488620
SILVER	328.068	Axial	-4.16922	0.000002672212	0.0002571737	-0.0002462647	-0.000002892421
SODIUM	818.326	Radial	7330.908	108.2954	108.1670	108.3074	108.4116
STRONTIUM	421.552	Radial	11414.19	0.1501162	0.1498611	0.1502860	0.1502016
SULFUR	182.034	Axial	1148.567	14.61046	14.56701	14.63460	14.62977
THALLIUM	190.856	Axial	1.391764	0.006664488	0.008628010	0.008949732	0.002415723
TIN	189.989	Axial	-1.07089	-0.003673352	-0.005120392	-0.003320316	-0.002579349
TITANIUM	334.941	Radial	50.71497	0.004774969	0.004985896	0.004855845	0.004483165
VANADIUM	292.402	Radial	-4.99932	0.001833023	0.004526171	0.002014973	-0.001042076
ZINC	206.200	Axial	12.17993	-0.01368173	-0.01399966	-0.01326514	-0.01378038

Sample ID: L1253445-04 DF: 1x Batch: WG1531468 Units: mg/l

Analyzed: 08/27/20 17:30 Sequence: 75

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9921.445	9918.105	9913.475	9932.753
YTTRIUM	360.073	Axial	223759.4	224773.1	222172.7	224332.3
YTTRIUM	360.073	Radial	29630.89	29524.55	29669.08	29699.04
INDIUM	230.606	Axial	2712.283	2710.063	2704.029	2722.758

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.6853184	0.003013224	0.003369523	0.002204589	0.003465560
IRON	259.940	Radial	281.6038	0.2538981	0.2529706	0.2564728	0.2522508
LEAD	220.353	Axial	2.998810	0.001341214	0.003866987	0.001261500	-0.001104845
ALUMINUM	308.215	Radial	9.591278	0.02874117	0.01920828	0.03884788	0.02816735
ANTIMONY	206.833	Axial	-0.7641881	-0.002987691	-0.001933215	-0.004118604	-0.002911254
BARIUM	233.527	Axial	129.8090	0.03498949	0.03445916	0.03499831	0.03551101
BERYLLIUM	313.042	Radial	17.65326	0.00001872427	0.00002533823	0.00003149062	-0.0000006560423
BORON	249.678	Radial	35.15669	0.03846591	0.03680688	0.03613598	0.04245486
CADMIUM	228.802	Axial	0.7919972	-0.00001889858	0.0001162366	-0.0001802279	0.000007295576
CALCIUM	373.690	Radial	96354.03	83.82994	83.79760	83.93797	83.75424
CERIUM	535.353	Radial	-22.2254	0.08685364	0.06831978	0.06965283	0.1225883
CHROMIUM	267.716	Axial	214.8836	0.03306867	0.03317244	0.03286184	0.03317172
COBALT	228.616	Axial	2.816744	0.001083881	0.0006091389	0.001117888	0.001524614
COPPER	324.754	Axial	169.8005	0.002682975	0.002917025	0.002509010	0.002622891
LANTHANUM	333.749	Radial	8.868282	0.002922175	0.004116349	0.0009359918	0.003714183
LITHIUM	670.784	Radial	26.79691	0.004169529	0.003838883	0.004748797	0.003920909
MAGNESIUM	279.079	Radial	3070.807	25.66975	25.67651	25.70792	25.62483
MANGANESE	257.610	Axial	1344.350	0.02113662	0.02131798	0.02111936	0.02097254
MOLYBDENUM	202.030	Axial	3.898963	0.002663808	0.002875211	0.001790442	0.003325772
NICKEL	231.604	Axial	1136.435	0.6992163	0.6983759	0.7013151	0.6979578
PHOSPHORUS	177.495	Axial	0.7290552	0.002206525	0.001076400	0.007682875	-0.002139699
POTASSIUM	766.490	Radial	790.9746	1.493906	1.483113	1.515066	1.483537
SELENIUM	196.090	Axial	-0.05980293	-0.006306795	-0.01838800	-0.00003857477	-0.0004938148
SILICON	251.611	Axial	12728.78	4.419047	4.426919	4.430364	4.399857
SILVER	328.068	Axial	-1.47177	0.0001919219	-0.0003936286	0.0004236034	0.0005457908
SODIUM	818.326	Radial	4293.131	63.77965	63.73698	63.72107	63.88090
STRONTIUM	421.552	Radial	6968.170	0.09124957	0.09099983	0.09130793	0.09144096
SULFUR	182.034	Axial	1090.043	13.83032	13.79117	13.85058	13.84922
THALLIUM	190.856	Axial	0.4868042	-0.0004958817	0.002182901	-0.004015428	0.0003448813
TIN	189.989	Axial	-1.48969	-0.005028249	-0.006124741	-0.004719197	-0.004240807
TITANIUM	334.941	Radial	40.38960	0.003497041	0.003923272	0.002926678	0.003641173
VANADIUM	292.402	Radial	-5.27835	0.001660876	0.001578401	0.0009755593	0.002428669
ZINC	206.200	Axial	9.503688	-0.01464848	-0.01475689	-0.01467817	-0.01451038

Sample ID: CCV Units: mg/l

Analyzed: 08/27/20 17:32 Sequence: 76 Standard ID: 20H10527

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10083.17	10055.78	10089.06	10104.65
YTTRIUM	360.073	Axial	227658.3	228453.9	227086.4	227434.5
YTTRIUM	360.073	Radial	29829.20	29992.67	29803.53	29691.38
INDIUM	230.606	Axial	2756.264	2770.382	2734.561	2763.848

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	2590.506	9.933616	9.932932	9.858043	10.00987
ANTIMONY	206.833	Axial	118.5446	0.4882533	0.4967301	0.4900269	0.4780029
ARSENIC	189.042	Axial	167.5026	0.9914176	1.005002	0.9888826	0.9803681
BARIUM	233.527	Axial	1888.051	0.4939968	0.4941245	0.4952699	0.4925960
BERYLLIUM	313.042	Radial	20190.56	0.1946075	0.1937312	0.1948259	0.1952653
BORON	249.678	Radial	749.7920	0.9894553	0.9811135	0.9841189	1.003134
CADMIUM	228.802	Axial	2181.457	0.5051168	0.5099528	0.5001902	0.5052074
CALCIUM	317.933	Radial	105477.4	48.47802	48.26089	48.56436	48.60882
CHROMIUM	267.716	Axial	6206.365	0.9685816	0.9736960	0.9663562	0.9656925
COBALT	228.616	Axial	3124.288	0.9901968	0.9910787	0.9905461	0.9889656
COPPER	324.754	Axial	17214.60	0.9580886	0.9520965	0.9656326	0.9565368
IRON	259.940	Radial	10312.92	9.444783	9.409552	9.461127	9.463671
LEAD	220.353	Axial	289.5129	0.4782833	0.4797911	0.4767879	0.4782710
LITHIUM	670.784	Radial	10661.15	0.9561252	0.9509109	0.9598173	0.9576472
MAGNESIUM	279.079	Radial	1140.321	9.483251	9.498622	9.493097	9.458033
MANGANESE	257.610	Axial	60764.22	0.9529255	0.9554086	0.9541567	0.9492112
MOLYBDENUM	202.030	Axial	341.3267	0.2537950	0.2544643	0.2518804	0.2550403
NICKEL	231.604	Axial	1611.107	0.9751894	0.9748925	0.9742684	0.9764074
PHOSPHORUS	177.495	Axial	197.9954	1.005990	1.010517	1.002391	1.005063
POTASSIUM	766.490	Radial	24206.80	47.65951	47.50425	47.69603	47.77826
SELENIUM	196.090	Axial	125.2036	0.9676796	0.9730662	0.9587149	0.9712576
SILICON	251.611	Axial	6544.124	2.224694	2.162199	2.229274	2.282609
SILVER	328.068	Axial	6895.625	0.4754618	0.4767371	0.4746737	0.4749748
SODIUM	818.326	Radial	3271.617	48.55129	48.55846	48.31019	48.78522
STRONTIUM	421.552	Radial	74431.97	0.9742968	0.9702646	0.9763382	0.9762875
SULFUR	182.034	Axial	380.4466	4.741320	4.784173	4.705100	4.734689
THALLIUM	190.856	Axial	126.4059	0.9589290	0.9641048	0.9558231	0.9568590
TIN	189.989	Axial	144.8823	0.4779693	0.4774479	0.4816170	0.4748429
TITANIUM	334.941	Radial	8134.444	0.9910320	0.9865264	0.9932769	0.9932928
VANADIUM	292.402	Radial	1599.661	0.9785729	0.9759728	0.9770207	0.9827252
ZINC	206.200	Axial	2839.495	0.9801058	0.9888111	0.9690170	0.9824892
CERIUM	535.353	Radial	-32.5724	0.06309786	0.02448139	0.09675324	0.06805894
LANTHANUM	333.749	Radial	13.91222	0.005374043	0.007913082	0.001999808	0.006209238

Sample ID: CCB Units: mg/l

Analyzed: 08/27/20 17:35 Sequence: 77

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10443.58	10432.95	10446.86	10450.95
YTTRIUM	360.073	Axial	238937.3	239018.9	238675.7	239117.5
YTTRIUM	360.073	Radial	30421.73	30461.67	30431.66	30371.86
INDIUM	230.606	Axial	2938.257	2935.258	2944.587	2934.925

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	4.093858	0.007097696	0.01372455	0.01007262	-0.002504082
ANTIMONY	206.833	Axial	2.281950	0.009279534	0.009601425	0.003885388	0.01435179
ARSENIC	189.042	Axial	-1.29083	-0.0002173783	-0.0008660023	0.001284458	-0.001070590
BARIUM	233.527	Axial	-1.10602	0.0002288422	0.0001937992	0.0001274041	0.0003653232
BERYLLIUM	313.042	Radial	22.65340	0.00006157480	0.00003283332	0.00005544575	0.00009644534
BORON	249.678	Radial	9.024144	0.003141225	0.0004727771	0.001133386	0.007817513
CADMIUM	228.802	Axial	0.9154476	-0.000005838389	-0.00007511656	0.0002442136	-0.0001708486
CALCIUM	317.933	Radial	142.6620	-0.09418456	-0.09151988	-0.09297730	-0.09805651
CERIUM	535.353	Radial	-51.2797	0.02014731	0.03478098	0.03439877	-0.008737820
CHROMIUM	267.716	Axial	7.120370	0.00002390090	-0.0003620113	-0.0002791538	0.0007128678
COBALT	228.616	Axial	-0.9135284	-0.00009439642	-0.0003709025	0.0002383954	-0.0001506821
COPPER	324.754	Axial	126.7222	-0.0002325512	-0.0005916056	-0.0001144928	0.000008444756
IRON	259.940	Radial	5.083369	-0.001316132	-0.002423823	-0.0009749330	-0.0005496388
LANTHANUM	333.749	Radial	9.629573	0.003174551	0.005391009	-0.0007843180	0.004916961
LEAD	220.353	Axial	2.849282	0.0007152537	0.001373518	-0.0007219664	0.001494209
LITHIUM	670.784	Radial	-33.6983	-0.001201993	-0.001740548	-0.001454409	-0.0004110214
MAGNESIUM	279.079	Radial	-2.52248	0.002326840	-0.004533302	0.02319188	-0.01167806
MANGANESE	257.610	Axial	29.22222	0.0001463838	0.0001598783	0.0001807209	0.00009855235
MOLYBDENUM	202.030	Axial	-0.1477128	-0.0003913523	0.00008211769	-0.0009628196	-0.0002933551
NICKEL	231.604	Axial	-1.99391	-0.0004883730	-0.0007944332	0.0001538221	-0.0008245080
PHOSPHORUS	177.495	Axial	0.7027258	0.001885169	0.001000015	0.001974441	0.002681050
POTASSIUM	766.490	Radial	11.48781	-0.05407317	-0.07228775	-0.05780362	-0.03212815
SELENIUM	196.090	Axial	0.7545037	-0.0001689506	-0.001659817	0.0009106603	0.0002423049
SILICON	251.611	Axial	70.61111	0.001776447	-0.001676794	0.003100819	0.003905316
SILVER	328.068	Axial	-4.51388	-0.000004786711	0.0005975962	0.0003477838	-0.0009597402
SODIUM	589.592	Radial	208.3063	-0.01272178	-0.01188405	-0.01543373	-0.01084756
STRONTIUM	421.552	Radial	40.98878	-0.0001040868	-0.0001468390	0.00002622510	-0.0001916466
SULFUR	182.034	Axial	1.099785	0.0005220396	-0.0002281978	-0.003826369	0.005620685
THALLIUM	190.856	Axial	-0.003751411	-0.004292926	-0.003229537	-0.0001483190	-0.009500921
TIN	189.989	Axial	0.5419885	0.001644058	0.001061799	0.002081678	0.001788696
TITANIUM	334.941	Radial	17.96071	0.0006838588	0.001131749	0.0005064817	0.0004133461
VANADIUM	292.402	Radial	-5.67540	0.001507898	0.001529777	0.002213003	0.0007809152
ZINC	206.200	Axial	7.457327	-0.01551252	-0.01521028	-0.01573279	-0.01559450

Sample ID: L1253445-06 DF: 1x Batch: WG1531468 Units: mg/l

Analyzed: 08/27/20 17:38 Sequence: 78

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9963.093	9957.549	9985.614	9946.117
YTTRIUM	360.073	Axial	224932.4	223727.6	225359.7	225709.9
YTTRIUM	360.073	Radial	29839.13	29830.19	29755.95	29931.26
INDIUM	230.606	Axial	2730.909	2719.312	2766.216	2707.200

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.7853612	0.002430902	-0.004201871	0.007995055	0.003499521
IRON	259.940	Radial	91.19158	0.07765271	0.07787695	0.07692790	0.07815328
LEAD	220.353	Axial	2.922748	0.001182309	0.001841440	0.00003727323	0.001668215
ALUMINUM	308.215	Radial	8.239396	0.02334114	0.01773973	0.04177579	0.01050789
ANTIMONY	206.833	Axial	0.4367256	0.002032800	-0.0006052603	0.0002533182	0.006450343
BARIUM	233.527	Axial	216.2506	0.05771128	0.05745860	0.05795674	0.05771852
BERYLLIUM	313.042	Radial	18.01643	0.00002095413	0.00002883177	-0.00001342652	0.00004745713
BORON	249.678	Radial	25.72462	0.02558911	0.02564797	0.02502445	0.02609491
CADMIUM	228.802	Axial	1.258614	0.00008962293	0.0005206175	0.00006156456	-0.0003133133
CALCIUM	373.690	Radial	96693.65	83.53830	83.38278	83.85763	83.37449
CERIUM	535.353	Radial	-22.3128	0.08665312	0.08446147	0.09620713	0.07929076
CHROMIUM	267.716	Axial	30.35338	0.003748175	0.003287662	0.004817738	0.003139124
COBALT	228.616	Axial	2.953465	0.001121456	0.0006607865	0.001303068	0.001400512
COPPER	324.754	Axial	171.3055	0.002718950	0.002840435	0.002752689	0.002563725
LANTHANUM	333.749	Radial	8.527078	0.002720380	0.003844917	0.001454281	0.002861941
LITHIUM	670.784	Radial	47.43929	0.006001389	0.006228626	0.006393703	0.005381839
MAGNESIUM	279.079	Radial	3467.229	28.77841	28.72463	28.76856	28.84204
MANGANESE	257.610	Axial	60669.88	0.9629118	0.9660510	0.9613582	0.9613261
MOLYBDENUM	202.030	Axial	18.76865	0.01385318	0.01340223	0.01474619	0.01341111
NICKEL	231.604	Axial	1086.695	0.6640831	0.6629967	0.6641479	0.6651048
PHOSPHORUS	177.495	Axial	5.501917	0.02676680	0.02855631	0.02749943	0.02424465
POTASSIUM	766.490	Radial	1025.643	1.945549	1.917812	1.951143	1.967692
SELENIUM	196.090	Axial	1.338486	0.004698225	0.009015052	0.005052969	0.00002665538
SILICON	251.611	Axial	15727.21	5.442163	5.458318	5.430907	5.437264
SILVER	328.068	Axial	-7.39448	-0.0002199365	0.0002197645	-0.0008119508	-0.00006762321
SODIUM	818.326	Radial	2846.813	42.37734	42.16514	42.40064	42.56626
STRONTIUM	421.552	Radial	12130.66	0.1582057	0.1576966	0.1588390	0.1580815
SULFUR	182.034	Axial	857.7303	10.83438	10.75601	10.96284	10.78429
THALLIUM	190.856	Axial	0.9977865	0.003401127	0.01018392	0.003536993	-0.003517533
TIN	189.989	Axial	-1.19297	-0.004005086	-0.002305655	-0.004365008	-0.005344594
TITANIUM	334.941	Radial	39.17870	0.003313245	0.003684950	0.002671449	0.003583338
VANADIUM	292.402	Radial	-7.07877	0.0005871243	0.001500090	-0.0005612536	0.0008225364
ZINC	206.200	Axial	111.3439	0.02156728	0.02204922	0.02181006	0.02084256

Sample ID: L1253445-07 DF: 1x Batch: WG1531468 Units: mg/l

Analyzed: 08/27/20 17:41 Sequence: 79

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9980.459	9987.115	9972.962	9981.301
YTTRIUM	360.073	Axial	226238.6	227054.4	226373.9	225287.7
YTTRIUM	360.073	Radial	29614.45	29613.95	29728.24	29501.16
INDIUM	230.606	Axial	2739.693	2738.734	2743.421	2736.925

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.6186772	0.003434634	0.003152146	0.007653147	-0.0005013900
IRON	259.940	Radial	181.1189	0.1612935	0.1600653	0.1617243	0.1620907
LEAD	220.353	Axial	3.367034	0.001903158	0.001825951	0.002330535	0.001552988
ALUMINUM	308.215	Radial	17.10175	0.05781901	0.04401808	0.06101780	0.06842115
ANTIMONY	206.833	Axial	0.7338824	0.003263036	0.001709885	0.005147163	0.002932059
BARIUM	233.527	Axial	78.48702	0.02123365	0.02112624	0.02142069	0.02115401
BERYLLIUM	313.042	Radial	18.74467	0.00002936996	0.00006354774	0.00002657980	-0.000002017667
BORON	249.678	Radial	190.5148	0.2468000	0.2428832	0.2470476	0.2504692
CADMIUM	228.802	Axial	1.143855	0.00006252278	0.00002310380	0.0005456757	-0.0003812112
CALCIUM	373.690	Radial	99956.40	87.01826	87.10400	86.79530	87.15547
CERIUM	535.353	Radial	-15.1127	0.1031840	0.1055003	0.1035516	0.1005000
CHROMIUM	267.716	Axial	69.73376	0.009956919	0.009844853	0.01032293	0.009702971
COBALT	228.616	Axial	0.6750240	0.0003927786	0.0005020710	0.0002619162	0.0004143488
COPPER	324.754	Axial	151.8560	0.001564853	0.001951333	0.001178137	0.001565089
LANTHANUM	333.749	Radial	8.914383	0.002945383	0.005158337	0.002025589	0.001652222
LITHIUM	670.784	Radial	77.57552	0.008752239	0.009023420	0.007681422	0.009551876
MAGNESIUM	279.079	Radial	2249.970	18.82484	18.78316	18.77439	18.91698
MANGANESE	257.610	Axial	744.9507	0.01151017	0.01158426	0.01149617	0.01145007
MOLYBDENUM	202.030	Axial	2.094053	0.001289385	0.001148039	0.0009764924	0.001743624
NICKEL	231.604	Axial	21.31333	0.01361395	0.01365205	0.01366062	0.01352918
PHOSPHORUS	177.495	Axial	16.86237	0.08512382	0.08935984	0.08481140	0.08120023
POTASSIUM	766.490	Radial	2438.776	4.767807	4.786014	4.750810	4.766598
SELENIUM	196.090	Axial	1.043424	0.002366507	-0.00008703422	0.009006919	-0.001820365
SILICON	251.611	Axial	11208.91	3.865683	3.860658	3.867755	3.868635
SILVER	328.068	Axial	-6.91733	-0.0001864682	-0.0002713325	-0.0003630602	0.00007498795
SODIUM	818.326	Radial	2349.380	35.42590	35.44687	35.24113	35.58969
STRONTIUM	421.552	Radial	19821.81	0.2608807	0.2607191	0.2606444	0.2612786
SULFUR	182.034	Axial	1547.876	19.52838	19.50424	19.54432	19.53658
THALLIUM	190.856	Axial	0.4094166	-0.001121801	0.001087867	-0.003165057	-0.001288213
TIN	189.989	Axial	-1.48957	-0.004975970	-0.002603416	-0.006788096	-0.005536397
TITANIUM	334.941	Radial	53.25830	0.005080778	0.005147482	0.004996916	0.005097934
VANADIUM	292.402	Radial	-3.74816	0.002597616	0.003968854	0.001914694	0.001909300
ZINC	206.200	Axial	13.44396	-0.01326915	-0.01298652	-0.01309493	-0.01372600

Sample ID: L1253445-08 DF: 1x Batch: WG1531468 Units: mg/l

Analyzed: 08/27/20 17:44 Sequence: 80

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9959.719	9962.786	9970.841	9945.530
YTTRIUM	360.073	Axial	225789.2	225671.9	225624.3	226071.3
YTTRIUM	360.073	Radial	29759.66	29756.65	29677.48	29844.87
INDIUM	230.606	Axial	2706.244	2700.882	2709.450	2708.402

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.9051655	0.001721549	0.0005404904	0.002359391	0.002264765
IRON	259.940	Radial	312.5196	0.2811757	0.2828458	0.2824173	0.2782642
LEAD	220.353	Axial	3.799355	0.002707457	0.003896009	0.002176589	0.002049772
ALUMINUM	308.215	Radial	7.208648	0.01946087	0.006980693	0.04211247	0.009289452
ANTIMONY	206.833	Axial	0.8779612	0.003869262	0.003181135	0.004108768	0.004317882
BARIUM	233.527	Axial	198.1812	0.05294969	0.05269285	0.05287041	0.05328582
BERYLLIUM	313.042	Radial	18.09548	0.00002223015	0.00004849792	0.000002724751	0.00001546779
BORON	249.678	Radial	76.63233	0.09360990	0.09488915	0.09605446	0.08988609
CADMIUM	228.802	Axial	1.980328	0.0002588335	0.0001678877	0.0006376448	-0.00002903180
CALCIUM	373.690	Radial	104058.0	90.15204	90.07172	90.45372	89.93066
CERIUM	535.353	Radial	-18.8154	0.09468292	0.1068892	0.07370336	0.1034562
CHROMIUM	267.716	Axial	233.9590	0.03595462	0.03607342	0.03600836	0.03578207
COBALT	228.616	Axial	1.447515	0.0006445772	0.0005832507	0.0009157796	0.0004347013
COPPER	324.754	Axial	153.6503	0.001683609	0.001671970	0.001527840	0.001851018
LANTHANUM	333.749	Radial	9.479242	0.003199361	0.0005303502	0.002443295	0.006624437
LITHIUM	670.784	Radial	19.73196	0.003527082	0.003437591	0.004353189	0.002790466
MAGNESIUM	279.079	Radial	2562.400	21.33116	21.42907	21.36945	21.19496
MANGANESE	257.610	Axial	6149.058	0.09736068	0.09705654	0.09739317	0.09763232
MOLYBDENUM	202.030	Axial	1.205189	0.0006230972	0.0004832009	0.0004410036	0.0009450872
NICKEL	231.604	Axial	11.99635	0.008034037	0.007660017	0.007844131	0.008597962
PHOSPHORUS	177.495	Axial	4.735642	0.02282966	0.02510381	0.02206308	0.02132210
POTASSIUM	766.490	Radial	1330.357	2.553284	2.559549	2.562217	2.538086
SELENIUM	196.090	Axial	0.8983446	0.001240105	0.0003633090	0.0007957344	0.002561271
SILICON	251.611	Axial	9834.802	3.396238	3.397965	3.391952	3.398798
SILVER	328.068	Axial	-2.99258	0.00008610610	0.00003390737	0.0004227366	-0.0001983257
SODIUM	818.326	Radial	4428.435	65.47569	65.64524	65.69934	65.08248
STRONTIUM	421.552	Radial	13683.07	0.1790098	0.1787119	0.1788693	0.1794481
SULFUR	182.034	Axial	1414.987	17.88794	17.85705	17.88899	17.91778
THALLIUM	190.856	Axial	0.8255322	0.002151263	0.008539168	0.001363700	-0.003449079
TIN	189.989	Axial	-1.51506	-0.005122634	-0.004007232	-0.004953225	-0.006407444
TITANIUM	334.941	Radial	45.15493	0.004058288	0.004548660	0.004109165	0.003517040
VANADIUM	292.402	Radial	-5.24318	0.001693779	0.003575168	-0.0008691372	0.002375307
ZINC	206.200	Axial	11.23106	-0.01404647	-0.01410246	-0.01430585	-0.01373109

Sample ID: L1253445-09 DF: 1x Batch: WG1531468 Units: mg/l

Analyzed: 08/27/20 17:47 Sequence: 81

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9830.649	9824.556	9820.240	9847.151
YTTRIUM	360.073	Axial	221470.1	221020.3	221167.6	222222.3
YTTRIUM	360.073	Radial	29348.49	29228.03	29575.68	29241.78
INDIUM	230.606	Axial	2655.047	2660.308	2649.012	2655.820

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-1.03251	0.0008804135	-0.005549705	0.003277289	0.004913656
IRON	259.940	Radial	70.16950	0.05946695	0.05849438	0.06040699	0.05949949
LEAD	220.353	Axial	4.030462	0.003232599	0.001733090	0.005316083	0.002648625
ALUMINUM	308.215	Radial	6.948726	0.01873434	-0.005193445	0.03647617	0.02492031
ANTIMONY	206.833	Axial	0.4151102	0.001964913	0.003599623	0.003037885	-0.0007427680
BARIUM	233.527	Axial	412.9808	0.1112239	0.1111599	0.1120319	0.1104798
BERYLLIUM	313.042	Radial	16.52677	0.00009275941	-0.00004926699	0.00001647147	0.00006062334
BORON	249.678	Radial	32.42784	0.03524577	0.03847421	0.03157457	0.03568852
CADMIUM	228.802	Axial	1.360486	0.0001180189	-0.00005880742	0.0003639450	0.00004891919
CALCIUM	373.690	Radial	120112.1	105.5436	105.7078	105.2313	105.6917
CERIUM	535.353	Radial	-0.9438363	0.1357148	0.1256755	0.1280431	0.1534257
CHROMIUM	267.716	Axial	17.38572	0.001736243	0.001845438	0.001818319	0.001544972
COBALT	228.616	Axial	1.778356	0.0007631944	0.0003658529	0.001301610	0.0006221203
COPPER	324.754	Axial	145.5606	0.001387089	0.001449709	0.001431536	0.001280021
LANTHANUM	333.749	Radial	9.613070	0.003338995	0.005151226	0.002656471	0.002209287
LITHIUM	670.784	Radial	49.32230	0.006241205	0.005905662	0.006610438	0.006207515
MAGNESIUM	279.079	Radial	4020.202	33.92278	34.23636	33.72650	33.80549
MANGANESE	257.610	Axial	15884.00	0.2552790	0.2553687	0.2554118	0.2550564
MOLYBDENUM	202.030	Axial	2.323829	0.001489156	0.001597433	0.001699198	0.001170835
NICKEL	231.604	Axial	24.31617	0.01591340	0.01592191	0.01621072	0.01560758
PHOSPHORUS	177.495	Axial	12.69293	0.06468280	0.06383295	0.06458637	0.06562909
POTASSIUM	766.490	Radial	1308.371	2.546172	2.536670	2.509756	2.592090
SELENIUM	196.090	Axial	0.3552309	-0.003000287	-0.008578587	0.0006346034	-0.001056878
SILICON	251.611	Axial	12436.42	4.357122	4.371691	4.353794	4.345882
SILVER	328.068	Axial	-5.79754	-0.0001149144	-0.00008386339	-0.0004532991	0.0001924193
SODIUM	818.326	Radial	6147.052	91.70743	92.28119	91.14895	91.69216
STRONTIUM	421.552	Radial	10601.37	0.1404999	0.1399353	0.1408929	0.1406717
SULFUR	182.034	Axial	1193.978	15.29034	15.33934	15.28802	15.24365
THALLIUM	190.856	Axial	1.068412	0.004191408	0.005080744	0.006345954	0.001147528
TIN	189.989	Axial	-1.58529	-0.005462218	-0.004631165	-0.004762994	-0.006992496
TITANIUM	334.941	Radial	46.05276	0.004246911	0.005006774	0.004146743	0.003587216
VANADIUM	292.402	Radial	-8.58909	-0.0004196279	-0.003025243	-0.00009858690	0.001864946
ZINC	206.200	Axial	11.48267	-0.01390334	-0.01372618	-0.01383834	-0.01414549

Sample ID: L1253445-10 DF: 1x Batch: WG1531468 Units: mg/l

Analyzed: 08/27/20 17:49 Sequence: 82

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10185.14	10176.46	10184.47	10194.50
YTTRIUM	360.073	Axial	230527.6	232735.7	228779.5	230067.7
YTTRIUM	360.073	Radial	29973.54	30043.85	30037.61	29839.17
INDIUM	230.606	Axial	2800.458	2801.187	2804.337	2795.851

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.4888671	0.009949384	0.01175670	0.003957982	0.01413347
IRON	259.940	Radial	825.6658	0.7471155	0.7399175	0.7458979	0.7555313
LEAD	220.353	Axial	3.249587	0.001589303	0.002298127	0.0004928177	0.001976964
ALUMINUM	308.215	Radial	8.660758	0.02475498	0.04028592	0.01958307	0.01439595
ANTIMONY	206.833	Axial	0.8622350	0.003724540	0.005224739	0.002720040	0.003228842
BARIUM	233.527	Axial	79.04234	0.02096073	0.02090448	0.02097455	0.02100317
BERYLLIUM	313.042	Radial	16.97538	0.00001039595	0.000007167196	-0.00005695698	0.00008097764
BORON	249.678	Radial	13.61571	0.009395372	0.004311680	0.01486970	0.009004740
CADMIUM	228.802	Axial	0.8312734	-0.00001496942	-0.0004204624	-0.0001645799	0.0005401341
CALCIUM	317.933	Radial	75950.66	34.69414	34.60651	34.65542	34.82047
CERIUM	535.353	Radial	-27.4717	0.07480852	0.04186852	0.1097660	0.07279103
CHROMIUM	267.716	Axial	15.69314	0.001377514	0.002084519	0.0006538845	0.001394138
COBALT	228.616	Axial	-0.2563889	0.00009771092	-0.00006654610	0.00003498386	0.0003246950
COPPER	324.754	Axial	137.3799	0.0006040771	0.0006360074	0.0004954395	0.0006807844
LANTHANUM	333.749	Radial	10.25255	0.003552518	0.004915826	0.0007619298	0.004979798
LITHIUM	670.784	Radial	1.368556	0.001876597	0.001128054	0.002860051	0.001641685
MAGNESIUM	279.079	Radial	918.8127	7.608954	7.617826	7.575268	7.633769
MANGANESE	257.610	Axial	8779.708	0.1360536	0.1362736	0.1363811	0.1355059
MOLYBDENUM	202.030	Axial	2.728785	0.001725736	0.001637273	0.002436922	0.001103012
NICKEL	231.604	Axial	1.427251	0.001494009	0.001303944	0.001039409	0.002138675
PHOSPHORUS	177.495	Axial	6.470697	0.03103193	0.03288609	0.02984114	0.03036856
POTASSIUM	766.490	Radial	363.5200	0.6371197	0.6096877	0.6547114	0.6469599
SELENIUM	196.090	Axial	1.016824	0.001994487	-0.0009611864	0.006634836	0.0003098096
SILICON	251.611	Axial	8091.051	2.728002	2.731839	2.724579	2.727588
SILVER	328.068	Axial	-1.78704	0.0001733594	0.0003688878	0.0002411839	-0.00008999357
SODIUM	818.326	Radial	1991.183	29.84595	29.54285	29.93633	30.05868
STRONTIUM	421.552	Radial	3950.014	0.05085840	0.05062823	0.05091129	0.05103569
SULFUR	182.034	Axial	337.8123	4.166250	4.156571	4.177080	4.165098
THALLIUM	190.856	Axial	1.063496	0.003710429	0.006567107	0.005808008	-0.001243828
TIN	189.989	Axial	-0.3754685	-0.001250403	-0.001944602	-0.002406780	0.0006001725
TITANIUM	334.941	Radial	29.13235	0.002072099	0.001773336	0.002698848	0.001744111
VANADIUM	292.402	Radial	-1.90317	0.003743513	0.002478170	0.004691287	0.004061081
ZINC	206.200	Axial	7.180625	-0.01554486	-0.01578730	-0.01548409	-0.01536320

Sample ID: L1253445-11 DF: 1x Batch: WG1531468 Units: mg/l

Analyzed: 08/27/20 17:52 Sequence: 83

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10011.95	10027.96	10007.67	10000.21
YTTRIUM	360.073	Axial	226665.0	227300.2	226625.9	226068.8
YTTRIUM	360.073	Radial	29957.91	30104.02	29778.96	29990.76
INDIUM	230.606	Axial	2706.060	2704.597	2708.656	2704.925

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.2450443	0.008557363	0.007742869	0.008195007	0.009734212
IRON	259.940	Radial	11949.09	10.89710	10.86367	10.92488	10.90275
LEAD	220.353	Axial	2.497713	0.0004983521	-0.0001897066	0.002596644	-0.0009118811
ALUMINUM	308.215	Radial	26.90395	0.09451400	0.1022399	0.1008087	0.08049342
ANTIMONY	206.833	Axial	0.7096188	0.003152799	0.002361788	0.002915566	0.004181043
BARIUM	233.527	Axial	181.4288	0.04826627	0.04812370	0.04816467	0.04851045
BERYLLIUM	313.042	Radial	27.91376	0.0001153061	0.0001261763	0.00008851893	0.0001312230
BORON	249.678	Radial	46.03221	0.05237276	0.05037871	0.05244565	0.05429393
CADMIUM	228.802	Axial	1.007254	0.00002948739	0.0001212436	0.0004279526	-0.0004607340
CALCIUM	373.690	Radial	115039.5	99.02128	98.74164	99.41725	98.90495
CERIUM	535.353	Radial	-6.21676	0.1236085	0.1133208	0.1535497	0.1039551
CHROMIUM	267.716	Axial	93.97733	0.01373670	0.01365944	0.01403801	0.01351266
COBALT	228.616	Axial	4.929683	0.001768476	0.001855214	0.002035954	0.001414259
COPPER	324.754	Axial	161.9447	0.002116879	0.002331191	0.002029086	0.001990361
LANTHANUM	333.749	Radial	10.28501	0.003564393	0.005311116	0.002957751	0.002424312
LITHIUM	670.784	Radial	35.94957	0.004956938	0.006023261	0.004472579	0.004374976
MAGNESIUM	279.079	Radial	3282.933	27.14323	26.86941	27.49092	27.06937
MANGANESE	257.610	Axial	27167.71	0.4289198	0.4279505	0.4290301	0.4297789
MOLYBDENUM	202.030	Axial	2.491209	0.001582704	0.001069454	0.001596913	0.002081746
NICKEL	231.604	Axial	5.559874	0.004069048	0.004196602	0.004512541	0.003498002
PHOSPHORUS	177.495	Axial	6.648158	0.03250631	0.03025311	0.03407545	0.03319038
POTASSIUM	766.490	Radial	861.3613	1.615112	1.569496	1.645019	1.630820
SELENIUM	196.090	Axial	1.117897	0.002917890	0.006930295	0.002867326	-0.001043952
SILICON	251.611	Axial	21410.81	7.380397	7.372833	7.394979	7.373381
SILVER	328.068	Axial	-10.6901	-0.0004468134	-0.0003726455	-0.0004605247	-0.0005072699
SODIUM	818.326	Radial	1980.509	29.70675	29.49176	29.76540	29.86308
STRONTIUM	421.552	Radial	7457.551	0.09663037	0.09625835	0.09681275	0.09682002
SULFUR	182.034	Axial	226.3779	2.836177	2.824828	2.843257	2.840445
THALLIUM	190.856	Axial	1.083228	0.004145375	0.005874741	0.005084557	0.001476825
TIN	189.989	Axial	-0.9291135	-0.003155079	-0.002164423	-0.002869565	-0.004431250
TITANIUM	334.941	Radial	69.02943	0.006923477	0.006108751	0.007294250	0.007367432
VANADIUM	292.402	Radial	-0.03843471	0.004871299	0.006711195	0.005448058	0.002454644
ZINC	206.200	Axial	39.59282	-0.004026799	-0.004203685	-0.003833450	-0.004043262

Sample ID: L1253445-12 DF: 1x Batch: WG1531468 Units: mg/l

Analyzed: 08/27/20 17:55 Sequence: 84

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9914.853	9903.518	9923.075	9917.965
YTTRIUM	360.073	Axial	223495.6	223524.8	224648.0	222314.2
YTTRIUM	360.073	Radial	29549.19	29471.04	29508.70	29667.84
INDIUM	230.606	Axial	2707.064	2687.808	2698.145	2735.241

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.5619136	0.003749366	0.005097858	0.001480843	0.004669397
IRON	259.940	Radial	86.25495	0.07390922	0.07099637	0.07882766	0.07190363
LEAD	220.353	Axial	3.303550	0.001865448	0.003478198	0.0001554345	0.001962711
ALUMINUM	308.215	Radial	15.32235	0.05106316	0.03269874	0.07442093	0.04606981
ANTIMONY	206.833	Axial	0.8229043	0.003656809	0.007197046	0.003815616	-0.00004223446
BARIUM	233.527	Axial	177.9506	0.04780921	0.04785055	0.04813201	0.04744507
BERYLLIUM	313.042	Radial	16.52375	0.00008307285	0.00006085442	0.00001285388	-0.00004878645
BORON	249.678	Radial	55.17028	0.06549473	0.06383228	0.06847147	0.06418046
CADMIUM	228.802	Axial	1.493362	0.0001465005	0.0002218703	0.0002805788	-0.00006294750
CALCIUM	373.690	Radial	94516.21	82.45626	82.54730	82.46172	82.35975
CERIUM	535.353	Radial	-14.6355	0.1042797	0.08909330	0.1149492	0.1087964
CHROMIUM	267.716	Axial	43.32407	0.005833754	0.006072034	0.005499752	0.005929476
COBALT	228.616	Axial	0.1846978	0.0002345080	0.00002034129	-0.00005813386	0.0007413164
COPPER	324.754	Axial	153.9211	0.001788591	0.001642158	0.001783556	0.001940057
LANTHANUM	333.749	Radial	8.511989	0.002760642	0.006697799	0.0008555613	0.0007285650
LITHIUM	670.784	Radial	89.17464	0.009814071	0.009208171	0.01090653	0.009327511
MAGNESIUM	279.079	Radial	2497.011	20.93567	21.14865	20.97215	20.68623
MANGANESE	257.610	Axial	16233.42	0.2586834	0.2596992	0.2576849	0.2586662
MOLYBDENUM	202.030	Axial	1.921380	0.001169152	0.001144599	0.001075979	0.001286877
NICKEL	231.604	Axial	6.860517	0.004866076	0.003776199	0.005614018	0.005208012
PHOSPHORUS	177.495	Axial	5.371535	0.02623239	0.02862245	0.02819094	0.02188378
POTASSIUM	766.490	Radial	2195.328	4.293829	4.289742	4.281246	4.310500
SELENIUM	196.090	Axial	0.5070699	-0.001820997	0.0008452348	-0.004427902	-0.001880324
SILICON	251.611	Axial	16410.59	5.707324	5.731937	5.684836	5.705200
SILVER	328.068	Axial	-5.13305	-0.00006444231	0.0002630176	0.00004143536	-0.0004977799
SODIUM	818.326	Radial	4660.212	69.32633	69.25753	69.48960	69.23186
STRONTIUM	421.552	Radial	12619.82	0.1662309	0.1660034	0.1662983	0.1663912
SULFUR	182.034	Axial	839.0241	10.64956	10.58797	10.58358	10.77713
THALLIUM	190.856	Axial	0.3506993	-0.001554065	-0.01184638	0.008669962	-0.001485781
TIN	189.989	Axial	-1.12758	-0.003812189	-0.002449633	-0.003732852	-0.005254083
TITANIUM	334.941	Radial	47.98196	0.004444341	0.004254017	0.004181562	0.004897446
VANADIUM	292.402	Radial	-5.07243	0.001783318	0.002728926	0.003100104	-0.0004790764
ZINC	206.200	Axial	7.004310	-0.01553965	-0.01555302	-0.01558719	-0.01547873

Sample ID: L1253445-13 DF: 1x Batch: WG1531468 Units: mg/l

Analyzed: 08/27/20 17:58 Sequence: 85

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9981.661	9965.402	9992.671	9986.911
YTTRIUM	360.073	Axial	227179.0	226142.7	227531.7	227862.6
YTTRIUM	360.073	Radial	29949.90	29929.04	30103.76	29816.89
INDIUM	230.606	Axial	2709.389	2707.133	2712.954	2708.081

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.2673278	0.005520513	0.007455958	0.007301775	0.001803807
IRON	259.940	Radial	11608.08	10.58878	10.57685	10.56181	10.62768
LEAD	220.353	Axial	4.112397	0.003230109	0.004214147	0.001616292	0.003859888
ALUMINUM	308.215	Radial	12.77994	0.04048452	0.05222197	0.05636447	0.01286713
ANTIMONY	206.833	Axial	0.2689946	0.001332623	0.006364972	-0.001251139	-0.001115963
BARIUM	233.527	Axial	190.4350	0.05078886	0.05072807	0.05099518	0.05064333
BERYLLIUM	313.042	Radial	21.58708	0.00005461746	0.00008227409	0.00006140010	0.00002017817
BORON	249.678	Radial	32.52525	0.03448051	0.03580958	0.03364804	0.03398392
CADMIUM	228.802	Axial	0.2703085	-0.0001421900	-0.0003644633	-0.0002923508	0.0002302440
CALCIUM	373.690	Radial	142301.6	122.5535	122.4629	122.2288	122.9688
CERIUM	535.353	Radial	14.29796	0.1707088	0.1820709	0.1295646	0.2004910
CHROMIUM	267.716	Axial	19.57092	0.002038848	0.002128481	0.002137271	0.001850791
COBALT	228.616	Axial	10.61591	0.003599557	0.003800788	0.003799272	0.003198612
COPPER	324.754	Axial	140.4259	0.0008877335	0.0008808127	0.001112316	0.0006700716
LANTHANUM	333.749	Radial	8.121419	0.002511219	0.005872904	-0.0001795962	0.001840349
LITHIUM	670.784	Radial	20.78752	0.003610451	0.003415939	0.003071104	0.004344309
MAGNESIUM	279.079	Radial	2686.765	22.22353	22.30067	22.11002	22.25991
MANGANESE	257.610	Axial	42189.13	0.6682630	0.6709152	0.6667341	0.6671398
MOLYBDENUM	202.030	Axial	1.246700	0.0006518874	0.0004749000	0.0009908260	0.0004899362
NICKEL	231.604	Axial	5.751844	0.004183166	0.004489930	0.004247079	0.003812488
PHOSPHORUS	177.495	Axial	5.067389	0.02448354	0.02613374	0.02283857	0.02447832
POTASSIUM	766.490	Radial	931.0574	1.752298	1.756740	1.758086	1.742067
SELENIUM	196.090	Axial	1.083712	0.002682141	0.005774407	0.001224970	0.001047046
SILICON	251.611	Axial	15038.95	5.193322	5.180488	5.186121	5.213356
SILVER	328.068	Axial	-5.02658	-0.00005478574	-0.0001567101	-0.0003258992	0.0003182521
SODIUM	818.326	Radial	1732.148	26.12738	26.01517	26.12186	26.24512
STRONTIUM	421.552	Radial	8566.195	0.1111187	0.1108599	0.1110470	0.1114492
SULFUR	182.034	Axial	77.13230	0.9608855	0.9532974	0.9662000	0.9631590
THALLIUM	190.856	Axial	0.1397055	-0.003181569	-0.006996367	0.001088920	-0.003637259
TIN	189.989	Axial	-1.60140	-0.005406896	-0.005283165	-0.006394370	-0.004543152
TITANIUM	334.941	Radial	58.22841	0.005610475	0.005460306	0.005927348	0.005443771
VANADIUM	292.402	Radial	-5.30396	0.001675491	0.003894309	0.002282123	-0.001149961
ZINC	206.200	Axial	13.98202	-0.01307866	-0.01304483	-0.01294264	-0.01324850

Sample ID: L1253445-14 DF: 1x Batch: WG1531468 Units: mg/l

Analyzed: 08/27/20 18:01 Sequence: 86

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9970.805	9981.521	9966.430	9964.464
YTTRIUM	360.073	Axial	225895.3	225725.3	225233.7	226726.9
YTTRIUM	360.073	Radial	29789.39	29904.43	29889.46	29574.29
INDIUM	230.606	Axial	2714.111	2718.701	2710.033	2713.598

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.4330364	0.009679174	0.01090764	0.006187755	0.01194213
IRON	259.940	Radial	12011.07	11.01554	11.01616	11.01624	11.01424
LEAD	220.353	Axial	3.324725	0.001885754	0.001191915	0.002380041	0.002085307
ALUMINUM	308.215	Radial	29.37242	0.1046132	0.09488350	0.1044289	0.1145273
ANTIMONY	206.833	Axial	1.177108	0.005109720	0.006612291	0.002692666	0.006024202
BARIUM	233.527	Axial	179.0043	0.04782227	0.04792595	0.04771878	0.04782208
BERYLLIUM	313.042	Radial	20.78263	0.00004798219	0.00009066455	0.00001429484	0.00003898718
BORON	249.678	Radial	42.73314	0.04830274	0.05152669	0.04922519	0.04415633
CADMIUM	228.802	Axial	1.561907	0.0001604711	0.0003004330	0.0004448772	-0.0002638970
CALCIUM	373.690	Radial	113982.3	98.66501	98.56097	98.62835	98.80573
CERIUM	535.353	Radial	-20.1262	0.09167334	0.04318763	0.1038765	0.1279559
CHROMIUM	267.716	Axial	38.01997	0.004957475	0.003989688	0.005411232	0.005471504
COBALT	228.616	Axial	4.995455	0.001784845	0.001968767	0.001600855	0.001784912
COPPER	324.754	Axial	155.4939	0.001784072	0.001823185	0.001882463	0.001646568
LANTHANUM	333.749	Radial	9.607647	0.003262791	0.002794852	0.003568454	0.003425069
LITHIUM	670.784	Radial	24.24114	0.003935193	0.002650809	0.003253382	0.005901389
MAGNESIUM	279.079	Radial	3281.353	27.28225	27.35903	27.23085	27.25688
MANGANESE	257.610	Axial	26787.10	0.4246524	0.4244119	0.4246106	0.4249348
MOLYBDENUM	202.030	Axial	2.080326	0.001280323	0.001877414	0.0008603745	0.001103182
NICKEL	231.604	Axial	5.400703	0.003960729	0.004716171	0.003718074	0.003447942
PHOSPHORUS	177.495	Axial	4.656672	0.02239454	0.02657641	0.02067310	0.01993410
POTASSIUM	766.490	Radial	835.2534	1.572905	1.606396	1.564435	1.547883
SELENIUM	196.090	Axial	1.051268	0.002434880	0.0006222808	0.001680335	0.005002025
SILICON	251.611	Axial	21269.76	7.361978	7.355377	7.368870	7.361688
SILVER	328.068	Axial	-12.9805	-0.0006093489	-0.0007169774	-0.0007011333	-0.0004099360
SODIUM	818.326	Radial	1937.965	29.25076	29.17552	29.22305	29.35371
STRONTIUM	421.552	Radial	7299.360	0.09510648	0.09480264	0.09498487	0.09553193
SULFUR	182.034	Axial	218.8216	2.752440	2.747475	2.755024	2.754821
THALLIUM	190.856	Axial	0.3654271	-0.001433386	-0.005155759	-0.005933279	0.006788880
TIN	189.989	Axial	-1.60853	-0.005420383	-0.007326383	-0.004338273	-0.004596491
TITANIUM	334.941	Radial	58.83820	0.005726288	0.005789964	0.004989639	0.006399261
VANADIUM	292.402	Radial	0.02714812	0.004922865	0.003343440	0.003524437	0.007900718
ZINC	206.200	Axial	44.90468	-0.002080723	-0.002203099	-0.002258099	-0.001780971

Sample ID: L1253668-01 DF: 1x Batch: WG1531468 Units: mg/l

Analyzed: 08/27/20 18:04 Sequence: 87

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9731.950	9742.634	9718.443	9734.773
YTTRIUM	360.073	Axial	220311.6	220169.6	219992.1	220773.2
YTTRIUM	360.073	Radial	29698.21	29840.63	29457.70	29796.29
INDIUM	230.606	Axial	2579.317	2574.700	2566.452	2596.797

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.3529980	0.004957490	0.006680170	0.006378215	0.001814086
BARIUM	233.527	Axial	250.5181	0.06834993	0.06834554	0.06819404	0.06851020
CADMIUM	228.802	Axial	8.781783	0.001902375	0.001883513	0.001971663	0.001851951
CHROMIUM	267.716	Axial	31.37116	0.004028390	0.003672751	0.004293835	0.004118582
LEAD	220.353	Axial	2.817713	0.001275278	0.0007402375	0.001272500	0.001813096
SELENIUM	196.090	Axial	1.046486	0.002601786	0.0005953961	0.008124441	-0.0009144796
SILVER	328.068	Axial	-6.20650	-0.0001476984	-0.0002157171	0.0003278934	-0.0005552715
ALUMINUM	308.215	Radial	51.57000	0.1905070	0.1799421	0.1939524	0.1976264
ANTIMONY	206.833	Axial	0.5875898	0.002717215	-0.0003098057	0.003156191	0.005305261
BERYLLIUM	313.042	Radial	126.4765	0.001072913	0.0009958238	0.001131001	0.001091914
BORON	249.678	Radial	73.87845	0.09011874	0.08997590	0.08615638	0.09422393
CALCIUM	373.690	Radial	113075.0	98.18004	98.05519	98.45819	98.02674
CERIUM	535.353	Radial	3.562912	0.1460619	0.1634727	0.1281419	0.1465712
COBALT	228.616	Axial	80.83505	0.02755180	0.02780001	0.02792923	0.02692616
COPPER	324.754	Axial	226.1047	0.006096404	0.005677614	0.005907176	0.006704422
IRON	259.940	Radial	126.0005	0.1100817	0.1115337	0.1083002	0.1104112
LANTHANUM	333.749	Radial	23.13351	0.009978020	0.005406374	0.01000918	0.01451851
LITHIUM	670.784	Radial	749.2597	0.06912092	0.06894925	0.06864496	0.06976857
MAGNESIUM	279.079	Radial	2878.667	24.01070	24.08929	24.06986	23.87294
MANGANESE	257.610	Axial	19474.73	0.3162316	0.3162640	0.3158227	0.3166083
MOLYBDENUM	202.030	Axial	1.042824	0.0005193219	0.0001419516	0.001102178	0.0003138361
NICKEL	231.604	Axial	61.49118	0.04039247	0.04093779	0.04035500	0.03988463
PHOSPHORUS	177.495	Axial	9.064788	0.04622645	0.04891419	0.04767628	0.04208887
POTASSIUM	766.490	Radial	2474.866	4.825555	4.832409	4.812670	4.831585
SILICON	251.611	Axial	71405.01	25.37430	25.40380	25.33574	25.38336
SODIUM	818.326	Radial	16145.41	236.2554	236.6983	236.2127	235.8553
STRONTIUM	421.552	Radial	92320.66	1.213934	1.211403	1.215424	1.214975
SULFUR	182.034	Axial	15905.07	205.9079	205.6297	206.1678	205.9261
THALLIUM	190.856	Axial	1.362464	0.006801624	-0.0004518623	0.004187688	0.01666905
TIN	189.989	Axial	-1.14376	-0.004055288	-0.0001539393	-0.004380194	-0.007631732
TITANIUM	334.941	Radial	56.62483	0.005476915	0.004711480	0.005945861	0.005773403
VANADIUM	292.402	Radial	1.796932	0.005994412	0.002508117	0.005615801	0.009859317
ZINC	206.200	Axial	236.9920	0.06827014	0.06910627	0.06812925	0.06757490

Sample ID: CCV Units: mg/l

Analyzed: 08/27/20 18:07 Sequence: 88 Standard ID: 20H10527

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10083.30	10074.21	10098.66	10077.03
YTTRIUM	360.073	Axial	228197.5	227199.5	228353.9	229039.2
YTTRIUM	360.073	Radial	29917.01	30025.95	29981.49	29743.58
INDIUM	230.606	Axial	2736.991	2729.508	2740.779	2740.685

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	2541.664	9.717383	9.631668	9.841329	9.679153
ANTIMONY	206.833	Axial	115.8299	0.4770581	0.4818102	0.4756018	0.4737622
ARSENIC	189.042	Axial	163.8129	0.9697003	0.9619915	0.9713835	0.9757259
BARIUM	233.527	Axial	1872.567	0.4899427	0.4897484	0.4893985	0.4906812
BERYLLIUM	313.042	Radial	20046.02	0.1926434	0.1929333	0.1921763	0.1928206
BORON	249.678	Radial	737.3210	0.9699031	0.9684514	0.9853423	0.9559156
CADMIUM	228.802	Axial	2147.429	0.4972225	0.4972964	0.4974319	0.4969391
CALCIUM	317.933	Radial	104233.8	47.76297	47.82046	47.68289	47.78557
CHROMIUM	267.716	Axial	6198.028	0.9672598	0.9682027	0.9662881	0.9672886
COBALT	228.616	Axial	3074.528	0.9812890	0.9815669	0.9824549	0.9798452
COPPER	324.754	Axial	17103.70	0.9496101	0.9577099	0.9452099	0.9459104
IRON	259.940	Radial	10182.71	9.298018	9.304056	9.275394	9.314604
LEAD	220.353	Axial	285.4050	0.4747969	0.4751334	0.4755924	0.4736648
LITHIUM	670.784	Radial	10590.53	0.9470064	0.9477214	0.9465163	0.9467817
MAGNESIUM	279.079	Radial	1131.483	9.382454	9.438351	9.309996	9.399017
MANGANESE	257.610	Axial	60485.35	0.9485356	0.9512900	0.9459398	0.9483771
MOLYBDENUM	202.030	Axial	334.5646	0.2487579	0.2478753	0.2486599	0.2497384
NICKEL	231.604	Axial	1588.761	0.9684433	0.9686477	0.9687309	0.9679512
PHOSPHORUS	177.495	Axial	194.7574	0.9894968	0.9930871	0.9862090	0.9891944
POTASSIUM	766.490	Radial	24031.63	47.17443	47.23531	47.13420	47.15376
SELENIUM	196.090	Axial	122.9300	0.9499760	0.9594916	0.9630505	0.9273859
SILICON	251.611	Axial	6578.334	2.236506	2.178202	2.228108	2.303209
SILVER	328.068	Axial	6847.303	0.4721254	0.4742406	0.4706717	0.4714638
SODIUM	818.326	Radial	3251.574	48.12193	48.11834	48.15598	48.09146
STRONTIUM	421.552	Radial	74044.80	0.9663657	0.9676328	0.9657053	0.9657589
SULFUR	182.034	Axial	375.5278	4.679733	4.675597	4.693572	4.670030
THALLIUM	190.856	Axial	124.9277	0.9543843	0.9550096	0.9468462	0.9612971
TIN	189.989	Axial	144.0452	0.4785456	0.4821868	0.4775179	0.4759321
TITANIUM	334.941	Radial	8083.242	0.9818841	0.9807280	0.9808582	0.9840661
VANADIUM	292.402	Radial	1586.282	0.9675887	0.9659659	0.9680306	0.9687694
ZINC	206.200	Axial	2801.556	0.9667500	0.9690128	0.9641785	0.9670587
CERIUM	535.353	Radial	-35.7805	0.05573227	0.09734064	0.05490219	0.01495399
LANTHANUM	333.749	Radial	8.714561	0.002789671	0.007440255	0.002231834	-0.001303075

Sample ID: CCB Units: mg/l

Analyzed: 08/27/20 18:10 Sequence: 89

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10461.05	10473.68	10461.75	10447.71
YTTRIUM	360.073	Axial	240175.0	240971.0	238982.2	240571.8
YTTRIUM	360.073	Radial	30398.23	30507.91	30238.26	30448.52
INDIUM	230.606	Axial	2920.183	2921.875	2922.995	2915.680

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	3.346487	0.004391606	-0.02410662	0.03454964	0.002731791
ANTIMONY	206.833	Axial	2.180234	0.008859157	0.009711706	0.01205526	0.004810501
ARSENIC	189.042	Axial	-1.45346	-0.001124643	-0.001154395	-0.004349978	0.002130443
BARIUM	233.527	Axial	-2.05276	-0.000009125217	-0.00003072104	-0.00007604556	0.00007939095
BERYLLIUM	313.042	Radial	16.33483	0.000001923534	0.00001881404	0.00001677947	-0.00002982291
BORON	249.678	Radial	7.931198	0.001715636	0.003546435	0.0008680060	0.0007324676
CADMIUM	228.802	Axial	2.798934	0.0004198066	0.0001185009	0.0005589330	0.0005819857
CALCIUM	317.933	Radial	128.5180	-0.1005287	-0.09920207	-0.09912601	-0.1032579
CERIUM	535.353	Radial	-53.5718	0.01488480	0.06745981	-0.02694570	0.004140281
CHROMIUM	267.716	Axial	7.907407	0.0001406292	0.0005962383	-0.0001254916	-0.00004885913
COBALT	228.616	Axial	-0.9183845	-0.00009714977	-0.00009816544	-0.0001267134	-0.00006657044
COPPER	324.754	Axial	123.7500	-0.0004250203	-0.0005905661	-0.0002946689	-0.0003898258
IRON	259.940	Radial	7.024871	0.0004383715	-0.001658416	0.002442460	0.0005310703
LANTHANUM	333.749	Radial	11.38973	0.004024718	0.006932289	0.002810071	0.002331795
LEAD	220.353	Axial	2.820316	0.0006959753	0.001707819	-0.0004599113	0.0008400179
LITHIUM	670.784	Radial	-29.0882	-0.0008011119	0.0003159300	-0.0009618869	-0.001757379
MAGNESIUM	279.079	Radial	-2.62171	0.001497300	-0.008205345	-0.006779276	0.01947652
MANGANESE	257.610	Axial	27.63889	0.0001216698	0.0001562169	0.0001075943	0.0001011981
MOLYBDENUM	202.030	Axial	0.5919926	0.0001395105	0.0001438774	-0.0001898873	0.0004645415
NICKEL	231.604	Axial	-1.29832	-0.00009744696	0.0007133437	-0.0009000988	-0.0001055858
PHOSPHORUS	177.495	Axial	0.8250731	0.002481824	0.001095883	0.0009901078	0.005359482
POTASSIUM	766.490	Radial	5.736913	-0.06529105	-0.04485029	-0.09695082	-0.05407204
SELENIUM	196.090	Axial	-0.2074524	-0.007393815	0.002803168	-0.01123568	-0.01374893
SILICON	251.611	Axial	64.76389	-0.0001944926	-0.0009557187	-0.001014873	0.001387114
SILVER	328.068	Axial	-2.11111	0.0001548185	0.0004471574	-0.0001753058	0.0001926039
SODIUM	589.592	Radial	198.7896	-0.01807547	-0.01494094	-0.01387330	-0.02541215
STRONTIUM	421.552	Radial	49.10940	0.0000007879347	-0.00002391819	0.00001590610	0.00001037590
SULFUR	182.034	Axial	1.047946	-0.0001266892	0.005313941	-0.003037493	-0.002656516
THALLIUM	190.856	Axial	0.6621932	0.0005034849	-0.003543400	0.001076748	0.003977107
TIN	189.989	Axial	0.7417923	0.002276861	0.0009463354	0.003662740	0.002221508
TITANIUM	334.941	Radial	15.81088	0.0004298078	0.00003563602	0.0009055334	0.0003482539
VANADIUM	292.402	Radial	-5.45943	0.001625908	0.001764076	-0.002173465	0.005287112
ZINC	206.200	Axial	6.247512	-0.01592678	-0.01593016	-0.01597661	-0.01587358

Sample ID: ICSEA Units: mg/l

Analyzed: 08/27/20 21:41 Sequence: 162 Standard ID: 20G22207

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9385.418	9385.519	9400.765	9369.970
YTTRIUM	360.073	Axial	217023.3	218144.7	216668.8	216256.3
YTTRIUM	360.073	Radial	31263.82	31133.47	31403.29	31254.69
INDIUM	230.606	Axial	2438.960	2439.821	2441.070	2435.989

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	130486.0	477.7909	477.6314	477.0433	478.6982
ANTIMONY	206.833	Axial	50.33168	0.2228153	0.2238495	0.2282666	0.2163299
ARSENIC	189.042	Axial	31.40250	0.2053540	0.2105673	0.2031834	0.2023113
BARIUM	233.527	Axial	769.5559	0.2166044	0.2183846	0.2150576	0.2163710
BERYLLIUM	313.042	Radial	22938.38	0.2109572	0.2106922	0.2105927	0.2115867
BORON	249.678	Radial	297.4826	0.3691667	0.3691120	0.3728522	0.3655359
CADMIUM	228.802	Axial	1877.492	0.4670335	0.4661973	0.4671654	0.4677377
CALCIUM	373.690	Radial	576485.0	476.0400	482.1864	470.6865	475.2470
CERIUM	535.353	Radial	240.1822	0.6893226	0.6796259	0.6956493	0.6926926
CHROMIUM	267.716	Axial	1245.732	0.2080416	0.2094180	0.2064480	0.2082586
COBALT	228.616	Axial	593.2957	0.2126393	0.2117538	0.2124931	0.2136708
COPPER	324.754	Axial	4102.704	0.2342741	0.2340370	0.2344374	0.2343479
IRON	271.441	Radial	16521.73	188.6900	188.8174	188.2176	189.0352
LANTHANUM	333.749	Radial	-15.0751	-0.008582332	-0.01136003	-0.005580654	-0.008806311
LEAD	220.353	Axial	207.0138	0.3857710	0.3828173	0.3912203	0.3832753
LITHIUM	670.784	Radial	53.46876	0.006323874	0.006906799	0.005543918	0.006520904
MAGNESIUM	279.079	Radial	59875.90	473.9803	474.6472	472.6959	474.5977
MANGANESE	257.610	Axial	12447.86	0.2094922	0.2104985	0.2091338	0.2088443
MOLYBDENUM	202.030	Axial	272.7024	0.2178035	0.2176409	0.2175998	0.2181697
NICKEL	231.604	Axial	610.6324	0.4180660	0.4171534	0.4179619	0.4190828
PHOSPHORUS	177.495	Axial	2.454771	0.01185339	0.009040998	0.01337946	0.01313971
POTASSIUM	766.490	Radial	-8.79306	-0.09287058	-0.09993100	-0.08572153	-0.09295920
SELENIUM	196.090	Axial	29.91825	0.2440740	0.2367383	0.2607272	0.2347566
SILICON	251.611	Axial	1186.103	0.4158021	0.4161013	0.4152190	0.4160860
SILVER	328.068	Axial	6511.206	0.4823273	0.4830967	0.4815174	0.4823677
SODIUM	589.592	Radial	217.6941	-0.01072876	-0.01894306	-0.002473250	-0.01076997
STRONTIUM	421.552	Radial	396.7542	0.004327945	0.004296072	0.004206193	0.004481570
SULFUR	182.034	Axial	5.047372	0.05500941	0.04917588	0.06293715	0.05291519
THALLIUM	190.856	Axial	21.97989	0.1850144	0.1888183	0.1806939	0.1855310
TIN	189.989	Axial	53.10867	0.1979730	0.2006159	0.1997552	0.1935478
TITANIUM	334.941	Radial	1810.419	0.2092924	0.2107588	0.2081317	0.2089868
VANADIUM	292.402	Radial	355.9662	0.2116209	0.2135597	0.2122400	0.2090630
ZINC	206.200	Axial	1036.144	0.3732608	0.3751871	0.3716718	0.3729234

Sample ID: ICSAB Units: mg/l

Analyzed: 08/27/20 21:44 Sequence: 163 Standard ID: 20G22211

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9343.308	9355.754	9335.691	9338.479
YTTRIUM	360.073	Axial	215455.6	215468.2	215514.6	215384.0
YTTRIUM	360.073	Radial	30970.19	30875.00	31030.81	31004.75
INDIUM	230.606	Axial	2430.232	2426.042	2433.631	2431.021

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	130151.0	481.0834	481.9146	479.9404	481.3952
ANTIMONY	206.833	Axial	113.5696	0.5047722	0.5178451	0.4986528	0.4978188
ARSENIC	189.042	Axial	74.91740	0.4822049	0.4767039	0.4821868	0.4877241
BARIUM	233.527	Axial	1718.988	0.4853851	0.4857592	0.4851856	0.4852105
BERYLLIUM	313.042	Radial	50870.43	0.4724645	0.4728461	0.4723557	0.4721918
BORON	249.678	Radial	712.2025	0.9044571	0.9025291	0.8974569	0.9133853
CADMIUM	228.802	Axial	4186.079	1.046251	1.044583	1.046772	1.047400
CALCIUM	373.690	Radial	571584.7	476.4572	479.5783	474.3347	475.4584
CERIUM	535.353	Radial	234.2666	0.6757407	0.6519980	0.7224609	0.6527631
CHROMIUM	267.716	Axial	2766.843	0.4654466	0.4629771	0.4662020	0.4671607
COBALT	228.616	Axial	1323.801	0.4759378	0.4761319	0.4767570	0.4749245
COPPER	324.754	Axial	8866.255	0.5182065	0.5197415	0.5152927	0.5195852
IRON	271.441	Radial	16500.39	190.2328	190.5210	190.0437	190.1338
LANTHANUM	333.749	Radial	-18.9374	-0.01047445	-0.009617273	-0.01000973	-0.01179634
LEAD	220.353	Axial	479.0367	0.9008370	0.8989367	0.9022234	0.9013510
LITHIUM	670.784	Radial	54.16626	0.006426555	0.007292309	0.006335362	0.005651996
MAGNESIUM	279.079	Radial	59568.20	476.0164	478.7393	474.7981	474.5118
MANGANESE	257.610	Axial	27331.15	0.4624031	0.4610615	0.4633676	0.4627800
MOLYBDENUM	202.030	Axial	606.8726	0.4872375	0.4860020	0.4867607	0.4889499
NICKEL	231.604	Axial	1359.414	0.9332614	0.9320603	0.9326499	0.9350739
PHOSPHORUS	177.495	Axial	2.301109	0.01107251	0.008100722	0.01668254	0.008434270
POTASSIUM	766.490	Radial	-10.9470	-0.09717159	-0.1412988	-0.05494408	-0.09527186
SELENIUM	196.090	Axial	60.55447	0.5022808	0.5112709	0.5052251	0.4903463
SILICON	251.611	Axial	2567.053	0.9293542	0.9263493	0.9259119	0.9358013
SILVER	328.068	Axial	14404.38	1.071474	1.069304	1.071018	1.074101
SODIUM	589.592	Radial	245.0490	0.005829304	0.005967901	0.002596289	0.008923721
STRONTIUM	421.552	Radial	404.8175	0.004476589	0.004533986	0.004539822	0.004355958
SULFUR	182.034	Axial	4.998706	0.05466828	0.04866923	0.06089386	0.05444174
THALLIUM	190.856	Axial	50.64013	0.4333908	0.4445925	0.4269922	0.4285877
TIN	189.989	Axial	121.5406	0.4547468	0.4585023	0.4491351	0.4566029
TITANIUM	334.941	Radial	4063.897	0.4761061	0.4772539	0.4757833	0.4752811
VANADIUM	292.402	Radial	785.9576	0.4656573	0.4638757	0.4670893	0.4660068
ZINC	206.200	Axial	2334.939	0.8677297	0.8673809	0.8675364	0.8682719

Sample ID: CCVLL Units: mg/l

Analyzed: 08/28/20 02:23 Sequence: 261 Standard ID: 20H06083

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10545.47	10546.73	10551.45	10538.24
YTTRIUM	360.073	Axial	249386.5	249388.7	249463.8	249307.1
YTTRIUM	360.073	Radial	32320.99	32230.27	32387.35	32345.34
INDIUM	230.606	Axial	3008.992	3013.853	3008.974	3004.149

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	57.84716	0.1966022	0.2018498	0.1840949	0.2038618
ANTIMONY	206.833	Axial	2.816147	0.01129444	0.01122389	0.01319545	0.009463972
ARSENIC	189.042	Axial	1.112176	0.01335363	0.01399645	0.01685823	0.009206218
BARIUM	233.527	Axial	16.70054	0.004681628	0.004656564	0.004899467	0.004488854
BERYLLIUM	313.042	Radial	218.3089	0.001790710	0.001764752	0.001784115	0.001823264
BORON	249.678	Radial	151.1293	0.1770261	0.1798647	0.1723999	0.1788137
CADMIUM	228.802	Axial	11.08688	0.002250237	0.002025478	0.002515164	0.002210070
CALCIUM	317.933	Radial	2327.190	0.8316586	0.8263112	0.8355793	0.8330853
CHROMIUM	267.716	Axial	75.50926	0.01022979	0.009961562	0.01049577	0.01023203
COBALT	228.616	Axial	30.57524	0.009052206	0.009132731	0.009206158	0.008817729
COPPER	324.754	Axial	288.0972	0.007742488	0.007782190	0.007845952	0.007599321
IRON	259.940	Radial	112.9383	0.08962996	0.08839732	0.08886062	0.09163193
LEAD	220.353	Axial	6.137681	0.005623959	0.007038788	0.003372417	0.006460671
LITHIUM	670.784	Radial	139.7018	0.01329565	0.01261435	0.01394620	0.01332640
MAGNESIUM	279.079	Radial	118.5648	0.9306831	0.9302200	0.8969299	0.9648995
MANGANESE	257.610	Axial	685.2083	0.009981478	0.01001403	0.01004690	0.009883502
MOLYBDENUM	202.030	Axial	7.249800	0.004874888	0.004756772	0.004512204	0.005355689
NICKEL	231.604	Axial	15.59825	0.009286467	0.009201186	0.009568188	0.009090027
PHOSPHORUS	177.495	Axial	19.61912	0.09389349	0.09535679	0.09267068	0.09365299
POTASSIUM	766.490	Radial	557.1642	0.9376753	0.9136427	0.9408232	0.9585599
SELENIUM	196.090	Axial	2.104911	0.009816527	0.01447500	0.007190291	0.007784292
SILICON	251.611	Axial	824.0694	0.2488587	0.2355084	0.2482415	0.2628263
SILVER	328.068	Axial	57.59722	0.004090139	0.004519650	0.003617811	0.004132954
SODIUM	589.592	Radial	1898.736	0.8911574	0.8762623	0.9023793	0.8948307
STRONTIUM	421.552	Radial	826.8462	0.009364663	0.009333711	0.009348033	0.009412245
SULFUR	182.034	Axial	73.13747	0.8611071	0.8669239	0.8554882	0.8609091
THALLIUM	190.856	Axial	2.028135	0.009903172	0.004544404	0.004859271	0.02030584
TIN	189.989	Axial	15.94188	0.04814475	0.04743544	0.04886153	0.04813728
TITANIUM	334.941	Radial	430.3851	0.04699713	0.04626833	0.04798785	0.04673522
VANADIUM	292.402	Radial	28.54200	0.02093121	0.02262035	0.02018481	0.01998846
ZINC	206.200	Axial	165.6265	0.03762537	0.03807506	0.03686243	0.03793860
CERIUM	535.353	Radial	-69.8287	-0.02243986	-0.01225567	-0.02132417	-0.03373975
LANTHANUM	333.749	Radial	9.716151	0.002935951	0.0002913054	0.004928772	0.003587775

3015 GW ICP DISS. Metals Prep Benchsheet

Workgroup: WG1531468

Prep Start Date/Time: 08/26/20 09:41 Analyst: HEB3524 Analyst Verified pH: HEB3524 Leachate Fluid Type: N/A Vessel ESC Lot ID: ESC44702
Pipette ID: F13412591 Carousel ID: 5 Microwave ID: MJ9747 Dig. Start Date/Time: 08/26/20 10:19:08 Prep End Date/Time: 08/26/20 11:37
SOP: ENV-SOP-MTJL-0219 Method: 3015 Filter Lot#: 00295511 pH Lot #: 10BDH0601 Syringe Lot#: 0003704 Pipette Tip Lot#: 204048

Nitric Acid: 20H23089 Amt. Used: 4 mL Exp. Date:02/23/21 Hydrochloric Acid: 20H19677 Amt. Used: 1 mL Exp. Date:08/19/21
High Spike: 20H17389 Amt. Used: 0.45 mL Exp. Date:02/17/21 High Spike 2: 20H17387 Amt. Used: 0.45 mL Exp. Date:02/17/21

Sample Number	Initial Sample Vol (mL)	Final Volume (mL)	Sample Description	Initial pH	Review Analyst	Review Date	Sample Comments
BLANK	45	50	NANO	~7	HEB3524	08/26/20 11:38:50	
LCS	45	50	NANO	~7	HEB3524	08/26/20 11:38:50	
MS(L1253445-05)	45	50	CLEAR	<2	HEB3524	08/26/20 11:38:50	
MSD(L1253445-05)	45	50	CLEAR	<2	HEB3524	08/26/20 11:38:50	
1. L1253445-01	45	50	CLEAR	<2	HEB3524	08/26/20 11:38:50	Diss. Metals = FF
2. L1253445-02	45	50	CLEAR	<2	HEB3524	08/26/20 11:38:50	Diss. Metals = FF
3. L1253445-03	45	50	CLEAR	<2	HEB3524	08/26/20 11:38:50	Diss. Metals = FF
4. L1253445-04	45	50	CLEAR	<2	HEB3524	08/26/20 11:38:50	Diss. Metals = FF
5. L1253445-05	45	50	CLEAR	<2	HEB3524	08/26/20 11:38:50	MS/MSD. Diss. Metals = FF
6. L1253445-06	45	50	CLEAR	<2	HEB3524	08/26/20 11:38:50	Diss. Metals = FF
7. L1253445-07	45	50	CLEAR	<2	HEB3524	08/26/20 11:38:50	Diss. Metals = FF
8. L1253445-08	45	50	CLEAR	<2	HEB3524	08/26/20 11:38:50	Diss. Metals = FF
9. L1253445-09	45	50	CLEAR	<2	HEB3524	08/26/20 11:38:50	Diss. Metals = FF
10. L1253445-10	45	50	CLEAR	<2	HEB3524	08/26/20 11:38:50	Diss. Metals = FF
11. L1253445-11	45	50	CLEAR	<2	HEB3524	08/26/20 11:38:50	Diss. Metals = FF
12. L1253445-12	45	50	CLEAR	<2	HEB3524	08/26/20 11:38:50	Diss. Metals = FF
13. L1253445-13	45	50	CLEAR	<2	HEB3524	08/26/20 11:38:50	Diss. Metals = FF
14. L1253445-14	45	50	CLEAR	<2	HEB3524	08/26/20 11:38:50	Diss. Metals = FF
15. L1253668-01	45	50	YELLOW TINT	~7	HEB3524	08/26/20 11:38:50	Relogged from L1247492-01 MS 8/22
16. L1253668-02	45	50	CLEAR	~7	HEB3524	08/26/20 11:38:50	Relogged from L1247492-02 MS 8/22
17. L1253668-03	45	50	CLEAR	~7	HEB3524	08/26/20 11:38:50	Relogged from L1247492-04 MS 8/22
18. L1253668-04	45	50	CLEAR	~7	HEB3524	08/26/20 11:38:50	Relogged from L1247492-07 MS 8/22
19. L1253668-05	45	50	YELLOW TINT	~7	HEB3524	08/26/20 11:38:50	Relogged from L1247492-09 MS 8/22
20. L1253668-06	45	50	CLEAR	~7	HEB3524	08/26/20 11:38:50	Relogged from L1247492-10 MS 8/22
Comments:							Reviewed By:HEB3524 on 08/26/20 11:38:50



8260B Volatile Organic Compounds (GC/MS)



Analytical Method: 8260B
Matrix: GW

SDG: L1253445

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	DMC-3 % Rec.	TOT Out
MW-02S	L1253445-01	VOCMS38	0824_14	110	98.8	105	0
MW-02I	L1253445-02	VOCMS38	0824_15	110	98.7	108	0
MW-03S	L1253445-03	VOCMS38	0824_16	109	98.7	108	0
MW-03I	L1253445-04	VOCMS38	0824_17	110	99.1	106	0
MW-04I	L1253445-05	VOCMS38	0824_18	110	98.4	110	0
MW-04D	L1253445-06	VOCMS38	0824_19	108	96.4	110	0
MW-5S	L1253445-07	VOCMS38	0824_20	108	97.2	110	0
MW-07S	L1253445-08	VOCMS38	0824_21	108	96.8	110	0
MW-07I	L1253445-09	VOCMS38	0824_22	109	96.5	110	0
MW-06SR	L1253445-10	VOCMS35	0824_44	106	105	92.8	0
MW-15S	L1253445-11	VOCMS35	0824_45	103	107	89.9	0
MW-15I	L1253445-12	VOCMS35	0824_46	104	105	92.1	0
MW-16S	L1253445-13	VOCMS35	0824_47	102	108	92.6	0
DUP-3	L1253445-14	VOCMS35	0824_48	103	108	94.1	0
TRIP BLANK	L1253445-15	VOCMS35	0824_34	104	106	90.8	0
MS	R3563649-3	VOCMS38	0824_26	106	99.1	113	0
MSD	R3563649-4	VOCMS38	0824_27	108	97.3	112	0
BLANK	R3563563-2	VOCMS35	0824_32	103	106	92.4	0
BLANK	R3563649-2	VOCMS38	0824_05	112	100	101	0
LCS	R3563563-1	VOCMS35	0824_30	99.9	112	94.5	0
LCS	R3563649-1	VOCMS38	0824_03	109	97.7	103	0

Parm Abbreviation

Parameter

QC LIMITS

DMC-1 Toluene-d8

80.0 - 120

DMC-2 4-Bromofluorobenzene

77.0 - 126

DMC-3 1,2-Dichloroethane-d4

70.0 - 130

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3A-OR

MATRIX SPIKE /
MATRIX SPIKE DUPLICATE RECOVERY
L1253445-01,02,03,04,05,06,07,08,09

SAMPLE NO.:

R3563649-3

R3563649-4

MS Sample / File ID: R3563649-3 / 0824_26
MSD Sample / File ID: R3563649-4 / 0824_27
OS Sample / File ID: L1253445-05 / 0824_18
Instrument ID: VOCMS38
Analytical Method: 8260B

SDG: L1253445
Analytical Batch: WG1531200
Matrix: GW

Analyte	Spike Amount mg/l	OS Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD %	RPD Limit %
Acetone	0.0250	ND	ND	ND	145	114	1	10.0 - 160	23.5	35
Acrolein	0.0250	ND	ND	ND	10.5	26.1	1	10.0 - 160	85.3*	39
Acrylonitrile	0.0250	ND	0.0321	0.0268	128	107	1	21.0 - 160	18.0	32
Benzene	0.00500	ND	0.00752	0.00759	150	152	1	17.0 - 158	0.927	27
Bromobenzene	0.00500	ND	0.00754	0.00760	151*	152*	1	30.0 - 149	0.793	28
Bromodichloromethane	0.00500	ND	0.00768	0.00745	154*	149	1	31.0 - 150	3.04	27
Bromoform	0.00500	ND	0.00769	0.00733	154*	147	1	29.0 - 150	4.79	29
Bromomethane	0.00500	ND	ND	0.00798	72.8	160	1	10.0 - 160	74.7*	38
n-Butylbenzene	0.00500	ND	0.00707	0.00710	141	142	1	31.0 - 150	0.423	30
sec-Butylbenzene	0.00500	ND	0.00733	0.00739	147	148	1	33.0 - 155	0.815	29
tert-Butylbenzene	0.00500	ND	0.00768	0.00768	154*	154*	1	34.0 - 153	0.000	28
Carbon tetrachloride	0.00500	ND	0.00764	0.00736	153	147	1	23.0 - 159	3.73	28
Chlorobenzene	0.00500	ND	0.00783	0.00812	157*	162*	1	33.0 - 152	3.64	27
Chlorodibromomethane	0.00500	ND	0.00813	0.00795	163*	159*	1	37.0 - 149	2.24	27
Chloroethane	0.00500	ND	0.00804	0.00822	161*	164*	1	10.0 - 160	2.21	30
Chloroform	0.00500	ND	0.00804	0.00791	161*	158*	1	29.0 - 154	1.63	28
Chloromethane	0.00500	ND	0.00827	0.00739	165*	148	1	10.0 - 160	11.2	29
2-Chlorotoluene	0.00500	ND	0.00772	0.00773	154*	155*	1	32.0 - 153	0.129	28
4-Chlorotoluene	0.00500	ND	0.00775	0.00767	155*	153*	1	32.0 - 150	1.04	28
1,2-Dibromo-3-Chloropropane	0.00500	ND	0.00664	0.00622	133	124	1	22.0 - 151	6.53	34
1,2-Dibromoethane	0.00500	ND	0.00761	0.00750	152*	150*	1	34.0 - 147	1.46	27
Dibromomethane	0.00500	ND	0.00786	0.00710	157*	142	1	30.0 - 151	10.2	27
1,2-Dichlorobenzene	0.00500	ND	0.00752	0.00760	150*	152*	1	34.0 - 149	1.06	28
1,3-Dichlorobenzene	0.00500	ND	0.00799	0.00740	160*	148*	1	36.0 - 146	7.67	27
1,4-Dichlorobenzene	0.00500	ND	0.00770	0.00750	154*	150*	1	35.0 - 142	2.63	27
Dichlorodifluoromethane	0.00500	ND	0.00827	0.00767	165*	153	1	10.0 - 160	7.53	29
1,1-Dichloroethane	0.00500	ND	0.00789	0.00769	158	154	1	25.0 - 158	2.57	27
1,2-Dichloroethane	0.00500	ND	0.00789	0.00791	158*	158*	1	29.0 - 151	0.253	27
1,1-Dichloroethene	0.00500	ND	0.00744	0.00703	149	141	1	11.0 - 160	5.67	29
cis-1,2-Dichloroethene	0.00500	ND	0.00764	0.00761	153	152	1	10.0 - 160	0.393	27
trans-1,2-Dichloroethene	0.00500	ND	0.00755	0.00741	151	148	1	17.0 - 153	1.87	27
1,2-Dichloropropane	0.00500	ND	0.00726	0.00709	145	142	1	30.0 - 156	2.37	27
1,1-Dichloropropene	0.00500	ND	0.00769	0.00778	154	156	1	25.0 - 158	1.16	27
1,3-Dichloropropane	0.00500	ND	0.00768	0.00757	154*	151*	1	38.0 - 147	1.44	27
cis-1,3-Dichloropropene	0.00500	ND	0.00706	0.00699	141	140	1	34.0 - 149	0.996	28
trans-1,3-Dichloropropene	0.00500	ND	0.00768	0.00748	154*	150*	1	32.0 - 149	2.64	28
2,2-Dichloropropane	0.00500	ND	0.00816	0.00798	163*	160*	1	24.0 - 152	2.23	29
Di-isopropyl ether	0.00500	ND	0.00742	0.00713	148	143	1	21.0 - 160	3.99	28
Ethylbenzene	0.00500	ND	0.00808	0.00803	162*	161*	1	30.0 - 155	0.621	27
Hexachloro-1,3-butadiene	0.00500	ND	0.00602	0.00626	120	125	1	20.0 - 154	3.91	34
Isopropylbenzene	0.00500	ND	0.00785	0.00781	157	156	1	28.0 - 157	0.511	27
p-Isopropyltoluene	0.00500	ND	0.00746	0.00726	149	145	1	30.0 - 154	2.72	29
2-Butanone (MEK)	0.0250	ND	0.0347	0.0292	139	117	1	10.0 - 160	17.2	32

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

ACCOUNT:

Patriot Engineering - Ft. Wayne

PROJECT:

16-1731-04E

SDG:

L1253445

DATE/TIME:

08/28/20 22:51

PAGE:

92 of 494

MATRIX SPIKE /
MATRIX SPIKE DUPLICATE RECOVERY
L1253445-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R3563649-3
R3563649-4

MS Sample / File ID: R3563649-3 / 0824_26
MSD Sample / File ID: R3563649-4 / 0824_27
OS Sample / File ID: L1253445-05 / 0824_18
Instrument ID: VOCMS38
Analytical Method: 8260B

SDG: L1253445
Analytical Batch: WG1531200
Matrix: GW

Analyte	Spike Amount mg/l	OS Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD %	RPD Limit %
Methylene Chloride	0.00500	ND	0.00741	0.00720	148*	144	1	23.0 - 144	2.87	28
4-Methyl-2-pentanone (MIBK)	0.0250	ND	0.0357	0.0330	143	132	1	29.0 - 160	7.86	29
Methyl tert-butyl ether	0.00500	ND	0.00750	0.00714	150	143	1	28.0 - 150	4.92	29
Naphthalene	0.00500	ND	0.00582	0.00608	116	122	1	12.0 - 156	4.37	35
n-Propylbenzene	0.00500	ND	0.00756	0.00757	151	151	1	31.0 - 154	0.132	28
Styrene	0.00500	ND	0.00775	0.00760	155	152	1	33.0 - 155	1.95	28
1,1,1,2-Tetrachloroethane	0.00500	ND	0.00791	0.00755	158*	151	1	36.0 - 151	4.66	29
1,1,2,2-Tetrachloroethane	0.00500	ND	0.00737	0.00680	147	136	1	33.0 - 150	8.05	28
Tetrachloroethene	0.00500	ND	0.00833	0.00841	167*	168*	1	10.0 - 160	0.956	27
Toluene	0.00500	ND	0.00795	0.00803	159*	161*	1	26.0 - 154	1.00	28
1,1,2-Trichlorotrifluoroethane	0.00500	ND	0.00788	0.00799	158	160	1	23.0 - 160	1.39	30
1,2,3-Trichlorobenzene	0.00500	ND	0.00609	0.00656	122	131	1	17.0 - 150	7.43	36
1,2,4-Trichlorobenzene	0.00500	ND	0.00628	0.00671	126	134	1	24.0 - 150	6.62	33
1,1,1-Trichloroethane	0.00500	ND	0.00835	0.00819	167*	164*	1	23.0 - 160	1.93	28
1,1,2-Trichloroethane	0.00500	ND	0.00782	0.00749	156*	150*	1	35.0 - 147	4.31	27
Trichloroethene	0.00500	ND	0.00756	0.00771	151	154	1	10.0 - 160	1.96	25
Trichlorofluoromethane	0.00500	ND	ND	ND	56.6	31.4	1	17.0 - 160	57.3*	31
1,2,3-Trichloropropane	0.00500	ND	0.00791	0.00726	158*	145	1	34.0 - 151	8.57	29
1,2,3-Trimethylbenzene	0.00500	ND	0.00758	0.00730	152*	146	1	32.0 - 149	3.76	28
1,2,4-Trimethylbenzene	0.00500	ND	0.00748	0.00743	150	149	1	26.0 - 154	0.671	27
1,3,5-Trimethylbenzene	0.00500	ND	0.00775	0.00762	155*	152	1	28.0 - 153	1.69	27
Vinyl chloride	0.00500	ND	0.00874	0.00854	175*	171*	1	10.0 - 160	2.31	27
Xylenes, Total	0.0150	ND	0.0235	0.0238	157*	159*	1	29.0 - 154	1.27	28

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY
L1253445-10,11,12,13,14,15

LCS Sample / File ID: R3563563-1 / 0824_30

LCSD Sample / File ID: _____

Instrument ID: VOCMS35

Analytical Method: 8260B

SDG: L1253445

Analytical Batch: WG1531305

Dilution Factor: 1

Matrix: GW

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD %	RPD Limit %
Acetone	0.0250	0.0174		69.6		19.0 - 160		
Acrolein	0.0250	0.0157		62.8		10.0 - 160		
Acrylonitrile	0.0250	0.0260		104		55.0 - 149		
Benzene	0.00500	0.00494		98.8		70.0 - 123		
Bromobenzene	0.00500	0.00463		92.6		73.0 - 121		
Bromodichloromethane	0.00500	0.00500		100		75.0 - 120		
Bromoform	0.00500	0.00571		114		68.0 - 132		
Bromomethane	0.00500	0.00343		68.6		10.0 - 160		
n-Butylbenzene	0.00500	0.00410		82.0		73.0 - 125		
sec-Butylbenzene	0.00500	0.00454		90.8		75.0 - 125		
tert-Butylbenzene	0.00500	0.00486		97.2		76.0 - 124		
Carbon tetrachloride	0.00500	0.00514		103		68.0 - 126		
Chlorobenzene	0.00500	0.00514		103		80.0 - 121		
Chlorodibromomethane	0.00500	0.00556		111		77.0 - 125		
Chloroethane	0.00500	0.00374		74.8		47.0 - 150		
Chloroform	0.00500	0.00505		101		73.0 - 120		
Chloromethane	0.00500	0.00530		106		41.0 - 142		
2-Chlorotoluene	0.00500	0.00475		95.0		76.0 - 123		
4-Chlorotoluene	0.00500	0.00471		94.2		75.0 - 122		
1,2-Dibromo-3-Chloropropane	0.00500	0.00343		68.6		58.0 - 134		
1,2-Dibromoethane	0.00500	0.00523		105		80.0 - 122		
Dibromomethane	0.00500	0.00497		99.4		80.0 - 120		
1,2-Dichlorobenzene	0.00500	0.00406		81.2		79.0 - 121		
1,3-Dichlorobenzene	0.00500	0.00482		96.4		79.0 - 120		
1,4-Dichlorobenzene	0.00500	0.00452		90.4		79.0 - 120		
Dichlorodifluoromethane	0.00500	0.00554		111		51.0 - 149		
1,1-Dichloroethane	0.00500	0.00498		99.6		70.0 - 126		
1,2-Dichloroethane	0.00500	0.00456		91.2		70.0 - 128		
1,1-Dichloroethene	0.00500	0.00566		113		71.0 - 124		
cis-1,2-Dichloroethene	0.00500	0.00542		108		73.0 - 120		
trans-1,2-Dichloroethene	0.00500	0.00544		109		73.0 - 120		
1,2-Dichloropropane	0.00500	0.00488		97.6		77.0 - 125		
1,1-Dichloropropene	0.00500	0.00510		102		74.0 - 126		
1,3-Dichloropropane	0.00500	0.00505		101		80.0 - 120		
cis-1,3-Dichloropropene	0.00500	0.00508		102		80.0 - 123		
trans-1,3-Dichloropropene	0.00500	0.00475		95.0		78.0 - 124		
2,2-Dichloropropane	0.00500	0.00486		97.2		58.0 - 130		
Di-isopropyl ether	0.00500	0.00460		92.0		58.0 - 138		
Ethylbenzene	0.00500	0.00507		101		79.0 - 123		
Hexachloro-1,3-butadiene	0.00500	0.00408		81.6		54.0 - 138		
Isopropylbenzene	0.00500	0.00478		95.6		76.0 - 127		
p-Isopropyltoluene	0.00500	0.00482		96.4		76.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.



LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

SAMPLE NO.:
R3563563-1

L1253445-10,11,12,13,14,15

LCS Sample / File ID: R3563563-1 / 0824_30

LCSD Sample / File ID: _____

Instrument ID: VOCMS35

Analytical Method: 8260B

SDG: L1253445

Analytical Batch: WG1531305

Dilution Factor: 1

Matrix: GW

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD %	RPD Limit %
2-Butanone (MEK)	0.0250	0.0222		88.8		44.0 - 160		
Methylene Chloride	0.00500	0.00473		94.6		67.0 - 120		
4-Methyl-2-pentanone (MIBK)	0.0250	0.0219		87.6		68.0 - 142		
Methyl tert-butyl ether	0.00500	0.00474		94.8		68.0 - 125		
Naphthalene	0.00500	0.00355		71.0		54.0 - 135		
n-Propylbenzene	0.00500	0.00466		93.2		77.0 - 124		
Styrene	0.00500	0.00509		102		73.0 - 130		
1,1,1,2-Tetrachloroethane	0.00500	0.00560		112		75.0 - 125		
1,1,2,2-Tetrachloroethane	0.00500	0.00443		88.6		65.0 - 130		
Tetrachloroethene	0.00500	0.00604		121		72.0 - 132		
Toluene	0.00500	0.00495		99.0		79.0 - 120		
1,1,2-Trichlorotrifluoroethane	0.00500	0.00483		96.6		69.0 - 132		
1,2,3-Trichlorobenzene	0.00500	0.00356		71.2		50.0 - 138		
1,2,4-Trichlorobenzene	0.00500	0.00366		73.2		57.0 - 137		
1,1,1-Trichloroethane	0.00500	0.00484		96.8		73.0 - 124		
1,1,2-Trichloroethane	0.00500	0.00501		100		80.0 - 120		
Trichloroethene	0.00500	0.00577		115		78.0 - 124		
Trichlorofluoromethane	0.00500	0.00477		95.4		59.0 - 147		
1,2,3-Trichloropropane	0.00500	0.00499		99.8		73.0 - 130		
1,2,3-Trimethylbenzene	0.00500	0.00436		87.2		77.0 - 120		
1,2,4-Trimethylbenzene	0.00500	0.00469		93.8		76.0 - 121		
1,3,5-Trimethylbenzene	0.00500	0.00480		96.0		76.0 - 122		
Vinyl chloride	0.00500	0.00409		81.8		67.0 - 131		
Xylenes, Total	0.0150	0.0149		99.3		79.0 - 123		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY



L1253445-01,02,03,04,05,06,07,08,09

LCS Sample / File ID: R3563649-1 / 0824_03

LCSD Sample / File ID: _____

Instrument ID: VOCMS38

Analytical Method: 8260B

SDG: L1253445

Analytical Batch: WG1531200

Dilution Factor: 1

Matrix: GW

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD %	RPD Limit %
Acetone	0.0250	0.0221		88.4		19.0 - 160		
Acrolein	0.0250	0.00911		36.4		10.0 - 160		
Acrylonitrile	0.0250	0.0218		87.2		55.0 - 149		
Benzene	0.00500	0.00507		101		70.0 - 123		
Bromobenzene	0.00500	0.00564		113		73.0 - 121		
Bromodichloromethane	0.00500	0.00526		105		75.0 - 120		
Bromoform	0.00500	0.00580		116		68.0 - 132		
Bromomethane	0.00500	0.00538		108		10.0 - 160		
n-Butylbenzene	0.00500	0.00481		96.2		73.0 - 125		
sec-Butylbenzene	0.00500	0.00529		106		75.0 - 125		
tert-Butylbenzene	0.00500	0.00556		111		76.0 - 124		
Carbon tetrachloride	0.00500	0.00449		89.8		68.0 - 126		
Chlorobenzene	0.00500	0.00572		114		80.0 - 121		
Chlorodibromomethane	0.00500	0.00560		112		77.0 - 125		
Chloroethane	0.00500	0.00551		110		47.0 - 150		
Chloroform	0.00500	0.00524		105		73.0 - 120		
Chloromethane	0.00500	0.00563		113		41.0 - 142		
2-Chlorotoluene	0.00500	0.00564		113		76.0 - 123		
4-Chlorotoluene	0.00500	0.00573		115		75.0 - 122		
1,2-Dibromo-3-Chloropropane	0.00500	0.00519		104		58.0 - 134		
1,2-Dibromoethane	0.00500	0.00553		111		80.0 - 122		
Dibromomethane	0.00500	0.00566		113		80.0 - 120		
1,2-Dichlorobenzene	0.00500	0.00562		112		79.0 - 121		
1,3-Dichlorobenzene	0.00500	0.00567		113		79.0 - 120		
1,4-Dichlorobenzene	0.00500	0.00566		113		79.0 - 120		
Dichlorodifluoromethane	0.00500	0.00503		101		51.0 - 149		
1,1-Dichloroethane	0.00500	0.00526		105		70.0 - 126		
1,2-Dichloroethane	0.00500	0.00532		106		70.0 - 128		
1,1-Dichloroethene	0.00500	0.00471		94.2		71.0 - 124		
cis-1,2-Dichloroethene	0.00500	0.00537		107		73.0 - 120		
trans-1,2-Dichloroethene	0.00500	0.00495		99.0		73.0 - 120		
1,2-Dichloropropane	0.00500	0.00523		105		77.0 - 125		
1,1-Dichloropropene	0.00500	0.00461		92.2		74.0 - 126		
1,3-Dichloropropane	0.00500	0.00561		112		80.0 - 120		
cis-1,3-Dichloropropene	0.00500	0.00489		97.8		80.0 - 123		
trans-1,3-Dichloropropene	0.00500	0.00545		109		78.0 - 124		
2,2-Dichloropropane	0.00500	0.00439		87.8		58.0 - 130		
Di-isopropyl ether	0.00500	0.00499		99.8		58.0 - 138		
Ethylbenzene	0.00500	0.00560		112		79.0 - 123		
Hexachloro-1,3-butadiene	0.00500	0.00440		88.0		54.0 - 138		
Isopropylbenzene	0.00500	0.00543		109		76.0 - 127		
p-Isopropyltoluene	0.00500	0.00525		105		76.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1253445-01,02,03,04,05,06,07,08,09



SAMPLE NO.:

R3563649-1

LCS Sample / File ID: R3563649-1 / 0824_03

LCSD Sample / File ID: _____

Instrument ID: VOCMS38

Analytical Method: 8260B

SDG: L1253445

Analytical Batch: WG1531200

Dilution Factor: 1

Matrix: GW

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD %	RPD Limit %
2-Butanone (MEK)	0.0250	0.0234		93.6		44.0 - 160		
Methylene Chloride	0.00500	0.00496		99.2		67.0 - 120		
4-Methyl-2-pentanone (MIBK)	0.0250	0.0269		108		68.0 - 142		
Methyl tert-butyl ether	0.00500	0.00546		109		68.0 - 125		
Naphthalene	0.00500	0.00480		96.0		54.0 - 135		
n-Propylbenzene	0.00500	0.00544		109		77.0 - 124		
Styrene	0.00500	0.00549		110		73.0 - 130		
1,1,1,2-Tetrachloroethane	0.00500	0.00560		112		75.0 - 125		
1,1,2,2-Tetrachloroethane	0.00500	0.00566		113		65.0 - 130		
Tetrachloroethene	0.00500	0.00571		114		72.0 - 132		
Toluene	0.00500	0.00552		110		79.0 - 120		
1,1,2-Trichlorotrifluoroethane	0.00500	0.00465		93.0		69.0 - 132		
1,2,3-Trichlorobenzene	0.00500	0.00469		93.8		50.0 - 138		
1,2,4-Trichlorobenzene	0.00500	0.00521		104		57.0 - 137		
1,1,1-Trichloroethane	0.00500	0.00516		103		73.0 - 124		
1,1,2-Trichloroethane	0.00500	0.00570		114		80.0 - 120		
Trichloroethene	0.00500	0.00527		105		78.0 - 124		
Trichlorofluoromethane	0.00500	0.00493		98.6		59.0 - 147		
1,2,3-Trichloropropane	0.00500	0.00568		114		73.0 - 130		
1,2,3-Trimethylbenzene	0.00500	0.00540		108		77.0 - 120		
1,2,4-Trimethylbenzene	0.00500	0.00550		110		76.0 - 121		
1,3,5-Trimethylbenzene	0.00500	0.00564		113		76.0 - 122		
Vinyl chloride	0.00500	0.00549		110		67.0 - 131		
Xylenes, Total	0.0150	0.0166		111		79.0 - 123		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Lab Sample ID:	R3563563-2	SDG:	L1253445
Lab File ID:	0824_32	Preparation Date/Time:	08/24/20 09:46
Instrument ID:	VOCMS35	Analysis Date/Time:	08/24/20 09:46
Analytical Batch:	WG1531305	Dilution Factor:	1
Analytical Method:	8260B	Matrix:	GW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis date/time
LCS	R3563563-1	VOCMS35	0824_30	08/24/20 09:06
TRIP BLANK	L1253445-15	VOCMS35	0824_34	08/24/20 11:39
MW-06SR	L1253445-10	VOCMS35	0824_44	08/24/20 15:57
MW-15S	L1253445-11	VOCMS35	0824_45	08/24/20 16:17
MW-15I	L1253445-12	VOCMS35	0824_46	08/24/20 16:37
MW-16S	L1253445-13	VOCMS35	0824_47	08/24/20 16:58
DUP-3	L1253445-14	VOCMS35	0824_48	08/24/20 17:18

Lab Sample ID: R3563649-2
Lab File ID: 0824_05
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Analytical Method: 8260B

SDG: L1253445
Preparation Date/Time: 08/24/20 06:44
Analysis Date/Time: 08/24/20 06:44
Dilution Factor: 1
Matrix: GW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis date/time
LCS	R3563649-1	VOCMS38	0824_03	08/24/20 06:05
MW-02S	L1253445-01	VOCMS38	0824_14	08/24/20 10:26
MW-02I	L1253445-02	VOCMS38	0824_15	08/24/20 10:45
MW-03S	L1253445-03	VOCMS38	0824_16	08/24/20 11:04
MW-03I	L1253445-04	VOCMS38	0824_17	08/24/20 11:24
MW-04I	L1253445-05	VOCMS38	0824_18	08/24/20 11:43
MW-04D	L1253445-06	VOCMS38	0824_19	08/24/20 12:02
MW-5S	L1253445-07	VOCMS38	0824_20	08/24/20 12:21
MW-07S	L1253445-08	VOCMS38	0824_21	08/24/20 12:41
MW-07I	L1253445-09	VOCMS38	0824_22	08/24/20 13:00
MS	R3563649-3	VOCMS38	0824_26	08/24/20 14:18
MSD	R3563649-4	VOCMS38	0824_27	08/24/20 14:37

GC/MS INSTRUMENT
PERFORMANCE CHECK

Lab File ID: 0805A_02
Instrument ID: VOCMS35
Analysis Date/Time: 08/05/20 21:27

SDG: L1253445
Analytical Method: 8260B

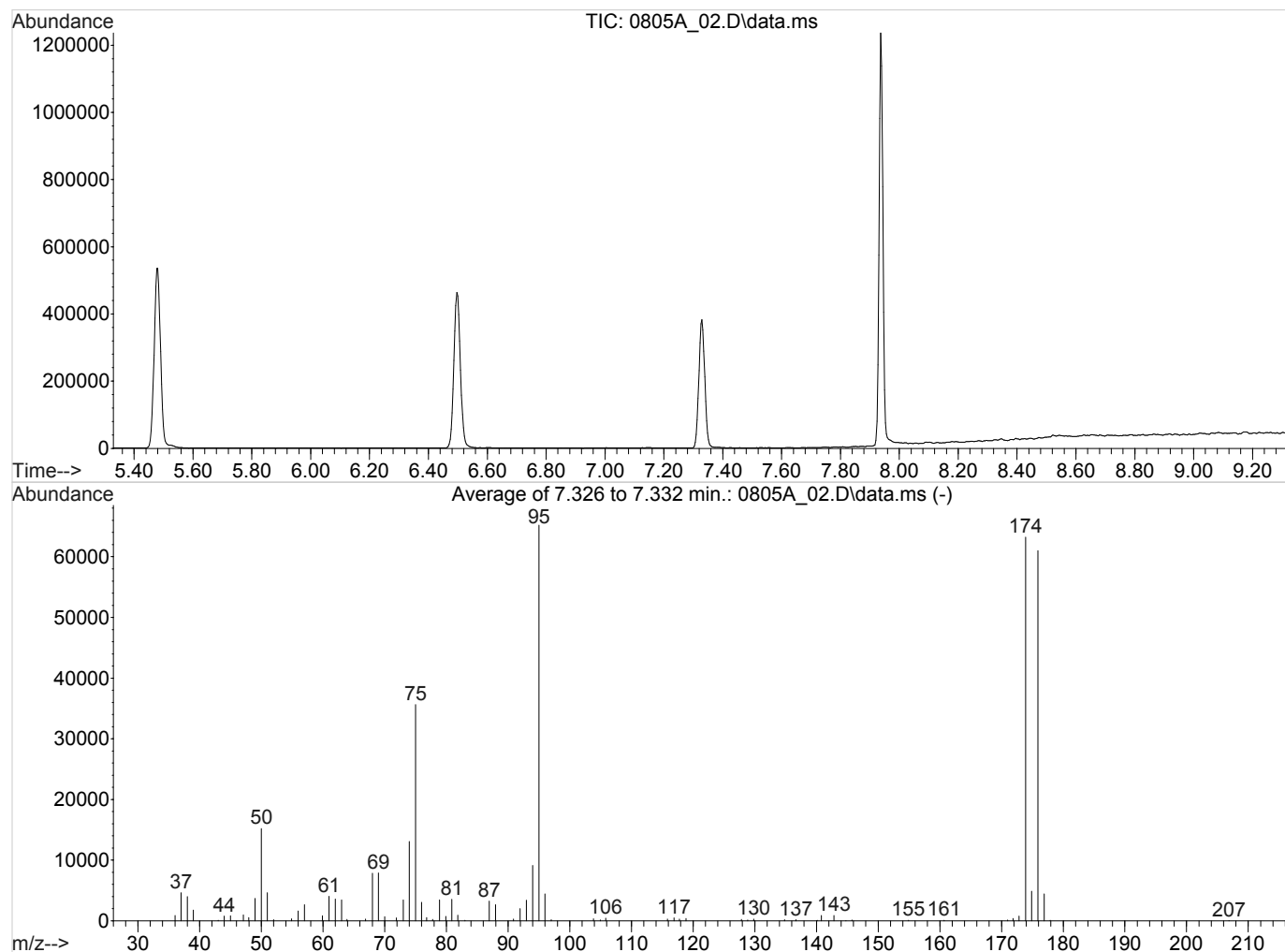
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	103
96	95	5	9	7
173	174	0	2	1
174	95	50	200	97
175	174	5	9	8
176	174	95	105	96
177	176	5	10	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-0.04	0.04	0805A_05	08/05/20 22:27
STD-0.1	0.1	0805A_06	08/05/20 22:47
STD-0.2	0.2	0805A_07	08/05/20 23:07
STD-0.5	0.5	0805A_08	08/05/20 23:27
STD-1	1	0805A_09	08/05/20 23:48
STD-2	2	0805A_10	08/06/20 00:07
STD-5.0	5.0	0805A_11	08/06/20 00:27
STD-25	25	0805A_12	08/06/20 00:48
STD-75	75	0805A_13	08/06/20 01:08
STD-100	100	0805A_14	08/06/20 01:28
STD-200	200	0805A_15	08/06/20 01:48
SSCV	VOCMS35080520a0805A_19508935	0805A_19	08/06/20 03:09

Data Path : C:\msdchem\1\data\080520a\
Data File : 0805A_02.D
Acq On : 5 Aug 2020 9:27 pm
Operator : 3527
Sample : INSTBLK
Misc : water
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINTLRH.P

Method : C:\msdchem\1\methods\V835H05T.M
Title : Volatile Organics by GC/MS
Last Update : Tue Aug 04 09:04:09 2020



AutoFind: Scans 1815, 1816, 1817; Background Corrected with Scan 1805

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.3	15177	PASS
75	95	30	60	54.7	35653	PASS
95	95	100	100	100.0	65232	PASS
96	95	5	9	6.8	4437	PASS
173	174	0.00	2	1.2	762	PASS
174	95	50	100	97.0	63245	PASS
175	174	5	9	7.7	4874	PASS
176	174	95	101	96.5	61035	PASS
177	176	5	9	7.2	4404	PASS

GC/MS INSTRUMENT
PERFORMANCE CHECK

Lab File ID: 0824_28T
Instrument ID: VOCMS35
Analysis Date/Time: 08/24/20 08:25

SDG: L1253445
Analytical Method: 8260B

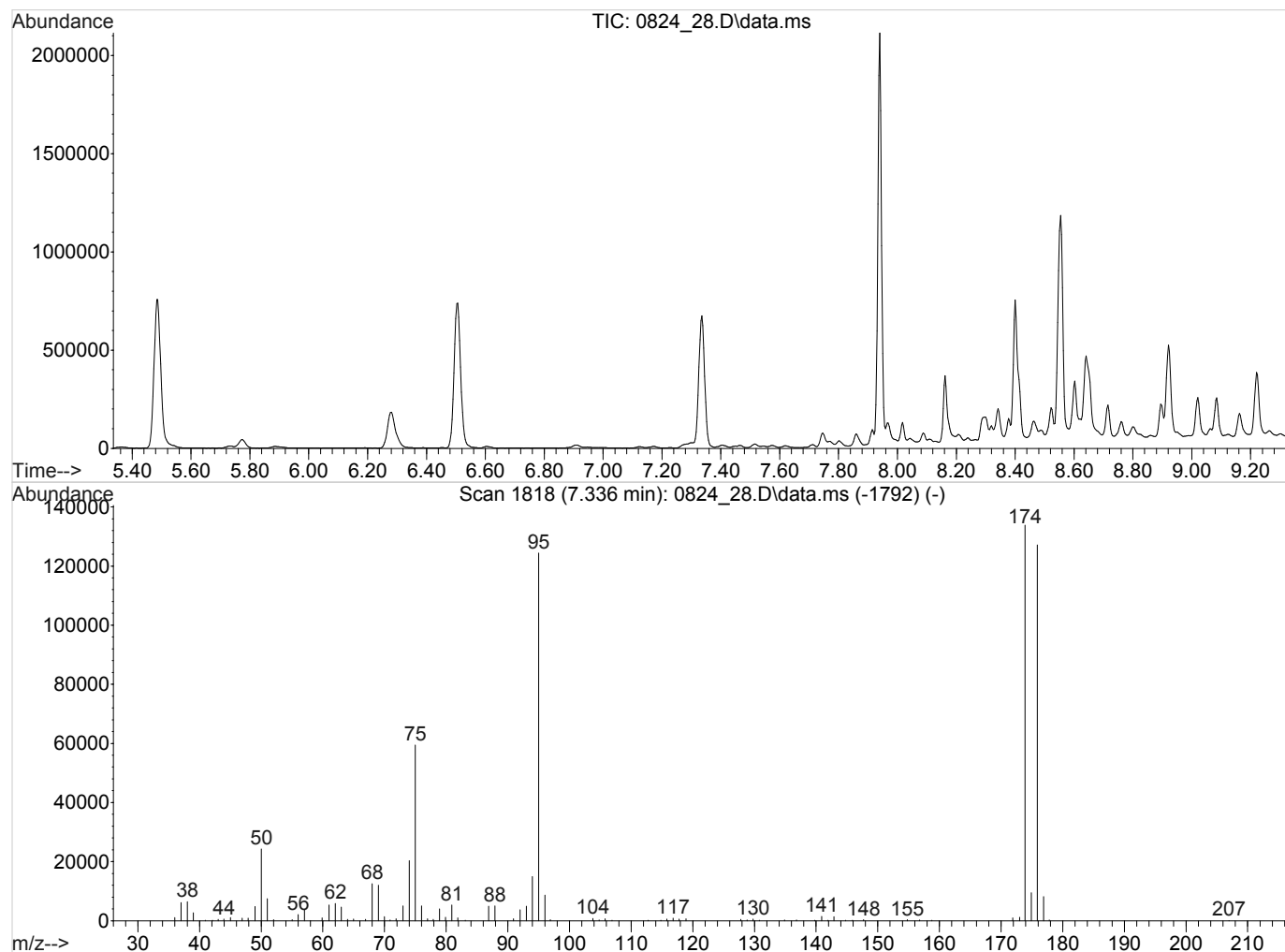
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	93
96	95	5	9	7
173	174	0	2	1
174	95	50	200	108
175	174	5	9	7
176	174	95	105	95
177	176	5	10	6

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	VOCMS350824200824_29508935	0824_29	08/24/20 08:45
LCS	R3563563-1	0824_30	08/24/20 09:06
RL	VOCMS350824200824_31508935	0824_31	08/24/20 09:26
BLANK	R3563563-2	0824_32	08/24/20 09:46
TRIP BLANK	L1253445-15	0824_34	08/24/20 11:39
MW-06SR	L1253445-10	0824_44	08/24/20 15:57
MW-15S	L1253445-11	0824_45	08/24/20 16:17
MW-15I	L1253445-12	0824_46	08/24/20 16:37
MW-16S	L1253445-13	0824_47	08/24/20 16:58
DUP-3	L1253445-14	0824_48	08/24/20 17:18

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_28.D
Acq On : 24 Aug 2020 8:25 am
Operator : 859
Sample : INSTBLK
Misc : water
ALS Vial : 28 Sample Multiplier: 1

Integration File: RTEINTLRH.P

Method : C:\msdchem\1\methods\V835H05T.M
Title : Volatile Organics by GC/MS
Last Update : Thu Aug 06 12:55:39 2020



Spectrum Information: Scan 1818

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	24264	PASS
75	95	30	60	47.8	59432	PASS
95	95	100	100	100.0	124368	PASS
96	95	5	9	7.0	8718	PASS
173	174	0.00	2	0.9	1198	PASS
174	95	50	100	107.7	133888	FAIL*
175	174	5	9	7.1	9532	PASS
176	174	95	101	95.0	127200	PASS
177	176	5	9	6.4	8146	PASS

GC/MS INSTRUMENT
PERFORMANCE CHECK

Lab File ID: 0805_04
Instrument ID: VOCMS38
Analysis Date/Time: 08/05/20 19:41

SDG: L1253445
Analytical Method: 8260B

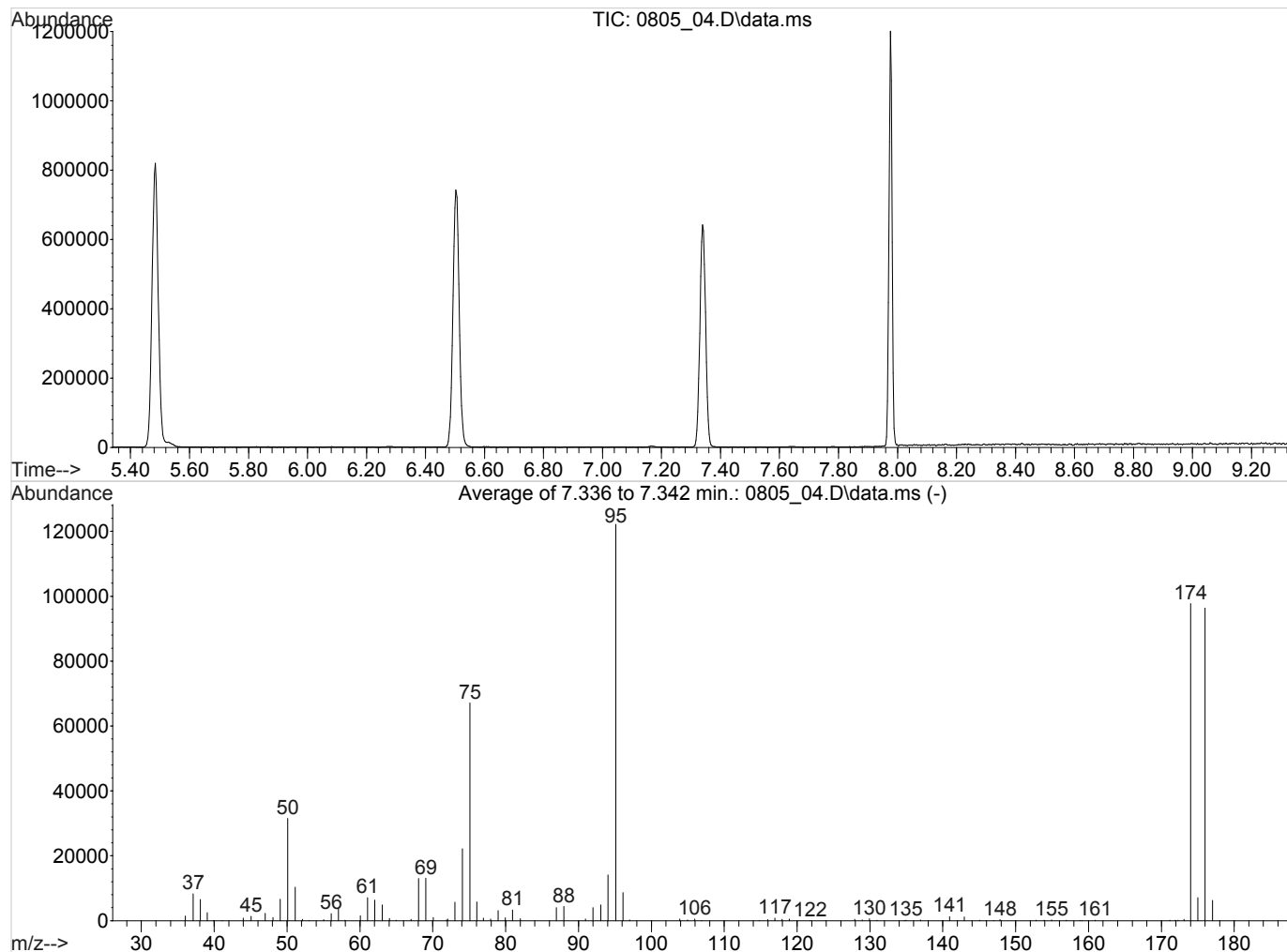
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	125
96	95	5	9	7
173	174	0	2	0
174	95	50	200	80
175	174	5	9	7
176	174	95	105	99
177	176	5	10	6

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-0.5	0.5	0805_10	08/05/20 21:37
STD-1	1	0805_11	08/05/20 21:56
STD-2	2	0805_12	08/05/20 22:15
STD-5.0	5.0	0805_13	08/05/20 22:34
STD-25	25	0805_14	08/05/20 22:54
STD-75	75	0805_15	08/05/20 23:13
STD-100	100	0805_16	08/05/20 23:33
STD-200	200	0805_17	08/05/20 23:52
STD-1A	1A	0805_24	08/06/20 02:08
STD-5A	5A	0805_25	08/06/20 02:27
STD-10A	10A	0805_26	08/06/20 02:47
STD-15A	15A	0805_27	08/06/20 03:06
STD-20A	20A	0805_28	08/06/20 03:26

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_04.D
 Acq On : 5 Aug 2020 7:41 pm
 Operator : 988
 Sample : INSTBLK
 Misc : water
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINTLRH.P

Method : C:\msdchem\1\methods\V838H05T.M
 Title : Volatile Organics by GC/MS
 Last Update : Thu Aug 06 10:36:18 2020



AutoFind: Scans 1788, 1789, 1790; Background Corrected with Scan 1777

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	25.8	31499	PASS
75	95	30	60	55.0	67163	PASS
95	95	100	100	100.0	122205	PASS
96	95	5	9	7.0	8615	PASS
173	174	0.00	2	0.4	431	PASS
174	95	50	100	79.9	97701	PASS
175	174	5	9	7.2	7078	PASS
176	174	95	101	98.7	96397	PASS
177	176	5	9	6.4	6212	PASS

GC/MS INSTRUMENT
PERFORMANCE CHECK

Lab File ID:	0805_31	SDG:	L1253445
Instrument ID:	VOCMS38	Analytical Method:	8260B
Analysis Date/Time:	08/06/20 11:09		

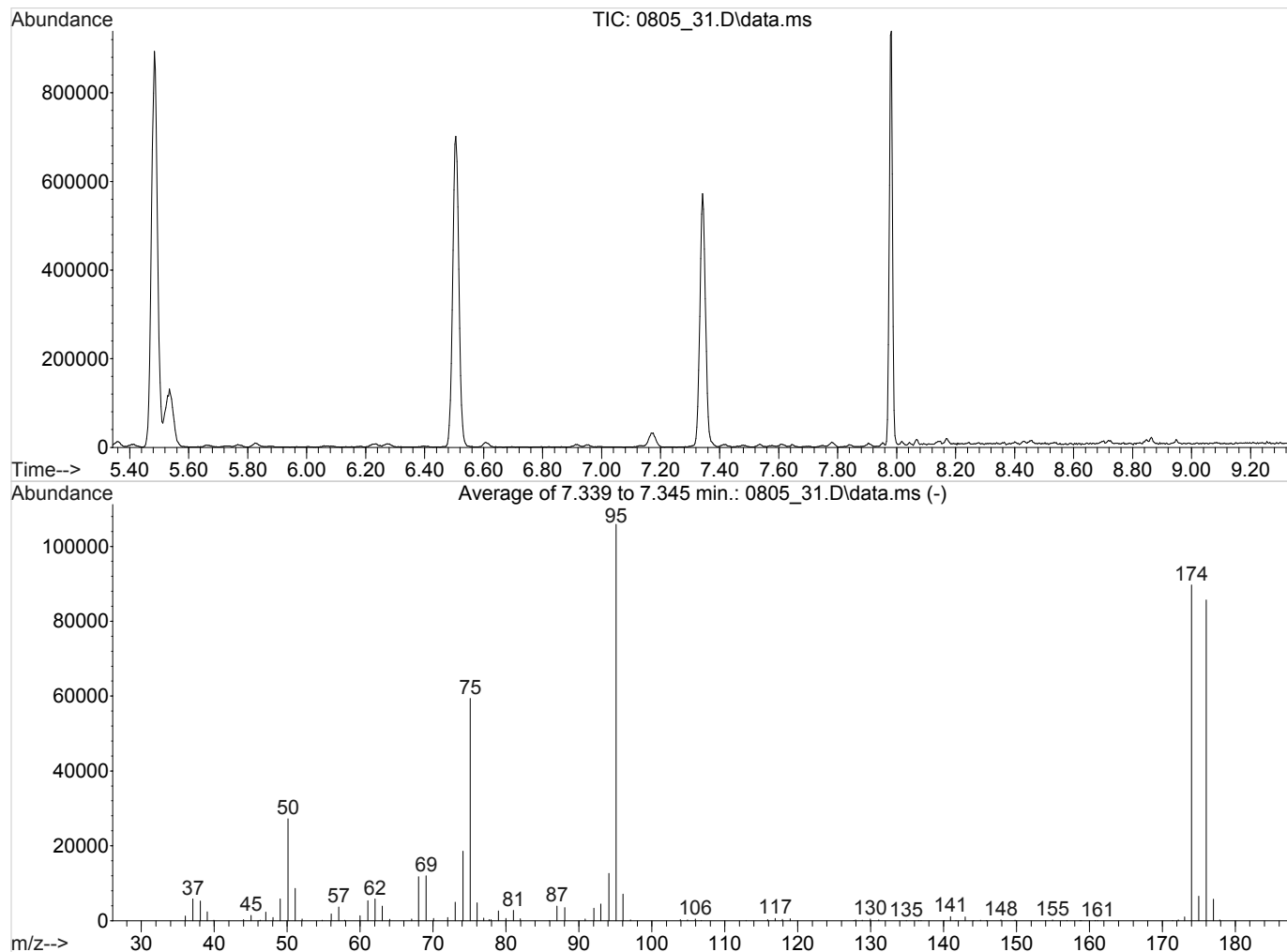
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	118
96	95	5	9	7
173	174	0	2	1
174	95	50	200	85
175	174	5	9	7
176	174	95	105	96
177	176	5	10	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
SSCV	VOCMS380805200805_34508937	0805_34	08/06/20 12:33

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_31.D
 Acq On : 6 Aug 2020 11:09 am
 Operator : 988
 Sample : INSTBLK
 Misc : water
 ALS Vial : 31 Sample Multiplier: 1

Integration File: RTEINTLRH.P

Method : C:\msdchem\1\methods\V838H05T.M
 Title : Volatile Organics by GC/MS
 Last Update : Thu Aug 06 11:22:11 2020



AutoFind: Scans 1789, 1790, 1791; Background Corrected with Scan 1779

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	25.7	27224	PASS
75	95	30	60	56.1	59387	PASS
95	95	100	100	100.0	105933	PASS
96	95	5	9	6.7	7115	PASS
173	174	0.00	2	1.2	1041	PASS
174	95	50	100	84.7	89717	PASS
175	174	5	9	7.3	6564	PASS
176	174	95	101	95.5	85680	PASS
177	176	5	9	6.7	5755	PASS

GC/MS INSTRUMENT
PERFORMANCE CHECK

Lab File ID: 0824_01T
Instrument ID: VOCMS38
Analysis Date/Time: 08/24/20 05:27

SDG: L1253445
Analytical Method: 8260B

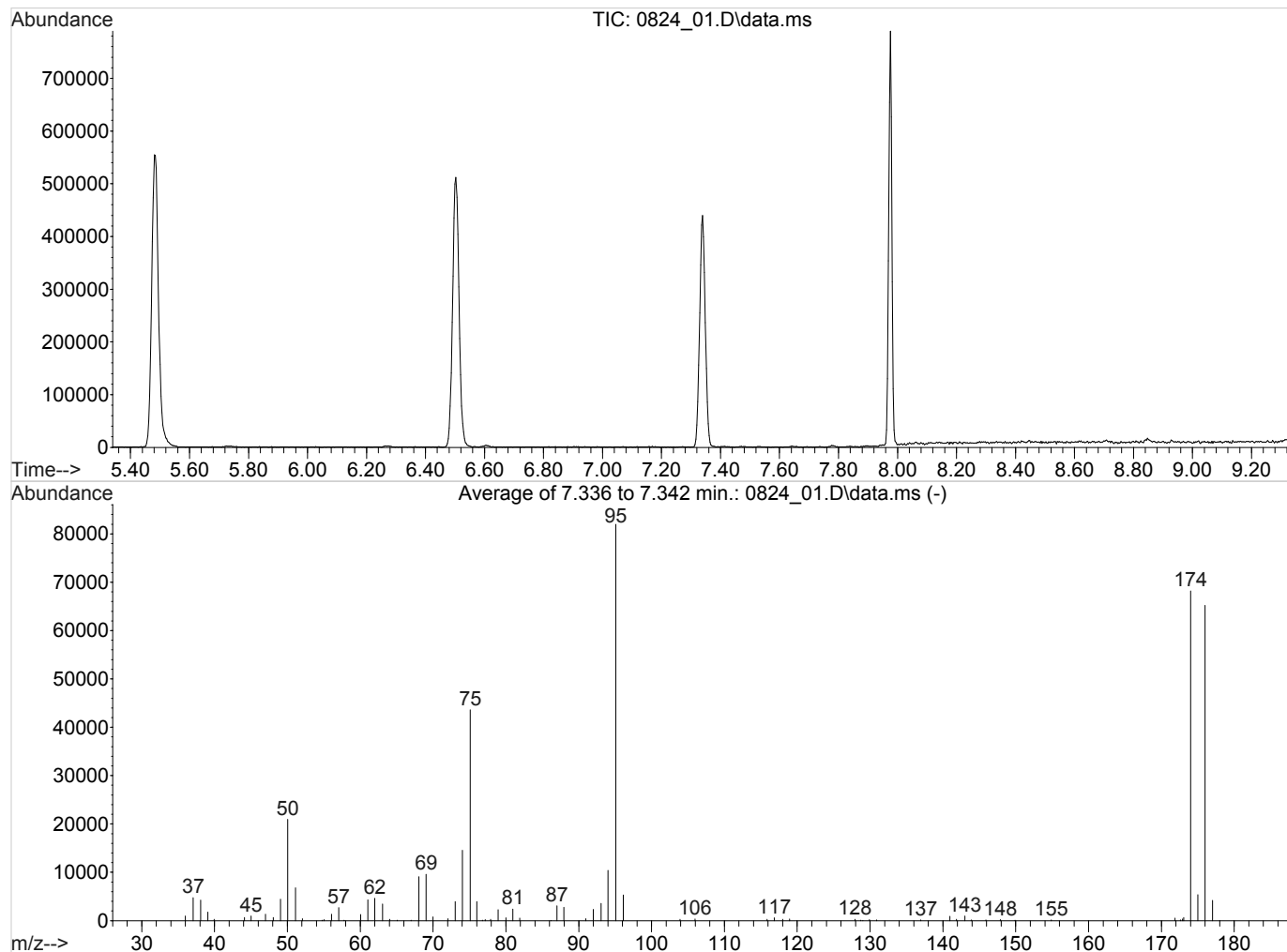
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	120
96	95	5	9	6
173	174	0	2	1
174	95	50	200	83
175	174	5	9	8
176	174	95	105	96
177	176	5	10	6

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	VOCMS380824200824_02508937	0824_02	08/24/20 05:46
LCS	R3563649-1	0824_03	08/24/20 06:05
RL	VOCMS380824200824_04508937	0824_04	08/24/20 06:25
BLANK	R3563649-2	0824_05	08/24/20 06:44
MW-02S	L1253445-01	0824_14	08/24/20 10:26
MW-02I	L1253445-02	0824_15	08/24/20 10:45
MW-03S	L1253445-03	0824_16	08/24/20 11:04
MW-03I	L1253445-04	0824_17	08/24/20 11:24
OS	L1253445-05	0824_18	08/24/20 11:43
MW-04I	L1253445-05	0824_18	08/24/20 11:43
MW-04D	L1253445-06	0824_19	08/24/20 12:02
MW-5S	L1253445-07	0824_20	08/24/20 12:21
MW-07S	L1253445-08	0824_21	08/24/20 12:41
MW-07I	L1253445-09	0824_22	08/24/20 13:00
MS	R3563649-3	0824_26	08/24/20 14:18
MSD	R3563649-4	0824_27	08/24/20 14:37

Data Path : C:\msdchem\1\data\082320a\
Data File : 0824_01.D
Acq On : 24 Aug 2020 5:27 am
Operator : 859
Sample : INSTBLK
Misc : water
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINTLRH.P

Method : C:\msdchem\1\methods\V838H05T.M
Title : Volatile Organics by GC/MS
Last Update : Thu Aug 06 11:22:11 2020



AutoFind: Scans 1788, 1789, 1790; Background Corrected with Scan 1776

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	25.6	20968	PASS
75	95	30	60	53.2	43587	PASS
95	95	100	100	100.0	82000	PASS
96	95	5	9	6.5	5329	PASS
173	174	0.00	2	1.0	663	PASS
174	95	50	100	83.2	68187	PASS
175	174	5	9	7.9	5367	PASS
176	174	95	101	95.7	65227	PASS
177	176	5	9	6.5	4211	PASS

INTERNAL STANDARD
AND RETENTION TIME

SDG:	L1253445	Analytical Method:	8260B
Instrument ID:	VOCMS35	Calibration Start Date:	07/30/20 23:48
Std File:	0824_29	Calibration End Date:	08/06/20 01:48
		Std Analysis Date:	08/24/20 08:45

Sample ID	File ID	1,4-DCB		8260-CB		8260-FB	
		Response	RT	Response	RT	Response	RT
STANDARD		329909	7.94	190950	6.50	458449	4.56
UPPER LIMIT		622868		365936		920490	
LOWER LIMIT		155717		91484		230123	
LCS R3563563-1 WG1531305 1x	0824_30	331397	7.94	192901	6.50	466821	4.56
BLANK R3563563-2 WG1531305 1x	0824_32	288281	7.94	180013	6.50	449320	4.56
L1253445-15 WG1531305 1x	0824_34	284904	7.94	180738	6.50	449706	4.56
L1253445-10 WG1531305 1x	0824_44	285309	7.94	173796	6.50	445339	4.56
L1253445-11 WG1531305 1x	0824_45	291150	7.94	170413	6.51	432038	4.56
L1253445-12 WG1531305 1x	0824_46	274398	7.94	172579	6.51	432104	4.56
L1253445-13 WG1531305 1x	0824_47	311676	7.94	178002	6.51	437447	4.56
L1253445-14 WG1531305 1x	0824_48	303263	7.94	177545	6.51	443965	4.56

1,4-DCB - 8260-1,4-DICHLOROBENZENE-D4 8260-CB - 8260-CHLOROBENZENE-D5
8260-FB - 8260-FLUOROBENZENE

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.



INTERNAL STANDARD AND RETENTION TIME

SDG:	L1253445	Analytical Method:	8260B
Instrument ID:	VOCMS38	Calibration Start Date:	08/05/20 21:37
Std File:	0824_02	Calibration End Date:	08/06/20 03:26
		Std Analysis Date:	08/24/20 05:46

Sample ID	File ID	1,4-DCB		8260-CB		8260-FB	
		Response	RT	Response	RT	Response	RT
STANDARD		88903	7.98	143488	6.50	322036	4.56
UPPER LIMIT		177806		286976		644072	
LOWER LIMIT		44452		71744		161018	
LCS R3563649-1 WG1531200 1x	0824_03	90000	7.98	145036	6.50	319463	4.56
BLANK R3563649-2 WG1531200 1x	0824_05	86767	7.98	139450	6.50	321963	4.56
L1253445-01 WG1531200 1x	0824_14	82762	7.98	135061	6.51	306177	4.56
L1253445-02 WG1531200 1x	0824_15	81955	7.98	134534	6.50	299258	4.56
L1253445-03 WG1531200 1x	0824_16	81437	7.98	134345	6.50	300556	4.56
L1253445-04 WG1531200 1x	0824_17	83807	7.98	132974	6.50	299859	4.56
L1253445-05 WG1531200 1x	0824_18	83205	7.98	132500	6.51	297147	4.56
OS L1253445-05 WG1531200 1x	0824_18	83205	7.98	132500	6.51	297147	4.56
L1253445-06 WG1531200 1x	0824_19	81632	7.98	133860	6.50	293944	4.56
L1253445-07 WG1531200 1x	0824_20	79732	7.98	132984	6.50	291813	4.56
L1253445-08 WG1531200 1x	0824_21	81281	7.98	131953	6.50	292724	4.56
L1253445-09 WG1531200 1x	0824_22	77725	7.98	129856	6.51	286906	4.56
MS R3563649-3 WG1531200 1x	0824_26	84748	7.98	133815	6.50	293284	4.56
MSD R3563649-4 WG1531200 1x	0824_27	84381	7.98	131494	6.51	288846	4.56

1,4-DCB - 8260-1,4-DICHLOROBENZENE-D4 8260-CB - 8260-CHLOROBENZENE-D5
8260-FB - 8260-FLUOROBENZENE

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-02S

Lab Sample ID: L1253445-01
Client Sample ID: MW-02S
Lab File ID: 0824_14
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 15:27
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 10:26
Analysis Date/Time: 08/24/20 10:26
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

Lab Sample ID:	L1253445-01	SDG:	L1253445
Client Sample ID:	MW-02S	Collected Date/Time:	08/18/20 15:27
Lab File ID:	0824_14	Received Date/Time:	08/21/20 09:30
Instrument ID:	VOCMS38	Preparation Date/Time:	08/24/20 10:26
Analytical Batch:	WG1531200	Analysis Date/Time:	08/24/20 10:26
Dilution Factor:	1	Prep Method:	8260B
Analytical Method:	8260B	Sample Vol Used:	5 mL
Matrix:	GW	Initial Wt/Vol:	
Total Solids (%):		Final Wt/Vol:	5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_14.D
 Acq On : 24 Aug 2020 10:26 am
 Operator : 859
 Sample : L1253445-01 1x WG1531200
 Misc : water
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS38

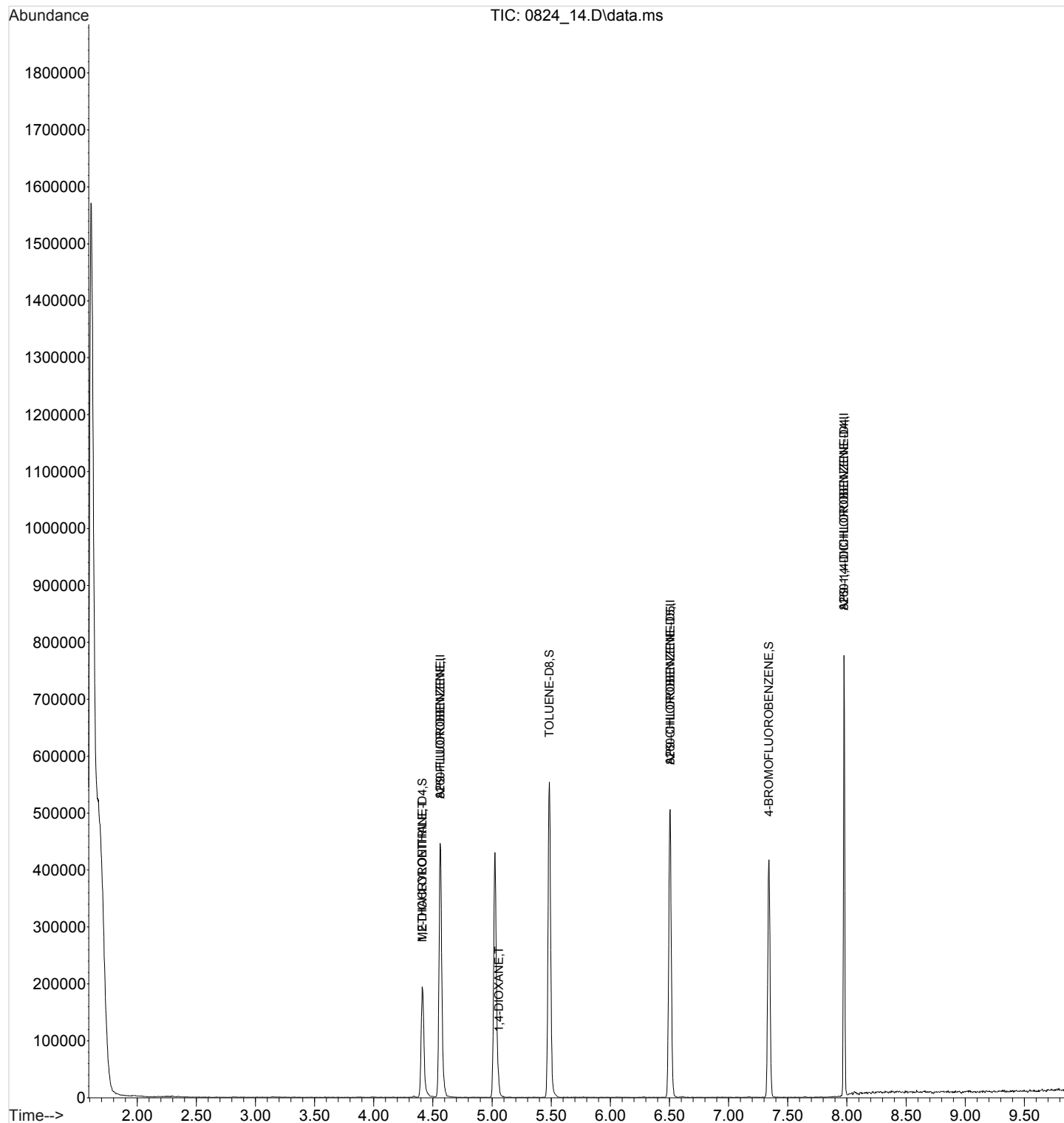
Quant Time: Aug 25 08:19:16 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

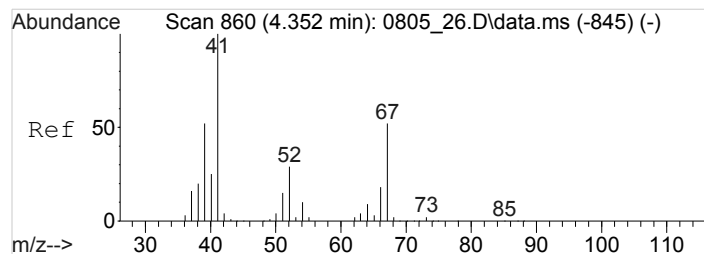
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) 8260-FLUOROBENZENE	4.561	96	306177	16.0000000	ppb	0.00	
59) 8260-CHLOROBENZENE-D5	6.506	82	135061	16.0000000	ppb	0.00	
81) 8260-1,4-DICHLOROBENZE...	7.976	152	82762	16.0000000	ppb	0.00	
109) AP9-FLUOROBENZENE	4.561	96	306177	16.0000000	ppb	0.00	
123) AP9-CHLOROBENZENE-D5	6.506	82	135061	16.0000000	ppb	0.00	
127) AP9-1,4-DICHLOROBENZEN...	7.976	152	82762	16.0000000	ppb	0.00	
System Monitoring Compounds							
48) 1,2-DICHLOROETHANE-D4	4.410	65	126765	16.7952371	ppb	0.00	
Spiked Amount 16.000			Recovery	= 104.97%			
61) TOLUENE-D8	5.484	98	300801	17.5918589	ppb	0.00	
Spiked Amount 16.000	Range	90 - 115	Recovery	= 109.95%			
80) 4-BROMOFLUOROBENZENE	7.339	95	110885	15.8030762	ppb	0.00	
Spiked Amount 16.000	Range	80 - 120	Recovery	= 98.77%			
Target Compounds						Qvalue	
116) METHACRYLONITRILE	4.410	67	63461	15.4128060	ppb #	1	
121) 1,4-DIOXANE	5.056	88	175	5.6821828	ppb #	26	

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

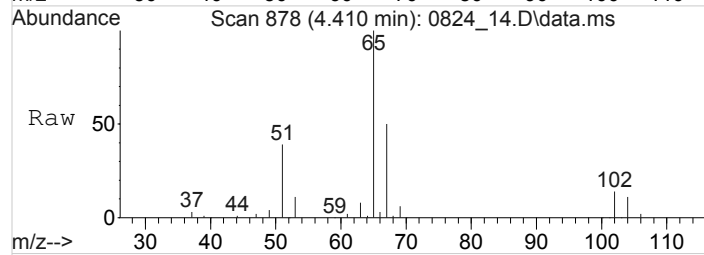
Data Path : C:\msdchem\1\data\082420\
Data File : 0824_14.D
Acq On : 24 Aug 2020 10:26 am
Operator : 859
Sample : L1253445-01 1x WG1531200
Misc : water
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS38

Quant Time: Aug 25 08:19:16 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration

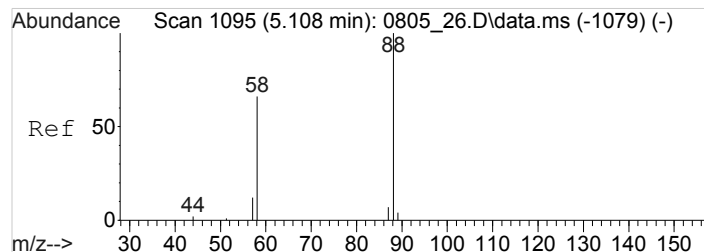
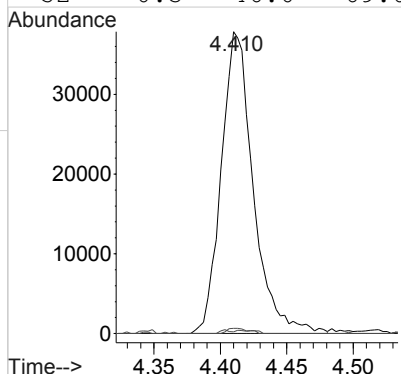
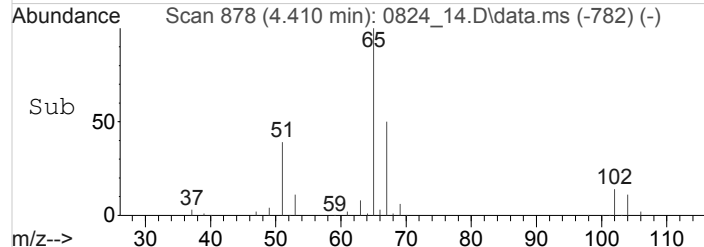




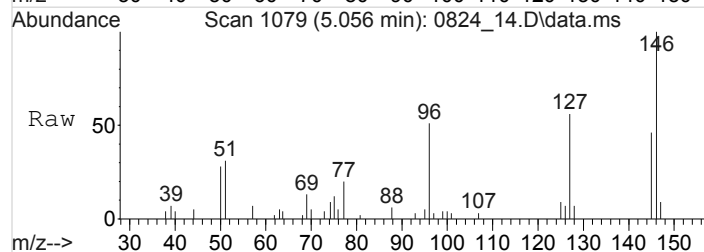
#116
 METHACRYLONITRILE
 Concen: 15.4128060 ppb
 RT: 4.410 min Scan# 878
 Delta R.T. 0.058 min
 Lab File: 0824_14.D
 Acq: 24 Aug 2020 10:26 am



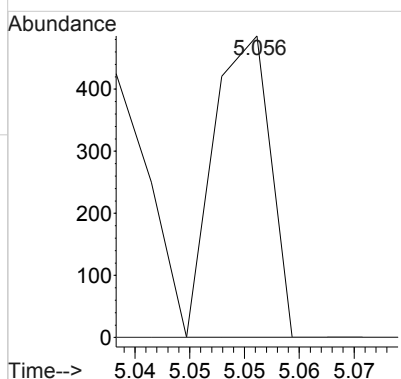
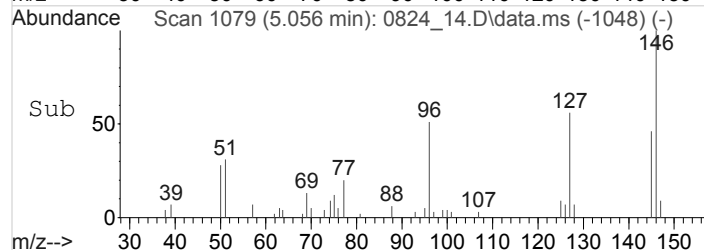
Tgt Ion: 67 Resp: 63461
 Ion Ratio Lower Upper
 67 100
 41 0.0 190.2 285.4#
 39 1.2 94.1 141.1#
 52 0.3 46.0 69.0#



#121
 1,4-DIOXANE
 Concen: 5.6821828 ppb
 RT: 5.056 min Scan# 1079
 Delta R.T. -0.051 min
 Lab File: 0824_14.D
 Acq: 24 Aug 2020 10:26 am



Tgt Ion: 88 Resp: 175
 Ion Ratio Lower Upper
 88 100
 58 0.0 51.8 77.8#
 43 0.0 10.7 16.1#



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253445-02
Client Sample ID: MW-021
Lab File ID: 0824_15
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 16:07
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 10:45
Analysis Date/Time: 08/24/20 10:45
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

Lab Sample ID:

Client Sample ID:

Lab File ID:

Instrument ID:

Analytical Batch:

Dilution Factor:

Analytical Method:

Matrix:

Total Solids (%):

L1253445-02

MW-02I

0824_15

VOCMS38

WG1531200

1

8260B

GW

SDG:

Collected Date/Time:

Received Date/Time:

Preparation Date/Time:

Analysis Date/Time:

Prep Method:

Sample Vol Used:

Initial Wt/Vol:

Final Wt/Vol:

L1253445

08/18/20 16:07

08/21/20 09:30

08/24/20 10:45

08/24/20 10:45

8260B

5 mL

5 mL

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			mg/l		mg/l	mg/l
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_15.D
 Acq On : 24 Aug 2020 10:45 am
 Operator : 859
 Sample : L1253445-02 1x WG1531200
 Misc : water
 ALS Vial : 15 Sample Multiplier: 1
 InstName : VOCMS38

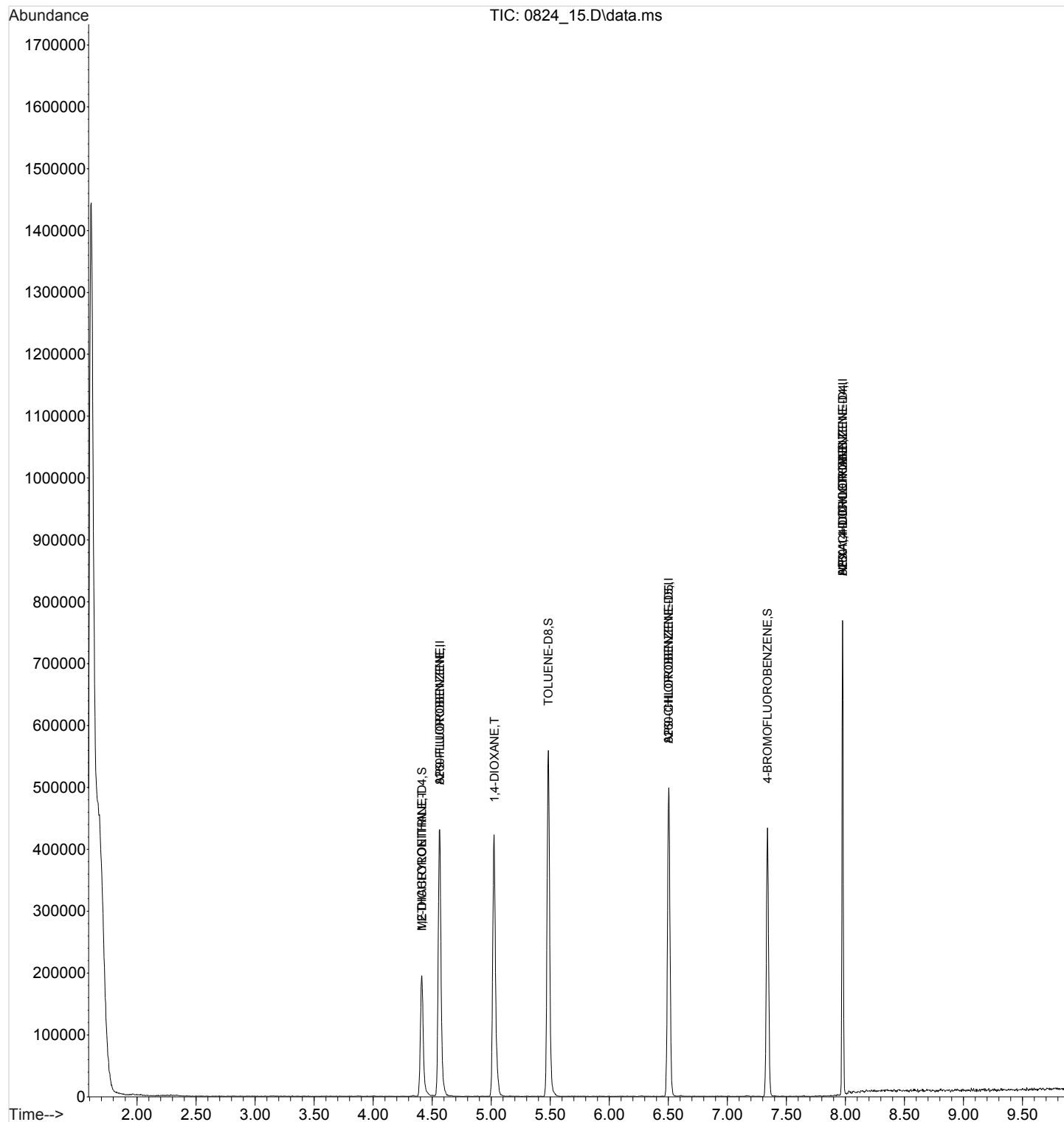
Quant Time: Aug 25 08:19:21 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

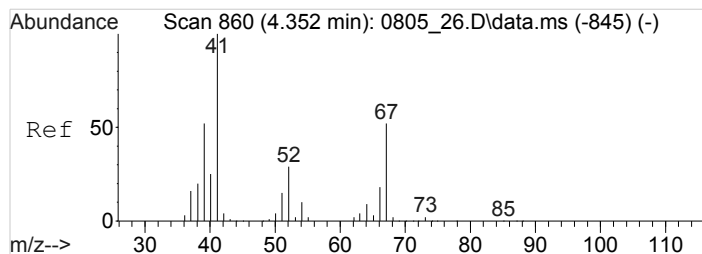
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.564	96	299258	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.503	82	134534	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.976	152	81955	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.564	96	299258	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.503	82	134534	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.976	152	81955	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.413	65	127051	17.2223202	ppb	0.00
Spiked Amount 16.000			Recovery	= 107.64%		
61) TOLUENE-D8	5.484	98	299933	17.6098077	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	= 110.06%		
80) 4-BROMOFLUOROBENZENE	7.339	95	110346	15.7878624	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	= 98.67%		
Target Compounds						
116) METHACRYLONITRILE	4.413	67	62322	15.4861327	ppb #	1
121) 1,4-DIOXANE	5.027	88	1883	62.5538820	ppb #	26
131) HEXACHLOROETHANE	7.976	117	16014	5.3434067	ppb #	13

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

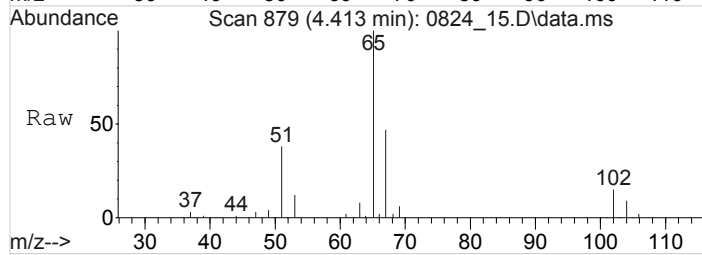
Data Path : C:\msdchem\1\data\082420\
Data File : 0824_15.D
Acq On : 24 Aug 2020 10:45 am
Operator : 859
Sample : L1253445-02 1x WG1531200
Misc : water
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS38

Quant Time: Aug 25 08:19:21 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration

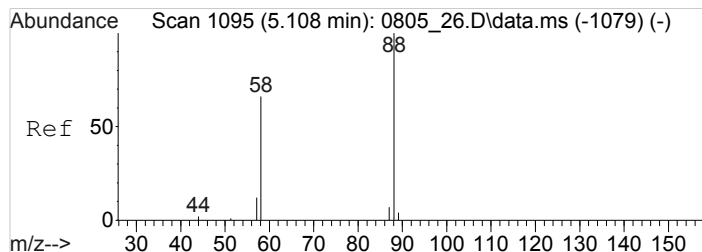
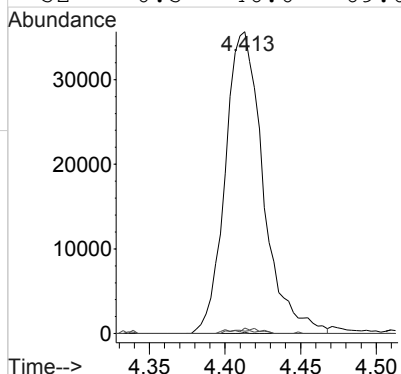
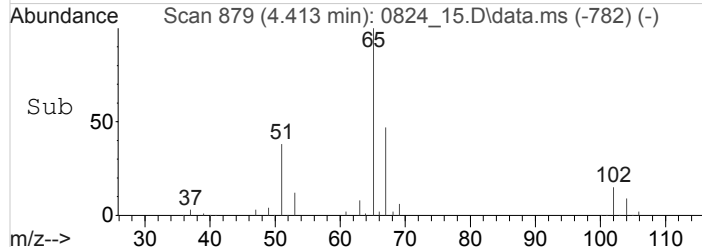




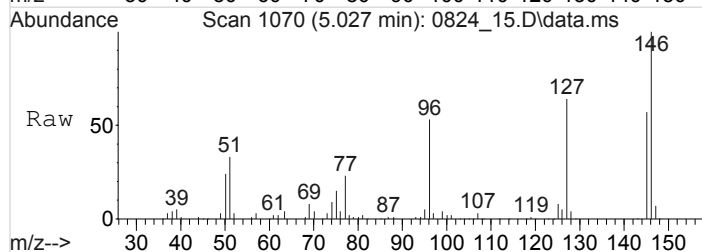
#116
 METHACRYLONITRILE
 Concen: 15.4861327 ppb
 RT: 4.413 min Scan# 879
 Delta R.T. 0.061 min
 Lab File: 0824_15.D
 Acq: 24 Aug 2020 10:45 am



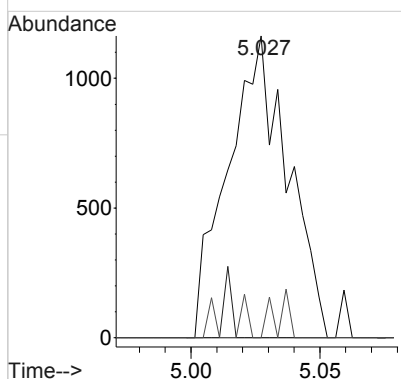
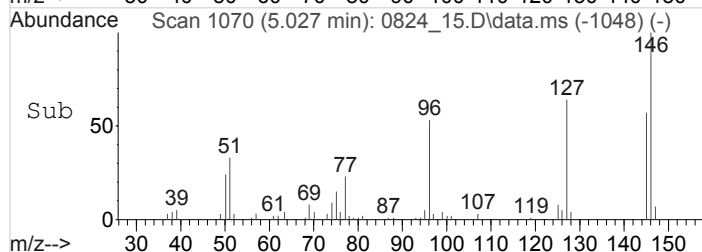
Tgt Ion: 67 Resp: 62322
 Ion Ratio Lower Upper
 67 100
 41 0.0 190.2 285.4#
 39 0.5 94.1 141.1#
 52 0.5 46.0 69.0#

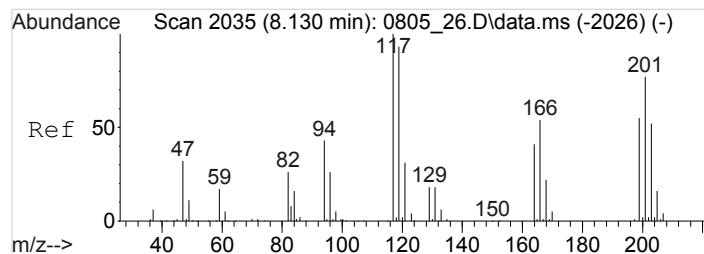


#121
 1,4-DIOXANE
 Concen: 62.5538820 ppb
 RT: 5.027 min Scan# 1070
 Delta R.T. -0.080 min
 Lab File: 0824_15.D
 Acq: 24 Aug 2020 10:45 am



Tgt Ion: 88 Resp: 1883
 Ion Ratio Lower Upper
 88 100
 58 0.0 51.8 77.8#
 43 0.0 10.7 16.1#





#131

HEXACHLOROETHANE

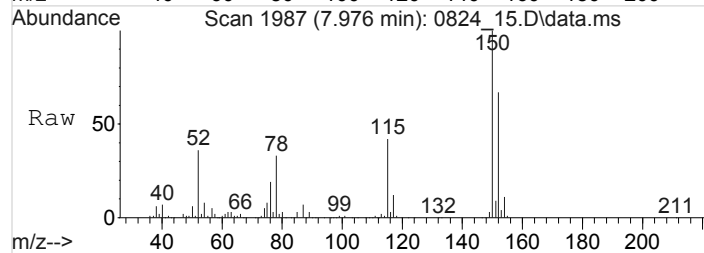
Concen: 5.3434067 ppb

RT: 7.976 min Scan# 1987

Delta R.T. -0.154 min

Lab File: 0824_15.D

Acq: 24 Aug 2020 10:45 am



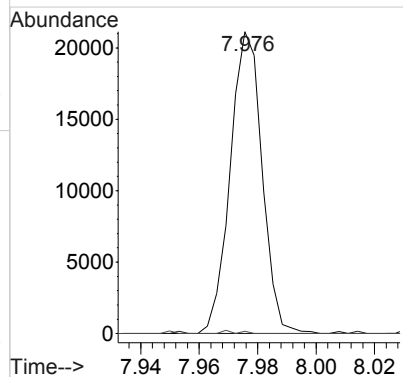
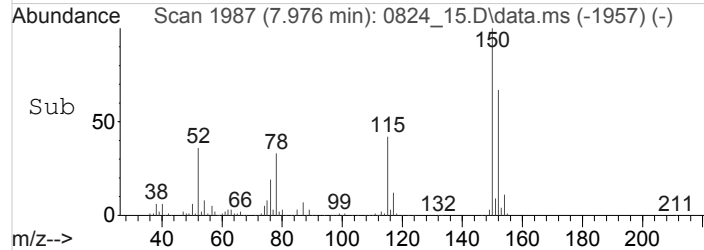
Tgt Ion: 117 Resp: 16014

Ion Ratio Lower Upper

117 100

119 0.0 74.1 111.1#

94 0.0 33.4 50.0#



SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET



Lab Sample ID: L1253445-03
Client Sample ID: MW-03S
Lab File ID: 0824_16
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 13:58
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 11:04
Analysis Date/Time: 08/24/20 11:04
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253445-03
Client Sample ID: MW-03S
Lab File ID: 0824_16
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 13:58
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 11:04
Analysis Date/Time: 08/24/20 11:04
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_16.D
 Acq On : 24 Aug 2020 11:04 am
 Operator : 859
 Sample : L1253445-03 1x WG1531200
 Misc : water
 ALS Vial : 16 Sample Multiplier: 1
 InstName : VOCMS38

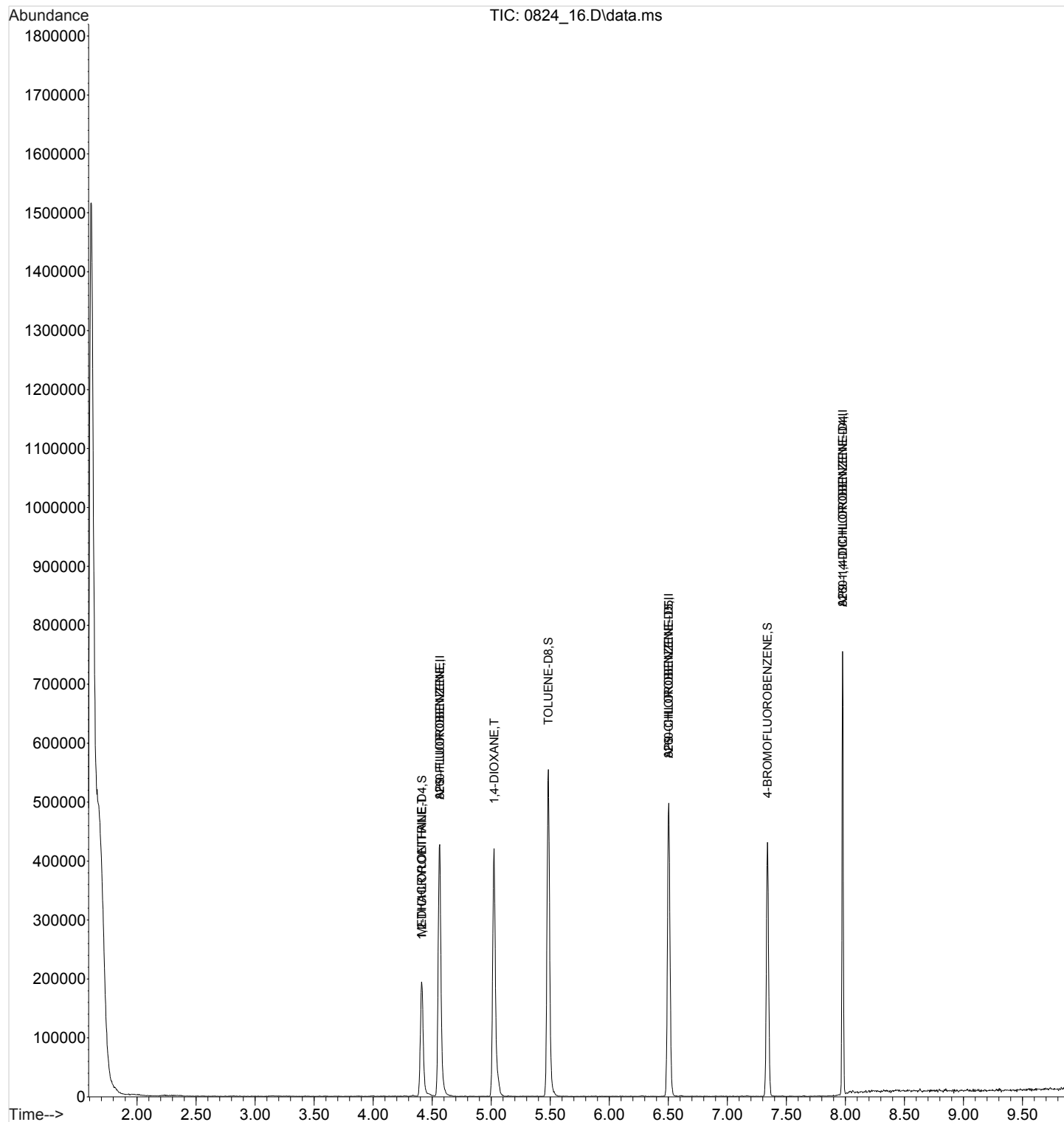
Quant Time: Aug 25 08:19:26 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

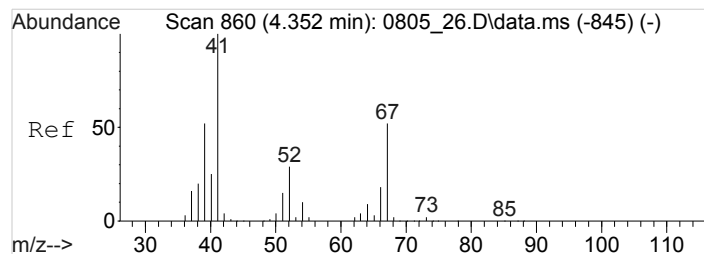
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.564	96	300556	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.503	82	134345	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.976	152	81437	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.564	96	300239	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.503	82	134345	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.976	152	81437	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.413	65	127576	17.2188015	ppb	0.00
Spiked Amount 16.000			Recovery	= 107.62%		
61) TOLUENE-D8	5.484	98	296298	17.4208616	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	= 108.88%		
80) 4-BROMOFLUOROBENZENE	7.339	95	110240	15.7948858	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	= 98.72%		
Target Compounds						
116) METHACRYLONITRILE	4.410	67	62459	15.4694647	ppb #	1
121) 1,4-DIOXANE	5.024	88	1882	62.3163819	ppb #	26

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

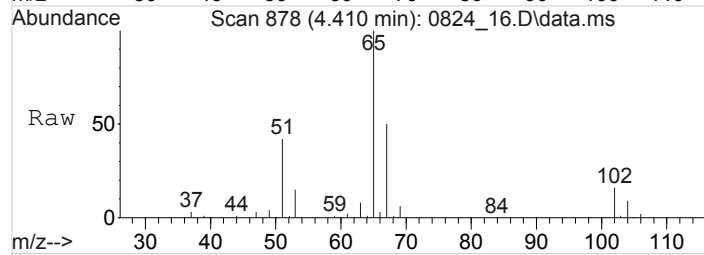
Data Path : C:\msdchem\1\data\082420\
Data File : 0824_16.D
Acq On : 24 Aug 2020 11:04 am
Operator : 859
Sample : L1253445-03 1x WG1531200
Misc : water
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS38

Quant Time: Aug 25 08:19:26 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration

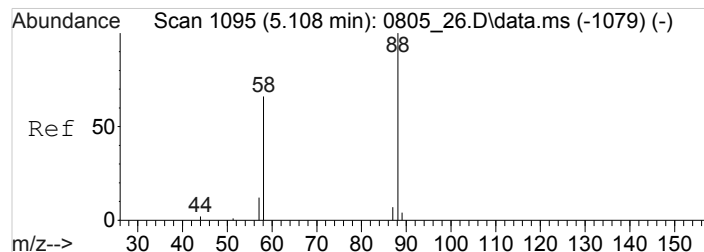
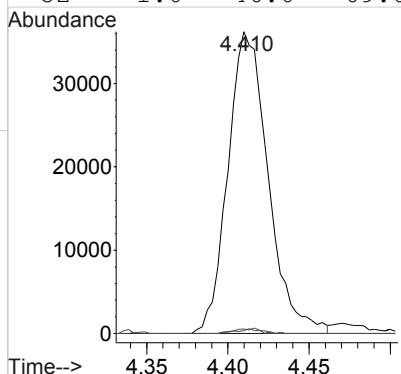
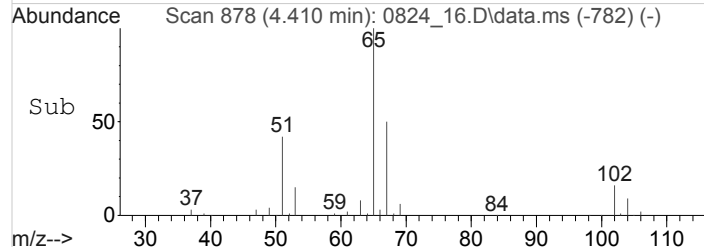




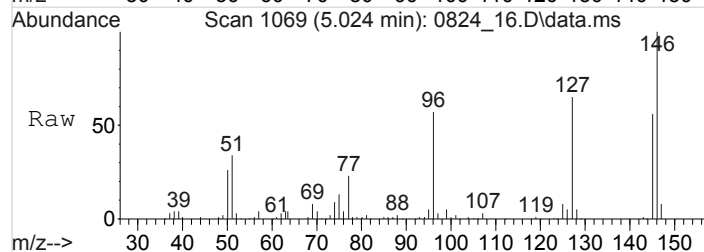
#116
 METHACRYLONITRILE
 Concen: 15.4694647 ppb
 RT: 4.410 min Scan# 878
 Delta R.T. 0.058 min
 Lab File: 0824_16.D
 Acq: 24 Aug 2020 11:04 am



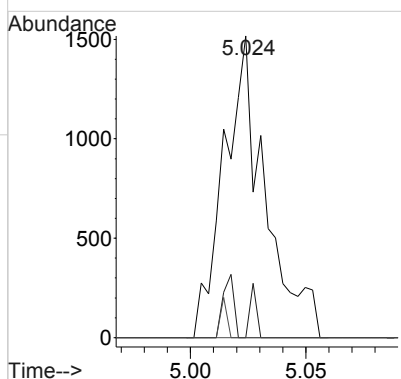
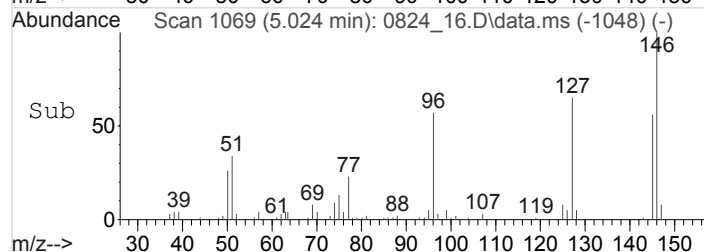
Tgt Ion: 67 Resp: 62459
 Ion Ratio Lower Upper
 67 100
 41 0.0 190.2 285.4#
 39 1.1 94.1 141.1#
 52 1.0 46.0 69.0#



#121
 1,4-DIOXANE
 Concen: 62.3163819 ppb
 RT: 5.024 min Scan# 1069
 Delta R.T. -0.084 min
 Lab File: 0824_16.D
 Acq: 24 Aug 2020 11:04 am



Tgt Ion: 88 Resp: 1882
 Ion Ratio Lower Upper
 88 100
 58 0.0 51.8 77.8#
 43 0.0 10.7 16.1#



SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET



Lab Sample ID: L1253445-04
Client Sample ID: MW-031
Lab File ID: 0824_17
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 14:38
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 11:24
Analysis Date/Time: 08/24/20 11:24
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253445-04	SDG:	L1253445
Client Sample ID:	MW-03I	Collected Date/Time:	08/18/20 14:38
Lab File ID:	0824_17	Received Date/Time:	08/21/20 09:30
Instrument ID:	VOCMS38	Preparation Date/Time:	08/24/20 11:24
Analytical Batch:	WG1531200	Analysis Date/Time:	08/24/20 11:24
Dilution Factor:	1	Prep Method:	8260B
Analytical Method:	8260B	Sample Vol Used:	5 mL
Matrix:	GW	Initial Wt/Vol:	
Total Solids (%):		Final Wt/Vol:	5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_17.D
 Acq On : 24 Aug 2020 11:24 am
 Operator : 859
 Sample : L1253445-04 1x WG1531200
 Misc : water
 ALS Vial : 17 Sample Multiplier: 1
 InstName : VOCMS38

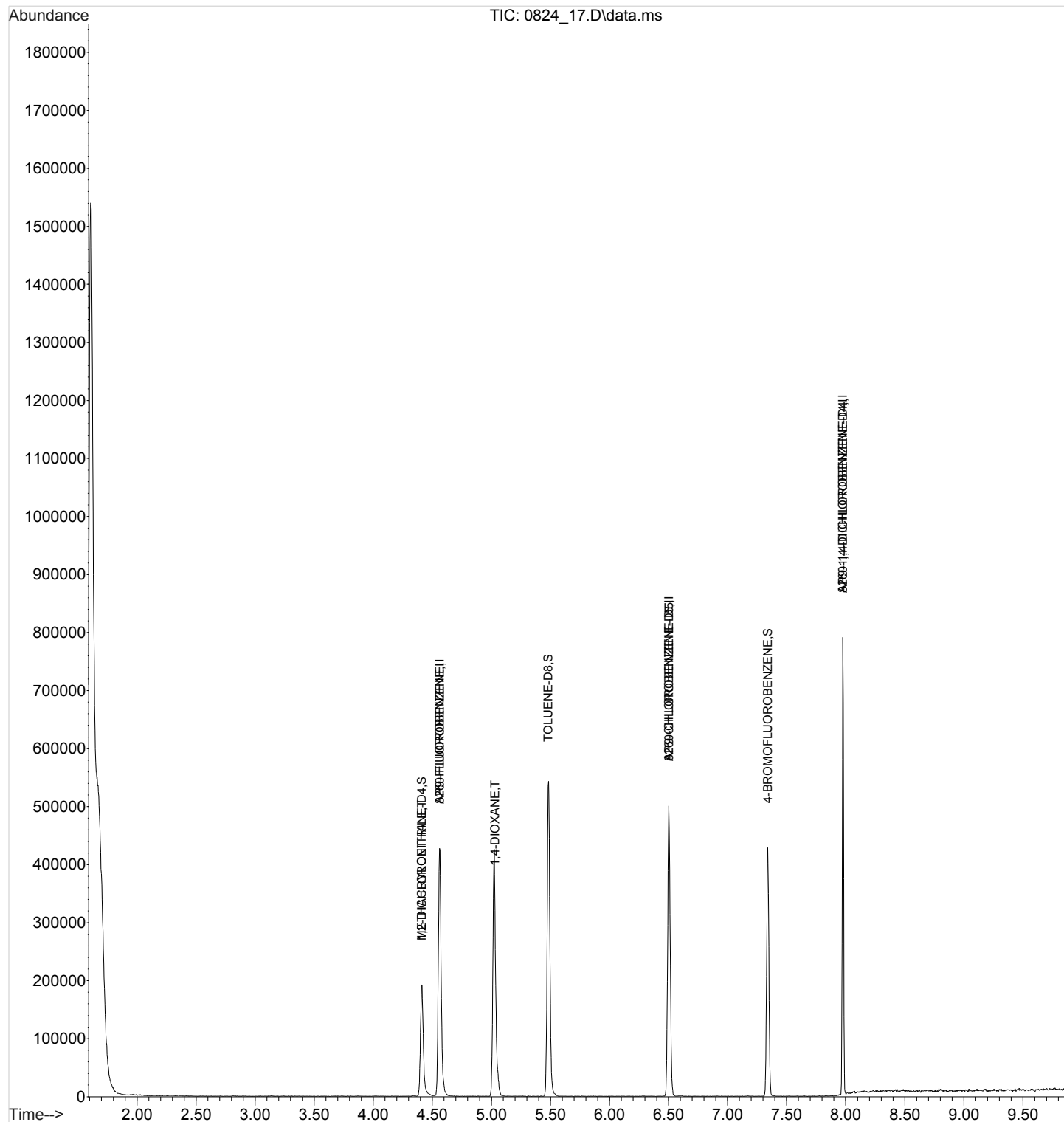
Quant Time: Aug 25 08:19:31 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

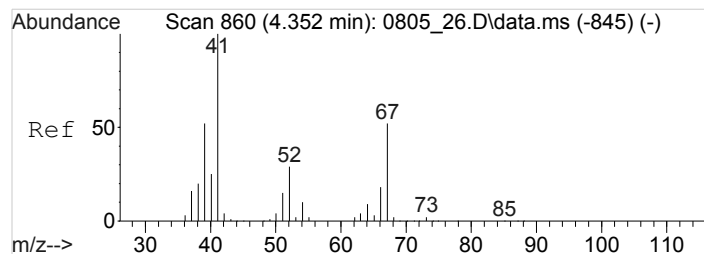
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) 8260-FLUOROBENZENE	4.561	96	299859	16.0000000	ppb	0.00	
59) 8260-CHLOROBENZENE-D5	6.503	82	132974	16.0000000	ppb	0.00	
81) 8260-1,4-DICHLOROBENZE...	7.976	152	83807	16.0000000	ppb	0.00	
109) AP9-FLUOROBENZENE	4.561	96	299859	16.0000000	ppb	0.00	
123) AP9-CHLOROBENZENE-D5	6.503	82	132974	16.0000000	ppb	0.00	
127) AP9-1,4-DICHLOROBENZEN...	7.976	152	83807	16.0000000	ppb	0.00	
System Monitoring Compounds							
48) 1,2-DICHLOROETHANE-D4	4.410	65	125744	17.0109874	ppb	0.00	
Spiked Amount 16.000			Recovery	=	106.32%		
61) TOLUENE-D8	5.481	98	295679	17.5637063	ppb	0.00	
Spiked Amount 16.000	Range	90 - 115	Recovery	=	109.77%		
80) 4-BROMOFLUOROBENZENE	7.339	95	109481	15.8478669	ppb	0.00	
Spiked Amount 16.000	Range	80 - 120	Recovery	=	99.05%		
Target Compounds						Qvalue	
116) METHACRYLONITRILE	4.410	67	61351	15.2142981	ppb	#	1
121) 1,4-DIOXANE	5.030	88	1836	60.8702807	ppb	#	26

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

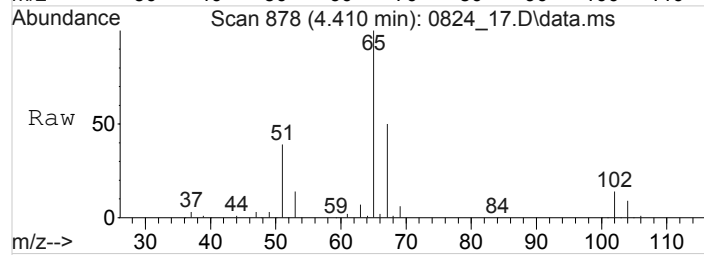
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Data File : 0824_17.D
Acq On : 24 Aug 2020 11:24 am
Operator : 859
Sample : L1253445-04 1x WG1531200
Misc : water
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS38

Quant Time: Aug 25 08:19:31 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration

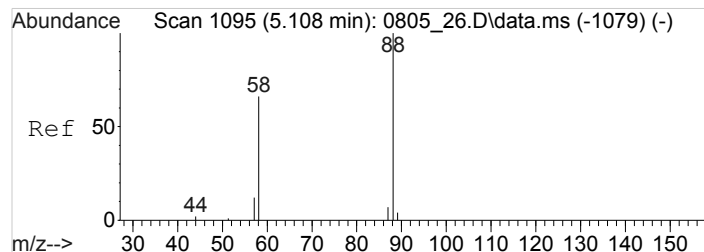
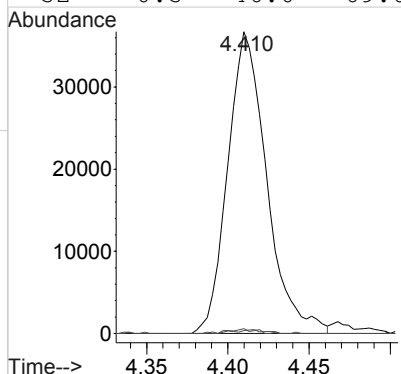
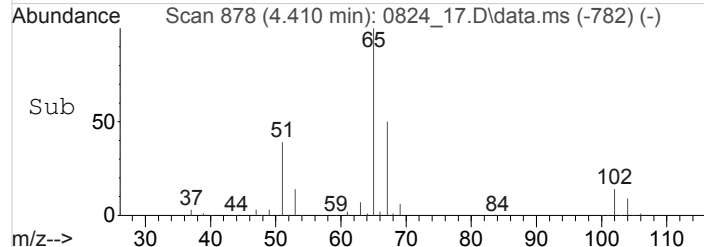




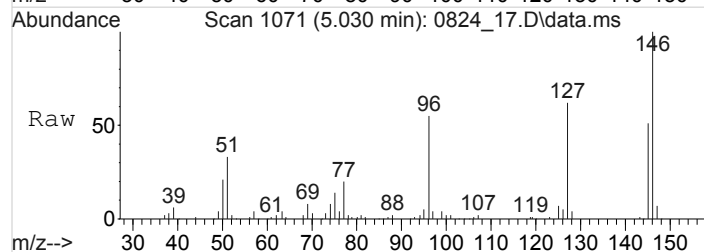
#116
 METHACRYLONITRILE
 Concen: 15.2142981 ppb
 RT: 4.410 min Scan# 878
 Delta R.T. 0.058 min
 Lab File: 0824_17.D
 Acq: 24 Aug 2020 11:24 am



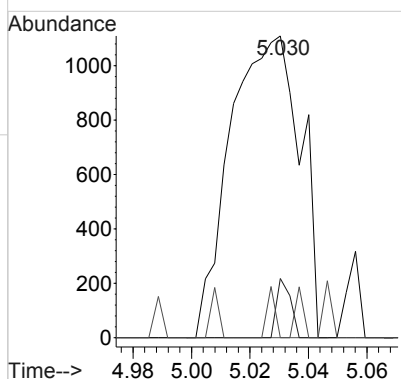
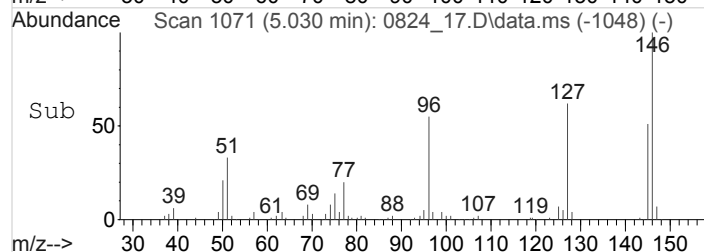
Tgt Ion: 67 Resp: 61351
 Ion Ratio Lower Upper
 67 100
 41 0.0 190.2 285.4#
 39 1.0 94.1 141.1#
 52 0.5 46.0 69.0#



#121
 1,4-DIOXANE
 Concen: 60.8702807 ppb
 RT: 5.030 min Scan# 1071
 Delta R.T. -0.077 min
 Lab File: 0824_17.D
 Acq: 24 Aug 2020 11:24 am



Tgt Ion: 88 Resp: 1836
 Ion Ratio Lower Upper
 88 100
 58 0.0 51.8 77.8#
 43 0.0 10.7 16.1#



SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253445-05
Client Sample ID: MW-04I
Lab File ID: 0824_18
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 12:27
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 11:43
Analysis Date/Time: 08/24/20 11:43
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND	J3	0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	4.34	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND	J5	0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND	J5	0.000136	0.00100
Bromoform	75-25-2	0	ND	J5	0.000129	0.00100
Bromomethane	74-83-9	0	ND	J3	0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND	J5	0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND	J5	0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND	J5	0.000140	0.00100
Chloroethane	75-00-3	0	ND	J5	0.000192	0.00500
Chloroform	67-66-3	0	ND	J5	0.000111	0.00500
Chloromethane	74-87-3	0	ND	J5	0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND	J5	0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND	J5	0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND	J5	0.000126	0.00100
Dibromomethane	74-95-3	0	ND	J5	0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND	J5	0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND	J5	0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND	J5	0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND	J5	0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND	J5	0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND	J5	0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND	J5	0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND	J5	0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND	J5	0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253445-05
Client Sample ID: MW-04I
Lab File ID: 0824_18
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 12:27
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 11:43
Analysis Date/Time: 08/24/20 11:43
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND	J5	0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND	J5	0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND	J5	0.000300	0.00100
Toluene	108-88-3	0	ND	J5	0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND	J5	0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND	J5	0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND	J3	0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND	J5	0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND	J5	0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND	J5	0.000104	0.00100
Vinyl chloride	75-01-4	0	ND	J5	0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND	J5	0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_18.D
 Acq On : 24 Aug 2020 11:43 am
 Operator : 859
 Sample : L1253445-05 1x WG1531200
 Misc : water
 ALS Vial : 18 Sample Multiplier: 1
 InstName : VOCMS38

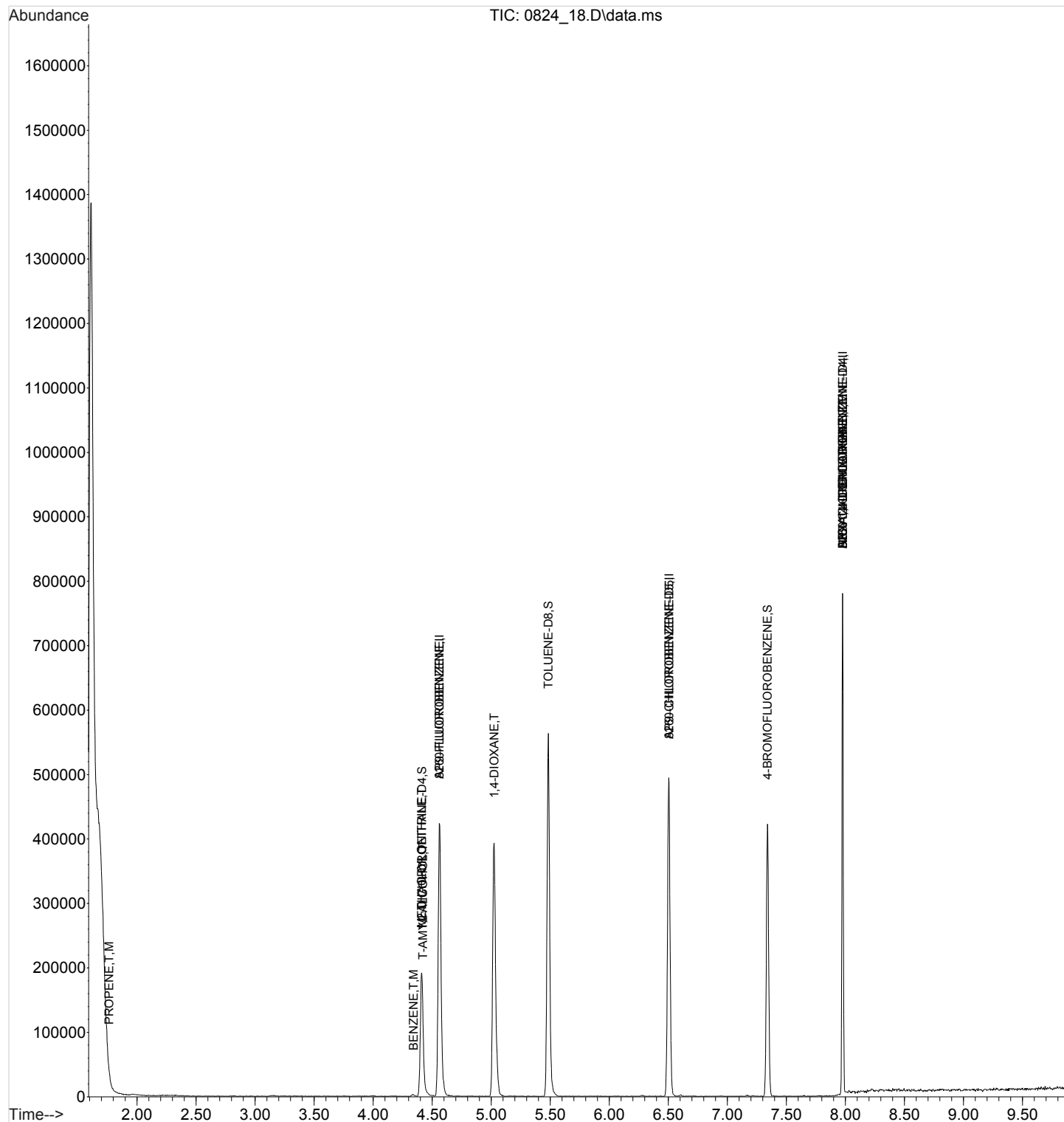
Quant Time: Aug 26 21:42:17 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

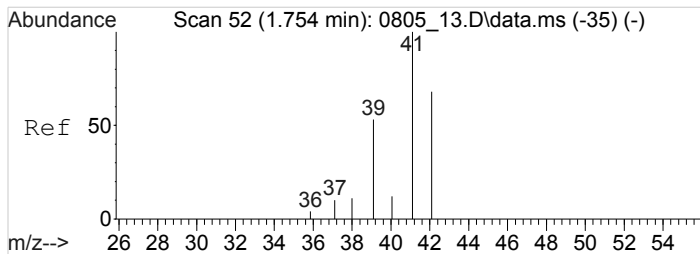
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	297147	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.506	82	132500	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.976	152	83205	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.561	96	297017	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.506	82	132500	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.976	152	83205	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.413	65	128405	17.5295160	ppb	0.00
Spiked Amount 16.000			Recovery	= 109.56%		
61) TOLUENE-D8	5.484	98	294863	17.5778931	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	= 109.86%		
80) 4-BROMOFLUOROBENZENE	7.339	95	108433	15.7523150	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	= 98.45%		
Target Compounds						Qvalue
4) PROPENE	1.764	41	226	1.2945345	ppb #	1
46) BENZENE	4.342	78	1790	0.0955618	ppb #	75
50) T-AMYL ALCOHOL	4.420	59	221	0.1896943	ppb #	53
96) DICYCLOPENTADIENE	7.976	66	2280	0.1166905	ppb #	93
116) METHACRYLONITRILE	4.410	67	62003	15.5231109	ppb #	1
121) 1,4-DIOXANE	5.024	88	1834	61.3857746	ppb #	26
131) HEXACHLOROETHANE	7.976	117	16391	5.3870361	ppb #	13

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

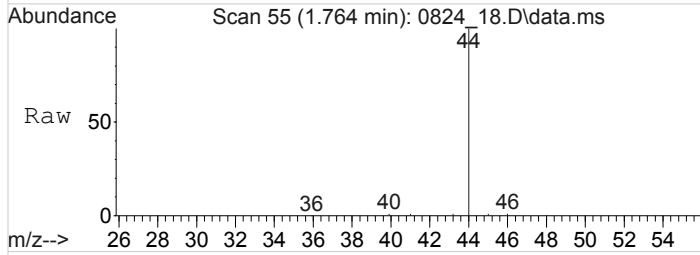
Data Path : C:\msdchem\1\data\082420\
Data File : 0824_18.D
Acq On : 24 Aug 2020 11:43 am
Operator : 859
Sample : L1253445-05 1x WG1531200
Misc : water
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS38

Quant Time: Aug 26 21:42:17 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration

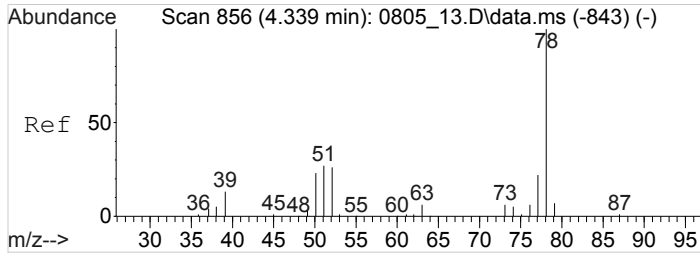
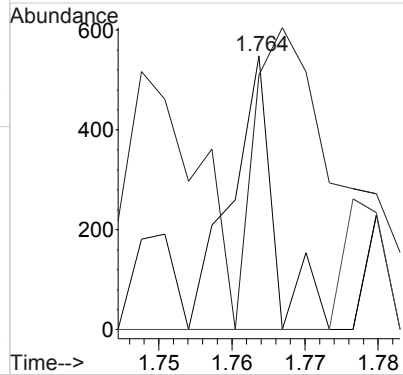
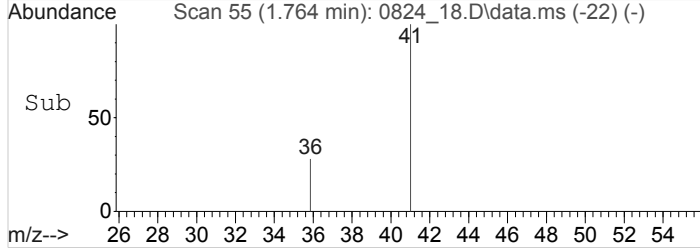




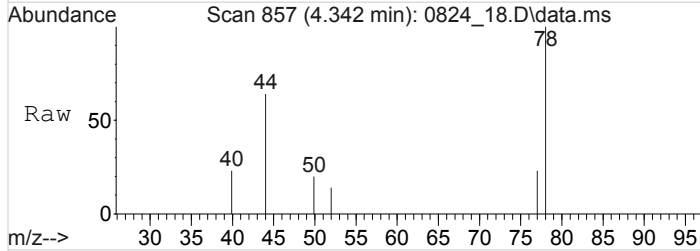
#4
PROPENE
Concen: 1.2945345 ppb
RT: 1.764 min Scan# 55
Delta R.T. 0.011 min
Lab File: 0824_18.D
Acq: 24 Aug 2020 11:43 am



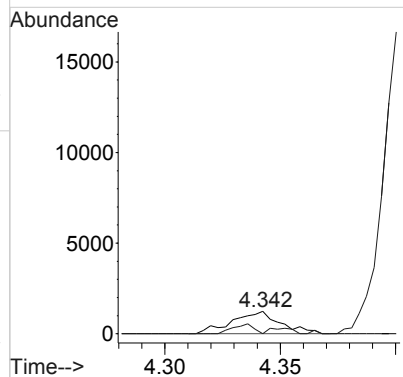
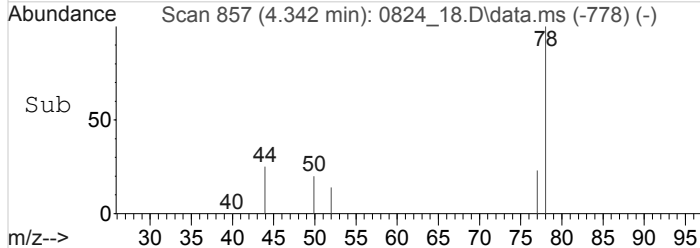
Tgt Ion: 41 Resp: 226
Ion Ratio Lower Upper
41 100
40 224.8 8.7 13.1#
42 0.0 55.2 82.8#

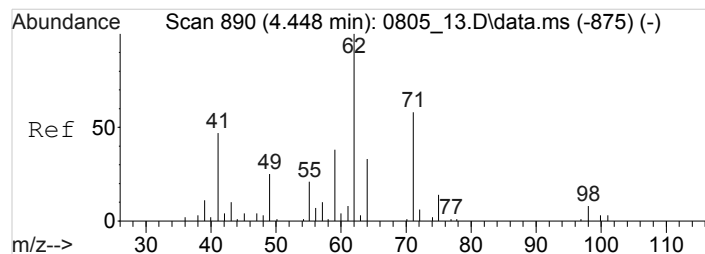


#46
BENZENE
Concen: 0.0955618 ppb
RT: 4.342 min Scan# 857
Delta R.T. 0.003 min
Lab File: 0824_18.D
Acq: 24 Aug 2020 11:43 am

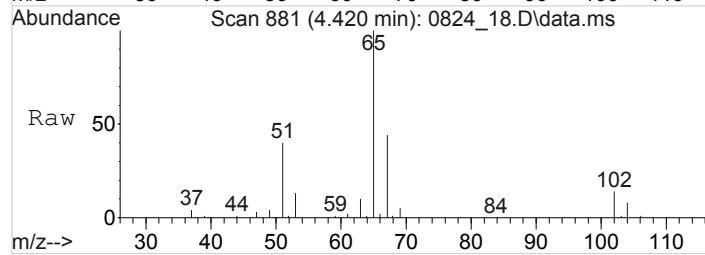


Tgt Ion: 78 Resp: 1790
Ion Ratio Lower Upper
78 100
51 11.9 19.3 28.9#

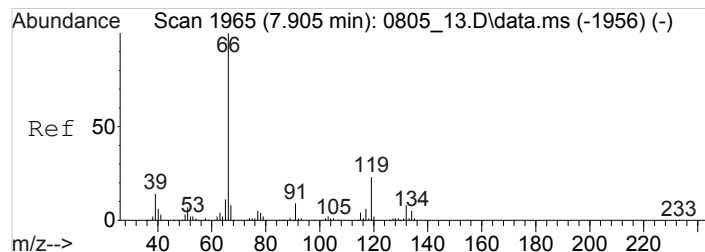
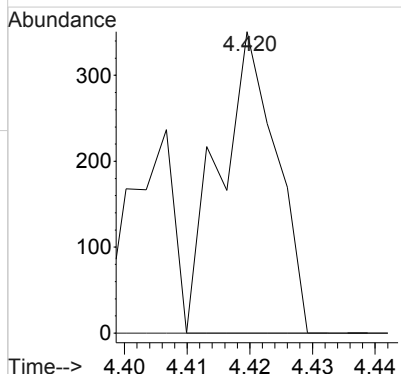
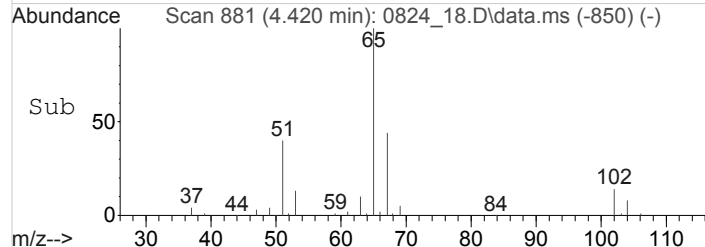




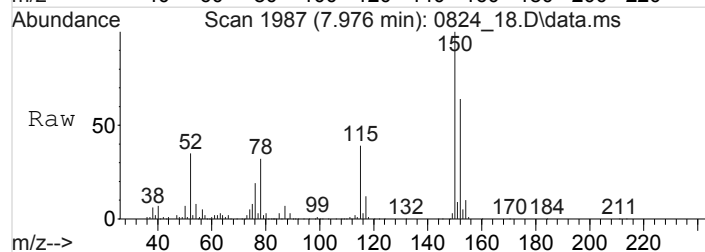
#50
T-AMYL ALCOHOL
Concen: 0.1896943 ppb
RT: 4.420 min Scan# 881
Delta R.T. -0.029 min
Lab File: 0824_18.D
Acq: 24 Aug 2020 11:43 am



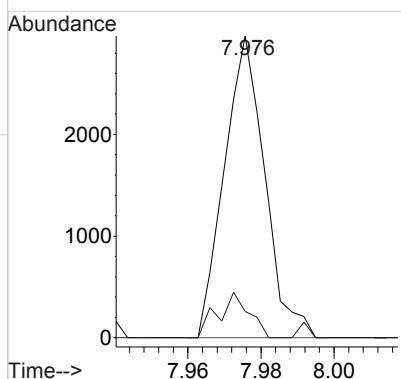
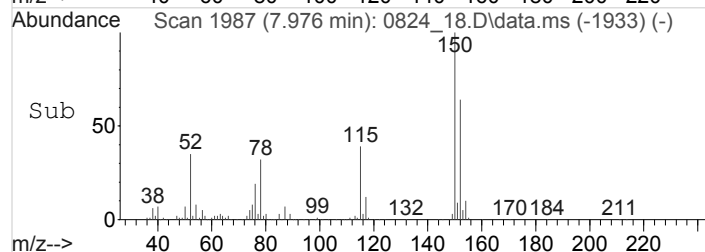
Tgt Ion: 59 Resp: 221
Ion Ratio Lower Upper
59 100
73 0.0 17.8 26.8#

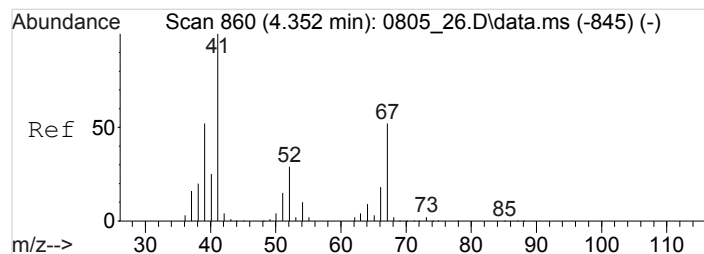


#96
DICYCLOPENTADIENE
Concen: 0.1166905 ppb
RT: 7.976 min Scan# 1987
Delta R.T. 0.071 min
Lab File: 0824_18.D
Acq: 24 Aug 2020 11:43 am

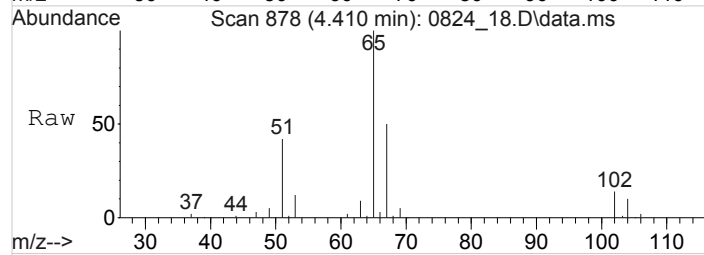


Tgt Ion: 66 Resp: 2280
Ion Ratio Lower Upper
66 100
132 11.6 7.3 10.9#

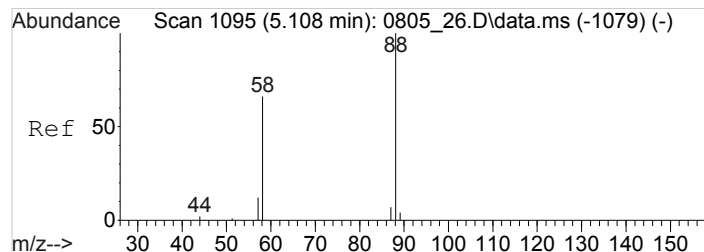
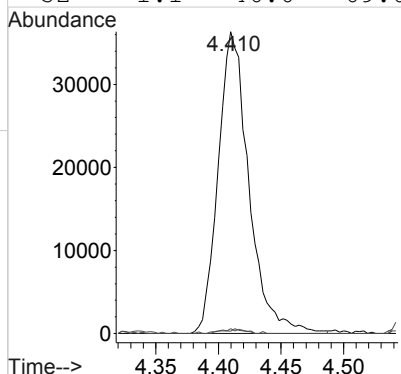
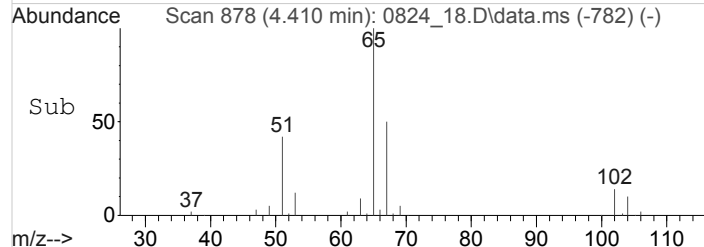




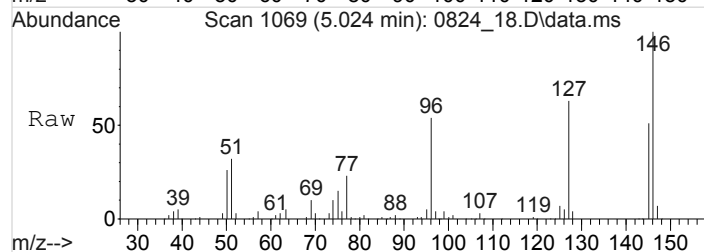
#116
 METHACRYLONITRILE
 Concen: 15.5231109 ppb
 RT: 4.410 min Scan# 878
 Delta R.T. 0.058 min
 Lab File: 0824_18.D
 Acq: 24 Aug 2020 11:43 am



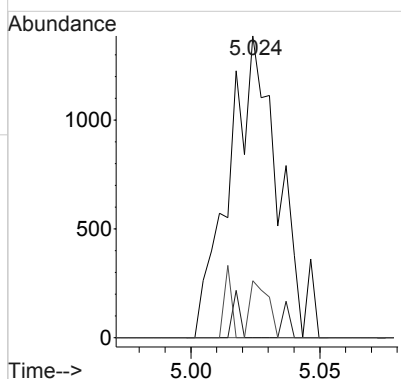
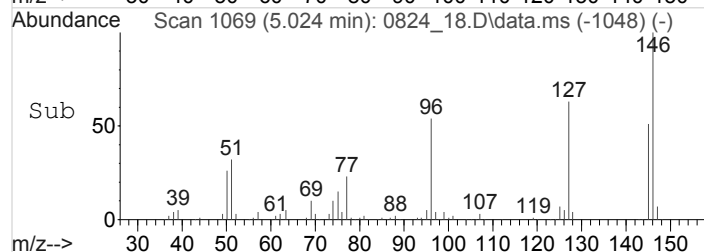
Tgt Ion: 67 Resp: 62003
 Ion Ratio Lower Upper
 67 100
 41 0.0 190.2 285.4#
 39 1.1 94.1 141.1#
 52 1.1 46.0 69.0#

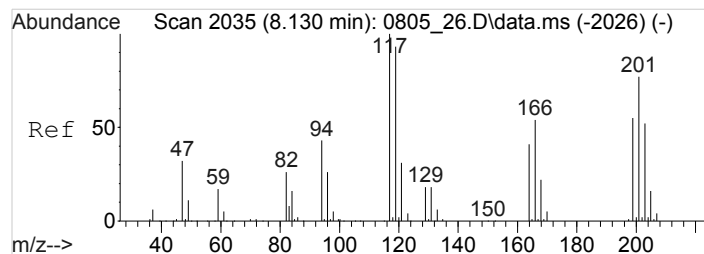


#121
 1,4-DIOXANE
 Concen: 61.3857746 ppb
 RT: 5.024 min Scan# 1069
 Delta R.T. -0.084 min
 Lab File: 0824_18.D
 Acq: 24 Aug 2020 11:43 am

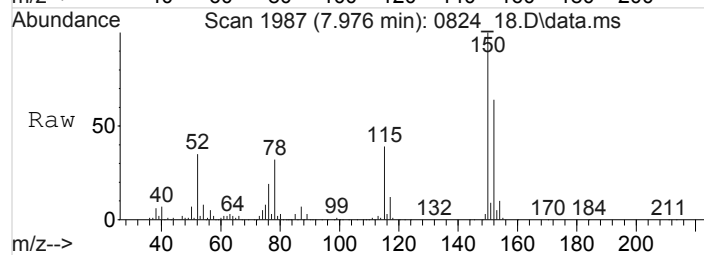


Tgt Ion: 88 Resp: 1834
 Ion Ratio Lower Upper
 88 100
 58 0.0 51.8 77.8#
 43 0.0 10.7 16.1#

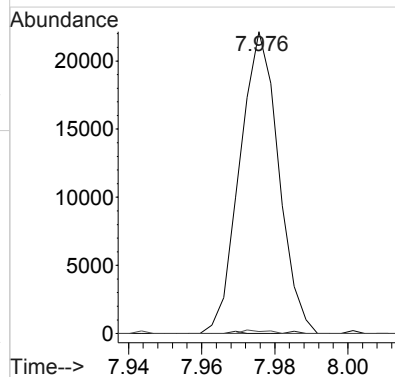
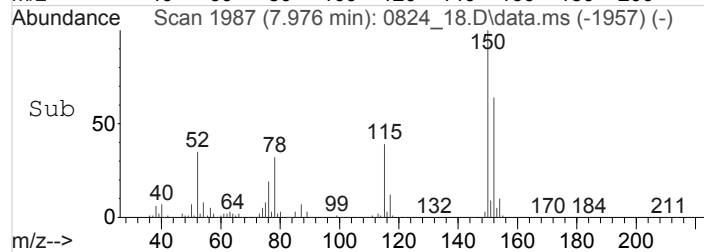




#131
 HEXACHLOROETHANE
 Concen: 5.3870361 ppb
 RT: 7.976 min Scan# 1987
 Delta R.T. -0.154 min
 Lab File: 0824_18.D
 Acq: 24 Aug 2020 11:43 am



Tgt Ion	Ratio	Lower	Upper
117	100		
119	0.0	74.1	111.1#
94	0.0	33.4	50.0#



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-04D

Lab Sample ID: L1253445-06
Client Sample ID: MW-04D
Lab File ID: 0824_19
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 13:18
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 12:02
Analysis Date/Time: 08/24/20 12:02
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253445-06
Client Sample ID: MW-04D
Lab File ID: 0824_19
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 13:18
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 12:02
Analysis Date/Time: 08/24/20 12:02
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_19.D
 Acq On : 24 Aug 2020 12:02 pm
 Operator : 859
 Sample : L1253445-06 1x WG1531200
 Misc : water
 ALS Vial : 19 Sample Multiplier: 1
 InstName : VOCMS38

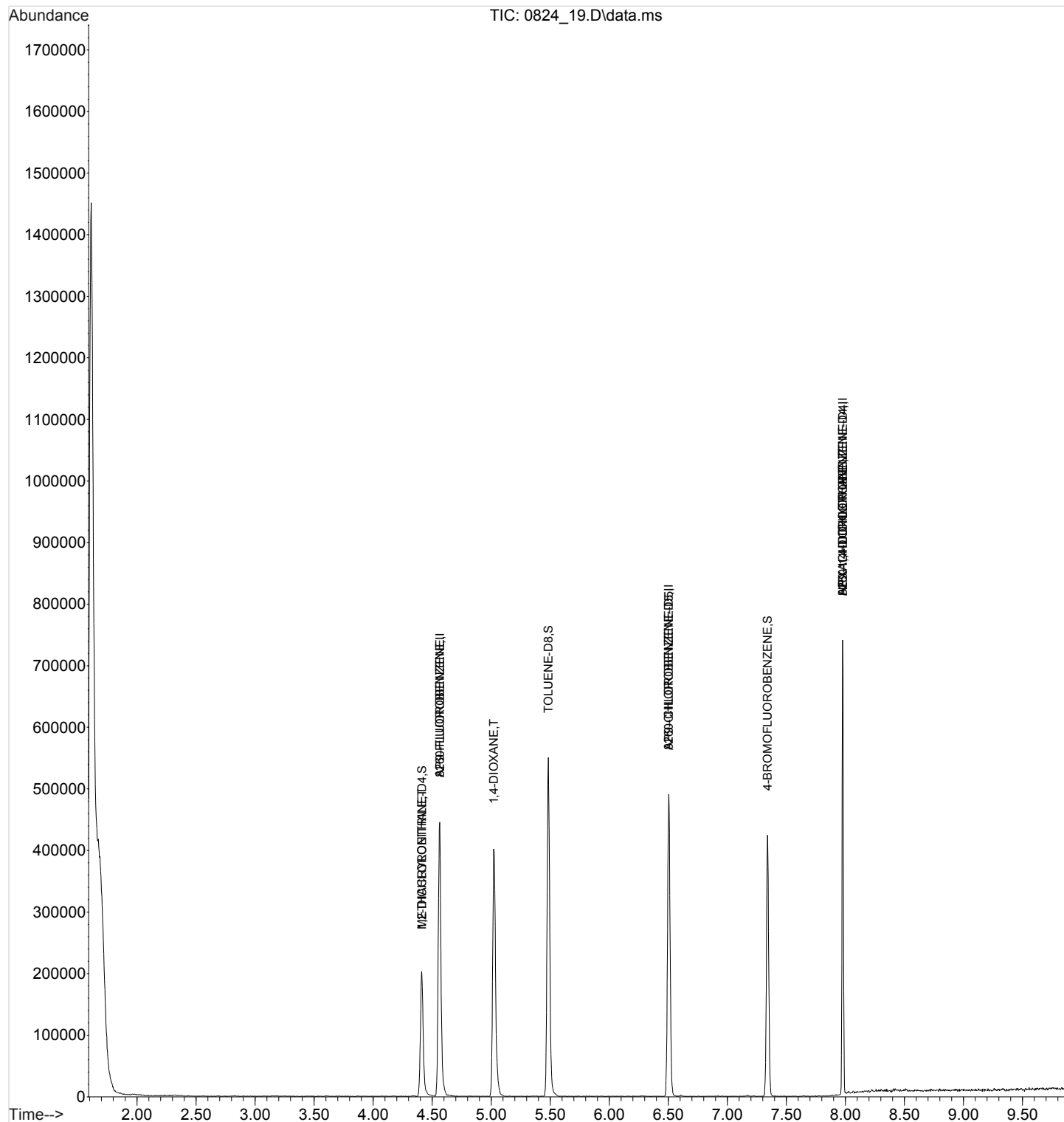
Quant Time: Aug 25 08:19:41 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

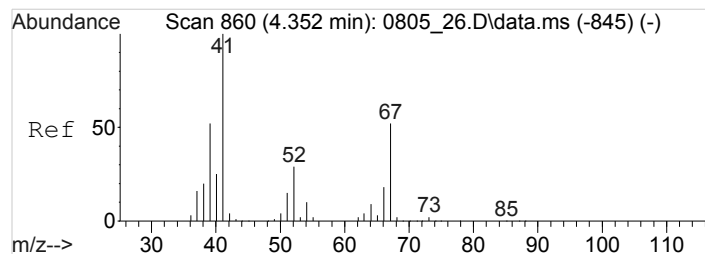
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.564	96	293944	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.503	82	133860	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.976	152	81632	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.564	96	293944	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.503	82	133860	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.976	152	81632	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.413	65	127991	17.6633947	ppb	0.00
Spiked Amount 16.000			Recovery	= 110.40%		
61) TOLUENE-D8	5.484	98	293020	17.2905521	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	= 108.07%		
80) 4-BROMOFLUOROBENZENE	7.339	95	107253	15.4225938	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	= 96.39%		
Target Compounds						
116) METHACRYLONITRILE	4.413	67	62590	15.8338933	ppb #	1
121) 1,4-DIOXANE	5.021	88	1981	66.9991961	ppb #	26
131) HEXACHLOROETHANE	7.976	117	15774	5.2841515	ppb #	13

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

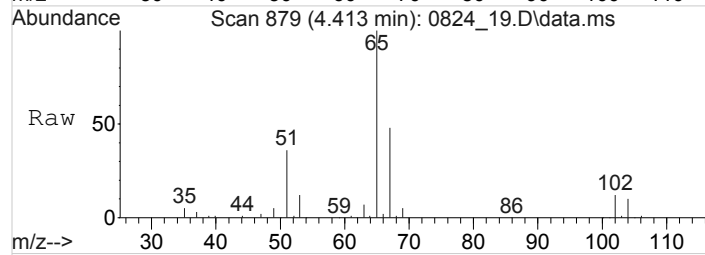
Data Path : C:\msdchem\1\data\082420\
Data File : 0824_19.D
Acq On : 24 Aug 2020 12:02 pm
Operator : 859
Sample : L1253445-06 1x WG1531200
Misc : water
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS38

Quant Time: Aug 25 08:19:41 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration

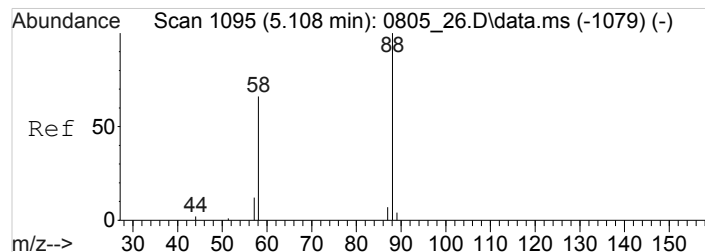
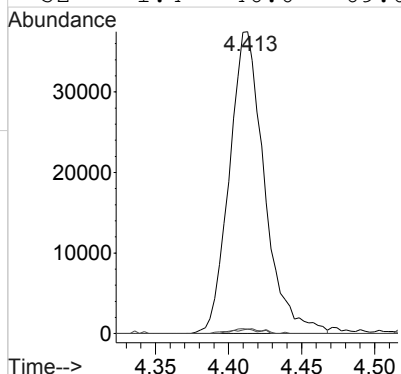
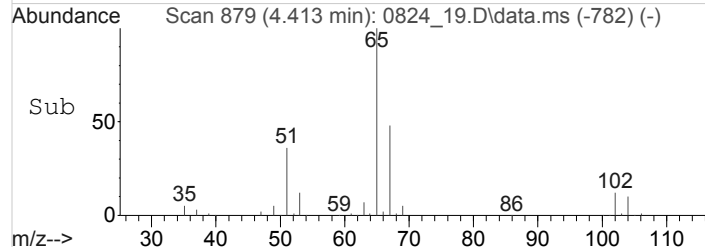




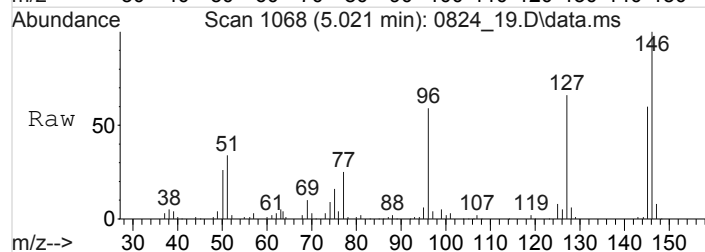
#116
 METHACRYLONITRILE
 Concen: 15.8338933 ppb
 RT: 4.413 min Scan# 879
 Delta R.T. 0.061 min
 Lab File: 0824_19.D
 Acq: 24 Aug 2020 12:02 pm



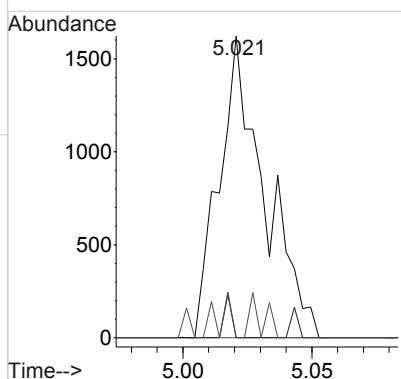
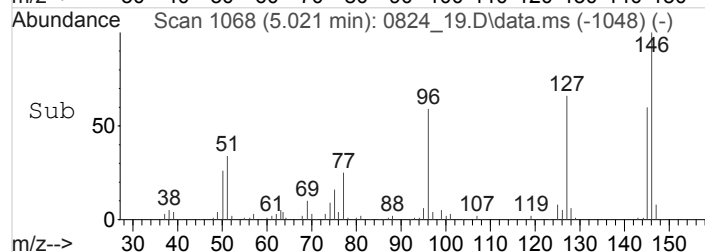
Tgt Ion: 67 Resp: 62590
 Ion Ratio Lower Upper
 67 100
 41 0.0 190.2 285.4#
 39 1.2 94.1 141.1#
 52 1.4 46.0 69.0#

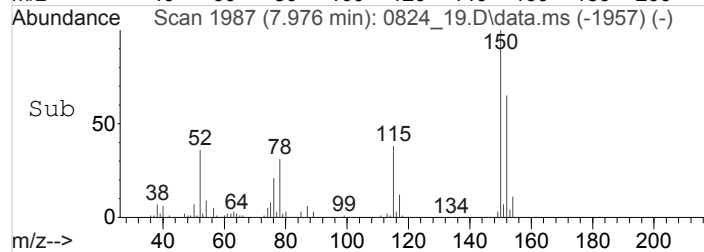
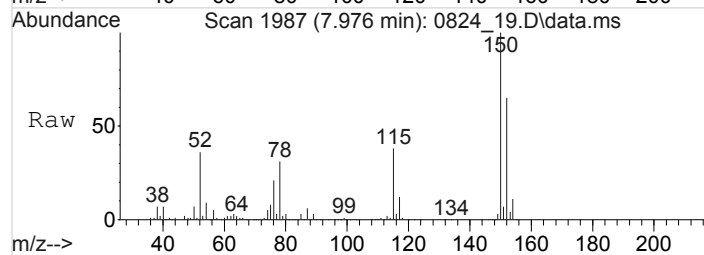
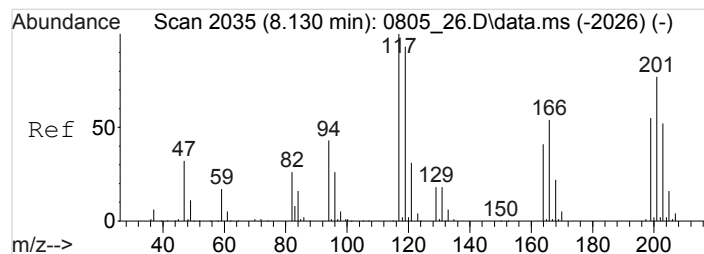


#121
 1,4-DIOXANE
 Concen: 66.9991961 ppb
 RT: 5.021 min Scan# 1068
 Delta R.T. -0.087 min
 Lab File: 0824_19.D
 Acq: 24 Aug 2020 12:02 pm



Tgt Ion: 88 Resp: 1981
 Ion Ratio Lower Upper
 88 100
 58 0.0 51.8 77.8#
 43 0.0 10.7 16.1#





#131

HEXACHLOROETHANE

Concen: 5.2841515 ppb

RT: 7.976 min Scan# 1987

Delta R.T. -0.154 min

Lab File: 0824_19.D

Acq: 24 Aug 2020 12:02 pm

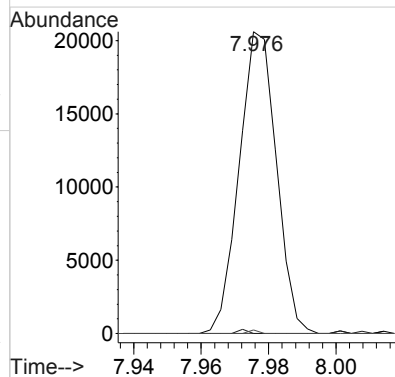
Tgt Ion: 117 Resp: 15774

Ion Ratio Lower Upper

117 100

119 0.0 74.1 111.1#

94 0.0 33.4 50.0#



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-5S

Lab Sample ID: L1253445-07
Client Sample ID: MW-5S
Lab File ID: 0824_20
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 17:04
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 12:21
Analysis Date/Time: 08/24/20 12:21
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	3.15	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	8.14	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

Lab Sample ID:	L1253445-07	SDG:	L1253445
Client Sample ID:	MW-5S	Collected Date/Time:	08/18/20 17:04
Lab File ID:	0824_20	Received Date/Time:	08/21/20 09:30
Instrument ID:	VOCMS38	Preparation Date/Time:	08/24/20 12:21
Analytical Batch:	WG1531200	Analysis Date/Time:	08/24/20 12:21
Dilution Factor:	1	Prep Method:	8260B
Analytical Method:	8260B	Sample Vol Used:	5 mL
Matrix:	GW	Initial Wt/Vol:	
Total Solids (%):		Final Wt/Vol:	5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_20.D
 Acq On : 24 Aug 2020 12:21 pm
 Operator : 859
 Sample : L1253445-07 1x WG1531200
 Misc : water
 ALS Vial : 20 Sample Multiplier: 1
 InstName : VOCMS38

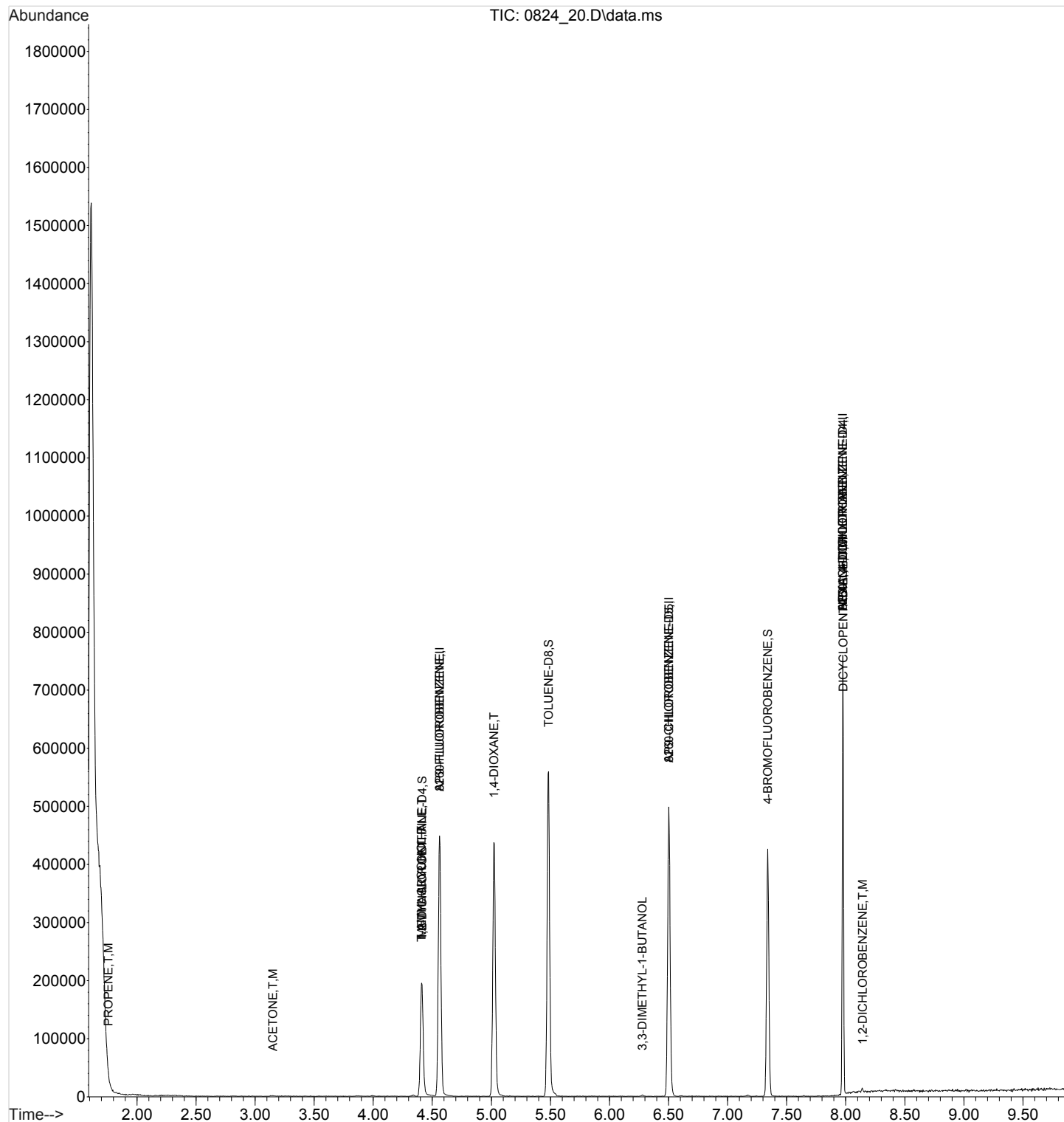
Quant Time: Aug 26 21:42:37 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

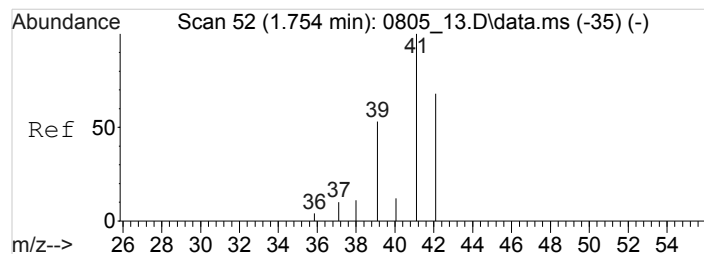
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) 8260-FLUOROBENZENE	4.561	96	291813	16.0000000	ppb	0.00	
59) 8260-CHLOROBENZENE-D5	6.503	82	132984	16.0000000	ppb	0.00	
81) 8260-1,4-DICHLOROBENZE...	7.976	152	79732	16.0000000	ppb	0.00	
109) AP9-FLUOROBENZENE	4.561	96	291813	16.0000000	ppb	0.00	
123) AP9-CHLOROBENZENE-D5	6.503	82	132984	16.0000000	ppb	0.00	
127) AP9-1,4-DICHLOROBENZEN...	7.976	152	79732	16.0000000	ppb	0.00	
System Monitoring Compounds							
48) 1,2-DICHLOROETHANE-D4	4.413	65	126070	17.5253402	ppb	0.00	
Spiked Amount 16.000			Recovery	= 109.53%			
61) TOLUENE-D8	5.484	98	289665	17.2051732	ppb	0.00	
Spiked Amount 16.000	Range	90 - 115	Recovery	= 107.53%			
80) 4-BROMOFLUOROBENZENE	7.339	95	107432	15.5500956	ppb	0.00	
Spiked Amount 16.000	Range	80 - 120	Recovery	= 97.19%			
Target Compounds						Qvalue	
4) PROPENE	1.757	41	162	1.2792249	ppb #	23	
19) ACETONE	3.150	43	1678	1.0048282	ppb #	43	
50) T-AMYL ALCOHOL	4.407	59	195	0.1704368	ppb #	53	
96) DICYCLOPENTADIENE	7.979	66	2000	0.1068187	ppb #	75	
99) 1,2-DICHLOROBENZENE	8.143	146	967	0.1644342	ppb	100	
116) METHACRYLONITRILE	4.410	67	60796	15.4923655	ppb #	1	
121) 1,4-DIOXANE	5.021	88	2144	73.0415300	ppb #	26	
125) 3,3-DIMETHYL-1-BUTANOL	6.278	57	249	0.1999293	ppb #	23	
131) HEXACHLOROETHANE	7.976	117	15733	5.3960100	ppb #	13	

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

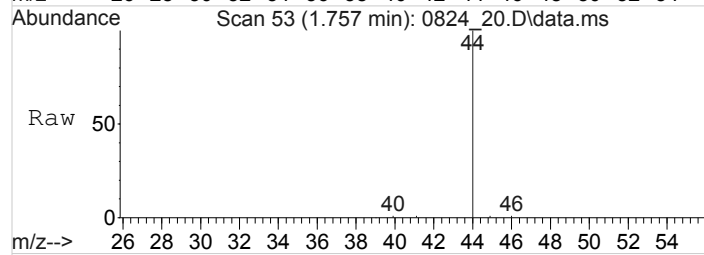
Data Path : C:\msdchem\1\data\082420\
Data File : 0824_20.D
Acq On : 24 Aug 2020 12:21 pm
Operator : 859
Sample : L1253445-07 1x WG1531200
Misc : water
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS38

Quant Time: Aug 26 21:42:37 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration

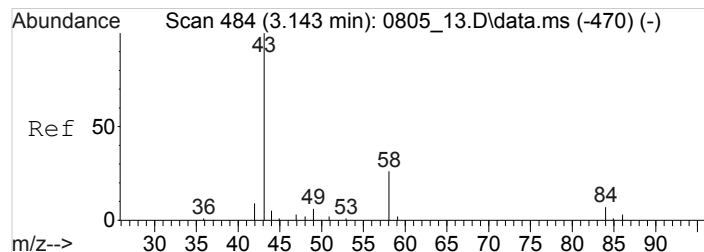
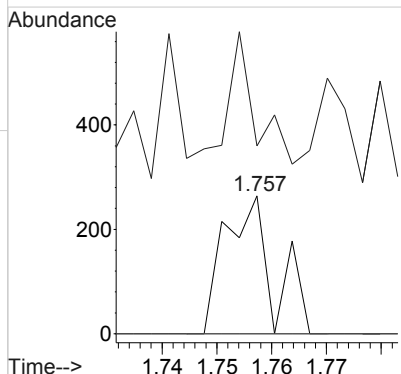
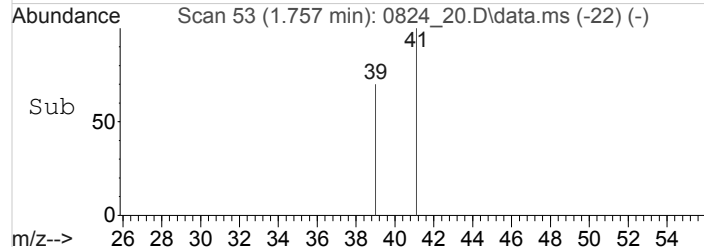




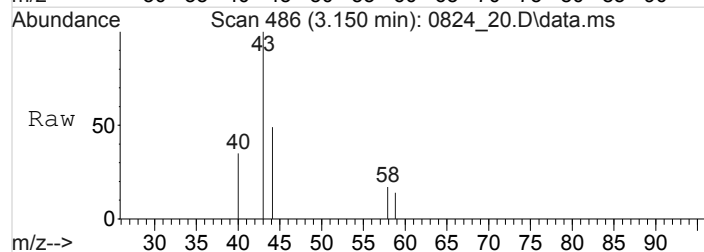
#4
PROPENE
Concen: 1.2792249 ppb
RT: 1.757 min Scan# 53
Delta R.T. 0.004 min
Lab File: 0824_20.D
Acq: 24 Aug 2020 12:21 pm



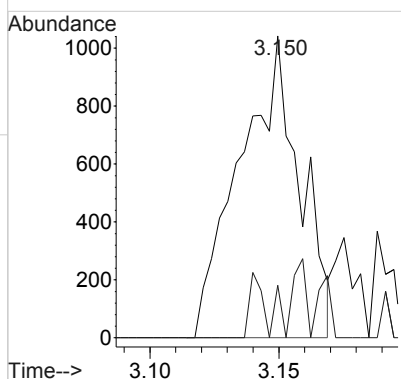
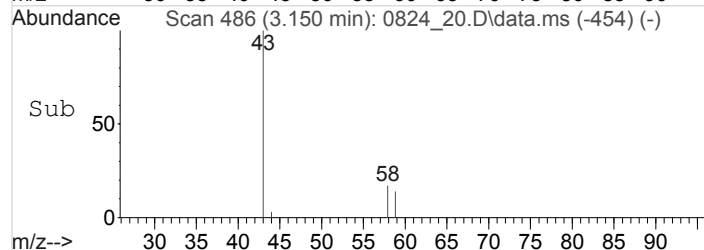
Tgt Ion: 41 Resp: 162
Ion Ratio Lower Upper
41 100
40 0.0 8.7 13.1#
42 0.0 55.2 82.8#

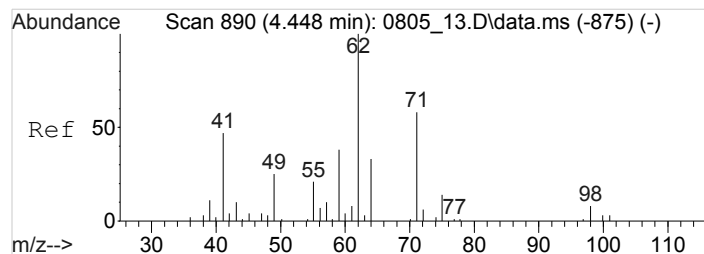


#19
ACETONE
Concen: 1.0048282 ppb
RT: 3.150 min Scan# 486
Delta R.T. 0.008 min
Lab File: 0824_20.D
Acq: 24 Aug 2020 12:21 pm

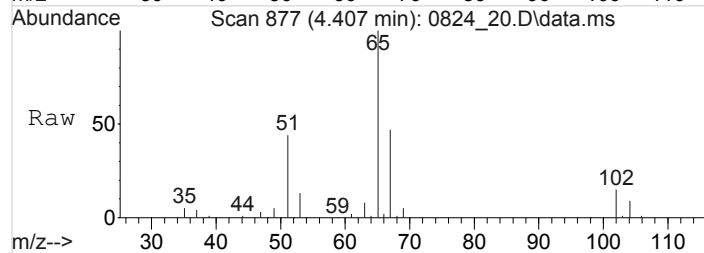


Tgt Ion: 43 Resp: 1678
Ion Ratio Lower Upper
43 100
58 0.0 25.2 37.8#

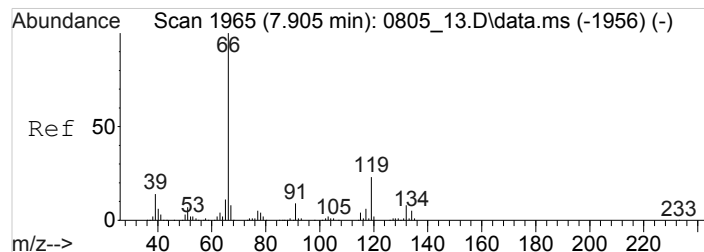
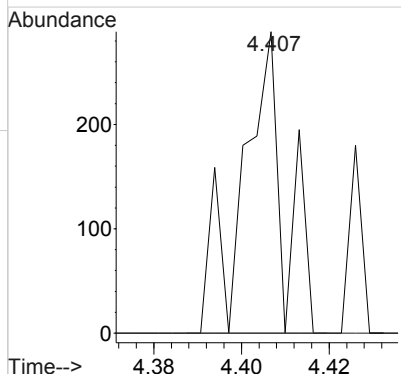
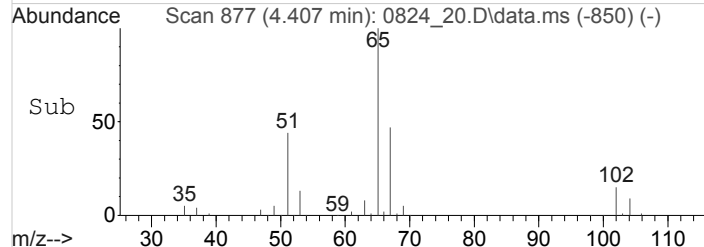




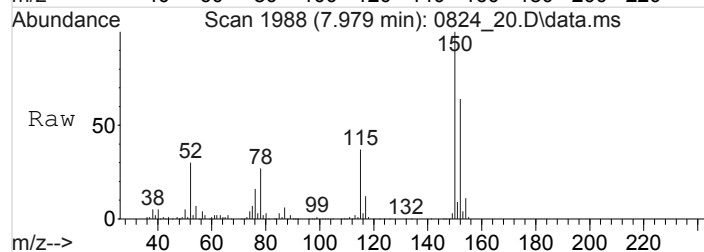
#50
T-AMYL ALCOHOL
Concen: 0.1704368 ppb
RT: 4.407 min Scan# 877
Delta R.T. -0.042 min
Lab File: 0824_20.D
Acq: 24 Aug 2020 12:21 pm



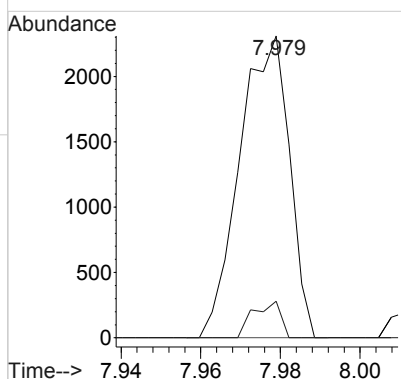
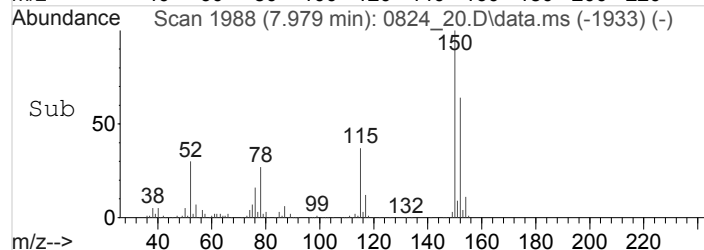
Tgt Ion: 59 Resp: 195
Ion Ratio Lower Upper
59 100
73 0.0 17.8 26.8#

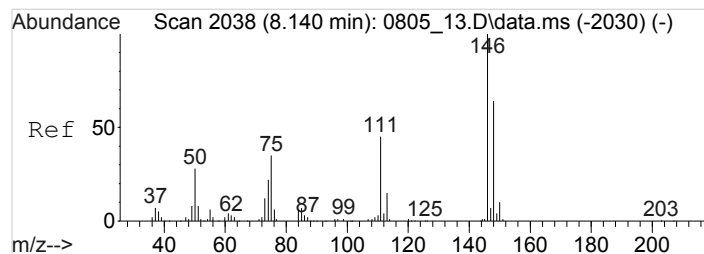


#96
DICYCLOPENTADIENE
Concen: 0.1068187 ppb
RT: 7.979 min Scan# 1988
Delta R.T. 0.074 min
Lab File: 0824_20.D
Acq: 24 Aug 2020 12:21 pm

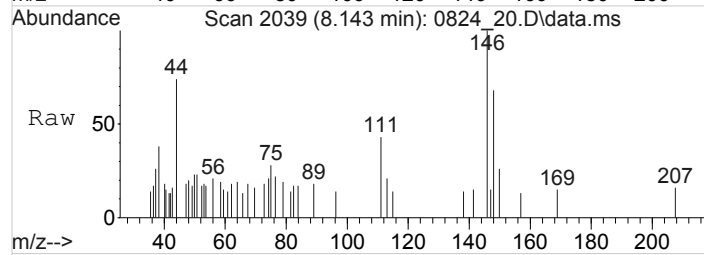


Tgt Ion: 66 Resp: 2000
Ion Ratio Lower Upper
66 100
132 0.0 7.3 10.9#

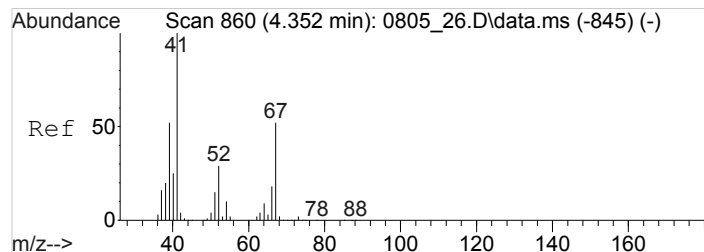
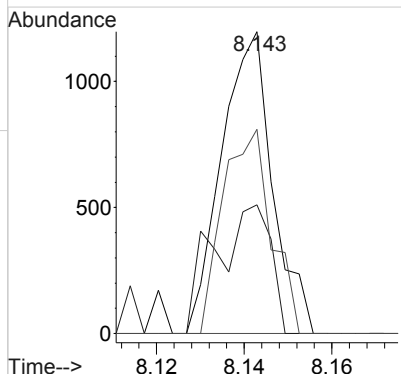
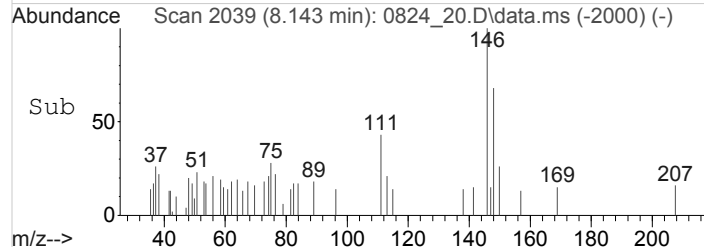




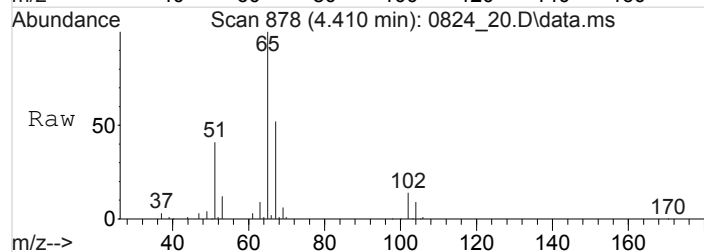
#99
1,2-DICHLOROBENZENE
Concen: 0.1644342 ppb
RT: 8.143 min Scan# 2039
Delta R.T. 0.003 min
Lab File: 0824_20.D
Acq: 24 Aug 2020 12:21 pm



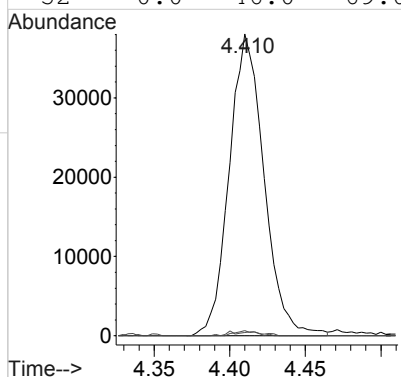
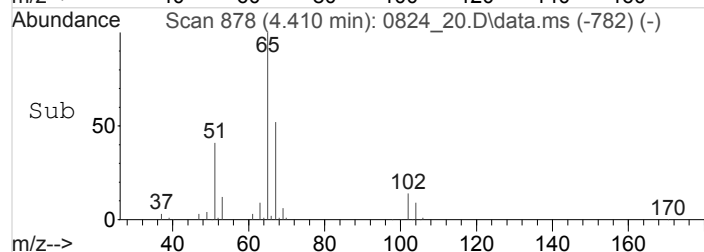
Tgt Ion: 146 Resp: 967
Ion Ratio Lower Upper
146 100
111 46.9 37.6 56.4
148 64.3 51.9 77.9

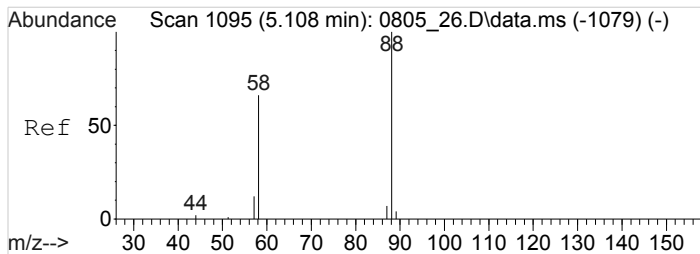


#116
METHACRYLONITRILE
Concen: 15.4923655 ppb
RT: 4.410 min Scan# 878
Delta R.T. 0.058 min
Lab File: 0824_20.D
Acq: 24 Aug 2020 12:21 pm

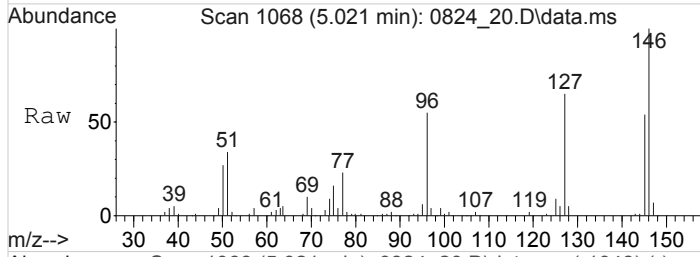


Tgt Ion: 67 Resp: 60796
Ion Ratio Lower Upper
67 100
41 0.0 190.2 285.4#
39 1.2 94.1 141.1#
52 0.0 46.0 69.0#

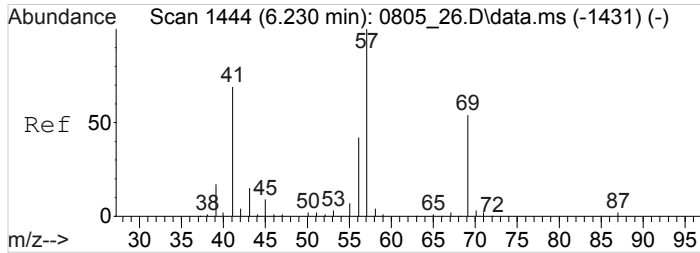
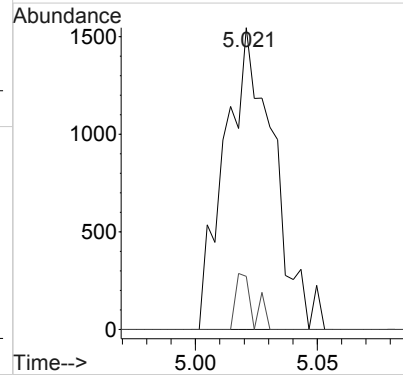
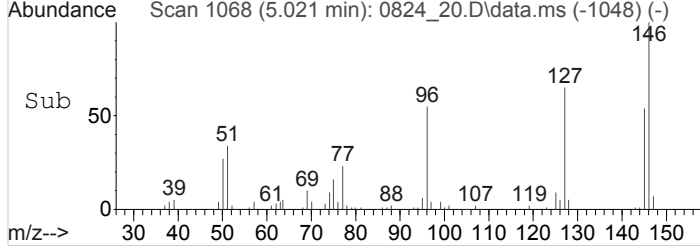




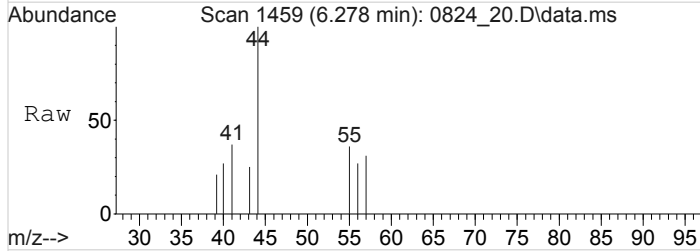
#121
1,4-DIOXANE
Concen: 73.0415300 ppb
RT: 5.021 min Scan# 1068
Delta R.T. -0.087 min
Lab File: 0824_20.D
Acq: 24 Aug 2020 12:21 pm



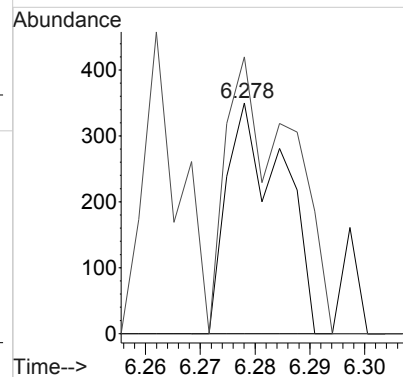
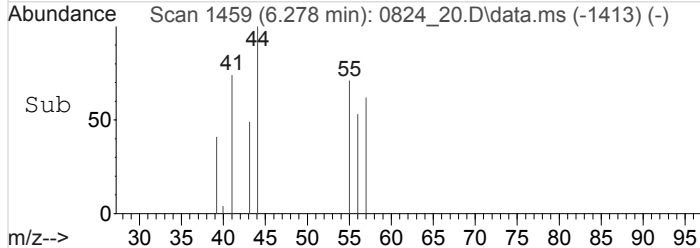
Tgt Ion: 88 Resp: 2144
Ion Ratio Lower Upper
88 100
58 0.0 51.8 77.8#
43 0.0 10.7 16.1#

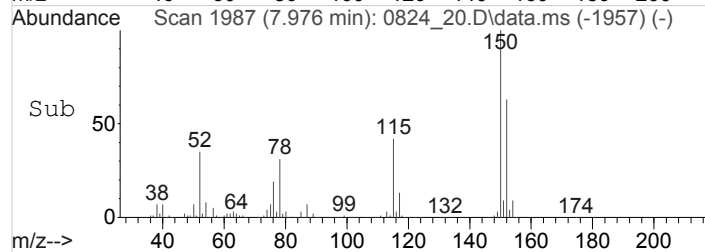
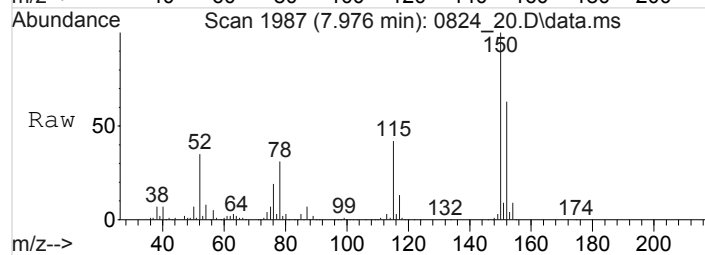
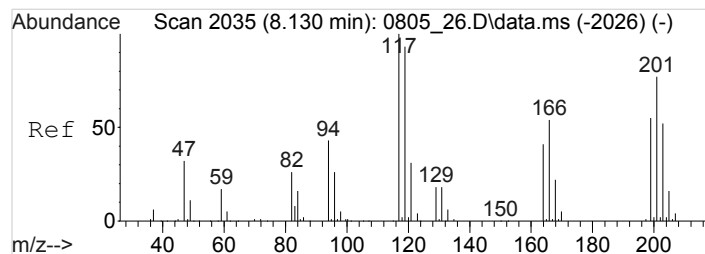


#125
3,3-DIMETHYL-1-BUTANOL
Concen: 0.1999293 ppb
RT: 6.278 min Scan# 1459
Delta R.T. 0.048 min
Lab File: 0824_20.D
Acq: 24 Aug 2020 12:21 pm



Tgt Ion: 57 Resp: 249
Ion Ratio Lower Upper
57 100
69 0.0 44.4 66.6#
41 137.8 58.6 88.0#





#131

HEXACHLOROETHANE

Concen: 5.3960100 ppb

RT: 7.976 min Scan# 1987

Delta R.T. -0.154 min

Lab File: 0824_20.D

Acq: 24 Aug 2020 12:21 pm

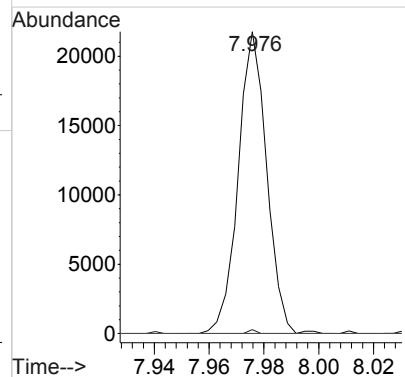
Tgt Ion: 117 Resp: 15733

Ion Ratio Lower Upper

117 100

119 0.0 74.1 111.1#

94 0.0 33.4 50.0#



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-07S

Lab Sample ID: L1253445-08
Client Sample ID: MW-07S
Lab File ID: 0824_21
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 11:46
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 12:41
Analysis Date/Time: 08/24/20 12:41
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	3.13	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	4.34	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	3.56	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253445-08
Client Sample ID: MW-07S
Lab File ID: 0824_21
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 11:46
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 12:41
Analysis Date/Time: 08/24/20 12:41
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_21.D
 Acq On : 24 Aug 2020 12:41 pm
 Operator : 859
 Sample : L1253445-08 1x WG1531200
 Misc : water
 ALS Vial : 21 Sample Multiplier: 1
 InstName : VOCMS38

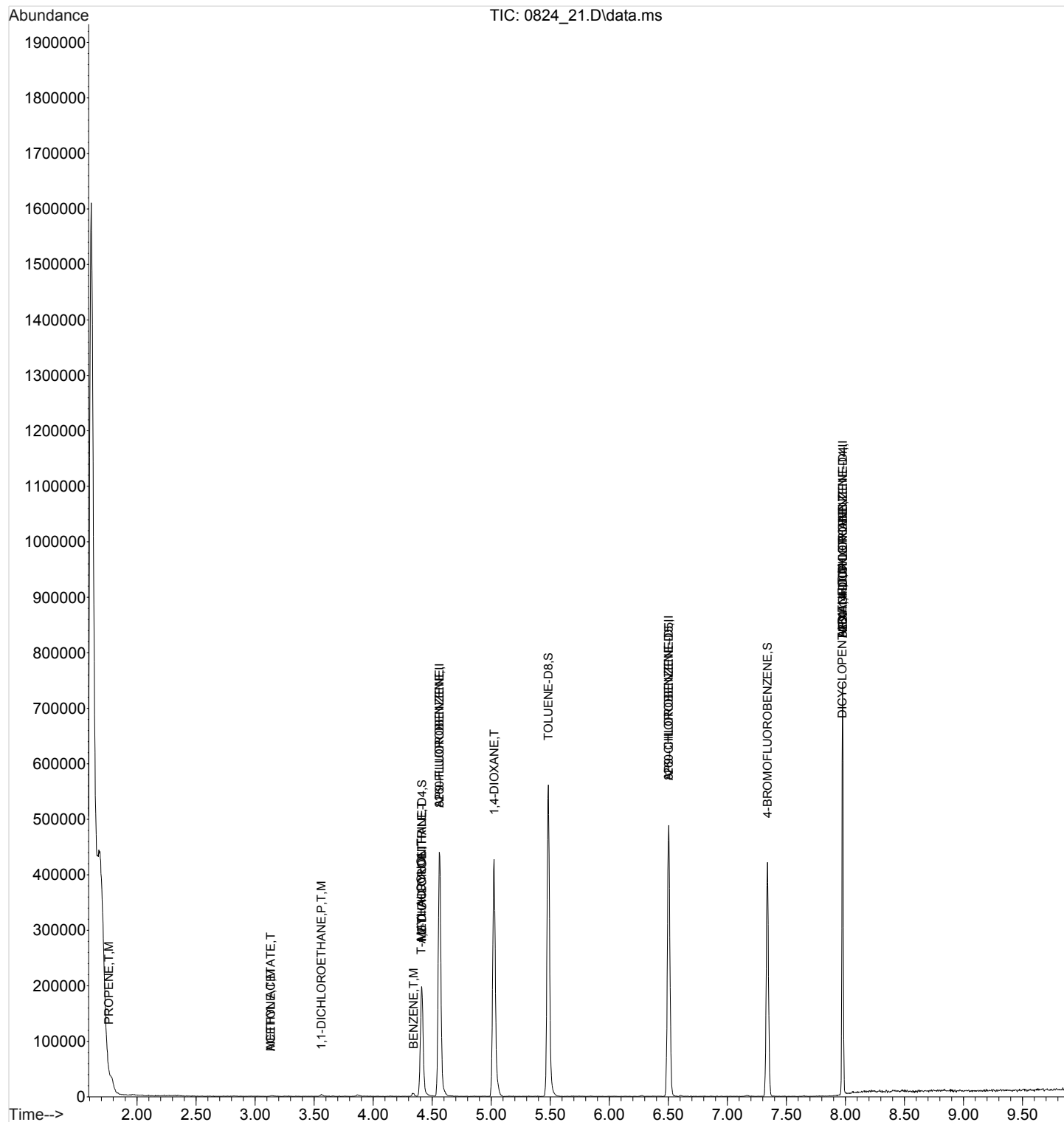
Quant Time: Aug 26 21:42:58 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

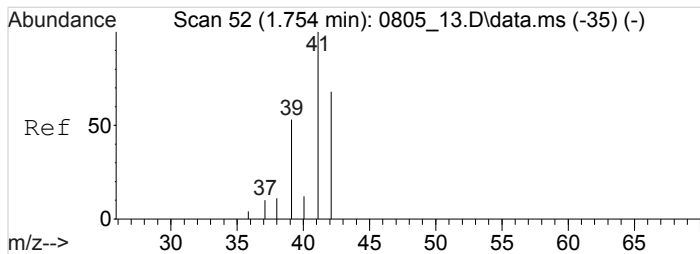
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	292724	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.503	82	131953	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.976	152	81281	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.561	96	292656	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.503	82	131953	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.976	152	81281	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.413	65	126449	17.5233207	ppb	0.00
Spiked Amount 16.000			Recovery	= 109.52%		
61) TOLUENE-D8	5.484	98	287334	17.2000682	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	= 107.50%		
80) 4-BROMOFLUOROBENZENE	7.339	95	106197	15.4914394	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	= 96.82%		
Target Compounds						Qvalue
4) PROPENE	1.760	41	156	1.2775685	ppb #	1
19) ACETONE	3.133	43	557	0.3325074	ppb #	49
24) METHYL ACETATE	3.133	43	557	0.0932439	ppb #	62
30) 1,1-DICHLOROETHANE	3.561	63	3045	0.3027769	ppb #	76
46) BENZENE	4.342	78	3500	0.1896760	ppb #	89
50) T-AMYL ALCOHOL	4.407	59	295	0.2570378	ppb #	53
96) DICYCLOPENTADIENE	7.972	66	1954	0.1023731	ppb	97
116) METHACRYLONITRILE	4.410	67	60165	15.2874078	ppb #	1
121) 1,4-DIOXANE	5.024	88	2154	73.1708302	ppb #	31
131) HEXACHLOROETHANE	7.976	117	16221	5.4573581	ppb #	13

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

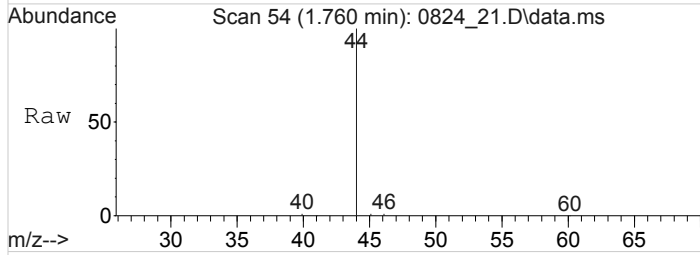
Data Path : C:\msdchem\1\data\082420\
Data File : 0824_21.D
Acq On : 24 Aug 2020 12:41 pm
Operator : 859
Sample : L1253445-08 1x WG1531200
Misc : water
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS38

Quant Time: Aug 26 21:42:58 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration

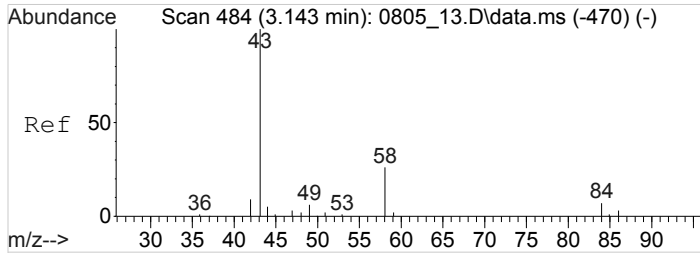
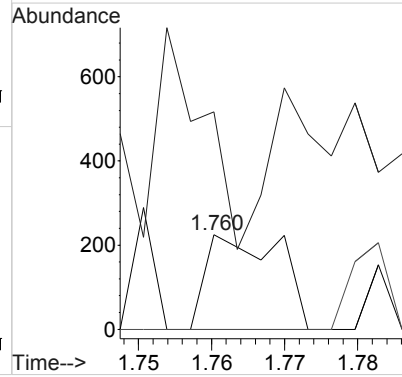
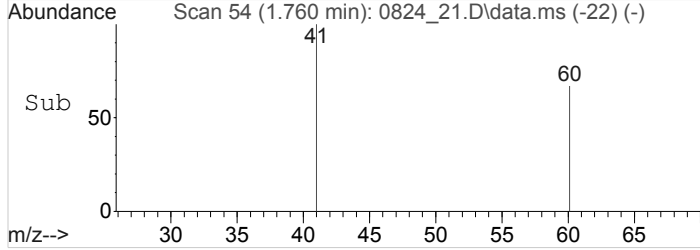




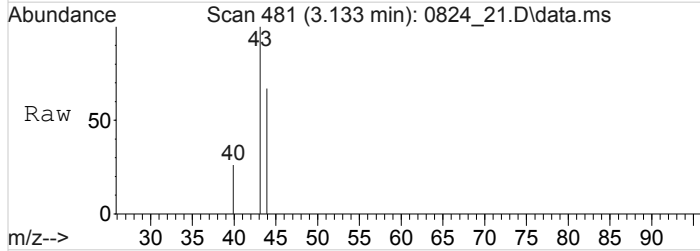
#4
PROPENE
Concen: 1.2775685 ppb
RT: 1.760 min Scan# 54
Delta R.T. 0.007 min
Lab File: 0824_21.D
Acq: 24 Aug 2020 12:41 pm



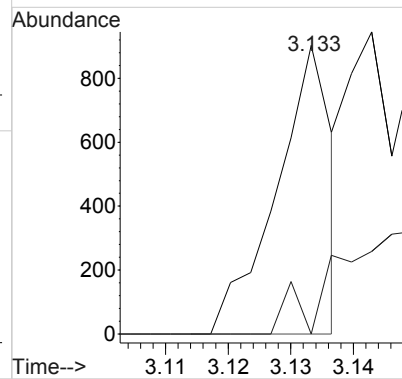
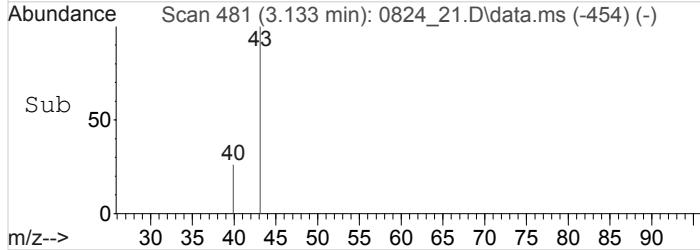
Tgt Ion: 41 Resp: 156
Ion Ratio Lower Upper
41 100
40 142.9 8.7 13.1#
42 0.0 55.2 82.8#

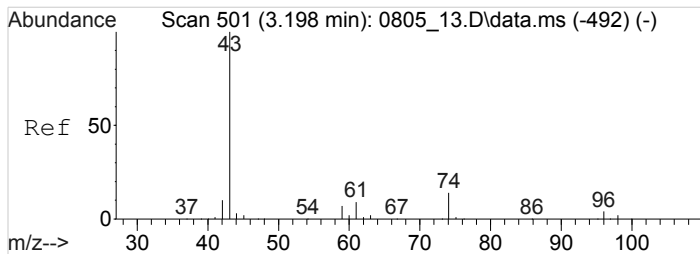


#19
ACETONE
Concen: 0.3325074 ppb
RT: 3.133 min Scan# 481
Delta R.T. -0.009 min
Lab File: 0824_21.D
Acq: 24 Aug 2020 12:41 pm



Tgt Ion: 43 Resp: 557
Ion Ratio Lower Upper
43 100
58 59.8 25.2 37.8#





#24

METHYL ACETATE

Concen: 0.0932439 ppb

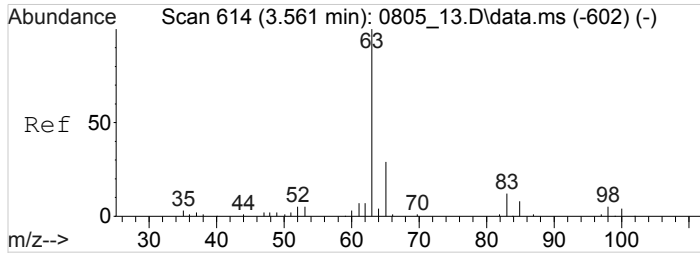
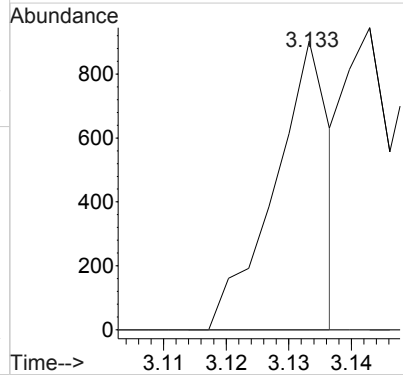
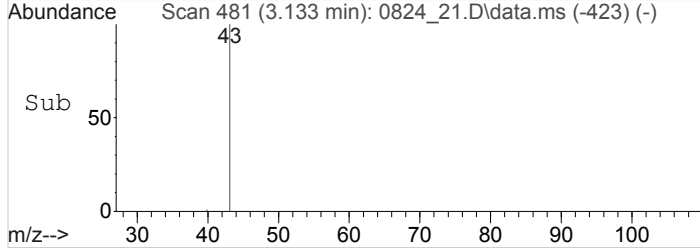
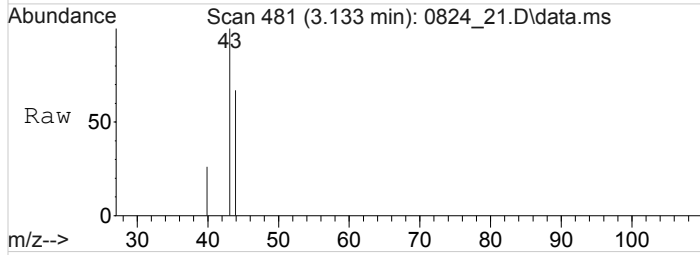
RT: 3.133 min Scan# 481

Delta R.T. -0.064 min

Lab File: 0824_21.D

Acq: 24 Aug 2020 12:41 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
74	0.0	12.7	19.1#
29	0.0	0.0	0.0



#30

1,1-DICHLOROETHANE

Concen: 0.3027769 ppb

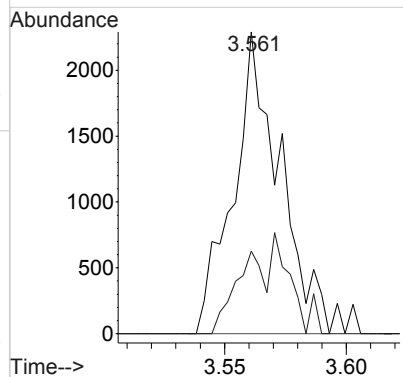
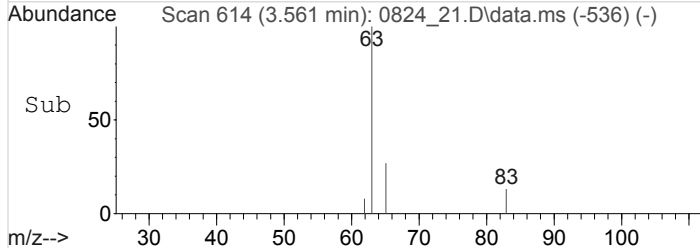
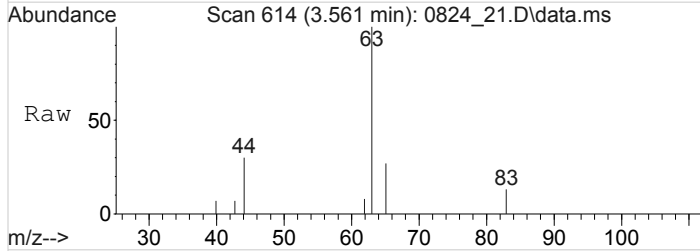
RT: 3.561 min Scan# 614

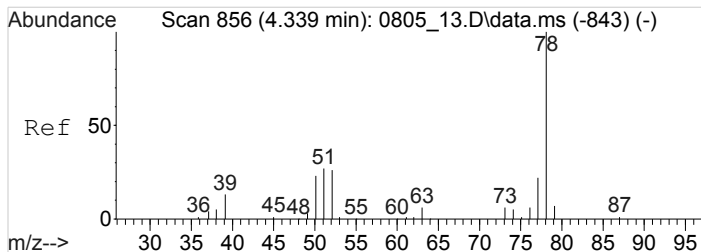
Delta R.T. -0.000 min

Lab File: 0824_21.D

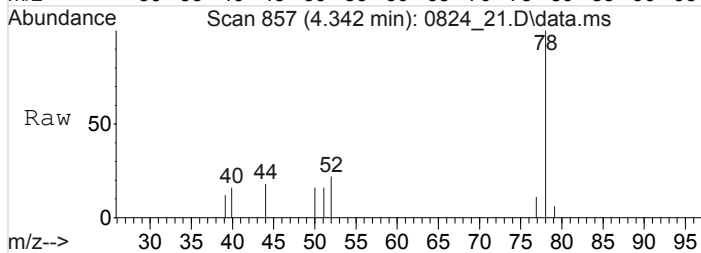
Acq: 24 Aug 2020 12:41 pm

Tgt Ion	Ratio	Lower	Upper
63	100		
65	17.1	23.9	35.9#

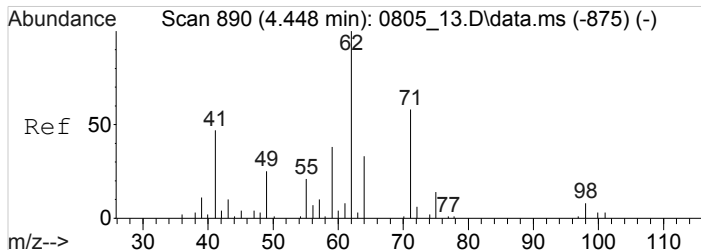
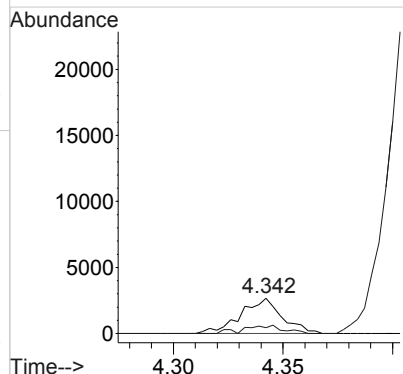
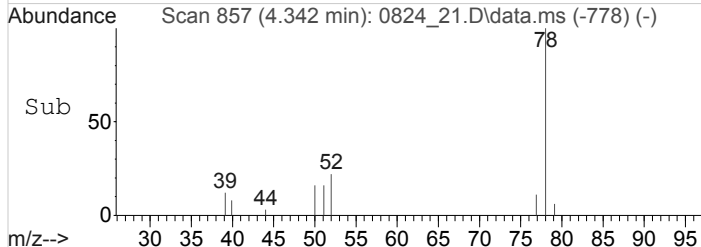




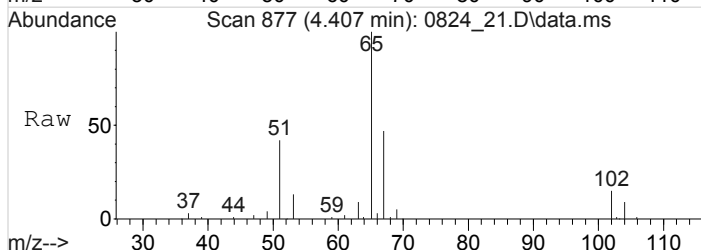
#46
 BENZENE
 Concen: 0.1896760 ppb
 RT: 4.342 min Scan# 857
 Delta R.T. 0.003 min
 Lab File: 0824_21.D
 Acq: 24 Aug 2020 12:41 pm



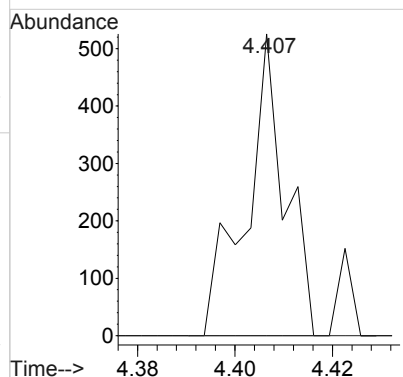
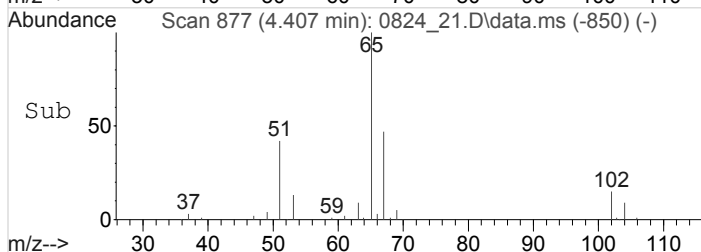
Tgt Ion: 78 Resp: 3500
 Ion Ratio Lower Upper
 78 100
 51 18.9 19.3 28.9#

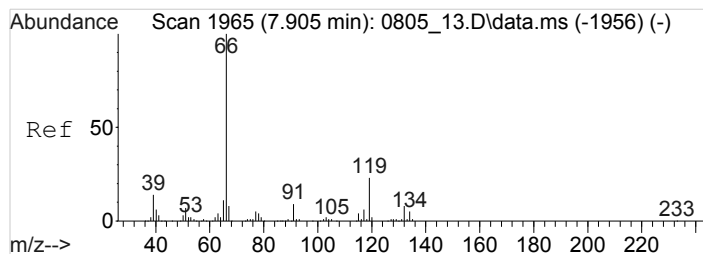


#50
 T-AMYL ALCOHOL
 Concen: 0.2570378 ppb
 RT: 4.407 min Scan# 877
 Delta R.T. -0.042 min
 Lab File: 0824_21.D
 Acq: 24 Aug 2020 12:41 pm



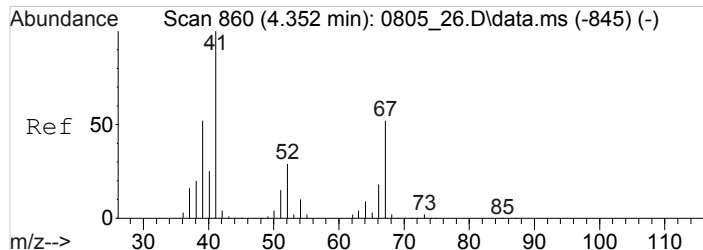
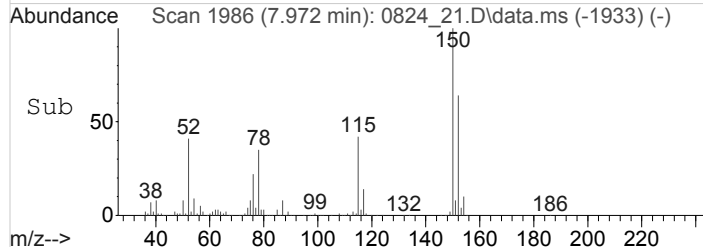
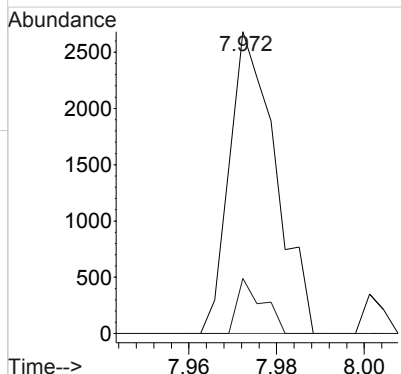
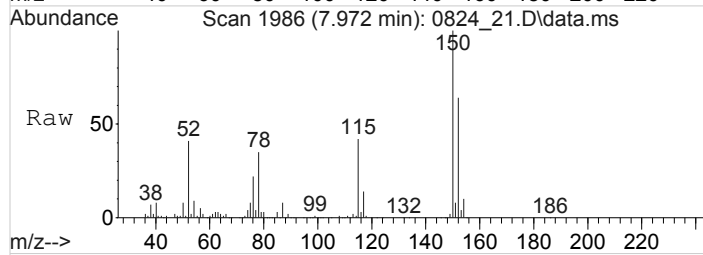
Tgt Ion: 59 Resp: 295
 Ion Ratio Lower Upper
 59 100
 73 0.0 17.8 26.8#





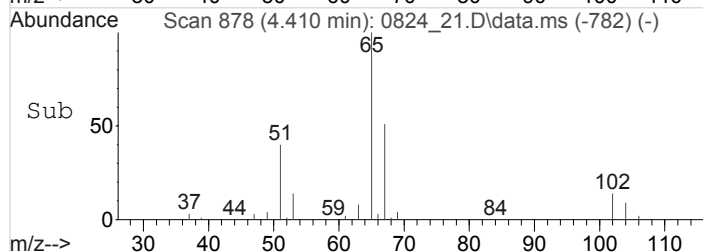
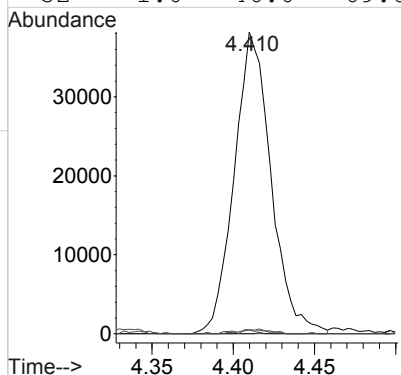
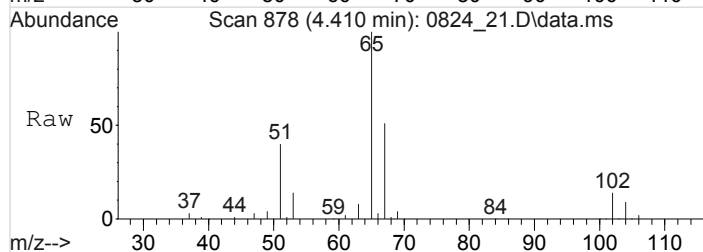
#96
 DICYCLOPENTADIENE
 Concen: 0.1023731 ppb
 RT: 7.972 min Scan# 1986
 Delta R.T. 0.067 min
 Lab File: 0824_21.D
 Acq: 24 Aug 2020 12:41 pm

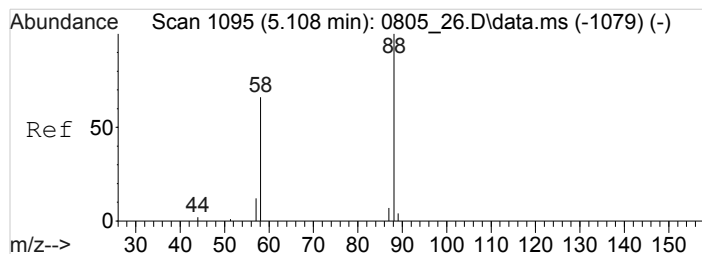
Tgt Ion: 66 Resp: 1954
 Ion Ratio Lower Upper
 66 100
 132 10.2 7.3 10.9



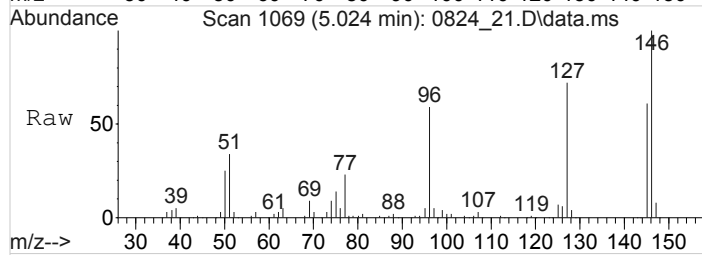
#116
 METHACRYLONITRILE
 Concen: 15.2874078 ppb
 RT: 4.410 min Scan# 878
 Delta R.T. 0.058 min
 Lab File: 0824_21.D
 Acq: 24 Aug 2020 12:41 pm

Tgt Ion: 67 Resp: 60165
 Ion Ratio Lower Upper
 67 100
 41 0.0 190.2 285.4#
 39 1.1 94.1 141.1#
 52 1.0 46.0 69.0#

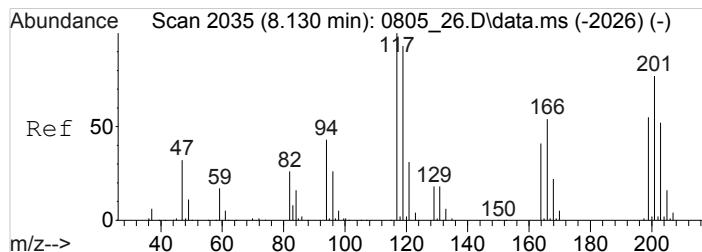
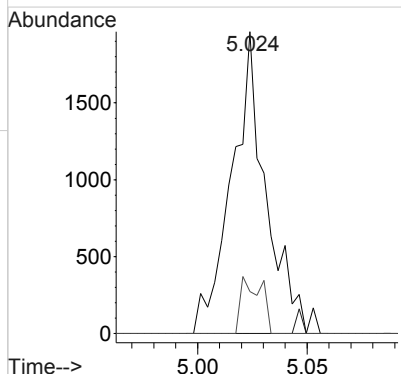
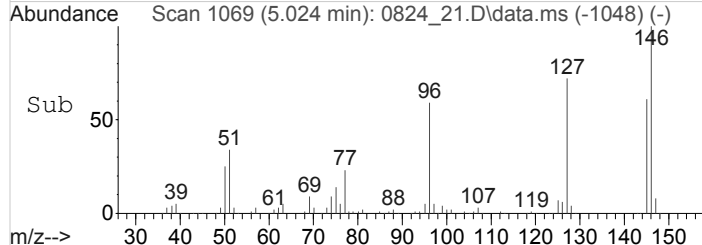




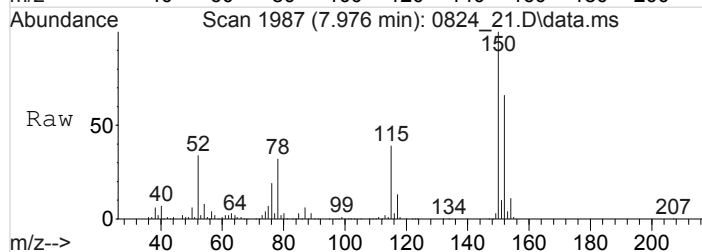
#121
1,4-DIOXANE
Concen: 73.1708302 ppb
RT: 5.024 min Scan# 1069
Delta R.T. -0.084 min
Lab File: 0824_21.D
Acq: 24 Aug 2020 12:41 pm



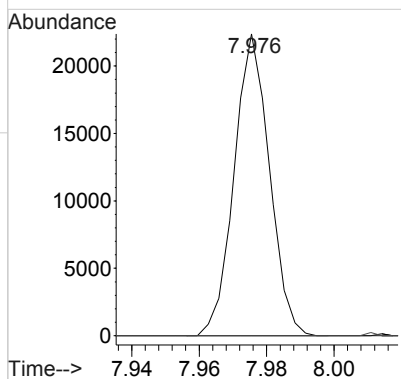
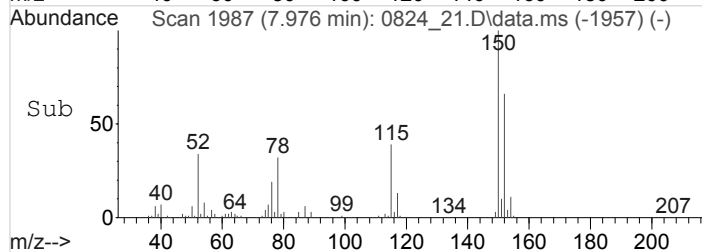
Tgt Ion: 88 Resp: 2154
Ion Ratio Lower Upper
88 100
58 0.0 51.8 77.8#
43 11.1 10.7 16.1



#131
HEXACHLOROETHANE
Concen: 5.4573581 ppb
RT: 7.976 min Scan# 1987
Delta R.T. -0.154 min
Lab File: 0824_21.D
Acq: 24 Aug 2020 12:41 pm



Tgt Ion: 117 Resp: 16221
Ion Ratio Lower Upper
117 100
119 0.0 74.1 111.1#
94 0.0 33.4 50.0#



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-07I

Lab Sample ID: L1253445-09
Client Sample ID: MW-07I
Lab File ID: 0824_22
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 11:11
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 13:00
Analysis Date/Time: 08/24/20 13:00
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	3.14	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	4.34	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253445-09
Client Sample ID: MW-07I
Lab File ID: 0824_22
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 11:11
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 13:00
Analysis Date/Time: 08/24/20 13:00
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	5.53	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_22.D
 Acq On : 24 Aug 2020 1:00 pm
 Operator : 859
 Sample : L1253445-09 1x WG1531200
 Misc : water
 ALS Vial : 22 Sample Multiplier: 1
 InstName : VOCMS38

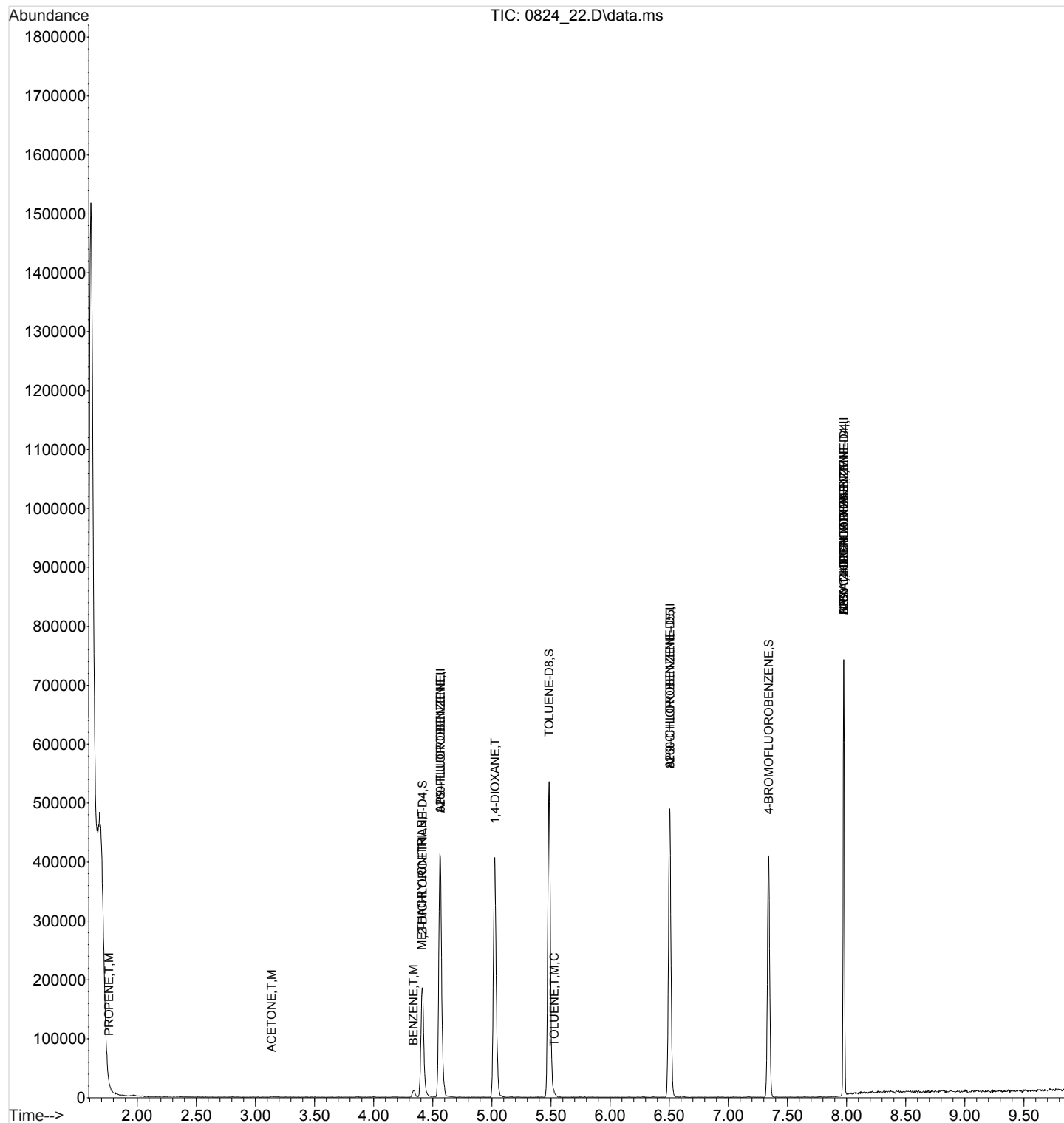
Quant Time: Aug 26 21:43:15 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

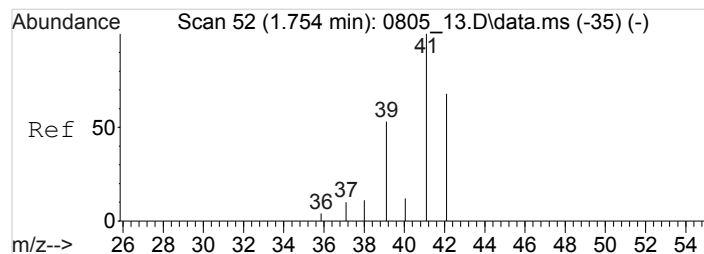
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.564	96	286906	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.506	82	129856	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.976	152	77725	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.564	96	286906	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.506	82	129856	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.976	152	77725	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.413	65	123936	17.5233520	ppb	0.00
Spiked Amount 16.000			Recovery	= 109.52%		
61) TOLUENE-D8	5.484	98	286311	17.4155996	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	= 108.85%		
80) 4-BROMOFLUOROBENZENE	7.342	95	104139	15.4365476	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	= 96.48%		
Target Compounds					Qvalue	
4) PROPENE	1.760	41	175	1.2833096	ppb #	1
19) ACETONE	3.137	43	931	0.5670411	ppb #	72
46) BENZENE	4.336	78	7706	0.4260809	ppb	100
62) TOLUENE	5.526	91	3365m	0.1889796	ppb	
96) DICYCLOPENTADIENE	7.976	66	2147	0.1176309	ppb	99
116) METHACRYLONITRILE	4.407	67	59401	15.3957726	ppb #	1
121) 1,4-DIOXANE	5.027	88	2230	77.2707181	ppb #	30
131) HEXACHLOROETHANE	7.976	117	15546	5.4695525	ppb #	13

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

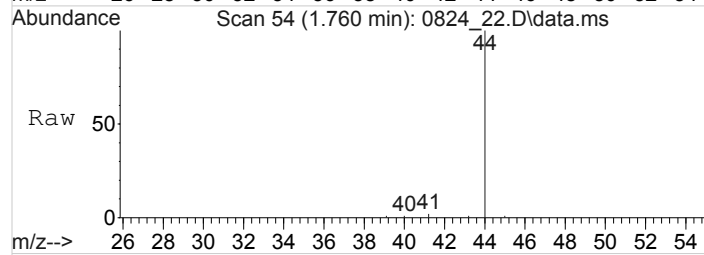
Data Path : C:\msdchem\1\data\082420\
Data File : 0824_22.D
Acq On : 24 Aug 2020 1:00 pm
Operator : 859
Sample : L1253445-09 1x WG1531200
Misc : water
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS38

Quant Time: Aug 26 21:43:15 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration

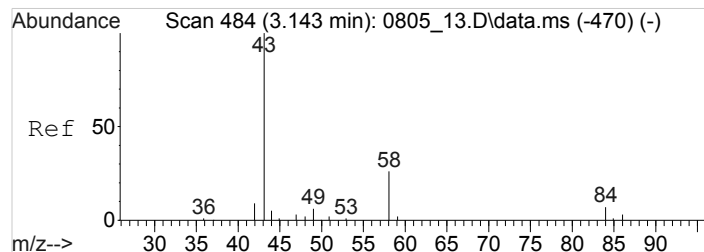
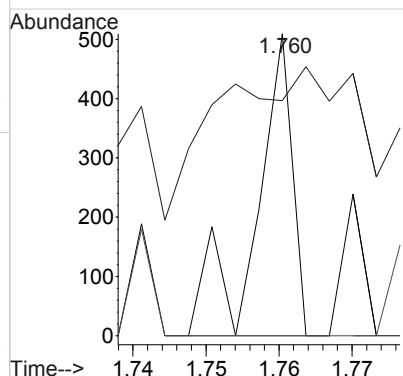
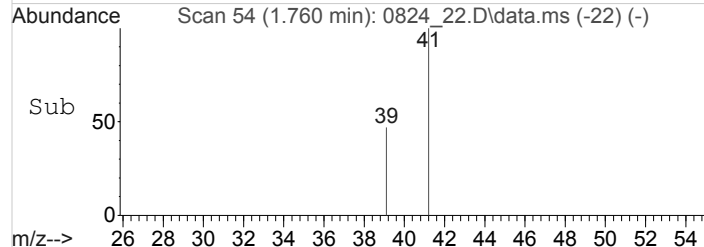




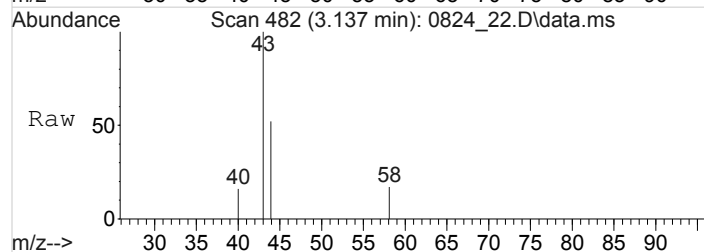
#4
PROPENE
Concen: 1.2833096 ppb
RT: 1.760 min Scan# 54
Delta R.T. 0.007 min
Lab File: 0824_22.D
Acq: 24 Aug 2020 1:00 pm



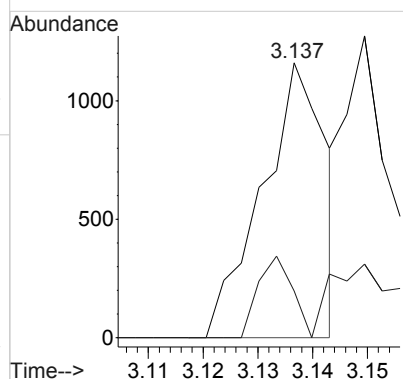
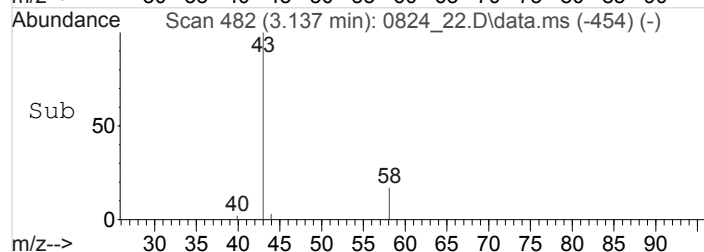
Tgt Ion: 41 Resp: 175
Ion Ratio Lower Upper
41 100
40 191.4 8.7 13.1#
42 0.0 55.2 82.8#

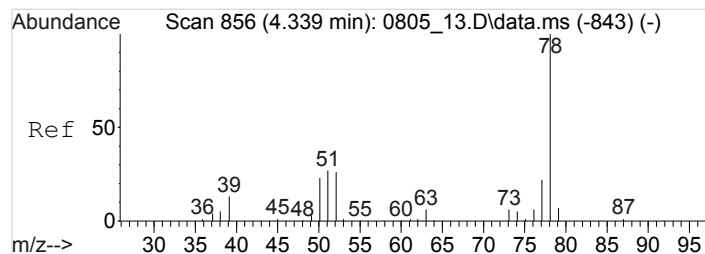


#19
ACETONE
Concen: 0.5670411 ppb
RT: 3.137 min Scan# 482
Delta R.T. -0.005 min
Lab File: 0824_22.D
Acq: 24 Aug 2020 1:00 pm



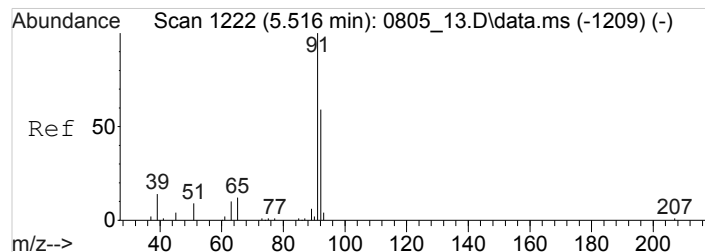
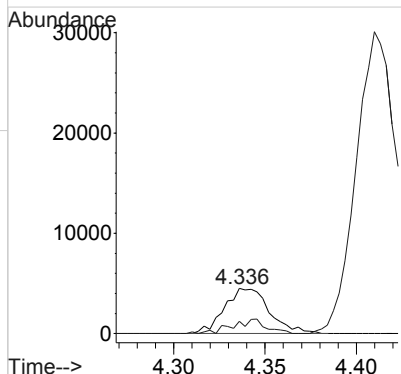
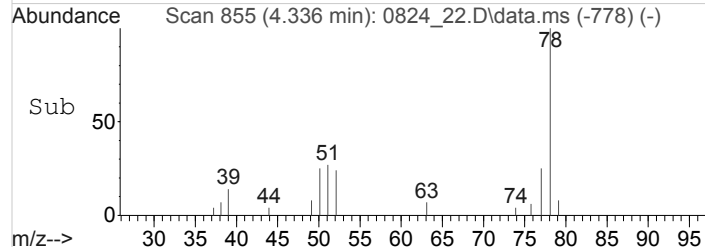
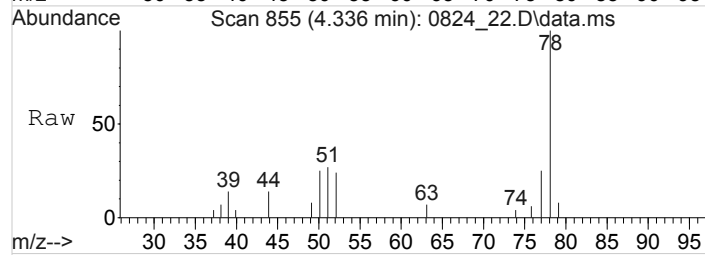
Tgt Ion: 43 Resp: 931
Ion Ratio Lower Upper
43 100
58 16.2 25.2 37.8#





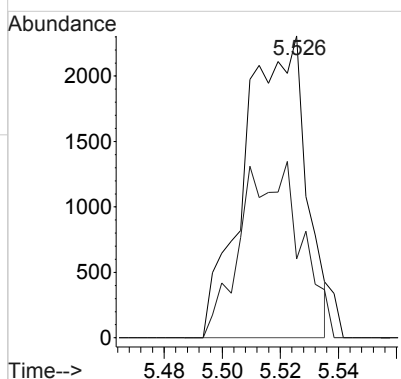
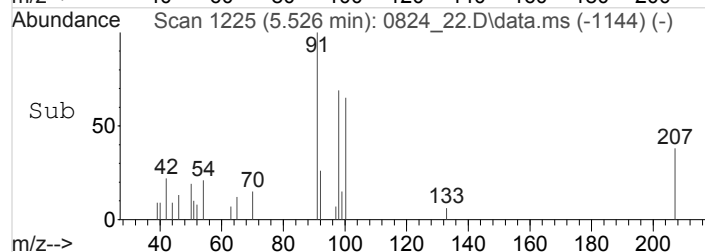
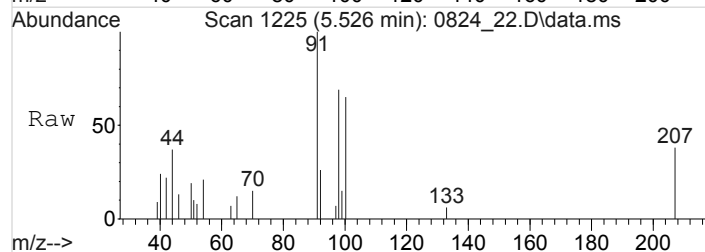
#46
 BENZENE
 Concen: 0.4260809 ppb
 RT: 4.336 min Scan# 855
 Delta R.T. -0.003 min
 Lab File: 0824_22.D
 Acq: 24 Aug 2020 1:00 pm

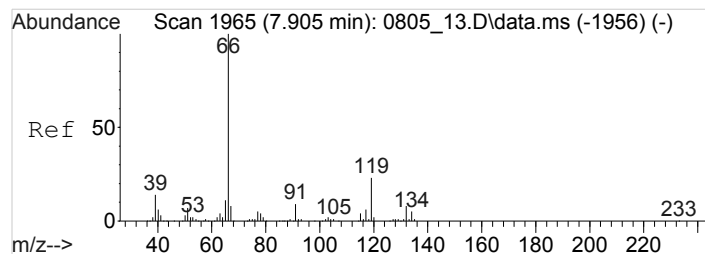
Tgt Ion: 78 Resp: 7706
 Ion Ratio Lower Upper
 78 100
 51 24.2 19.3 28.9



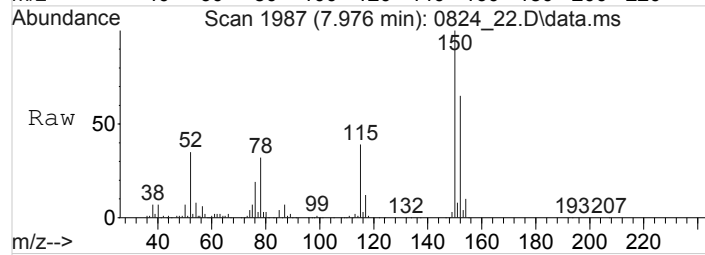
#62
 TOLUENE
 Concen: 0.1889796 ppb m
 RT: 5.526 min Scan# 1225
 Delta R.T. 0.010 min
 Lab File: 0824_22.D
 Acq: 24 Aug 2020 1:00 pm

Tgt Ion: 91 Resp: 3365
 Ion Ratio Lower Upper
 91 100
 92 56.5 47.3 70.9

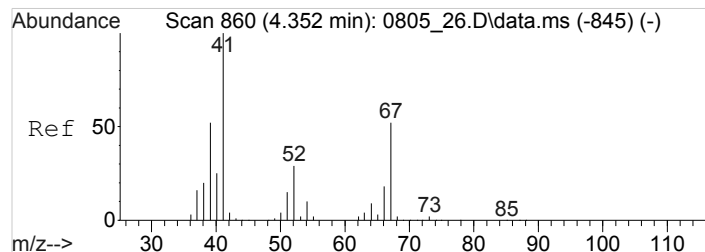
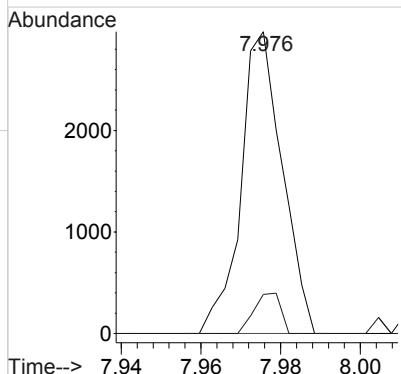
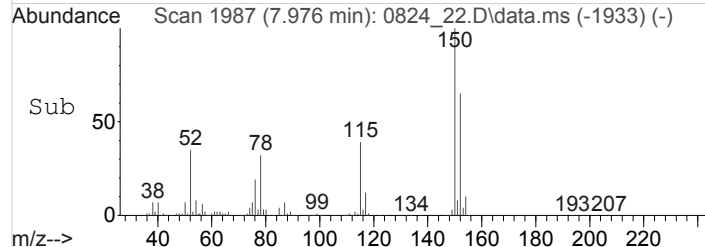




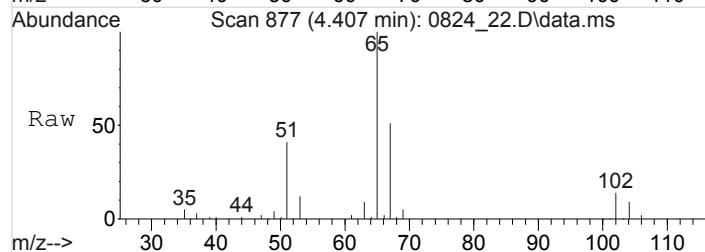
#96
 DICYCLOPENTADIENE
 Concen: 0.1176309 ppb
 RT: 7.976 min Scan# 1987
 Delta R.T. 0.071 min
 Lab File: 0824_22.D
 Acq: 24 Aug 2020 1:00 pm



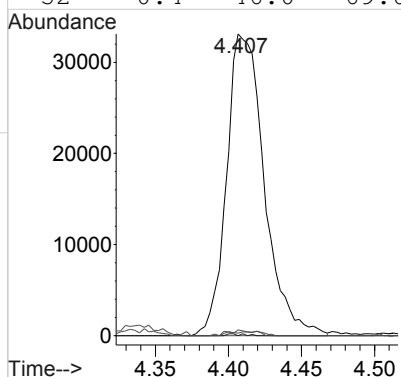
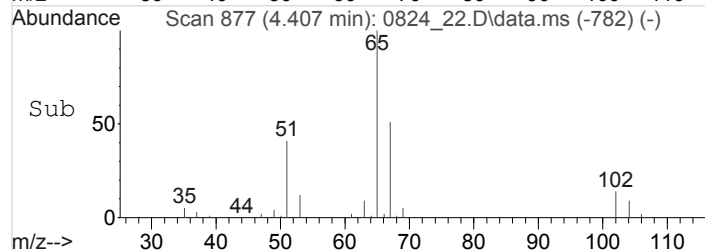
Tgt Ion: 66 Resp: 2147
 Ion Ratio Lower Upper
 66 100
 132 8.6 7.3 10.9

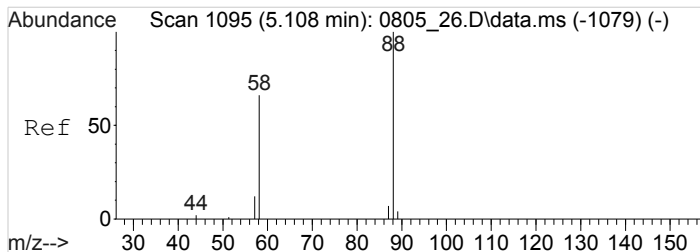


#116
 METHACRYLONITRILE
 Concen: 15.3957726 ppb
 RT: 4.407 min Scan# 877
 Delta R.T. 0.055 min
 Lab File: 0824_22.D
 Acq: 24 Aug 2020 1:00 pm

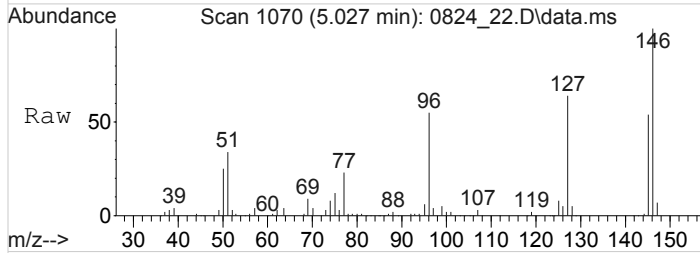


Tgt Ion: 67 Resp: 59401
 Ion Ratio Lower Upper
 67 100
 41 0.0 190.2 285.4#
 39 1.4 94.1 141.1#
 52 0.4 46.0 69.0#

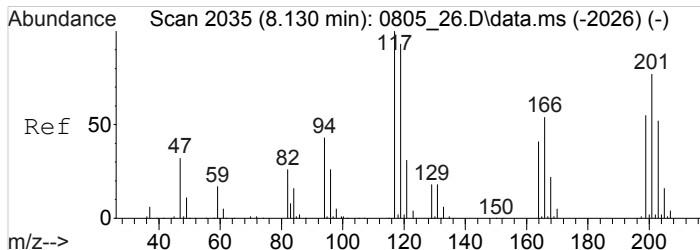
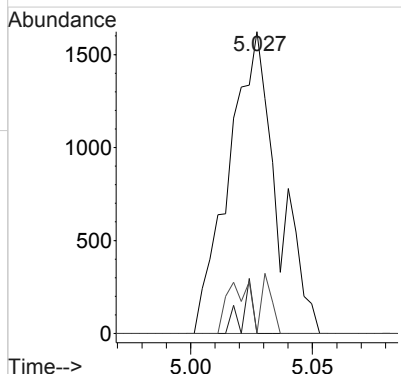
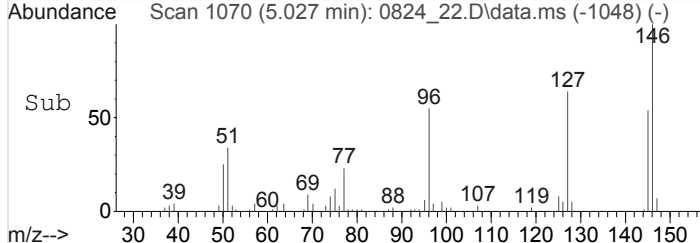




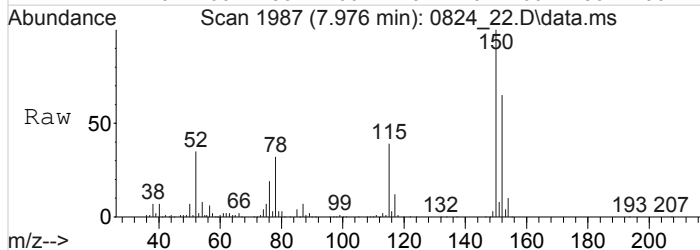
#121
1,4-DIOXANE
Concen: 77.2707181 ppb
RT: 5.027 min Scan# 1070
Delta R.T. -0.080 min
Lab File: 0824_22.D
Acq: 24 Aug 2020 1:00 pm



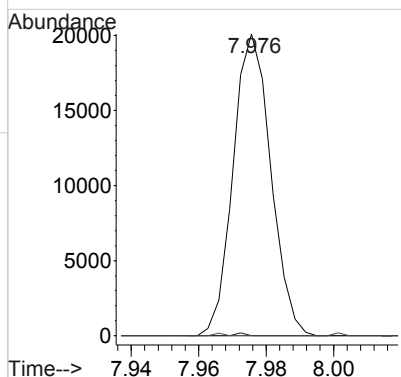
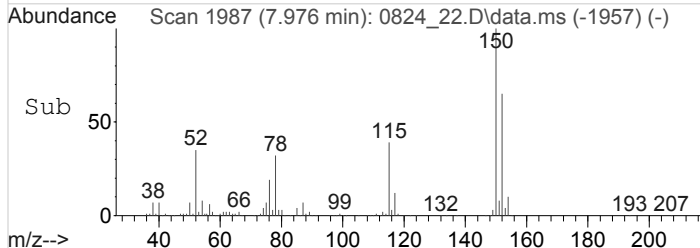
Tgt Ion: 88 Resp: 2230
Ion Ratio Lower Upper
88 100
58 0.0 51.8 77.8#
43 8.0 10.7 16.1#



#131
HEXACHLOROETHANE
Concen: 5.4695525 ppb
RT: 7.976 min Scan# 1987
Delta R.T. -0.154 min
Lab File: 0824_22.D
Acq: 24 Aug 2020 1:00 pm



Tgt Ion: 117 Resp: 15546
Ion Ratio Lower Upper
117 100
119 0.0 74.1 111.1#
94 0.0 33.4 50.0#



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-06SR

Lab Sample ID: L1253445-10
Client Sample ID: MW-06SR
Lab File ID: 0824_44
Instrument ID: VOCMS35
Analytical Batch: WG1531305
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/20/20 11:17
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 15:57
Analysis Date/Time: 08/24/20 15:57
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	3.13	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	6.52	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	3.55	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253445-10
Client Sample ID: MW-06SR
Lab File ID: 0824_44
Instrument ID: VOCMS35
Analytical Batch: WG1531305
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/20/20 11:17
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 15:57
Analysis Date/Time: 08/24/20 15:57
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_44.D
 Acq On : 24 Aug 2020 3:57 pm
 Operator : 808
 Sample : L1253445-10 1x WG1531305
 Misc : water
 ALS Vial : 44 Sample Multiplier: 1
 InstName : VOCMS35

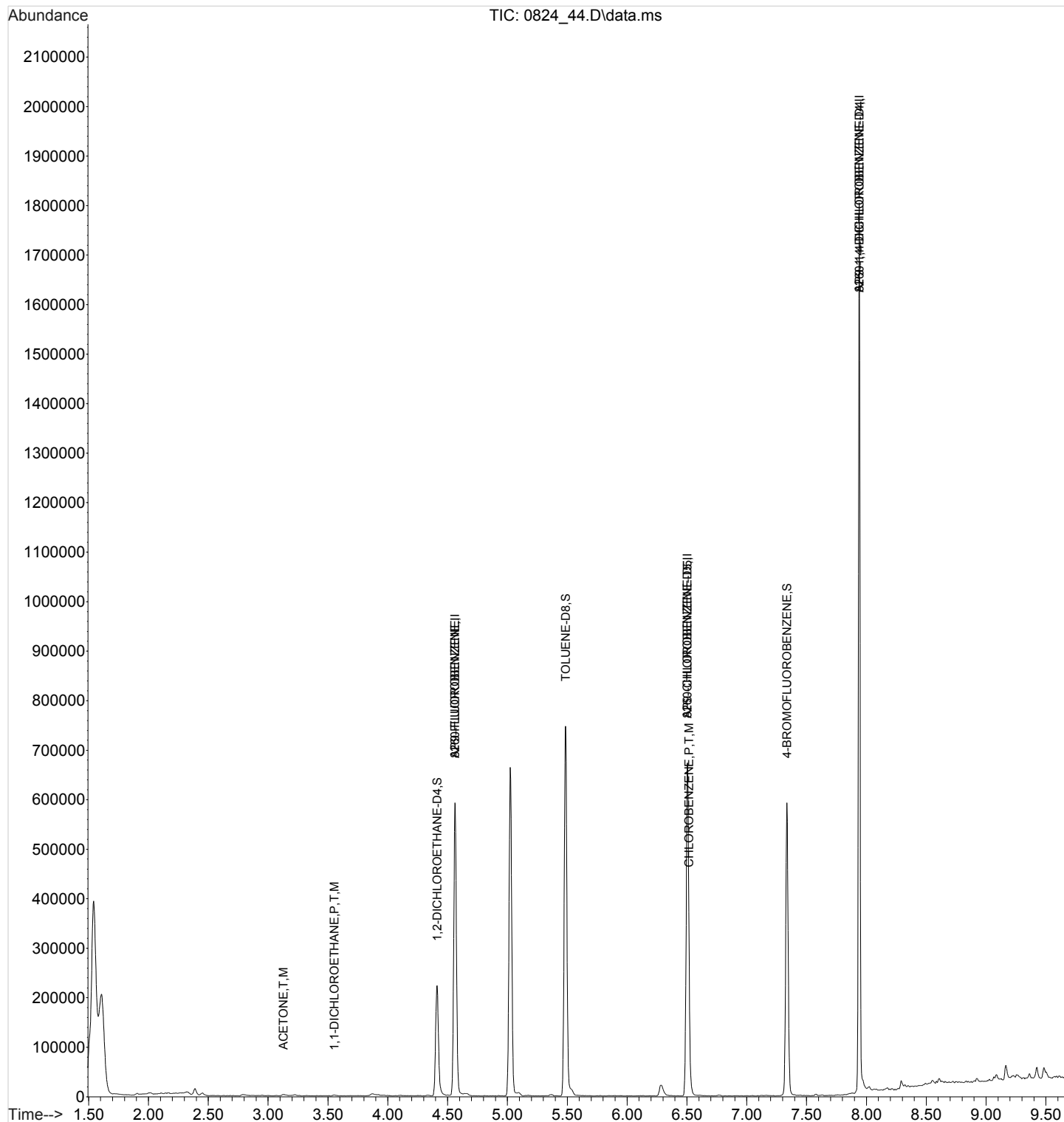
Quant Time: Aug 25 14:31:51 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:55:39 2020
 Response via : Initial Calibration

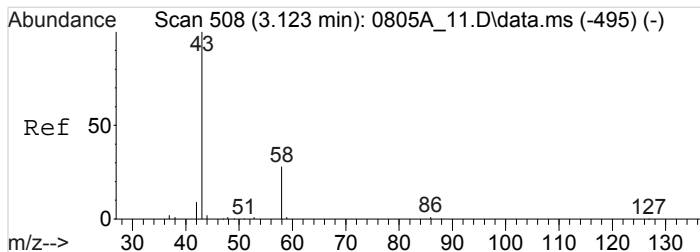
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	445339	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.503	82	173796	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.940	152	285309	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.561	96	445339	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.503	82	173796	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.940	152	285309	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.413	65	132932	14.8391082	ppb	0.00
Spiked Amount 16.000			Recovery	=	92.74%	
61) TOLUENE-D8	5.487	98	452167	16.9229027	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	105.77%	
80) 4-BROMOFLUOROBENZENE	7.336	95	149063	16.8427907	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	=	105.27%	
Target Compounds						
19) ACETONE	3.127	43	3804	1.4095957	ppb #	84
30) 1,1-DICHLOROETHANE	3.551	63	1731	0.1209912	ppb #	80
70) CHLOROBENZENE	6.516	112	2544	0.1137895	ppb #	6

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

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_44.D
Acq On : 24 Aug 2020 3:57 pm
Operator : 808
Sample : L1253445-10 1x WG1531305
Misc : water
ALS Vial : 44 Sample Multiplier: 1
InstName : VOCMS35

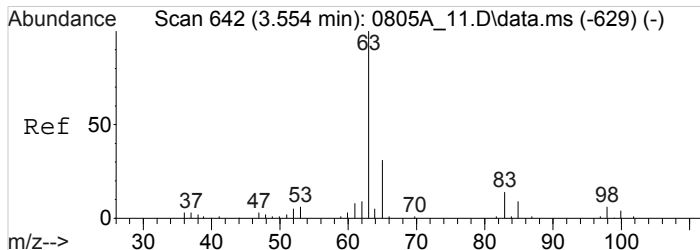
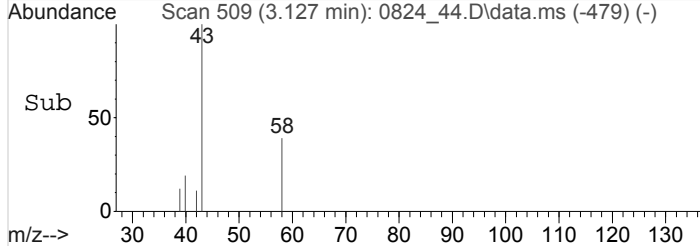
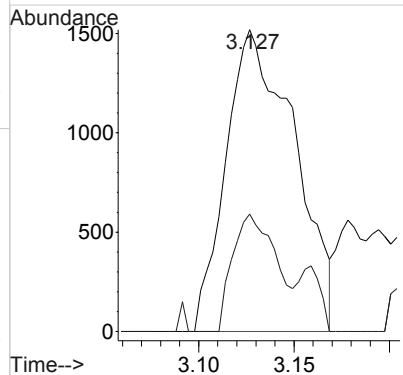
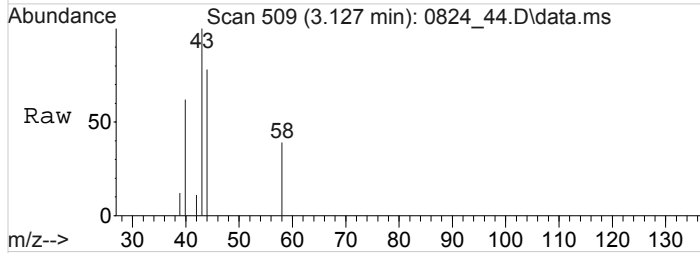
Quant Time: Aug 25 14:31:51 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:55:39 2020
Response via : Initial Calibration





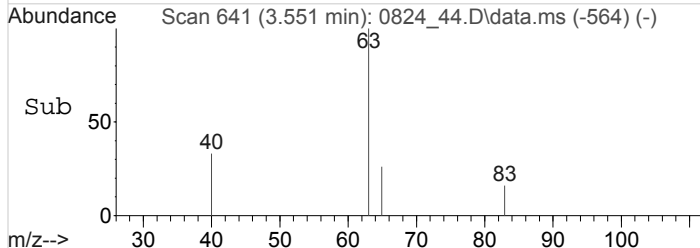
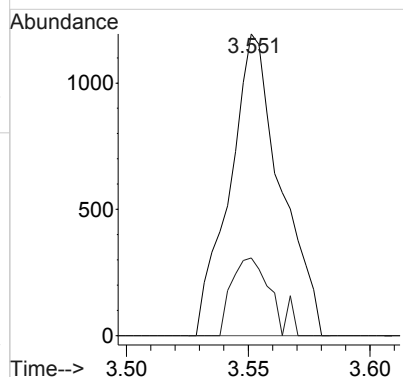
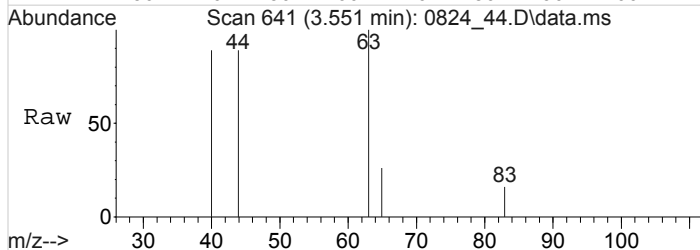
#19
ACETONE
Concen: 1.4095957 ppb
RT: 3.127 min Scan# 509
Delta R.T. 0.004 min
Lab File: 0824_44.D
Acq: 24 Aug 2020 3:57 pm

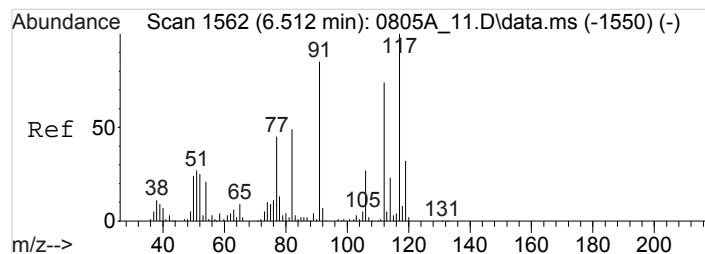
Tgt Ion: 43 Resp: 3804
Ion Ratio Lower Upper
43 100
58 24.8 27.1 40.7#



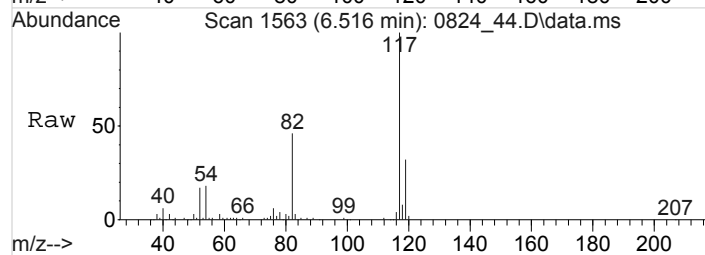
#30
1,1-DICHLOROETHANE
Concen: 0.1209912 ppb
RT: 3.551 min Scan# 641
Delta R.T. -0.003 min
Lab File: 0824_44.D
Acq: 24 Aug 2020 3:57 pm

Tgt Ion: 63 Resp: 1731
Ion Ratio Lower Upper
63 100
65 20.3 24.9 37.3#

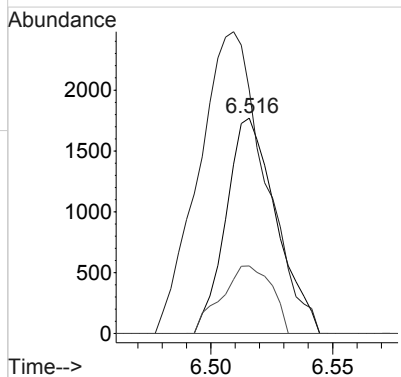
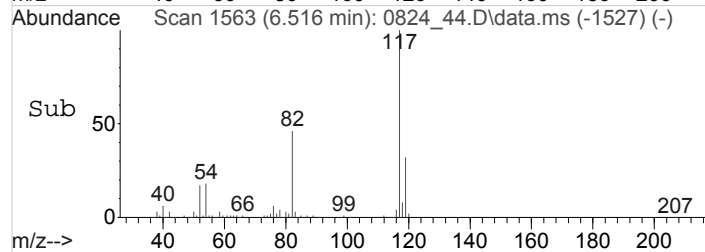




#70
 CHLOROBENZENE
 Concen: 0.1137895 ppb
 RT: 6.516 min Scan# 1563
 Delta R.T. 0.003 min
 Lab File: 0824_44.D
 Acq: 24 Aug 2020 3:57 pm



Tgt Ion	Ratio	Resp	Lower	Upper
112	100			
77	183.7	56.7		85.1#
114	31.4	26.6		40.0



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-15S

Lab Sample ID: L1253445-11
Client Sample ID: MW-15S
Lab File ID: 0824_45
Instrument ID: VOCMS35
Analytical Batch: WG1531305
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/20/20 08:38
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 16:17
Analysis Date/Time: 08/24/20 16:17
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	3.13	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253445-11
Client Sample ID: MW-15S
Lab File ID: 0824_45
Instrument ID: VOCMS35
Analytical Batch: WG1531305
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/20/20 08:38
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 16:17
Analysis Date/Time: 08/24/20 16:17
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_45.D
 Acq On : 24 Aug 2020 4:17 pm
 Operator : 808
 Sample : L1253445-11 1x WG1531305
 Misc : water
 ALS Vial : 45 Sample Multiplier: 1
 InstName : VOCMS35

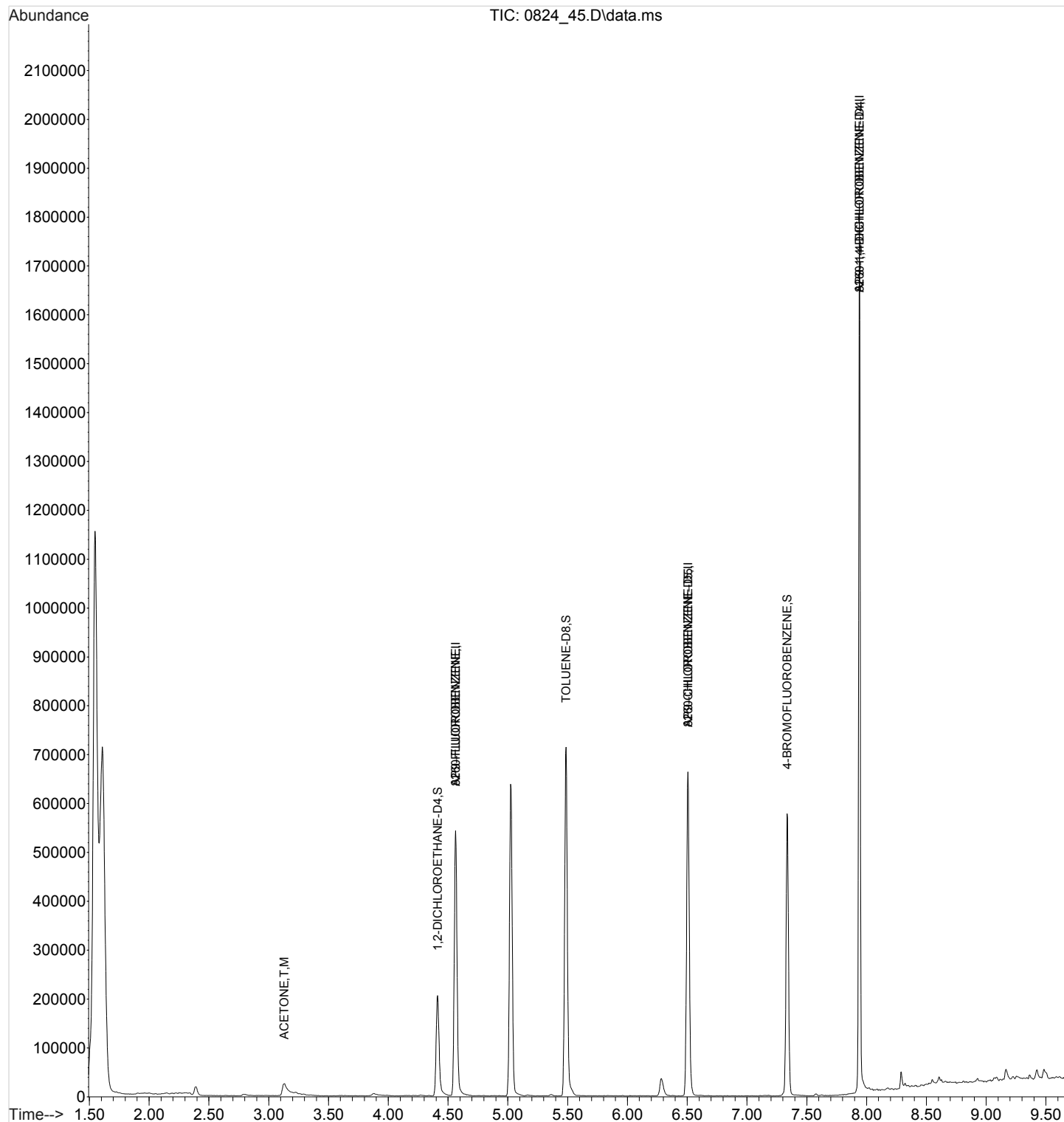
Quant Time: Aug 25 14:32:32 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:55:39 2020
 Response via : Initial Calibration

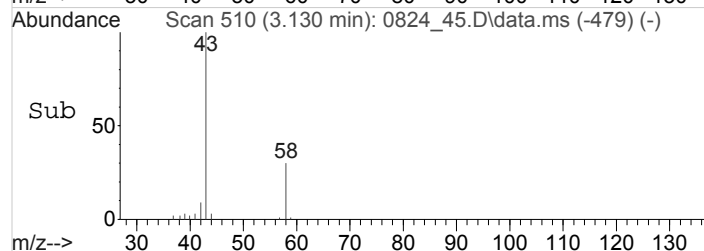
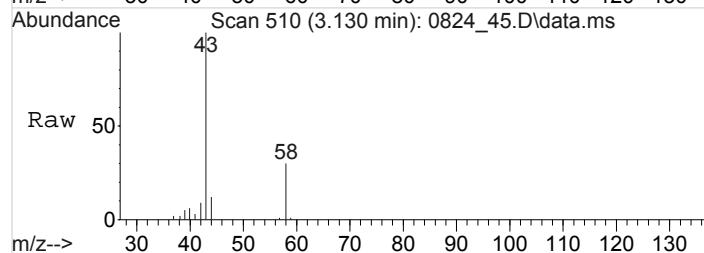
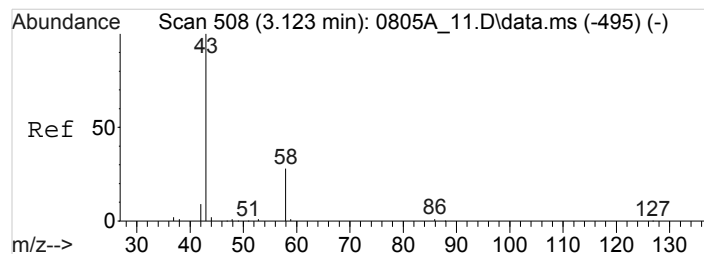
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.564	96	432038	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.506	82	170413	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.940	152	291150	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.564	96	432038	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.506	82	170413	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.940	152	291150	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.413	65	125046	14.3885440	ppb	0.00
Spiked Amount 16.000			Recovery	=	89.93%	
61) TOLUENE-D8	5.487	98	432995	16.5270725	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	103.29%	
80) 4-BROMOFLUOROBENZENE	7.335	95	149048	17.1754214	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	=	107.35%	
Target Compounds						
19) ACETONE	3.130	43	51007	19.4828563	ppb	90

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

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_45.D
Acq On : 24 Aug 2020 4:17 pm
Operator : 808
Sample : L1253445-11 1x WG1531305
Misc : water
ALS Vial : 45 Sample Multiplier: 1
InstName : VOCMS35

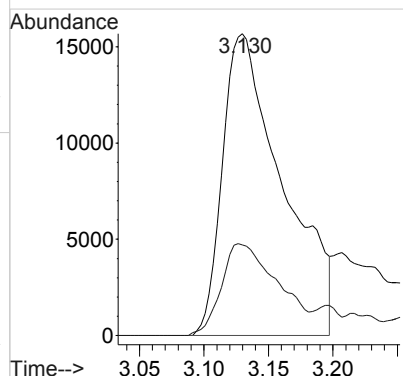
Quant Time: Aug 25 14:32:32 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:55:39 2020
Response via : Initial Calibration





#19
 ACETONE
 Concen: 19.4828563 ppb
 RT: 3.130 min Scan# 510
 Delta R.T. 0.007 min
 Lab File: 0824_45.D
 Acq: 24 Aug 2020 4:17 pm

Tgt Ion: 43 Resp: 51007
 Ion Ratio Lower Upper
 43 100
 58 28.4 27.1 40.7



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-151

Lab Sample ID: L1253445-12
Client Sample ID: MW-151
Lab File ID: 0824_46
Instrument ID: VOCMS35
Analytical Batch: WG1531305
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/20/20 09:23
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 16:37
Analysis Date/Time: 08/24/20 16:37
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	3.13	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253445-12
Client Sample ID: MW-15I
Lab File ID: 0824_46
Instrument ID: VOCMS35
Analytical Batch: WG1531305
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/20/20 09:23
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 16:37
Analysis Date/Time: 08/24/20 16:37
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_46.D
 Acq On : 24 Aug 2020 4:37 pm
 Operator : 808
 Sample : L1253445-12 1x WG1531305
 Misc : water
 ALS Vial : 46 Sample Multiplier: 1
 InstName : VOCMS35

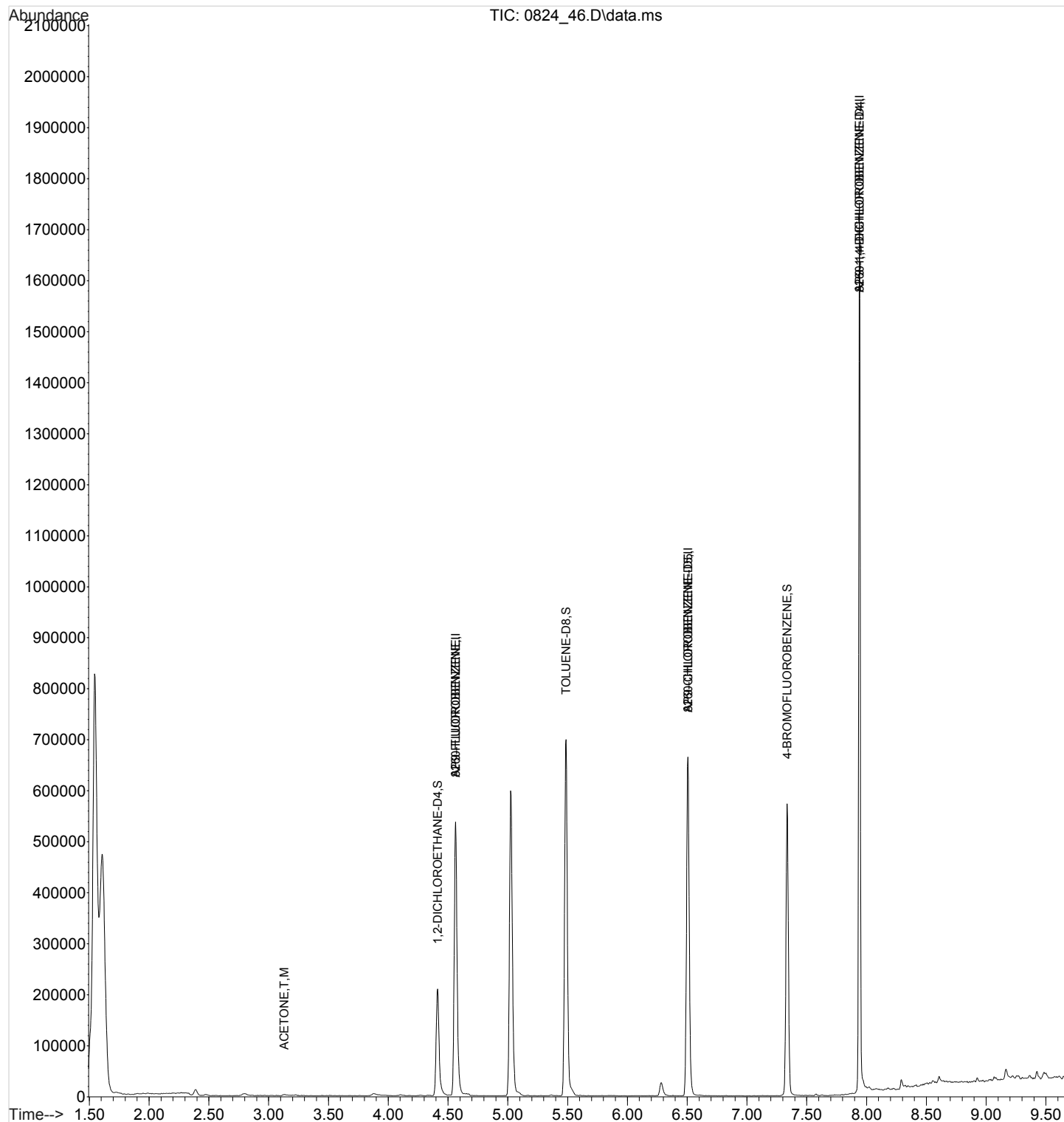
Quant Time: Aug 25 14:33:09 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:55:39 2020
 Response via : Initial Calibration

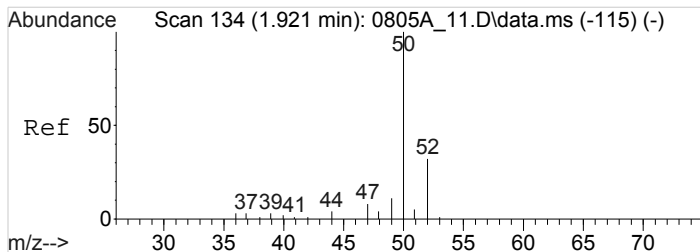
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.564	96	432104	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.506	82	172579	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.940	152	274398	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.564	96	432104	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.506	82	172579	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.940	152	274398	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.413	65	128112	14.7390847	ppb	0.00
Spiked Amount 16.000			Recovery	=	92.12%	
61) TOLUENE-D8	5.487	98	441963	16.6576501	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	104.11%	
80) 4-BROMOFLUOROBENZENE	7.336	95	147167	16.7458216	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	=	104.66%	
Target Compounds						
6) CHLOROMETHANE	1.899	50	160	Below Cal	Qvalue # 51	
19) ACETONE	3.130	43	4363	1.6662560	ppb #	66

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

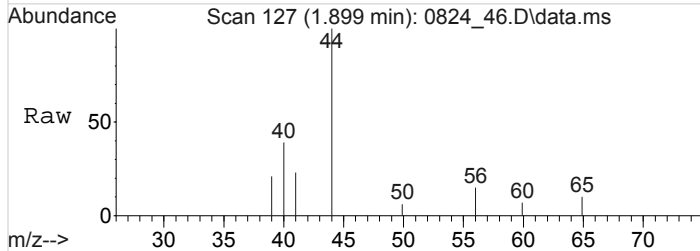
Data Path : C:\msdchem\1\data\082420\
Data File : 0824_46.D
Acq On : 24 Aug 2020 4:37 pm
Operator : 808
Sample : L1253445-12 1x WG1531305
Misc : water
ALS Vial : 46 Sample Multiplier: 1
InstName : VOCMS35

Quant Time: Aug 25 14:33:09 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:55:39 2020
Response via : Initial Calibration

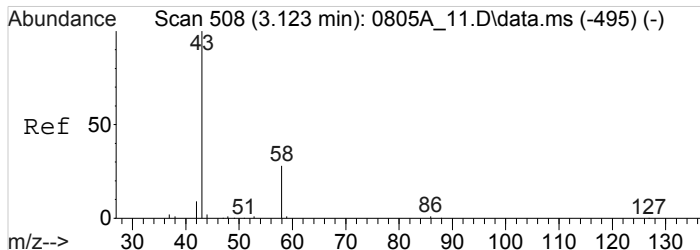
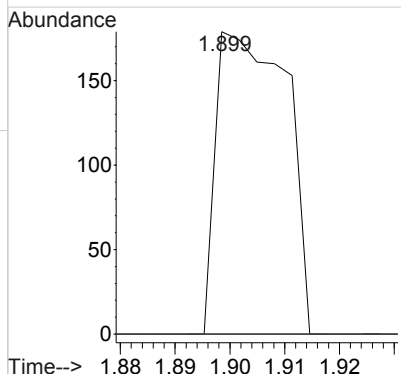
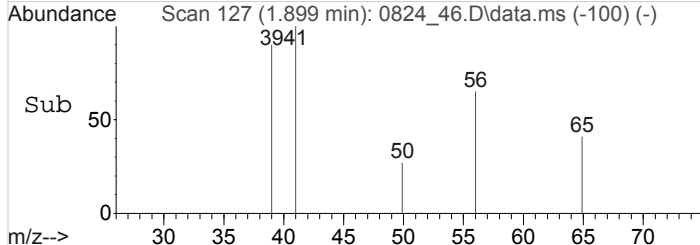




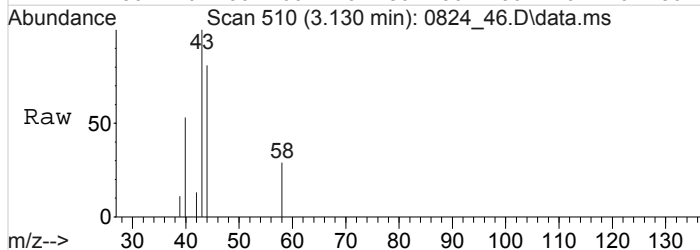
#6
 CHLOROMETHANE
 Concen: Below Cal
 RT: 1.899 min Scan# 127
 Delta R.T. -0.021 min
 Lab File: 0824_46.D
 Acq: 24 Aug 2020 4:37 pm



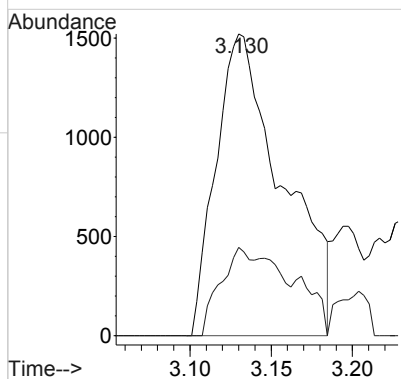
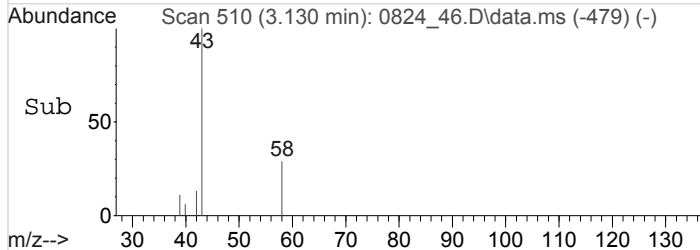
Tgt Ion: 50 Resp: 160
 Ion Ratio Lower Upper
 50 100
 52 0.0 24.8 37.2#
 49 0.0 7.8 11.6#



#19
 ACETONE
 Concen: 1.6662560 ppb
 RT: 3.130 min Scan# 510
 Delta R.T. 0.007 min
 Lab File: 0824_46.D
 Acq: 24 Aug 2020 4:37 pm



Tgt Ion: 43 Resp: 4363
 Ion Ratio Lower Upper
 43 100
 58 14.3 27.1 40.7#



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-16S

Lab Sample ID: L1253445-13
Client Sample ID: MW-16S
Lab File ID: 0824_47
Instrument ID: VOCMS35
Analytical Batch: WG1531305
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/20/20 10:07
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 16:58
Analysis Date/Time: 08/24/20 16:58
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	3.13	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253445-13
Client Sample ID: MW-16S
Lab File ID: 0824_47
Instrument ID: VOCMS35
Analytical Batch: WG1531305
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/20/20 10:07
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 16:58
Analysis Date/Time: 08/24/20 16:58
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_47.D
 Acq On : 24 Aug 2020 4:58 pm
 Operator : 808
 Sample : L1253445-13 1x WG1531305
 Misc : water
 ALS Vial : 47 Sample Multiplier: 1
 InstName : VOCMS35

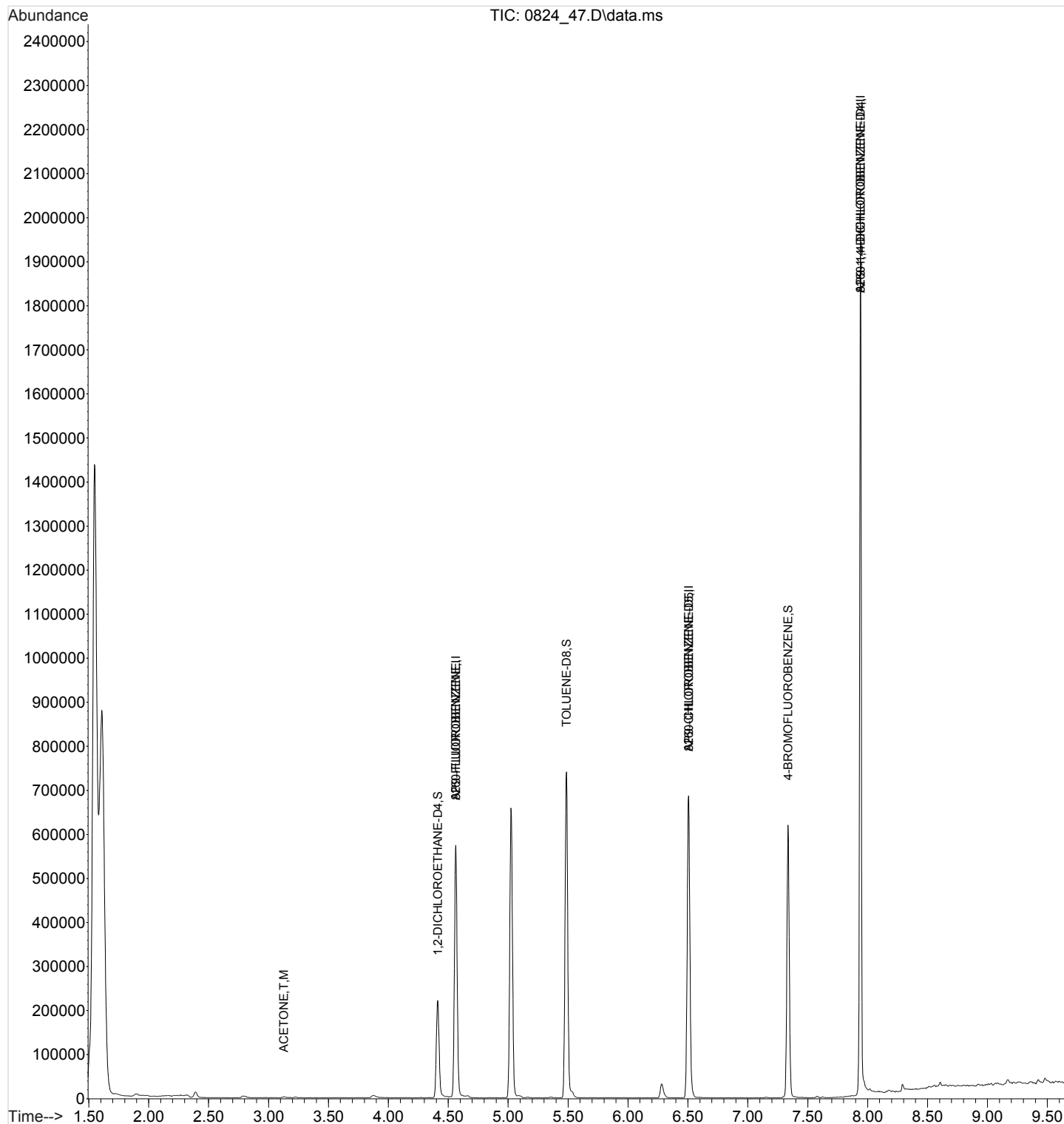
Quant Time: Aug 25 14:33:34 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:55:39 2020
 Response via : Initial Calibration

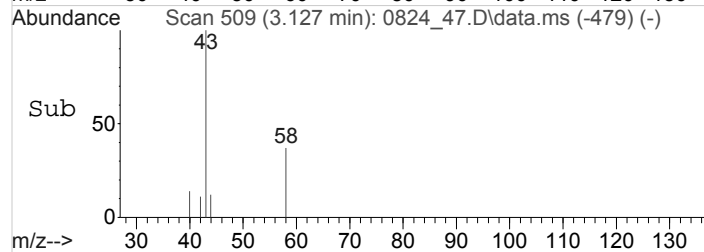
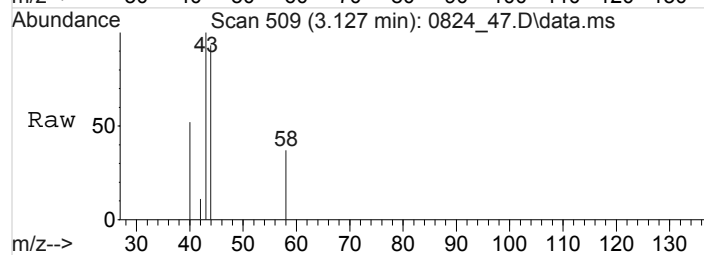
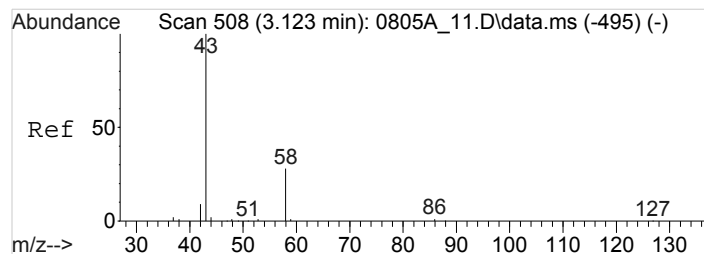
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.564	96	437447	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.506	82	178002	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.940	152	311676	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.564	96	437447	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.506	82	178002	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.940	152	311676	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.413	65	130345	14.8128261	ppb	0.00
Spiked Amount 16.000			Recovery	=	92.58%	
61) TOLUENE-D8	5.487	98	447701	16.3598363	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	102.25%	
80) 4-BROMOFLUOROBENZENE	7.335	95	155943	17.2038233	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	=	107.52%	
Target Compounds						
19) ACETONE	3.127	43	3917	1.4776546	ppb	91

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

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_47.D
Acq On : 24 Aug 2020 4:58 pm
Operator : 808
Sample : L1253445-13 1x WG1531305
Misc : water
ALS Vial : 47 Sample Multiplier: 1
InstName : VOCMS35

Quant Time: Aug 25 14:33:34 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:55:39 2020
Response via : Initial Calibration





#19

ACETONE

Concen: 1.4776546 ppb

RT: 3.127 min Scan# 509

Delta R.T. 0.004 min

Lab File: 0824_47.D

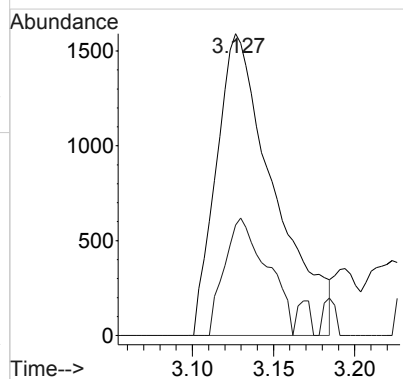
Acq: 24 Aug 2020 4:58 pm

Tgt Ion: 43 Resp: 3917

Ion Ratio Lower Upper

43 100

58 29.0 27.1 40.7



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

DUP-3

Lab Sample ID: L1253445-14
Client Sample ID: DUP-3
Lab File ID: 0824_48
Instrument ID: VOCMS35
Analytical Batch: WG1531305
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/20/20 00:00
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 17:18
Analysis Date/Time: 08/24/20 17:18
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	3.12	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253445-14
Client Sample ID: DUP-3
Lab File ID: 0824_48
Instrument ID: VOCMS35
Analytical Batch: WG1531305
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/20/20 00:00
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 17:18
Analysis Date/Time: 08/24/20 17:18
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_48.D
 Acq On : 24 Aug 2020 5:18 pm
 Operator : 808
 Sample : L1253445-14 1x WG1531305
 Misc : water
 ALS Vial : 48 Sample Multiplier: 1
 InstName : VOCMS35

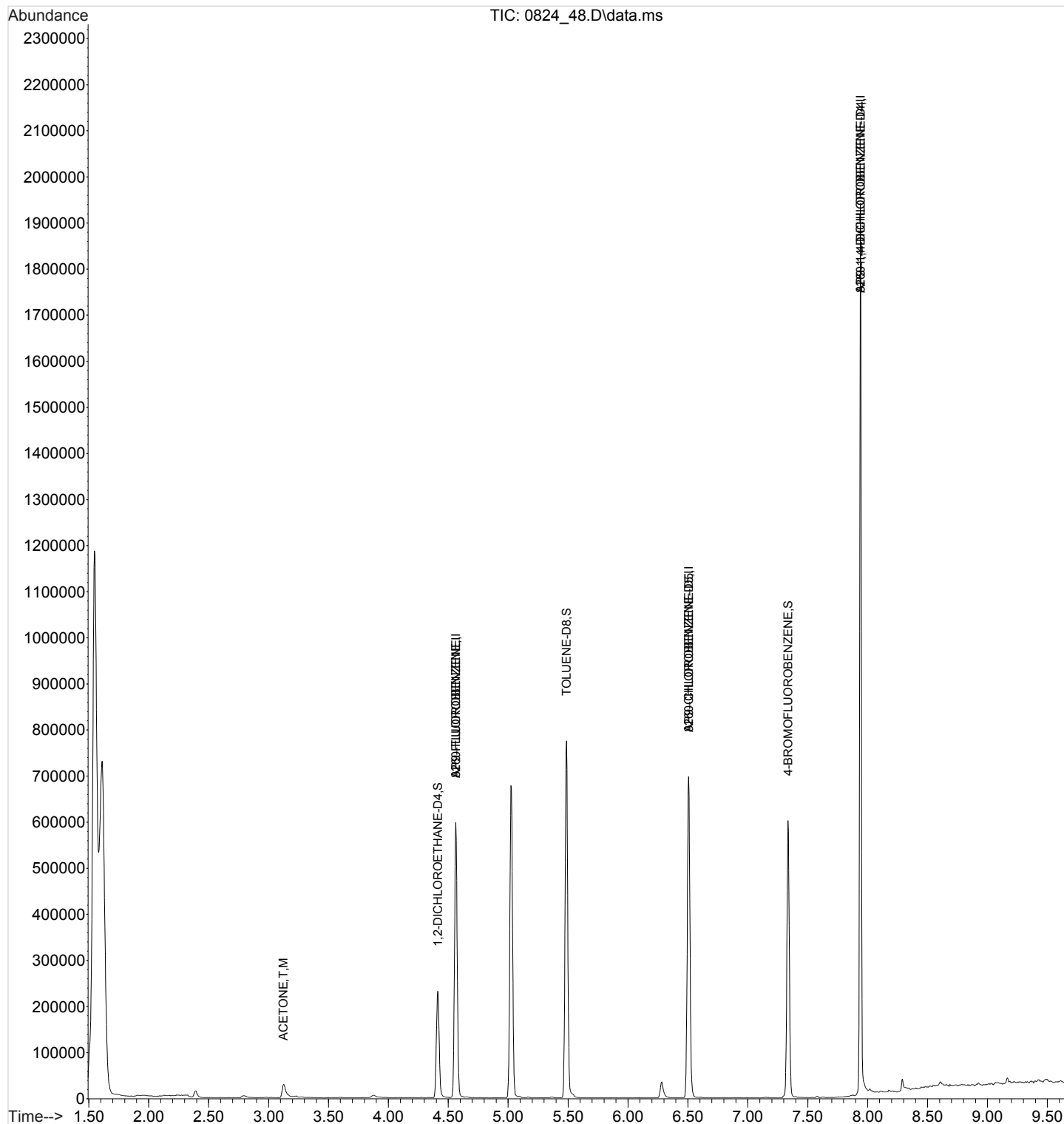
Quant Time: Aug 25 14:34:11 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:55:39 2020
 Response via : Initial Calibration

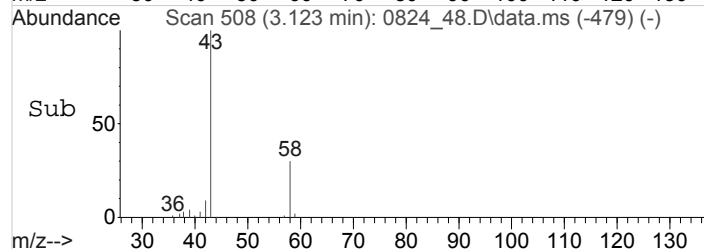
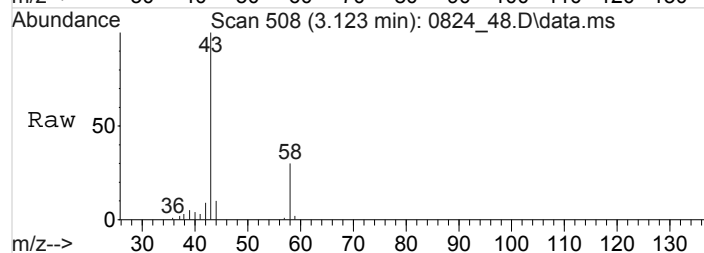
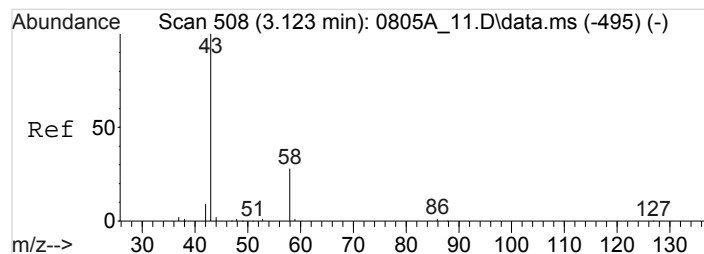
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.564	96	443965	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.506	82	177545	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.940	152	303263	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.564	96	443965	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.506	82	177545	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.940	152	303263	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.413	65	134508	15.0615051	ppb	0.00
Spiked Amount 16.000			Recovery	=	94.13%	
61) TOLUENE-D8	5.487	98	452043	16.5610197	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	103.51%	
80) 4-BROMOFLUOROBENZENE	7.335	95	155583	17.2082880	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	=	107.55%	
Target Compounds						
19) ACETONE	3.123	43	42958	15.9676173	ppb	95

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

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_48.D
Acq On : 24 Aug 2020 5:18 pm
Operator : 808
Sample : L1253445-14 1x WG1531305
Misc : water
ALS Vial : 48 Sample Multiplier: 1
InstName : VOCMS35

Quant Time: Aug 25 14:34:11 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:55:39 2020
Response via : Initial Calibration





#19

ACETONE

Concen: 15.9676173 ppb

RT: 3.123 min Scan# 508

Delta R.T. 0.000 min

Lab File: 0824_48.D

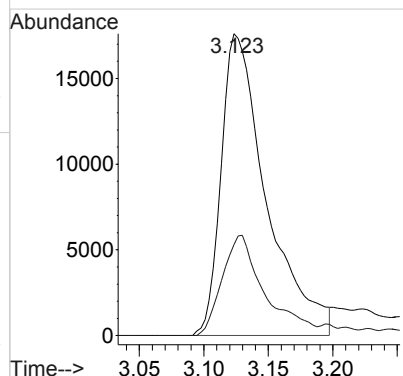
Acq: 24 Aug 2020 5:18 pm

Tgt Ion: 43 Resp: 42958

Ion Ratio Lower Upper

43 100

58 31.2 27.1 40.7



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253445-15
Client Sample ID: TRIP BLANK
Lab File ID: 0824_34
Instrument ID: VOCMS35
Analytical Batch: WG1531305
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 00:00
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 11:39
Analysis Date/Time: 08/24/20 11:39
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253445-15
Client Sample ID: TRIP BLANK
Lab File ID: 0824_34
Instrument ID: VOCMS35
Analytical Batch: WG1531305
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 00:00
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 11:39
Analysis Date/Time: 08/24/20 11:39
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	8.72	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_34.D
 Acq On : 24 Aug 2020 11:39 am
 Operator : 808
 Sample : L1253445-15 1x WG1531305
 Misc : water
 ALS Vial : 34 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 25 14:34:50 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:55:39 2020
 Response via : Initial Calibration

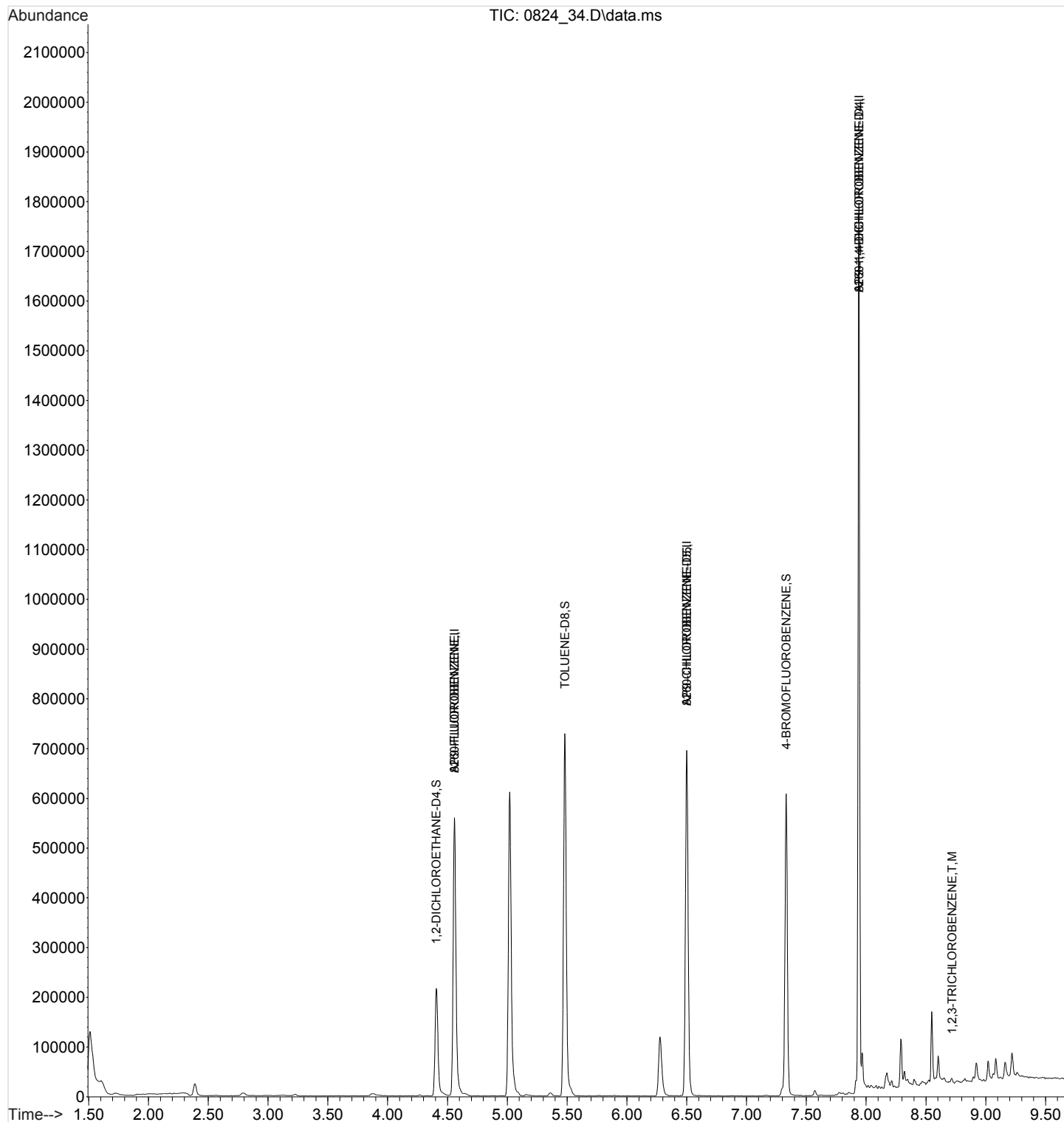
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

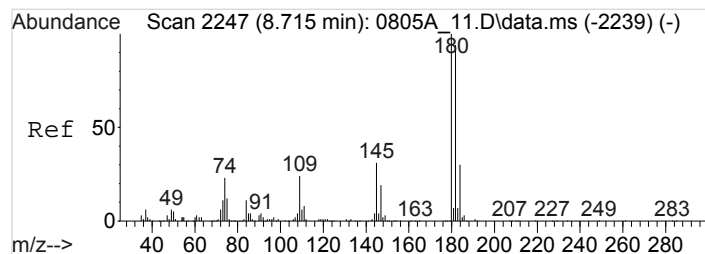
Internal Standards						
1) 8260-FLUOROBENZENE	4.557	96	449706	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.499	82	180738	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.940	152	284904	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.557	96	449706	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.499	82	180746	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.940	152	284904	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.406	65	131460	14.5322860	ppb	0.00
Spiked Amount 16.000			Recovery	=	90.83%	
61) TOLUENE-D8	5.480	98	462890	16.6588147	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	104.12%	
80) 4-BROMOFLUOROBENZENE	7.332	95	155387	16.8829829	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	=	105.52%	
Target Compounds						
106) 1,2,3-TRICHLOROBENZENE	8.718	180	1564	0.0807174	ppb	Qvalue 91

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

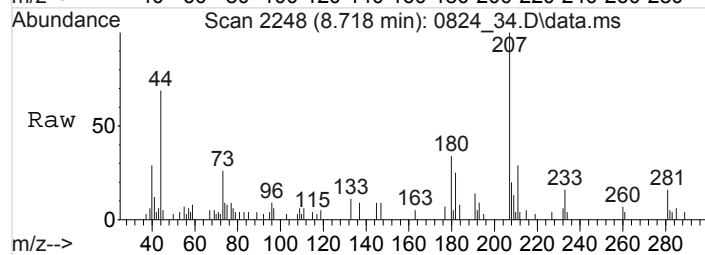
Data Path : C:\msdchem\1\data\082420\
Data File : 0824_34.D
Acq On : 24 Aug 2020 11:39 am
Operator : 808
Sample : L1253445-15 1x WG1531305
Misc : water
ALS Vial : 34 Sample Multiplier: 1
InstName : VOCMS35

Quant Time: Aug 25 14:34:50 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:55:39 2020
Response via : Initial Calibration

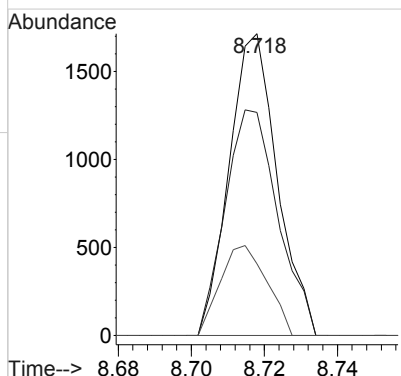
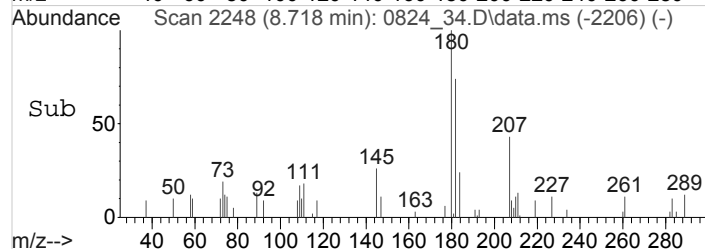




#106
 1,2,3-TRICHLOROBENZENE
 Concen: 0.0807174 ppb
 RT: 8.718 min Scan# 2248
 Delta R.T. 0.003 min
 Lab File: 0824_34.D
 Acq: 24 Aug 2020 11:39 am



Tgt Ion: 180 Resp: 1564
 Ion Ratio Lower Upper
 180 100
 182 81.9 74.6 112.0
 184 29.0 22.7 34.1



6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1253445
Instrument ID: VOCMS35

Analytical Method: 8260B

Analyte	RRF: 0.1	RRF: 0.2	RRF: 0.5	RRF: 1	RRF: 2	RRF: 5.0	RRF: 25	RRF: 75	RRF: 100	RRF: 200
Analysis date/time	08/05/20 22:47	08/05/20 23:07	08/05/20 23:27	08/05/20 23:48	08/06/20 00:07	08/06/20 00:27	08/06/20 00:48	08/06/20 01:08	08/06/20 01:28	08/06/20 01:48
VINYL CHLORIDE	0.55	0.5060	0.4550	0.5450	0.5340	0.5290	0.4820	0.4610	0.4630	0.4420
BROMOMETHANE	0.5910	0.5950	0.6040	0.5410	0.5470	0.5230	0.50	0.5610	0.5740	0.5210
TRICHLOROFLUOROMETHANE	0.4860	0.3830	0.4210	0.4510	0.4260	0.4440	0.4120	0.44	0.4680	0.5180
1,1-DICHLOROETHENE	0.2120	0.2160	0.2280	0.2360	0.2290	0.2280	0.2030	0.2010	0.2170	0.1740
ACRYLONITRILE	0.0970	0.1280	0.1250	0.13	0.1130	0.1360	0.1320	0.1370	0.1470	0.1210
TRANS-1,2-DICHLOROETHENE	0.2540	0.2680	0.28	0.2810	0.2620	0.2790	0.2580	0.2760	0.2840	0.2230
METHYL TERT-BUTYL ETHER	0.75	0.8410	0.8020	0.7580	0.7570	0.7510	0.7380	0.8250	0.8120	0.6710
1,1-DICHLOROETHANE	0.64	0.4970	0.5120	0.5340	0.5180	0.5280	0.4860	0.5010	0.5160	0.4080
DI-ISOPROPYL ETHER	0.9620	0.9480	1.0330	0.9580	0.9570	0.9430	0.9090	0.9360	0.9370	0.7830
CIS-1,2-DICHLOROETHENE	0.2850	0.3720	0.3140	0.3170	0.31	0.3160	0.2940	0.3070	0.3130	0.2520
2-BUTANONE (MEK)	0.2330	0.1930	0.1930	0.2010	0.1840	0.1850	0.1810	0.19	0.1970	0.1710
CHLOROFORM	0.57	0.4950	0.5590	0.5510	0.5270	0.5380	0.5130	0.5260	0.5360	0.45
1,1,1-TRICHLOROETHANE	0.4330	0.4510	0.4170	0.4510	0.4250	0.4370	0.4210	0.4340	0.4370	0.3520
CARBON TETRACHLORIDE	0.3830	0.41	0.3570	0.4480	0.4030	0.4090	0.3950	0.4260	0.4260	0.3370
1,1-DICHLOROPROPENE	0.3240	0.3170	0.34	0.3940	0.3590	0.3480	0.3540	0.3620	0.3680	0.2890
BENZENE	1.2720	1.0720	1.1520	1.1460	1.1110	1.1020	1.0660	1.0980	1.11	0.8970
TRICHLOROETHENE	0.3150	0.2980	0.3080	0.33	0.3110	0.3140	0.2970	0.3060	0.3150	0.2630
1,2-DICHLOROPROPANE	0.1590	0.2080	0.2010	0.2040	0.2030	0.1950	0.1910	0.1980	0.20	0.17
DIBROMOMETHANE	0.1980	0.24	0.2340	0.2250	0.2340	0.2120	0.2060	0.2180	0.22	0.1880
BROMODICHLOROMETHANE	0.3090	0.3760	0.4180	0.4050	0.3990	0.3940	0.3870	0.4010	0.4040	0.3620
CIS-1,3-DICHLOROPROPENE	0.3830	0.3790	0.4090	0.4310	0.4540	0.4390	0.44	0.4720	0.4820	0.4220
4-METHYL-2-PENTANONE (MIBK)	1.0970	1.0510	1.0630	1.1270	1.1090	1.0810	1.0580	1.1050	1.1050	1.0140
TRANS-1,3-DICHLOROPROPENE	0.9860	0.9280	1.0270	0.9670	1.1530	1.0480	1.0870	1.1510	1.1840	1.0310
1,3-DICHLOROPROPANE	0.9630	1.0860	1.2130	1.2670	1.2060	1.1720	1.09	1.0830	1.10	0.9170
CHLORODIBROMOMETHANE	0.74	0.7510	0.8290	0.8140	0.7840	0.8030	0.7680	0.7830	0.7920	0.70
1,2-DIBROMOETHANE	0.7590	0.8450	0.8320	0.7410	0.8160	0.7830	0.73	0.7330	0.7480	0.6230
CHLOROBENZENE	2.3170	2.26	2.0860	1.96	2.0790	2.0170	1.9650	2.0140	2.05	1.8350
1,1,1,2-TETRACHLOROETHANE	0.54	0.6880	0.7450	0.7220	0.7150	0.7090	0.6840	0.7090	0.6990	0.6160
ETHYLBENZENE	1.0190	0.9190	1.0770	1.0890	1.0950	1.0360	1.0310	1.0620	1.0880	0.9480
M&P-XYLENE	1.3670	1.2740	1.2660	1.25	1.26	1.2940	1.2770	1.2930	1.3180	1.1470
O-XYLENE	1.1870	1.3810	1.1190	1.2110	1.2330	1.2260	1.2120	1.22	1.2190	1.0580
ISOPROPYLBENZENE	2.9120	2.8830	3.1660	3.1950	3.2210	3.1710	3.1070	3.2040	3.21	2.7570
BROMOBENZENE	0.8750	0.8470	0.9040	0.8390	0.8220	0.7960	0.7610	0.7870	0.8280	0.7490
1,1,2,2-TETRACHLOROETHANE	0.7370	0.62	0.6320	0.6930	0.6460	0.5970	0.6110	0.6450	0.6610	0.6210
1,2,3-TRICHLOROPROPANE	0.1480	0.1820	0.2050	0.2040	0.1910	0.1860	0.1940	0.1920	0.1970	0.1820
N-PROPYLBENZENE	2.2070	2.0850	2.1130	2.23	2.1440	2.0870	2.0380	2.09	2.2070	1.9260
2-CHLOROTOLUENE	1.3710	1.51	1.4060	1.4690	1.3990	1.3950	1.3990	1.4320	1.4950	1.3880
4-CHLOROTOLUENE	1.5630	1.3260	1.2940	1.3330	1.2970	1.2560	1.27	1.26	1.3110	1.1650
1,3,5-TRIMETHYLBENZENE	1.3710	1.49	1.4650	1.5260	1.4630	1.5170	1.52	1.5630	1.63	1.4910
TERT-BUTYLBENZENE	1.15	1.2240	1.3820	1.36	1.3950	1.3320	1.3280	1.3260	1.3660	1.2250
1,2,4-TRIMETHYLBENZENE	1.69	1.7570	1.6380	1.6860	1.6130	1.6270	1.64	1.6770	1.7220	1.5310
SEC-BUTYLBENZENE	2.2160	2.2450	2.4510	2.4360	2.2880	2.2520	2.2030	2.1840	2.2640	1.9690
1,3-DICHLOROBENZENE	1.4820	1.6190	1.5770	1.5520	1.4730	1.4640	1.4160	1.3940	1.4450	1.28
P-ISOPROPYLTOLUENE	1.9870	2.0510	2.0950	2.2050	2.2140	2.2350	2.1350	2.1850	2.2920	1.9660
1,4-DICHLOROBENZENE	1.9130	1.8240	1.6970	1.7380	1.7270	1.66	1.5580	1.5750	1.6370	1.4790
1,2,3-TRIMETHYLBENZENE	2.7760	2.3820	2.1230	2.2620	2.1840	2.1490	1.9590	2.01	2.0320	1.7510
1,2-DICHLOROBENZENE	2.0440	1.8730	1.9260	1.9920	1.8360	1.8120	1.6280	1.5830	1.6070	1.4070
N-BUTYLBENZENE	2.3940	2.42	2.5910	2.5920	2.5230	2.4860	2.2660	2.1770	2.2590	1.7370
1,2-DIBROMO-3-CHLOROPROPANE	0.4220	0.3880	0.3650	0.3750	0.3390	0.3150	0.3090	0.3140	0.3220	0.3040
1,2,4-TRICHLOROBENZENE	1.42	1.3910	1.2280	1.2220	1.2050	1.1530	1.0650	1.0230	1.0260	0.9130



SDG: L1253445
Instrument ID: VOCMS35

Analytical Method: 8260B

Analyte	RRF: 0.1	RRF: 0.2	RRF: 0.5	RRF: 1	RRF: 2	RRF: 5.0	RRF: 25	RRF: 75	RRF: 100	RRF: 200
Analysis date/time	08/05/20 22:47	08/05/20 23:07	08/05/20 23:27	08/05/20 23:48	08/06/20 00:07	08/06/20 00:27	08/06/20 00:48	08/06/20 01:08	08/06/20 01:28	08/06/20 01:48
HEXACHLORO-1,3-BUTADIENE	0.4780	0.5310	0.5460	0.5290	0.5220	0.5140	0.4430	0.41	0.4270	0.3810
NAPHTHALENE	3.7740	3.37	3.5520	3.6750	3.4650	3.4330	3.2690	3.2010	3.1270	2.1050
1,2,3-TRICHLOROBENZENE	1.3430	1.0340	1.2180	1.1740	1.1110	1.1320	1.0210	0.9820	0.9780	0.89
1,2-DICHLOROETHANE-D4	0.3080	0.3220	0.3230	0.3240	0.3130	0.3270	0.3430	0.3330	0.3180	0.3180
TOLUENE-D8	2.6090	2.5490	2.5690	2.5490	2.6170	2.5470	2.3780	2.2760	2.2620	2.1050
4-BROMOFLUOROBENZENE	0.8170	0.8210	0.8270	0.8080	0.8270	0.8190	0.8420	0.8270	0.7890	0.7460
ACROLEIN		0.0130	0.0210	0.0220	0.02	0.0220	0.0220			
1,1,2-TRICHLOROTRIFLUOROETHANE		0.2060	0.2020	0.2520	0.2260	0.2430	0.2180	0.22	0.24	0.1950
2,2-DICHLOROPROPANE		0.34	0.3130	0.3370	0.31	0.3060	0.2830	0.3160	0.2790	0.2320
1,2-DICHLOROETHANE		0.51	0.4750	0.4250	0.4270	0.4210	0.40	0.4260	0.4280	0.3550
TETRACHLOROETHENE		0.5950	0.6370	0.6780	0.6380	0.6260	0.5820	0.5950	0.6250	0.4970
STYRENE		1.6980	1.8690	1.8970	1.9240	1.9810	2.0660	2.1870	2.2220	2.0040
BROMOFORM		0.5670	0.5480	0.6210	0.59	0.5820	0.6210	0.6740	0.6850	0.6470
DICHLORODIFLUOROMETHANE			0.2710	0.3360	0.3040	0.3160	0.2840	0.2930	0.3220	0.3640
CHLOROMETHANE			0.4760	0.5060	0.4650	0.4650	0.3710	0.3490	0.3430	0.3450
CHLOROETHANE			0.3890	0.3820	0.3920	0.3280	0.3220	0.32	0.3190	0.3460
ACETONE			0.1140	0.1050	0.0880	0.0850	0.0780	0.10	0.1180	0.0870
METHYLENE CHLORIDE			0.3420	0.33	0.2880	0.2890	0.26	0.2820	0.2860	0.2210
TOLUENE			3.4680	2.9920	3.1620	3.1160	2.8640	2.8070	2.88	2.2760
1,1,2-TRICHLOROETHANE			0.8130	0.7480	0.7390	0.7040	0.6590	0.6610	0.6670	0.58
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SDG:

L1253445

Analytical Method:

8260B

Instrument ID:

VOCMS35

Analyte	RRF: 0.04	RRF. Avg	%RSD	COD
Analysis date/time	08/05/20			
	22:27			
VINYL CHLORIDE		0.496704	8.21	
BROMOMETHANE		0.555747	6.33	
TRICHLOROFLUOROMETHANE		0.44469	8.7	
1,1-DICHLOROETHENE		0.214269	8.49	
ACRYLONITRILE		0.126656	11.04	
TRANS-1,2-DICHLOROETHENE		0.266484	7	
METHYL TERT-BUTYL ETHER		0.770624	6.52	
1,1-DICHLOROETHANE		0.514011	11.03	
DI-ISOPROPYL ETHER		0.936677	6.69	
CIS-1,2-DICHLOROETHENE		0.308178	9.8	
2-BUTANONE (MEK)		0.19275	8.58	
CHLOROFORM		0.526607	6.57	
1,1,1-TRICHLOROETHANE		0.425759	6.68	
CARBON TETRACHLORIDE		0.399272	8.34	
1,1-DICHLOROPROPENE		0.345475	8.56	
BENZENE		1.102518	8.43	
TRICHLOROETHENE		0.305752	5.8	
1,2-DICHLOROPROPANE		0.193053	8.26	
DIBROMOMETHANE		0.217509	7.69	
BROMODICHLOROMETHANE		0.385526	8.11	
CIS-1,3-DICHLOROPROPENE		0.431131	7.93	
4-METHYL-2-PENTANONE (MIBK)		1.080988	3.17	
TRANS-1,3-DICHLOROPROPENE		1.056119	8.14	
1,3-DICHLOROPROPANE		1.109653	9.91	
CHLORODIBROMOMETHANE		0.776544	4.91	
1,2-DIBROMOETHANE		0.760939	8.44	
CHLOROBENZENE		2.058235	6.89	
1,1,1,2-TETRACHLOROETHANE		0.682638	8.89	
ETHYLBENZENE		1.036364	5.84	
M&P-XYLENE		1.274571	4.41	
O-XYLENE		1.20655	6.88	
ISOPROPYLBENZENE		3.08254	5.44	
BROMOBENZENE		0.821016	5.95	
1,1,2,2-TETRACHLOROETHANE		0.646172	6.51	
1,2,3-TRICHLOROPROPANE		0.188233	8.64	
N-PROPYLBENZENE		2.112688	4.31	
2-CHLOROTOLUENE		1.426251	3.4	
4-CHLOROTOLUENE		1.307495	7.77	
1,3,5-TRIMETHYLBENZENE		1.503652	4.53	
TERT-BUTYLBENZENE		1.308825	6.21	
1,2,4-TRIMETHYLBENZENE		1.658127	3.81	
SEC-BUTYLBENZENE		2.250861	5.99	
1,3-DICHLOROBENZENE		1.470352	6.65	
P-ISOPROPYLTOLUENE		2.136543	5.11	
1,4-DICHLOROBENZENE		1.680753	7.65	
1,2,3-TRIMETHYLBENZENE		2.162839	12.78	
1,2-DICHLOROBENZENE		1.770811	11.58	
N-BUTYLBENZENE		2.344543	10.94	
1,2-DIBROMO-3-CHLOROPROPANE		0.345408	11.66	
1,2,4-TRICHLOROBENZENE		1.164578	13.97	



SDG:

L1253445

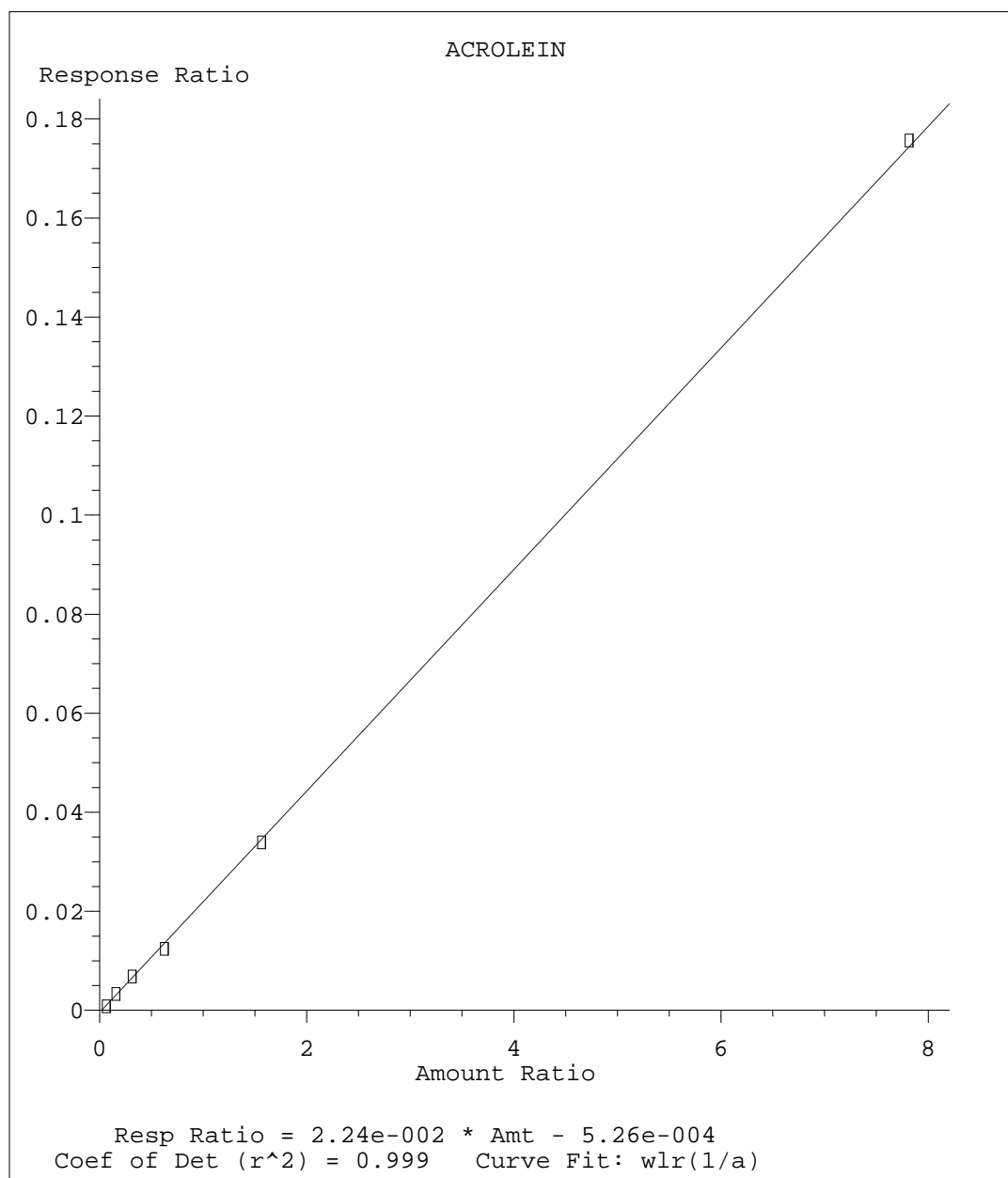
Analytical Method:

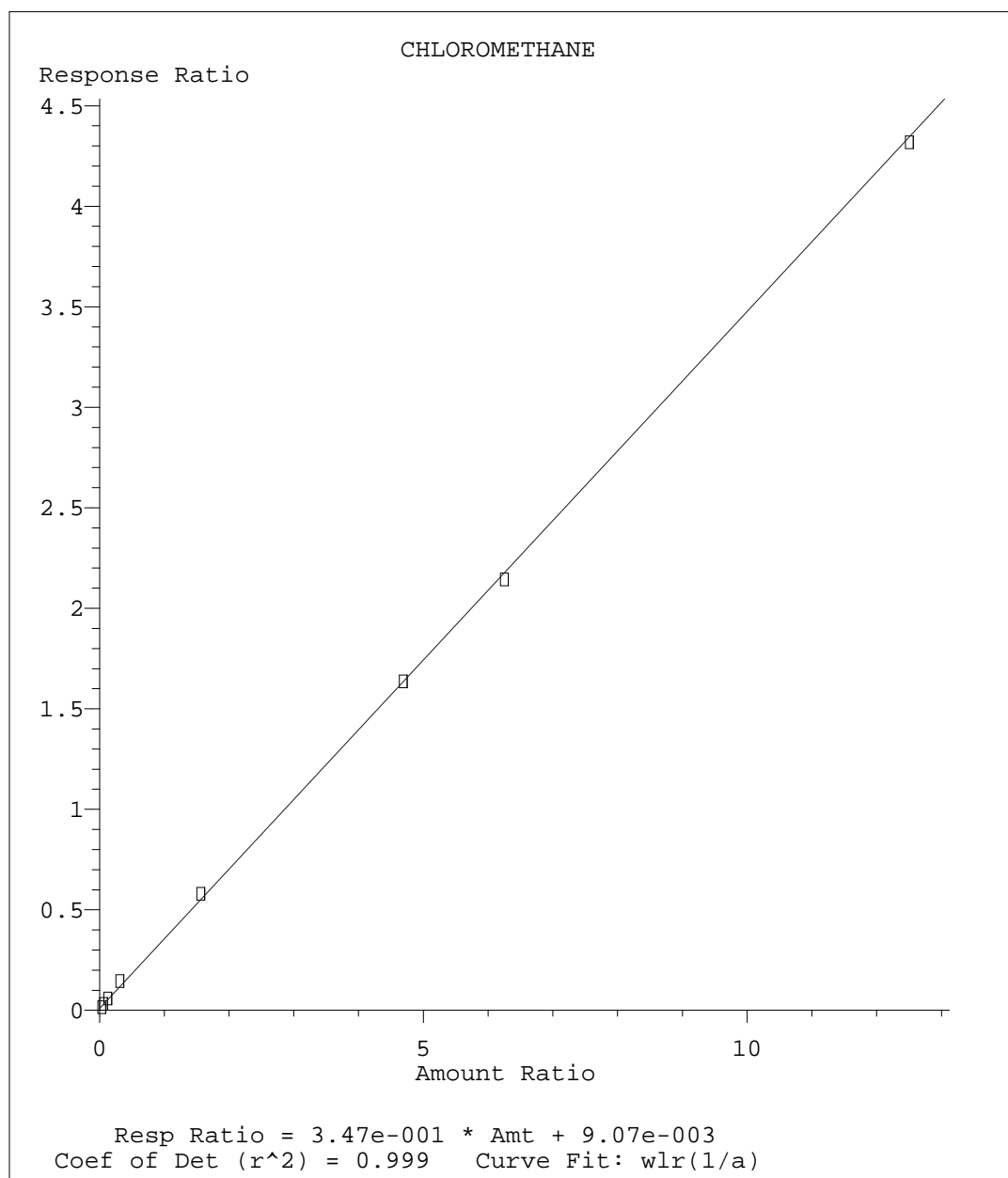
8260B

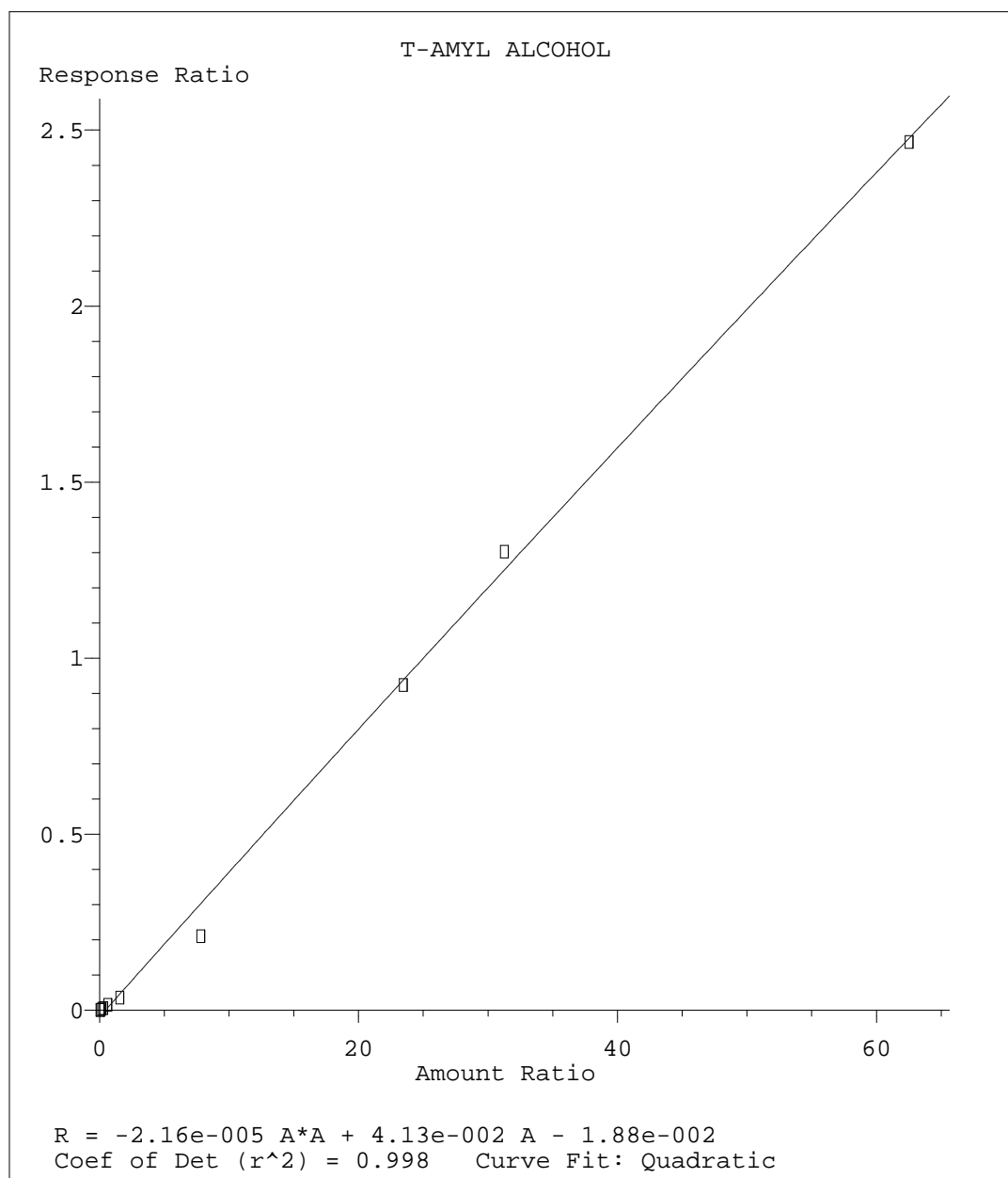
Instrument ID:

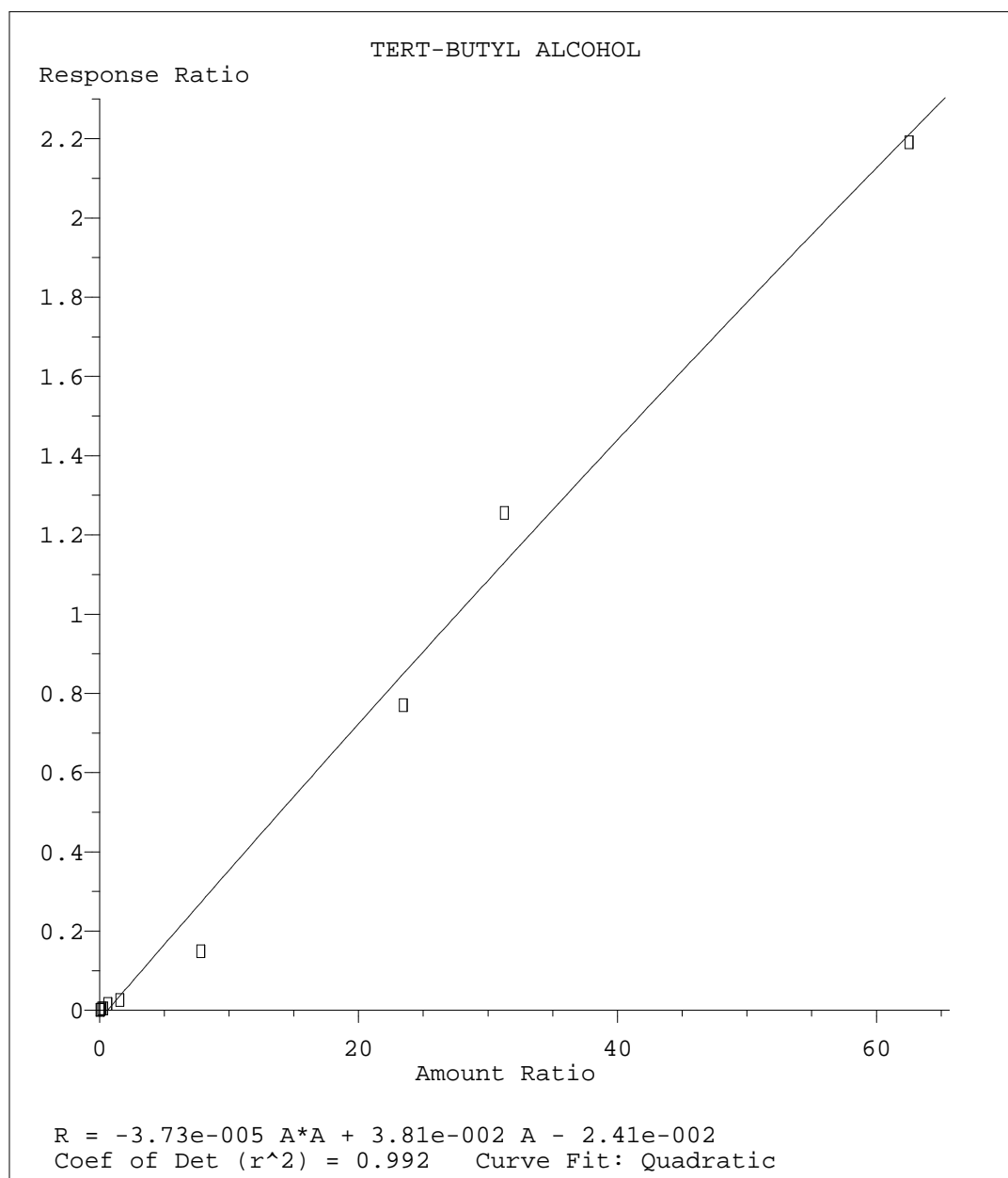
VOCMS35

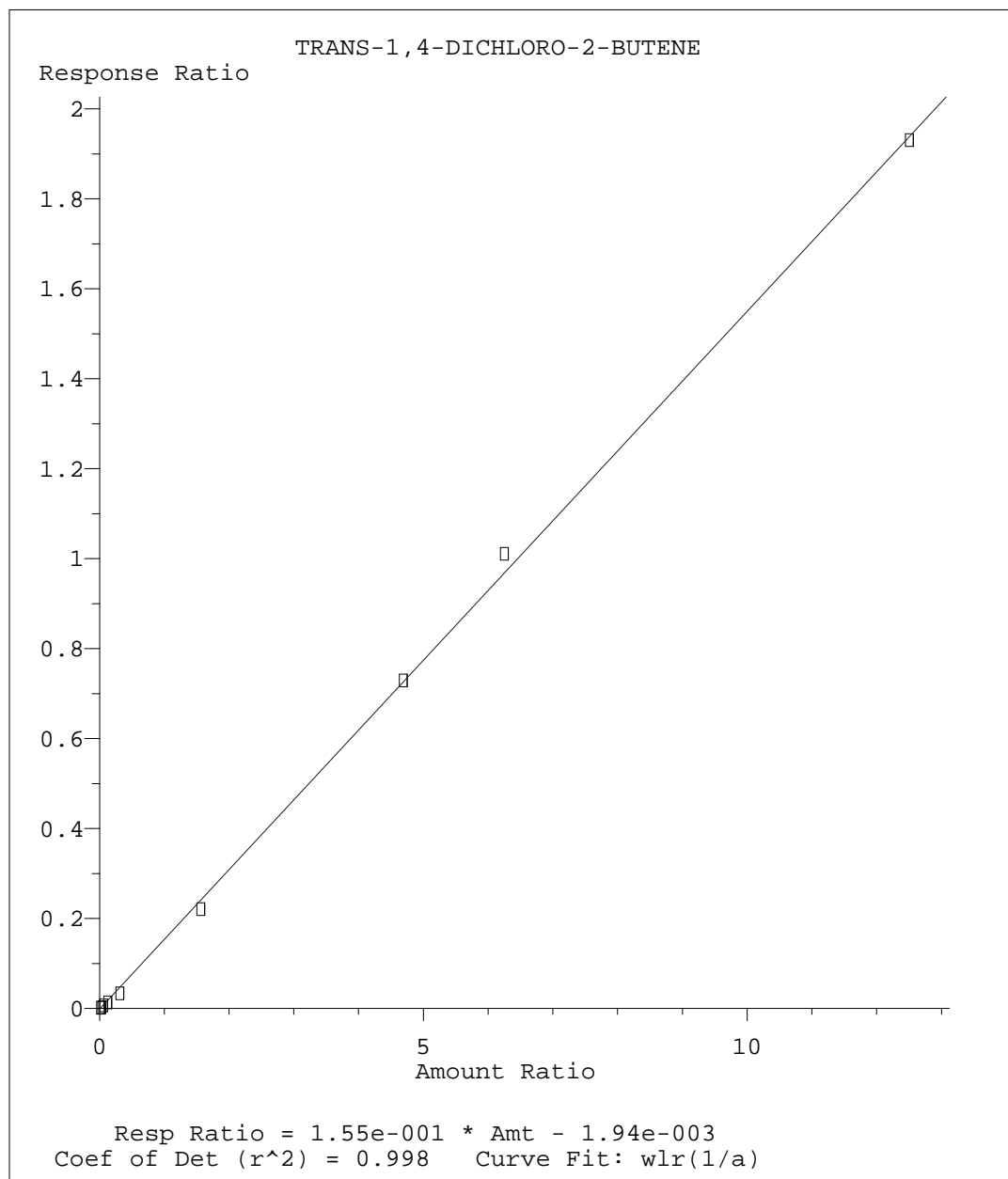
Analyte	RRF: 0.04	RRF. Avg	%RSD	COD
Analysis date/time	08/05/20			
	22:27			
HEXACHLORO-1,3-BUTADIENE		0.478029	12.27	
NAPHTHALENE		3.297214	14.11	
1,2,3-TRICHLOROBENZENE		1.088155	12.3	
1,2-DICHLOROETHANE-D4	0.3110	0.321848	3.15	
TOLUENE-D8	2.5980	2.459825	7.12	
4-BROMOFLUOROBENZENE	0.8380	0.814772	3.3	
ACROLEIN		0.019954	17.76	0.999
1,1,2-TRICHLOROTRIFLUOROETHANE		0.222446	8.77	
2,2-DICHLOROPROPANE		0.301751	11.06	
1,2-DICHLOROETHANE		0.429716	10.11	
TETRACHLOROETHENE		0.608053	8.31	
STYRENE		1.983027	8.19	
BROMOFORM		0.615001	7.74	
DICHLORODIFLUOROMETHANE		0.311275	9.64	
CHLOROMETHANE		0.415125	16.65	0.999
CHLOROETHANE		0.349933	9.29	
ACETONE		0.096956	14.95	
METHYLENE CHLORIDE		0.287077	13.16	
TOLUENE		2.945617	11.68	
1,1,2-TRICHLOROETHANE		0.696381	10.21	
File ID:	0805A_05			



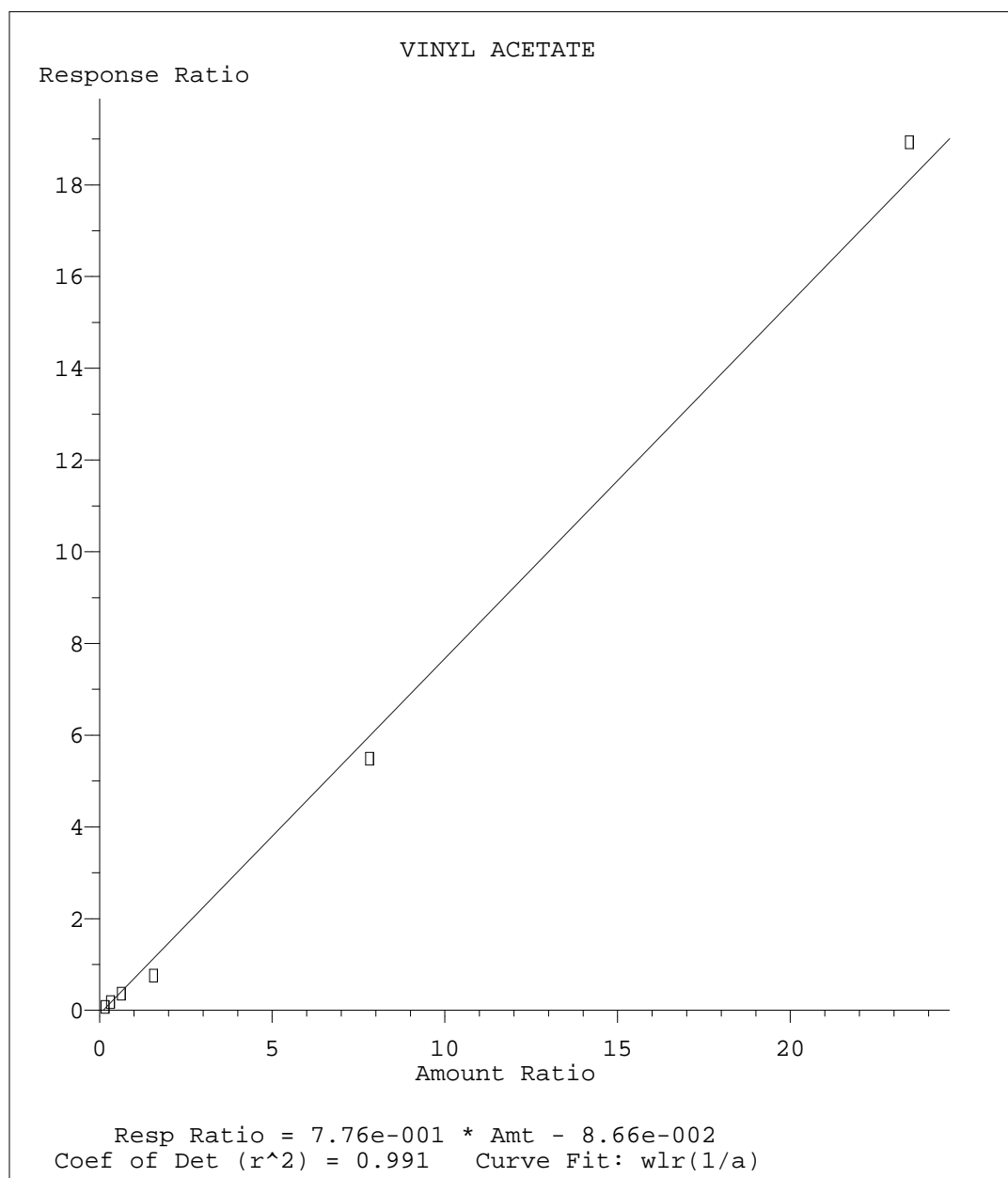








Method Name: C:\msdchem\1\methods\V835H05T.M



Method Path : C:\msdchem\1\methods\
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 Response Via : Initial Calibration

Calibration Files

0.04=0805A_05.D 0.1 =0805A_06.D 0.2 =0805A_07.D 0.5 =0805A_08.D 1 =0805A_09.D 2 =0805A_10.D 5.0 =0805A_11.D
 25 =0805A_12.D 75 =0805A_13.D 100 =0805A_14.D 200 =0805A_15.D 1a =0730_22.D 5a =0730_23.D 10a =0730_24.D
 15a =0730_25.D 20a =0730_26.D

Compound	0.04	0.1	0.2	0.5	1	2	5.0	25	75	100	200	1a	5a	10a	15a	20a	Avg
%RSD																	

-----ISTD-----																	
1) I	8260-FLUOROBENZENE																
2) H	TPH (GC/MS) LO...																
0#	-1.00																0.00
3) H	LRH (C5-C8)																
0#	-1.00																0.00
4) T,M	PROPENE																
5#	13.26																0.11
1	9.64																0.31
6) P,T	MCHLOROMETHANE																
15	16.65																0.4
7) C,T	MVINYL CHLORIDE																
97	8.21#																0.4
8) T,M	1,3-BUTADIENE																
3	15.25																0.43
9) T,M	BROMOMETHANE																
6	6.33																0.55
10) T,M	CHLOROETHANE																
0	9.29																0.35
11) T,M	VINYL BROMIDE																
4#	5.63																0.22
12) T,M	TRICHLOROFLUOR...																
5	8.70																0.44
13) T,M	DICHLOROFLUORO...																
8	8.96																0.57
14) M,T	ETHYL ETHER																
4#	10.19																0.22
15) T,M	ACROLEIN																
0#	17.76																0.02
16) T	ETHANOL																
0#	-1.00																0.00
17) C,T	M1,1-DICHLOROET...																
14#	8.49#																0.2
18) M,T	1,1,2-TRICHLOR...																
2#	8.77																0.22
19) T,M	ACETONE																
7#	14.95																0.09

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20)	T,M IODOMETHANE	0.519	0.531	0.526	0.512	0.488	0.491	0.444	0.479	0.501	0.400	0.48
9	8.26											
21)	T,M CARBON DISULFIDE			0.766	0.830	0.718	0.720	0.639	0.641	0.675	0.496	0.68
6	14.55											
22)	T ALLYL CHLORIDE	0.151	0.152	0.148	0.148	0.143	0.151	0.145	0.162	0.170	0.139	0.15
1#	6.10											
23)	T,M METHYLENE CHLO...			0.342	0.330	0.288	0.289	0.260	0.282	0.286	0.221	0.28
7#	13.16											
24)	T METHYL ACETATE	0.233	0.258	0.213	0.218	0.216	0.229	0.228	0.280	0.284	0.222	0.23
8#	11.12											
25)	T,M ACRYLONITRILE	0.097	0.128	0.125	0.130	0.113	0.136	0.132	0.137	0.147	0.121	0.12
7#	11.04											
26)	T,M n-HEXANE	0.153	0.146	0.195	0.197	0.178	0.178	0.169	0.185	0.198	0.140	0.17
4#	12.38											
27)	T,M TRANS-1,2-DICH...	0.254	0.268	0.280	0.281	0.262	0.279	0.258	0.276	0.284	0.223	0.26
6#	7.00											
28)	T,M METHYL TERT-BU...	0.750	0.841	0.802	0.758	0.757	0.751	0.738	0.825	0.812	0.671	0.77
1	6.52											
29)	T TERT-BUTYL ALC...	0.026	0.019	0.028	0.016	0.025	0.016	0.019	0.033	0.040	0.035	0.02
6#	32.34											
30)	P,T,M1,1-DICHLOROET...	0.640	0.497	0.512	0.534	0.518	0.528	0.486	0.501	0.516	0.408	0.5
14	11.03											
31)	T,M VINYL ACETATE			0.481	0.560	0.578	0.484	0.702	0.807			0.60
2	21.40											
32)	T,M DI-ISOPROPYL E...	0.962	0.948	1.033	0.958	0.957	0.943	0.909	0.936	0.937	0.783	0.93
7	6.69											
33)	T ETHYL TERT-BUT...	0.842	0.970	0.846	0.886	0.843	0.850	0.840	0.826	0.916	0.797	0.86
5	5.62											
34)	T,M 2,2-DICHLOROPR...			0.340	0.313	0.337	0.310	0.306	0.283	0.316	0.232	0.30
2	11.06											
35)	T,M CIS-1,2-DICHL...	0.285	0.372	0.314	0.317	0.310	0.316	0.294	0.307	0.313	0.252	0.30
8	9.80											
36)	T,M 2-BUTANONE (MEK)	0.233	0.193	0.193	0.201	0.184	0.185	0.181	0.190	0.197	0.171	0.19
3#	8.58											
37)	T,M BROMOCHLOROMET...			0.203	0.231	0.216	0.216	0.217	0.207	0.218	0.182	0.21
2#	6.49											
38)	M,T TETRAHYDROFURAN			0.129	0.126	0.125	0.115	0.112	0.100	0.113	0.098	0.11
5#	9.52											
39)	C,T,MCHLOROFORM	0.570	0.495	0.559	0.551	0.527	0.538	0.513	0.526	0.536	0.450	0.5
27	6.57#											
40)	T CYCLOHEXANE			0.342	0.318	0.335	0.327	0.357	0.362	0.362	0.276	0.33
1	8.72											
41)	T,M 1,1,1-TRICHLOR...	0.433	0.451	0.417	0.451	0.425	0.437	0.421	0.434	0.437	0.352	0.42
6	6.68											
42)	T,M CARBON TETRACH...	0.383	0.410	0.357	0.448	0.403	0.409	0.395	0.426	0.426	0.337	0.39
9	8.34											
43)	T,M 1,1-DICHLOROPR...	0.324	0.317	0.340	0.394	0.359	0.348	0.354	0.362	0.368	0.289	0.34
5	8.56											
44)	T,M 2,2,4-TRIMETHY...			0.599	0.711	0.633	0.644	0.616	0.652	0.648	0.447	0.61

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45) T,M n-Heptane

0.117 0.142 0.159 0.132 0.151 0.152 0.156 0.166 0.111

3# 13.34

46) T,M BENZENE

1.272 1.072 1.152 1.146 1.111 1.102 1.066 1.098 1.110 0.897

3 8.43

47) T TERT-AMYL METH...

0.818 0.809 0.816 0.795 0.826 0.811 0.801 0.856 0.831 0.722

9 4.31

48) S 1,2-DICHLOROET...

0.311 0.308 0.322 0.323 0.324 0.313 0.327 0.343 0.333 0.318

2 3.15

49) T,M 1,2-DICHLOROET...

0.510 0.475 0.425 0.427 0.421 0.400 0.426 0.428 0.355

0 10.11

50) T T-AMYL ALCOHOL

0.017 0.009 0.027 0.020 0.025 0.023 0.027 0.039 0.042 0.039

7# 39.79

51) T,M TRICHLOROETHENE

0.315 0.298 0.308 0.330 0.311 0.314 0.297 0.306 0.315 0.263

6 5.80

52) T,M METHYL CYCLOHE...

0.311 0.310 0.363 0.351 0.369 0.364 0.393 0.397 0.298

1 10.40

53) T,M TERT-AMYL ETHY...

0.704 0.608 0.670 0.643 0.614 0.609 0.610 0.646 0.639 0.568

1 6.02

54) C,T,M1,2-DICHLOROPR...

0.159 0.208 0.201 0.204 0.203 0.195 0.191 0.198 0.200 0.170

93# 8.26#

55) T,M DIBROMOMETHANE

0.198 0.240 0.234 0.225 0.234 0.212 0.206 0.218 0.220 0.188

8# 7.69

56) T,M BROMODICHLOROM...

0.309 0.376 0.418 0.405 0.399 0.394 0.387 0.401 0.404 0.362

6 8.11

57) T,M 2-CHLOROETHYL ...

0.219 0.174 0.203 0.212 0.215 0.219 0.223 0.247 0.255 0.244

1# 10.69

58) T,M CIS-1,3-DICHLOR...

0.383 0.379 0.409 0.431 0.454 0.439 0.440 0.472 0.482 0.422

1 7.93

5

59) I 8260-CHLOROBENZENE-D5

-----ISTD-----

60) T,M 4-METHYL-2-PEN...

1.097 1.051 1.063 1.127 1.109 1.081 1.058 1.105 1.105 1.014

1 3.17

61) S TOLUENE-D8

2.598 2.609 2.549 2.569 2.549 2.617 2.547 2.378 2.276 2.262 2.105

0 7.12

62) T,M,CTOLUENE

3.468 2.992 3.162 3.116 2.864 2.807 2.880 2.276

46 11.68#

63) T,M TRANS-1,3-DICH...

0.986 0.928 1.027 0.967 1.153 1.048 1.087 1.151 1.184 1.031

6 8.14

64) T,M 1,1,2-TRICHLOR...

0.813 0.748 0.739 0.704 0.659 0.661 0.667 0.580

6 10.21

65) T,M TETRACHLOROETHENE

0.595 0.637 0.678 0.638 0.626 0.582 0.595 0.625 0.497

8 8.31

66) T,M 1,3-DICHLOROPR...

0.963 1.086 1.213 1.267 1.206 1.172 1.090 1.083 1.100 0.917

0 9.91

67) T,M 2-HEXANONE

0.411 0.361 0.354 0.373 0.381 0.379 0.386 0.405 0.409 0.388

5 5.03

68) T,M CHLORODIBROMOM...

0.740 0.751 0.829 0.814 0.784 0.803 0.768 0.783 0.792 0.700

7 4.91

P

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69)	T,M 1,2-DIBROMOETHANE	0.759	0.845	0.832	0.741	0.816	0.783	0.730	0.733	0.748	0.623	0.76
1	8.44											
70)	P,T,MCHLOROBENZENE	2.317	2.260	2.086	1.960	2.079	2.017	1.965	2.014	2.050	1.835	2.0
58	6.89											
71)	T,M 1,1,1,2-TETRAC...	0.540	0.688	0.745	0.722	0.715	0.709	0.684	0.709	0.699	0.616	0.68
3	8.89											
72)	C,T,METHYLBENZENE	1.019	0.919	1.077	1.089	1.095	1.036	1.031	1.062	1.088	0.948	1.0
36	5.84#											
73)	T,M M&P-XYLENE	1.367	1.274	1.266	1.250	1.260	1.294	1.277	1.293	1.318	1.147	1.27
5	4.41											
74)	T,M O-XYLENE	1.187	1.381	1.119	1.211	1.233	1.226	1.212	1.220	1.219	1.058	1.20
7	6.88											
75)	TOTAL XYLENES											0.00
0#	-1.00											0.00
76)	XYLENES, TOTAL											1.98
0#	-1.00											0.6
77)	T,M STYRENE	1.698	1.869	1.897	1.924	1.981	2.066	2.187	2.222	2.004		3.08
3	8.19											0.81
78)	T,P,MBROMOFORM	0.567	0.548	0.621	0.590	0.582	0.621	0.674	0.685	0.647		
15	7.74											
79)	T,M ISOPROPYLBENZENE	2.912	2.883	3.166	3.195	3.221	3.171	3.107	3.204	3.210	2.757	
3	5.44											
80)	S 4-BROMOFLUOROB...	0.838	0.817	0.821	0.827	0.808	0.827	0.819	0.842	0.827	0.789	0.746
5	3.30											
81)	I 8260-1,4-DICHLOROB...											
82)	T,M BROMOBENZENE	0.875	0.847	0.904	0.839	0.822	0.796	0.761	0.787	0.828	0.749	0.82
1	5.95											0.6
83)	P,T,M1,1,2,2-TETRAC...	0.737	0.620	0.632	0.693	0.646	0.597	0.611	0.645	0.661	0.621	0.18
46	6.51											0.12
84)	T,M 1,2,3-TRICHLOR...	0.148	0.182	0.205	0.204	0.191	0.186	0.194	0.192	0.197	0.182	2.11
8#	8.64											1.78
85)	T,M TRANS-1,4-DICH...	0.107	0.084	0.106	0.107	0.108	0.141	0.155	0.162	0.154		1.42
5#	22.69											1.30
86)	T,M N-PROPYLBENZENE	2.207	2.085	2.113	2.230	2.144	2.087	2.038	2.090	2.207	1.926	1.50
3	4.31											1.30
87)	T,M 4-ETHYLTOLUENE	1.900	1.808	1.802	1.787	1.746	1.781	1.764	1.783	1.858	1.612	1.65
4	4.23											2.25
88)	T,M 2-CHLOROTOLUENE	1.371	1.510	1.406	1.469	1.399	1.395	1.399	1.432	1.495	1.388	
6	3.40											
89)	T,M 4-CHLOROTOLUENE	1.563	1.326	1.294	1.333	1.297	1.256	1.270	1.260	1.311	1.165	
7	7.77											
90)	T,M 1,3,5-TRIMETHY...	1.371	1.490	1.465	1.526	1.463	1.517	1.520	1.563	1.630	1.491	
4	4.53											
91)	T,M TERT-BUTYLBENZENE	1.150	1.224	1.382	1.360	1.395	1.332	1.328	1.326	1.366	1.225	
9	6.21											
92)	T,M 1,2,4-TRIMETHY...	1.690	1.757	1.638	1.686	1.613	1.627	1.640	1.677	1.722	1.531	
8	3.81											
93)	T,M SEC-BUTYLBENZENE	2.216	2.245	2.451	2.436	2.288	2.252	2.203	2.184	2.264	1.969	
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94)	T,M 1,3-DICHLOROBE...	1.482	1.619	1.577	1.552	1.473	1.464	1.416	1.394	1.445	1.280	1.47
0	6.65											
95)	T,M P-ISOPROPYLITOL...	1.987	2.051	2.095	2.205	2.214	2.235	2.135	2.185	2.292	1.966	2.13
7	5.11											
96)	T,M DICYCLOPENTADIENE	2.513	2.649	2.668	2.742	2.794	2.785	2.509	2.418	2.497	2.060	2.56
3	8.59											
97)	T,M 1,4-DICHLOROBE...	1.913	1.824	1.697	1.738	1.727	1.660	1.558	1.575	1.637	1.479	1.68
1	7.65											
98)	M,T 1,2,3-TRIMETHY...	2.776	2.382	2.123	2.262	2.184	2.149	1.959	2.010	2.032	1.751	2.16
3	12.78											
99)	T,M 1,2-DICHLOROBE...	2.044	1.873	1.926	1.992	1.836	1.812	1.628	1.583	1.607	1.407	1.77
1	11.58											
100)	T,M N-BUTYLBENZENE	2.394	2.420	2.591	2.592	2.523	2.486	2.266	2.177	2.259	1.737	2.34
5	10.94											
101)	T,M 1,2-DIBROMO-3-...	0.422	0.388	0.365	0.375	0.339	0.315	0.309	0.314	0.322	0.304	0.34
5	11.66											
102)	T,M 1,3,5-TRICHLOR...	1.439	1.283	1.352	1.393	1.333	1.287	1.174	1.130	1.142		1.28
1	8.68											
103)	T,M 1,2,4-TRICHLOR...	1.420	1.391	1.228	1.222	1.205	1.153	1.065	1.023	1.026	0.913	1.16
5	13.97											
104)	T,M HEXACHLORO-1,3...	0.478	0.531	0.546	0.529	0.522	0.514	0.443	0.410	0.427	0.381	0.47
8	12.27											
105)	T,M NAPHTHALENE	3.774	3.370	3.552	3.675	3.465	3.433	3.269	3.201	3.127	2.105	3.29
7	14.11											
106)	T,M 1,2,3-TRICHLOR...	1.343	1.034	1.218	1.174	1.111	1.132	1.021	0.982	0.978	0.890	1.08
8	12.30											
107)	T,M 1-METHYLNAPHTH...	1.767	1.304	1.295	1.388	1.341	1.325	1.390	1.436	1.442	1.383	1.40
7	9.68											
108)	T,M 2-METHYLNAPHTH...	1.762	1.246	1.374	1.370	1.437	1.341	1.330	1.341	1.343	1.280	1.38
2	10.35											

-----ISTD-----

109)	I AP9-FLUOROBENZENE											0.00
110)	T BROMOETHANE											0.00
0#	-1.00											0.00
111)	T 2-PROPANOL											0.00
0#	-1.00											0.00
112)	T ACETONITRILE											0.00
0#	-1.00											0.00
113)	T CHLOROPRENE											0.00
0#	-1.00											0.00
114)	T PROPIONITRILE											0.00
0#	-1.00											0.00
115)	T ETHYL ACETATE											0.00
0#	-1.00											0.00
116)	T METHACRYLONITRILE											0.00
0#	-1.00											0.00
117)	T TERT-BUTYL FOR...											0.00
0#	-1.00											0.00

P

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118)	T	ISOBUTANOL	0#	-1.00		0.00
119)	T	N-BUTANOL	0#	-1.00		0.00
120)	T	METHYL METHACR...	0#	-1.00		0.00
121)	T	1,4-DIOXANE	0#	-1.00		0.00
122)	T	N-OCTANE	0#	-1.00		0.00
123)	I	AP9-CHLOROBENZENE-D5			-----ISTD-----	0.00
124)	T	2-NITROPROPANE	0#	-1.00		0.00
125)		3,3-DIMETHYL-1...	0#	-1.00		0.00
126)	T	ETHYL METHACRY...	0#	-1.00		0.00
P						
127)	I	AP9-1,4-DICHLOROB...			-----ISTD-----	0.00
128)	T	CIS-1,4-DICHLOR...	0#	-1.00		0.00
129)	T	CYCLOHEXANONE	0#	-1.00		0.00
130)	T	PENTACHLOROETHANE	0#	-1.00		0.00
131)	T	HEXACHLOROETHANE	0#	-1.00		0.00

(#) = Out of Range

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_06.D
 Acq On : 5 Aug 2020 10:47 pm
 Operator : 3527
 Sample : STD VMS 0.1 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:30:52 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:27:14 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	296890	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.500	82	113256	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.937	152	188987	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.56
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.50
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.94
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.410	65	91450	15.1585326	ppb	0.00
Spiked Amount	16.000		Recovery	=	94.74%	
61) TOLUENE-D8	5.480	98	295441	17.6792853	ppb	0.00
Spiked Amount	16.000	Range	90 - 115	Recovery	=	110.50%
80) 4-BROMOFLUOROBENZENE	7.332	95	92548	16.1330582	ppb	0.00
Spiked Amount	16.000	Range	80 - 120	Recovery	=	100.83%
Target Compounds						
2) TPH (GC/MS) LOW FRACTION	4.470	TIC	-710197m	Below Cal		
3) LRH (C5-C8)	4.000	TIC	56943m	0.0022603	ppm	
4) PROPENE	1.673	41	738	0.3498676	ppb	# 74
5) DICHLORODIFLUOROMETHANE	1.735	85	371m	0.0632814	ppb	
6) CHLOROMETHANE	1.908	50	1024m	0.1473054	ppb	
7) VINYL CHLORIDE	1.989	62	1020	0.0975031	ppb	# 50
8) 1,3-BUTADIENE	1.960	39	1255	0.1806740	ppb	# 78
9) BROMOMETHANE	2.230	94	1097	0.1103195	ppb	# 54
10) CHLOROETHANE	2.313	64	1041	0.1714238	ppb	# 60
11) VINYL BROMIDE	2.400	106	416	0.1013259	ppb	# 49
12) TRICHLOROFLUOROMETHANE	2.400	101	901m	0.1064201	ppb	
13) DICHLOROFLUOROMETHANE	2.445	67	1377	0.1353923	ppb	# 78
14) ETHYL ETHER	2.603	59	495	0.1262722	ppb	# 41
15) ACROLEIN	2.963	56	60m	0.1036521	ppb	
17) 1,1-DICHLOROETHENE	2.744	96	393	0.1035558	ppb	# 64
18) 1,1,2-TRICHLOROTRIFLUO...	2.770	101	239	0.0577057	ppb	# 22
19) ACETONE	3.127	43	3024	1.7382804	ppb	# 70
20) IODOMETHANE	2.853	142	4814	0.5602362	ppb	# 94
21) CARBON DISULFIDE	2.783	76	1703	0.1447016	ppb	# 54
22) ALLYL CHLORIDE	3.040	76	1405	0.4935333	ppb	99
23) METHYLENE CHLORIDE	3.101	84	1757	0.3541444	ppb	96
24) METHYL ACETATE	3.188	43	2159	0.5040415	ppb	# 95
25) ACRYLONITRILE	3.580	53	899	0.3596465	ppb	# 75
26) n-HEXANE	3.217	56	284m	0.0879398	ppb	
27) TRANS-1,2-DICHLOROETHENE	3.201	96	471	0.0961625	ppb	82
28) METHYL TERT-BUTYL ETHER	3.246	73	1392	0.1047422	ppb	94
29) TERT-BUTYL ALCOHOL	3.278	59	243	0.4561430	ppb	# 100
30) 1,1-DICHLOROETHANE	3.554	63	1188	0.1312444	ppb	# 79
31) VINYL ACETATE	3.664	43	4505	0.3469427	ppb	# 94
32) DI-ISOPROPYL ETHER	3.442	45	1785	0.0977132	ppb	91
33) ETHYL TERT-BUTYL ETHER	3.648	59	1799	0.1135425	ppb	# 88
34) 2,2-DICHLOROPROPANE	3.918	77	688	0.1309642	ppb	# 55
35) CIS-1,2-DICHLOROETHENE	3.853	96	529	0.0961737	ppb	86
36) 2-BUTANONE (MEK)	4.162	43	2163	0.6313143	ppb	95
37) BROMOCHLOROMETHANE	3.972	130	268	0.0690833	ppb	# 55
38) TETRAHYDROFURAN	4.101	42	179	0.0890855	ppb	# 32
39) CHLOROFORM	3.995	83	1058	0.1112141	ppb	# 96
40) CYCLOHEXANE	3.985	84	580	0.0943094	ppb	# 63

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_06.D
 Acq On : 5 Aug 2020 10:47 pm
 Operator : 3527
 Sample : STD VMS 0.1 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:30:52 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:27:14 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
41) 1,1,1-TRICHLOROETHANE	4.133	97	803	0.1039865	ppb	#	78
42) CARBON TETRACHLORIDE	4.085	117	711	0.0962235	ppb		93
43) 1,1-DICHLOROPROPENE	4.194	75	601	0.0941256	ppb	#	61
44) 2,2,4-TRIMETHYLPENTANE	4.233	57	1225	0.1097921	ppb	#	86
46) BENZENE	4.336	78	2360	0.1026041	ppb		96
47) TERT-AMYL METHYL ETHER	4.371	73	1517	0.1016318	ppb	#	90
49) 1,2-DICHLOROETHANE	4.448	62	934m	0.1239556	ppb		
50) T-AMYL ALCOHOL	4.406	59	155	0.2448766	ppb	#	32
51) TRICHLOROETHENE	4.664	132	585	0.0960291	ppb	#	81
52) METHYL CYCLOHEXANE	4.664	83	533	0.0787946	ppb	#	67
53) TERT-AMYL ETHYL ETHER	4.744	59	1306	0.1145654	ppb		86
54) 1,2-DICHLOROPROPANE	4.972	62	295	0.0832417	ppb	#	36
55) DIBROMOMETHANE	4.914	93	368	0.0949877	ppb	#	74
56) BROMODICHLOROMETHANE	4.995	83	573	0.0792425	ppb	#	70
57) 2-CHLOROETHYL VINYL ETHER	5.297	63	2035	0.4612191	ppb	#	92
58) CIS-1,3-DICHLOROPROPENE	5.368	75	711	0.0849759	ppb	#	95
60) 4-METHYL-2-PENTANONE (...)	5.728	43	3881	0.5111140	ppb		99
62) TOLUENE	5.513	91	2605	0.1319747	ppb		94
63) TRANS-1,3-DICHLOROPROPENE	5.760	75	698	0.0896293	ppb	#	69
64) 1,1,2-TRICHLOROETHANE	5.873	97	331	0.0714876	ppb	#	70
65) TETRACHLOROETHENE	5.776	164	533m	0.1287069	ppb		
66) 1,3-DICHLOROPROPANE	6.062	76	682	0.0898529	ppb	#	42
67) 2-HEXANONE	6.268	58	1453	0.5217103	ppb		85
68) CHLORODIBROMOMETHANE	6.004	129	524	0.0961986	ppb	#	77
69) 1,2-DIBROMOETHANE	6.178	107	537	0.1048666	ppb	#	75
70) CHLOROBENZENE	6.509	112	1640	0.1172439	ppb	#	1
71) 1,1,1,2-TETRACHLOROETHANE	6.548	133	382	0.0789790	ppb	#	16
72) ETHYLBENZENE	6.509	106	721	0.0985991	ppb	#	61
73) M&P-XYLENE	6.599	106	1935	0.1915116	ppb		93
74) O-XYLENE	6.902	106	840	0.0999903	ppb		79
77) STYRENE	6.950	104	1066	0.0719890	ppb		96
78) BROMOFORM	6.985	173	213	0.0468820	ppb	#	28
79) ISOPROPYLBENZENE	7.120	105	2061	0.0942332	ppb	#	86
82) BROMOBENZENE	7.406	77	1034	0.1116080	ppb		98
83) 1,1,2,2-TETRACHLOROETHANE	7.442	83	871	0.1176517	ppb	#	79
84) 1,2,3-TRICHLOROPROPANE	7.548	110	175	0.0778462	ppb	#	24
86) N-PROPYLBENZENE	7.397	91	2607	0.1066495	ppb		97
87) 4-ETHYLTOLUENE	7.461	105	2244	0.1079676	ppb		93
88) 2-CHLOROTOLUENE	7.512	91	1619	0.0964159	ppb	#	88
89) 4-CHLOROTOLUENE	7.619	91	1846	0.1247857	ppb	#	76
90) 1,3,5-TRIMETHYLBENZENE	7.506	105	1619	0.0887506	ppb		93
91) TERT-BUTYLBENZENE	7.709	119	1358	0.0874016	ppb		93
92) 1,2,4-TRIMETHYLBENZENE	7.744	105	1996	0.1030661	ppb		88
93) SEC-BUTYLBENZENE	7.802	105	2617	0.1018973	ppb		99
94) 1,3-DICHLOROBENZENE	7.914	146	1750	0.1058262	ppb	#	75
95) P-ISOPROPYLTOLUENE	7.856	119	2347	0.0918812	ppb		97
96) DICYCLOPENTADIENE	7.866	66	2968	0.1024025	ppb	#	94
97) 1,4-DICHLOROBENZENE	7.943	146	2259	0.1209028	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.940	105	3279	0.1401775	ppb		100
99) 1,2-DICHLOROBENZENE	8.088	146	2414	0.1271375	ppb		91
100) N-BUTYLBENZENE	8.017	91	2828	0.1095755	ppb		92
101) 1,2-DIBROMO-3-CHLOROPR...	8.336	157	499	0.1350720	ppb		95
102) 1,3,5-TRICHLOROBENZENE	8.345	180	1700	0.1216563	ppb	#	90
103) 1,2,4-TRICHLOROBENZENE	8.545	180	1677	0.1370551	ppb		97
104) HEXACHLORO-1,3-BUTADIENE	8.525	225	565	0.1099769	ppb	#	43

Data Path : C:\msdchem\1\data\080520a\
Data File : 0805A_06.D
Acq On : 5 Aug 2020 10:47 pm
Operator : 3527
Sample : STD VMS 0.1 ppb 20H05877
Misc : water SURR/IS 20G06381
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS35

Quant Time: Aug 06 12:30:52 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:27:14 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
105) NAPHTHALENE	8.654	128	4458	0.1246794	ppb	#	91
106) 1,2,3-TRICHLOROBENZENE	8.715	180	1586	0.1341959	ppb		90
107) 1-METHYLNAPHTHALENE	9.024	142	2087	0.1266234	ppb		92
108) 2-METHYLNAPHTHALENE	9.085	142	2081	0.1327596	ppb		92

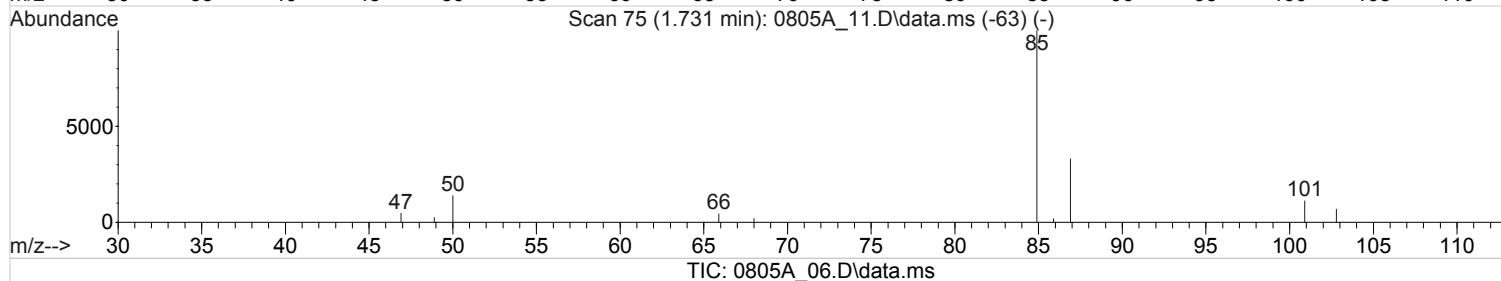
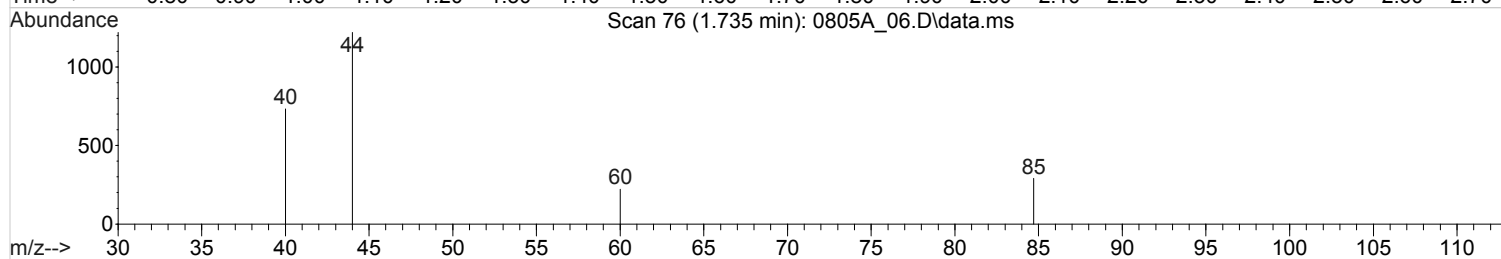
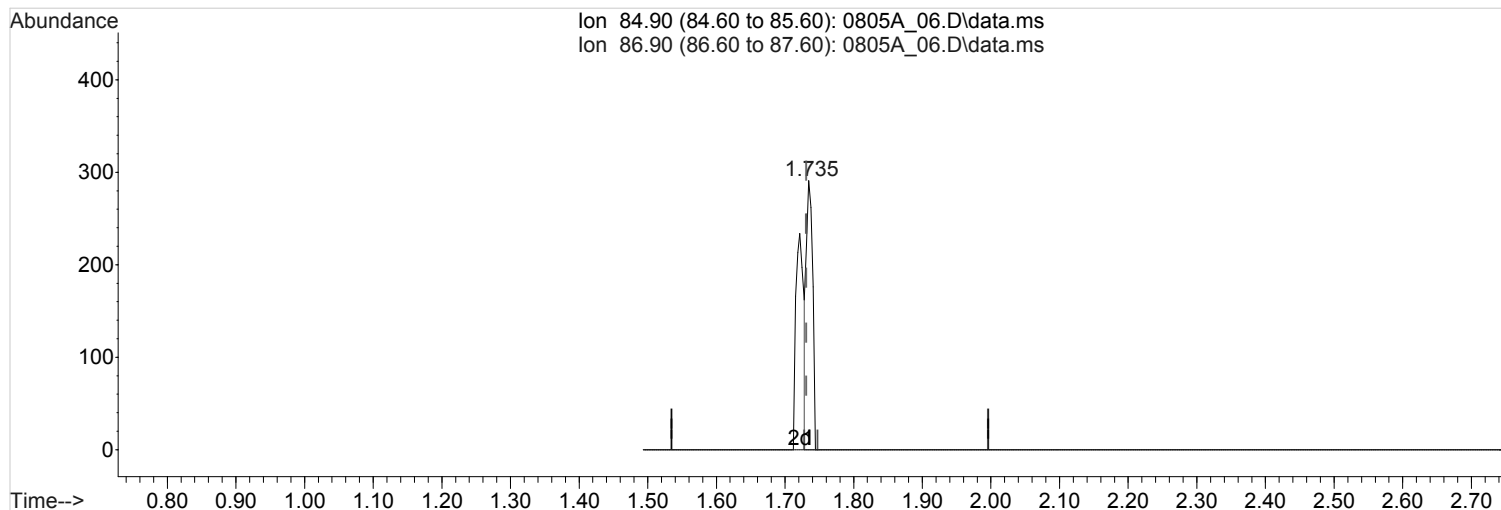
(#) = qualifier out of range (m) = manual integration (+) = signals summed

[illegible]

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_06.D
 Acq On : 5 Aug 2020 10:47 pm
 Operator : 3527
 Sample : STD VMS 0.1 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:27:21 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:27:14 2020
 Response via : Initial Calibration



(5) DICHLORODIFLUOROMETHANE (T,M)

1.735min (+0.003) 0.0312143 ppb

Qvalue = 44

response 183

Ion	Exp%	Act%
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84.90	100	100
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86.90	30.90	0.00#
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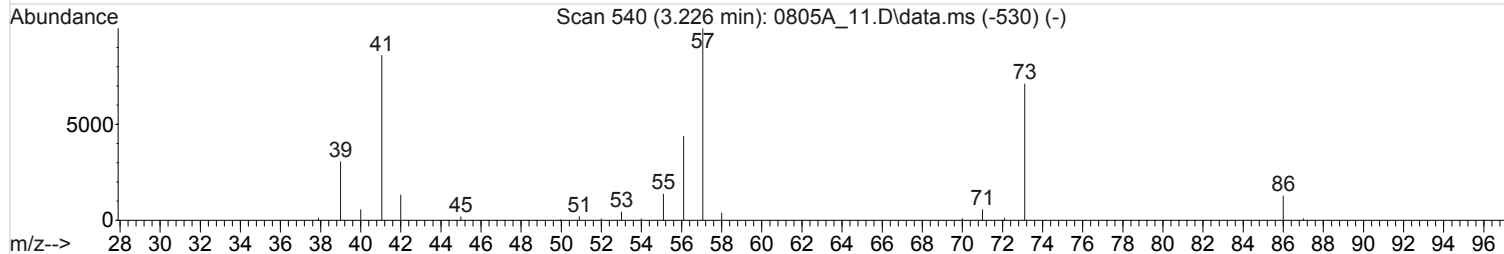
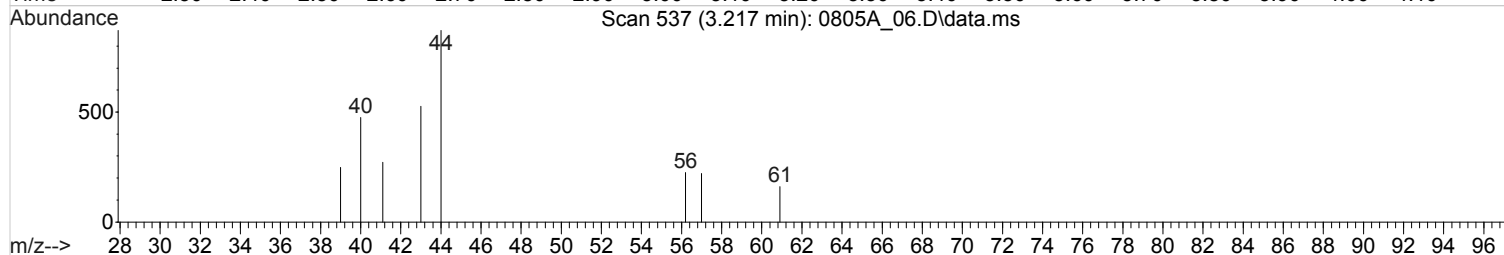
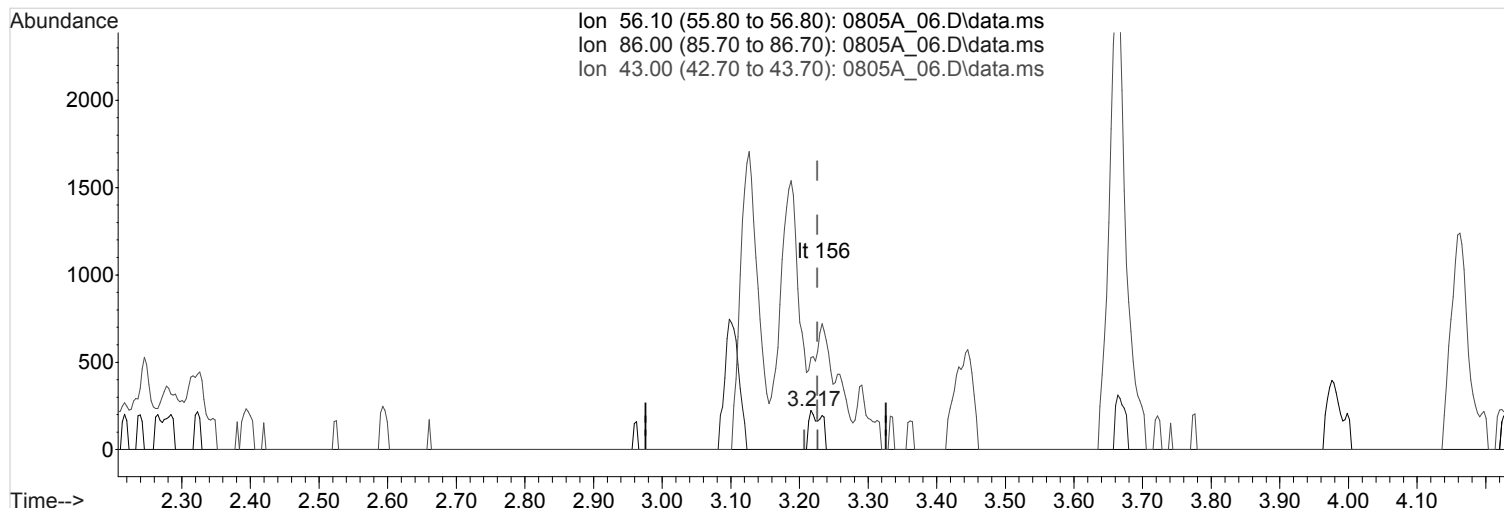
0.00	0.00	0.00
------	------	------

0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_06.D
 Acq On : 5 Aug 2020 10:47 pm
 Operator : 3527
 Sample : STD VMS 0.1 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:27:21 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:27:14 2020
 Response via : Initial Calibration



TIC: 0805A_06.D\data.ms

(26) n-HEXANE (T,M)

3.217min (-0.009) 0.0879398 ppb m

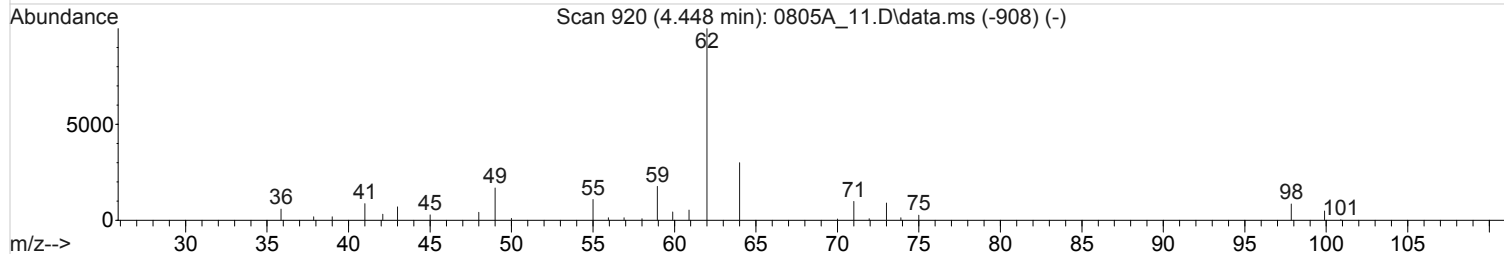
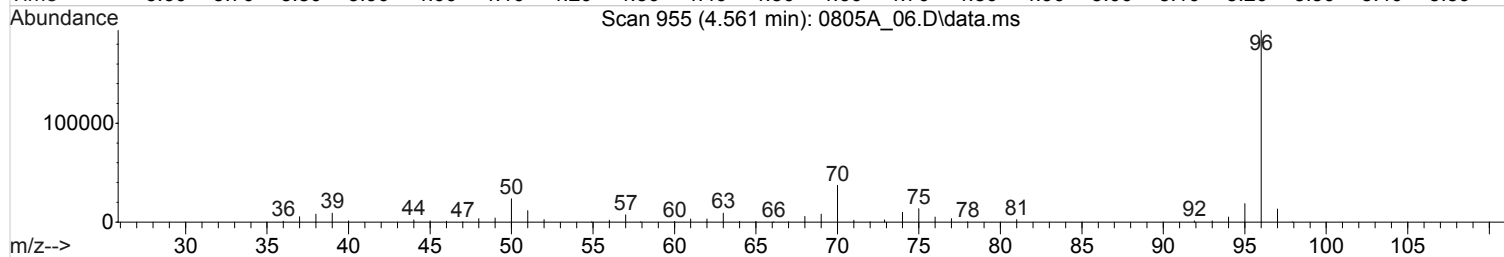
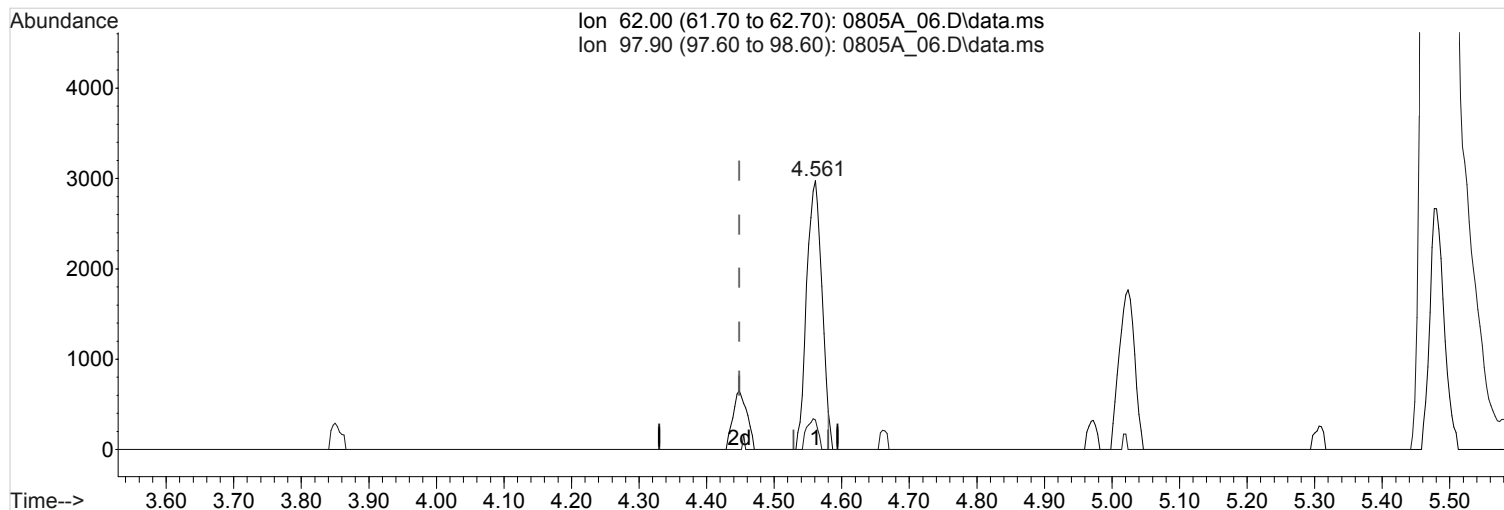
response 284

Ion	Exp%	Act%
56.10	100	100
86.00	25.00	0.00#
43.00	0.00	129.23#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
Data File : 0805A_06.D
Acq On : 5 Aug 2020 10:47 pm
Operator : 3527
Sample : STD VMS 0.1 ppb 20H05877
Misc : water SURR/IS 20G06381
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS35

Quant Time: Aug 06 12:27:21 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:27:14 2020
Response via : Initial Calibration



TIC: 0805A_06.D\data.ms

(49) 1,2-DICHLOROETHANE (T,M)

4.561min (+0.113) 0.6164601 ppb

Qvalue = 99

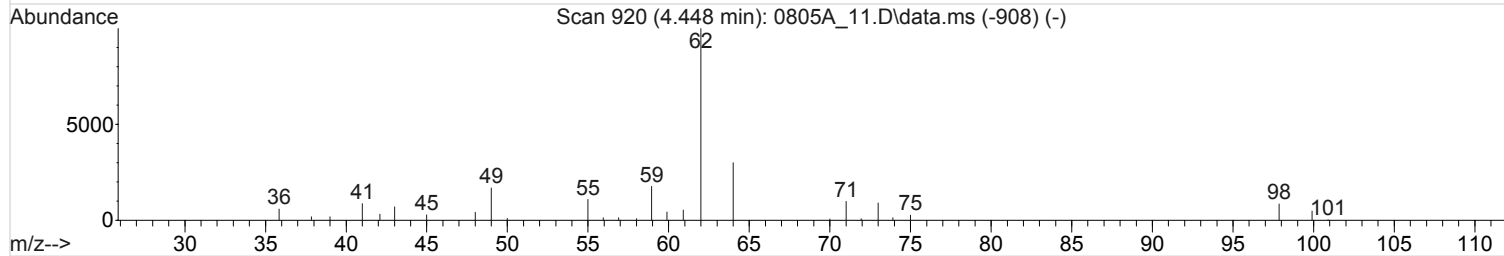
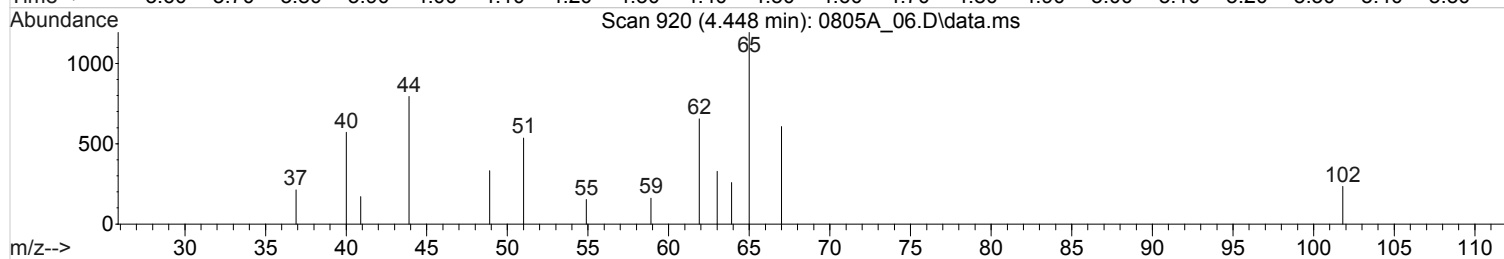
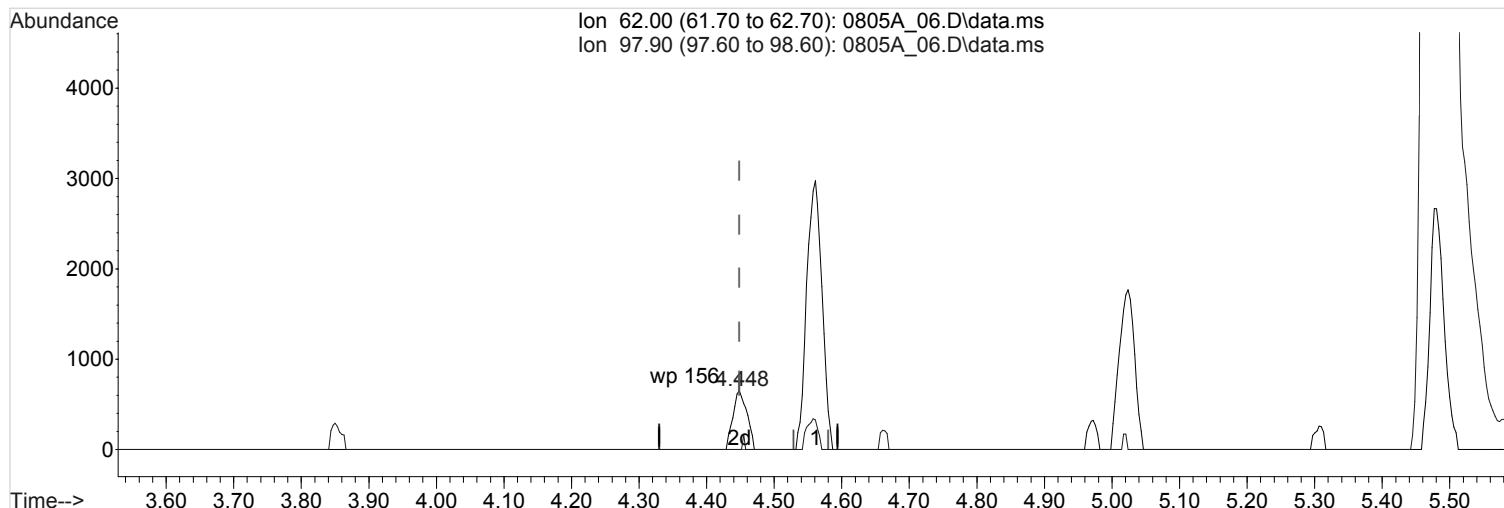
response 4645

Ion	Exp%	Act%
62.00	100	100
97.90	9.00	8.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_06.D
 Acq On : 5 Aug 2020 10:47 pm
 Operator : 3527
 Sample : STD VMS 0.1 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:27:21 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:27:14 2020
 Response via : Initial Calibration



TIC: 0805A_06.D\data.ms

(49) 1,2-DICHLOROETHANE (T,M)
 4.448min (+0.000) 0.1239556 ppb m

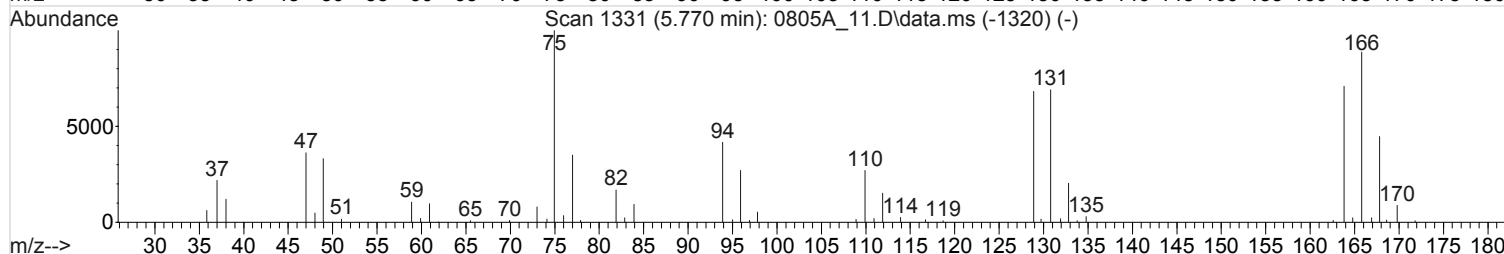
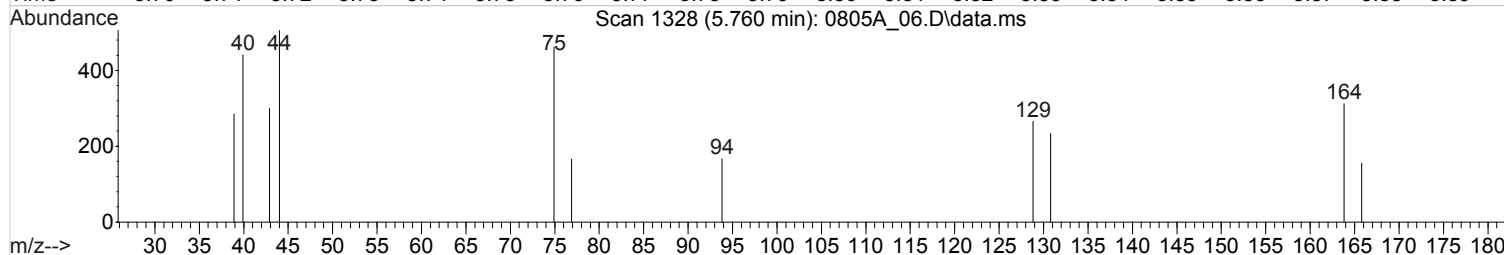
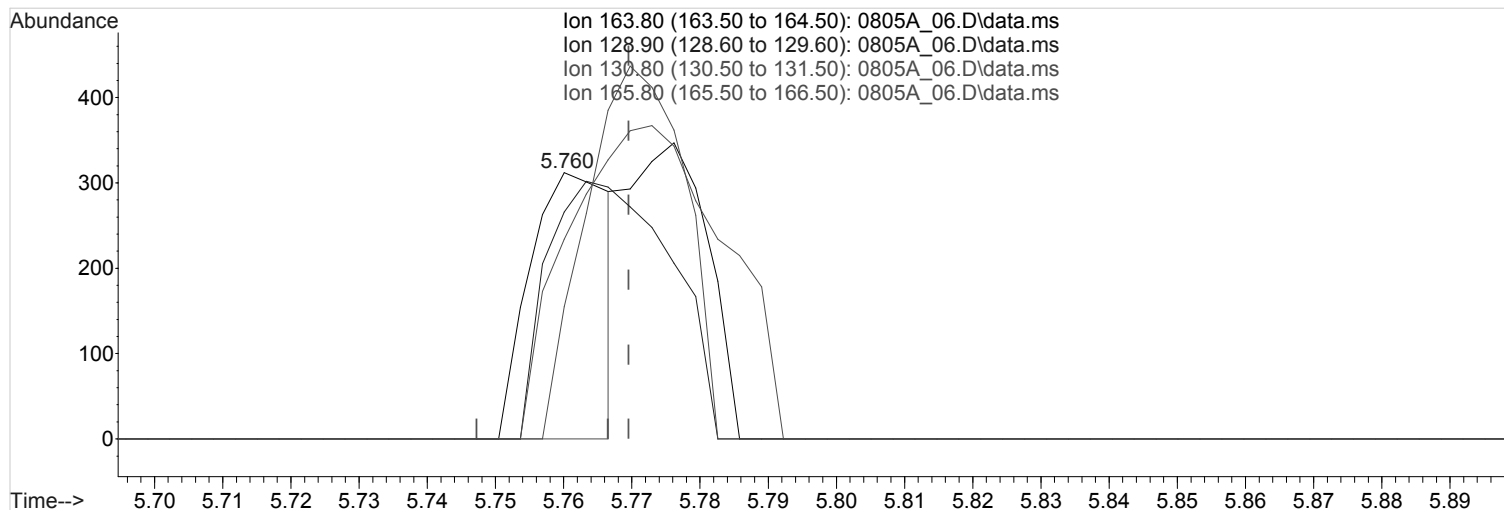
response 934

Ion	Exp%	Act%
62.00	100	100
97.90	9.00	42.61#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_06.D
 Acq On : 5 Aug 2020 10:47 pm
 Operator : 3527
 Sample : STD VMS 0.1 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:27:21 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:27:14 2020
 Response via : Initial Calibration



TIC: 0805A_06.D\data.ms

(65) TETRACHLOROETHENE (T,M)

5.760min (-0.009) 0.0615765 ppb

Qvalue = 24

response 255

Ion	Exp%	Act%
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163.80	100	100
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128.90	90.80	148.24#
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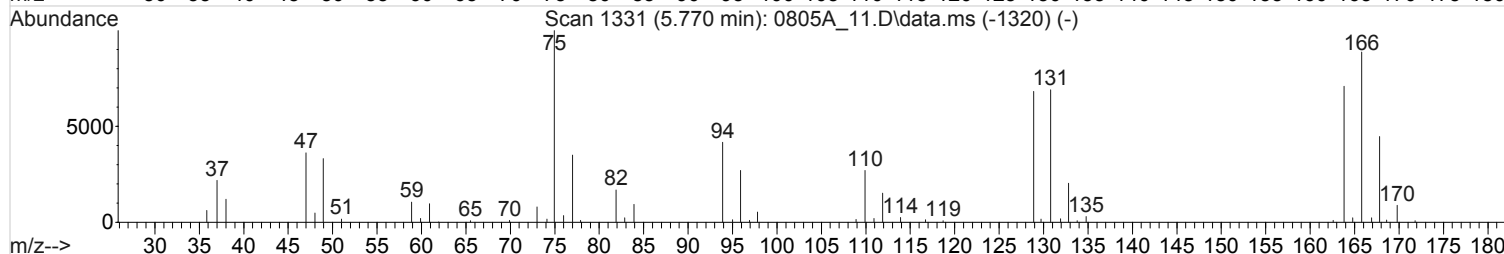
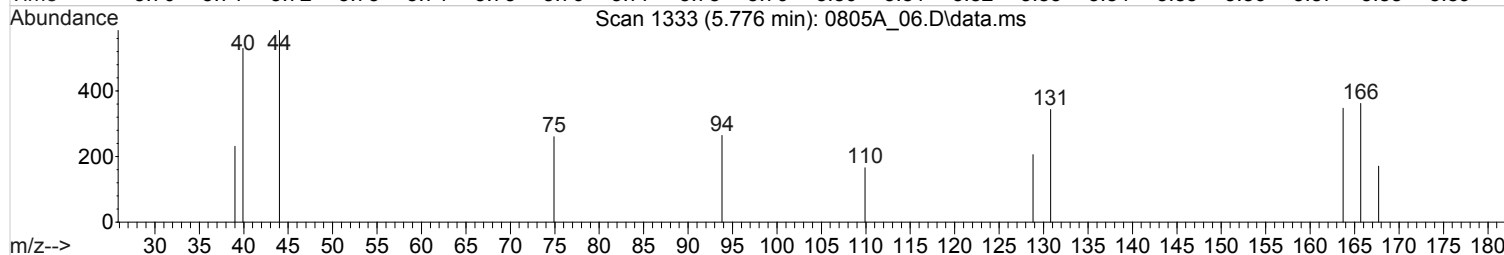
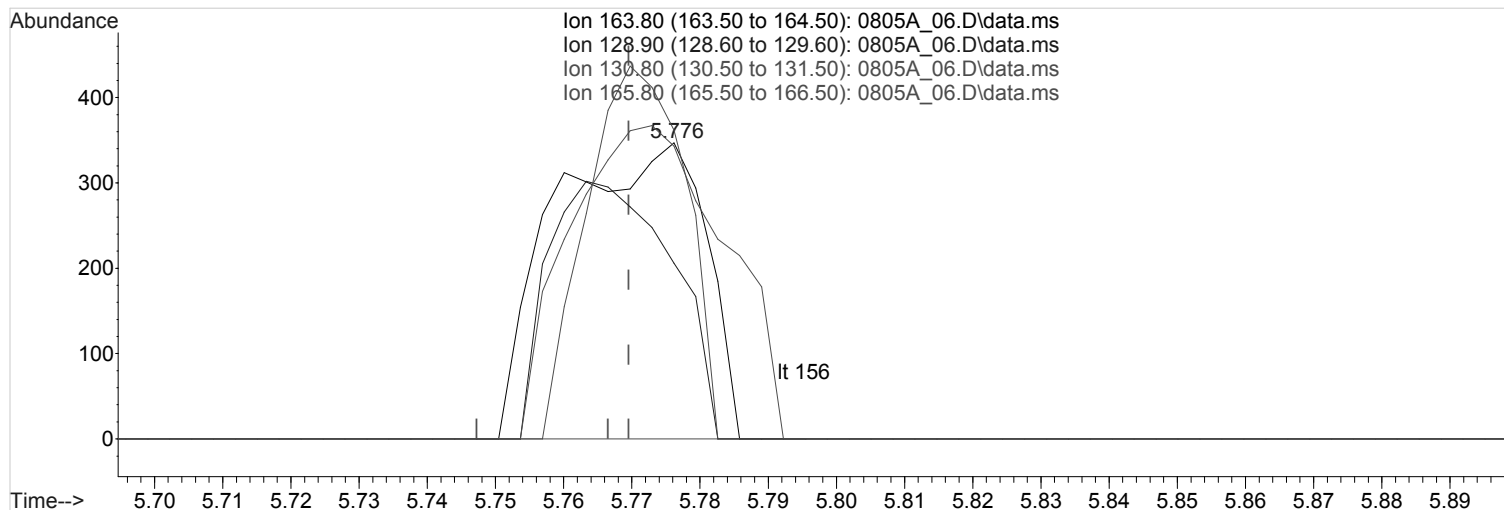
130.80	92.10	226.67#
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165.80	126.00	172.16#
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_06.D
 Acq On : 5 Aug 2020 10:47 pm
 Operator : 3527
 Sample : STD VMS 0.1 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:27:21 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:27:14 2020
 Response via : Initial Calibration



TIC: 0805A_06.D\data.ms

(65) TETRACHLOROETHENE (T,M)

5.776min (+0.007) 0.1287069 ppb m

response 533

Ion	Exp%	Act%
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163.80	100	100
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128.90	90.80	70.92#
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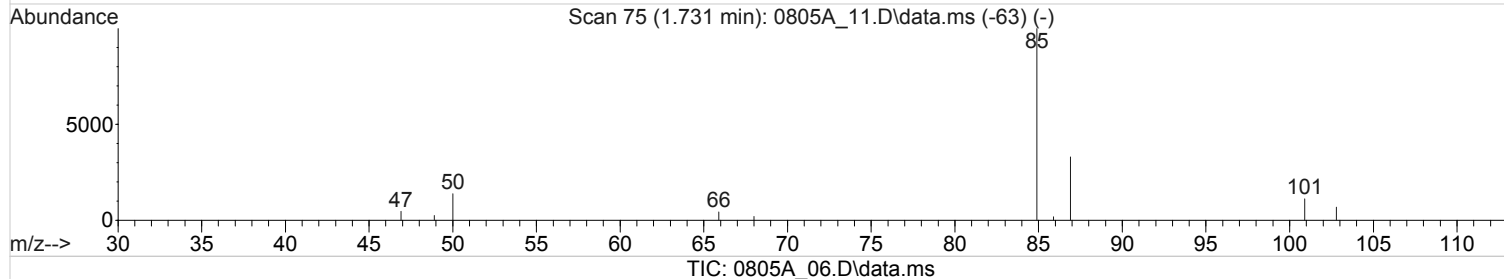
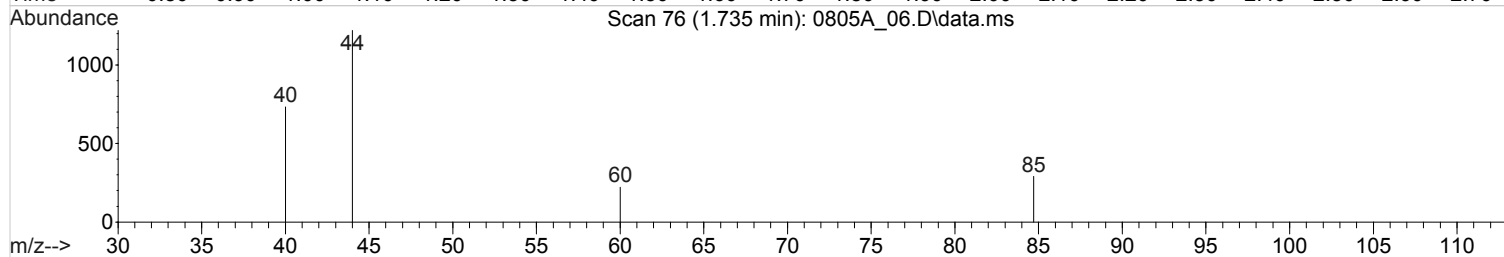
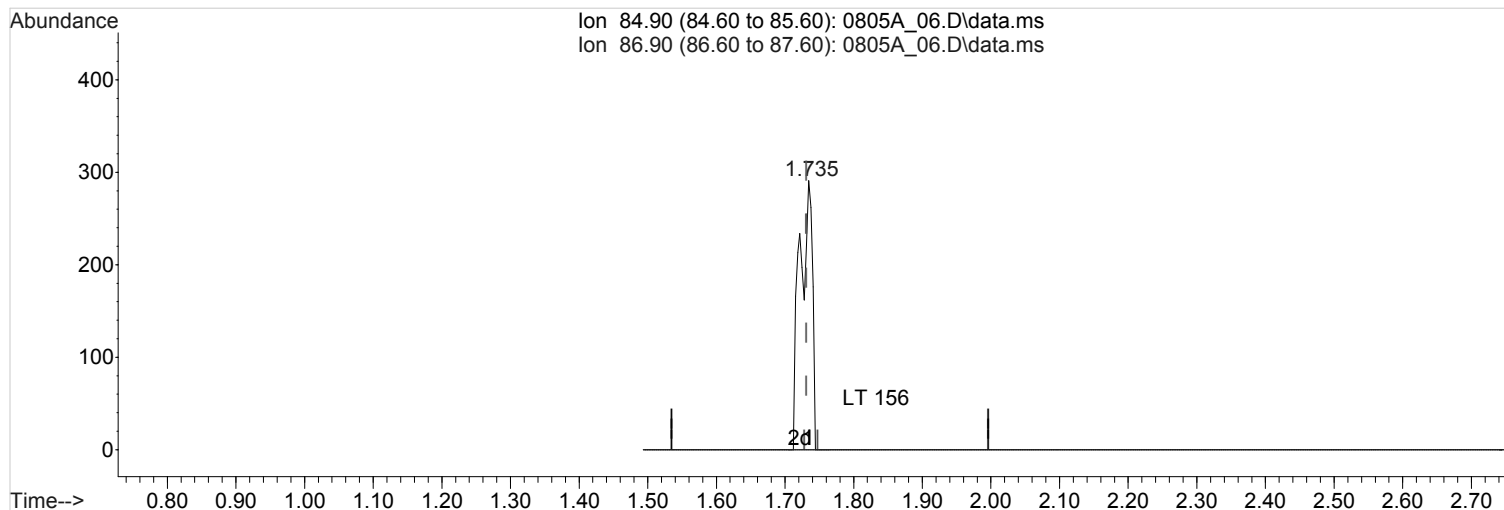
130.80	92.10	108.44
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165.80	126.00	82.36#
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_06.D
 Acq On : 5 Aug 2020 10:47 pm
 Operator : 3527
 Sample : STD VMS 0.1 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:27:21 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:27:14 2020
 Response via : Initial Calibration



(5) DICHLORODIFLUOROMETHANE (T,M)

1.735min (+0.003) 0.0632814 ppb m

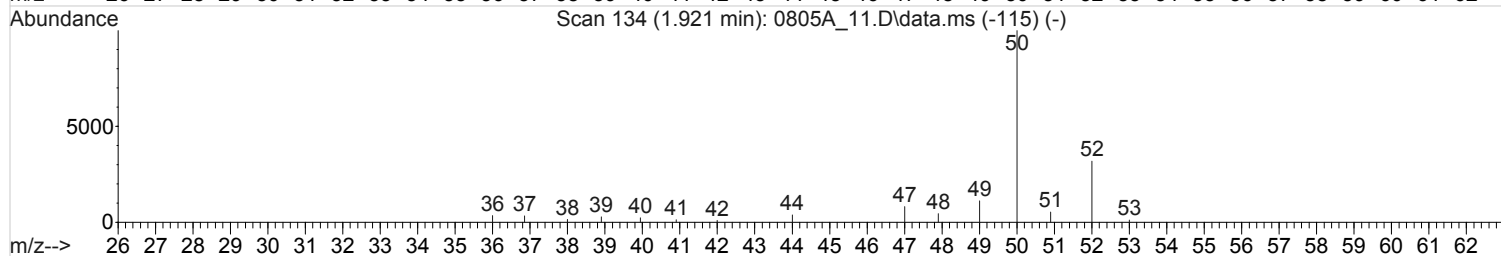
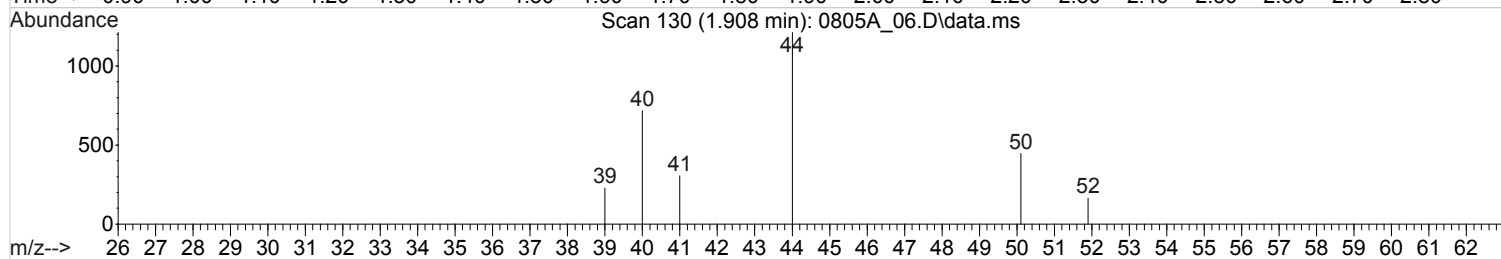
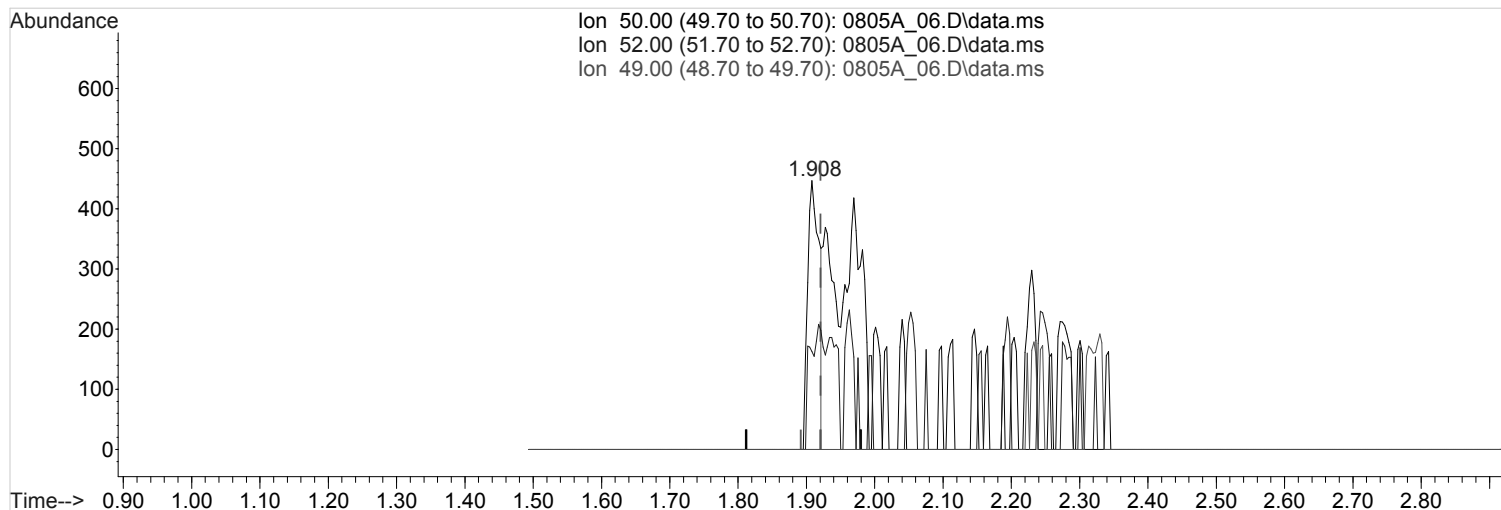
response 371

Ion	Exp%	Act%
84.90	100	100
86.90	30.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_06.D
 Acq On : 5 Aug 2020 10:47 pm
 Operator : 3527
 Sample : STD VMS 0.1 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:27:21 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:27:14 2020
 Response via : Initial Calibration



TIC: 0805A_06.D\data.ms

(6) CHLOROMETHANE (P,T,M)

1.908min (-0.013) 0.0755228 ppb

Qvalue = 51

response 525

Ion	Exp%	Act%
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50.00	100	100
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52.00	31.00	0.00#
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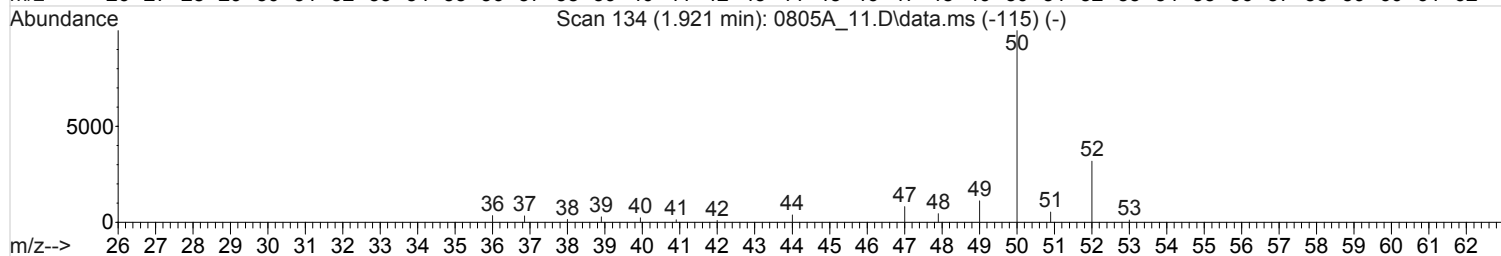
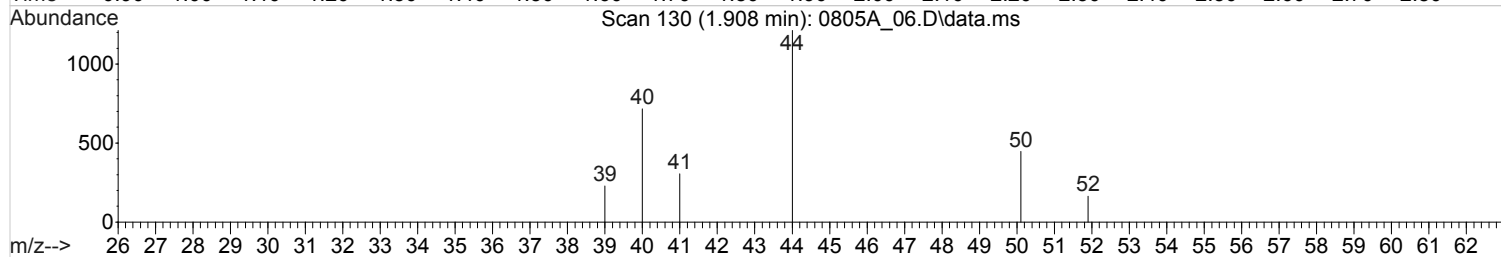
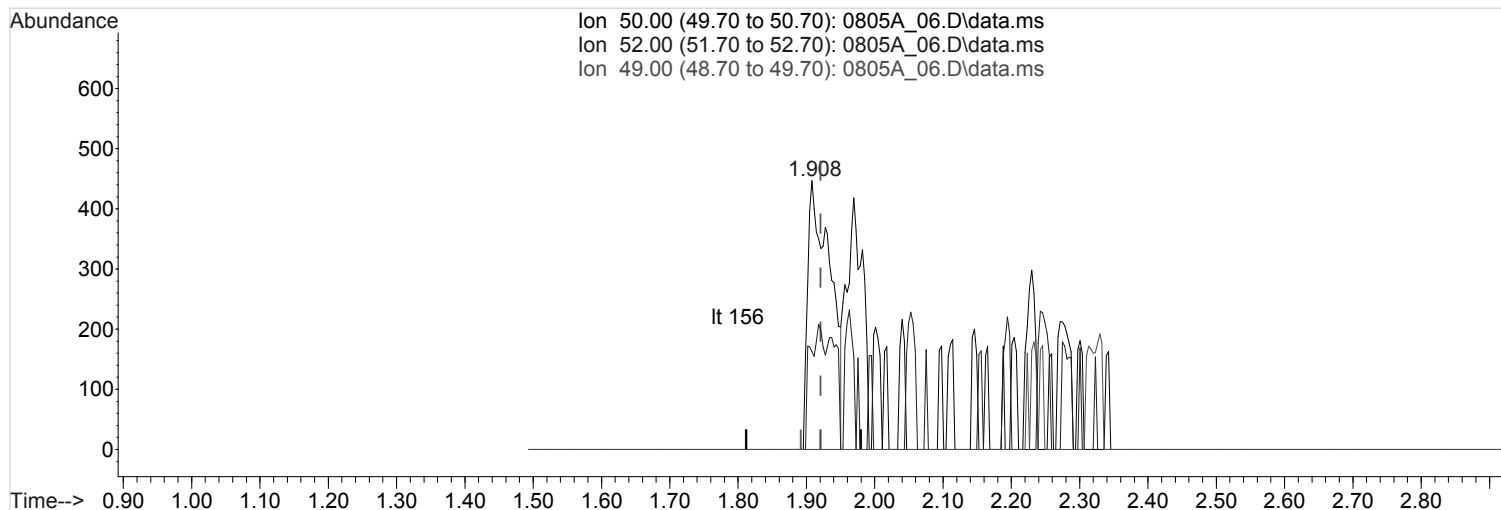
49.00	9.70	0.00#
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_06.D
 Acq On : 5 Aug 2020 10:47 pm
 Operator : 3527
 Sample : STD VMS 0.1 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:27:21 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:27:14 2020
 Response via : Initial Calibration



TIC: 0805A_06.D\data.ms

(6) CHLOROMETHANE (P,T,M)

1.908min (-0.013) 0.1473054 ppb m

response 1024

Ion	Exp%	Act%
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50.00	100	100
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52.00	31.00	0.00#
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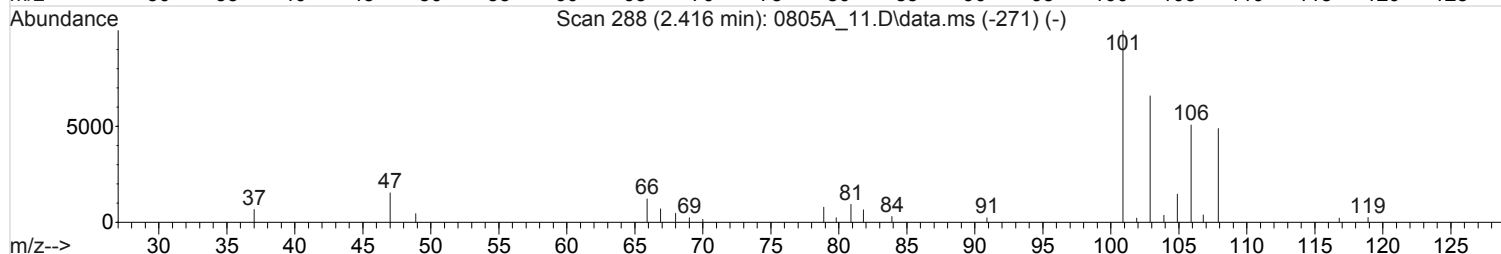
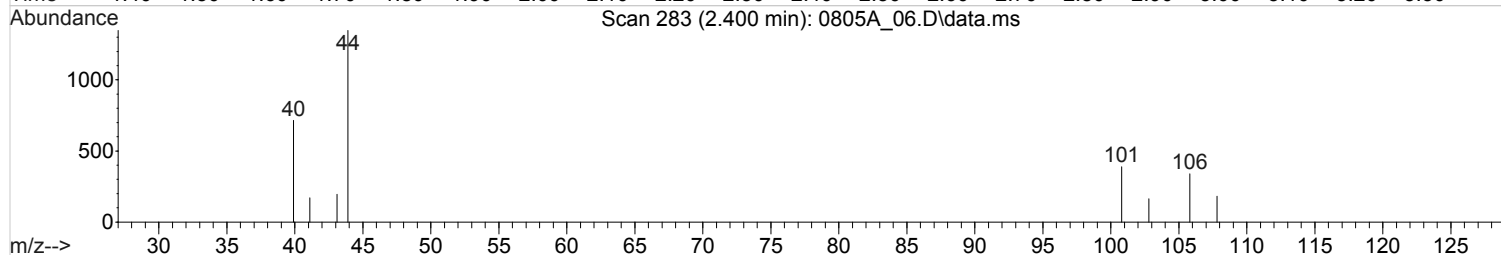
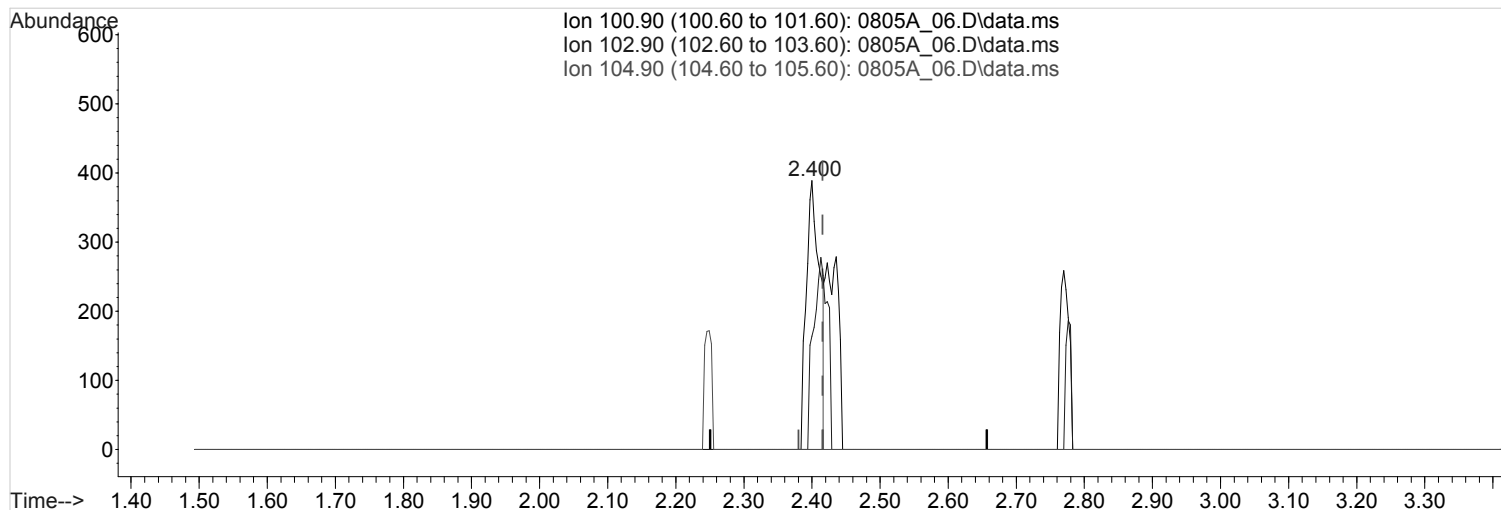
49.00	9.70	0.00#
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0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_06.D
 Acq On : 5 Aug 2020 10:47 pm
 Operator : 3527
 Sample : STD VMS 0.1 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:27:21 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:27:14 2020
 Response via : Initial Calibration



TIC: 0805A_06.D\data.ms

(12) TRICHLOROFUOROMETHANE (T,M)

2.400min (-0.016) 0.0627182 ppb

Qvalue = 86

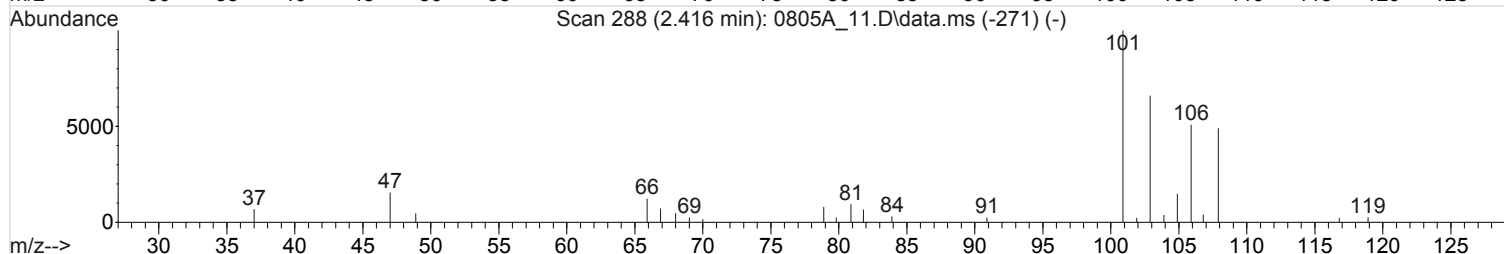
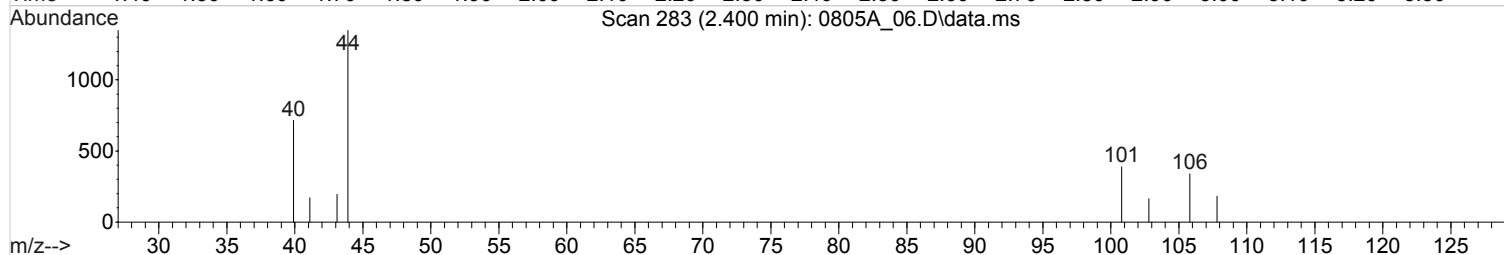
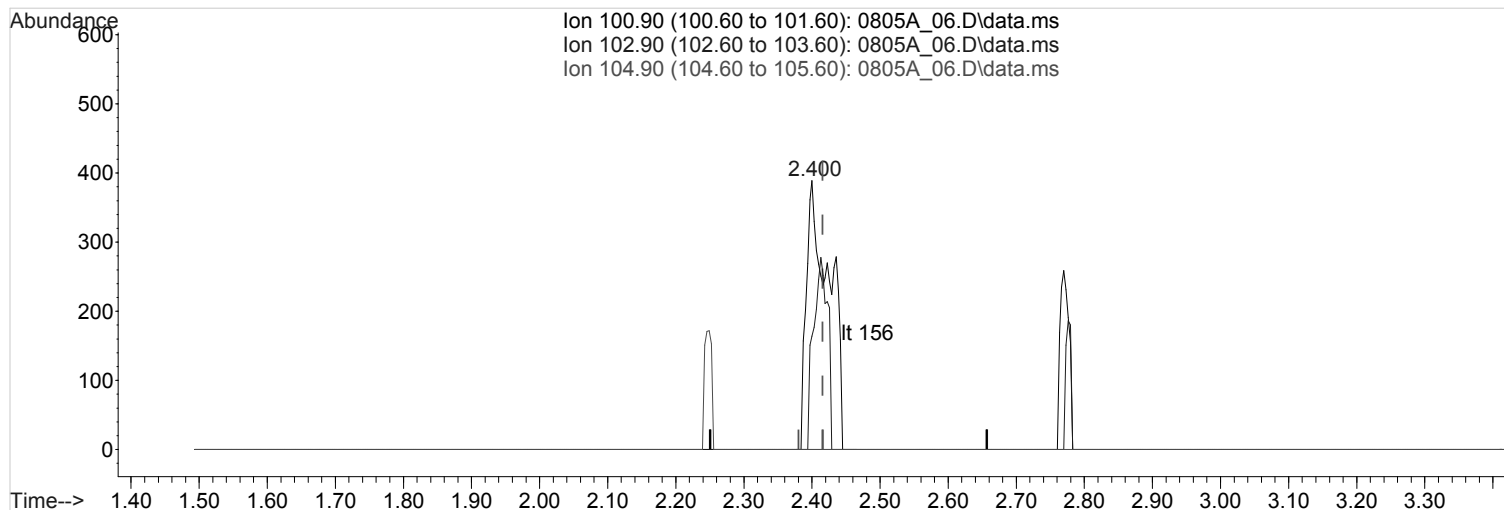
response 531

Ion	Exp%	Act%
100.90	100	100
102.90	65.20	76.27
104.90	4.90	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_06.D
 Acq On : 5 Aug 2020 10:47 pm
 Operator : 3527
 Sample : STD VMS 0.1 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:27:21 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:27:14 2020
 Response via : Initial Calibration



TIC: 0805A_06.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.400min (-0.016) 0.1064201 ppb m

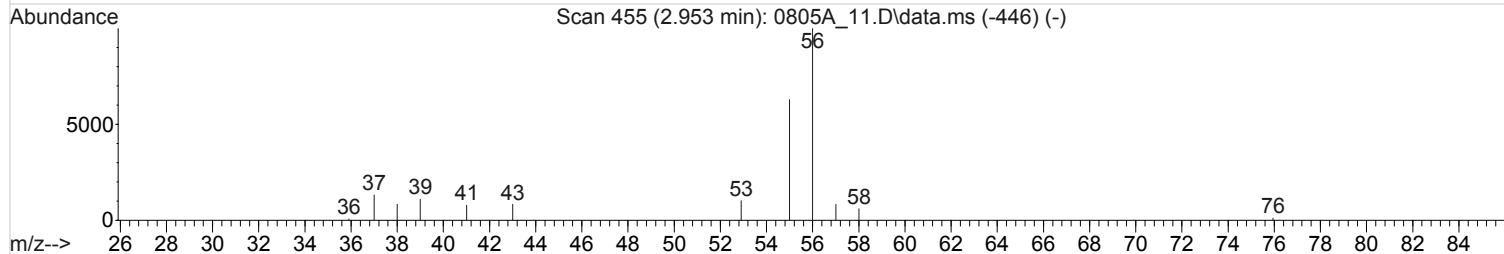
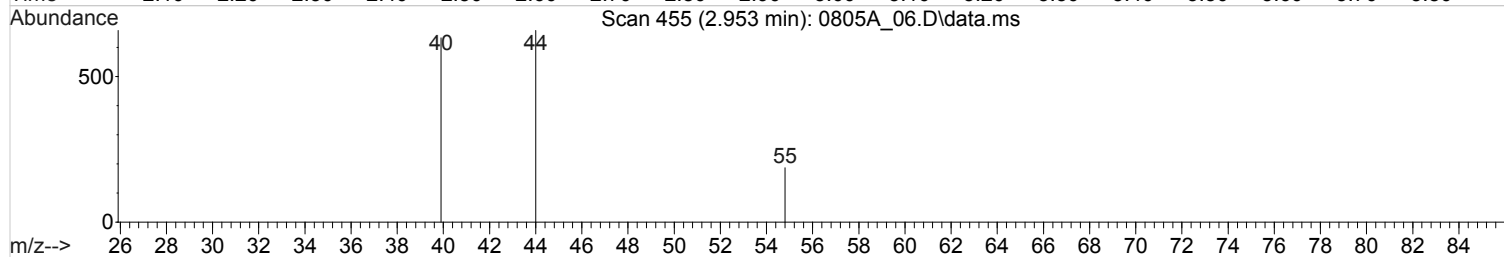
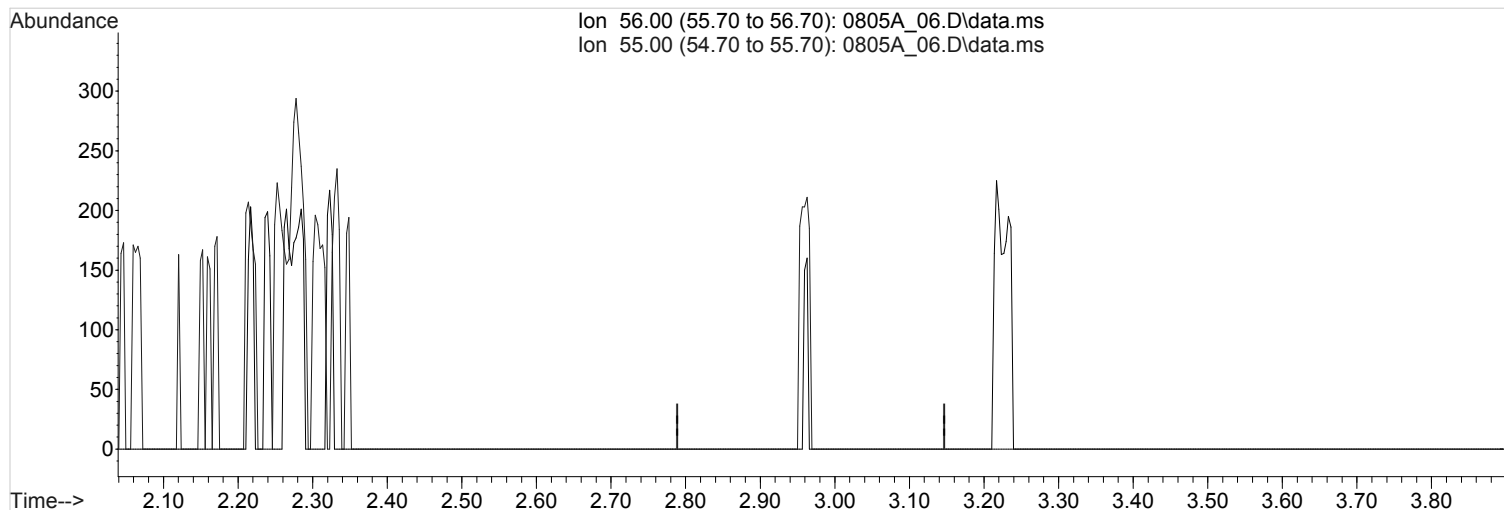
response 901

Ion	Exp%	Act%
100.90	100	100
102.90	65.20	44.95#
104.90	4.90	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_06.D
 Acq On : 5 Aug 2020 10:47 pm
 Operator : 3527
 Sample : STD VMS 0.1 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:27:21 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:27:14 2020
 Response via : Initial Calibration



TIC: 0805A_06.D\data.ms

(15) ACROLEIN (T,M)

2.953min (-2.953) 0.0000000 ppb

Qvalue = 0

response 0

Ion	Exp%	Act%
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56.00	100	0.00
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55.00	61.20	0.00#
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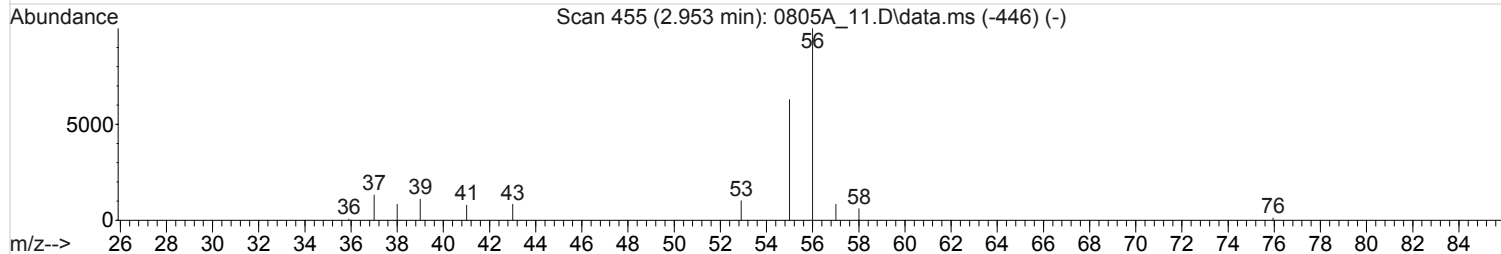
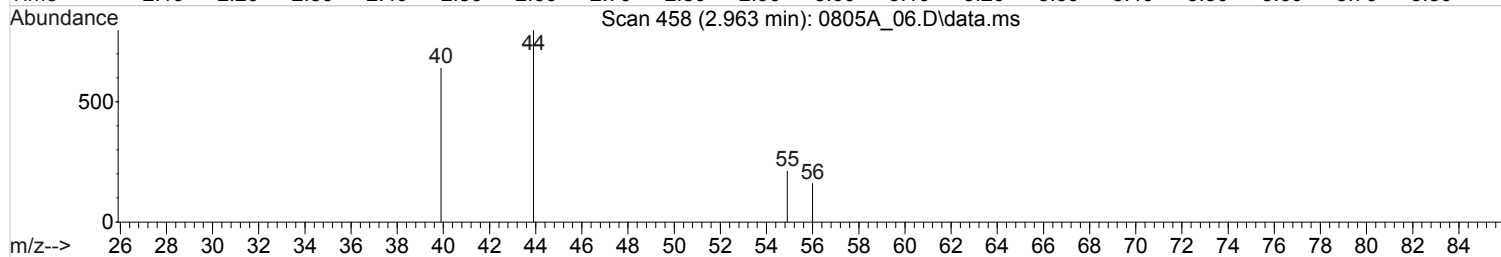
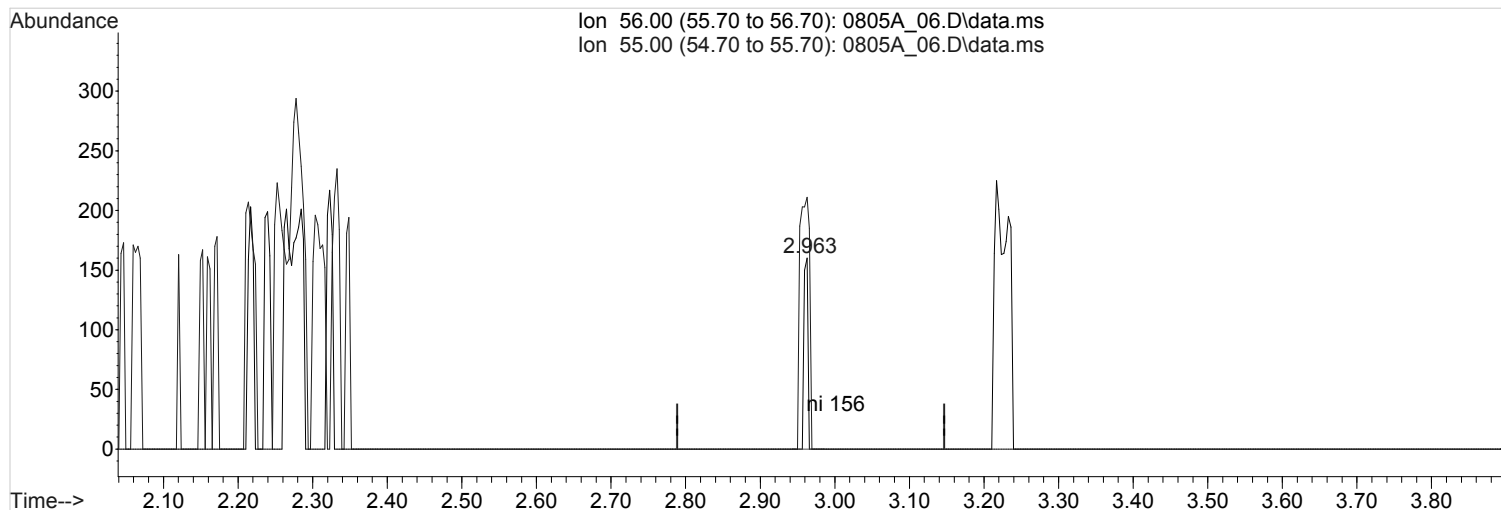
0.00	0.00	0.00
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_06.D
 Acq On : 5 Aug 2020 10:47 pm
 Operator : 3527
 Sample : STD VMS 0.1 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:27:21 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:27:14 2020
 Response via : Initial Calibration



TIC: 0805A_06.D\data.ms

(15) ACROLEIN (T,M)

2.963min (+0.010) 0.1036521 ppb m

response 60

Ion	Exp%	Act%
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56.00	100	100
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55.00	61.20	0.00#
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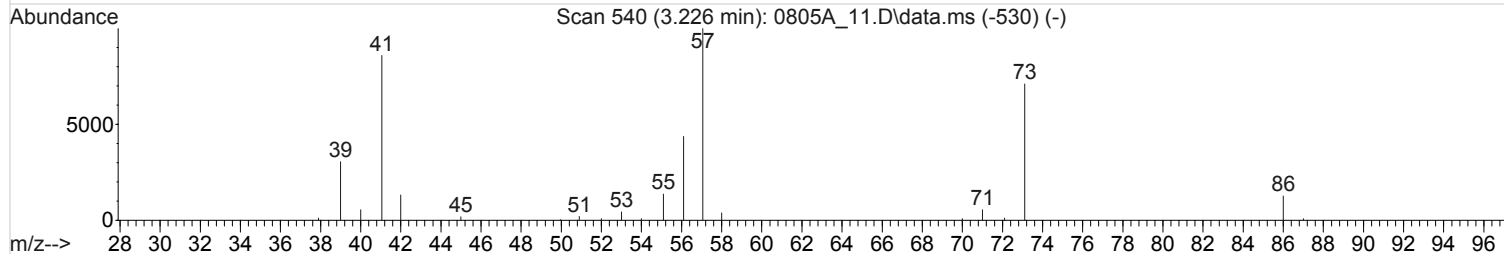
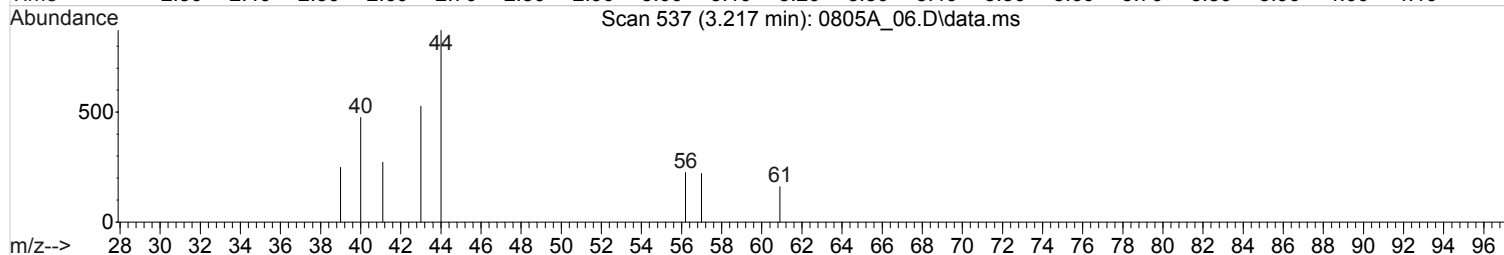
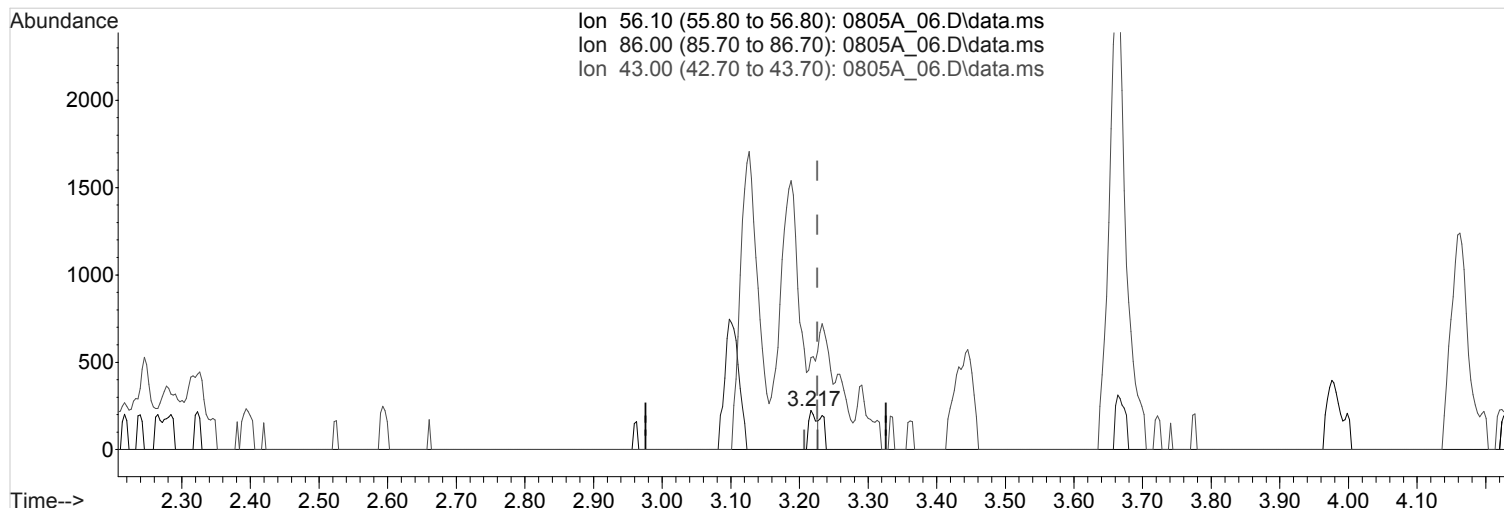
0.00	0.00	0.00
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0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_06.D
 Acq On : 5 Aug 2020 10:47 pm
 Operator : 3527
 Sample : STD VMS 0.1 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:27:21 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:27:14 2020
 Response via : Initial Calibration



TIC: 0805A_06.D\data.ms

(26) n-HEXANE (T,M)

3.217min (-0.009) 0.0548076 ppb

Qvalue = 50

response 177

Ion	Exp%	Act%
56.10	100	100
86.00	25.00	0.00#
43.00	0.00	207.34#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_07.D
 Acq On : 5 Aug 2020 11:07 pm
 Operator : 3527
 Sample : STD VMS 0.2 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 7 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:32:53 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:30:59 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	293778	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.500	82	113843	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.937	152	190232	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.56
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.50
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.94
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.410	65	94498	15.9495188	ppb	0.00
Spiked Amount	16.000		Recovery	=	99.68%	
61) TOLUENE-D8	5.480	98	290146	17.0177485	ppb	0.00
Spiked Amount	16.000	Range 90 - 115	Recovery	=	106.36%	
80) 4-BROMOFLUOROBENZENE	7.332	95	93415	16.1810062	ppb	0.00
Spiked Amount	16.000	Range 80 - 120	Recovery	=	101.13%	
Target Compounds						
2) TPH (GC/MS) LOW FRACTION	4.470	TIC	-675167m	Below Cal		
3) LRH (C5-C8)	4.000	TIC	85535m	0.0034312	ppm	
4) PROPENE	1.670	41	816	0.2760030	ppb	# 61
5) DICHLORODIFLUOROMETHANE	1.741	85	711	0.1305491	ppb	# 44
6) CHLOROMETHANE	1.915	50	2334	0.3145125	ppb	# 84
7) VINYL CHLORIDE	1.995	62	1859	0.1802295	ppb	# 65
8) 1,3-BUTADIENE	1.963	39	2140	0.2744442	ppb	90
9) BROMOMETHANE	2.233	94	2185	0.2183069	ppb	93
10) CHLOROETHANE	2.313	64	1554	0.2311012	ppb	# 74
11) VINYL BROMIDE	2.400	106	777	0.1908384	ppb	83
12) TRICHLOROFLUOROMETHANE	2.400	101	1407m	0.1661679	ppb	
13) DICHLOROFLUOROMETHANE	2.445	67	2426	0.2276336	ppb	99
14) ETHYL ETHER	2.599	59	955	0.2358687	ppb	94
15) ACROLEIN	2.953	56	238	0.4787607	ppb	# 56
17) 1,1-DICHLOROETHENE	2.750	96	793	0.2099255	ppb	# 80
18) 1,1,2-TRICHLOROTRIFLUO...	2.773	101	758	0.1989813	ppb	# 82
19) ACETONE	3.123	43	3777	1.5530767	ppb	100
20) IODOMETHANE	2.850	142	9744	1.1234273	ppb	# 92
21) CARBON DISULFIDE	2.786	76	3399	0.2716306	ppb	# 80
22) ALLYL CHLORIDE	3.033	76	2798	0.9954085	ppb	89
23) METHYLENE CHLORIDE	3.101	84	1835	0.2625675	ppb	84
24) METHYL ACETATE	3.188	43	4745	1.1182141	ppb	# 100
25) ACRYLONITRILE	3.586	53	2349	0.9962869	ppb	90
26) n-HEXANE	3.226	56	535	0.1708503	ppb	# 50
27) TRANS-1,2-DICHLOROETHENE	3.201	96	985	0.2045427	ppb	# 92
28) METHYL TERT-BUTYL ETHER	3.246	73	3090	0.2333915	ppb	86
29) TERT-BUTYL ALCOHOL	3.297	59	351m	0.6757312	ppb	
30) 1,1-DICHLOROETHANE	3.561	63	1825	0.1936677	ppb	95
31) VINYL ACETATE	3.660	43	8666	0.7184482	ppb	99
32) DI-ISOPROPYL ETHER	3.442	45	3480	0.1931486	ppb	97
33) ETHYL TERT-BUTYL ETHER	3.644	59	3108	0.1944745	ppb	91
34) 2,2-DICHLOROPROPANE	3.924	77	1250	0.2286636	ppb	# 55
35) CIS-1,2-DICHLOROETHENE	3.853	96	1367	0.2527691	ppb	# 82
36) 2-BUTANONE (MEK)	4.162	43	3543	1.0012237	ppb	100
37) BROMOCHLOROMETHANE	3.969	130	745	0.2046192	ppb	89
38) TETRAHYDROFURAN	4.101	42	475	0.2433306	ppb	# 69
39) CHLOROFORM	3.998	83	1819	0.1896885	ppb	# 96
40) CYCLOHEXANE	3.985	84	952	0.1579352	ppb	# 82

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_07.D
 Acq On : 5 Aug 2020 11:07 pm
 Operator : 3527
 Sample : STD VMS 0.2 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 7 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:32:53 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:30:59 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
41) 1,1,1-TRICHLOROETHANE	4.133	97	1658	0.2155492	ppb		97
42) CARBON TETRACHLORIDE	4.094	117	1505	0.2071413	ppb		92
43) 1,1-DICHLOROPROPENE	4.194	75	1163	0.1858927	ppb	#	82
44) 2,2,4-TRIMETHYLPENTANE	4.233	57	1853	0.1651414	ppb		97
45) n-Heptane	4.275	71	431	0.1596227	ppb	#	37
46) BENZENE	4.336	78	3935	0.1722507	ppb		95
47) TERT-AMYL METHYL ETHER	4.365	73	2971	0.2006057	ppb	#	94
49) 1,2-DICHLOROETHANE	4.451	62	1873m	0.2415633	ppb		
50) T-AMYL ALCOHOL	4.451	59	162	0.2826867	ppb	#	32
51) TRICHLOROETHENE	4.660	132	1094	0.1825204	ppb		95
52) METHYL CYCLOHEXANE	4.664	83	1141	0.1767087	ppb		94
53) TERT-AMYL ETHYL ETHER	4.744	59	2231	0.1930942	ppb		91
54) 1,2-DICHLOROPROPANE	4.969	62	765	0.2244188	ppb	#	78
55) DIBROMOMETHANE	4.908	93	881	0.2317474	ppb	#	77
56) BROMODICHLOROMETHANE	4.992	83	1382	0.2000684	ppb	#	51
57) 2-CHLOROETHYL VINYL ETHER	5.300	63	3193	0.7409158	ppb		96
58) CIS-1,3-DICHLOROPROPENE	5.365	75	1391	0.1723228	ppb	#	98
60) 4-METHYL-2-PENTANONE (...)	5.728	43	7479	0.9762625	ppb		93
62) TOLUENE	5.516	91	4883	0.2336556	ppb		98
63) TRANS-1,3-DICHLOROPROPENE	5.763	75	1320	0.1715915	ppb	#	73
64) 1,1,2-TRICHLOROETHANE	5.873	97	874	0.1971576	ppb	#	84
65) TETRACHLOROETHENE	5.770	164	847	0.1941851	ppb	#	89
66) 1,3-DICHLOROPROPANE	6.059	76	1545	0.2059865	ppb		95
67) 2-HEXANONE	6.268	58	2571	0.9117781	ppb		88
68) CHLORODIBROMOMETHANE	6.004	129	1068	0.1963016	ppb	#	86
69) 1,2-DIBROMOETHANE	6.175	107	1202	0.2316402	ppb		90
70) CHLOROBENZENE	6.512	112	3216	0.2223371	ppb	#	47
71) 1,1,1,2-TETRACHLOROETHANE	6.545	133	979	0.2086768	ppb	#	16
72) ETHYLBENZENE	6.506	106	1308	0.1783674	ppb	#	53
73) M&P-XYLENE	6.602	106	3626	0.3592014	ppb		97
74) O-XYLENE	6.908	106	1965	0.2327035	ppb		82
77) STYRENE	6.943	104	2416	0.1702645	ppb		97
78) BROMOFORM	6.985	173	807	0.1938709	ppb	#	78
79) ISOPROPYLBENZENE	7.120	105	4102	0.1883956	ppb		98
82) BROMOBENZENE	7.409	77	2015	0.2119708	ppb		97
83) 1,1,2,2-TETRACHLOROETHANE	7.442	83	1474	0.1921470	ppb	#	80
84) 1,2,3-TRICHLOROPROPANE	7.545	110	432	0.1982305	ppb	#	84
85) TRANS-1,4-DICHLORO-2-B...	7.564	53	254	0.1481470	ppb	#	29
86) N-PROPYLBENZENE	7.397	91	4959	0.1993304	ppb		97
87) 4-ETHYLTOLUENE	7.461	105	4300	0.2028421	ppb		97
88) 2-CHLOROTOLUENE	7.516	91	3591	0.2137311	ppb	#	91
89) 4-CHLOROTOLUENE	7.615	91	3153	0.2033412	ppb		93
90) 1,3,5-TRIMETHYLBENZENE	7.509	105	3543	0.1966364	ppb		94
91) TERT-BUTYLBENZENE	7.712	119	2911	0.1901194	ppb	#	86
92) 1,2,4-TRIMETHYLBENZENE	7.747	105	4178	0.2132349	ppb		97
93) SEC-BUTYLBENZENE	7.798	105	5339	0.2058714	ppb		97
94) 1,3-DICHLOROBENZENE	7.914	146	3851	0.2291290	ppb		96
95) P-ISOPROPYLTOLUENE	7.856	119	4877	0.1922788	ppb		98
96) DICYCLOPENTADIENE	7.869	66	6300	0.2150800	ppb	#	91
97) 1,4-DICHLOROBENZENE	7.943	146	4337	0.2228361	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.940	105	5663	0.2254149	ppb		91
99) 1,2-DICHLOROBENZENE	8.091	146	4454	0.2229582	ppb		93
100) N-BUTYLBENZENE	8.017	91	5755	0.2180478	ppb		93
101) 1,2-DIBROMO-3-CHLOROPR...	8.335	157	923	0.2345001	ppb	#	76
102) 1,3,5-TRICHLOROBENZENE	8.345	180	3051	0.2079036	ppb		94

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_07.D
 Acq On : 5 Aug 2020 11:07 pm
 Operator : 3527
 Sample : STD VMS 0.2 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 7 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:32:53 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:30:59 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
103) 1,2,4-TRICHLOROBENZENE	8.544	180	3308	0.2529591	ppb		93
104) HEXACHLORO-1,3-BUTADIENE	8.522	225	1262	0.2400483	ppb	#	72
105) NAPHTHALENE	8.654	128	8013	0.2138415	ppb	#	93
106) 1,2,3-TRICHLOROBENZENE	8.715	180	2459	0.1955558	ppb		95
107) 1-METHYLNAPHTHALENE	9.024	142	3101	0.1789725	ppb	#	84
108) 2-METHYLNAPHTHALENE	9.085	142	2962	0.1780081	ppb	#	75

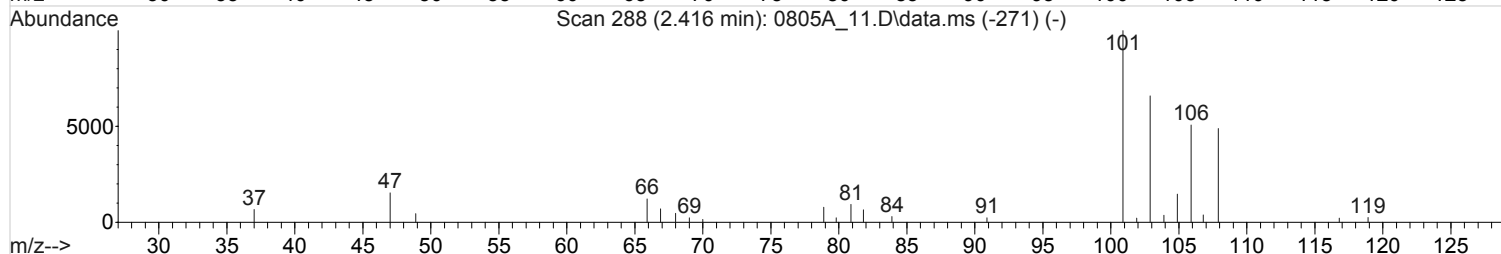
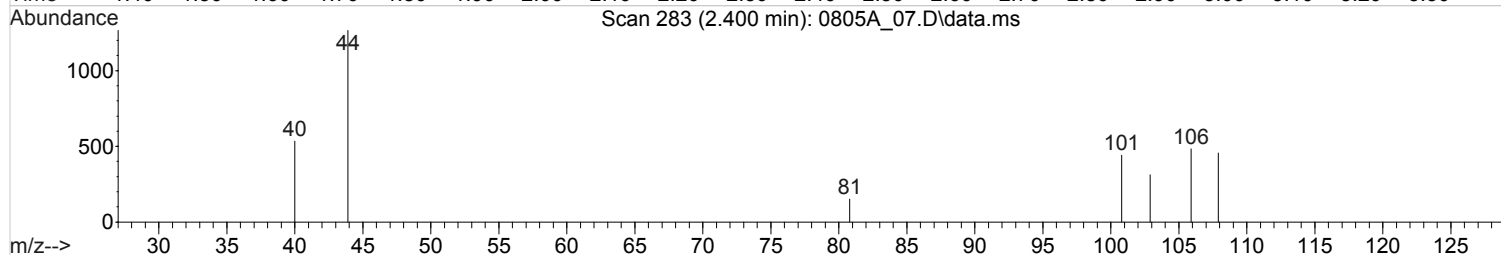
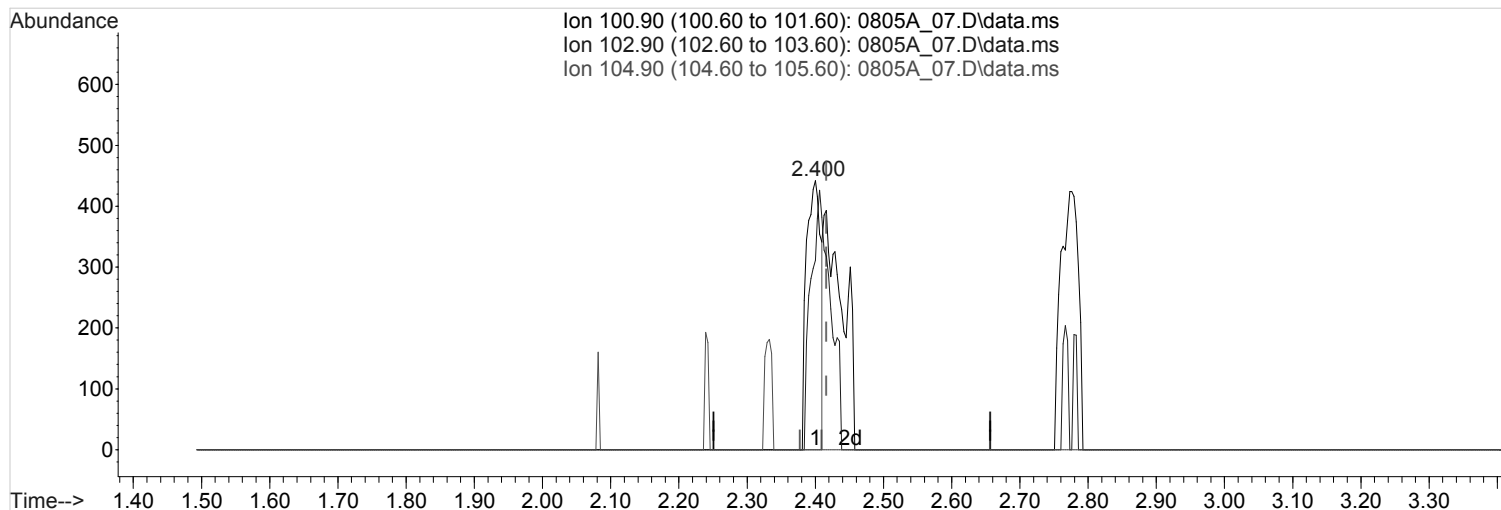
(#) = qualifier out of range (m) = manual integration (+) = signals summed

[illegible]

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_07.D
 Acq On : 5 Aug 2020 11:07 pm
 Operator : 3527
 Sample : STD VMS 0.2 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 7 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:31:05 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:30:59 2020
 Response via : Initial Calibration



TIC: 0805A_07.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.400min (-0.016) 0.0759388 ppb

Qvalue = 21

response 643

Ion	Exp%	Act%
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100.90	100	100
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102.90	65.20	131.73#
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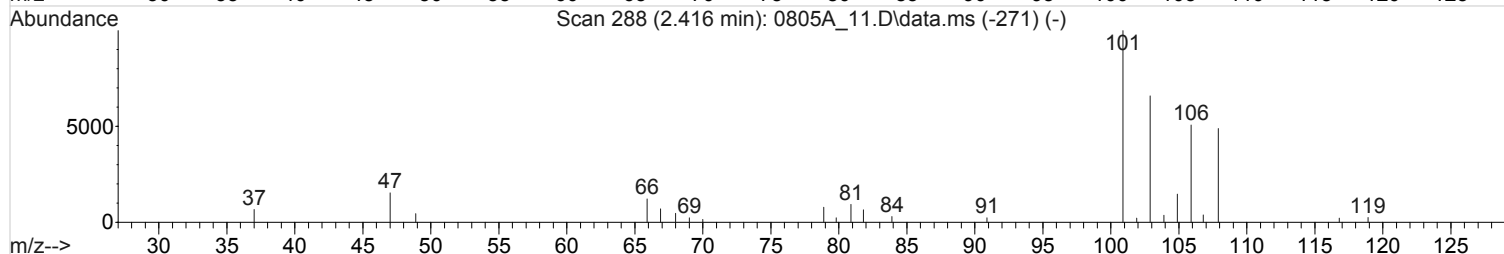
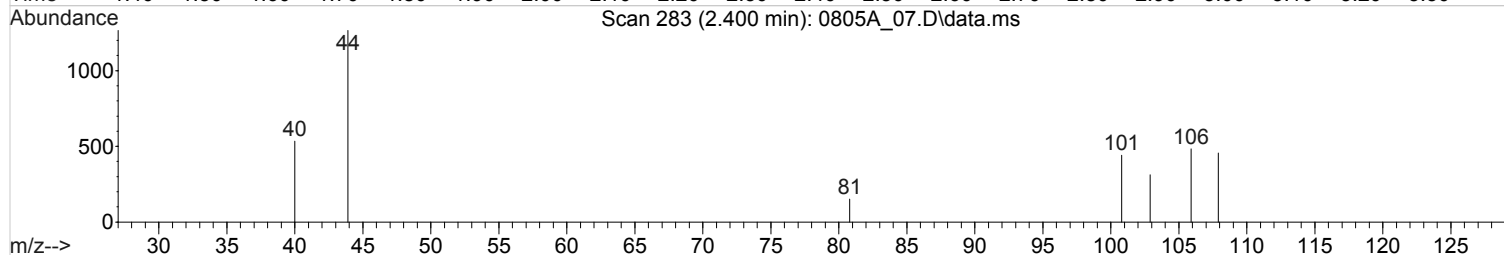
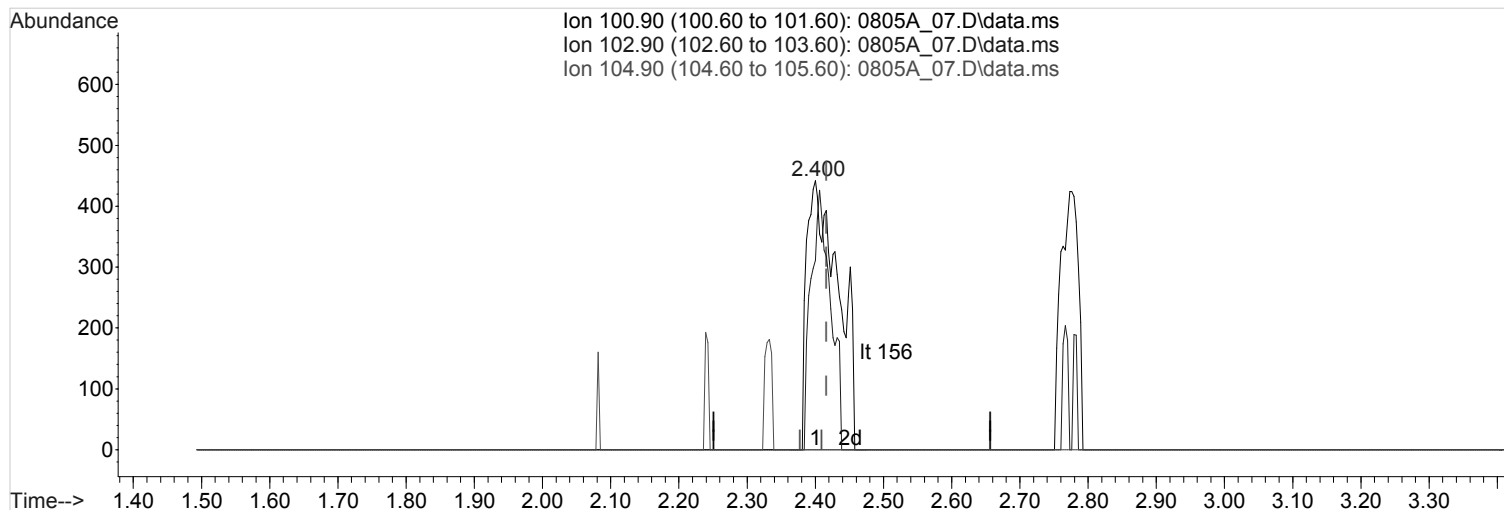
104.90	4.90	0.00#
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0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_07.D
 Acq On : 5 Aug 2020 11:07 pm
 Operator : 3527
 Sample : STD VMS 0.2 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 7 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:31:05 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:30:59 2020
 Response via : Initial Calibration



TIC: 0805A_07.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.400min (-0.016) 0.1661679 ppb m

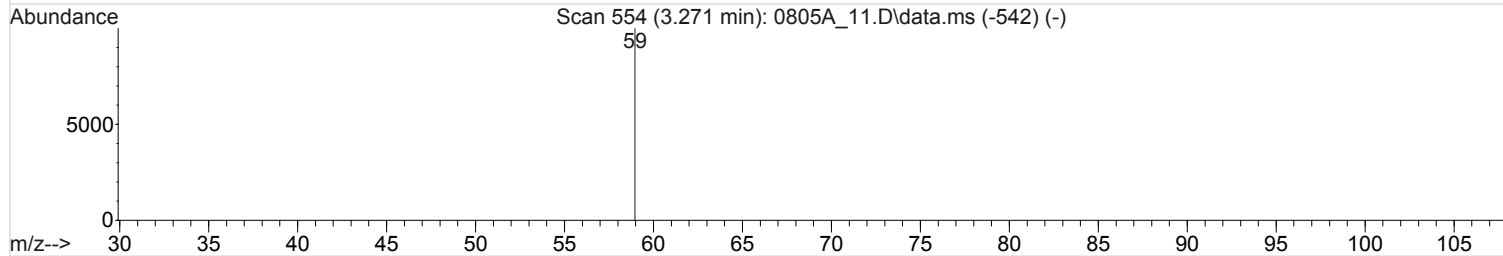
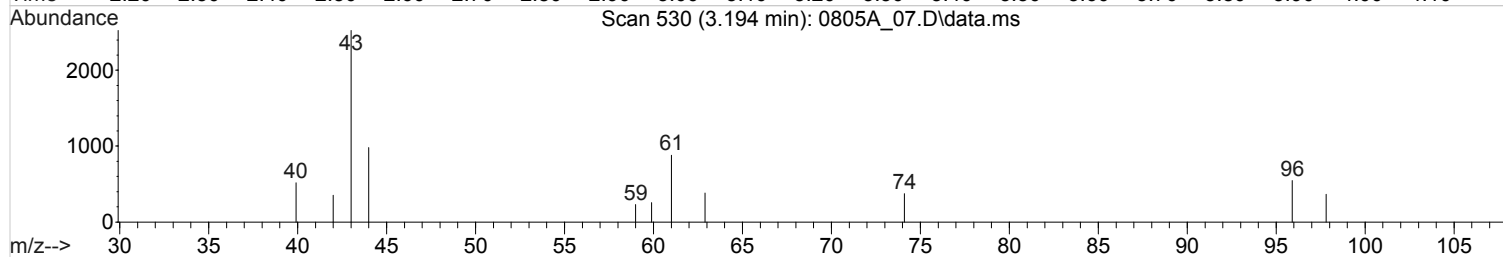
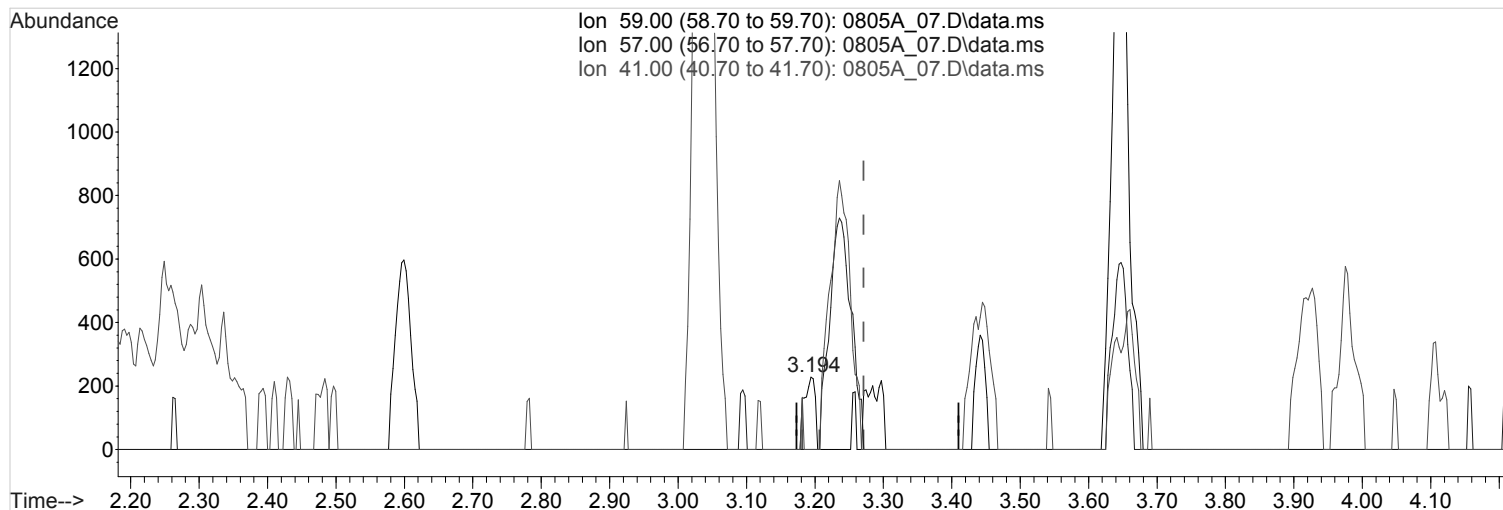
response 1407

Ion	Exp%	Act%
100.90	100	100
102.90	65.20	60.20
104.90	4.90	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
Data File : 0805A_07.D
Acq On : 5 Aug 2020 11:07 pm
Operator : 3527
Sample : STD VMS 0.2 ppb 20H05877
Misc : water SURR/IS 20G06381
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS35

Quant Time: Aug 06 12:31:05 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:30:59 2020
Response via : Initial Calibration



TIC: 0805A_07.D\data.ms

(29) TERT-BUTYL ALCOHOL (T)

3.194min (-0.077) 0.4235352 ppb

Qvalue = 100

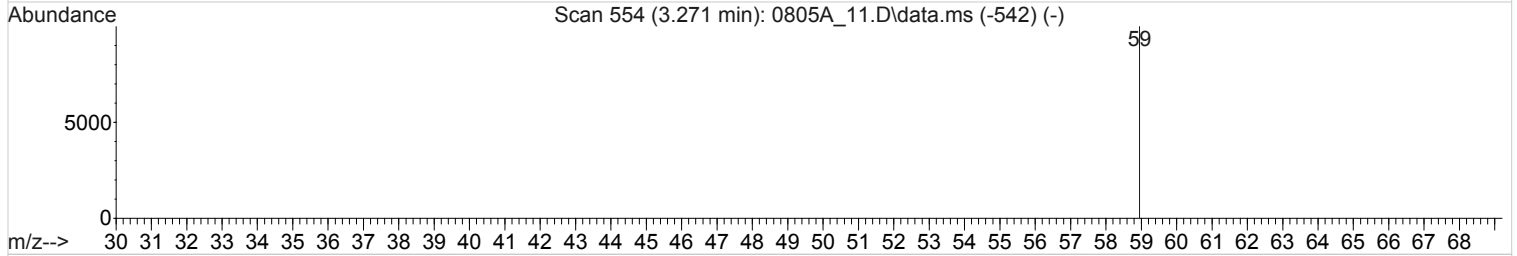
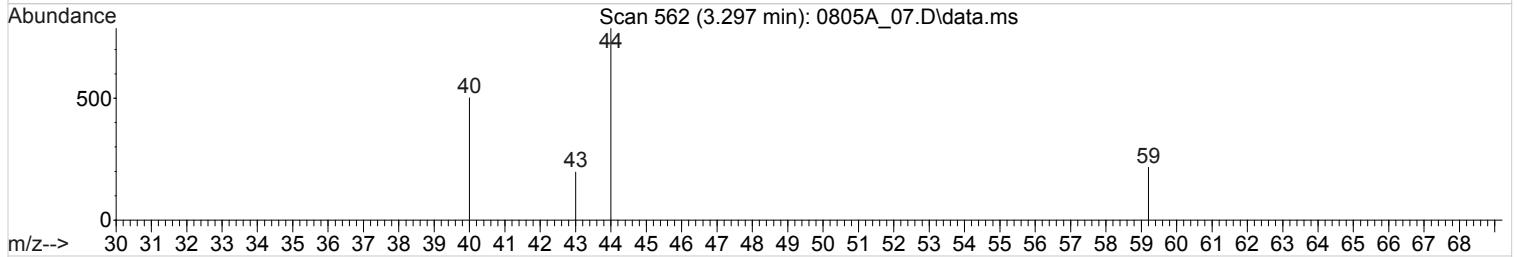
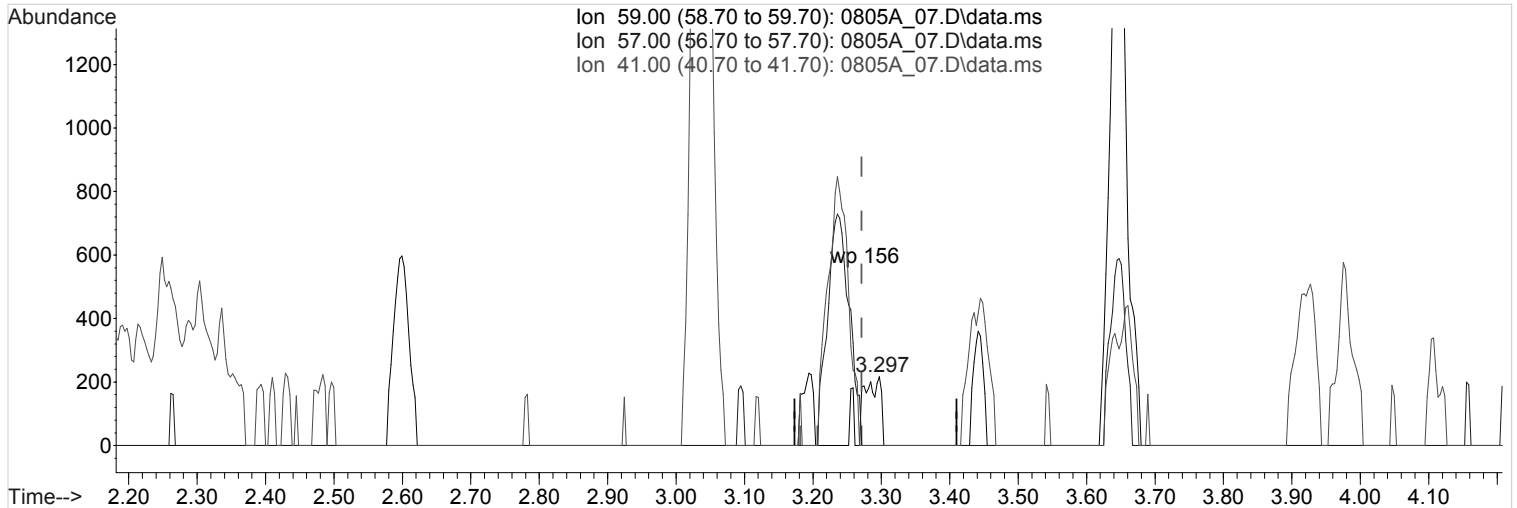
response 220

Ion	Exp%	Act%
59.00	100	100
57.00	0.00	0.00
41.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_07.D
 Acq On : 5 Aug 2020 11:07 pm
 Operator : 3527
 Sample : STD VMS 0.2 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 7 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:31:05 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:30:59 2020
 Response via : Initial Calibration



TIC: 0805A_07.D\data.ms

(29) TERT-BUTYL ALCOHOL (T)

3.297min (+0.026) 0.6757312 ppb m

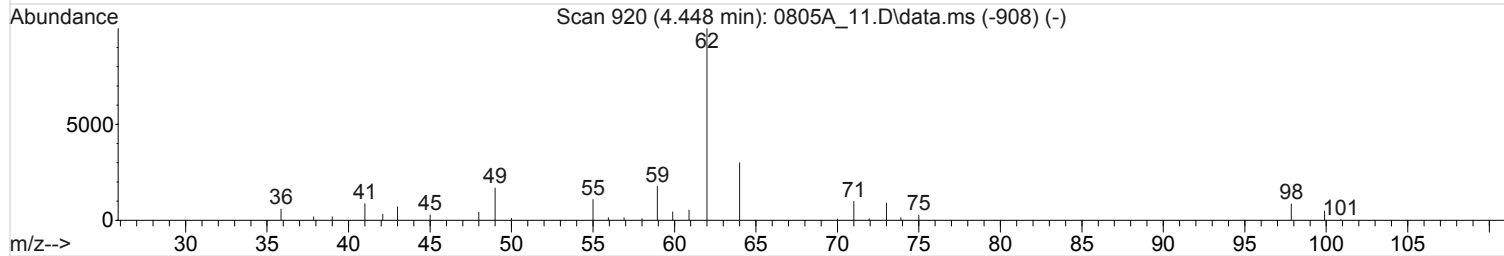
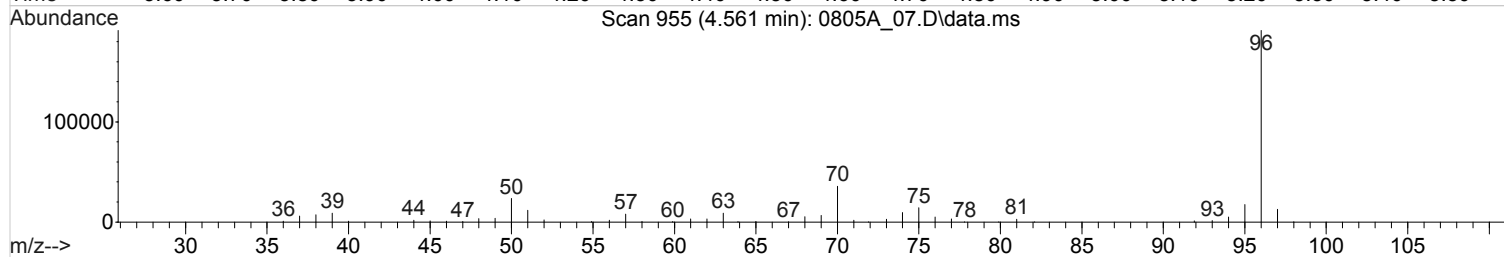
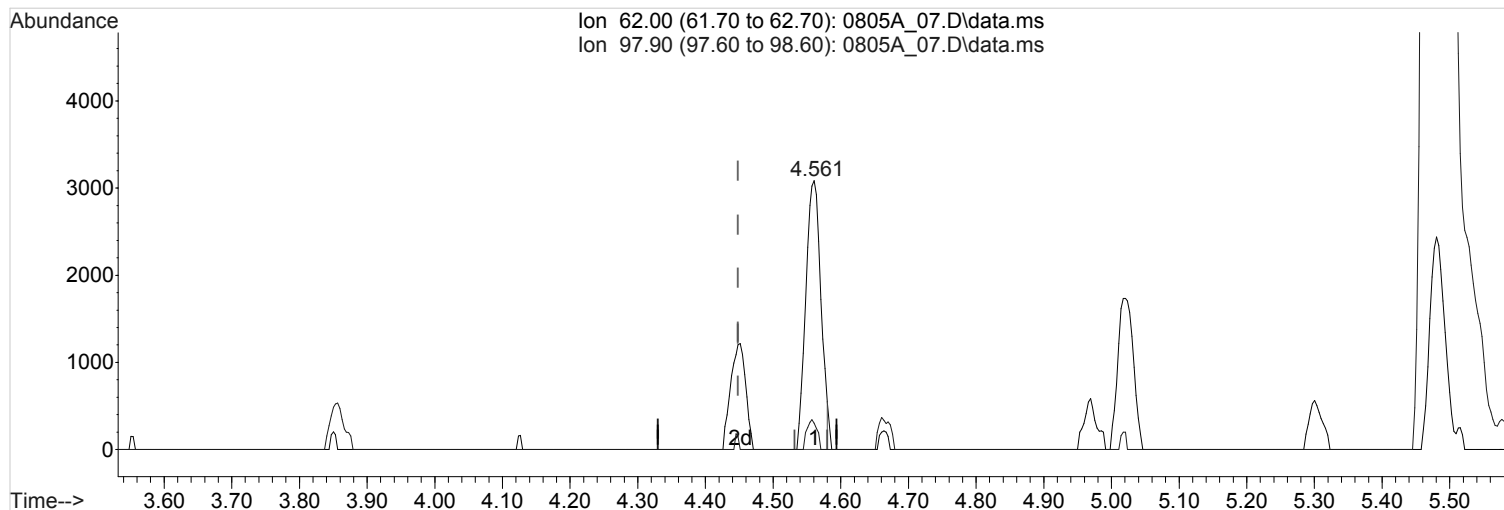
response 351

Ion	Exp%	Act%
59.00	100	100
57.00	0.00	0.00
41.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_07.D
 Acq On : 5 Aug 2020 11:07 pm
 Operator : 3527
 Sample : STD VMS 0.2 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 7 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:31:05 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:30:59 2020
 Response via : Initial Calibration



TIC: 0805A_07.D\data.ms

(49) 1,2-DICHLOROETHANE (T,M)

4.561min (+0.113) 0.6159670 ppb

Qvalue = 96

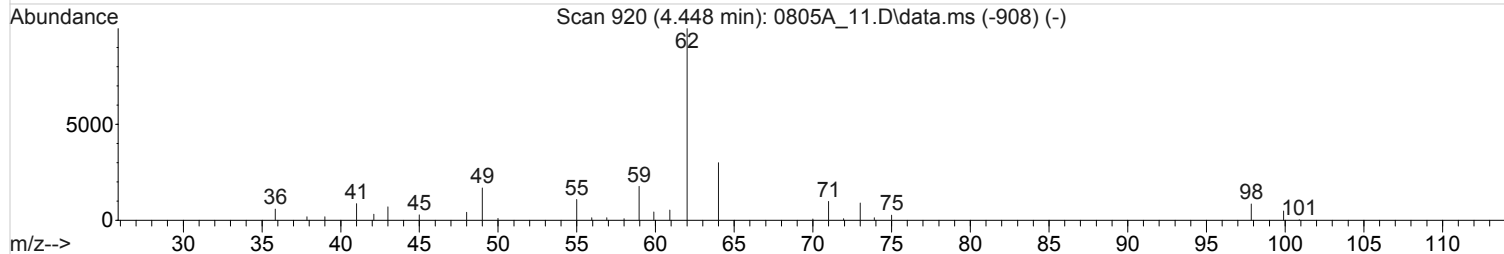
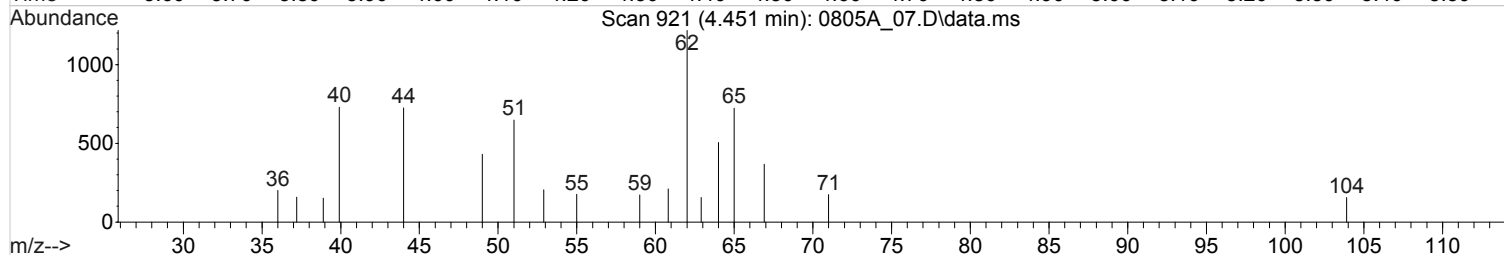
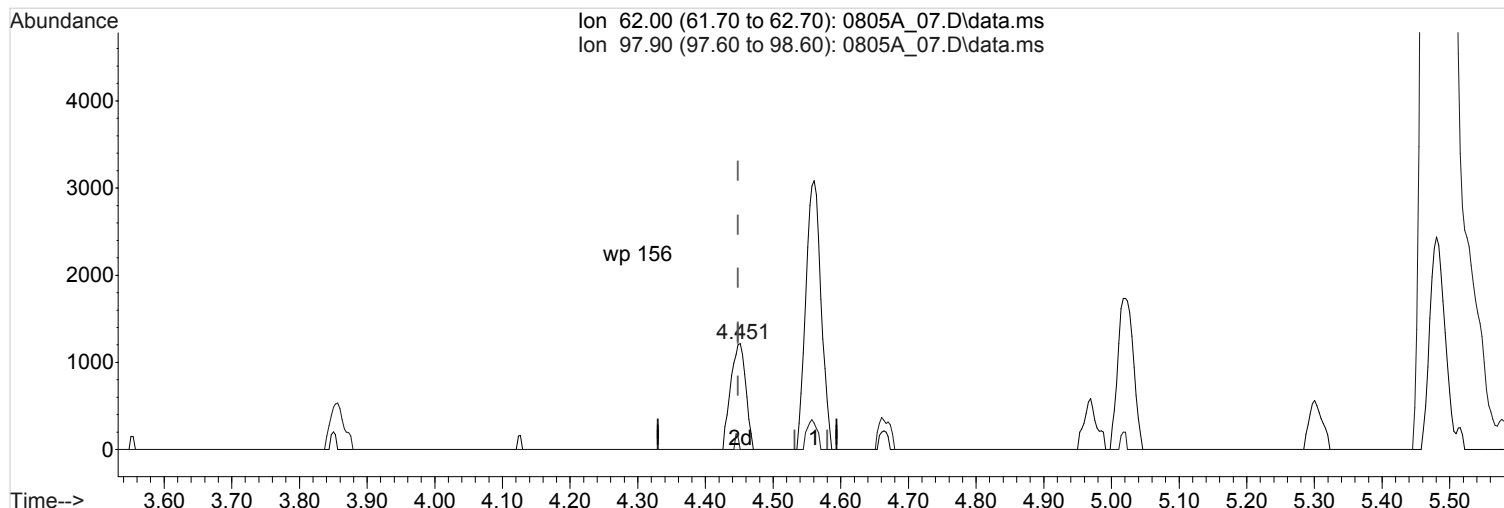
response 4776

Ion	Exp%	Act%
62.00	100	100
97.90	9.00	7.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_07.D
 Acq On : 5 Aug 2020 11:07 pm
 Operator : 3527
 Sample : STD VMS 0.2 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 7 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:31:05 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:30:59 2020
 Response via : Initial Calibration



TIC: 0805A_07.D\data.ms

(49) 1,2-DICHLOROETHANE (T,M)
 4.451min (+0.003) 0.2415633 ppb m

response 1873

Ion	Exp%	Act%
62.00	100	100
97.90	9.00	18.95#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_08.D
 Acq On : 5 Aug 2020 11:27 pm
 Operator : 3527
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 8 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:34:34 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:32:59 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	300405	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.500	82	116278	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.937	152	196539	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.56
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.50
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.94
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.410	65	96915	16.0029259	ppb	0.00
Spiked Amount	16.000		Recovery	= 100.02%		
61) TOLUENE-D8	5.480	98	298719	17.0183578	ppb	0.00
Spiked Amount	16.000	Range 90 - 115	Recovery	= 106.36%		
80) 4-BROMOFLUOROBENZENE	7.329	95	96177	16.2875291	ppb	0.00
Spiked Amount	16.000	Range 80 - 120	Recovery	= 101.80%		
Target Compounds						
2) TPH (GC/MS) LOW FRACTION	4.470	TIC	-632048m	Below Cal	Qvalue	
3) LRH (C5-C8)	4.000	TIC	197556m	0.0077502	ppm	
4) PROPENE	1.680	41	1913	0.6001938	ppb	90
5) DICHLORODIFLUOROMETHANE	1.734	85	2542	0.4802739	ppb	92
6) CHLOROMETHANE	1.921	50	4470	0.5445176	ppb	# 84
7) VINYL CHLORIDE	1.988	62	4272	0.4100999	ppb	# 78
8) 1,3-BUTADIENE	1.966	39	5343	0.6362638	ppb	84
9) BROMOMETHANE	2.233	94	5670	0.5468511	ppb	# 93
10) CHLOROETHANE	2.316	64	3654	0.5198637	ppb	94
11) VINYL BROMIDE	2.403	106	2263	0.5471330	ppb	93
12) TRICHLOROFLUOROMETHANE	2.406	101	3949	0.4673865	ppb	# 62
13) DICHLOROFLUOROMETHANE	2.448	67	5934	0.5339696	ppb	# 72
14) ETHYL ETHER	2.596	59	2389	0.5626114	ppb	96
15) ACROLEIN	2.943	56	983m	2.0893598	ppb	
16) ETHANOL	2.699	45	432m	18.5455852	ppb	
17) 1,1-DICHLOROETHENE	2.751	96	2138	0.5495962	ppb	93
18) 1,1,2-TRICHLOROTRIFLUO...	2.783	101	1892	0.4860629	ppb	# 89
19) ACETONE	3.123	43	5333	1.9874845	ppb	97
20) IODOMETHANE	2.850	142	24680	2.7344753	ppb	98
21) CARBON DISULFIDE	2.786	76	7194	0.5348589	ppb	# 89
22) ALLYL CHLORIDE	3.037	76	6953	2.4205994	ppb	100
23) METHYLENE CHLORIDE	3.101	84	3209	0.4298321	ppb	94
24) METHYL ACETATE	3.185	43	9992	2.2692522	ppb	# 100
25) ACRYLONITRILE	3.580	53	5870	2.4360267	ppb	95
26) n-HEXANE	3.226	56	1834	0.5849401	ppb	# 74
27) TRANS-1,2-DICHLOROETHENE	3.197	96	2633	0.5329713	ppb	94
28) METHYL TERT-BUTYL ETHER	3.242	73	7532	0.5449776	ppb	95
29) TERT-BUTYL ALCOHOL	3.281	59	1313	2.5920471	ppb	# 100
30) 1,1-DICHLOROETHANE	3.554	63	4806	0.5010246	ppb	# 70
31) VINYL ACETATE	3.660	43	22574	1.9203061	ppb	99
32) DI-ISOPROPYL ETHER	3.439	45	9702	0.5288705	ppb	88
33) ETHYL TERT-BUTYL ETHER	3.648	59	8319	0.5108193	ppb	96
34) 2,2-DICHLOROPROPANE	3.914	77	2934	0.5143482	ppb	# 72
35) CIS-1,2-DICHLOROETHENE	3.853	96	2951	0.5142428	ppb	89
36) 2-BUTANONE (MEK)	4.159	43	9046	2.4994979	ppb	100
37) BROMOCHLOROMETHANE	3.969	130	2168	0.5804046	ppb	97
38) TETRAHYDROFURAN	4.098	42	1183	0.5748601	ppb	# 77
39) CHLOROFORM	3.992	83	5250	0.5393745	ppb	# 98

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_08.D
 Acq On : 5 Aug 2020 11:27 pm
 Operator : 3527
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 8 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:34:34 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:32:59 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
40) CYCLOHEXANE	3.979	84	2561	0.4283638	ppb	#	73
41) 1,1,1-TRICHLOROETHANE	4.130	97	3913	0.4920246	ppb		97
42) CARBON TETRACHLORIDE	4.095	117	3355	0.4492883	ppb		94
43) 1,1-DICHLOROPROPENE	4.188	75	3196	0.5046611	ppb		91
44) 2,2,4-TRIMETHYLPENTANE	4.230	57	5622	0.5024976	ppb		96
45) n-Heptane	4.271	71	1334	0.4999769	ppb	#	81
46) BENZENE	4.336	78	10813	0.4710563	ppb		99
47) TERT-AMYL METHYL ETHER	4.365	73	7659	0.5055184	ppb		97
49) 1,2-DICHLOROETHANE	4.445	62	4457	0.5459366	ppb	#	88
50) T-AMYL ALCOHOL	4.455	59	1290	2.4527022	ppb	#	53
51) TRICHLOROETHENE	4.660	132	2894	0.4773922	ppb		91
52) METHYL CYCLOHEXANE	4.664	83	2909	0.4480371	ppb	#	81
53) TERT-AMYL ETHYL ETHER	4.747	59	6286	0.5346920	ppb		92
54) 1,2-DICHLOROPROPANE	4.969	62	1886	0.5317922	ppb		92
55) DIBROMOMETHANE	4.914	93	2200	0.5533952	ppb		88
56) BROMODICHLOROMETHANE	4.992	83	3921	0.5550833	ppb	#	90
57) 2-CHLOROETHYL VINYL ETHER	5.300	63	9549	2.2501893	ppb		98
58) CIS-1,3-DICHLOROPROPENE	5.368	75	3844	0.4750977	ppb	#	98
60) 4-METHYL-2-PENTANONE (...)	5.728	43	19311	2.4763490	ppb		99
62) TOLUENE	5.516	91	12601	0.5764829	ppb		99
63) TRANS-1,3-DICHLOROPROPENE	5.770	75	3730	0.4845546	ppb	#	87
64) 1,1,2-TRICHLOROETHANE	5.879	97	2956	0.6541810	ppb		92
65) TETRACHLOROETHENE	5.770	164	2313	0.5213442	ppb		95
66) 1,3-DICHLOROPROPANE	6.062	76	4408	0.5729377	ppb		95
67) 2-HEXANONE	6.268	58	6431	2.2614274	ppb		95
68) CHLORODIBROMOMETHANE	5.998	129	3013	0.5436373	ppb		97
69) 1,2-DIBROMOETHANE	6.178	107	3024	0.5579486	ppb		97
70) CHLOROBENZENE	6.512	112	7579	0.5049426	ppb	#	72
71) 1,1,1,2-TETRACHLOROETHANE	6.541	133	2708	0.5616498	ppb	#	16
72) ETHYLBENZENE	6.503	106	3912	0.5304916	ppb		97
73) M&P-XYLENE	6.599	106	9198	0.9036184	ppb		88
74) O-XYLENE	6.908	106	4067	0.4607815	ppb		84
77) STYRENE	6.943	104	6791	0.4787330	ppb		99
78) BROMOFORM	6.988	173	1990	0.4701176	ppb		94
79) ISOPROPYLBENZENE	7.120	105	11505	0.5216574	ppb		98
82) BROMOBENZENE	7.410	77	5555	0.5608184	ppb		92
83) 1,1,2,2-TETRACHLOROETHANE	7.442	83	3879	0.4921909	ppb	#	92
84) 1,2,3-TRICHLOROPROPANE	7.541	110	1262	0.5612162	ppb	#	93
85) TRANS-1,4-DICHLORO-2-B...	7.551	53	513	0.3026879	ppb	#	58
86) N-PROPYLBENZENE	7.397	91	12975	0.5050442	ppb		96
87) 4-ETHYLTOLUENE	7.461	105	11066	0.5042366	ppb		92
88) 2-CHLOROTOLUENE	7.516	91	8637	0.4927326	ppb		92
89) 4-CHLOROTOLUENE	7.615	91	7948	0.4949473	ppb		98
90) 1,3,5-TRIMETHYLBENZENE	7.509	105	9000	0.4846349	ppb		94
91) TERT-BUTYLBENZENE	7.705	119	8485	0.5401903	ppb		98
92) 1,2,4-TRIMETHYLBENZENE	7.744	105	10059	0.4922585	ppb		93
93) SEC-BUTYLBENZENE	7.799	105	15055	0.5595438	ppb		100
94) 1,3-DICHLOROBENZENE	7.911	146	9687	0.5464964	ppb		93
95) P-ISOPROPYLTOLUENE	7.856	119	12869	0.4938103	ppb		96
96) DICYCLOPENTADIENE	7.866	66	16387	0.5357236	ppb		98
97) 1,4-DICHLOROBENZENE	7.943	146	10424	0.5100803	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.940	105	13037	0.4933274	ppb		94
99) 1,2-DICHLOROBENZENE	8.088	146	11827	0.5637915	ppb		99
100) N-BUTYLBENZENE	8.017	91	15912	0.5761069	ppb		94
101) 1,2-DIBROMO-3-CHLOROPR...	8.335	157	2244	0.5385506	ppb		99

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_08.D
 Acq On : 5 Aug 2020 11:27 pm
 Operator : 3527
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 8 Sample Multiplier: 1
 InstName : VOCMS35

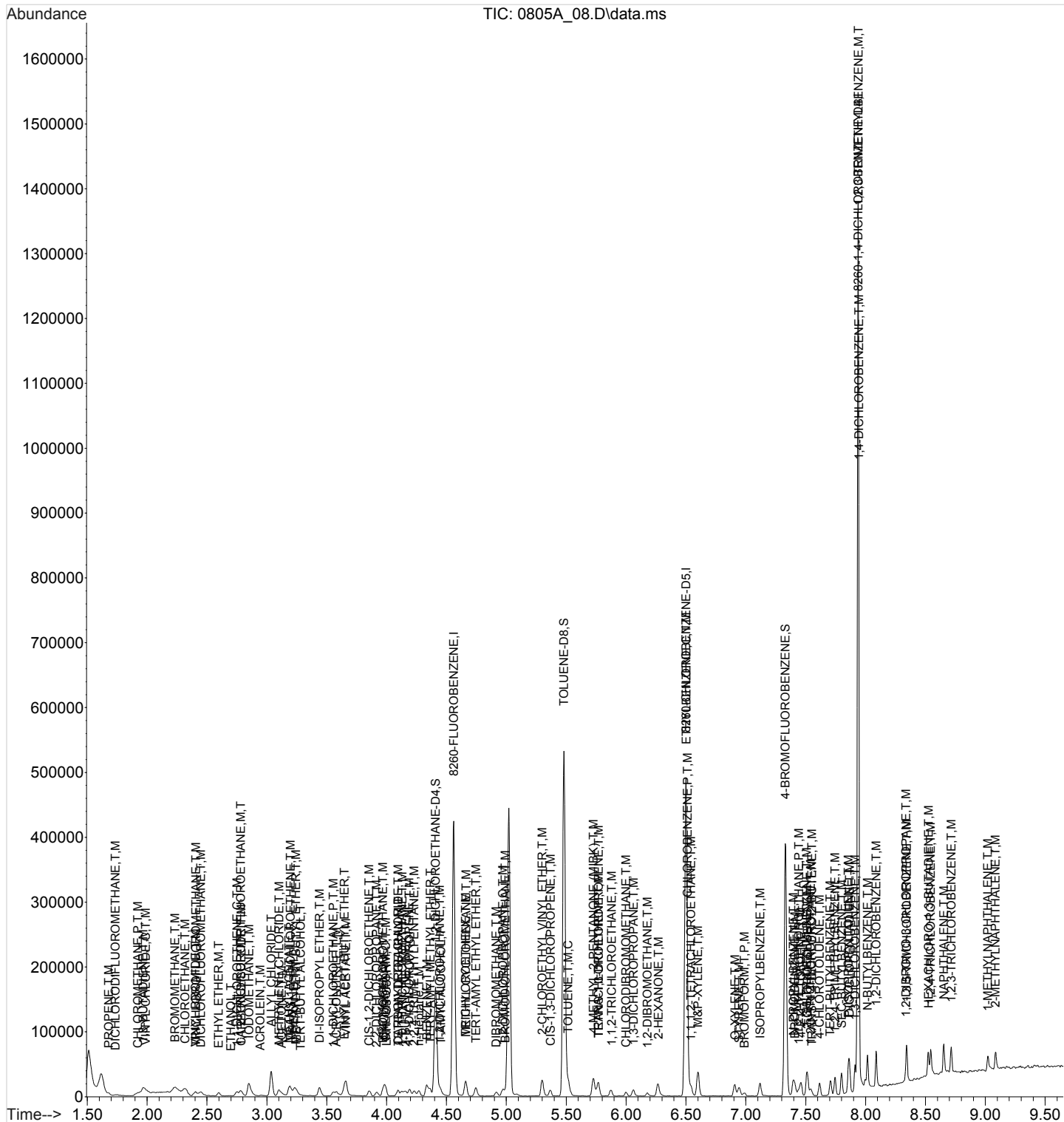
Quant Time: Aug 06 12:34:34 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:32:59 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
102) 1,3,5-TRICHLOROBENZENE	8.345	180	8304	0.5441152	ppb		95
103) 1,2,4-TRICHLOROBENZENE	8.544	180	7542	0.5378743	ppb	#	94
104) HEXACHLORO-1,3-BUTADIENE	8.525	225	3351	0.5997903	ppb		94
105) NAPHTHALENE	8.654	128	21818	0.5580511	ppb		100
106) 1,2,3-TRICHLOROBENZENE	8.715	180	7478	0.5774486	ppb		99
107) 1-METHYLNAPHTHALENE	9.020	142	7953	0.4510480	ppb		96
108) 2-METHYLNAPHTHALENE	9.085	142	8436	0.4985427	ppb		94

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

Data Path : C:\msdchem\1\data\080520a\
Data File : 0805A_08.D
Acq On : 5 Aug 2020 11:27 pm
Operator : 3527
Sample : STD VMS 0.5 ppb 20H05877
Misc : water SURR/IS 20G06381
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS35

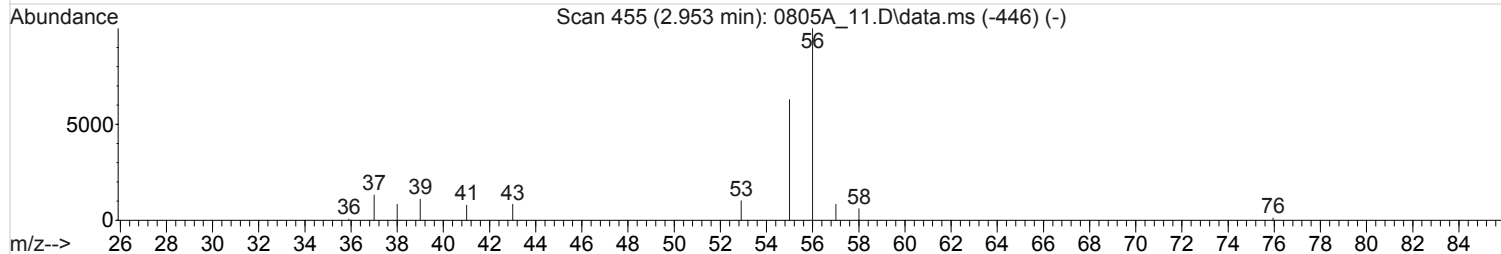
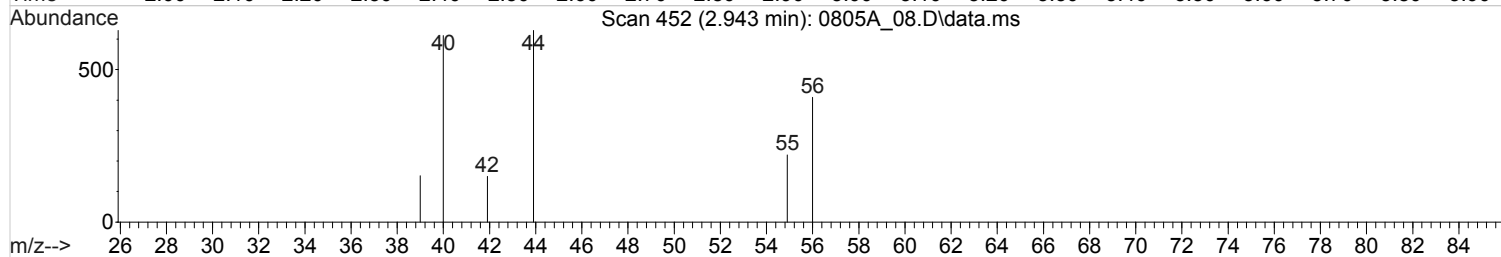
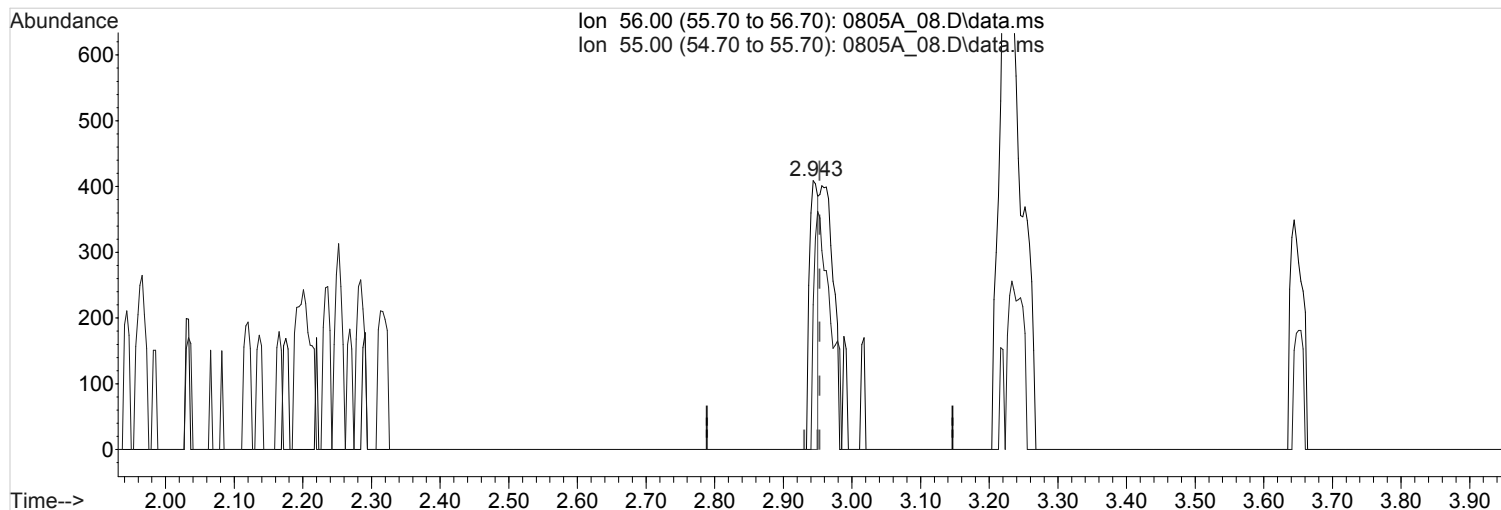
Quant Time: Aug 06 12:34:34 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:32:59 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_08.D
 Acq On : 5 Aug 2020 11:27 pm
 Operator : 3527
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 8 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:33:05 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:32:59 2020
 Response via : Initial Calibration



TIC: 0805A_08.D\data.ms

(15) ACROLEIN (T,M)

2.943min (-0.010) 0.7417971 ppb

Qvalue = 1

response 349

Ion	Exp%	Act%
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56.00	100	100
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55.00	61.20	175.36#
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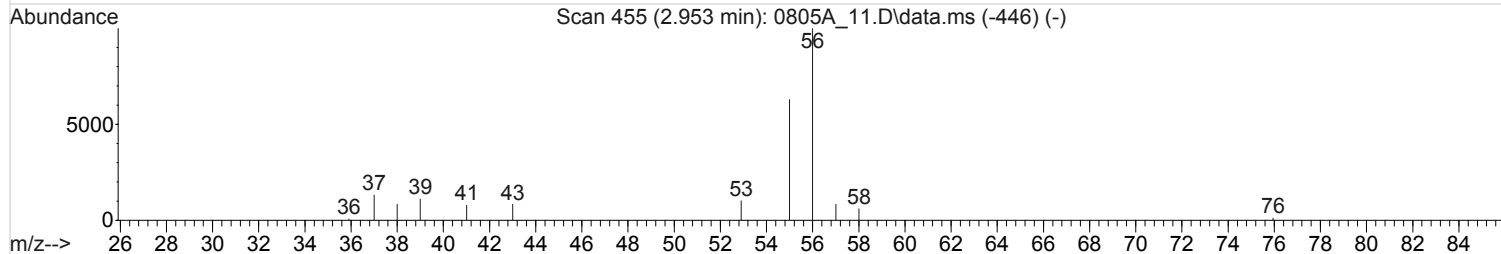
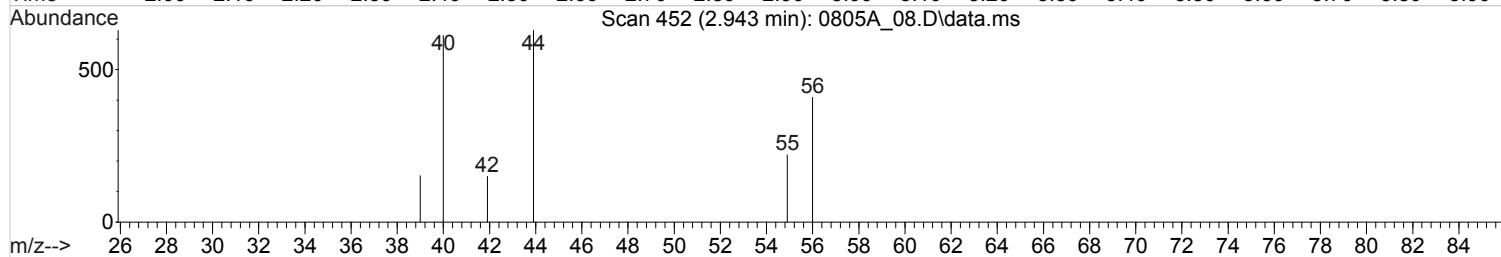
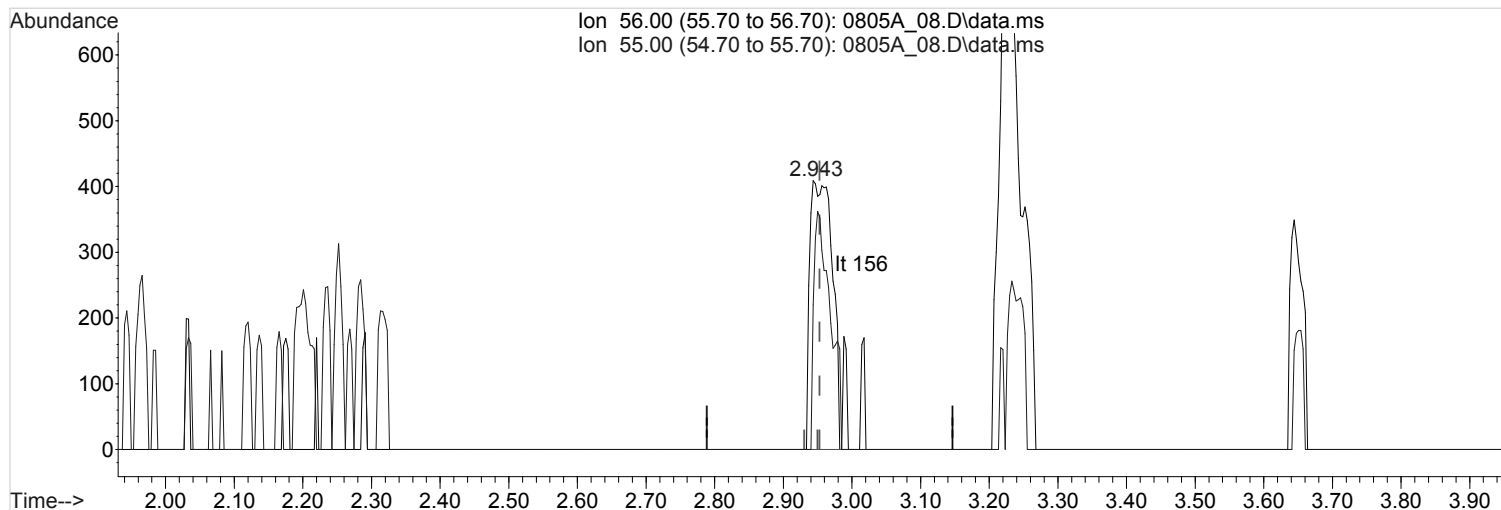
0.00	0.00	0.00
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_08.D
 Acq On : 5 Aug 2020 11:27 pm
 Operator : 3527
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 8 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:33:05 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:32:59 2020
 Response via : Initial Calibration



TIC: 0805A_08.D\data.ms

(15) ACROLEIN (T,M)

2.943min (-0.010) 2.0893598 ppb m

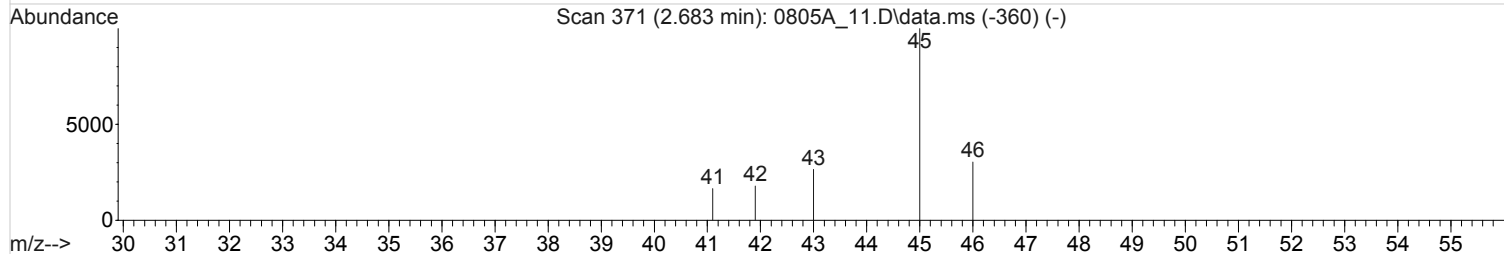
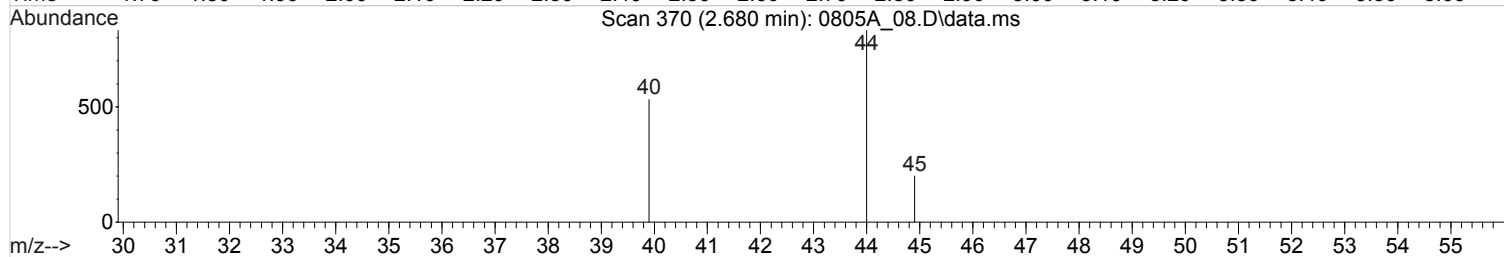
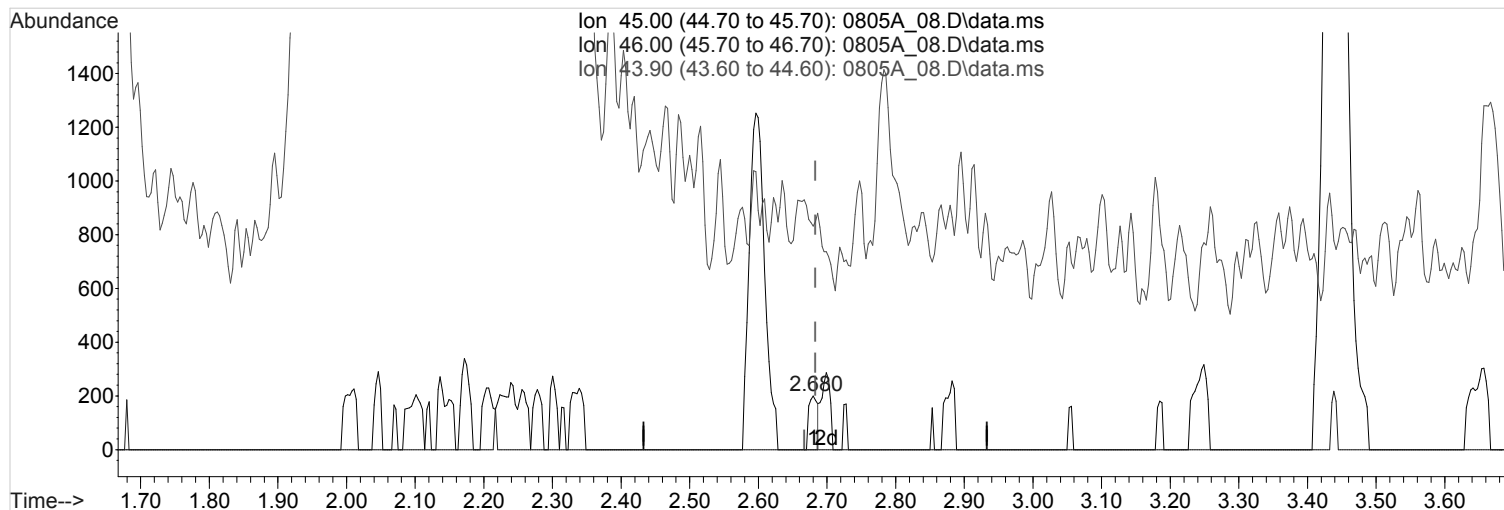
response 983

Ion	Exp%	Act%
56.00	100	100
55.00	61.20	62.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_08.D
 Acq On : 5 Aug 2020 11:27 pm
 Operator : 3527
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 8 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:33:05 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:32:59 2020
 Response via : Initial Calibration



TIC: 0805A_08.D\data.ms

(16) ETHANOL (T)

2.680min (-0.003) 7.4697496 ppb

Qvalue = 1

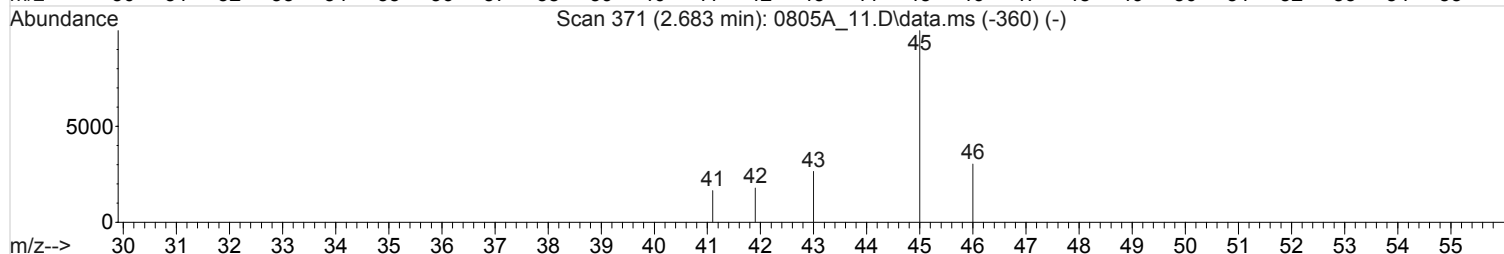
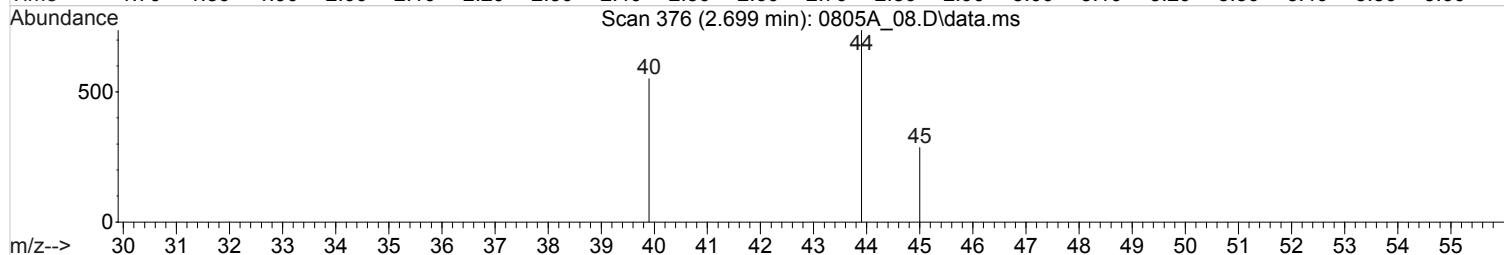
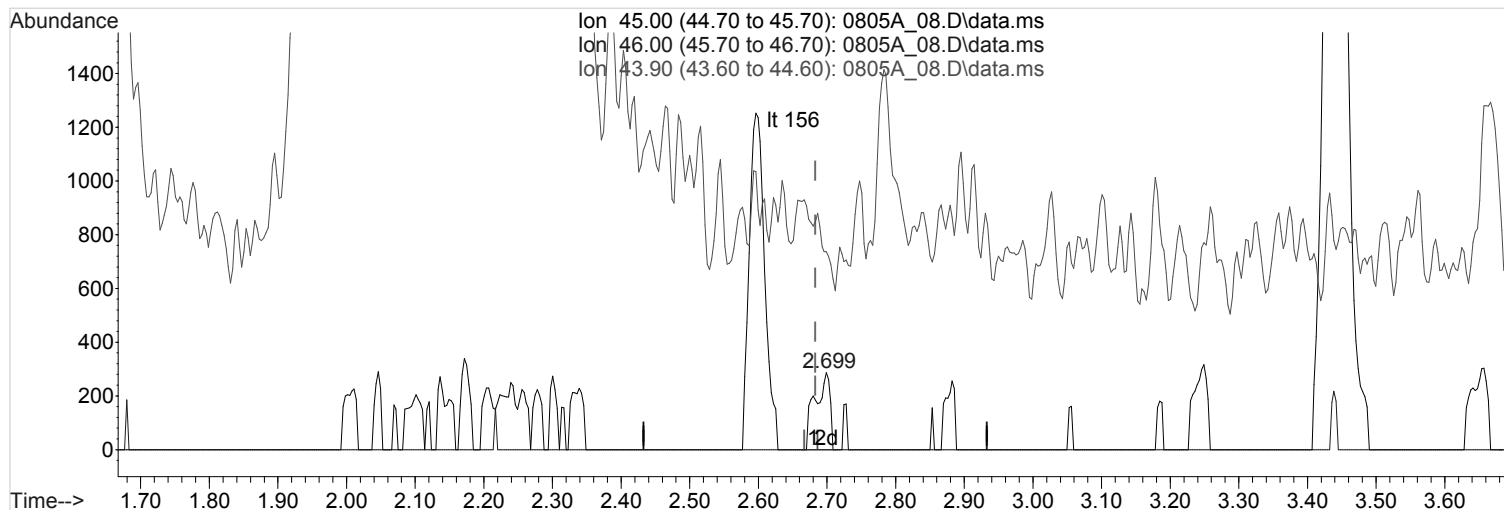
response 174

Ion	Exp%	Act%
45.00	100	100
46.00	0.00	0.00
43.90	10.70	89.08#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_08.D
 Acq On : 5 Aug 2020 11:27 pm
 Operator : 3527
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 8 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:33:05 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:32:59 2020
 Response via : Initial Calibration



TIC: 0805A_08.D\data.ms

(16) ETHANOL (T)

2.699min (+0.016) 18.5455852 ppb m

response 432

Ion	Exp%	Act%
45.00	100	100
46.00	0.00	0.00
43.90	10.70	35.88#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_09.D
 Acq On : 5 Aug 2020 11:48 pm
 Operator : 3527
 Sample : STD VMS 1 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 9 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:36:00 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:34:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	295915	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.499	82	116332	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.937	152	191718	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.56
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.50
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.94

System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.409	65	101904	17.0816956	ppb	0.00
Spiked Amount	16.000		Recovery	=	106.76%	
61) TOLUENE-D8	5.483	98	315124	17.8186235	ppb	0.00
Spiked Amount	16.000	Range 90 - 115	Recovery	=	111.37%	
80) 4-BROMOFLUOROBENZENE	7.332	95	99827	16.8641343	ppb	0.00
Spiked Amount	16.000	Range 80 - 120	Recovery	=	105.40%	

Target Compounds			Qvalue			
2) TPH (GC/MS) LOW FRACTION	4.470	TIC	-479484m	Below Cal		
3) LRH (C5-C8)	4.000	TIC	490084m	0.0195178	ppm	
4) PROPENE	1.683	41	3157	0.9809500	ppb	95
5) DICHLORODIFLUOROMETHANE	1.734	85	6205	1.1960309	ppb	98
6) CHLOROMETHANE	1.914	50	9364	1.1452471	ppb	# 96
7) VINYL CHLORIDE	1.985	62	10082	1.0025577	ppb	# 86
8) 1,3-BUTADIENE	1.966	39	9655	1.1287461	ppb	97
9) BROMOMETHANE	2.229	94	10005	0.9682468	ppb	97
10) CHLOROETHANE	2.316	64	7067	1.0156520	ppb	99
11) VINYL BROMIDE	2.403	106	4162	1.0096320	ppb	92
12) TRICHLOROFLUOROMETHANE	2.406	101	8334	1.0095740	ppb	# 96
13) DICHLOROFLUOROMETHANE	2.448	67	11011	0.9973861	ppb	99
14) ETHYL ETHER	2.596	59	4303	1.0128814	ppb	96
15) ACROLEIN	2.956	56	2019	4.4478073	ppb	86
16) ETHANOL	2.692	45	1010	45.9959681	ppb	# 72
17) 1,1-DICHLOROETHENE	2.744	96	4357	1.1230835	ppb	98
18) 1,1,2-TRICHLOROTRIFLUO...	2.773	101	4656	1.2185416	ppb	# 96
19) ACETONE	3.127	43	9733	3.7791427	ppb	95
20) IODOMETHANE	2.850	142	47385	5.2680266	ppb	99
21) CARBON DISULFIDE	2.782	76	15351	1.1486224	ppb	# 88
22) ALLYL CHLORIDE	3.037	76	13719	4.8678918	ppb	99
23) METHYLENE CHLORIDE	3.101	84	6100	0.8442773	ppb	96
24) METHYL ACETATE	3.181	43	20199	4.7051912	ppb	# 97
25) ACRYLONITRILE	3.580	53	12018	5.0793449	ppb	98
26) n-HEXANE	3.229	56	3644	1.1553269	ppb	# 96
27) TRANS-1,2-DICHLOROETHENE	3.197	96	5194	1.0585952	ppb	96
28) METHYL TERT-BUTYL ETHER	3.242	73	14020	1.0196175	ppb	99
29) TERT-BUTYL ALCOHOL	3.278	59	1455	2.9025997	ppb	# 100
30) 1,1-DICHLOROETHANE	3.551	63	9873	1.0446081	ppb	98
31) VINYL ACETATE	3.660	43	51771	4.6240072	ppb	99
32) DI-ISOPROPYL ETHER	3.442	45	17721	0.9744040	ppb	94
33) ETHYL TERT-BUTYL ETHER	3.644	59	15596	0.9698548	ppb	97
34) 2,2-DICHLOROPROPANE	3.917	77	6230	1.1047661	ppb	# 91
35) CIS-1,2-DICHLOROETHENE	3.856	96	5871	1.0349219	ppb	96
36) 2-BUTANONE (MEK)	4.155	43	18589	5.2143874	ppb	# 89
37) BROMOCHLOROMETHANE	3.972	130	3993	1.0638192	ppb	93
38) TETRAHYDROFURAN	4.094	42	2308	1.1176368	ppb	# 71
39) CHLOROFORM	3.991	83	10196	1.0530451	ppb	98

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_09.D
 Acq On : 5 Aug 2020 11:48 pm
 Operator : 3527
 Sample : STD VMS 1 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 9 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:36:00 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:34:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
40) CYCLOHEXANE	3.982	84	6324	1.0934111	ppb		96
41) 1,1,1-TRICHLOROETHANE	4.130	97	8344	1.0672305	ppb		96
42) CARBON TETRACHLORIDE	4.091	117	8293	1.1418935	ppb		93
43) 1,1-DICHLOROPROPENE	4.191	75	7290	1.1672261	ppb		90
44) 2,2,4-TRIMETHYLPENTANE	4.233	57	13143	1.1918093	ppb		96
45) n-Heptane	4.268	71	2944	1.1201468	ppb	#	99
46) BENZENE	4.335	78	21199	0.9435926	ppb		97
47) TERT-AMYL METHYL ETHER	4.361	73	14702	0.9837455	ppb		97
49) 1,2-DICHLOROETHANE	4.448	62	7858	0.9660346	ppb		98
50) T-AMYL ALCOHOL	4.448	59	1872	3.6218412	ppb	#	46
51) TRICHLOROETHENE	4.660	132	6108	1.0280244	ppb		99
52) METHYL CYCLOHEXANE	4.663	83	6710	1.0629473	ppb		96
53) TERT-AMYL ETHYL ETHER	4.747	59	11883	1.0172909	ppb		95
54) 1,2-DICHLOROPROPANE	4.969	62	3781	1.0737644	ppb		89
55) DIBROMOMETHANE	4.914	93	4157	1.0475481	ppb		92
56) BROMODICHLOROMETHANE	4.988	83	7496	1.0626526	ppb	#	98
57) 2-CHLOROETHYL VINYL ETHER	5.300	63	19617	4.7521777	ppb		98
58) CIS-1,3-DICHLOROPROPENE	5.368	75	7969	1.0061338	ppb		98
60) 4-METHYL-2-PENTANONE (...)	5.728	43	40972	5.2578294	ppb		96
62) TOLUENE	5.516	91	21757	0.9762323	ppb		93
63) TRANS-1,3-DICHLOROPROPENE	5.763	75	7032	0.9166242	ppb		96
64) 1,1,2-TRICHLOROETHANE	5.872	97	5440	1.1586848	ppb		95
65) TETRACHLOROETHENE	5.769	164	4928	1.1043500	ppb		92
66) 1,3-DICHLOROPROPANE	6.062	76	9211	1.1752309	ppb		93
67) 2-HEXANONE	6.265	58	13566	4.8257630	ppb		99
68) CHLORODIBROMOMETHANE	6.001	129	5919	1.0559531	ppb		99
69) 1,2-DIBROMOETHANE	6.178	107	5384	0.9787444	ppb		90
70) CHLOROBENZENE	6.512	112	14252	0.9479119	ppb	#	82
71) 1,1,1,2-TETRACHLOROETHANE	6.544	133	5250	1.0718453	ppb	#	16
72) ETHYLBENZENE	6.506	106	7921	1.0655161	ppb		92
73) M&P-XYLENE	6.602	106	18177	1.8042145	ppb		95
74) O-XYLENE	6.908	106	8807	1.0072245	ppb		99
77) STYRENE	6.943	104	13792	0.9770132	ppb		97
78) BROMOFORM	6.988	173	4516	1.0743909	ppb		94
79) ISOPROPYLBENZENE	7.120	105	23231	1.0471766	ppb		98
82) BROMOBENZENE	7.413	77	10051	1.0246600	ppb		94
83) 1,1,2,2-TETRACHLOROETHANE	7.441	83	8300	1.0817488	ppb		98
84) 1,2,3-TRICHLOROPROPANE	7.541	110	2450	1.1000861	ppb		94
85) TRANS-1,4-DICHLORO-2-B...	7.554	53	1274	0.8166453	ppb	#	94
86) N-PROPYLBENZENE	7.393	91	26719	1.0648311	ppb		97
87) 4-ETHYLTOLUENE	7.461	105	21416	0.9993283	ppb		97
88) 2-CHLOROTOLUENE	7.515	91	17599	1.0311266	ppb		97
89) 4-CHLOROTOLUENE	7.615	91	15970	1.0208003	ppb		96
90) 1,3,5-TRIMETHYLBENZENE	7.509	105	18282	1.0131021	ppb		96
91) TERT-BUTYLBENZENE	7.708	119	16302	1.0533673	ppb		95
92) 1,2,4-TRIMETHYLBENZENE	7.744	105	20203	1.0155035	ppb		98
93) SEC-BUTYLBENZENE	7.798	105	29194	1.0960126	ppb		99
94) 1,3-DICHLOROBENZENE	7.911	146	18595	1.0630676	ppb		99
95) P-ISOPROPYLTOLUENE	7.856	119	26420	1.0408942	ppb		97
96) DICYCLOPENTADIENE	7.866	66	32850	1.0911919	ppb		97
97) 1,4-DICHLOROBENZENE	7.943	146	20826	1.0420841	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.940	105	27109	1.0533726	ppb		97
99) 1,2-DICHLOROBENZENE	8.088	146	23873	1.1483265	ppb		96
100) N-BUTYLBENZENE	8.017	91	31064	1.1314516	ppb		97
101) 1,2-DIBROMO-3-CHLOROPR...	8.339	157	4496	1.0955955	ppb		95

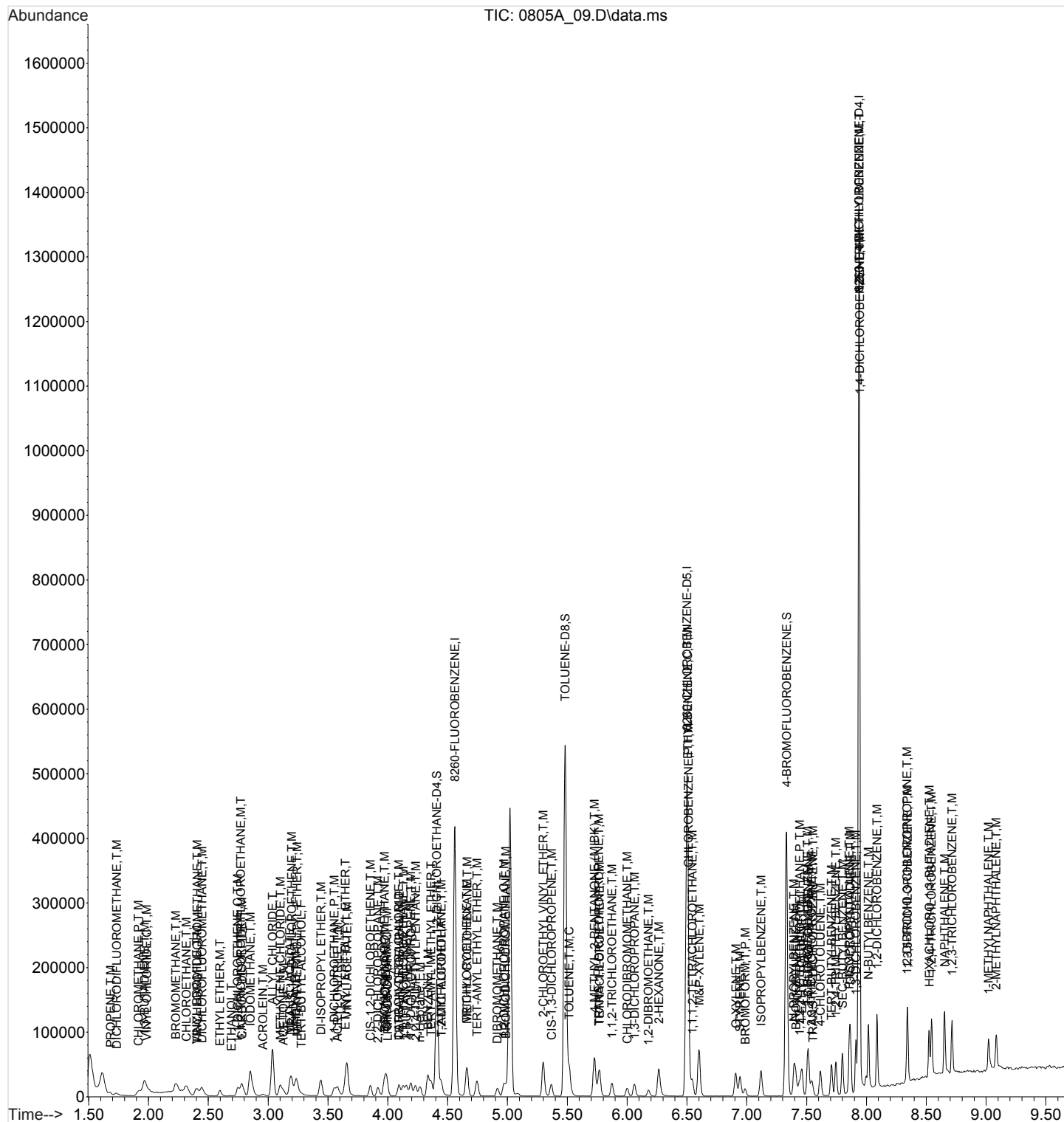
Data Path : C:\msdchem\1\data\080520a\
Data File : 0805A_09.D
Acq On : 5 Aug 2020 11:48 pm
Operator : 3527
Sample : STD VMS 1 ppb 20H05877
Misc : water SURR/IS 20G06381
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS35

Quant Time: Aug 06 12:36:00 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:34:40 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) 1,3,5-TRICHLOROBENZENE	8.345	180	16688	1.1070160	ppb	99
103) 1,2,4-TRICHLOROBENZENE	8.544	180	14646	1.0607336	ppb	97
104) HEXACHLORO-1,3-BUTADIENE	8.525	225	6333	1.1337537	ppb	89
105) NAPHTHALENE	8.654	128	44035	1.1381130	ppb	97
106) 1,2,3-TRICHLOROBENZENE	8.715	180	14064	1.0921797	ppb	97
107) 1-METHYLNAPHTHALENE	9.020	142	16628	0.9787354	ppb	99
108) 2-METHYLNAPHTHALENE	9.084	142	16413	0.9947132	ppb	99

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

Quant Time: Aug 06 12:36:00 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:34:40 2020
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_10.D
 Acq On : 6 Aug 2020 12:07 am
 Operator : 3527
 Sample : STD VMS 2 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:37:56 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:36:15 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	296900	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.499	82	113185	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.937	152	193608	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.56
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.50
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.94
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.410	65	104599	17.4668828	ppb	0.00
Spiked Amount	16.000		Recovery	= 109.17%		
61) TOLUENE-D8	5.480	98	333273	19.2759959	ppb	0.00
Spiked Amount	16.000	Range 90 - 115	Recovery	= 120.47%#		
80) 4-BROMOFLUOROBENZENE	7.329	95	105367	18.3095722	ppb	0.00
Spiked Amount	16.000	Range 80 - 120	Recovery	= 114.43%		
Target Compounds						
2) TPH (GC/MS) LOW FRACTION	4.470	TIC	-282159m	Below Cal		
3) LRH (C5-C8)	4.000	TIC	914794m	0.0363112	ppm	
4) PROPENE	1.683	41	4502	1.3971879	ppb	97
5) DICHLORODIFLUOROMETHANE	1.734	85	11288	2.1223475	ppb	# 67
6) CHLOROMETHANE	1.918	50	17271	2.0718540	ppb	96
7) VINYL CHLORIDE	1.988	62	19807	1.9625787	ppb	96
8) 1,3-BUTADIENE	1.966	39	17863	2.0520435	ppb	93
9) BROMOMETHANE	2.230	94	20295	1.9644897	ppb	98
10) CHLOROETHANE	2.316	64	14540	2.0791048	ppb	99
11) VINYL BROMIDE	2.400	106	8621	2.0821447	ppb	98
12) TRICHLOROFLUOROMETHANE	2.403	101	15793	1.9047779	ppb	# 23
13) DICHLOROFLUOROMETHANE	2.448	67	21398	1.9323806	ppb	99
14) ETHYL ETHER	2.596	59	9139	2.1410241	ppb	95
15) ACROLEIN	2.959	56	3679	8.1782124	ppb	98
16) ETHANOL	2.686	45	1707m	78.3764702	ppb	
17) 1,1-DICHLOROETHENE	2.750	96	8499	2.1540211	ppb	98
18) 1,1,2-TRICHLOROTRIFLUO...	2.776	101	8398	2.1386530	ppb	96
19) ACETONE	3.123	43	16332	6.4966277	ppb	98
20) IODOMETHANE	2.850	142	90574	9.9767332	ppb	100
21) CARBON DISULFIDE	2.783	76	26646	1.9548626	ppb	96
22) ALLYL CHLORIDE	3.037	76	26561	9.4209894	ppb	91
23) METHYLENE CHLORIDE	3.101	84	10692	1.5008980	ppb	94
24) METHYL ACETATE	3.181	43	40029	9.3486131	ppb	# 98
25) ACRYLONITRILE	3.580	53	20996	8.8288424	ppb	91
26) n-HEXANE	3.223	56	6620	2.0564111	ppb	# 93
27) TRANS-1,2-DICHLOROETHENE	3.197	96	9711	1.9598841	ppb	89
28) METHYL TERT-BUTYL ETHER	3.242	73	28097	2.0326137	ppb	99
29) TERT-BUTYL ALCOHOL	3.275	59	4706m	9.8143550	ppb	
30) 1,1-DICHLOROETHANE	3.551	63	19225	2.0173448	ppb	97
31) VINYL ACETATE	3.660	43	107342	9.6462833	ppb	99
32) DI-ISOPROPYL ETHER	3.438	45	35502	1.9506237	ppb	97
33) ETHYL TERT-BUTYL ETHER	3.644	59	31539	1.9606918	ppb	98
34) 2,2-DICHLOROPROPANE	3.918	77	11520	2.0126361	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.853	96	11523	2.0166752	ppb	98
36) 2-BUTANONE (MEK)	4.155	43	34226	9.5234884	ppb	95
37) BROMOCHLOROMETHANE	3.969	130	8027	2.1164589	ppb	100
38) TETRAHYDROFURAN	4.098	42	4272	2.0352284	ppb	# 82
39) CHLOROFORM	3.991	83	19543	1.9999216	ppb	97

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_10.D
 Acq On : 6 Aug 2020 12:07 am
 Operator : 3527
 Sample : STD VMS 2 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:37:56 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:36:15 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) CYCLOHEXANE	3.985	84	11807	2.0137412	ppb	97
41) 1,1,1-TRICHLOROETHANE	4.130	97	15756	1.9936759	ppb	95
42) CARBON TETRACHLORIDE	4.091	117	14952	2.0201162	ppb	99
43) 1,1-DICHLOROPROPENE	4.191	75	13324	2.0874853	ppb	98
44) 2,2,4-TRIMETHYLPENTANE	4.229	57	23507	2.0802127	ppb	98
45) n-Heptane	4.268	71	4901	1.8310690	ppb	# 69
46) BENZENE	4.336	78	41245	1.8401530	ppb	99
47) TERT-AMYL METHYL ETHER	4.361	73	30669	2.0490276	ppb	99
49) 1,2-DICHLOROETHANE	4.448	62	15861	1.9507882	ppb	99
50) T-AMYL ALCOHOL	4.445	59	4557	9.0650017	ppb	# 51
51) TRICHLOROETHENE	4.660	132	11560	1.9337647	ppb	97
52) METHYL CYCLOHEXANE	4.664	83	13042	2.0448585	ppb	97
53) TERT-AMYL ETHYL ETHER	4.744	59	22803	1.9419331	ppb	98
54) 1,2-DICHLOROPROPANE	4.972	62	7532	2.1145814	ppb	97
55) DIBROMOMETHANE	4.914	93	8677	2.1678635	ppb	88
56) BROMODICHLOROMETHANE	4.991	83	14796	2.0761083	ppb	# 94
57) 2-CHLOROETHYL VINYL ETHER	5.300	63	39808	9.6646373	ppb	97
58) CIS-1,3-DICHLOROPROPENE	5.364	75	16864	2.1206715	ppb	# 91
60) 4-METHYL-2-PENTANONE (...)	5.725	43	78429	10.2854931	ppb	99
62) TOLUENE	5.512	91	44737	2.0686154	ppb	92
63) TRANS-1,3-DICHLOROPROPENE	5.763	75	16312	2.2058299	ppb	# 92
64) 1,1,2-TRICHLOROETHANE	5.872	97	10452	2.2484619	ppb	99
65) TETRACHLOROETHENE	5.770	164	9023	2.0544278	ppb	98
66) 1,3-DICHLOROPROPANE	6.059	76	17062	2.1947355	ppb	98
67) 2-HEXANONE	6.265	58	26971	9.8993429	ppb	97
68) CHLORODIBROMOMETHANE	6.001	129	11089	2.0207255	ppb	99
69) 1,2-DIBROMOETHANE	6.178	107	11548	2.1627594	ppb	97
70) CHLOROBENZENE	6.512	112	29414	2.0224480	ppb	94
71) 1,1,1,2-TETRACHLOROETHANE	6.544	133	10115	2.1056971	ppb	# 16
72) ETHYLBENZENE	6.506	106	15487	2.1257275	ppb	98
73) M&P-XYLENE	6.599	106	35667	3.6746438	ppb	94
74) O-XYLENE	6.908	106	17450	2.0495361	ppb	94
77) STYRENE	6.943	104	27220	1.9869287	ppb	96
78) BROMOFORM	6.985	173	8346	2.0240540	ppb	97
79) ISOPROPYLBENZENE	7.120	105	45568	2.1001569	ppb	99
82) BROMOBENZENE	7.409	77	19901	2.0035337	ppb	99
83) 1,1,2,2-TETRACHLOROETHANE	7.438	83	15642	2.0005676	ppb	99
84) 1,2,3-TRICHLOROPROPANE	7.541	110	4621	2.0320442	ppb	97
85) TRANS-1,4-DICHLORO-2-B...	7.554	53	2586	1.6799708	ppb	# 86
86) N-PROPYLBENZENE	7.397	91	51893	2.0332543	ppb	100
87) 4-ETHYLTOLUENE	7.461	105	42265	1.9530920	ppb	96
88) 2-CHLOROTOLUENE	7.512	91	33846	1.9569130	ppb	97
89) 4-CHLOROTOLUENE	7.615	91	31391	1.9823396	ppb	100
90) 1,3,5-TRIMETHYLBENZENE	7.509	105	35399	1.9396720	ppb	95
91) TERT-BUTYLBENZENE	7.708	119	33765	2.1477199	ppb	98
92) 1,2,4-TRIMETHYLBENZENE	7.744	105	39028	1.9392508	ppb	98
93) SEC-BUTYLBENZENE	7.798	105	55381	2.0371067	ppb	100
94) 1,3-DICHLOROBENZENE	7.911	146	35655	2.0044351	ppb	100
95) P-ISOPROPYLTOLUENE	7.856	119	53588	2.0811915	ppb	98
96) DICYCLOPENTADIENE	7.866	66	67611	2.2016303	ppb	100
97) 1,4-DICHLOROBENZENE	7.943	146	41785	2.0607763	ppb	# 1
98) 1,2,3-TRIMETHYLBENZENE	7.940	105	52850	2.0215534	ppb	98
99) 1,2-DICHLOROBENZENE	8.088	146	44428	2.0818795	ppb	97
100) N-BUTYLBENZENE	8.017	91	61052	2.1703050	ppb	99
101) 1,2-DIBROMO-3-CHLOROPR...	8.335	157	8205	1.9590860	ppb	97

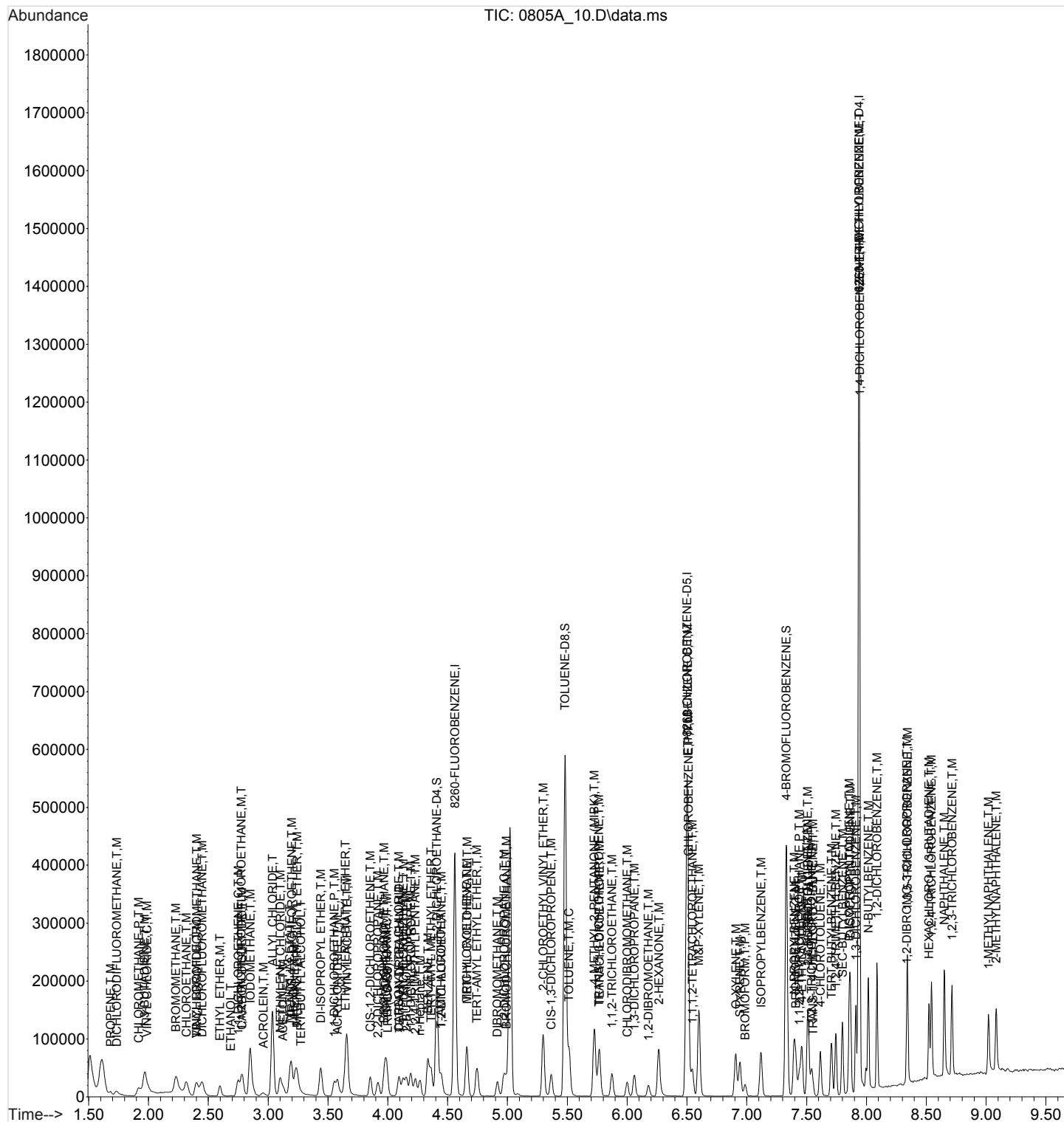
Data Path : C:\msdchem\1\data\080520a\
Data File : 0805A_10.D
Acq On : 6 Aug 2020 12:07 am
Operator : 3527
Sample : STD VMS 2 ppb 20H05877
Misc : water SURR/IS 20G06381
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS35

Quant Time: Aug 06 12:37:56 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:36:15 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) 1,3,5-TRICHLOROBENZENE	8.342	180	32248	2.0903593	ppb	100
103) 1,2,4-TRICHLOROBENZENE	8.544	180	29162	2.0774154	ppb	97
104) HEXACHLORO-1,3-BUTADIENE	8.522	225	12642	2.2082988	ppb	99
105) NAPHTHALENE	8.650	128	83858	2.1137687	ppb	99
106) 1,2,3-TRICHLOROBENZENE	8.715	180	26876	2.0458037	ppb	96
107) 1-METHYLNAPHTHALENE	9.020	142	32444	1.8955123	ppb	98
108) 2-METHYLNAPHTHALENE	9.085	142	34787	2.0889194	ppb	96

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

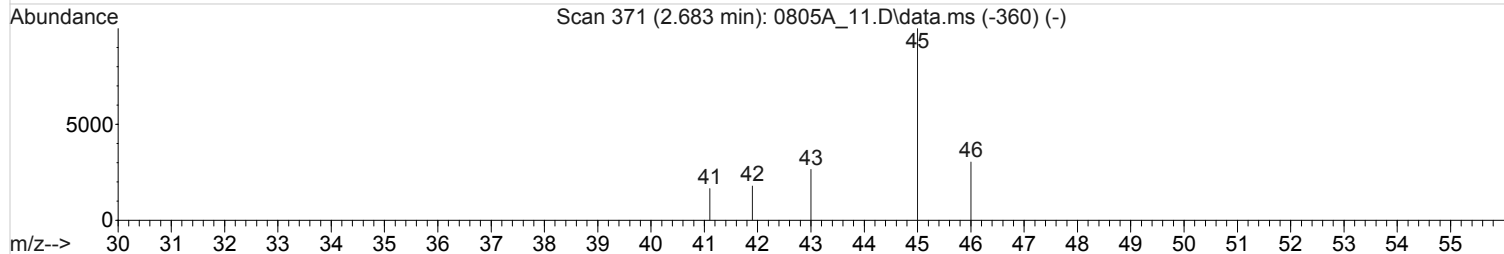
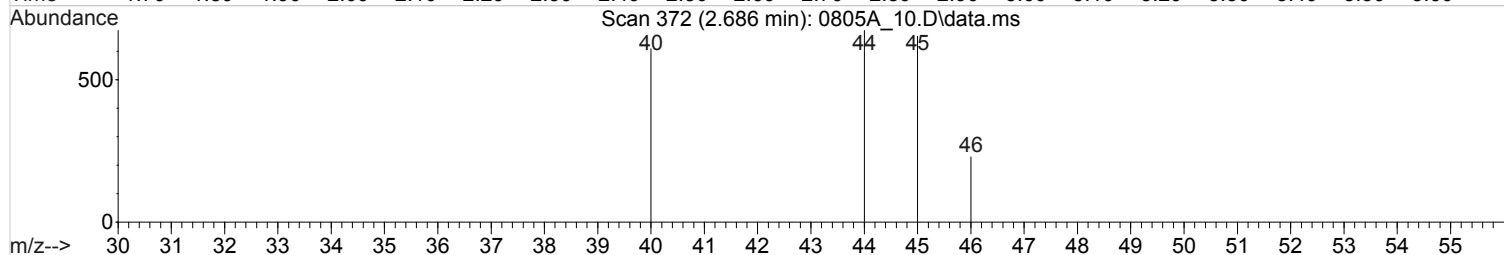
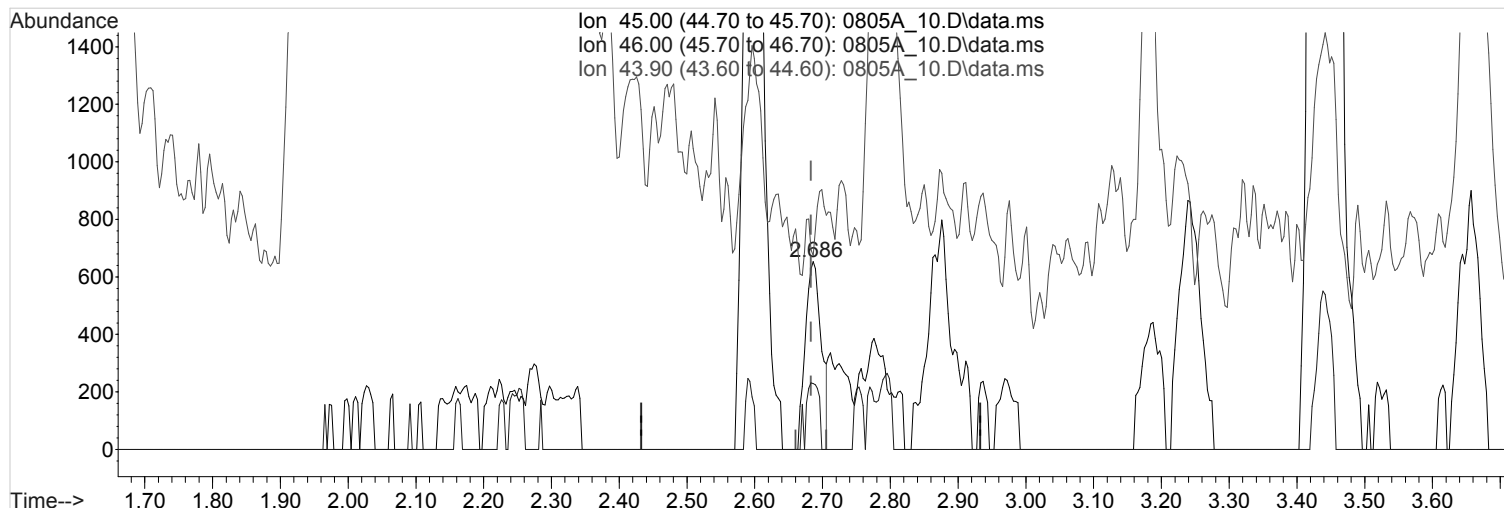
Quant Time: Aug 06 12:37:56 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:36:15 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_10.D
 Acq On : 6 Aug 2020 12:07 am
 Operator : 3527
 Sample : STD VMS 2 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:36:22 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:36:15 2020
 Response via : Initial Calibration



TIC: 0805A_10.D\data.ms

(16) ETHANOL (T)

2.686min (+0.003) 49.2206070 ppb

Qvalue = 71

response 1072

Ion	Exp%	Act%
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45.00	100	100
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46.00	0.00	29.01#
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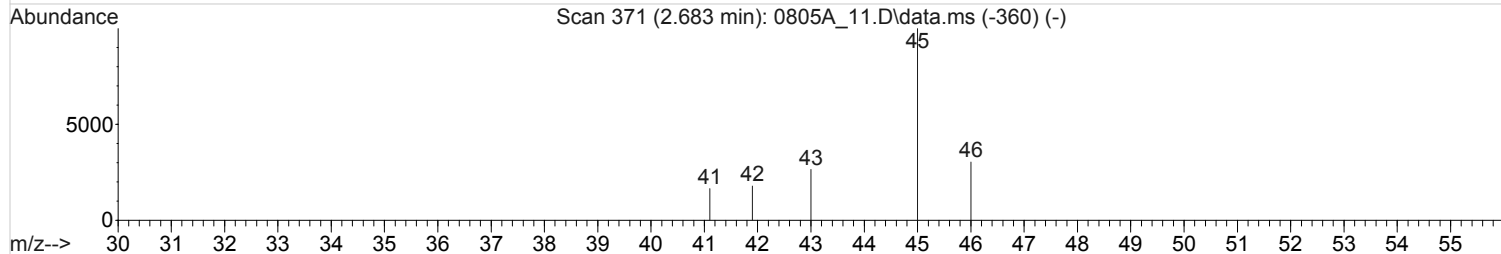
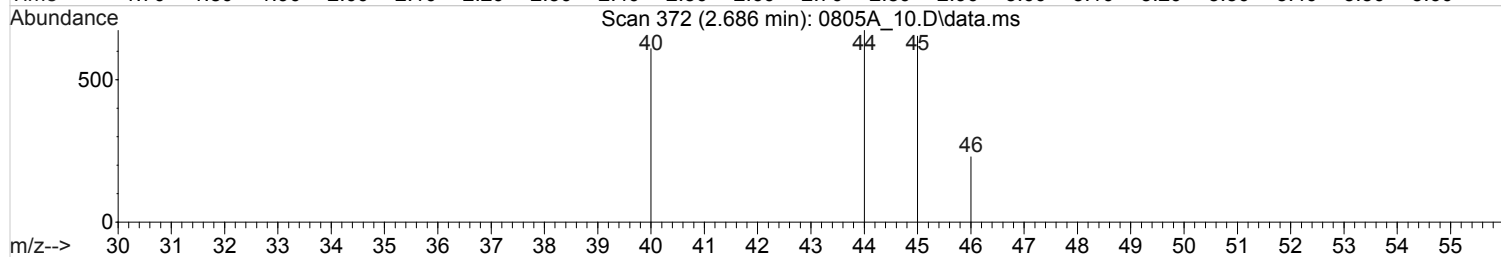
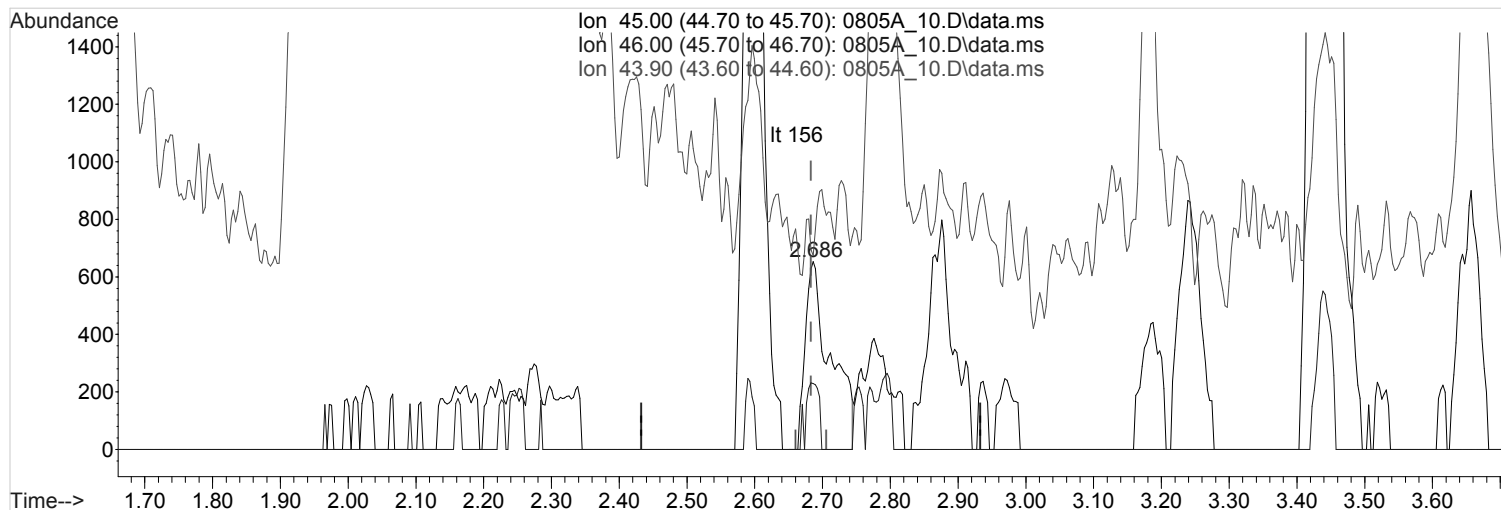
43.90	10.70	21.55#
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
Data File : 0805A_10.D
Acq On : 6 Aug 2020 12:07 am
Operator : 3527
Sample : STD VMS 2 ppb 20H05877
Misc : water SURR/IS 20G06381
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS35

Quant Time: Aug 06 12:36:22 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:36:15 2020
Response via : Initial Calibration



TIC: 0805A_10.D\data.ms

(16) ETHANOL (T)

2.686min (+0.003) 78.3764702 ppb m

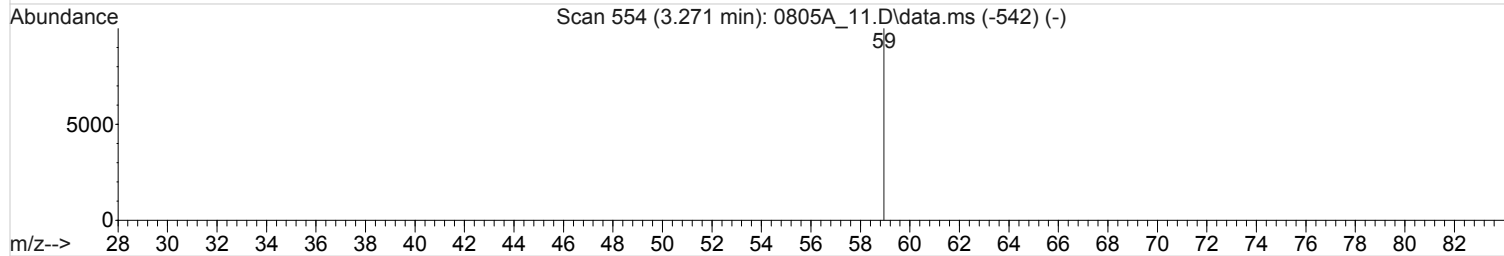
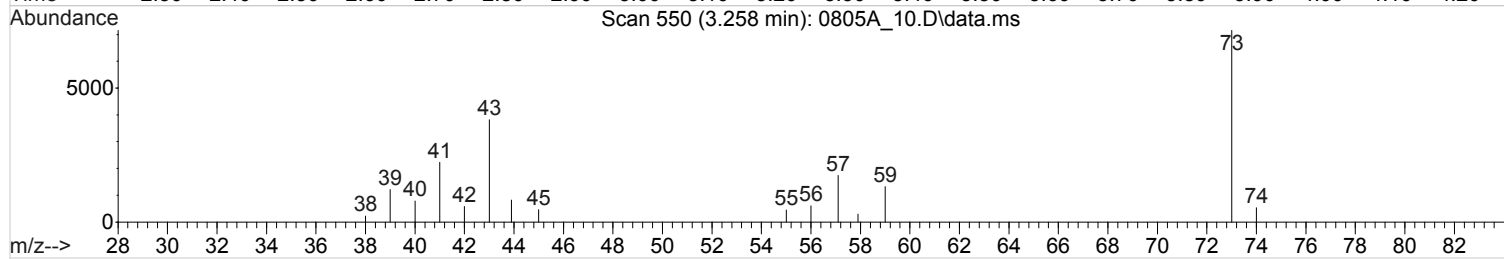
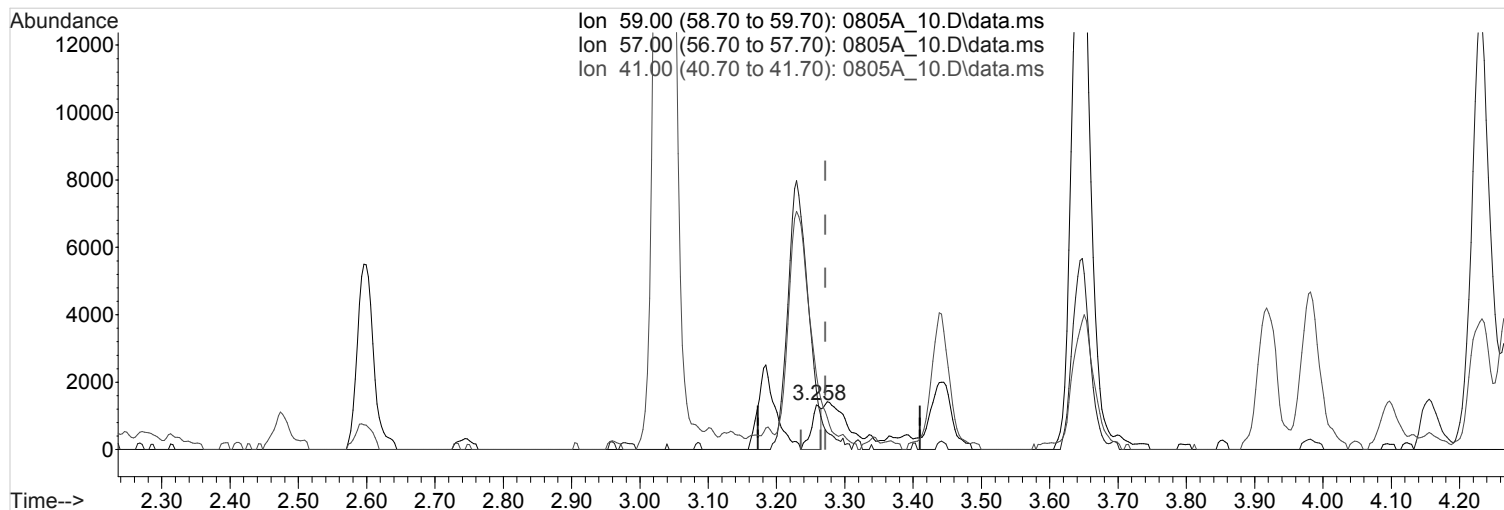
response 1707

Ion	Exp%	Act%
45.00	100	100
46.00	0.00	18.22#
43.90	10.70	13.53#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_10.D
 Acq On : 6 Aug 2020 12:07 am
 Operator : 3527
 Sample : STD VMS 2 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:36:22 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:36:15 2020
 Response via : Initial Calibration



TIC: 0805A_10.D\data.ms

(29) TERT-BUTYL ALCOHOL (T)

3.258min (-0.013) 2.7069768 ppb

Qvalue = 100

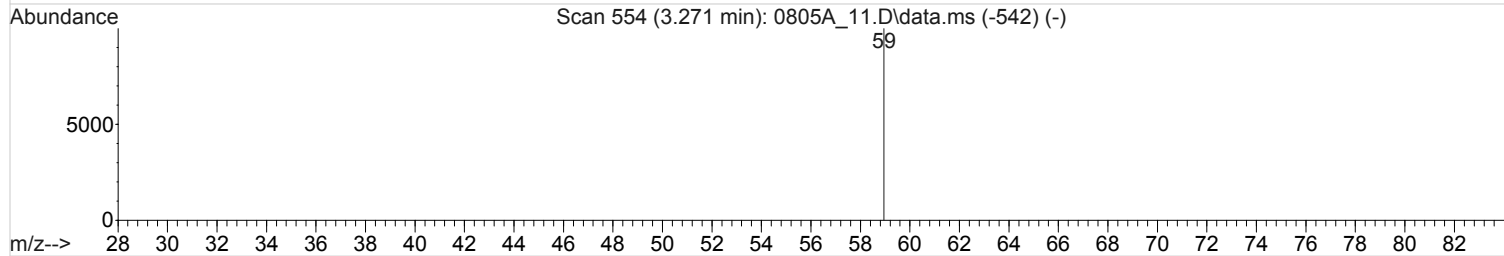
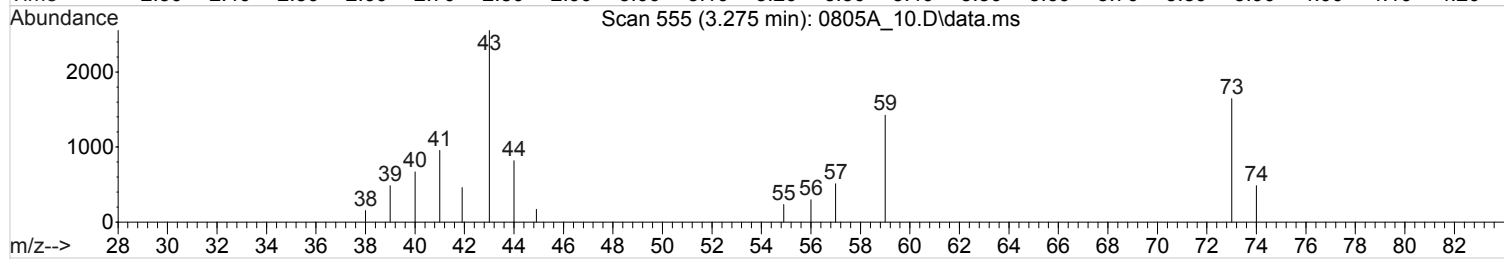
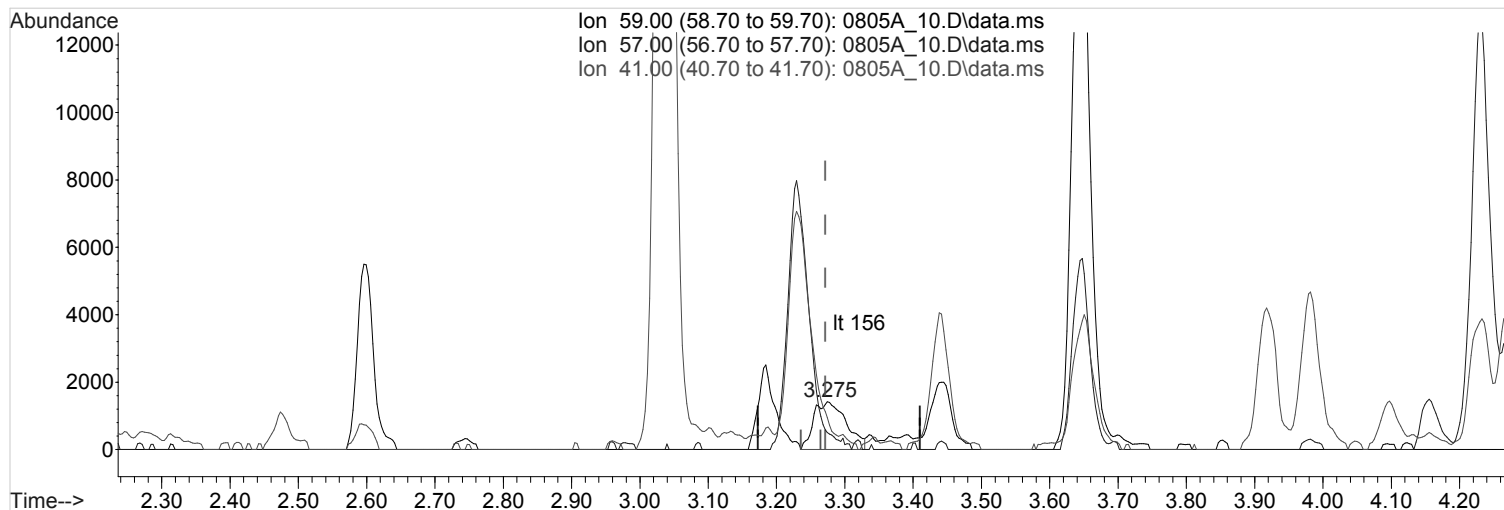
response 1298

Ion	Exp%	Act%
59.00	100	100
57.00	0.00	0.00
41.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_10.D
 Acq On : 6 Aug 2020 12:07 am
 Operator : 3527
 Sample : STD VMS 2 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:36:22 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:36:15 2020
 Response via : Initial Calibration



TIC: 0805A_10.D\data.ms

(29) TERT-BUTYL ALCOHOL (T)

3.275min (+0.003) 9.8143550 ppb m

response 4706

Ion	Exp%	Act%
59.00	100	100
57.00	0.00	0.00
41.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_11.D
 Acq On : 6 Aug 2020 12:27 am
 Operator : 3527
 Sample : MSTD VMS 5.0 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:19:06 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:18:29 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	311326	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.499	82	122631	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.937	152	209565	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.56
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.50
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.94
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.409	65	120988	19.0000000	ppb	0.00
Spiked Amount	16.000		Recovery	= 118.75%		
61) TOLUENE-D8	5.480	98	370839	19.0000000	ppb	0.00
Spiked Amount	16.000	Range 90 - 115	Recovery	= 118.75%#		
80) 4-BROMOFLUOROBENZENE	7.329	95	119308	19.0000000	ppb	0.00
Spiked Amount	16.000	Range 80 - 120	Recovery	= 118.75%		
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.470	TIC	26793m	5.0000000	ppm	
3) LRH (C5-C8)	4.000	TIC	1959357m	0.1200000	ppm	
4) PROPENE	1.686	41	8702	5.0000000	ppb	100
5) DICHLORODIFLUOROMETHANE	1.731	85	30727	5.0000000	ppb	100
6) CHLOROMETHANE	1.921	50	45222	5.0000000	ppb	100
7) VINYL CHLORIDE	1.988	62	51467	5.0000000	ppb	100
8) 1,3-BUTADIENE	1.969	39	45330	5.0000000	ppb	100
9) BROMOMETHANE	2.229	94	50885	5.0000000	ppb	100
10) CHLOROETHANE	2.316	64	31922	5.0000000	ppb	100
11) VINYL BROMIDE	2.400	106	23247	5.0000000	ppb	100
12) TRICHLOROFLUOROMETHANE	2.416	101	43149	5.0000000	ppb	100
13) DICHLOROFLUOROMETHANE	2.448	67	56765	5.0000000	ppb	100
14) ETHYL ETHER	2.596	59	22450	5.0000000	ppb	100
15) ACROLEIN	2.953	56	10547	25.0000000	ppb	100
16) ETHANOL	2.683	45	2350	250.0000000	ppb	# 100
17) 1,1-DICHLOROETHENE	2.747	96	22178	5.0000000	ppb	100
18) 1,1,2-TRICHLOROTRIFLUO...	2.776	101	23639	5.0000000	ppb	100
19) ACETONE	3.123	43	41347	25.0000000	ppb	100
20) IODOMETHANE	2.850	142	238920	25.0000000	ppb	100
21) CARBON DISULFIDE	2.786	76	70010	5.0000000	ppb	100
22) ALLYL CHLORIDE	3.037	76	73560	25.0000000	ppb	100
23) METHYLENE CHLORIDE	3.101	84	28090	5.0000000	ppb	100
24) METHYL ACETATE	3.181	43	111630	25.0000000	ppb	# 100
25) ACRYLONITRILE	3.580	53	66358	25.0000000	ppb	100
26) n-HEXANE	3.226	56	17334	5.0000000	ppb	# 100
27) TRANS-1,2-DICHLOROETHENE	3.197	96	27191	5.0000000	ppb	100
28) METHYL TERT-BUTYL ETHER	3.242	73	73104	5.0000000	ppb	100
29) TERT-BUTYL ALCOHOL	3.271	59	7990	25.0000000	ppb	# 100
30) 1,1-DICHLOROETHANE	3.554	63	51357	5.0000000	ppb	100
31) VINYL ACETATE	3.660	43	235673	25.0000000	ppb	100
32) DI-ISOPROPYL ETHER	3.438	45	91784	5.0000000	ppb	100
33) ETHYL TERT-BUTYL ETHER	3.647	59	81731	5.0000000	ppb	100
34) 2,2-DICHLOROPROPANE	3.918	77	29752	5.0000000	ppb	100
35) CIS-1,2-DICHLOROETHENE	3.853	96	30704	5.0000000	ppb	100
36) 2-BUTANONE (MEK)	4.155	43	89901	25.0000000	ppb	100
37) BROMOCHLOROMETHANE	3.969	130	21139	5.0000000	ppb	100
38) TETRAHYDROFURAN	4.098	42	10926	5.0000000	ppb	100
39) CHLOROFORM	3.991	83	52380	5.0000000	ppb	100

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_11.D
 Acq On : 6 Aug 2020 12:27 am
 Operator : 3527
 Sample : MSTD VMS 5.0 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:19:06 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:18:29 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) CYCLOHEXANE	3.982	84	32610	5.0000000	ppb	100
41) 1,1,1-TRICHLOROETHANE	4.130	97	42550	5.0000000	ppb	100
42) CARBON TETRACHLORIDE	4.094	117	39757	5.1921068	ppb	98
43) 1,1-DICHLOROPROPENE	4.191	75	33817	5.0000000	ppb	100
44) 2,2,4-TRIMETHYLPENTANE	4.229	57	62671	5.0000000	ppb	100
45) n-Heptane	4.268	71	14703	5.0000000	ppb	# 100
46) BENZENE	4.336	78	107212	5.0000000	ppb	100
47) TERT-AMYL METHYL ETHER	4.361	73	78865	5.0000000	ppb	100
49) 1,2-DICHLOROETHANE	4.448	62	40972	5.0000000	ppb	100
50) T-AMYL ALCOHOL	4.445	59	11279	25.0000000	ppb	100
51) TRICHLOROETHENE	4.660	132	30537	5.0000000	ppb	100
52) METHYL CYCLOHEXANE	4.663	83	35944	5.0000000	ppb	100
53) TERT-AMYL ETHYL ETHER	4.744	59	59279	5.0000000	ppb	100
54) 1,2-DICHLOROPROPANE	4.969	62	18967	5.0000000	ppb	100
55) DIBROMOMETHANE	4.914	93	20625	5.0000000	ppb	100
56) BROMODICHLOROMETHANE	4.991	83	38337	5.0000000	ppb	100
57) 2-CHLOROETHYL VINYL ETHER	5.297	63	106731	25.0000000	ppb	100
58) CIS-1,3-DICHLOROPROPENE	5.368	75	42727	5.0000000	ppb	100
60) 4-METHYL-2-PENTANONE (...)	5.725	43	207203	25.0000000	ppb	100
62) TOLUENE	5.516	91	119394	5.0000000	ppb	100
63) TRANS-1,3-DICHLOROPROPENE	5.763	75	40147	5.0000000	ppb	100
64) 1,1,2-TRICHLOROETHANE	5.872	97	26995	5.0000000	ppb	100
65) TETRACHLOROETHENE	5.770	164	23994	5.0000000	ppb	100
66) 1,3-DICHLOROPROPANE	6.059	76	44908	5.0000000	ppb	100
67) 2-HEXANONE	6.261	58	72591	25.0000000	ppb	100
68) CHLORODIBROMOMETHANE	6.001	129	30773	5.0000000	ppb	100
69) 1,2-DIBROMOETHANE	6.178	107	30024	5.0000000	ppb	100
70) CHLOROBENZENE	6.512	112	77295	5.0000000	ppb	100
71) 1,1,1,2-TETRACHLOROETHANE	6.544	133	27171	5.0000000	ppb	# 100
72) ETHYLBENZENE	6.506	106	39686	5.0000000	ppb	100
73) M&P-XYLENE	6.599	106	99183	10.0000000	ppb	100
74) O-XYLENE	6.908	106	46973	5.0000000	ppb	100
77) STYRENE	6.943	104	75912	5.0000000	ppb	100
78) BROMOFORM	6.985	173	22288	5.0000000	ppb	100
79) ISOPROPYLBENZENE	7.117	105	121509	5.0000000	ppb	100
82) BROMOBENZENE	7.409	77	52107	5.0000000	ppb	100
83) 1,1,2,2-TETRACHLOROETHANE	7.438	83	39092	5.0000000	ppb	100
84) 1,2,3-TRICHLOROPROPANE	7.541	110	12197	5.0000000	ppb	100
85) TRANS-1,4-DICHLORO-2-B...	7.554	53	7071	5.0000000	ppb	100
86) N-PROPYLBENZENE	7.393	91	136644	5.0000000	ppb	100
87) 4-ETHYLTOLUENE	7.461	105	116656	5.0000000	ppb	100
88) 2-CHLOROTOLUENE	7.512	91	91331	5.0000000	ppb	100
89) 4-CHLOROTOLUENE	7.615	91	82283	5.0000000	ppb	100
90) 1,3,5-TRIMETHYLBENZENE	7.509	105	99377	5.0000000	ppb	100
91) TERT-BUTYLBENZENE	7.708	119	87218	5.0000000	ppb	100
92) 1,2,4-TRIMETHYLBENZENE	7.744	105	106568	5.0000000	ppb	100
93) SEC-BUTYLBENZENE	7.798	105	147459	5.0000000	ppb	100
94) 1,3-DICHLOROBENZENE	7.911	146	95900	5.0000000	ppb	100
95) P-ISOPROPYLTOLUENE	7.856	119	146362	5.0000000	ppb	100
96) DICYCLOPENTADIENE	7.866	66	182364	5.0000000	ppb	100
97) 1,4-DICHLOROBENZENE	7.943	146	108710	5.0000000	ppb	100
98) 1,2,3-TRIMETHYLBENZENE	7.940	105	140743	5.0000000	ppb	100
99) 1,2-DICHLOROBENZENE	8.088	146	118698	5.0000000	ppb	100
100) N-BUTYLBENZENE	8.014	91	162800	5.0083062	ppb	100
101) 1,2-DIBROMO-3-CHLOROPR...	8.335	157	20644	5.0000000	ppb	100

Data Path : C:\msdchem\1\data\080520a\
Data File : 0805A_11.D
Acq On : 6 Aug 2020 12:27 am
Operator : 3527
Sample : MSTD VMS 5.0 ppb 20H05877
Misc : water SURR/IS 20G06381
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS35

Quant Time: Aug 06 12:19:06 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:18:29 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) 1,3,5-TRICHLOROBENZENE	8.342	180	84268	5.0000000	ppb	100
103) 1,2,4-TRICHLOROBENZENE	8.544	180	75506	5.0000000	ppb	100
104) HEXACHLORO-1,3-BUTADIENE	8.522	225	33636	5.0000000	ppb	100
105) NAPHTHALENE	8.650	128	224851	5.0000000	ppb	100
106) 1,2,3-TRICHLOROBENZENE	8.715	180	74103	5.0000000	ppb	100
107) 1-METHYLNAPHTHALENE	9.020	142	86770	5.0000000	ppb	100
108) 2-METHYLNAPHTHALENE	9.085	142	87808	5.0000000	ppb	100

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

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_12.D
 Acq On : 6 Aug 2020 12:48 am
 Operator : 3527
 Sample : STD VMS 25 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:20:40 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:19:15 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	346383	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.500	82	142371	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.937	152	251272	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.56
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.50
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.94
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.406	65	148463	20.9550334	ppb	0.00
Spiked Amount	16.000		Recovery	= 130.97%		
61) TOLUENE-D8	5.480	98	423276	18.6797293	ppb	0.00
Spiked Amount	16.000	Range 90 - 115	Recovery	= 116.75%#		
80) 4-BROMOFLUOROBENZENE	7.329	95	149859	20.5563309	ppb	0.00
Spiked Amount	16.000	Range 80 - 120	Recovery	= 128.48%#		
Target Compounds						
					Qvalue	
2) TPH (GC/MS) LOW FRACTION	4.470	TIC	12242333m	2053.3840467	ppm	
3) LRH (C5-C8)	4.000	TIC	17077135m	0.9400296	ppm	
4) PROPENE	1.693	41	56465	29.1601048	ppb	99
5) DICHLORODIFLUOROMETHANE	1.728	85	153854	22.5018103	ppb	99
6) CHLOROMETHANE	1.918	50	200869	19.9614451	ppb	98
7) VINYL CHLORIDE	1.988	62	260644	22.7587133	ppb	99
8) 1,3-BUTADIENE	1.966	39	214129	21.2284652	ppb	99
9) BROMOMETHANE	2.230	94	270848	23.9201931	ppb	97
10) CHLOROETHANE	2.313	64	174525	24.5695035	ppb	99
11) VINYL BROMIDE	2.397	106	114447	22.1241362	ppb	99
12) TRICHLOROFLUOROMETHANE	2.410	101	222957	23.2209083	ppb	# 97
13) DICHLOROFLUOROMETHANE	2.448	67	273559	21.6570447	ppb	97
14) ETHYL ETHER	2.596	59	112812	22.5822796	ppb	98
15) ACROLEIN	2.953	56	60832	129.5990984	ppb	87
16) ETHANOL	2.686	45	17000	1625.4734874	ppb	# 82
17) 1,1-DICHLOROETHENE	2.747	96	110045	22.2985571	ppb	98
18) 1,1,2-TRICHLOROTRIFLUO...	2.776	101	117973	22.4275766	ppb	100
19) ACETONE	3.120	43	212168	115.3014343	ppb	99
20) IODOMETHANE	2.850	142	1202764	113.1167049	ppb	100
21) CARBON DISULFIDE	2.786	76	345863	22.2010162	ppb	99
22) ALLYL CHLORIDE	3.037	76	392382	119.8577683	ppb	99
23) METHYLENE CHLORIDE	3.101	84	140872	22.5372939	ppb	99
24) METHYL ACETATE	3.181	43	617572	124.3098389	ppb	# 100
25) ACRYLONITRILE	3.577	53	357685	121.1173251	ppb	99
26) n-HEXANE	3.226	56	91214	23.6478431	ppb	# 96
27) TRANS-1,2-DICHLOROETHENE	3.197	96	139684	23.0860860	ppb	98
28) METHYL TERT-BUTYL ETHER	3.239	73	399164	24.5379938	ppb	99
29) TERT-BUTYL ALCOHOL	3.271	59	51566	145.0158579	ppb	# 100
30) 1,1-DICHLOROETHANE	3.551	63	262885	23.0035565	ppb	99
31) VINYL ACETATE	3.657	43	1899285	181.0836081	ppb	99
32) DI-ISOPROPYL ETHER	3.439	45	491922	24.0856345	ppb	99
33) ETHYL TERT-BUTYL ETHER	3.644	59	447189	24.5885617	ppb	100
34) 2,2-DICHLOROPROPANE	3.918	77	153361	23.1647487	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.853	96	159373	23.3264483	ppb	98
36) 2-BUTANONE (MEK)	4.152	43	488542	122.1057779	ppb	98
37) BROMOCHLOROMETHANE	3.969	130	111785	23.7644583	ppb	97
38) TETRAHYDROFURAN	4.094	42	54340	22.3505011	ppb	97
39) CHLOROFORM	3.992	83	277642	23.8203697	ppb	98

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_12.D
 Acq On : 6 Aug 2020 12:48 am
 Operator : 3527
 Sample : STD VMS 25 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:20:40 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:19:15 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) CYCLOHEXANE	3.982	84	177072	24.4021403	ppb	98
41) 1,1,1-TRICHLOROETHANE	4.130	97	227667	24.0452528	ppb	100
42) CARBON TETRACHLORIDE	4.091	117	213592	24.1434986	ppb	98
43) 1,1-DICHLOROPROPENE	4.191	75	191630	25.4657956	ppb	97
44) 2,2,4-TRIMETHYLPENTANE	4.233	57	333194	23.8923779	ppb	96
45) n-Heptane	4.268	71	82371	25.1766074	ppb	# 96
46) BENZENE	4.336	78	576809	24.1778377	ppb	99
47) TERT-AMYL METHYL ETHER	4.361	73	433720	24.7146218	ppb	98
49) 1,2-DICHLOROETHANE	4.448	62	216461	23.7422199	ppb	100
50) T-AMYL ALCOHOL	4.445	59	72692	144.8154347	ppb	# 83
51) TRICHLOROETHENE	4.657	132	160568	23.6298767	ppb	98
52) METHYL CYCLOHEXANE	4.664	83	197105	24.6433680	ppb	97
53) TERT-AMYL ETHYL ETHER	4.744	59	330152	25.0289073	ppb	99
54) 1,2-DICHLOROPROPANE	4.969	62	103389	24.4965270	ppb	96
55) DIBROMOMETHANE	4.914	93	111432	24.2797827	ppb	99
56) BROMODICHLOROMETHANE	4.988	83	209664	24.5773225	ppb	99
57) 2-CHLOROETHYL VINYL ETHER	5.297	63	604270	127.2152823	ppb	99
58) CIS-1,3-DICHLOROPROPENE	5.364	75	238033	25.0359224	ppb	97
60) 4-METHYL-2-PENTANONE (...)	5.725	43	1177031	122.3236989	ppb	100
62) TOLUENE	5.516	91	637018	22.9783024	ppb	99
63) TRANS-1,3-DICHLOROPROPENE	5.763	75	241861	25.9454666	ppb	96
64) 1,1,2-TRICHLOROETHANE	5.873	97	146533	23.3776498	ppb	98
65) TETRACHLOROETHENE	5.770	164	129515	23.2469592	ppb	98
66) 1,3-DICHLOROPROPANE	6.059	76	242583	23.2640535	ppb	99
67) 2-HEXANONE	6.262	58	429002	127.2609851	ppb	96
68) CHLORODIBROMOMETHANE	6.001	129	170951	23.9249229	ppb	99
69) 1,2-DIBROMOETHANE	6.178	107	162418	23.2977696	ppb	100
70) CHLOROBENZENE	6.512	112	437017	24.3498151	ppb	99
71) 1,1,1,2-TETRACHLOROETHANE	6.545	133	152082	24.1057657	ppb	# 97
72) ETHYLBENZENE	6.506	106	229285	24.8821013	ppb	95
73) M&P-XYLENE	6.599	106	568024	49.3296665	ppb	98
74) O-XYLENE	6.908	106	269569	24.7155562	ppb	98
77) STYRENE	6.943	104	459572	26.0730517	ppb	99
78) BROMOFORM	6.985	173	138125	26.6900834	ppb	97
79) ISOPROPYLBENZENE	7.117	105	691203	24.4988617	ppb	98
82) BROMOBENZENE	7.409	77	298772	23.9104904	ppb	98
83) 1,1,2,2-TETRACHLOROETHANE	7.438	83	239876	25.5884257	ppb	100
84) 1,2,3-TRICHLOROPROPANE	7.541	110	75971	25.9740384	ppb	97
85) TRANS-1,4-DICHLORO-2-B...	7.551	53	55545	32.7573524	ppb	96
86) N-PROPYLBENZENE	7.393	91	800194	24.4202094	ppb	99
87) 4-ETHYLTOLUENE	7.461	105	692498	24.7546108	ppb	97
88) 2-CHLOROTOLUENE	7.512	91	549249	25.0781630	ppb	100
89) 4-CHLOROTOLUENE	7.615	91	498470	25.2623395	ppb	100
90) 1,3,5-TRIMETHYLBENZENE	7.509	105	596824	25.0440785	ppb	99
91) TERT-BUTYLBENZENE	7.708	119	521228	24.9210464	ppb	99
92) 1,2,4-TRIMETHYLBENZENE	7.744	105	644079	25.2032753	ppb	98
93) SEC-BUTYLBENZENE	7.798	105	864935	24.4600222	ppb	99
94) 1,3-DICHLOROBENZENE	7.911	146	556106	24.1815221	ppb	99
95) P-ISOPROPYLTOLUENE	7.856	119	838046	23.8772431	ppb	98
96) DICYCLOPENTADIENE	7.866	66	985218	22.5287911	ppb	97
97) 1,4-DICHLOROBENZENE	7.943	146	611841	23.4700351	ppb	# 3
98) 1,2,3-TRIMETHYLBENZENE	7.940	105	769274	22.7928646	ppb	97
99) 1,2-DICHLOROBENZENE	8.088	146	639227	22.4572394	ppb	99
100) N-BUTYLBENZENE	8.014	91	889852	22.7933437	ppb	99
101) 1,2-DIBROMO-3-CHLOROPR...	8.335	157	121271	24.4967104	ppb	94

Data Path : C:\msdchem\1\data\080520a\
Data File : 0805A_12.D
Acq On : 6 Aug 2020 12:48 am
Operator : 3527
Sample : STD VMS 25 ppb 20H05877
Misc : water SURR/IS 20G06381
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS35

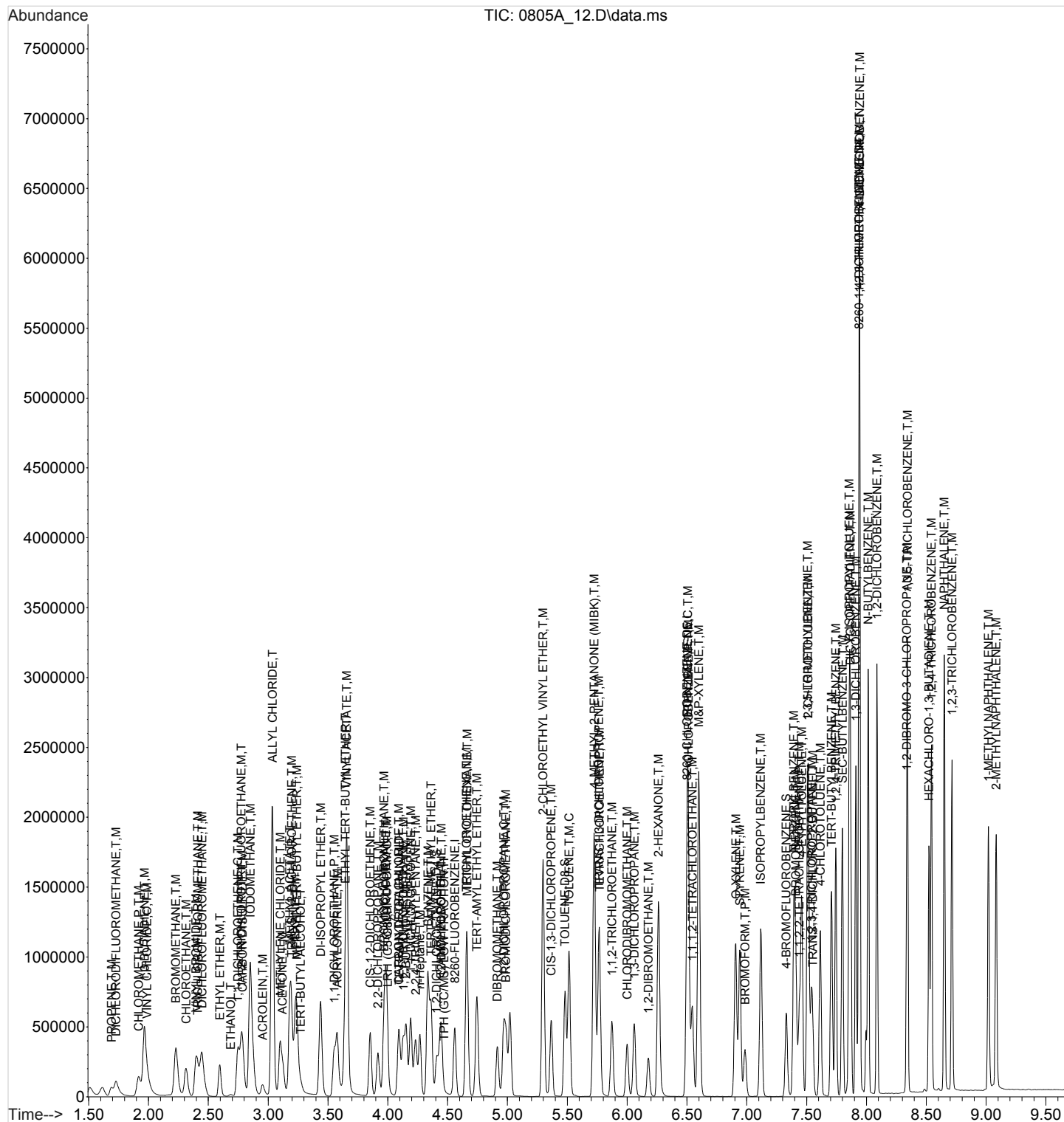
Quant Time: Aug 06 12:20:40 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:19:15 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) 1,3,5-TRICHLOROBENZENE	8.342	180	460766	22.8014464	ppb	100
103) 1,2,4-TRICHLOROBENZENE	8.544	180	418099	23.0909778	ppb	99
104) HEXACHLORO-1,3-BUTADIENE	8.522	225	173893	21.5586924	ppb	98
105) NAPHTHALENE	8.651	128	1283486	23.8035084	ppb	99
106) 1,2,3-TRICHLOROBENZENE	8.715	180	400804	22.5549005	ppb	98
107) 1-METHYLNAPHTHALENE	9.020	142	545870	26.2339864	ppb	100
108) 2-METHYLNAPHTHALENE	9.085	142	522345	24.8066441	ppb	99

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

Data Path : C:\msdchem\1\data\080520a\
Data File : 0805A_12.D
Acq On : 6 Aug 2020 12:48 am
Operator : 3527
Sample : STD VMS 25 ppb 20H05877
Misc : water SURR/IS 20G06381
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS35

Quant Time: Aug 06 12:20:40 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:19:15 2020
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_13.D
 Acq On : 6 Aug 2020 1:08 am
 Operator : 3527
 Sample : STD VMS 75 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:21:55 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:20:46 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	383461	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.500	82	165666	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.937	152	296026	16.0000000	ppb	# 0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.56
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.50
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.94
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.410	65	167823	20.8982385	ppb	0.00
Spiked Amount	16.000		Recovery	= 130.61%		
61) TOLUENE-D8	5.480	98	494787	19.4057275	ppb	0.00
Spiked Amount	16.000	Range 90 - 115	Recovery	= 121.29%#		
80) 4-BROMOFLUOROBENZENE	7.329	95	179927	20.9193695	ppb	0.00
Spiked Amount	16.000	Range 80 - 120	Recovery	= 130.75%#		
Target Compounds						
					Qvalue	
2) TPH (GC/MS) LOW FRACTION	4.470	TIC	57552090m	84.5186206	ppm	
3) LRH (C5-C8)	4.000	TIC	71058984m	2.7531702	ppm	
4) PROPENE	1.693	41	215000	92.5921322	ppb	96
5) DICHLORODIFLUOROMETHANE	1.731	85	526643	73.2352545	ppb	97
6) CHLOROMETHANE	1.918	50	627356	62.6265127	ppb	97
7) VINYL CHLORIDE	1.988	62	828816	68.4401346	ppb	99
8) 1,3-BUTADIENE	1.966	39	664780	64.3897814	ppb	98
9) BROMOMETHANE	2.226	94	1008417	82.2235866	ppb	99
10) CHLOROETHANE	2.313	64	576031	73.8882523	ppb	99
11) VINYL BROMIDE	2.397	106	404509	74.9466232	ppb	100
12) TRICHLOROFLUOROMETHANE	2.406	101	790333	77.0971269	ppb	# 97
13) DICHLOROFLUOROMETHANE	2.445	67	904315	69.3036433	ppb	98
14) ETHYL ETHER	2.596	59	374903	71.2346879	ppb	99
15) ACROLEIN	2.953	56	303284	573.1098867	ppb	86
16) ETHANOL	2.683	45	120250	9029.8817634	ppb	# 74
17) 1,1-DICHLOROETHENE	2.747	96	360873	69.8261855	ppb	98
18) 1,1,2-TRICHLOROTRIFLUO...	2.773	101	395131	71.5344543	ppb	99
19) ACETONE	3.120	43	902157	460.7400497	ppb	93
20) IODOMETHANE	2.850	142	4301824	383.6935305	ppb	99
21) CARBON DISULFIDE	2.786	76	1152666	70.7988587	ppb	99
22) ALLYL CHLORIDE	3.033	76	1457123	410.5015625	ppb	99
23) METHYLENE CHLORIDE	3.098	84	506064	76.9225104	ppb	99
24) METHYL ACETATE	3.181	43	2520203	459.5040991	ppb	# 99
25) ACRYLONITRILE	3.577	53	1227575	381.4053401	ppb	96
26) n-HEXANE	3.226	56	333337	80.2334266	ppb	# 97
27) TRANS-1,2-DICHLOROETHENE	3.197	96	495847	76.9727993	ppb	99
28) METHYL TERT-BUTYL ETHER	3.239	73	1483059	83.1214429	ppb	99
29) TERT-BUTYL ALCOHOL	3.271	59	295151	694.1964965	ppb	# 100
30) 1,1-DICHLOROETHANE	3.551	63	901259	74.2011699	ppb	99
31) VINYL ACETATE	3.657	43	7257241	510.5001238	ppb	98
32) DI-ISOPROPYL ETHER	3.439	45	1682490	75.7993186	ppb	98
33) ETHYL TERT-BUTYL ETHER	3.644	59	1647259	82.4950261	ppb	98
34) 2,2-DICHLOROPROPANE	3.918	77	567687	80.4077084	ppb	98
35) CIS-1,2-DICHLOROETHENE	3.853	96	551890	75.4930357	ppb	99
36) 2-BUTANONE (MEK)	4.152	43	1706200	389.7236160	ppb	97
37) BROMOCHLOROMETHANE	3.969	130	392044	77.1935775	ppb	94
38) TETRAHYDROFURAN	4.095	42	202334	79.3811327	ppb	98
39) CHLOROFORM	3.992	83	944741	74.9860377	ppb	99

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_13.D
 Acq On : 6 Aug 2020 1:08 am
 Operator : 3527
 Sample : STD VMS 75 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:21:55 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:20:46 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) CYCLOHEXANE	3.982	84	641218	80.7873460	ppb	97
41) 1,1,1-TRICHLOROETHANE	4.130	97	780924	75.9532616	ppb	99
42) CARBON TETRACHLORIDE	4.091	117	764867	79.4585154	ppb	97
43) 1,1-DICHLOROPROPENE	4.191	75	650013	77.3079293	ppb	98
44) 2,2,4-TRIMETHYLPENTANE	4.233	57	1171937	77.6301958	ppb	92
45) n-Heptane	4.268	71	279897	77.0061112	ppb	# 92
46) BENZENE	4.336	78	1973133	75.9587367	ppb	99
47) TERT-AMYL METHYL ETHER	4.361	73	1539365	79.6906484	ppb	96
49) 1,2-DICHLOROETHANE	4.448	62	766393	77.8920727	ppb	99
50) T-AMYL ALCOHOL	4.445	59	354160	590.5223388	ppb	# 84
51) TRICHLOROETHENE	4.657	132	549641	75.1248786	ppb	97
52) METHYL CYCLOHEXANE	4.664	83	706632	80.3784925	ppb	96
53) TERT-AMYL ETHYL ETHER	4.744	59	1160291	79.4107389	ppb	98
54) 1,2-DICHLOROPROPANE	4.969	62	356123	76.9947036	ppb	96
55) DIBROMOMETHANE	4.914	93	391924	78.2660323	ppb	98
56) BROMODICHLOROMETHANE	4.988	83	721139	77.0108629	ppb	98
57) 2-CHLOROETHYL VINYL ETHER	5.297	63	2217170	417.9373895	ppb	99
58) CIS-1,3-DICHLOROPROPENE	5.365	75	847791	80.4894002	ppb	96
60) 4-METHYL-2-PENTANONE (...)	5.725	43	4289952	387.2911398	ppb	98
62) TOLUENE	5.516	91	2179609	70.4138523	ppb	96
63) TRANS-1,3-DICHLOROPROPENE	5.763	75	894020	80.8901209	ppb	97
64) 1,1,2-TRICHLOROETHANE	5.873	97	513047	72.7002571	ppb	99
65) TETRACHLOROETHENE	5.770	164	461733	73.8116995	ppb	98
66) 1,3-DICHLOROPROPANE	6.059	76	840857	71.7929053	ppb	100
67) 2-HEXANONE	6.262	58	1573860	397.6309054	ppb	93
68) CHLORODIBROMOMETHANE	6.001	129	608434	74.7860129	ppb	99
69) 1,2-DIBROMOETHANE	6.178	107	569285	72.6509013	ppb	99
70) CHLOROBENZENE	6.512	112	1564020	75.8773688	ppb	98
71) 1,1,1,2-TETRACHLOROETHANE	6.545	133	550897	76.4080629	ppb	# 97
72) ETHYLBENZENE	6.506	106	825041	77.1259195	ppb	94
73) M&P-XYLENE	6.599	106	2008001	150.8740645	ppb	99
74) O-XYLENE	6.908	106	947259	75.0645753	ppb	97
77) STYRENE	6.943	104	1698151	81.0552137	ppb	99
78) BROMOFORM	6.985	173	523261	84.0517823	ppb	97
79) ISOPROPYLBENZENE	7.117	105	2487761	76.5441295	ppb	99
82) BROMOBENZENE	7.410	77	1092518	75.8681365	ppb	98
83) 1,1,2,2-TETRACHLOROETHANE	7.438	83	894336	80.0369557	ppb	99
84) 1,2,3-TRICHLOROPROPANE	7.541	110	266823	75.9539039	ppb	88
85) TRANS-1,4-DICHLORO-2-B...	7.551	53	215752	93.4965572	ppb	# 90
86) N-PROPYLBENZENE	7.393	91	2900137	76.0067687	ppb	99
87) 4-ETHYLTOLUENE	7.461	105	2474747	75.4604335	ppb	97
88) 2-CHLOROTOLUENE	7.512	91	1986788	76.8800804	ppb	99
89) 4-CHLOROTOLUENE	7.615	91	1748234	74.8127551	ppb	100
90) 1,3,5-TRIMETHYLBENZENE	7.509	105	2169418	77.2028911	ppb	97
91) TERT-BUTYLBENZENE	7.709	119	1840190	74.8000290	ppb	99
92) 1,2,4-TRIMETHYLBENZENE	7.744	105	2327194	76.9843815	ppb	98
93) SEC-BUTYLBENZENE	7.799	105	3030344	73.5351943	ppb	97
94) 1,3-DICHLOROBENZENE	7.911	146	1934951	72.6069682	ppb	99
95) P-ISOPROPYLTOLUENE	7.856	119	3031880	75.0077044	ppb	98
96) DICYCLOPENTADIENE	7.866	66	3355057	68.5066812	ppb	95
97) 1,4-DICHLOROBENZENE	7.943	146	2185449	73.4051870	ppb	# 1
98) 1,2,3-TRIMETHYLBENZENE	7.940	105	2788760	73.3753488	ppb	96
99) 1,2-DICHLOROBENZENE	8.088	146	2196128	68.9986637	ppb	99
100) N-BUTYLBENZENE	8.014	91	3020241	68.6987264	ppb	98
101) 1,2-DIBROMO-3-CHLOROPR...	8.336	157	435677	75.4611380	ppb	93

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_13.D
 Acq On : 6 Aug 2020 1:08 am
 Operator : 3527
 Sample : STD VMS 75 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS35

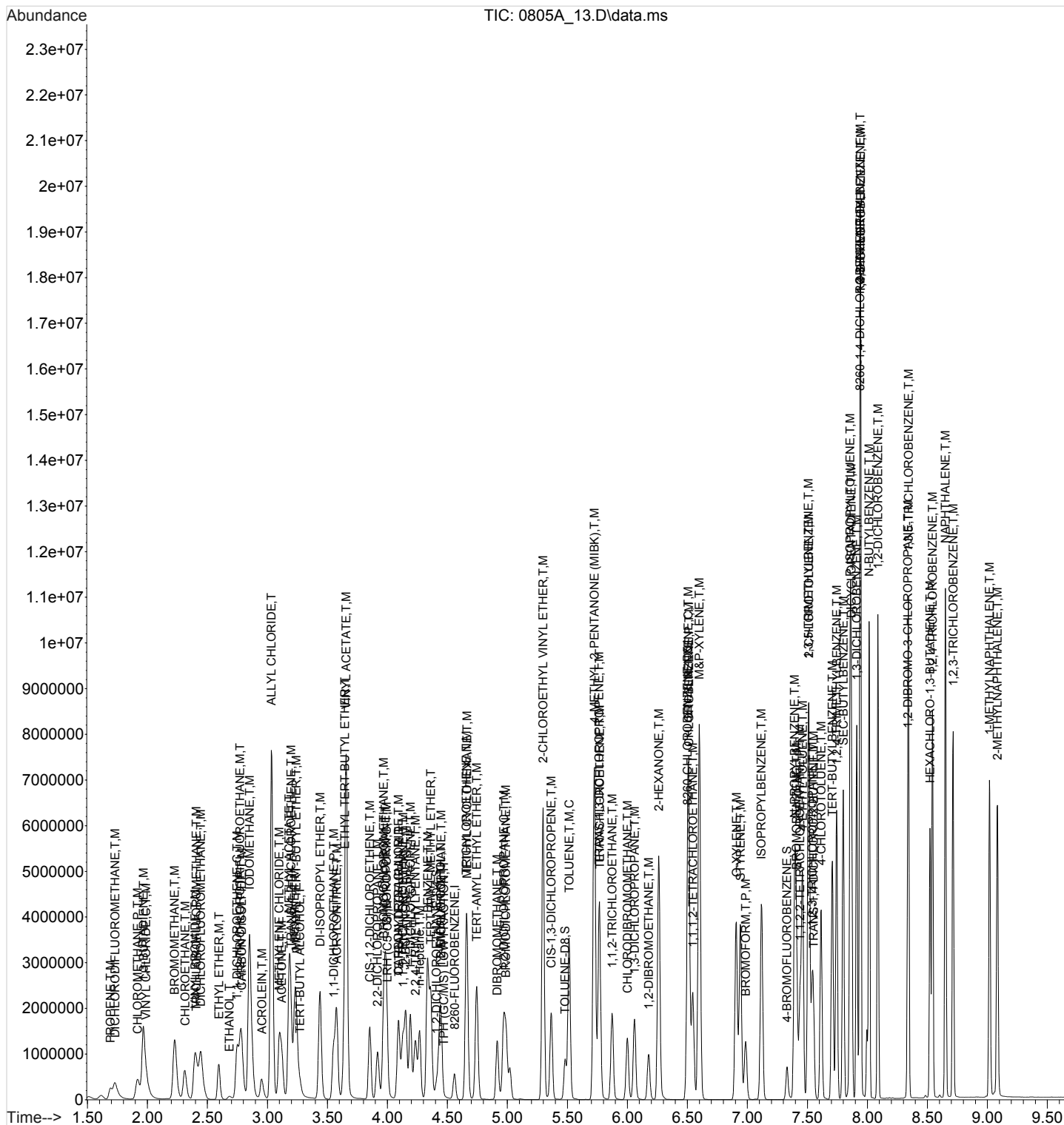
Quant Time: Aug 06 12:21:55 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:20:46 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
102) 1,3,5-TRICHLOROBENZENE	8.342	180	1568214	68.9017901	ppb		98
103) 1,2,4-TRICHLOROBENZENE	8.544	180	1418936	69.1586711	ppb		99
104) HEXACHLORO-1,3-BUTADIENE	8.522	225	569609	64.3725373	ppb		96
105) NAPHTHALENE	8.651	128	4442416	71.6477013	ppb		98
106) 1,2,3-TRICHLOROBENZENE	8.715	180	1363134	68.4599198	ppb		97
107) 1-METHYLNAPHTHALENE	9.017	142	1992663	79.3295543	ppb		99
108) 2-METHYLNAPHTHALENE	9.085	142	1861069	75.3130113	ppb		99

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

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QLast Update : Thu Aug 06 12:20:46 2020
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_14.D
 Acq On : 6 Aug 2020 1:28 am
 Operator : 3527
 Sample : STD VMS 100 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:23:14 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:22:03 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	393418	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.503	82	167949	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.937	152	287306	16.0000000	ppb	# 0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.56
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.50
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.94
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.410	65	171863	20.8934246	ppb	0.00
Spiked Amount	16.000		Recovery	= 130.58%		
61) TOLUENE-D8	5.480	98	522298	20.7308755	ppb	0.00
Spiked Amount	16.000	Range 90 - 115	Recovery	= 129.57%#		
80) 4-BROMOFLUOROBENZENE	7.329	95	182297	20.9336002	ppb	0.00
Spiked Amount	16.000	Range 80 - 120	Recovery	= 130.84%#		
Target Compounds						
					Qvalue	
2) TPH (GC/MS) LOW FRACTION	4.470	TIC	78281004m	53.9922735	ppm	
3) LRH (C5-C8)	4.000	TIC	104063678m	4.7947654	ppm	
4) PROPENE	1.693	41	321636	125.2198151	ppb	99
5) DICHLORODIFLUOROMETHANE	1.731	85	792340	108.2435858	ppb	96
6) CHLOROMETHANE	1.921	50	842829	86.7792154	ppb	97
7) VINYL CHLORIDE	1.992	62	1138674	94.3993904	ppb	100
8) 1,3-BUTADIENE	1.966	39	890164	88.1971280	ppb	97
9) BROMOMETHANE	2.223	94	1411613	108.6963778	ppb	99
10) CHLOROETHANE	2.313	64	784825	98.6099078	ppb	99
11) VINYL BROMIDE	2.397	106	563892	101.8567533	ppb	98
12) TRICHLOROFLUOROMETHANE	2.413	101	1151372	108.4629954	ppb	# 97
13) DICHLOROFLUOROMETHANE	2.448	67	1373126	105.2326162	ppb	98
14) ETHYL ETHER	2.593	59	552426	104.0502172	ppb	98
15) ACROLEIN	2.950	56	473356	741.3100187	ppb	86
16) ETHANOL	2.683	45	253115	12608.5345016	ppb	# 76
17) 1,1-DICHLOROETHENE	2.744	96	532573	102.8047406	ppb	97
18) 1,1,2-TRICHLOROTRIFLUO...	2.773	101	589700	105.6850373	ppb	99
19) ACETONE	3.120	43	1451473	671.3537071	ppb	94
20) IODOMETHANE	2.850	142	6161172	531.5192523	ppb	100
21) CARBON DISULFIDE	2.783	76	1660247	101.2857028	ppb	98
22) ALLYL CHLORIDE	3.033	76	2092794	557.0816456	ppb	97
23) METHYLENE CHLORIDE	3.098	84	702256	103.1609604	ppb	97
24) METHYL ACETATE	3.178	43	3494939	577.7043237	ppb	# 100
25) ACRYLONITRILE	3.577	53	1809768	544.9578481	ppb	96
26) n-HEXANE	3.226	56	487312	111.7274891	ppb	# 96
27) TRANS-1,2-DICHLOROETHENE	3.194	96	697644	104.6403378	ppb	98
28) METHYL TERT-BUTYL ETHER	3.239	73	1995785	105.2290547	ppb	96
29) TERT-BUTYL ALCOHOL	3.268	59	493901	882.0054600	ppb	# 100
30) 1,1-DICHLOROETHANE	3.551	63	1268029	102.1179158	ppb	99
31) VINYL ACETATE	3.657	43	9900597	605.8460676	ppb	97
32) DI-ISOPROPYL ETHER	3.438	45	2304342	100.8292672	ppb	98
33) ETHYL TERT-BUTYL ETHER	3.644	59	2216483	104.7046829	ppb	98
34) 2,2-DICHLOROPROPANE	3.918	77	686153	92.5043573	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.853	96	770267	102.4736052	ppb	99
36) 2-BUTANONE (MEK)	4.152	43	2417298	531.2230707	ppb	96
37) BROMOCHLOROMETHANE	3.969	130	543217	103.2459802	ppb	94
38) TETRAHYDROFURAN	4.094	42	291377	109.2937912	ppb	98
39) CHLOROFORM	3.992	83	1317873	101.9612446	ppb	100

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_14.D
 Acq On : 6 Aug 2020 1:28 am
 Operator : 3527
 Sample : STD VMS 100 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:23:14 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:22:03 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) CYCLOHEXANE	3.982	84	890770	106.6450538	ppb	96
41) 1,1,1-TRICHLOROETHANE	4.130	97	1073551	101.3424074	ppb	99
42) CARBON TETRACHLORIDE	4.091	117	1046750	103.9304494	ppb	97
43) 1,1-DICHLOROPROPENE	4.191	75	904743	103.8154848	ppb	98
44) 2,2,4-TRIMETHYLPENTANE	4.236	57	1593070	101.6672076	ppb	90
45) n-Heptane	4.268	71	407151	108.2167278	ppb	# 93
46) BENZENE	4.332	78	2729041	101.9651560	ppb	99
47) TERT-AMYL METHYL ETHER	4.361	73	2044287	101.0447603	ppb	96
49) 1,2-DICHLOROETHANE	4.445	62	1052739	102.9633626	ppb	100
50) T-AMYL ALCOHOL	4.442	59	512160	698.5345960	ppb	# 70
51) TRICHLOROETHENE	4.657	132	774033	103.0600004	ppb	97
52) METHYL CYCLOHEXANE	4.660	83	977364	105.8304042	ppb	95
53) TERT-AMYL ETHYL ETHER	4.744	59	1572094	102.8552756	ppb	98
54) 1,2-DICHLOROPROPANE	4.969	62	492974	102.9718727	ppb	96
55) DIBROMOMETHANE	4.914	93	541098	103.8139199	ppb	98
56) BROMODICHLOROMETHANE	4.988	83	993629	102.5085564	ppb	99
57) 2-CHLOROETHYL VINYL ETHER	5.297	63	3138850	555.4982933	ppb	99
58) CIS-1,3-DICHLOROPROPENE	5.364	75	1185306	107.0727376	ppb	96
60) 4-METHYL-2-PENTANONE (...)	5.725	43	5802079	511.0996660	ppb	98
62) TOLUENE	5.516	91	3023444	98.3515115	ppb	97
63) TRANS-1,3-DICHLOROPROPENE	5.763	75	1242366	108.0515344	ppb	98
64) 1,1,2-TRICHLOROETHANE	5.872	97	700139	98.8737094	ppb	99
65) TETRACHLOROETHENE	5.770	164	655858	103.9680283	ppb	99
66) 1,3-DICHLOROPROPANE	6.059	76	1154286	98.6196928	ppb	100
67) 2-HEXANONE	6.262	58	2147157	524.5466125	ppb	93
68) CHLORODIBROMOMETHANE	6.001	129	831625	100.9261344	ppb	98
69) 1,2-DIBROMOETHANE	6.178	107	784926	99.8513648	ppb	99
70) CHLOROBENZENE	6.512	112	2152024	102.5847567	ppb	98
71) 1,1,1,2-TETRACHLOROETHANE	6.544	133	733486	99.7257254	ppb	# 97
72) ETHYLBENZENE	6.506	106	1142111	104.3289705	ppb	93
73) M&P-XYLENE	6.599	106	2767973	204.7508619	ppb	99
74) O-XYLENE	6.908	106	1279473	99.9835968	ppb	98
77) STYRENE	6.943	104	2332350	106.9352975	ppb	99
78) BROMOFORM	6.985	173	719483	109.5911859	ppb	96
79) ISOPROPYLBENZENE	7.117	105	3369788	101.5760879	ppb	99
82) BROMOBENZENE	7.409	77	1487576	106.0285176	ppb	97
83) 1,1,2,2-TETRACHLOROETHANE	7.438	83	1186251	106.9883545	ppb	99
84) 1,2,3-TRICHLOROPROPANE	7.541	110	354035	103.4000780	ppb	87
85) TRANS-1,4-DICHLORO-2-B...	7.551	53	290324	119.7839367	ppb	# 87
86) N-PROPYLBENZENE	7.397	91	3962417	106.5222097	ppb	99
87) 4-ETHYLTOLUENE	7.461	105	3335721	104.5864809	ppb	96
88) 2-CHLOROTOLUENE	7.512	91	2684868	106.1589346	ppb	98
89) 4-CHLOROTOLUENE	7.615	91	2353839	103.8722579	ppb	100
90) 1,3,5-TRIMETHYLBENZENE	7.509	105	2927605	106.3057194	ppb	97
91) TERT-BUTYLBENZENE	7.708	119	2453738	102.8581254	ppb	99
92) 1,2,4-TRIMETHYLBENZENE	7.744	105	3092532	104.4854802	ppb	99
93) SEC-BUTYLBENZENE	7.798	105	4065007	102.3025312	ppb	97
94) 1,3-DICHLOROBENZENE	7.911	146	2594621	101.3937497	ppb	100
95) P-ISOPROPYLTOLUENE	7.856	119	4116102	104.9180680	ppb	98
96) DICYCLOPENTADIENE	7.866	66	4483573	97.1315300	ppb	95
97) 1,4-DICHLOROBENZENE	7.943	146	2938830	102.4318378	ppb	# 1
98) 1,2,3-TRIMETHYLBENZENE	7.940	105	3649432	99.6544621	ppb	97
99) 1,2-DICHLOROBENZENE	8.088	146	2885723	95.9762740	ppb	99
100) N-BUTYLBENZENE	8.014	91	4056342	97.8054548	ppb	98
101) 1,2-DIBROMO-3-CHLOROPR...	8.335	157	577702	102.8865424	ppb	91

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 Acq On : 6 Aug 2020 1:28 am
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 Misc : water SURR/IS 20G06381
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:23:14 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:22:03 2020
 Response via : Initial Calibration

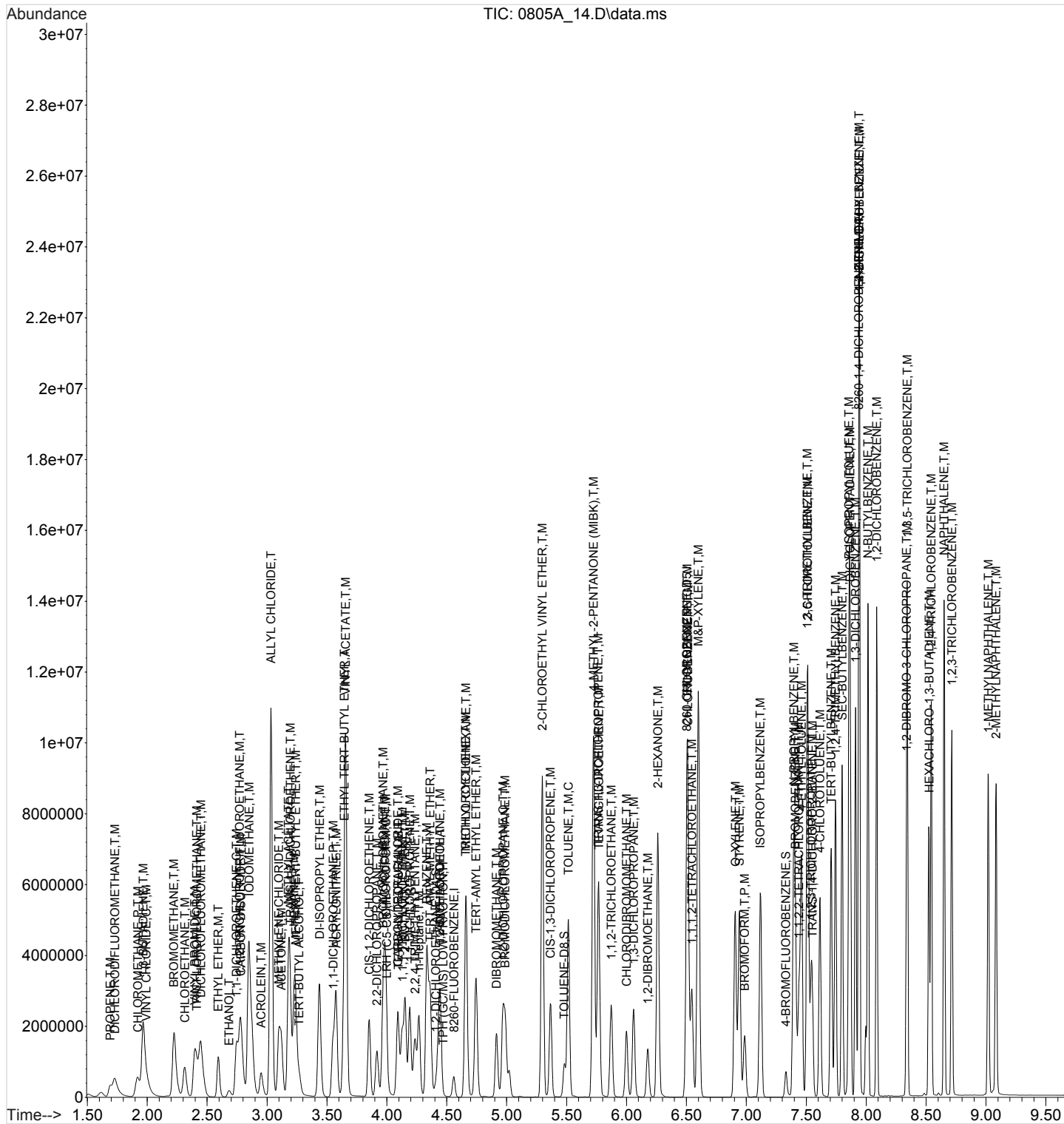
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
102) 1,3,5-TRICHLOROBENZENE	8.342	180	2050119	95.3943417	ppb		99
103) 1,2,4-TRICHLOROBENZENE	8.544	180	1842612	95.0006875	ppb		99
104) HEXACHLORO-1,3-BUTADIENE	8.525	225	766023	93.6190276	ppb		97
105) NAPHTHALENE	8.650	128	5615450	94.7266217	ppb		98
106) 1,2,3-TRICHLOROBENZENE	8.715	180	1756079	93.5917988	ppb		97
107) 1-METHYLNAPHTHALENE	9.020	142	2589729	104.2228944	ppb		99
108) 2-METHYLNAPHTHALENE	9.085	142	2410960	100.3873407	ppb		98

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

(QT Reviewed)

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QLast Update : Thu Aug 06 12:22:03 2020
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_15.D
 Acq On : 6 Aug 2020 1:48 am
 Operator : 3527
 Sample : STD VMS 200 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 15 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:24:43 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:23:20 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	436908	16.0000000	ppb	# 0.00
59) 8260-CHLOROBENZENE-D5	6.503	82	199163	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.940	152	342544	16.0000000	ppb	# 0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.56
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.50
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.94
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.410	65	199991	22.1716330	ppb	0.00
Spiked Amount	16.000		Recovery	= 138.57%		
61) TOLUENE-D8	5.480	98	602650	20.4664324	ppb	0.00
Spiked Amount	16.000	Range 90 - 115	Recovery	= 127.92%#		
80) 4-BROMOFLUOROBENZENE	7.332	95	213623	20.9399762	ppb	0.00
Spiked Amount	16.000	Range 80 - 120	Recovery	= 130.87%#		
Target Compounds						
					Qvalue	
2) TPH (GC/MS) LOW FRACTION	4.470	TIC	160062983m	99.4100659	ppm	
3) LRH (C5-C8)	4.000	TIC	201033456m	4.7690671	ppm	
4) PROPENE	1.696	41	678293	223.6847968	ppb	98
5) DICHLORODIFLUOROMETHANE	1.734	85	1990301	239.8911363	ppb	97
6) CHLOROMETHANE	1.921	50	1886416	180.8734460	ppb	97
7) VINYL CHLORIDE	1.995	62	2416254	182.9364963	ppb	100
8) 1,3-BUTADIENE	1.969	39	1519866	139.7209787	ppb	99
9) BROMOMETHANE	2.226	94	2844780	193.0507711	ppb	99
10) CHLOROETHANE	2.310	64	1890255	214.6071815	ppb	99
11) VINYL BROMIDE	2.397	106	1100490	178.1693295	ppb	99
12) TRICHLOROFLUOROMETHANE	2.416	101	2828769	234.9821739	ppb	# 97
13) DICHLOROFLUOROMETHANE	2.448	67	3222605	219.5163541	ppb	98
14) ETHYL ETHER	2.596	59	1004222	168.6116149	ppb	98
15) ACROLEIN	2.953	56	1080548	1359.7164121	ppb	86
16) ETHANOL	2.689	45	462920	15041.9293108	ppb	# 77
17) 1,1-DICHLOROETHENE	2.747	96	950112	163.9979606	ppb	98
18) 1,1,2-TRICHLOROTRIFLUO...	2.776	101	1067266	169.8205653	ppb	99
19) ACETONE	3.120	43	2373615	910.5763326	ppb	96
20) IODOMETHANE	2.850	142	10922994	835.3541691	ppb	99
21) CARBON DISULFIDE	2.786	76	2709726	148.3786291	ppb	98
22) ALLYL CHLORIDE	3.033	76	3782864	881.5679487	ppb	95
23) METHYLENE CHLORIDE	3.101	84	1205347	158.1895385	ppb	96
24) METHYL ACETATE	3.181	43	6067710	869.3633254	ppb	# 98
25) ACRYLONITRILE	3.577	53	3309039	877.5093584	ppb	94
26) n-HEXANE	3.226	56	763935	153.2229070	ppb	# 99
27) TRANS-1,2-DICHLOROETHENE	3.194	96	1215943	162.3429870	ppb	99
28) METHYL TERT-BUTYL ETHER	3.242	73	3667116	171.8581795	ppb	95
29) TERT-BUTYL ALCOHOL	3.271	59	957224	1292.3984230	ppb	# 100
30) 1,1-DICHLOROETHANE	3.551	63	2230411	160.8897779	ppb	99
32) DI-ISOPROPYL ETHER	3.438	45	4278302	168.2193339	ppb	99
33) ETHYL TERT-BUTYL ETHER	3.647	59	4352170	182.9757530	ppb	98
34) 2,2-DICHLOROPROPANE	3.918	77	1264408	156.4257324	ppb	97
35) CIS-1,2-DICHLOROETHENE	3.853	96	1375139	163.7209061	ppb	99
36) 2-BUTANONE (MEK)	4.152	43	4680726	912.0036128	ppb	97
37) BROMOCHLOROMETHANE	3.969	130	996615	169.1926109	ppb	92
38) TETRAHYDROFURAN	4.094	42	533328	176.0449910	ppb	98
39) CHLOROFORM	3.991	83	2460210	170.5586639	ppb	99
40) CYCLOHEXANE	3.982	84	1506313	159.7346322	ppb	97

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_15.D
 Acq On : 6 Aug 2020 1:48 am
 Operator : 3527
 Sample : STD VMS 200 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 15 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:24:43 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:23:20 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
41) 1,1,1-TRICHLOROETHANE	4.130	97	1920995	162.7436078	ppb		99
42) CARBON TETRACHLORIDE	4.091	117	1837911	162.7203766	ppb		97
43) 1,1-DICHLOROPROPENE	4.191	75	1579903	161.6994642	ppb		98
44) 2,2,4-TRIMETHYLPENTANE	4.236	57	2440163	139.6441405	ppb	#	88
45) n-Heptane	4.268	71	604344	141.7282844	ppb	#	54
46) BENZENE	4.336	78	4898925	164.0130220	ppb		99
47) TERT-AMYL METHYL ETHER	4.361	73	3944656	175.1106020	ppb		95
49) 1,2-DICHLOROETHANE	4.448	62	1937544	169.3839427	ppb		100
50) T-AMYL ALCOHOL	4.445	59	1077178	1203.4572266	ppb	#	74
51) TRICHLOROETHENE	4.660	132	1437344	171.0196066	ppb		97
52) METHYL CYCLOHEXANE	4.664	83	1630172	156.6632695	ppb		95
53) TERT-AMYL ETHYL ETHER	4.744	59	3099599	181.3129147	ppb		98
54) 1,2-DICHLOROPROPANE	4.969	62	930304	173.6876631	ppb		96
55) DIBROMOMETHANE	4.914	93	1026468	175.6580314	ppb		98
56) BROMODICHLOROMETHANE	4.991	83	1975486	182.3723185	ppb		98
57) 2-CHLOROETHYL VINYL ETHER	5.300	63	6668367	1033.9719686	ppb		99
58) CIS-1,3-DICHLOROPROPENE	5.368	75	2304157	184.1673734	ppb		97
60) 4-METHYL-2-PENTANONE (...)	5.725	43	12617337	932.0835148	ppb		95
62) TOLUENE	5.516	91	5667309	156.1055295	ppb		96
63) TRANS-1,3-DICHLOROPROPENE	5.763	75	2567274	184.5726478	ppb		97
64) 1,1,2-TRICHLOROETHANE	5.872	97	1443408	172.3768770	ppb		98
65) TETRACHLOROETHENE	5.770	164	1238457	163.9278260	ppb		99
66) 1,3-DICHLOROPROPANE	6.059	76	2282025	164.9835404	ppb		100
67) 2-HEXANONE	6.262	58	4833215	983.6200629	ppb		90
68) CHLORODIBROMOMETHANE	6.001	129	1743589	178.0264825	ppb		99
69) 1,2-DIBROMOETHANE	6.178	107	1550241	166.3622098	ppb		99
70) CHLOROBENZENE	6.512	112	4567978	182.4446587	ppb		97
71) 1,1,1,2-TETRACHLOROETHANE	6.544	133	1532677	175.8460715	ppb	#	95
72) ETHYLBENZENE	6.506	106	2361244	179.9415135	ppb		91
73) M&P-XYLENE	6.599	106	5708804	354.0024935	ppb		97
74) O-XYLENE	6.908	106	2633373	173.5387966	ppb		100
77) STYRENE	6.943	104	4989516	189.6221957	ppb		99
78) BROMOFORM	6.988	173	1611930	202.1991938	ppb		96
79) ISOPROPYLBENZENE	7.120	105	6864497	173.8035057	ppb		98
82) BROMOBENZENE	7.409	77	3208693	188.9746189	ppb		95
83) 1,1,2,2-TETRACHLOROETHANE	7.442	83	2658229	197.6326289	ppb		99
84) 1,2,3-TRICHLOROPROPANE	7.541	110	781060	189.7192544	ppb		86
85) TRANS-1,4-DICHLORO-2-B...	7.551	53	661146	218.0095529	ppb	#	87
86) N-PROPYLBENZENE	7.397	91	8248079	182.9939979	ppb		99
87) 4-ETHYLTOLUENE	7.461	105	6901616	179.4376522	ppb		95
88) 2-CHLOROTOLUENE	7.515	91	5941397	194.0503794	ppb		97
89) 4-CHLOROTOLUENE	7.615	91	4989952	182.9209658	ppb		99
90) 1,3,5-TRIMETHYLBENZENE	7.512	105	6382839	191.3786237	ppb		95
91) TERT-BUTYLBENZENE	7.708	119	5245843	183.1310138	ppb		98
92) 1,2,4-TRIMETHYLBENZENE	7.744	105	6554634	183.6857953	ppb		97
93) SEC-BUTYLBENZENE	7.798	105	8432705	176.9813675	ppb		95
94) 1,3-DICHLOROBENZENE	7.911	146	5480341	179.0039253	ppb		99
95) P-ISOPROPYLTOLUENE	7.856	119	8419372	177.8136191	ppb		97
96) DICYCLOPENTADIENE	7.866	66	8821744	161.4523566	ppb	#	93
97) 1,4-DICHLOROBENZENE	7.943	146	6334301	184.0582071	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.940	105	7499071	171.9026592	ppb		90
99) 1,2-DICHLOROBENZENE	8.088	146	6025271	169.7872161	ppb		97
100) N-BUTYLBENZENE	8.014	91	7438057	151.2535592	ppb		90
101) 1,2-DIBROMO-3-CHLOROPR...	8.339	157	1301833	193.0703300	ppb		90
102) 1,3,5-TRICHLOROBENZENE	8.345	180	4250805	167.8311613	ppb		99

Data Path : C:\msdchem\1\data\080520a\
Data File : 0805A_15.D
Acq On : 6 Aug 2020 1:48 am
Operator : 3527
Sample : STD VMS 200 ppb 20H05877
Misc : water SURR/IS 20G06381
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS35

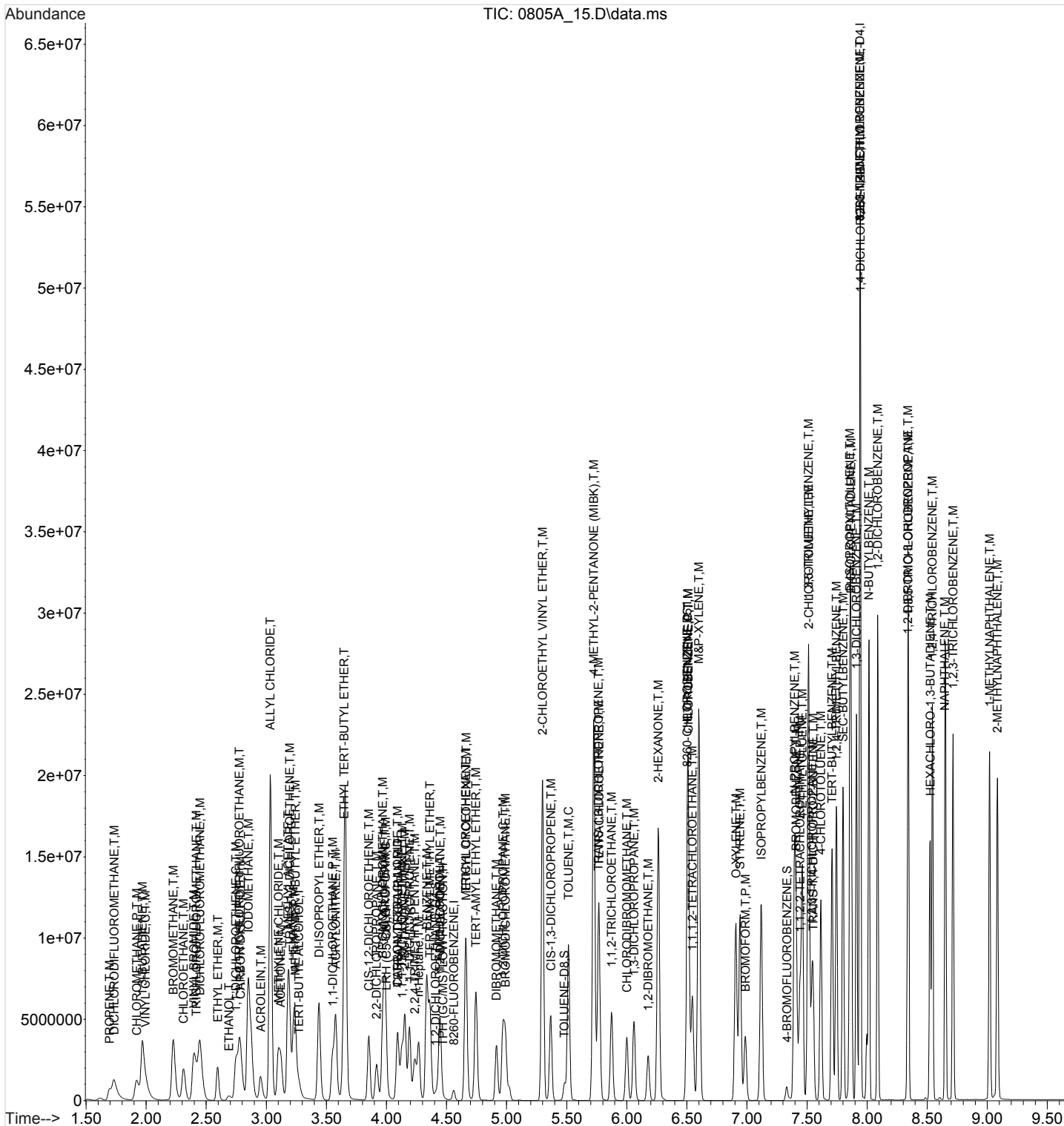
Quant Time: Aug 06 12:24:43 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:23:20 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
103) 1,2,4-TRICHLOROBENZENE	8.544	180	3909336	171.1931261	ppb		99
104) HEXACHLORO-1,3-BUTADIENE	8.525	225	1631855	169.9871610	ppb		97
105) NAPHTHALENE	8.647	128	9011231	129.2002969	ppb	#	87
106) 1,2,3-TRICHLOROBENZENE	8.715	180	3811644	173.1603114	ppb		97
107) 1-METHYLNAPHTHALENE	9.020	142	5923518	197.8590580	ppb		99
108) 2-METHYLNAPHTHALENE	9.085	142	5481846	191.2598277	ppb		99

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

Data Path : C:\msdchem\1\data\080520a\
Data File : 0805A_15.D
Acq On : 6 Aug 2020 1:48 am
Operator : 3527
Sample : STD VMS 200 ppb 20H05877
Misc : water SURR/IS 20G06381
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS35

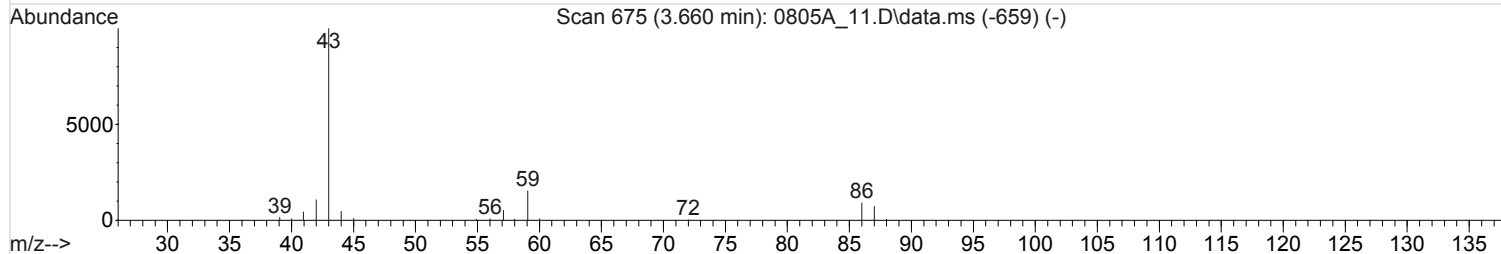
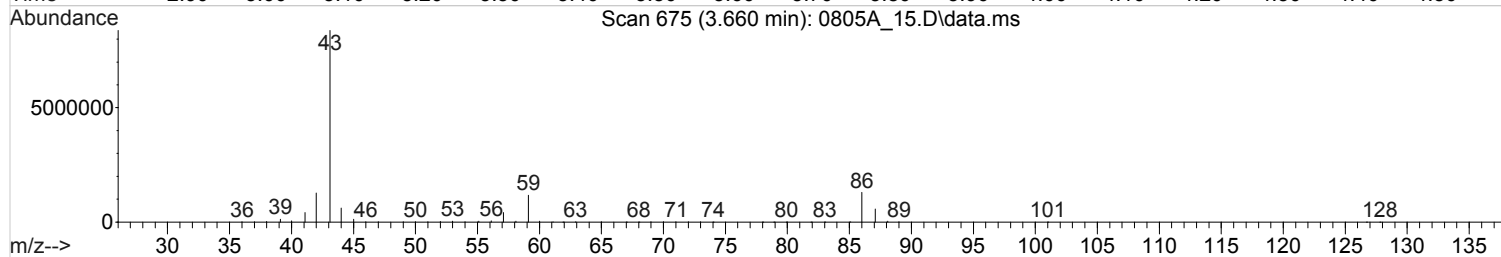
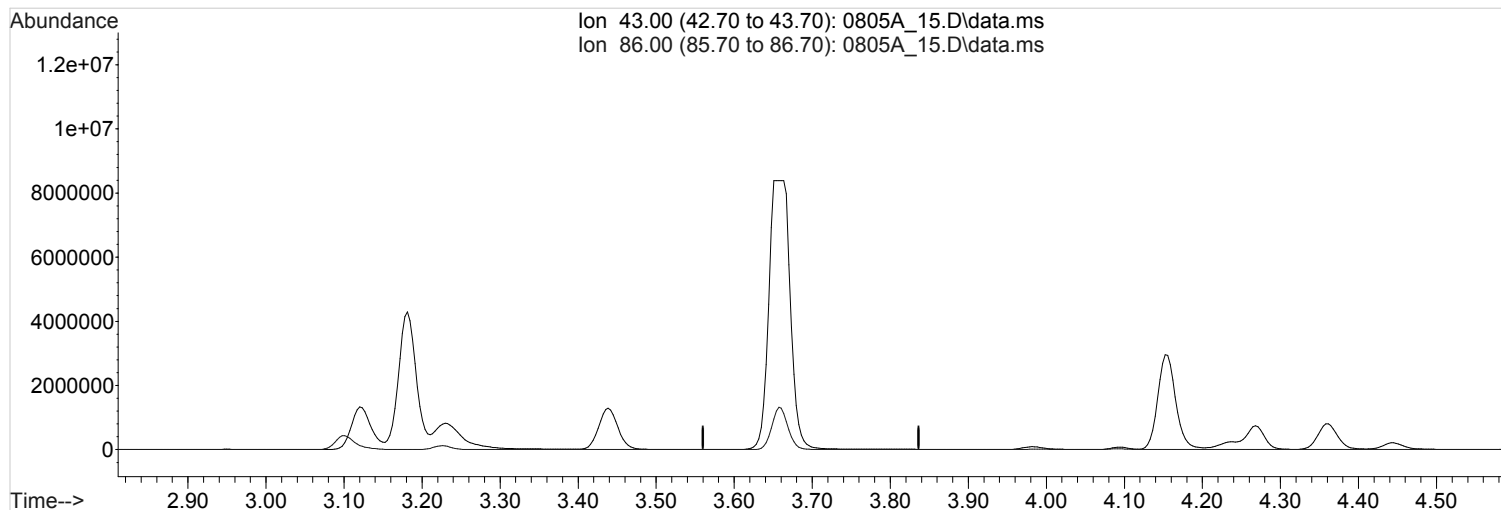
Quant Time: Aug 06 12:24:43 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:23:20 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_15.D
 Acq On : 6 Aug 2020 1:48 am
 Operator : 3527
 Sample : STD VMS 200 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 15 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:23:27 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:23:20 2020
 Response via : Initial Calibration



TIC: 0805A_15.D\data.ms

(31) VINYL ACETATE (T,M)

3.660min (-3.660) 0.0000000 ppb

Qvalue = 0

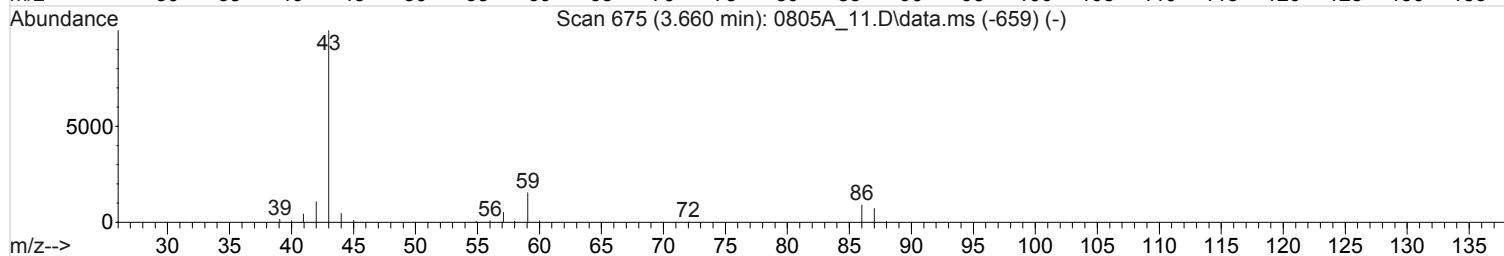
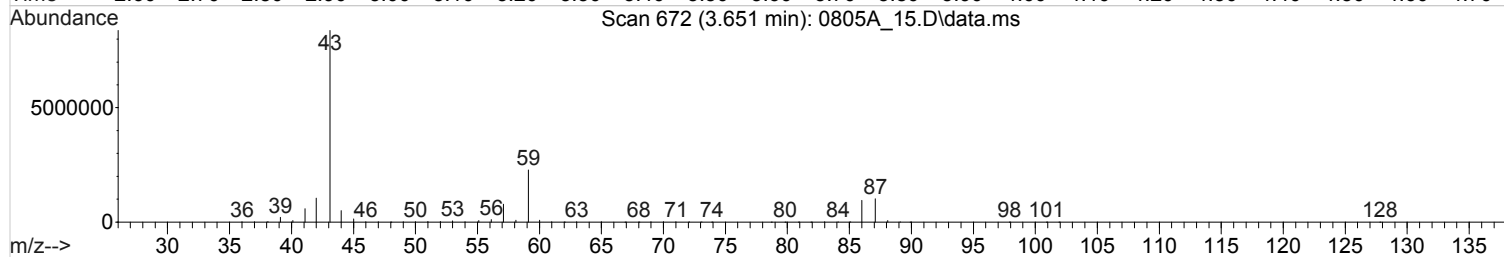
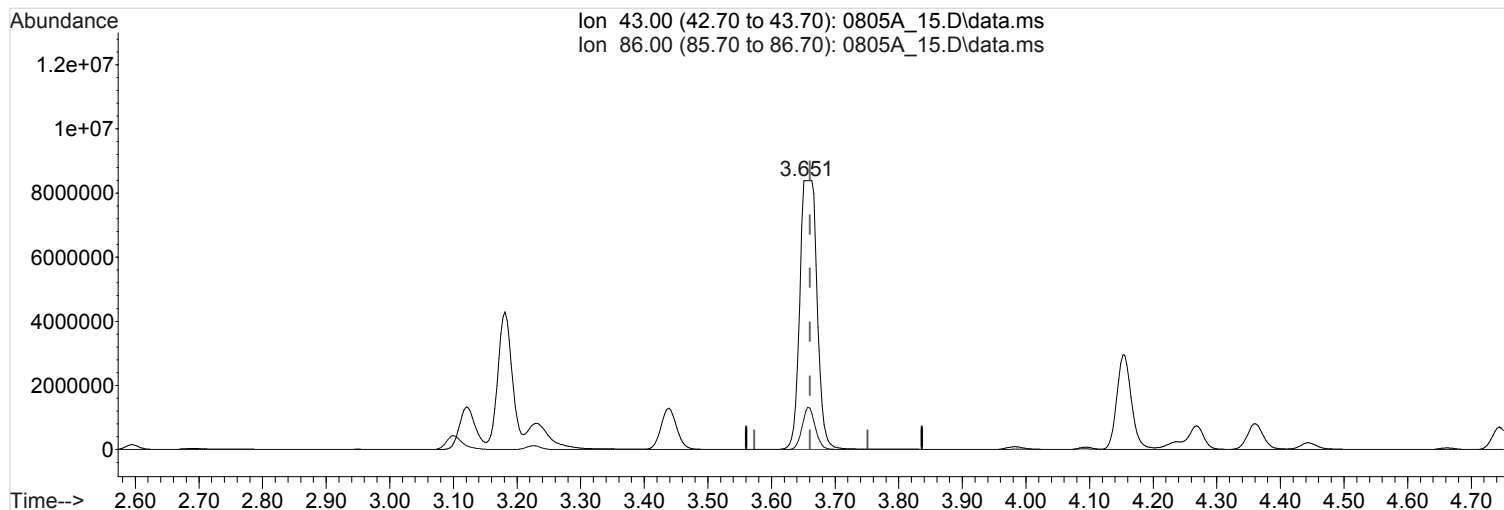
response 0

Ion	Exp%	Act%
43.00	100	0.00
86.00	8.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_15.D
 Acq On : 6 Aug 2020 1:48 am
 Operator : 3527
 Sample : STD VMS 200 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 15 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:23:27 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:23:20 2020
 Response via : Initial Calibration



TIC: 0805A_15.D\data.ms

(31) VINYL ACETATE (T,M)

3.651min (-0.010) 832.6087790 ppb m

response 15910084

Ion	Exp%	Act%
43.00	100	100
86.00	8.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_05.D
 Acq On : 5 Aug 2020 10:27 pm
 Operator : 3527
 Sample : STD VMS 0.04 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 5 Sample Multiplier: 1
 InstName : VOCMS35

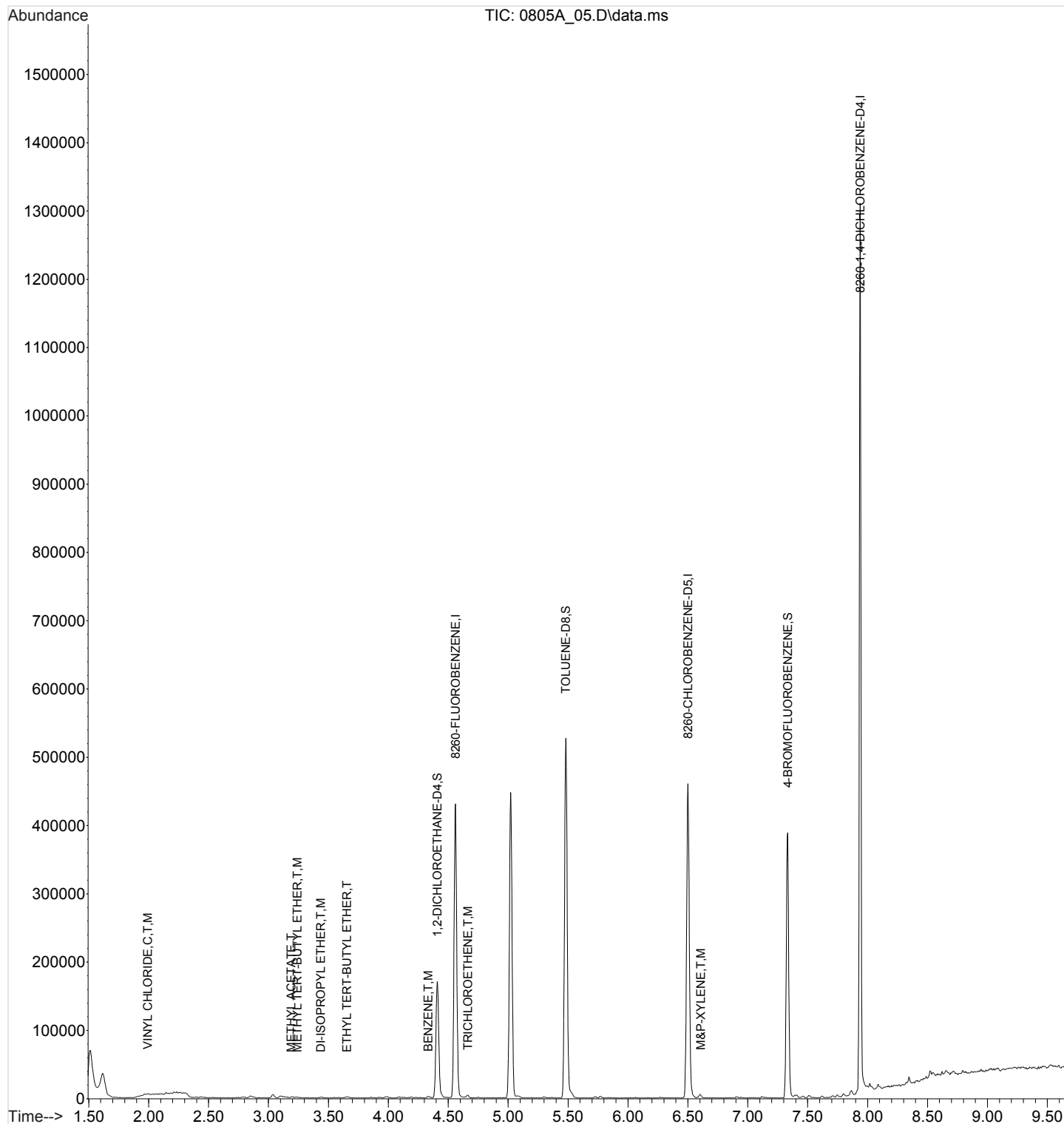
Quant Time: Aug 06 12:26:52 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:24:55 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	308720	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.500	82	115849	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.937	152	195511	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.56
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.50
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.94
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.410	65	96018	15.1741630	ppb	0.00
Spiked Amount	16.000		Recovery	=	94.84%	
61) TOLUENE-D8	5.480	98	300947	17.9662854	ppb	0.00
Spiked Amount	16.000	Range	90 - 115	Recovery	=	112.29%
80) 4-BROMOFLUOROBENZENE	7.332	95	97092	16.6601205	ppb	0.00
Spiked Amount	16.000	Range	80 - 120	Recovery	=	104.13%
Target Compounds						
7) VINYL CHLORIDE	1.992	62	776	0.0845900	ppb	# 50
24) METHYL ACETATE	3.188	43	542	0.1128493	ppb	# 53
28) METHYL TERT-BUTYL ETHER	3.239	73	386m	0.0263424	ppb	
32) DI-ISOPROPYL ETHER	3.435	45	1079	0.0620122	ppb	# 62
33) ETHYL TERT-BUTYL ETHER	3.654	59	650	0.0393444	ppb	# 67
46) BENZENE	4.332	78	1671	0.0821290	ppb	94
51) TRICHLOROETHENE	4.664	132	367	0.0636427	ppb	# 80
73) M&P-XYLENE	6.606	106	1295	0.1413033	ppb	96

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

Data Path : C:\msdchem\1\data\080520a\
Data File : 0805A_05.D
Acq On : 5 Aug 2020 10:27 pm
Operator : 3527
Sample : STD VMS 0.04 ppb 20H05877
Misc : water SURR/IS 20G06381
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS35

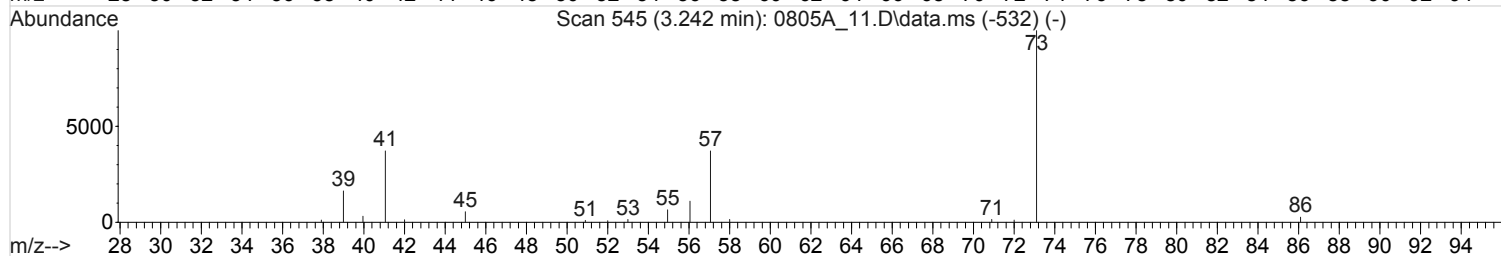
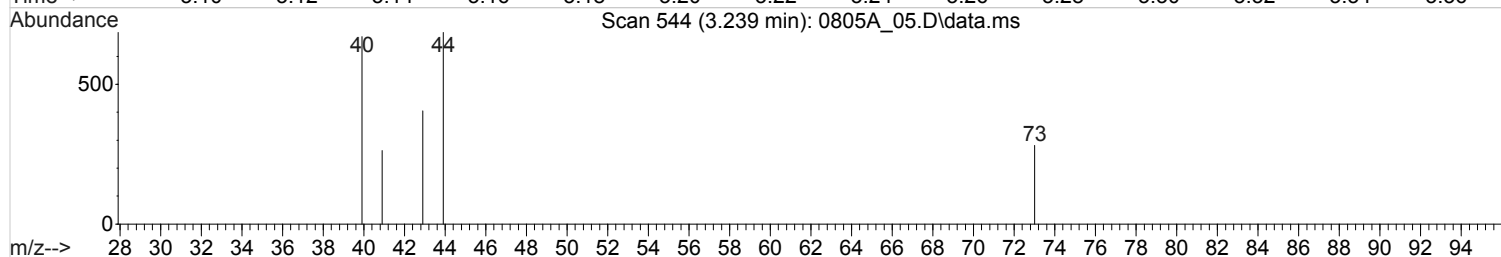
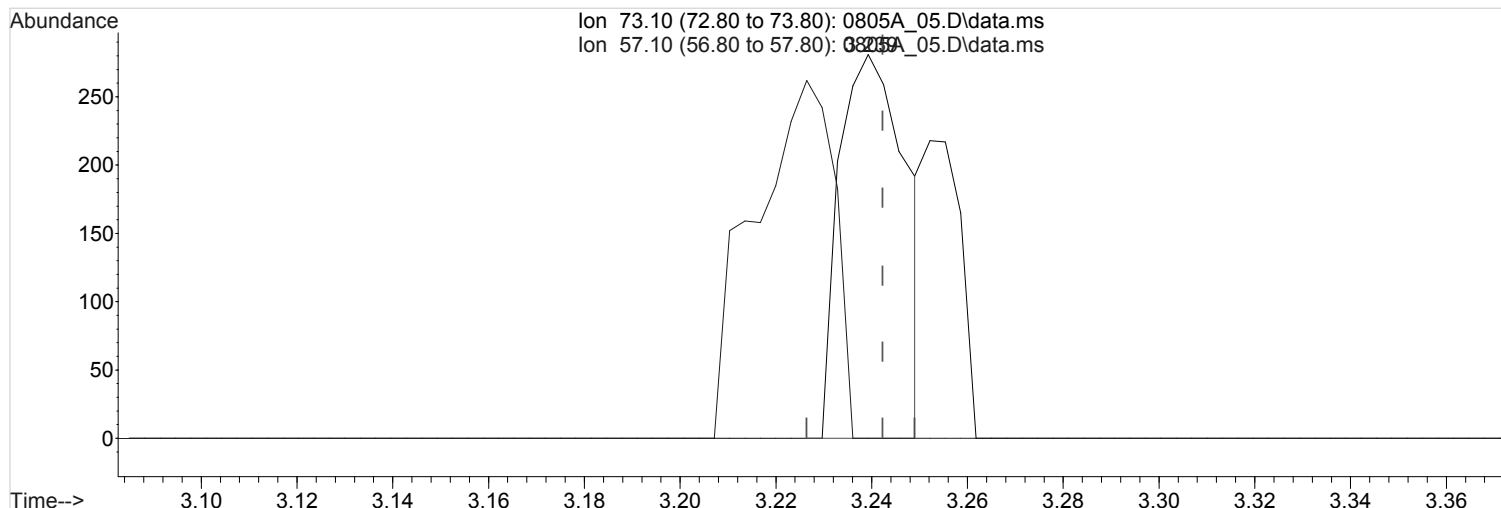
Quant Time: Aug 06 12:26:52 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:24:55 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_05.D
 Acq On : 5 Aug 2020 10:27 pm
 Operator : 3527
 Sample : STD VMS 0.04 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 5 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:25:04 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:24:55 2020
 Response via : Initial Calibration



TIC: 0805A_05.D\data.ms

(28) METHYL TERT-BUTYL ETHER (T,M)

3.239min (-0.003) 0.0184943 ppb

Qvalue = 37

response 271

Ion	Exp%	Act%
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73.10	100	100
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57.10	62.70	111.81#
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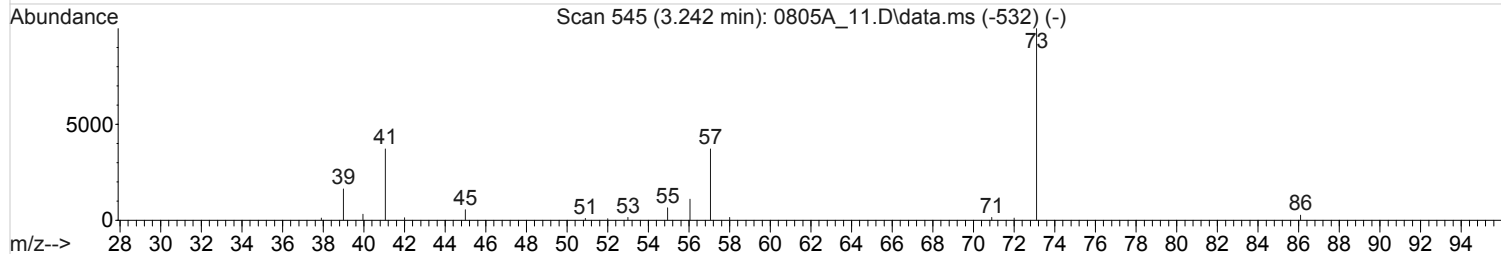
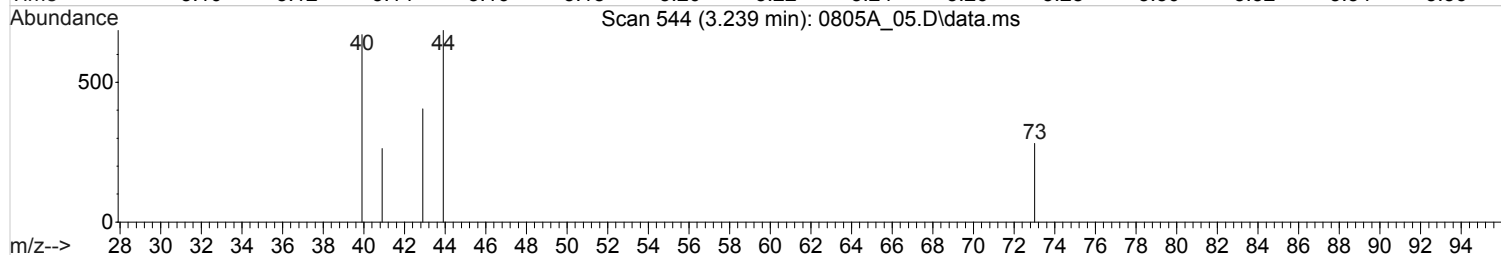
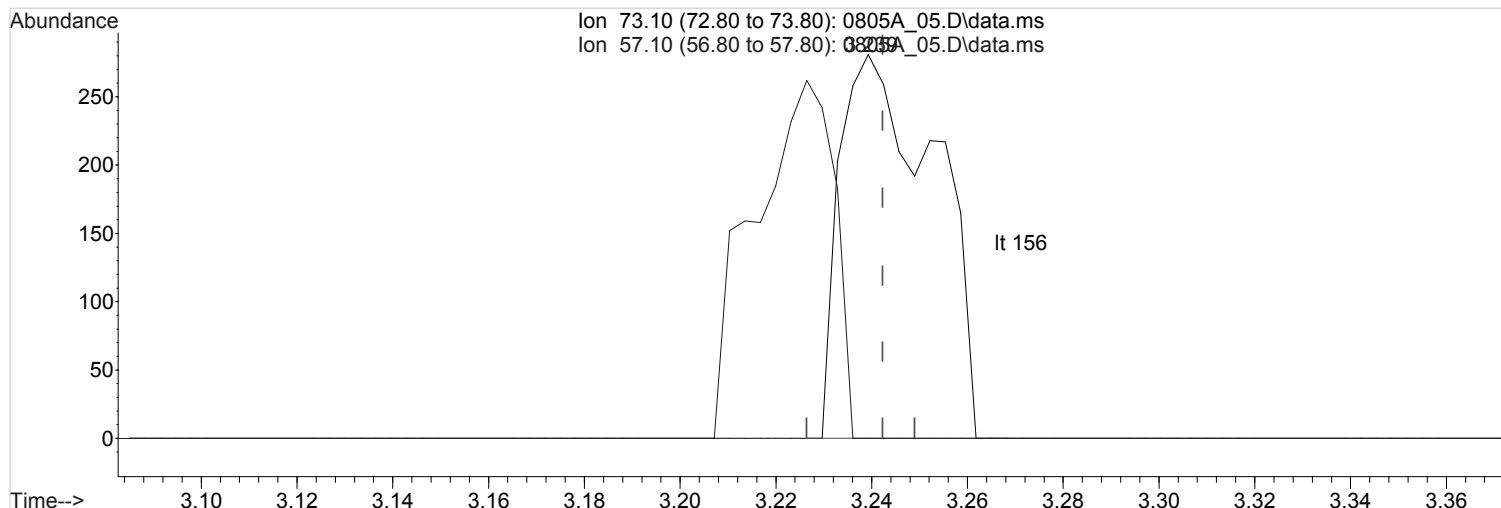
0.00	0.00	0.00
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_05.D
 Acq On : 5 Aug 2020 10:27 pm
 Operator : 3527
 Sample : STD VMS 0.04 ppb 20H05877
 Misc : water SURR/IS 20G06381
 ALS Vial : 5 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:25:04 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:24:55 2020
 Response via : Initial Calibration



TIC: 0805A_05.D\data.ms

(28) METHYL TERT-BUTYL ETHER (T,M)

3.239min (-0.003) 0.0263424 ppb m

response 386

Ion	Exp%	Act%
-----	------	------

73.10	100	100
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57.10	62.70	78.50#
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0.00	0.00	0.00
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0.00	0.00	0.00
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6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1253445
Instrument ID: VOCMS38

Analytical Method: 8260B

Analyte	RRF: 0.5	RRF: 1	RRF: 2	RRF: 5.0	RRF: 25	RRF: 75	RRF: 100	RRF: 200
Analysis date/time	08/05/20 21:37	08/05/20 21:56	08/05/20 22:15	08/05/20 22:34	08/05/20 22:54	08/05/20 23:13	08/05/20 23:33	08/05/20 23:52
DICHLORODIFLUOROMETHANE	0.29	0.33	0.3180	0.32	0.3480	0.3780	0.3550	0.4310
CHLOROMETHANE	0.3360	0.4560	0.3920	0.4170	0.48	0.4790	0.4610	0.4630
VINYL CHLORIDE	0.2740	0.3020	0.3170	0.3370	0.3730	0.3950	0.3780	0.3860
BROMOMETHANE	0.1980	0.2220	0.2110	0.2040	0.2170	0.2250	0.2160	0.2170
CHLOROETHANE	0.1940	0.20	0.1990	0.2030	0.2090	0.2150	0.2070	0.2120
TRICHLOROFLUOROMETHANE	0.3450	0.3620	0.3790	0.4040	0.4460	0.4640	0.4410	0.4570
1,1-DICHLOROETHENE	0.1790	0.1790	0.1560	0.1960	0.2040	0.2120	0.2080	0.1690
1,1,2-TRICHLOROTRIFLUOROETHANE	0.1910	0.1930	0.1790	0.2070	0.2210	0.2360	0.2260	0.1880
METHYLENE CHLORIDE	0.2860	0.2660	0.2480	0.2650	0.2570	0.2540	0.2530	0.1930
TRANS-1,2-DICHLOROETHENE	0.2230	0.2140	0.2060	0.2250	0.2360	0.2430	0.2350	0.1840
METHYL TERT-BUTYL ETHER	0.8360	0.7690	0.8140	0.8660	0.8640	0.8610	0.8430	0.7010
1,1-DICHLOROETHANE	0.5310	0.5320	0.5360	0.58	0.5850	0.5890	0.5750	0.47
DI-ISOPROPYL ETHER	1.2360	1.2390	1.2370	1.3250	1.3230	1.3530	1.2920	1.1140
2,2-DICHLOROPROPANE	0.3280	0.33	0.3330	0.3310	0.3250	0.3580	0.3160	0.2460
CIS-1,2-DICHLOROETHENE	0.2380	0.2380	0.2560	0.2640	0.2680	0.2660	0.2630	0.2170
2-BUTANONE (MEK)	0.2830	0.2870	0.2770	0.3160	0.3120	0.3090	0.2670	0.2610
CHLOROFORM	0.4720	0.47	0.5220	0.5190	0.5260	0.5270	0.5180	0.4340
1,1,1-TRICHLOROETHANE	0.4190	0.4130	0.3940	0.4350	0.4470	0.4760	0.4570	0.3720
CARBON TETRACHLORIDE	0.3650	0.36	0.32	0.38	0.3950	0.4070	0.3940	0.3220
1,1-DICHLOROPROPENE	0.3050	0.3420	0.3330	0.3540	0.3630	0.3740	0.3660	0.3020
BENZENE	1.0020	0.9830	0.9880	1.0410	1.0570	1.0740	1.0560	0.8670
1,2-DICHLOROETHANE	0.5120	0.4840	0.48	0.4980	0.5060	0.4890	0.4770	0.40
TRICHLOROETHENE	0.2290	0.2390	0.2450	0.24	0.2520	0.2530	0.2450	0.2110
1,2-DICHLOROPROPANE	0.2180	0.22	0.2210	0.2340	0.2410	0.2380	0.2320	0.2020
DIBROMOMETHANE	0.1550	0.1670	0.1750	0.1810	0.1840	0.1890	0.1760	0.1530
BROMODICHLOROMETHANE	0.3620	0.4060	0.3920	0.4050	0.4170	0.4320	0.4120	0.3710
CIS-1,3-DICHLOROPROPENE	0.4440	0.4350	0.4390	0.4530	0.4790	0.4990	0.4750	0.4320
4-METHYL-2-PENTANONE (MIBK)	1.3530	1.3030	1.2540	1.4470	1.47	1.46	1.3380	1.2430
TOLUENE	2.1740	2.1490	2.1440	2.1680	2.3080	2.3260	2.2840	1.9980
TRANS-1,3-DICHLOROPROPENE	0.8250	0.8690	0.8570	0.9330	1.0040	1.0260	0.9920	0.9270
1,1,2-TRICHLOROETHANE	0.4280	0.4930	0.4780	0.4820	0.5160	0.5270	0.5040	0.4820
TETRACHLOROETHENE	0.4020	0.4070	0.4240	0.4250	0.4480	0.4460	0.4470	0.3790
1,3-DICHLOROPROPANE	0.9110	0.8850	0.8750	0.9330	0.9660	0.9680	0.93	0.8640
CHLORODIBROMOMETHANE	0.5010	0.5310	0.5580	0.5710	0.6170	0.6320	0.6140	0.5880
1,2-DIBROMOETHANE	0.5870	0.5490	0.5330	0.5610	0.5850	0.60	0.5790	0.5320
CHLOROBENZENE	1.2570	1.3380	1.2870	1.3080	1.3720	1.38	1.3690	1.2850
1,1,1,2-TETRACHLOROETHANE	0.49	0.4810	0.4960	0.49	0.5120	0.5180	0.5130	0.4850
ETHYLBENZENE	0.7350	0.7120	0.7080	0.7330	0.7870	0.7820	0.7930	0.7330
M&P-XYLENE	0.8960	0.8860	0.8510	0.9190	0.9690	0.9610	0.9690	0.9020
O-XYLENE	0.81	0.8430	0.86	0.90	0.9470	0.9390	0.9440	0.8860
STYRENE	1.3550	1.3790	1.4040	1.46	1.6070	1.62	1.6330	1.6030
BROMOFORM	0.4240	0.4140	0.4320	0.4640	0.4980	0.5220	0.5080	0.5190
ISOPROPYLBENZENE	2.1690	2.2490	2.30	2.3930	2.52	2.49	2.5460	2.4540
BROMOBENZENE	1.7840	1.7710	1.7660	1.8130	1.8410	1.9190	1.8370	1.8010
1,1,2,2-TETRACHLOROETHANE	1.1760	1.2290	1.1920	1.2790	1.2920	1.3980	1.2890	1.3170
1,2,3-TRICHLOROPROPANE	0.4310	0.3790	0.4030	0.4250	0.4330	0.4540	0.4140	0.4060
N-PROPYLBENZENE	4.0760	4.2350	4.3070	4.3570	4.5980	4.7160	4.6750	4.5830
2-CHLOROTOLUENE	2.95	3.0150	2.97	3.0420	3.1130	3.1730	3.1380	3.0590
4-CHLOROTOLUENE	2.6050	2.7420	2.6640	2.8250	2.9410	3.0230	2.9690	2.9410
1,3,5-TRIMETHYLBENZENE	2.9090	3.12	3.0980	3.1790	3.3340	3.3740	3.3870	3.3050

ACCOUNT:

Patriot Engineering - Ft. Wayne

PROJECT:

16-1731-04E

SDG:

L1253445

DATE/TIME:

08/28/20 22:51

PAGE:

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SDG: L1253445
Instrument ID: VOCMS38

Analytical Method: 8260B

Analyte	RRF: 0.5	RRF: 1	RRF: 2	RRF: 5.0	RRF: 25	RRF: 75	RRF: 100	RRF: 200
Analysis date/time	08/05/20 21:37	08/05/20 21:56	08/05/20 22:15	08/05/20 22:34	08/05/20 22:54	08/05/20 23:13	08/05/20 23:33	08/05/20 23:52
TERT-BUTYLBENZENE	2.2260	2.2580	2.2770	2.3710	2.5250	2.4970	2.5030	2.5060
1,2,4-TRIMETHYLBENZENE	2.8990	2.9510	2.8820	2.9850	3.1370	3.1430	3.1480	3.1290
SEC-BUTYLBENZENE	2.9050	3.1840	3.2180	3.3180	3.5340	3.5240	3.5510	3.6020
1,3-DICHLOROBENZENE	1.3370	1.2470	1.2550	1.3180	1.3340	1.37	1.3950	1.4050
P-ISOPROPYLTOLUENE	2.4830	2.5950	2.6320	2.6890	2.8240	2.83	2.9230	2.9450
1,4-DICHLOROBENZENE	1.2650	1.2970	1.2180	1.2870	1.3240	1.3450	1.36	1.3760
1,2,3-TRIMETHYLBENZENE	1.9720	2.0590	1.9990	2.0820	2.1270	2.1190	2.1420	2.1830
1,2-DICHLOROBENZENE	1.1890	1.1820	1.0980	1.1360	1.1650	1.2080	1.2120	1.2510
N-BUTYLBENZENE	2.03	2.1350	2.0860	2.2230	2.3370	2.37	2.5060	2.5960
1,2-DIBROMO-3-CHLOROPROPANE	0.2470	0.2190	0.2370	0.2520	0.2460	0.2630	0.2550	0.2560
1,2,4-TRICHLOROBENZENE	0.5980	0.6960	0.5980	0.6520	0.6880	0.7440	0.8080	0.8090
HEXACHLORO-1,3-BUTADIENE	0.3020	0.2790	0.2970	0.2660	0.2990	0.3010	0.3490	0.3460
NAPHTHALENE	2.0930	2.2080	2.0810	2.3440	2.2810	2.4770	2.5850	2.6790
1,2,3-TRICHLOROBENZENE	0.6090	0.6370	0.59	0.5960	0.6110	0.6930	0.7440	0.7410
1,2-DICHLOROETHANE-D4	0.4140	0.4040	0.4020	0.4170	0.4080	0.3840	0.3830	0.3430
TOLUENE-D8	2.0520	2.0260	2.0460	2.0020	2.0480	2.0270	1.9970	2.0070
4-BROMOFLUOROBENZENE	0.8540	0.8390	0.8230	0.8260	0.8330	0.8170	0.8260	0.8320
ACETONE		0.1020	0.0940	0.0960	0.0940	0.1020	0.0750	0.0780
ACRYLONITRILE		0.1920	0.1880	0.2470	0.2330	0.18	0.21	0.1680
ACROLEIN				0.0050	0.0040	0.0040	0.0050	0.0060
File ID:	0805_10	0805_11	0805_12	0805_13	0805_14	0805_15	0805_16	0805_17



SDG:
Instrument ID:

L1253445
VOCMS38

Analytical Method:

8260B

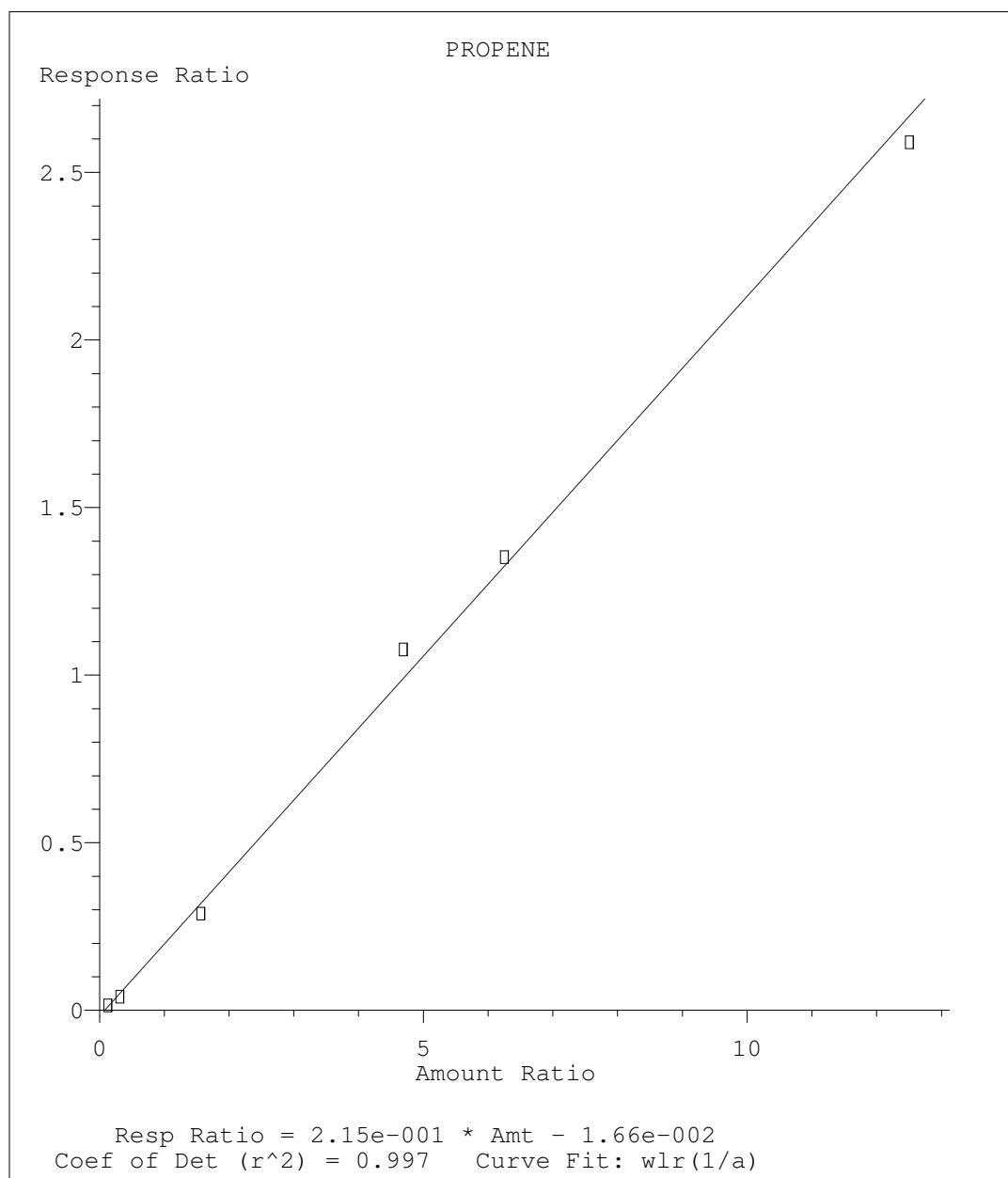
Analyte	RRF. Avg	%RSD	COD
Analysis date/time			
DICHLORODIFLUOROMETHANE	0.346334	12.58	
CHLOROMETHANE	0.435532	11.6	
VINYL CHLORIDE	0.345333	12.88	
BROMOMETHANE	0.213669	4.32	
CHLOROETHANE	0.204703	3.44	
TRICHLOROFLUOROMETHANE	0.412389	11.14	
1,1-DICHLOROETHENE	0.187844	10.66	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.205204	9.93	
METHYLENE CHLORIDE	0.25259	10.64	
TRANS-1,2-DICHLOROETHENE	0.220673	8.62	
METHYL TERT-BUTYL ETHER	0.819342	7.03	
1,1-DICHLOROETHANE	0.549701	7.42	
DI-ISOPROPYL ETHER	1.264929	6	
2,2-DICHLOROPROPANE	0.320851	10.14	
CIS-1,2-DICHLOROETHENE	0.25121	7.26	
2-BUTANONE (MEK)	0.28908	7.29	
CHLOROFORM	0.498333	7.02	
1,1,1-TRICHLOROETHANE	0.426577	7.98	
CARBON TETRACHLORIDE	0.367886	8.94	
1,1-DICHLOROPROPENE	0.342594	8	
BENZENE	1.008596	6.61	
1,2-DICHLOROETHANE	0.480726	7.27	
TRICHLOROETHENE	0.239473	5.71	
1,2-DICHLOROPROPANE	0.225958	5.7	
DIBROMOMETHANE	0.172485	7.68	
BROMODICHLOROMETHANE	0.399675	5.86	
CIS-1,3-DICHLOROPROPENE	0.45705	5.36	
4-METHYL-2-PENTANONE (MIBK)	1.358353	6.72	
TOLUENE	2.193957	4.95	
TRANS-1,3-DICHLOROPROPENE	0.929346	7.99	
1,1,2-TRICHLOROETHANE	0.488642	6.13	
TETRACHLOROETHENE	0.422084	5.92	
1,3-DICHLOROPROPANE	0.916681	4.34	
CHLORODIBROMOMETHANE	0.57657	7.88	
1,2-DIBROMOETHANE	0.565772	4.58	
CHLOROBENZENE	1.324546	3.52	
1,1,1,2-TETRACHLOROETHANE	0.498076	2.83	
ETHYLBENZENE	0.748052	4.58	
M&P-XYLENE	0.918995	4.75	
O-XYLENE	0.891196	5.69	
STYRENE	1.50779	7.94	
BROMOFORM	0.472675	9.5	
ISOPROPYLBENZENE	2.389999	5.74	
BROMOBENZENE	1.816283	2.74	
1,1,2,2-TETRACHLOROETHANE	1.271582	5.65	
1,2,3-TRICHLOROPROPANE	0.418035	5.48	
N-PROPYLBENZENE	4.443295	5.22	
2-CHLOROTOLUENE	3.05733	2.6	
4-CHLOROTOLUENE	2.838682	5.43	
1,3,5-TRIMETHYLBENZENE	3.213197	5.19	
TERT-BUTYLBENZENE	2.395236	5.31	



SDG: L1253445
Instrument ID: VOCMS38

Analytical Method: 8260B

Analyte	RRF. Avg	%RSD	COD
Analysis date/time			
1,2,4-TRIMETHYLBENZENE	3.034431	3.84	
SEC-BUTYLBENZENE	3.354511	7.23	
1,3-DICHLOROBENZENE	1.332587	4.42	
P-ISOPROPYLTOLUENE	2.739901	6.04	
1,4-DICHLOROBENZENE	1.309085	4.02	
1,2,3-TRIMETHYLBENZENE	2.085164	3.48	
1,2-DICHLOROBENZENE	1.180108	4.03	
N-BUTYLBENZENE	2.285453	8.84	
1,2-DIBROMO-3-CHLOROPROPANE	0.246916	5.63	
1,2,4-TRICHLOROBENZENE	0.699216	11.91	
HEXACHLORO-1,3-BUTADIENE	0.304915	9.58	
NAPHTHALENE	2.343499	9.43	
1,2,3-TRICHLOROBENZENE	0.652366	9.83	
1,2-DICHLOROETHANE-D4	0.394422	6.19	
TOLUENE-D8	2.025618	1.08	
4-BROMOFLUOROBENZENE	0.83123	1.37	
ACETONE	0.091562	11.84	
ACRYLONITRILE	0.202538	14.35	
ACROLEIN	0.004554	15.23	



Method Path : C:\msdchem\1\methods\
 Method File : V838H05T.M
 Title : Volatile Organics by GC/MS
 Last Update : Thu Aug 06 11:22:11 2020
 Response Via : Initial Calibration

Calibration Files

0.5 =0805_10.D 1 =0805_11.D 2 =0805_12.D 5.0 =0805_13.D 25 =0805_14.D 75 =0805_15.D 100 =0805_16.D
 200 =0805_17.D 1a =0805_24.D 5a =0805_25.D 10a =0805_26.D 15a =0805_27.D 20a =0805_28.D

Compound	0.5	1	2	5.0	25	75	100	200	1a	5a	10a	15a	20a	Avg	%RSD
1) I 8260-FLUOROBENZENE														0.000#	-1.00
2) H TPH (GC/MS) LO...														0.000#	-1.00
3) H LRH (C5-C8)														0.181#	26.02
4) T, M PROPENE				0.117	0.129	0.184	0.230	0.216	0.207					0.346	12.58
5) T, M DICHLORODIFLUO...	0.290	0.330	0.318	0.320	0.348	0.378	0.355	0.431						0.436	11.60
6) P, T, MCHLOROMETHANE	0.336	0.456	0.392	0.417	0.480	0.479	0.461	0.463						0.345	12.88#
7) C, T, M VINYL CHLORIDE	0.274	0.302	0.317	0.337	0.373	0.395	0.378	0.386						0.332	9.00
8) T, M 1,3-BUTADIENE	0.378	0.341	0.320	0.322	0.339	0.348	0.332	0.273						0.214#	4.32
9) T, M BROMOMETHANE	0.198	0.222	0.211	0.204	0.217	0.225	0.216	0.217						0.205#	3.44
10) T, M CHLOROETHANE	0.194	0.200	0.199	0.203	0.209	0.215	0.207	0.212						0.178#	8.91
11) T, M VINYL BROMIDE	0.158	0.172	0.179	0.180	0.194	0.197	0.187	0.153						0.412	11.14
12) T, M TRICHLOROFLUOR...	0.345	0.362	0.379	0.404	0.446	0.464	0.441	0.457						0.575	3.36
13) T, M DICHLOROFLUORO...	0.599	0.565	0.548	0.559	0.582	0.596	0.562	0.591						0.291#	7.80
14) M, T ETHYL ETHER	0.311	0.281	0.270	0.312	0.303	0.307	0.294	0.249						0.005#	15.23
15) T, M ACROLEIN				0.005	0.004	0.004	0.005	0.006						0.000#	-1.00
16) T ETHANOL														0.188#	10.66#
17) C, T, M1,1-DICHLOROET...	0.179	0.179	0.156	0.196	0.204	0.212	0.208	0.169						0.205#	9.93
18) M, T 1,1,2-TRICHLOR...	0.191	0.193	0.179	0.207	0.221	0.236	0.226	0.188						0.092#	11.84
19) T, M ACETONE			0.102	0.094	0.096	0.094	0.102	0.075	0.078					0.378	3.17
20) T, M IODOMETHANE	0.373	0.361	0.365	0.377	0.389	0.392	0.387							0.626	9.93
21) T, M CARBON DISULFIDE	0.624	0.615	0.582	0.632	0.665	0.696	0.687	0.504						0.131#	8.30
22) T ALLYL CHLORIDE	0.123	0.136	0.125	0.135	0.140	0.143	0.138	0.111						0.253#	10.64
23) T, M METHYLENE CHLO...	0.286	0.266	0.248	0.265	0.257	0.254	0.253	0.193						0.327	12.62
24) T METHYL ACETATE	0.313	0.322	0.333	0.385	0.364	0.349	0.293	0.254						0.203#	14.35
25) T, M ACRYLONITRILE		0.192	0.188	0.247	0.233	0.180	0.210	0.168						0.256#	10.46
26) T, M n-HEXANE	0.244	0.257	0.232	0.260	0.276	0.292	0.278	0.210						0.221#	8.62
27) T, M TRANS-1,2-DICH...	0.223	0.214	0.206	0.225	0.236	0.243	0.235	0.184						0.819	7.03
28) T, M METHYL TERT-BU...	0.836	0.769	0.814	0.866	0.864	0.861	0.843	0.701						0.000#	-1.00
29) T TERT-BUTYL ALC...														0.550	7.42
30) P, T, M1,1-DICHLOROET...	0.531	0.532	0.536	0.580	0.585	0.589	0.575	0.470						0.889	9.71
31) T, M VINYL ACETATE	0.796	0.820	0.827	0.893	0.877	1.025	0.983							1.265	6.00
32) T, M DI-ISOPROPYL E...	1.236	1.239	1.237	1.325	1.323	1.353	1.292	1.114						1.094	5.79
33) T ETHYL TERT-BUT...	1.102	1.099	1.079	1.128	1.126	1.155	1.118	0.948						0.321	10.14
34) T, M 2,2-DICHLOROPR...	0.328	0.330	0.333	0.331	0.325	0.358	0.316	0.246						0.251#	7.26
35) T, M CIS-1,2-DICHLOR...	0.238	0.238	0.256	0.264	0.268	0.266	0.263	0.217						0.289#	7.29
36) T, M 2-BUTANONE (MEK)	0.283	0.287	0.277	0.316	0.312	0.309	0.267	0.261						0.158#	9.20
37) T, M BROMOCHLOROMET...	0.151	0.150	0.160	0.180	0.167	0.160	0.163	0.130						0.198#	11.99
38) M, T TETRAHYDROFURAN	0.216	0.191	0.205	0.226	0.209	0.181	0.156							0.498	7.02#
39) C, T, MCHLOROFORM	0.472	0.470	0.522	0.519	0.526	0.527	0.518	0.434						0.325	9.27
40) T CYCLOHEXANE	0.297	0.305	0.321	0.321	0.348	0.368	0.358	0.284							

Method Path : C:\msdchem\1\methods\

Method File : V838H05T.M

Title : Volatile Organics by GC/MS

41)	T,M	1,1,1-TRICHLOR...	0.419	0.413	0.394	0.435	0.447	0.476	0.457	0.372	7.98
42)	T,M	CARBON TETRACH...	0.365	0.360	0.320	0.380	0.395	0.407	0.394	0.322	8.94
43)	T,M	1,1-DICHLOROPR...	0.305	0.342	0.333	0.354	0.363	0.374	0.366	0.302	8.00
44)	T,M	2,2,4-TRIMETHY...	0.967	0.971	0.948	1.069	1.098	1.032	0.919	1.000	6.66
45)	T,M	n-Heptane	0.175	0.177	0.167	0.189	0.202	0.212	0.210	0.159	10.69
46)	T,M	BENZENE	1.002	0.983	0.988	1.041	1.057	1.074	1.056	0.867	6.61
47)	T	TERT-AMYL METH...	0.802	0.822	0.817	0.857	0.856	0.880	0.834	0.724	5.77
48)	S	1,2-DICHLOROET...	0.414	0.404	0.402	0.417	0.408	0.384	0.383	0.343	6.19
49)	T,M	1,2-DICHLOROET...	0.512	0.484	0.480	0.498	0.506	0.489	0.477	0.400	7.27
50)	T	T-AMYL ALCOHOL	0.066	0.051	0.054	0.059	0.071	0.078	0.063	0.059	14.46
51)	T,M	TRICHLOROETHENE	0.229	0.239	0.245	0.240	0.252	0.253	0.245	0.211	5.71
52)	T,M	METHYL CYCLOHE...	0.335	0.346	0.344	0.384	0.411	0.433	0.427	0.340	11.00
53)	T,M	TERT-AMYL ETHY...	0.803	0.787	0.812	0.843	0.864	0.910	0.869	0.784	5.37
54)	C,T,M	1,2-DICHLOROPR...	0.218	0.220	0.221	0.234	0.241	0.238	0.232	0.202	5.70#
55)	T,M	DIBROMOMETHANE	0.155	0.167	0.175	0.181	0.184	0.189	0.176	0.153	7.68
56)	T,M	BROMODICHLOROM...	0.362	0.406	0.392	0.405	0.417	0.432	0.412	0.371	5.86
57)	T,M	2-CHLOROETHYL...	0.273	0.272	0.274	0.291	0.301	0.310	0.288	0.268	5.36
58)	T,M	CIS-1,3-DICHLOR...	0.444	0.435	0.439	0.453	0.479	0.499	0.475	0.432	5.36

59)	I	8260-CHLOROBENZENE-D5	-----ISTD-----								
60)	T,M	4-METHYL-2-PEN...	1.353	1.303	1.254	1.447	1.470	1.460	1.338	1.243	6.72
61)	S	TOLUENE-D8	2.052	2.026	2.046	2.002	2.048	2.027	1.997	2.007	1.08
62)	T,M	CTOLUENE	2.174	2.149	2.144	2.168	2.308	2.326	2.284	1.998	4.95#
63)	T,M	TRANS-1,3-DICH...	0.825	0.869	0.857	0.933	1.004	1.026	0.992	0.927	7.99
64)	T,M	1,1,2-TRICHLOR...	0.428	0.493	0.478	0.482	0.516	0.527	0.504	0.482	6.13
65)	T,M	TETRACHLOROETHENE	0.402	0.407	0.424	0.425	0.448	0.446	0.447	0.379	5.92
66)	T,M	1,3-DICHLOROPR...	0.911	0.885	0.875	0.933	0.966	0.968	0.930	0.864	4.34
67)	T,M	2-HEXANONE	0.527	0.471	0.451	0.539	0.565	0.575	0.524	0.527	8.11
68)	T,M	CHLORODIBROMOM...	0.501	0.531	0.558	0.571	0.617	0.632	0.614	0.588	7.88
69)	T,M	1,2-DIBROMOETHANE	0.587	0.549	0.533	0.561	0.585	0.600	0.579	0.532	4.58
70)	P,T	MCHLOROBENZENE	1.257	1.338	1.287	1.308	1.372	1.380	1.369	1.285	3.52
71)	T,M	1,1,1,2-TETRAC...	0.490	0.481	0.496	0.490	0.512	0.518	0.513	0.485	2.83
72)	C,T	METHYLBENZENE	0.735	0.712	0.708	0.733	0.787	0.782	0.793	0.733	4.58#
73)	T,M	M&P-XYLENE	0.896	0.886	0.851	0.919	0.969	0.961	0.969	0.902	4.75
74)	T,M	O-XYLENE	0.810	0.843	0.860	0.900	0.947	0.939	0.944	0.886	5.69
75)		TOTAL XYLENES									-1.00
76)		XYLENES, TOTAL									-1.00
77)	T,M	STYRENE	1.355	1.379	1.404	1.460	1.607	1.620	1.633	1.603	7.94
78)	T,P	MBROMOFORM	0.424	0.414	0.432	0.464	0.498	0.522	0.508	0.519	9.50
79)	T,M	ISOPROPYLBENZENE	2.169	2.249	2.300	2.393	2.520	2.490	2.546	2.454	5.74
80)	S	4-BROMOFLUOROB...	0.854	0.839	0.823	0.826	0.833	0.817	0.826	0.832	1.37
81)	I	8260-1,4-DICHLOROB...	-----ISTD-----								
82)	T,M	BROMOBENZENE	1.784	1.771	1.766	1.813	1.841	1.919	1.837	1.801	2.74
83)	P,T	M1,1,2,2-TETRAC...	1.176	1.229	1.192	1.279	1.292	1.398	1.289	1.317	5.65
84)	T,M	1,2,3-TRICHLOR...	0.431	0.379	0.403	0.425	0.433	0.454	0.414	0.406	5.48
85)	T,M	TRANS-1,4-DICH...		0.385	0.447	0.475	0.547	0.593	0.555	0.556	14.60
86)	T,M	N-PROPYLBENZENE	4.076	4.235	4.307	4.357	4.598	4.716	4.675	4.583	5.22
87)	T,M	4-ETHYLTOLUENE	3.262	3.656	3.614	3.757	3.896	3.922	3.929	3.829	6.02
88)	T,M	2-CHLOROTOLUENE	2.950	3.015	2.970	3.042	3.113	3.173	3.138	3.059	2.60

Method Path : C:\msdchem\1\methods\

Method File : V838H05T.M

Title : Volatile Organics by GC/MS

89)	T,M	4-CHLOROTOLUENE	2.605	2.742	2.664	2.825	2.941	3.023	2.969	2.941	2.839	5.43
90)	T,M	1,3,5-TRIMETHY...	2.909	3.120	3.098	3.179	3.334	3.374	3.387	3.305	3.213	5.19
91)	T,M	TERT-BUTYLBENZENE	2.226	2.258	2.277	2.371	2.525	2.497	2.503	2.506	2.395	5.31
92)	T,M	1,2,4-TRIMETHY...	2.899	2.951	2.882	2.985	3.137	3.143	3.148	3.129	3.034	3.84
93)	T,M	SEC-BUTYLBENZENE	2.905	3.184	3.218	3.318	3.534	3.524	3.551	3.602	3.355	7.23
94)	T,M	1,3-DICHLOROB...	1.337	1.247	1.255	1.318	1.334	1.370	1.395	1.405	1.333	4.42
95)	T,M	P-ISOPROPYLTO...	2.483	2.595	2.632	2.689	2.824	2.830	2.923	2.945	2.740	6.04
96)	T,M	DICYCLOPENTADIENE	3.501	3.550	3.674	3.757	3.917	3.872	3.959	3.827	3.757	4.50
97)	T,M	1,4-DICHLOROB...	1.265	1.297	1.218	1.287	1.324	1.345	1.360	1.376	1.309	4.02
98)	M,T	1,2,3-TRIMETHY...	1.972	2.059	1.999	2.082	2.127	2.119	2.142	2.183	2.085	3.48
99)	T,M	1,2-DICHLOROB...	1.189	1.182	1.098	1.136	1.165	1.208	1.212	1.251	1.180	4.03
100)	T,M	N-BUTYLBENZENE	2.030	2.135	2.086	2.223	2.337	2.370	2.506	2.596	2.285	8.84
101)	T,M	1,2-DIBROMO-3-...	0.247	0.219	0.237	0.252	0.246	0.263	0.255	0.256	0.247#	5.63
102)	T,M	1,3,5-TRICHLOR...	0.713	0.736	0.737	0.761	0.795	0.825	0.902	0.889	0.795	9.03
103)	T,M	1,2,4-TRICHLOR...	0.598	0.696	0.598	0.652	0.688	0.744	0.808	0.809	0.699	11.91
104)	T,M	HEXACHLORO-1,3...	0.302	0.279	0.297	0.266	0.299	0.301	0.349	0.346	0.305	9.58
105)	T,M	NAPHTHALENE	2.093	2.208	2.081	2.344	2.281	2.477	2.585	2.679	2.343	9.43
106)	T,M	1,2,3-TRICHLOR...	0.609	0.637	0.590	0.596	0.611	0.693	0.744	0.741	0.652	9.83
107)	T,M	1-METHYLNAPHTH...			0.815	0.871	0.865	1.071	1.127	1.129	0.980	14.74
108)	T,M	2-METHYLNAPHTH...	0.674	0.728	0.718	0.815	0.790	0.948	0.966	0.960	0.825	14.36

-----ISTD-----

109)	I	AP9-FLUOROBENZENE	0.201	0.186	0.196	0.197	0.200	0.196#	3.10
110)	T	BROMOETHANE						0.000#	-1.00
111)	T	2-PROPANOL	0.073	0.065	0.073	0.067	0.070	0.070#	4.69
112)	T	ACETONITRILE	0.644	0.612	0.669	0.672	0.664	0.652	3.80
113)	T	CHLOROPRENE	0.108	0.106	0.107	0.100	0.103	0.105#	2.84
114)	T	PROPIONITRILE	0.739	0.734	0.730	0.770	0.720	0.739	2.55
115)	T	ETHYL ACETATE	0.209	0.209	0.210	0.223	0.225	0.215#	3.70
116)	T	METHACRYLONITRILE							
117)		TERT-BUTYL FOR...	0.408	0.416	0.405	0.430	0.443	0.420	3.74
118)	T	ISOBUTANOL	0.032	0.035	0.042	0.040	0.039	0.037#	10.46
119)	T	N-BUTANOL	0.019	0.019	0.018	0.018	0.016	0.018#	6.41
120)	T	METHYL METHACR...	0.583	0.568	0.610	0.594	0.598	0.591	2.66
121)	T	1,4-DIOXANE	0.002	0.002	0.002	0.002	0.001	0.002#	5.51
122)	T	N-OCTANE	0.178	0.162	0.174	0.183	0.183	0.176#	4.90

-----ISTD-----

123)	I	AP9-CHLOROBENZENE-D5	0.442	0.456	0.497	0.493	0.509	0.479	6.02
124)	T	2-NITROPROPANE	0.140	0.147	0.162	0.147	0.153	0.150#	5.69
125)		3,3-DIMETHYL-1...	1.123	1.105	1.224	1.214	1.221	1.177	4.96
126)	T	ETHYL METHACRY...							

-----ISTD-----

127)	I	AP9-1,4-DICHLOROB...	0.576	0.677	0.688	0.720	0.721	0.676	8.74
128)	T	CIS-1,4-DICHLOR...	0.041	0.042	0.045	0.039	0.040	0.041#	5.41
129)	T	CYCLOHEXANONE	0.502	0.554	0.543	0.551	0.600	0.550	6.39
130)	T	PENTACHLOROETHANE							
131)	T	HEXACHLOROETHANE	0.567	0.574	0.600	0.588	0.597	0.585	2.46

(#) = Out of Range

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
 Operator : 988
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:17:14 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	394818	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.503	82	196545	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZENE...	7.976	152	123906	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.56
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.50
127) AP9-1,4-DICHLOROBENZENE...	0.000	152	0m	16.0000000	ppb	-7.98
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.410	65	163548	15.8776861	ppb	0.00
Spiked Amount 16.000			Recovery	=	99.24%	
61) TOLUENE-D8	5.484	98	403373	16.4041775	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	102.53%	
80) 4-BROMOFLUOROBENZENE	7.342	95	167857	16.5520277	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	=	103.45%	
Target Compounds						
					Qvalue	
4) PROPENE	1.748	41	996	0.3126596	ppb #	62
5) DICHLORODIFLUOROMETHANE	1.799	85	3572m	0.4518606	ppb	
6) CHLOROMETHANE	1.985	50	4144	0.4025257	ppb #	80
7) VINYL CHLORIDE	2.043	62	3382	0.4070529	ppb #	71
8) 1,3-BUTADIENE	2.021	39	4666	0.5880256	ppb #	75
9) BROMOMETHANE	2.301	94	2437m	0.4850480	ppb	
10) CHLOROETHANE	2.368	64	2396	0.4785591	ppb #	62
11) VINYL BROMIDE	2.445	106	1949m	0.4382525	ppb	
12) TRICHLOROFLUOROMETHANE	2.465	101	4261m	0.4269738	ppb	
13) DICHLOROFLUOROMETHANE	2.487	67	7390	0.5360625	ppb #	78
14) ETHYL ETHER	2.625	59	3843m	0.4986175	ppb	
16) ETHANOL	2.686	45	182	13.9619216	ppb #	56
17) 1,1-DICHLOROETHENE	2.770	96	2205	0.4564073	ppb	93
18) 1,1,2-TRICHLOROTRIFLUO...	2.805	101	2362m	0.4633236	ppb	
19) ACETONE	3.143	43	7620	3.2149096	ppb	92
20) IODOMETHANE	2.873	142	23002	2.4693716	ppb #	93
21) CARBON DISULFIDE	2.818	76	7701	0.4937252	ppb #	93
22) ALLYL CHLORIDE	3.056	76	7601	2.2738933	ppb	94
23) METHYLENE CHLORIDE	3.114	84	3528	0.5405225	ppb	88
24) METHYL ACETATE	3.198	43	19298	2.0335901	ppb #	95
25) ACRYLONITRILE	3.590	53	15737m	2.5795783	ppb	
26) n-HEXANE	3.246	56	3012	0.4690327	ppb #	71
27) TRANS-1,2-DICHLOROETHENE	3.214	96	2746	0.4940691	ppb	92
28) METHYL TERT-BUTYL ETHER	3.259	73	10319	0.4827759	ppb	93
29) TERT-BUTYL ALCOHOL	3.281	59	875	1.2291905	ppb #	100
30) 1,1-DICHLOROETHANE	3.567	63	6546	0.4575251	ppb	99
31) VINYL ACETATE	3.667	43	49119	2.2293404	ppb	99
32) DI-ISOPROPYL ETHER	3.458	45	15256	0.4667106	ppb	94
33) ETHYL TERT-BUTYL ETHER	3.654	59	13602	0.4887224	ppb	97
34) 2,2-DICHLOROPROPANE	3.921	77	4049	0.4964609	ppb #	88
35) CIS-1,2-DICHLOROETHENE	3.860	96	2936	0.4506636	ppb	95
36) 2-BUTANONE (MEK)	4.159	43	17483	2.2783992	ppb #	90
37) BROMOCHLOROMETHANE	3.979	130	1860	0.4197990	ppb #	24
38) TETRAHYDROFURAN	4.104	42	2660	0.4776200	ppb #	93
39) CHLOROFORM	3.992	83	5819	0.4541810	ppb #	93
40) CYCLOHEXANE	3.992	84	3659	0.4624676	ppb	93
41) 1,1,1-TRICHLOROETHANE	4.140	97	5170	0.4815028	ppb	96
42) CARBON TETRACHLORIDE	4.104	117	4505m	0.4647398	ppb	

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
 Operator : 988
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:17:14 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
43)	1,1-DICHLOROPROPENE	4.194	75	3767	0.4311500	ppb	#	91
44)	2,2,4-TRIMETHYLPENTANE	4.236	57	11931	0.4523705	ppb	#	87
45)	n-Heptane	4.278	71	2155	0.4613570	ppb	#	97
46)	BENZENE	4.336	78	12363	0.4811488	ppb		95
47)	TERT-AMYL METHYL ETHER	4.371	73	9900	0.4682063	ppb		97
49)	1,2-DICHLOROETHANE	4.452	62	6311	0.5134313	ppb	#	90
50)	T-AMYL ALCOHOL	4.445	59	4089m	2.7972123	ppb		
51)	TRICHLOROETHENE	4.661	132	2829	0.4768867	ppb		94
52)	METHYL CYCLOHEXANE	4.667	83	4130	0.4361232	ppb		96
53)	TERT-AMYL ETHYL ETHER	4.751	59	9913	0.4767958	ppb		95
54)	1,2-DICHLOROPROPANE	4.969	62	2694	0.4660177	ppb		99
55)	DIBROMOMETHANE	4.915	93	1908	0.4268929	ppb		96
56)	BROMODICHLOROMETHANE	4.989	83	4471	0.4472582	ppb	#	87
57)	2-CHLOROETHYL VINYL ETHER	5.294	63	16839	2.3413906	ppb		96
58)	CIS-1,3-DICHLOROPROPENE	5.371	75	5484	0.4902265	ppb	#	95
60)	4-METHYL-2-PENTANONE (...)	5.731	43	41543	2.3378666	ppb		97
62)	TOLUENE	5.519	91	13353	0.5013063	ppb		98
63)	TRANS-1,3-DICHLOROPROPENE	5.767	75	5070	0.4421519	ppb	#	95
64)	1,1,2-TRICHLOROETHANE	5.879	97	2628	0.4441846	ppb		88
65)	TETRACHLOROETHENE	5.770	164	2468	0.4731453	ppb		97
66)	1,3-DICHLOROPROPANE	6.062	76	5597	0.4883112	ppb		99
67)	2-HEXANONE	6.268	58	16184	2.4425798	ppb		95
68)	CHLORODIBROMOMETHANE	5.995	129	3076	0.4381660	ppb	#	26
69)	1,2-DIBROMOETHANE	6.178	107	3606	0.5232752	ppb		84
70)	CHLOROBENZENE	6.513	112	7722	0.4804301	ppb	#	64
71)	1,1,1,2-TETRACHLOROETHANE	6.551	133	3008	0.4994211	ppb	#	20
72)	ETHYLBENZENE	6.506	106	4515	0.5011737	ppb		98
73)	M&P-XYLENE	6.603	106	11004	0.9752019	ppb		94
74)	O-XYLENE	6.911	106	4977	0.4503251	ppb		94
77)	STYRENE	6.950	104	8325	0.4642907	ppb		98
78)	BROMOFORM	6.992	173	2606	0.4570816	ppb		97
79)	ISOPROPYLBENZENE	7.127	105	13324	0.4532684	ppb		96
82)	BROMOBENZENE	7.423	77	6906	0.4918888	ppb		94
83)	1,1,2,2-TETRACHLOROETHANE	7.451	83	4555	0.4597567	ppb		98
84)	1,2,3-TRICHLOROPROPANE	7.558	110	1667	0.5062243	ppb	#	64
85)	TRANS-1,4-DICHLORO-2-B...	7.577	53	1248	0.3390464	ppb	#	86
86)	N-PROPYLBENZENE	7.410	91	15781	0.4677550	ppb		98
87)	4-ETHYLTOLUENE	7.480	105	12629	0.4340252	ppb		94
88)	2-CHLOROTOLUENE	7.532	91	11423	0.4849085	ppb		96
89)	4-CHLOROTOLUENE	7.641	91	10087	0.4610753	ppb		99
90)	1,3,5-TRIMETHYLBENZENE	7.532	105	11265	0.4575201	ppb		97
91)	TERT-BUTYLBENZENE	7.744	119	8618	0.4693735	ppb		98
92)	1,2,4-TRIMETHYLBENZENE	7.779	105	11226	0.4833142	ppb		98
93)	SEC-BUTYLBENZENE	7.837	105	11250	0.4378929	ppb		95
94)	1,3-DICHLOROBENZENE	7.950	146	5176	0.5070383	ppb		96
95)	P-ISOPROPYLTOLUENE	7.898	119	9614	0.4616491	ppb		98
96)	DICYCLOPENTADIENE	7.905	66	13555	0.4658592	ppb		98
97)	1,4-DICHLOROBENZENE	7.982	146	4899	0.4914687	ppb	#	1
98)	1,2,3-TRIMETHYLBENZENE	7.979	105	7635	0.4735865	ppb		93
99)	1,2-DICHLOROBENZENE	8.140	146	4602	0.5231443	ppb		97
100)	N-BUTYLBENZENE	8.062	91	7862	0.4566215	ppb		92
101)	1,2-DIBROMO-3-CHLOROPR...	8.432	157	957	0.4902185	ppb		90
102)	1,3,5-TRICHLOROBENZENE	8.445	180	2760	0.4681792	ppb		95
103)	1,2,4-TRICHLOROBENZENE	8.705	180	2317	0.4586524	ppb		91
104)	HEXACHLORO-1,3-BUTADIENE	8.683	225	1170	0.5682307	ppb		90

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_10.D
Acq On : 5 Aug 2020 9:37 pm
Operator : 988
Sample : STD VMS 0.5 ppb 20H05877
Misc : water IS/SURR20G06381
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS38

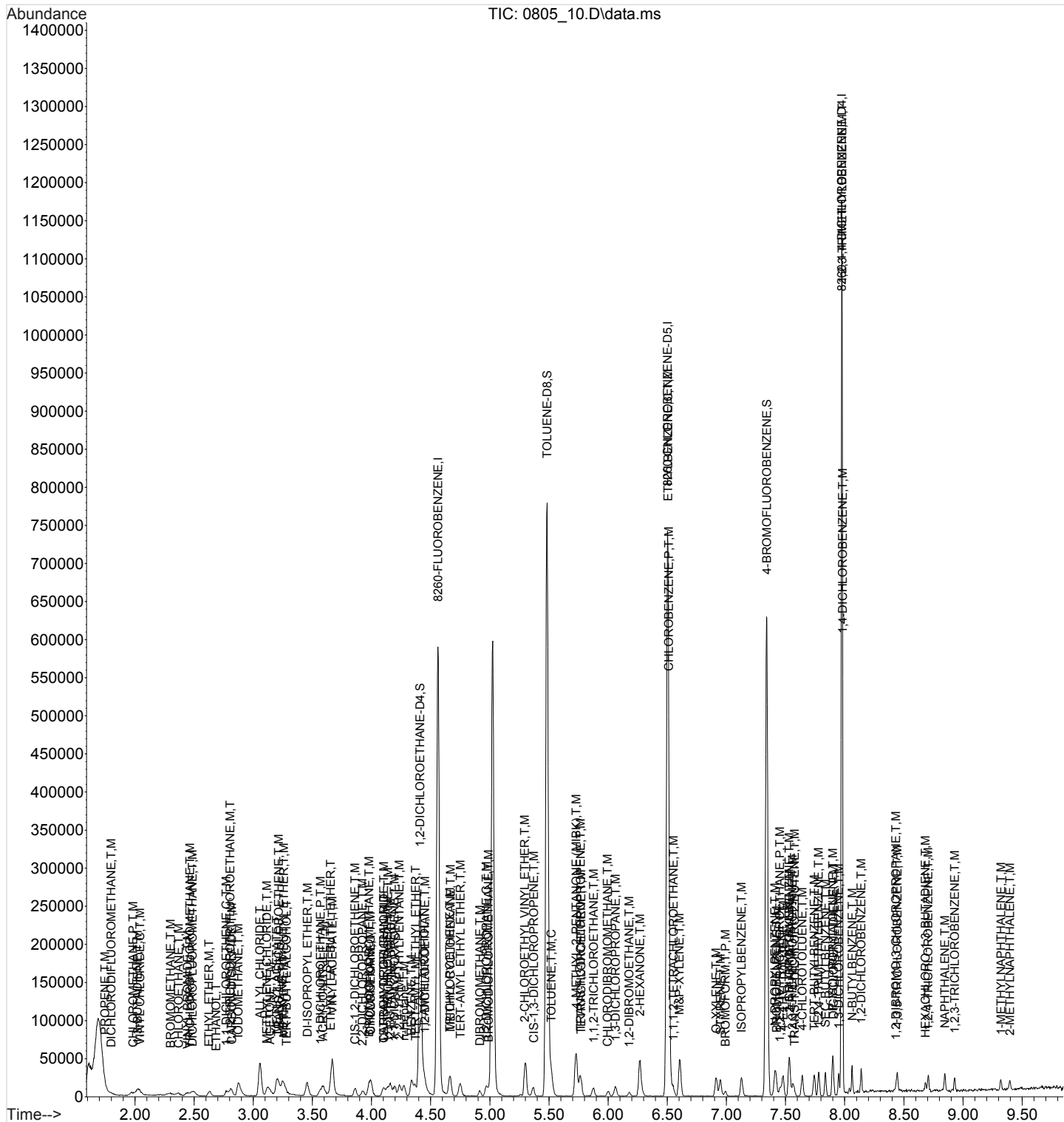
Quant Time: Aug 06 10:17:14 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 10:09:56 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
105) NAPHTHALENE	8.847	128	8106	0.4466105	ppb		96
106) 1,2,3-TRICHLOROBENZENE	8.931	180	2357	0.5109487	ppb		94
107) 1-METHYLNAPHTHALENE	9.320	142	2866	0.4247057	ppb	#	93
108) 2-METHYLNAPHTHALENE	9.397	142	2608	0.4129882	ppb		97

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

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_10.D
Acq On : 5 Aug 2020 9:37 pm
Operator : 988
Sample : STD VMS 0.5 ppb 20H05877
Misc : water IS/SURR20G06381
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS38

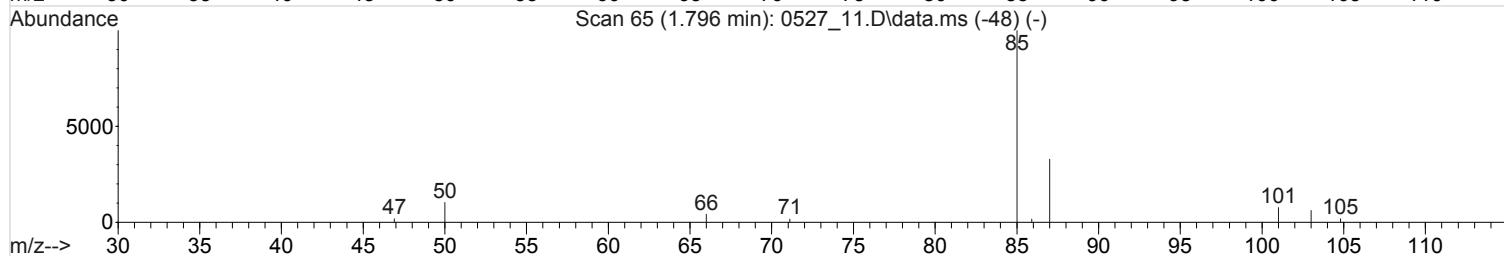
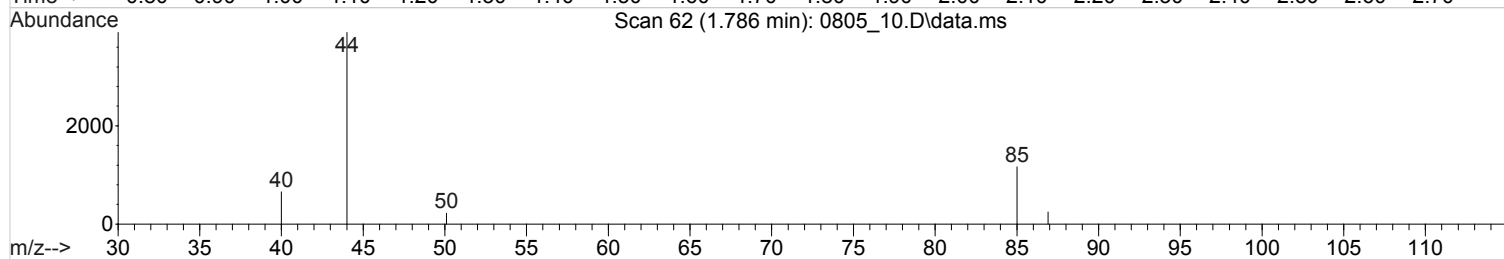
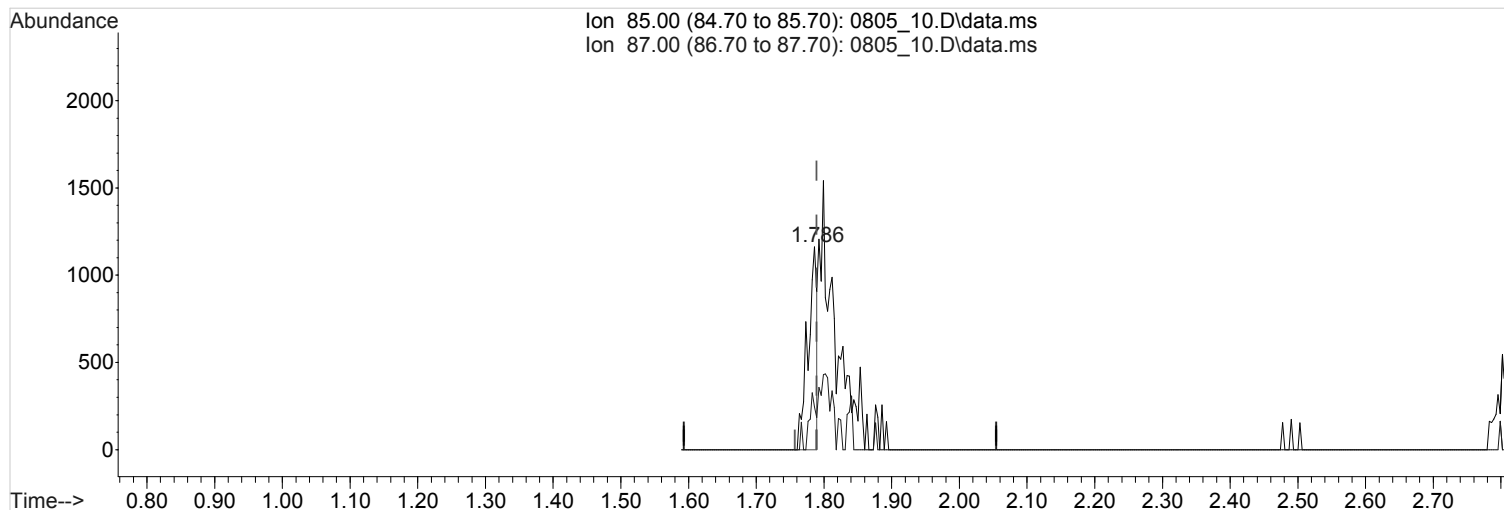
Quant Time: Aug 06 10:17:14 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 10:09:56 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
 Operator : 988
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:36 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_10.D\data.ms

(5) DICHLORODIFLUOROMETHANE (T,M)

1.786min (-0.003) 0.1352293 ppb

Qvalue = 84

response 1069

Ion	Exp%	Act%
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85.00	100	100
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87.00	13.20	19.74#
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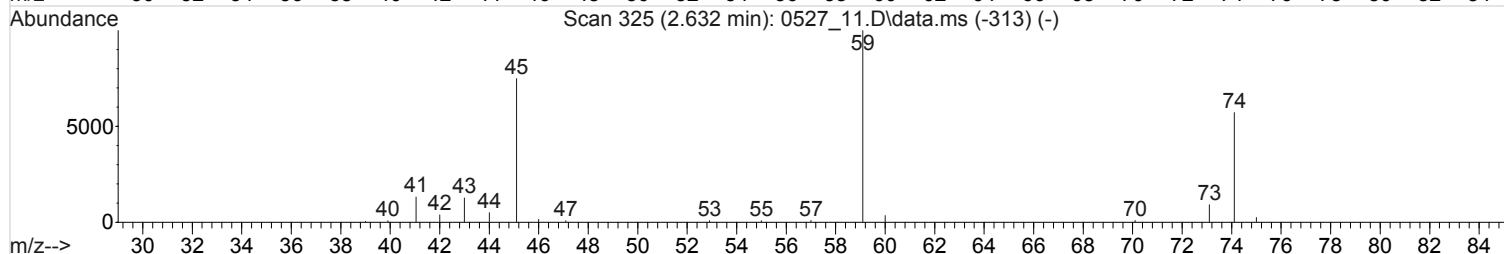
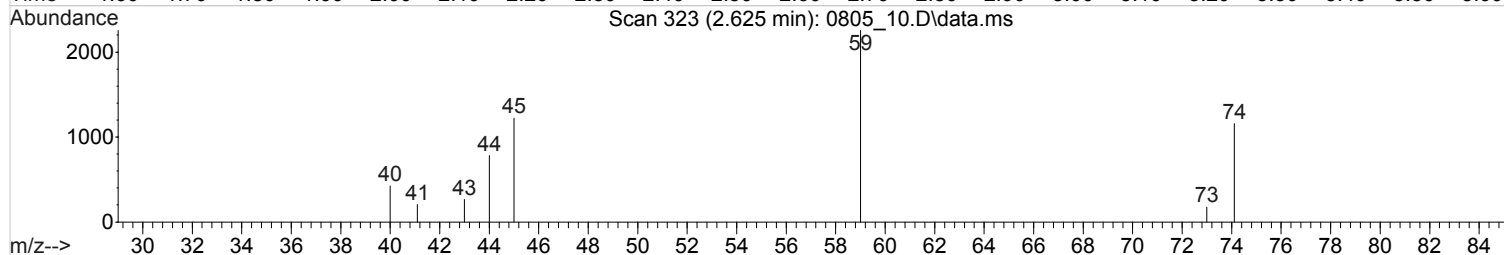
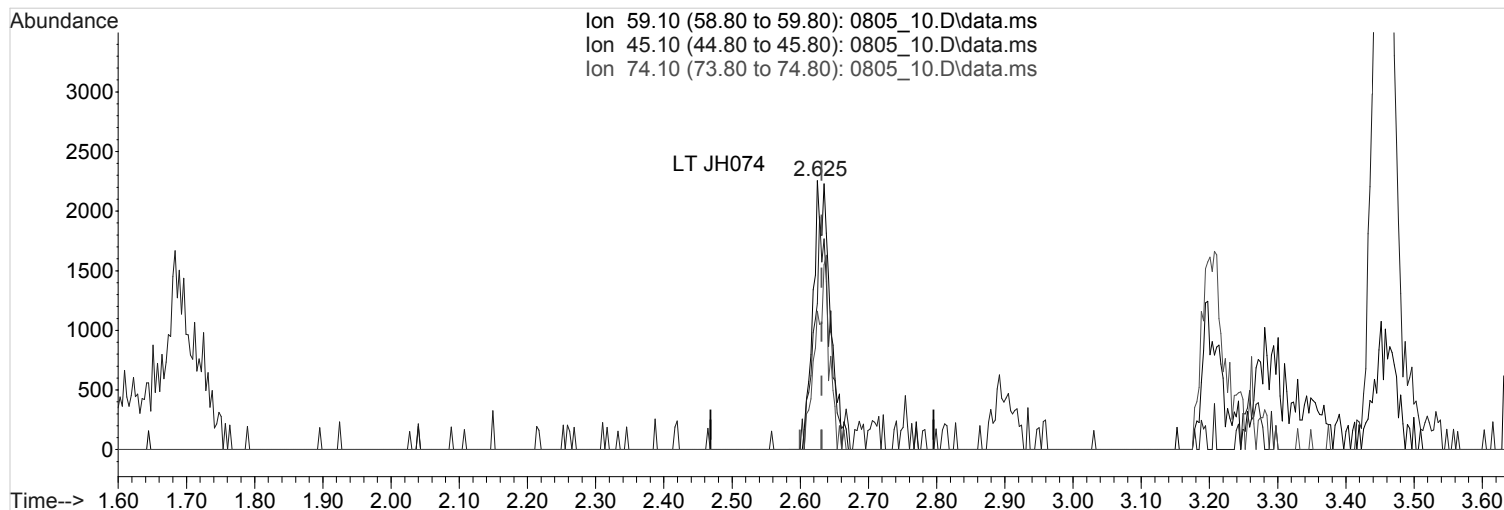
0.00	0.00	0.00
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0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
 Operator : 988
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:36 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_10.D\data.ms

(14) ETHYL ETHER (M,T)

2.625min (-0.006) 0.4986175 ppb m

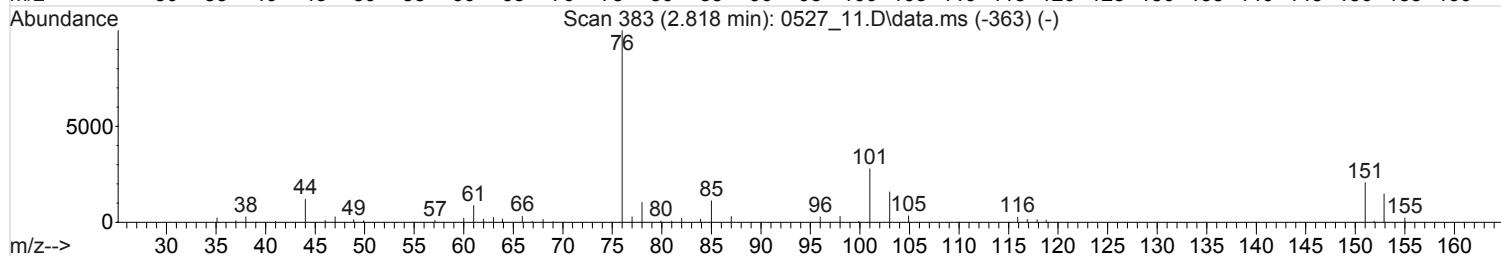
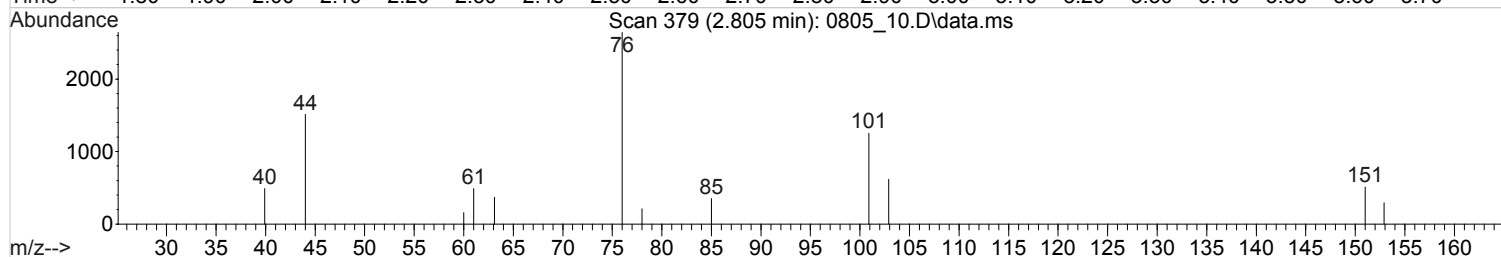
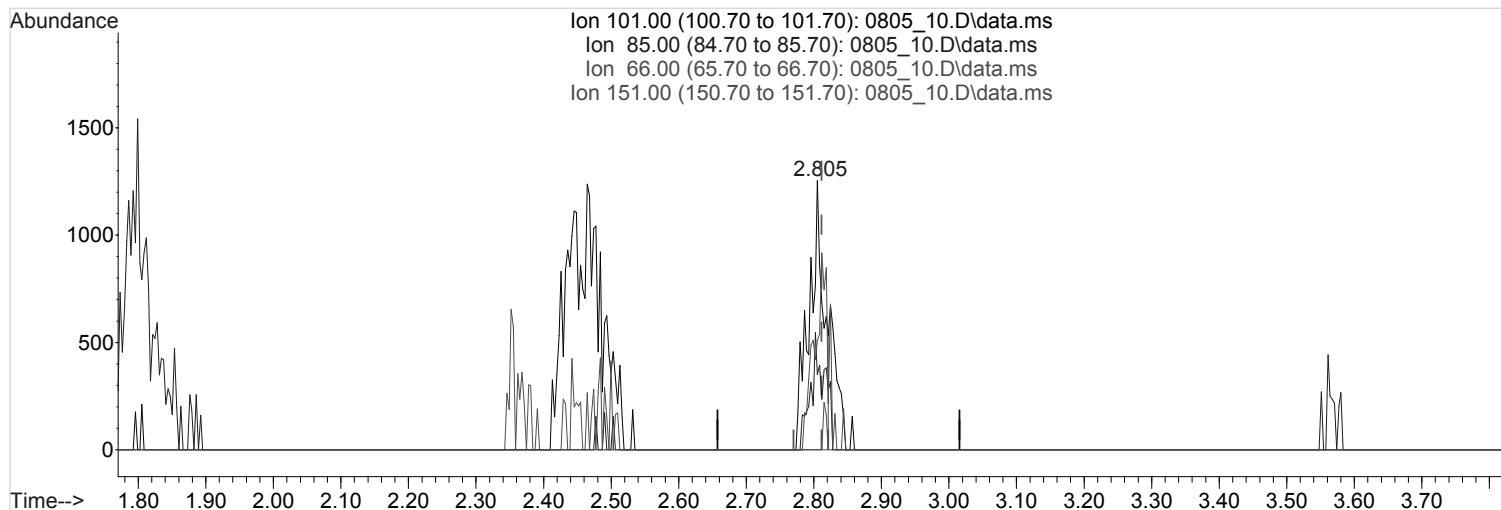
response 3843

Ion	Exp%	Act%
59.10	100	100
45.10	77.60	78.84
74.10	52.20	58.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
 Operator : 988
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:36 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_10.D\data.ms

(18) 1,1,2-TRICHLOROTRIFLUOROETHANE (M,T)

2.805min (-0.006) 0.3544563 ppb

Qvalue = 51

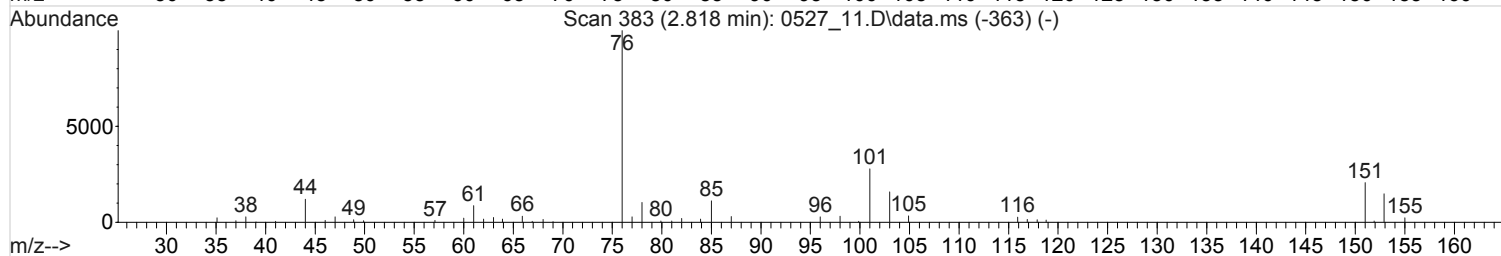
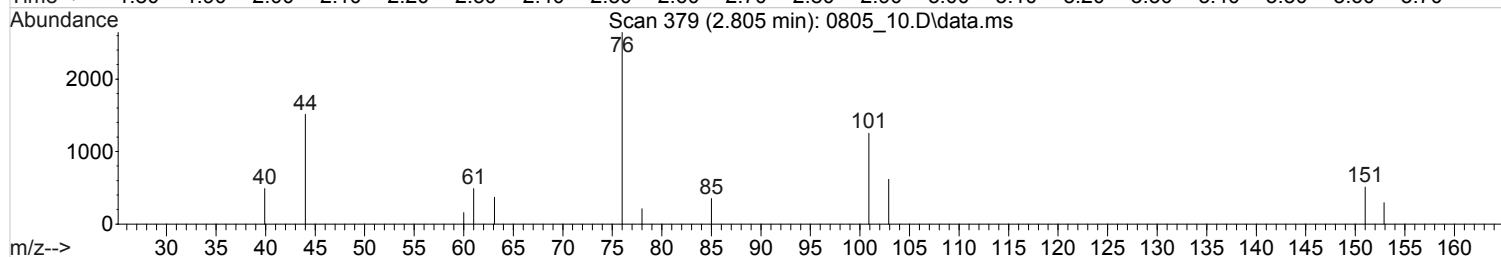
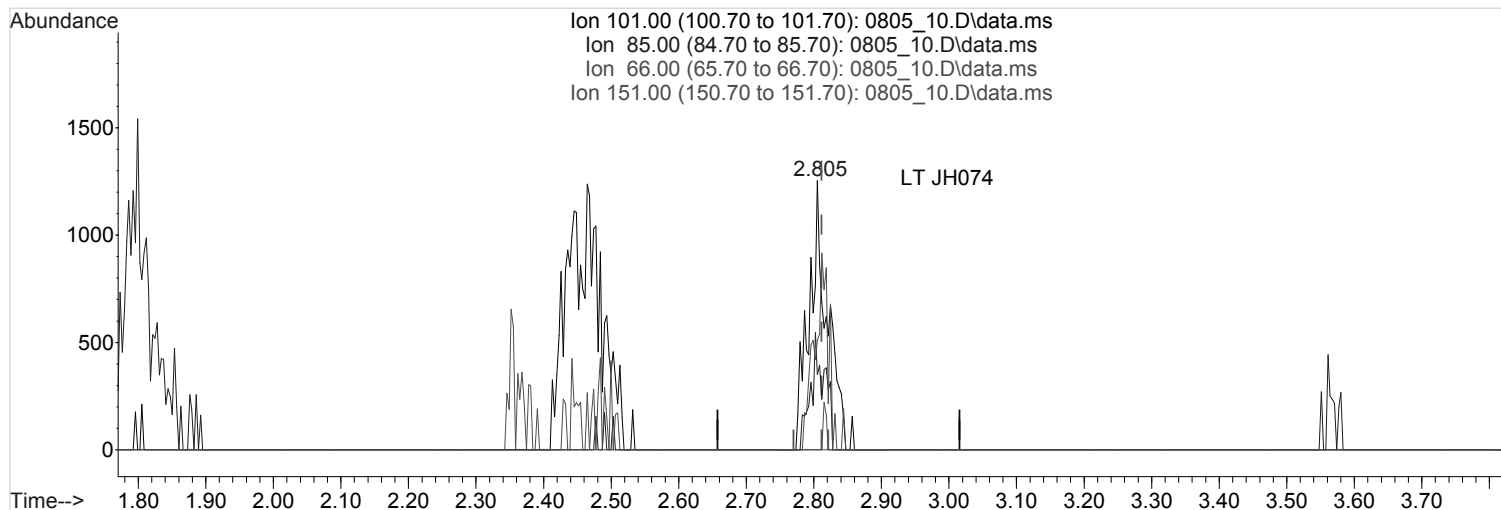
response 1807

Ion	Exp%	Act%
101.00	100	100
85.00	46.30	29.28#
66.00	13.40	0.00#
151.00	79.30	22.25#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
 Operator : 988
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:36 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_10.D\data.ms

(18) 1,1,2-TRICHLOROTRIFLUOROETHANE (M,T)

2.805min (-0.006) 0.4633236 ppb m

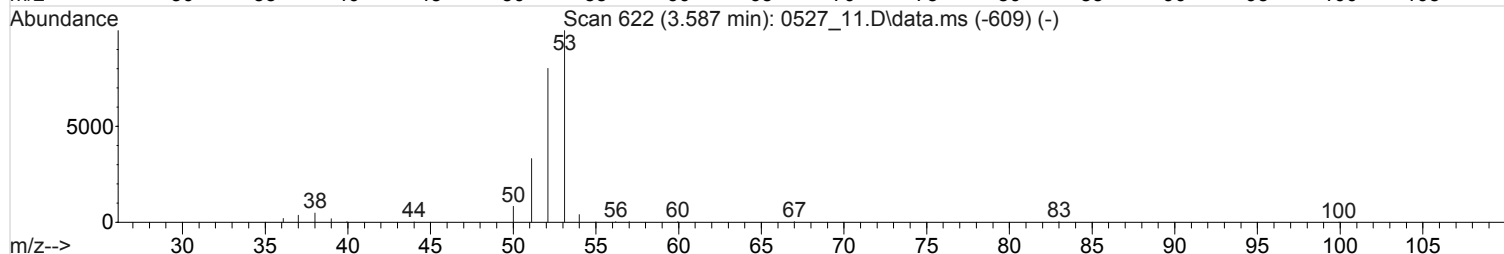
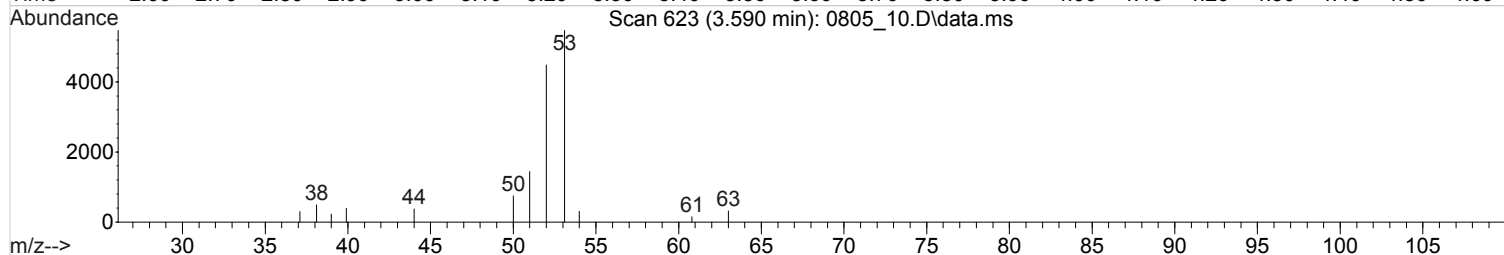
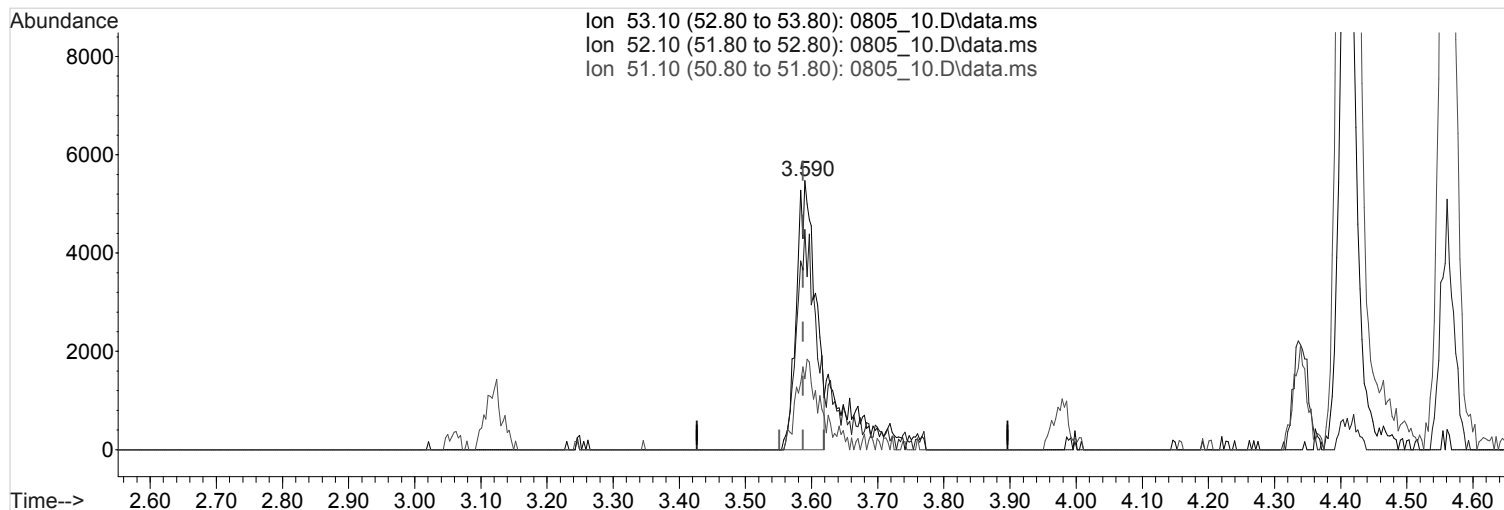
response 2362

Ion	Exp%	Act%
101.00	100	100
85.00	46.30	22.40#
66.00	13.40	0.00#
151.00	79.30	17.02#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
 Operator : 988
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:36 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_10.D\data.ms

(25) ACRYLONITRILE (T,M)

3.590min (+0.003) 1.7719541 ppb

Qvalue = 92

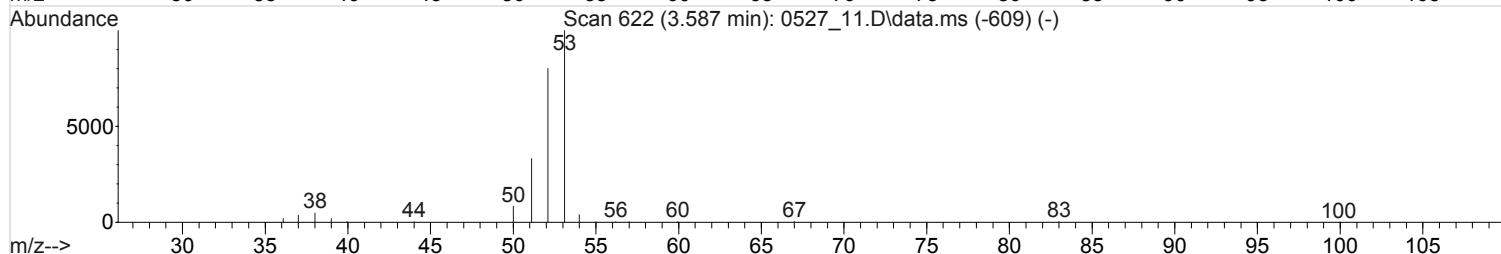
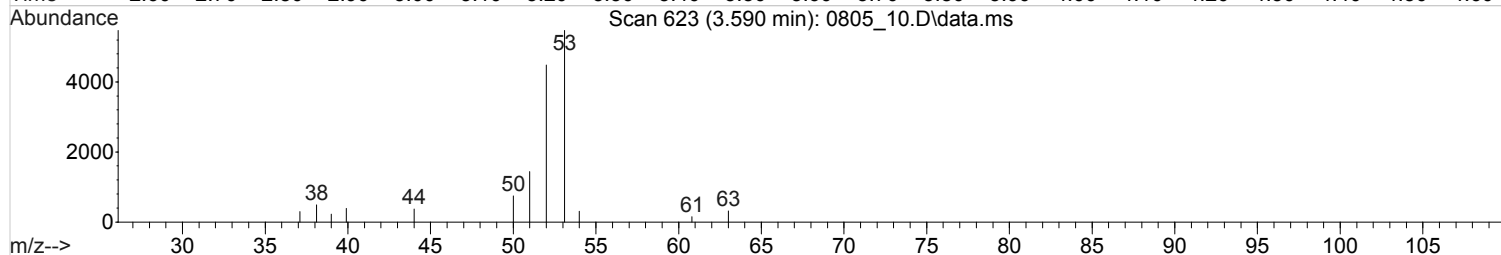
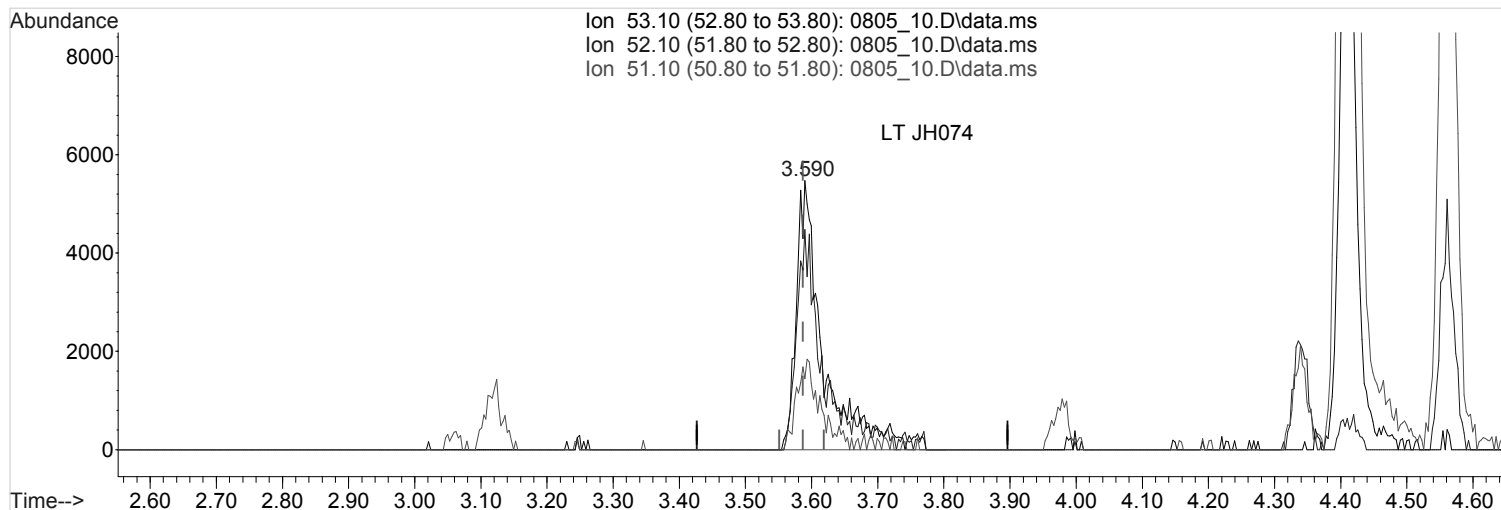
response 10810

Ion	Exp%	Act%
53.10	100	100
52.10	74.30	81.99
51.10	32.00	35.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
 Operator : 988
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:36 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_10.D\data.ms

(25) ACRYLONITRILE (T,M)

3.590min (+0.003) 2.5795783 ppb m

response 15737

Ion	Exp%	Act%
-----	------	------

53.10	100	100
-------	-----	-----

52.10	74.30	56.32#
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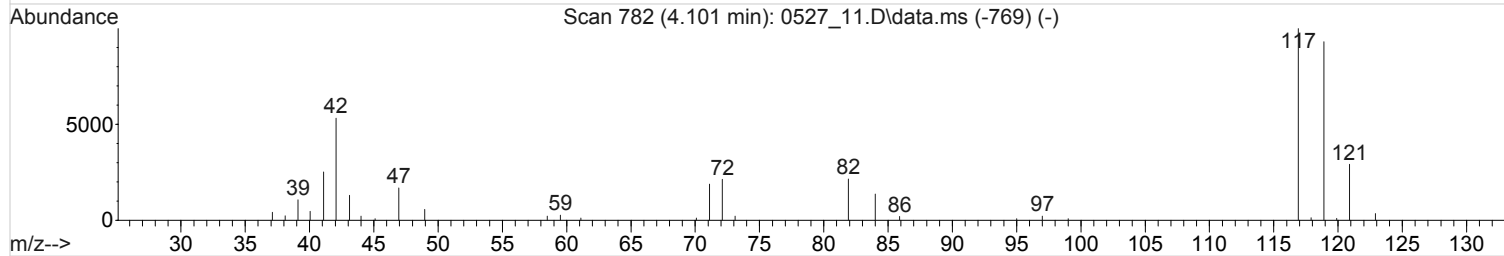
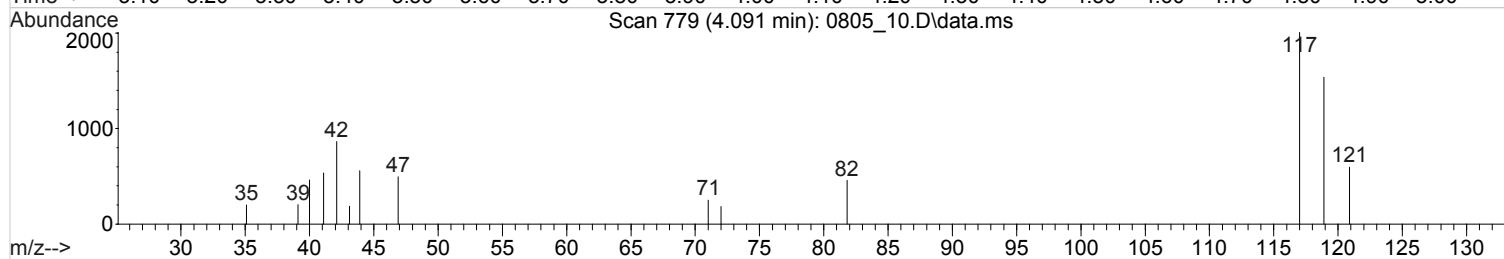
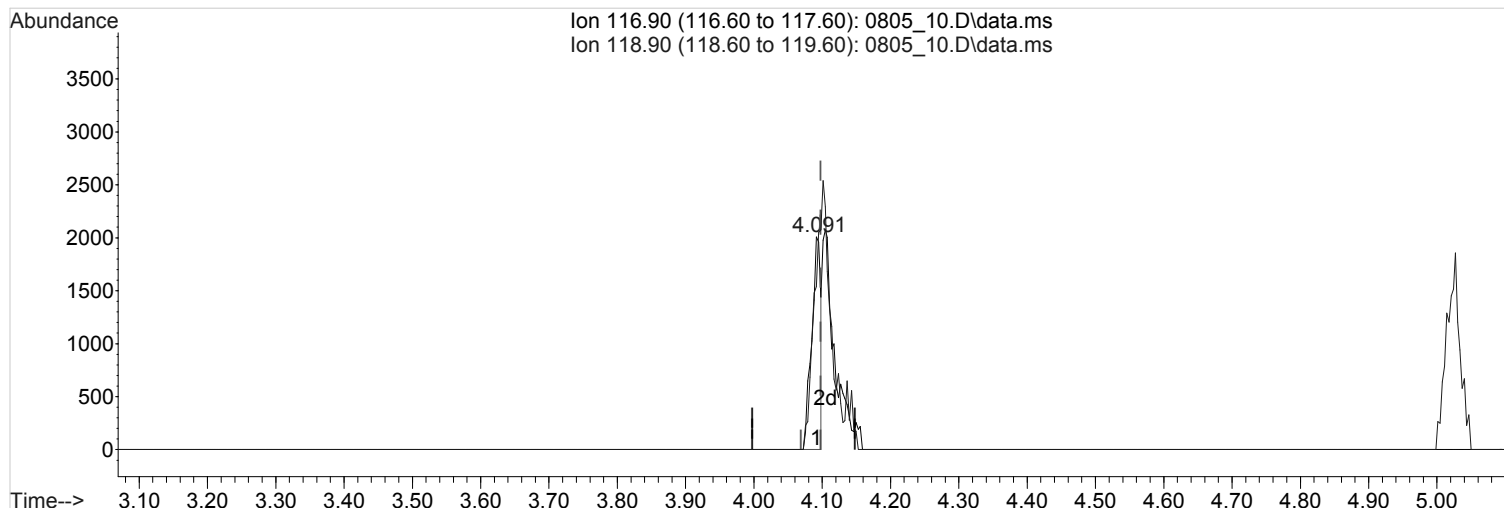
51.10	32.00	24.52#
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0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
 Operator : 988
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:36 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_10.D\data.ms

(42) CARBON TETRACHLORIDE (T,M)

4.091min (-0.006) 0.1885781 ppb

Qvalue = 2

response 1828

Ion	Exp%	Act%
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116.90	100	100
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118.90	95.20	0.00#
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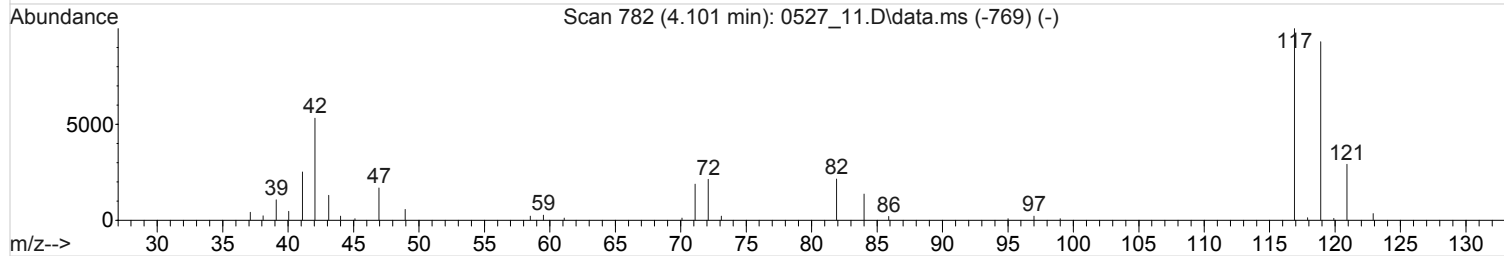
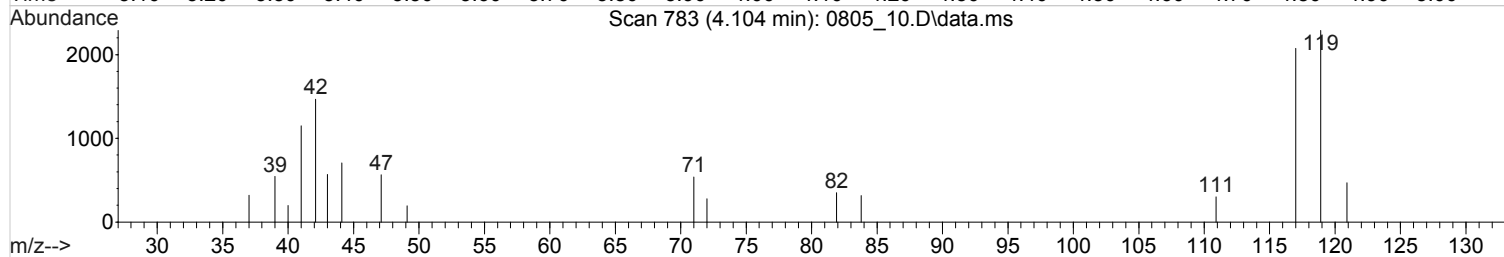
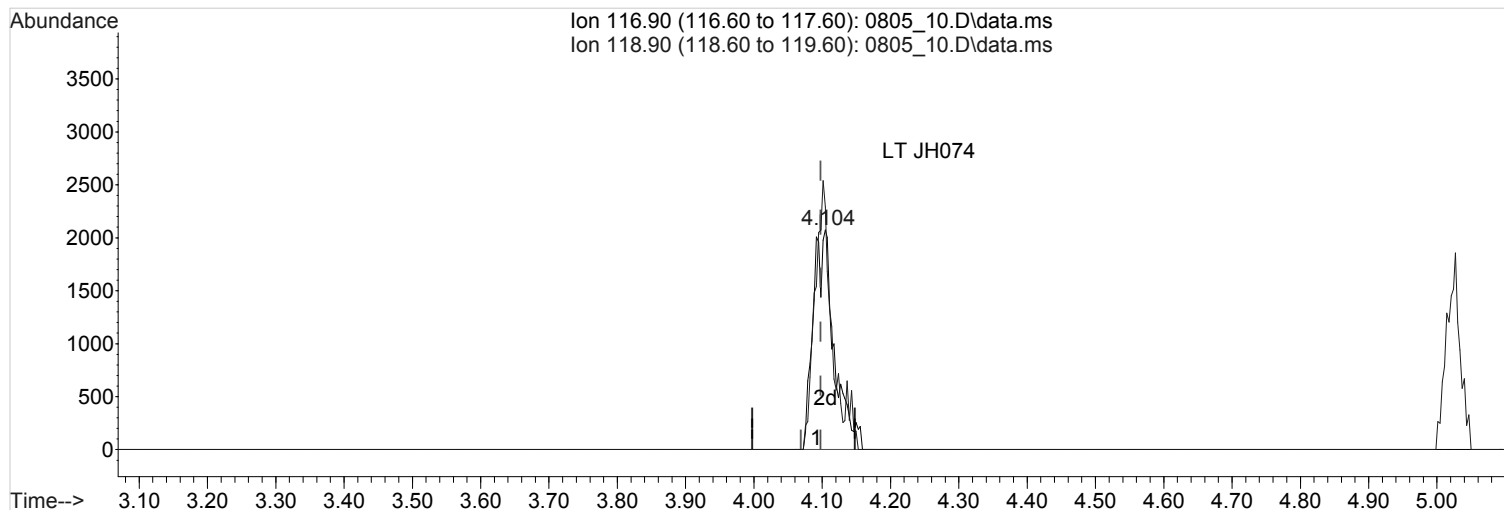
0.00	0.00	0.00
------	------	------

0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
 Operator : 988
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:36 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



(42) CARBON TETRACHLORIDE (T,M)

4.104min (+0.006) 0.4647398 ppb m

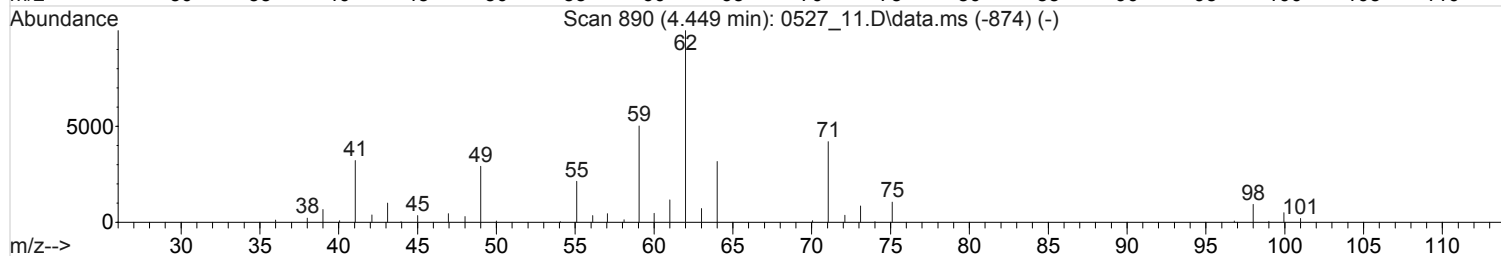
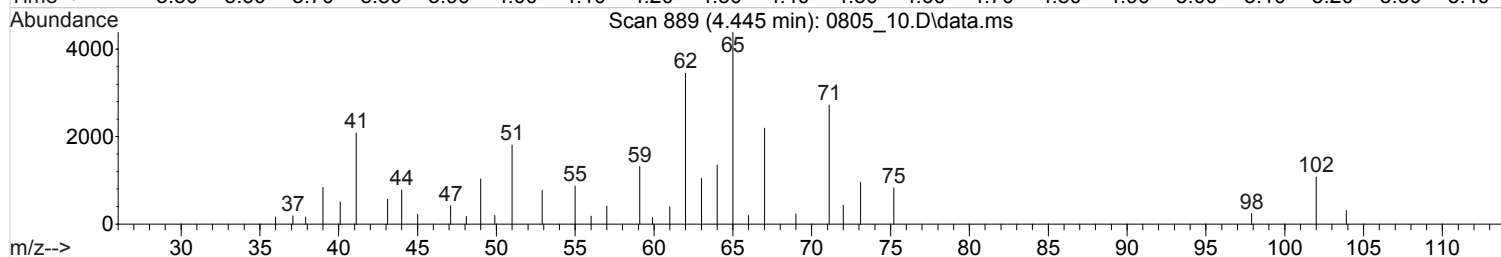
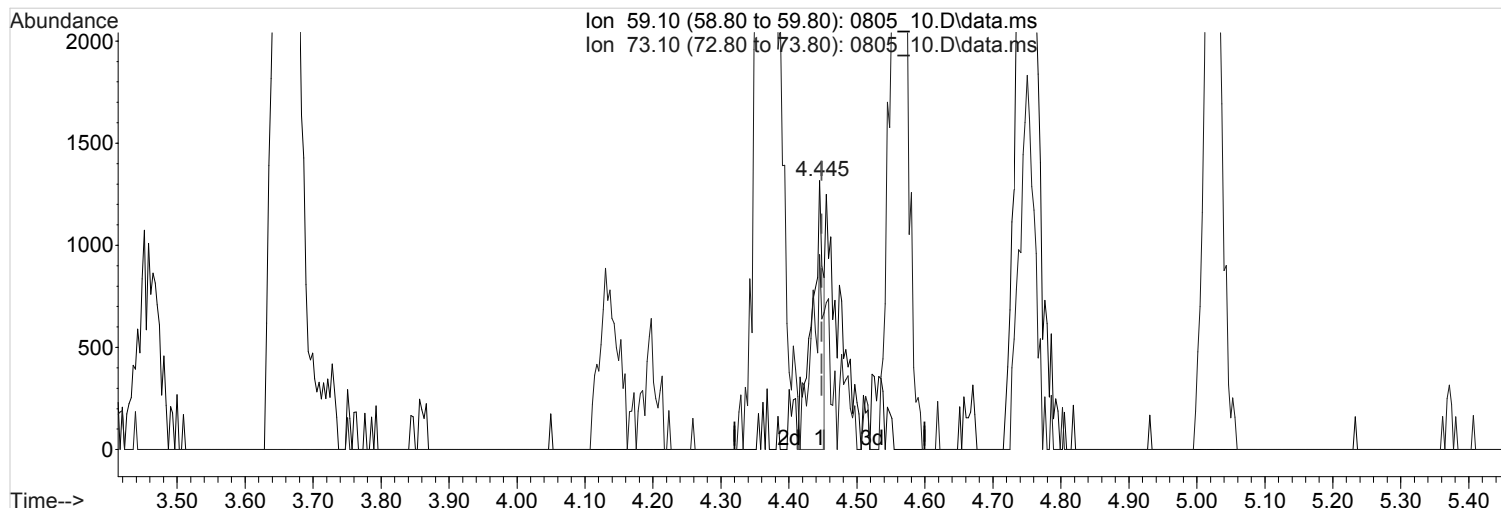
response 4505

Ion	Exp%	Act%
116.90	100	100
118.90	95.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
 Operator : 988
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:36 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_10.D\data.ms

(50) T-AMYL ALCOHOL (T)

4.445min (-0.003) 1.0370687 ppb

Qvalue = 26

response 1516

Ion	Exp%	Act%
-----	------	------

59.10	100	100
-------	-----	-----

73.10	22.30	57.85#
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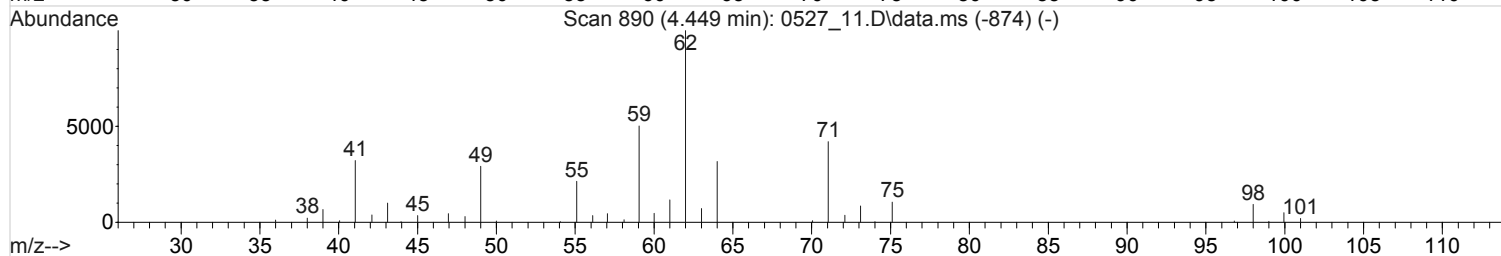
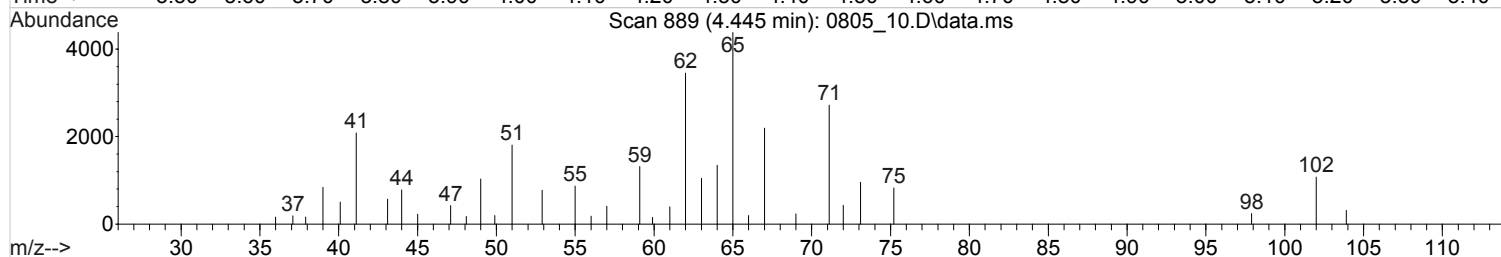
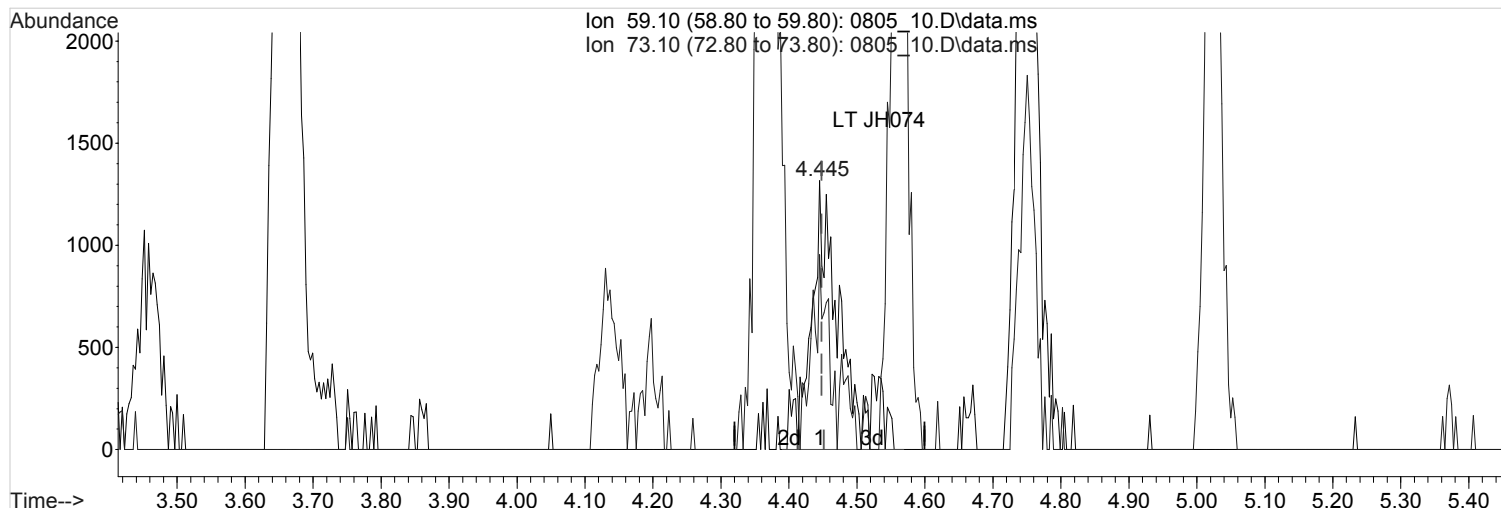
0.00	0.00	0.00
------	------	------

0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
 Operator : 988
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:36 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_10.D\data.ms

(50) T-AMYL ALCOHOL (T)

4.445min (-0.003) 2.7972123 ppb m

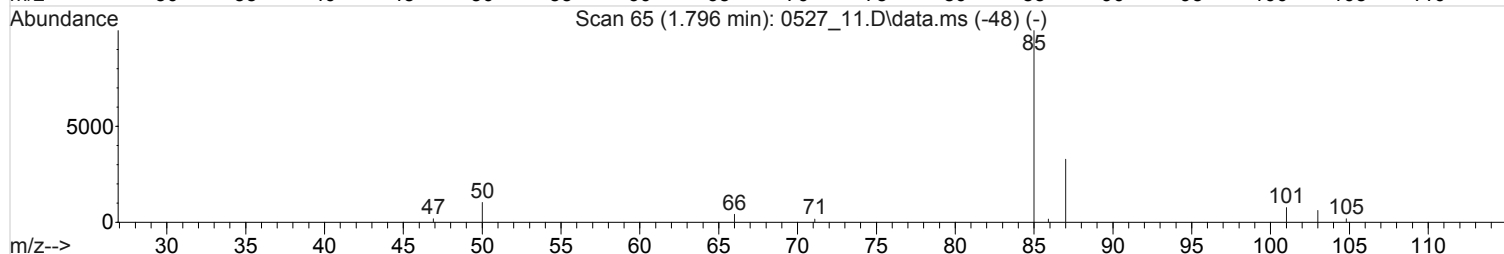
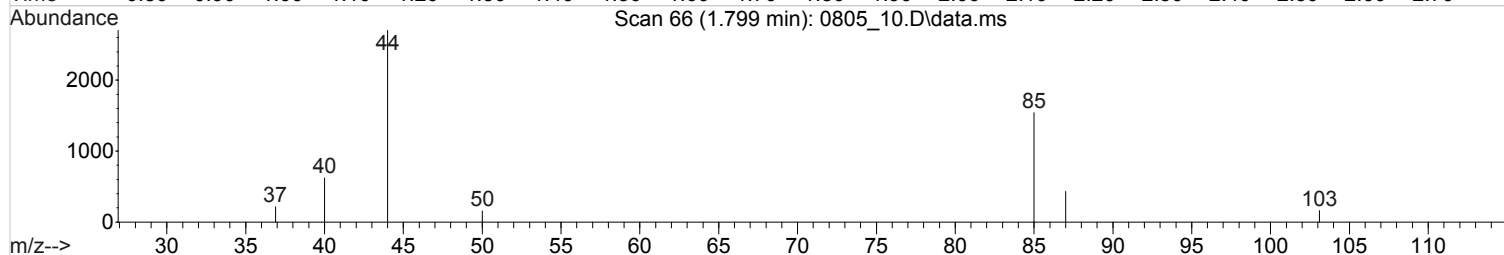
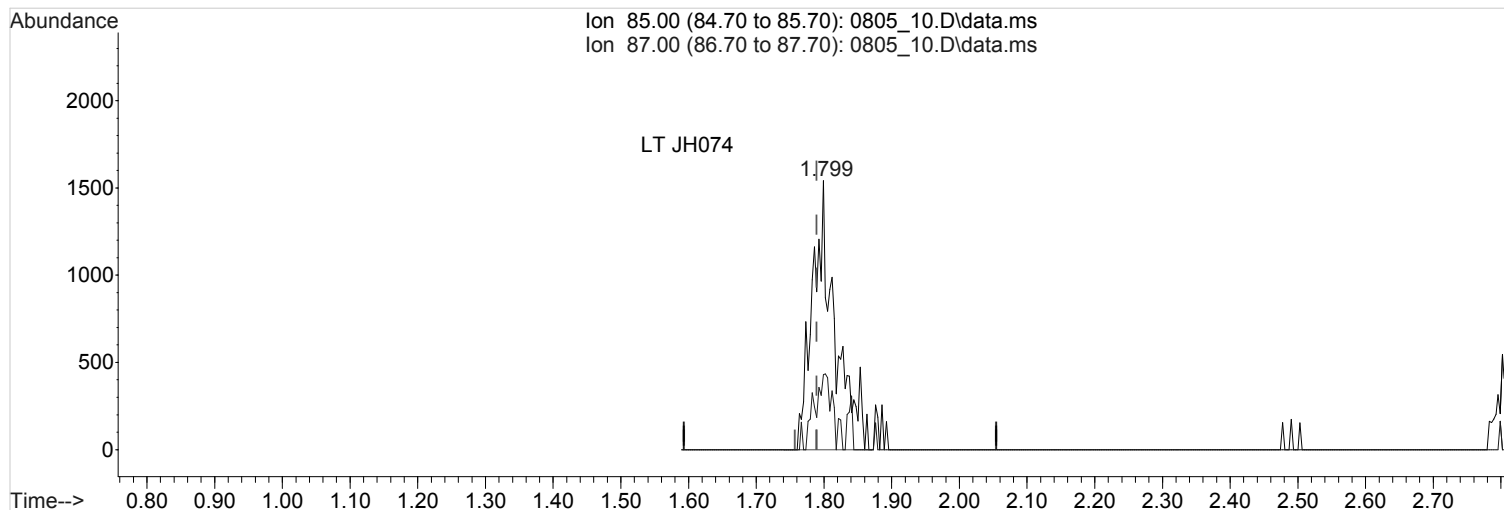
response 4089

Ion	Exp%	Act%
59.10	100	100
73.10	22.30	21.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
 Operator : 988
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:36 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_10.D\data.ms

(5) DICHLORODIFLUOROMETHANE (T,M)

1.799min (+0.010) 0.4518606 ppb m

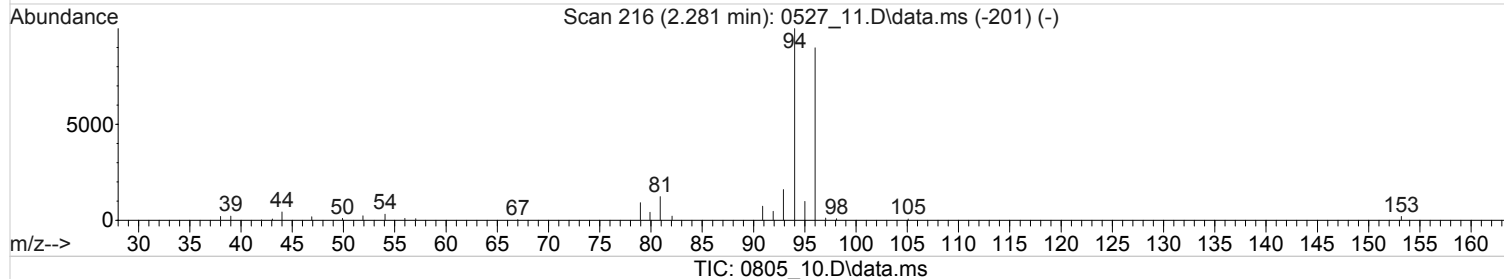
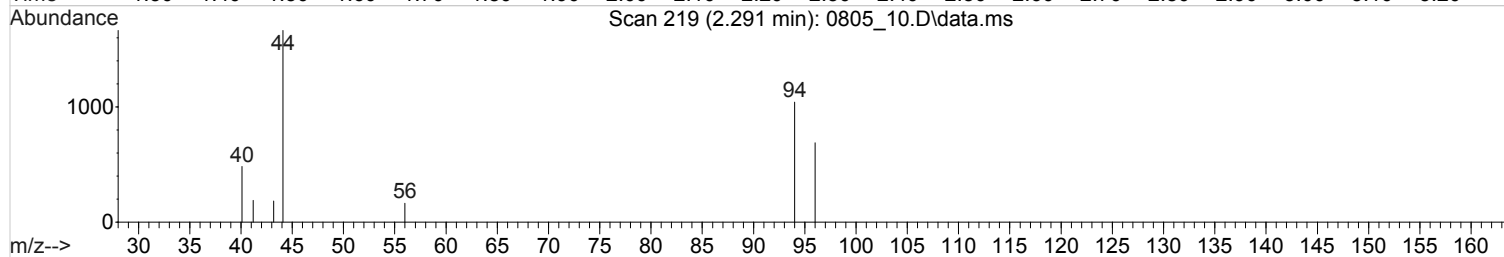
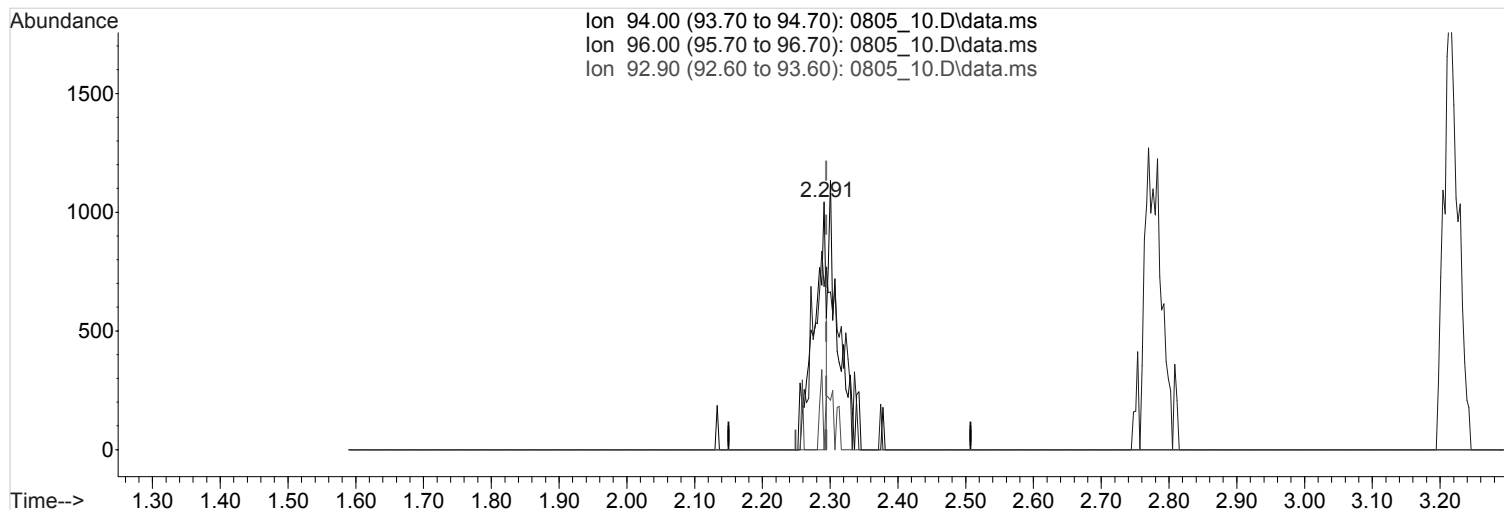
response 3572

Ion	Exp%	Act%
85.00	100	100
87.00	13.20	5.91#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
 Operator : 988
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:36 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



(9) BROMOMETHANE (T,M)

2.291min (-0.003) 0.2487936 ppb

Qvalue = 18

response 1250

Ion	Exp%	Act%
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94.00	100	100
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96.00	92.90	178.32#
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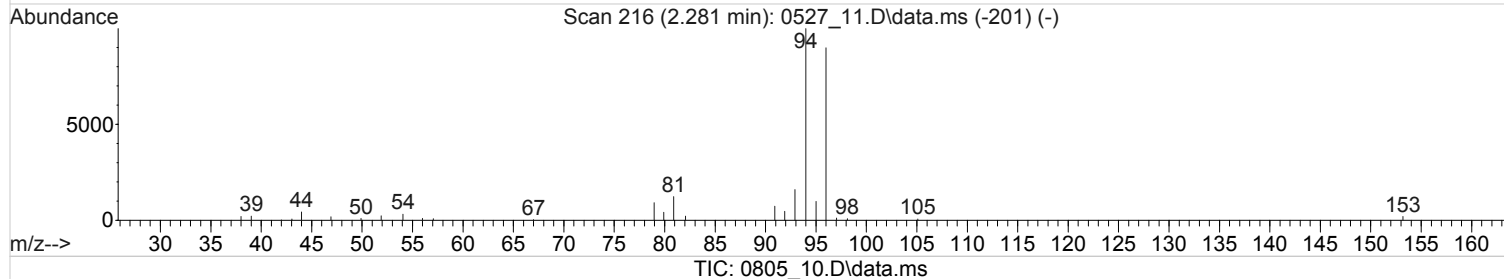
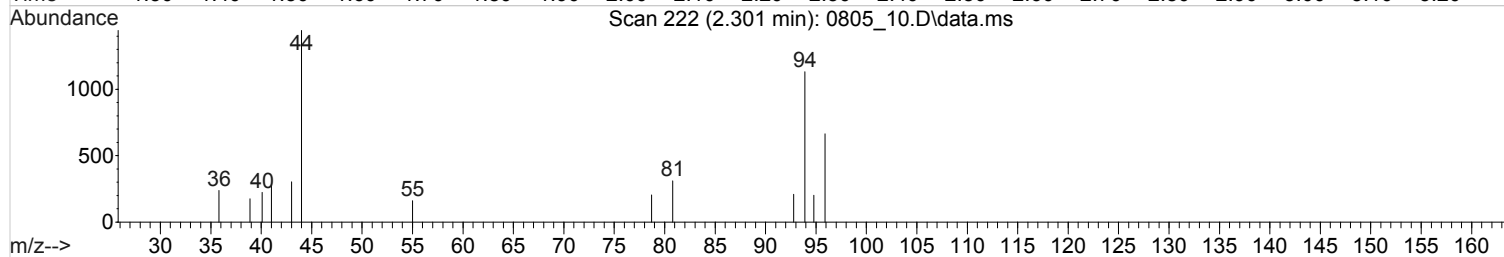
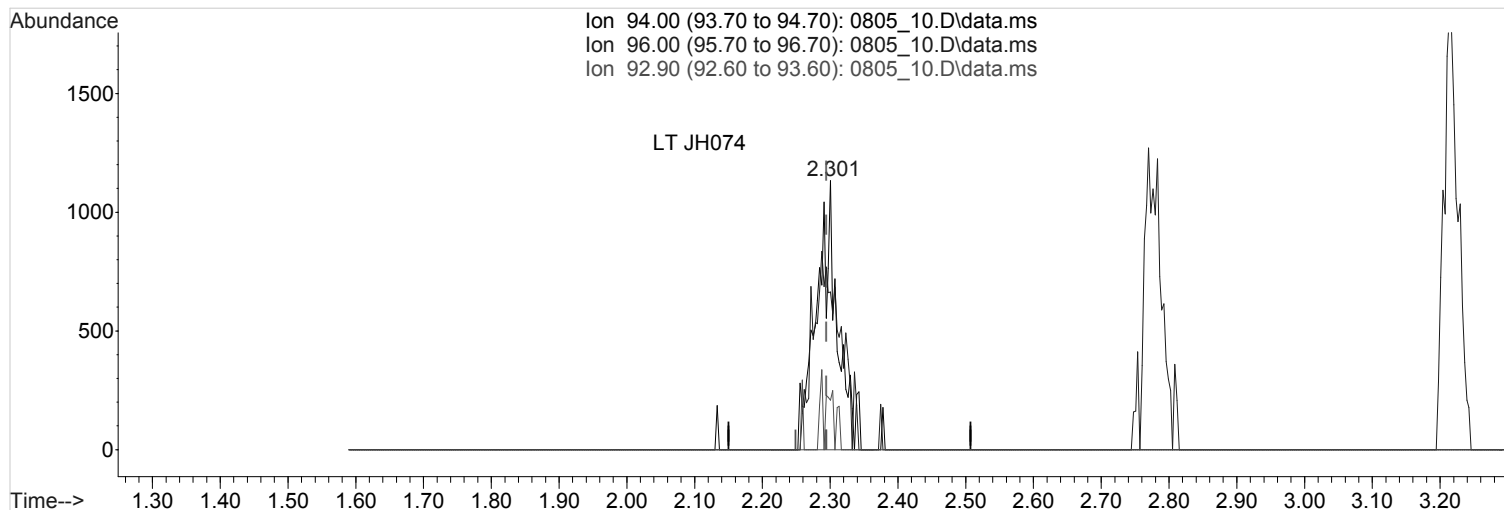
92.90	9.10	14.00#
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0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
 Operator : 988
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:36 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



(9) BROMOMETHANE (T,M)

2.301min (+0.006) 0.4850480 ppb m

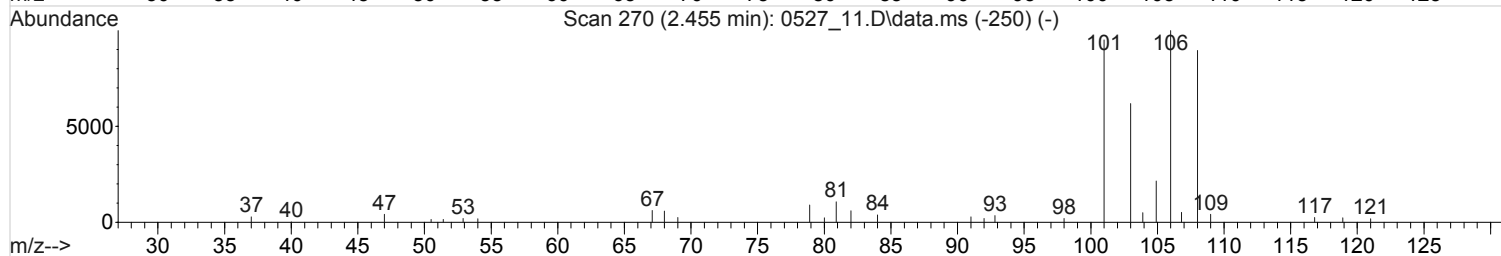
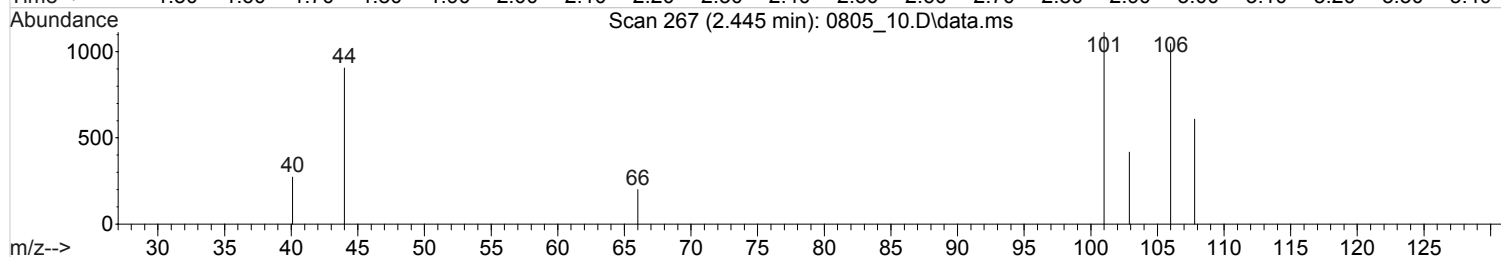
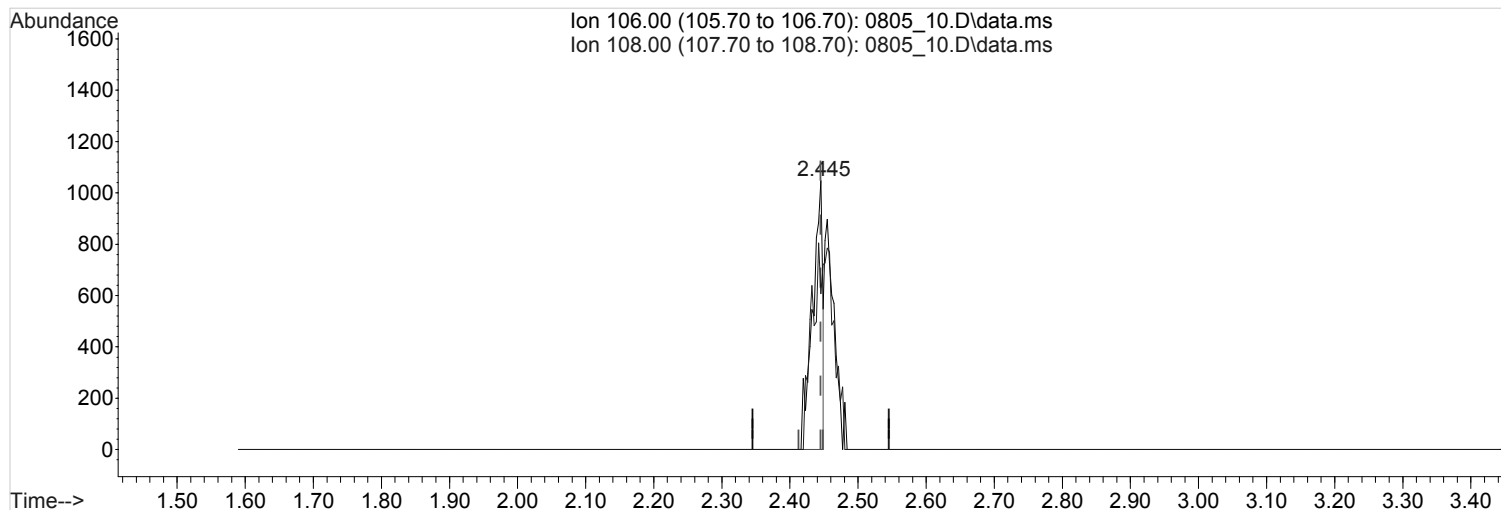
response 2437

Ion	Exp%	Act%
94.00	100	100
96.00	92.90	91.46
92.90	9.10	7.18#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
 Operator : 988
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:36 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_10.D\data.ms

(11) VINYL BROMIDE (T,M)

2.445min (0.000) 0.2388015 ppb

Qvalue = 71

response 1062

Ion	Exp%	Act%
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106.00	100	100
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108.00	97.20	125.99#
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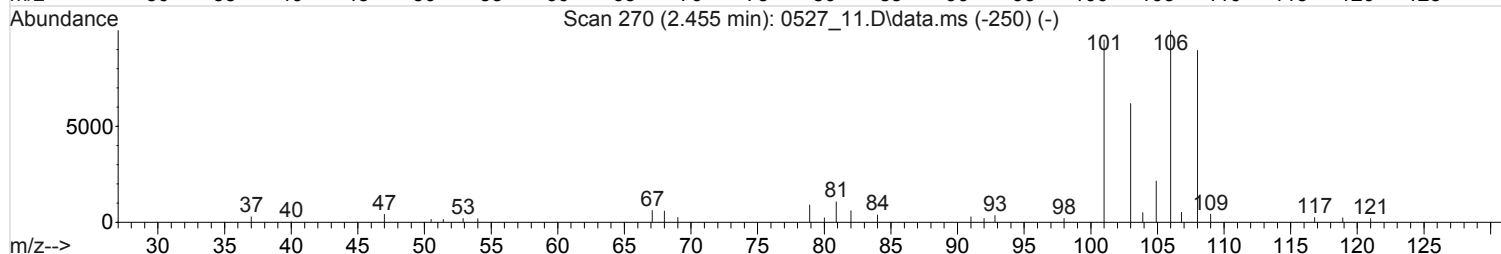
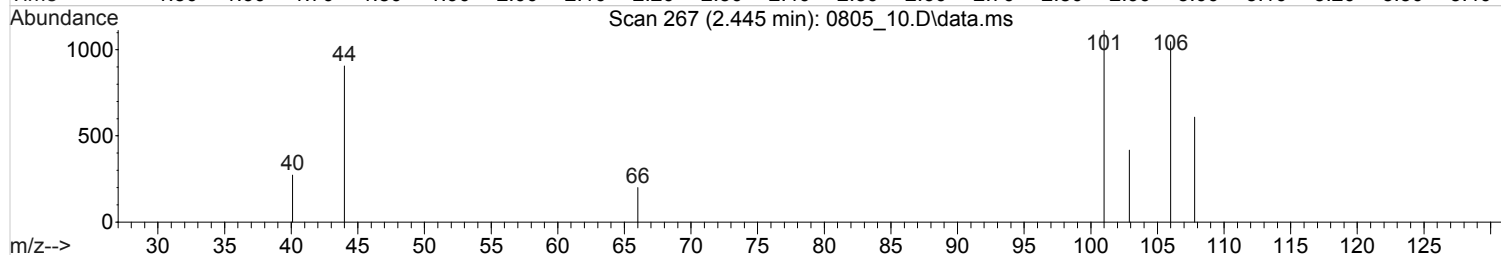
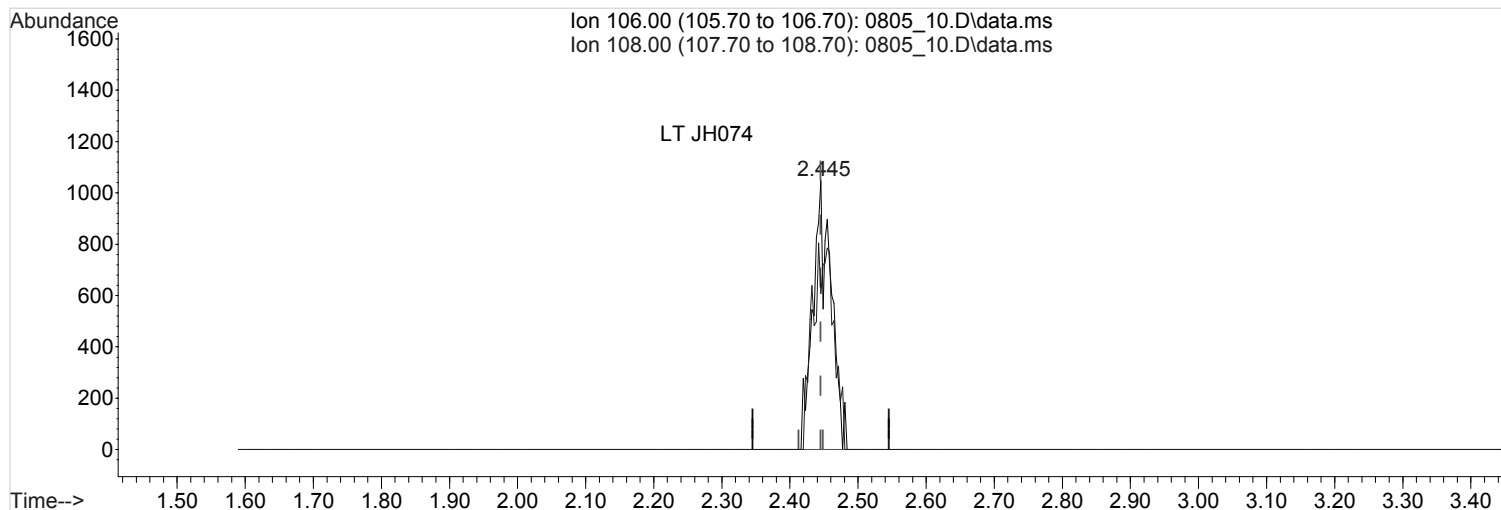
0.00	0.00	0.00
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
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TIC: 0805_10.D\data.ms

(11) VINYL BROMIDE (T,M)

2.445min (0.000) 0.4382525 ppb m

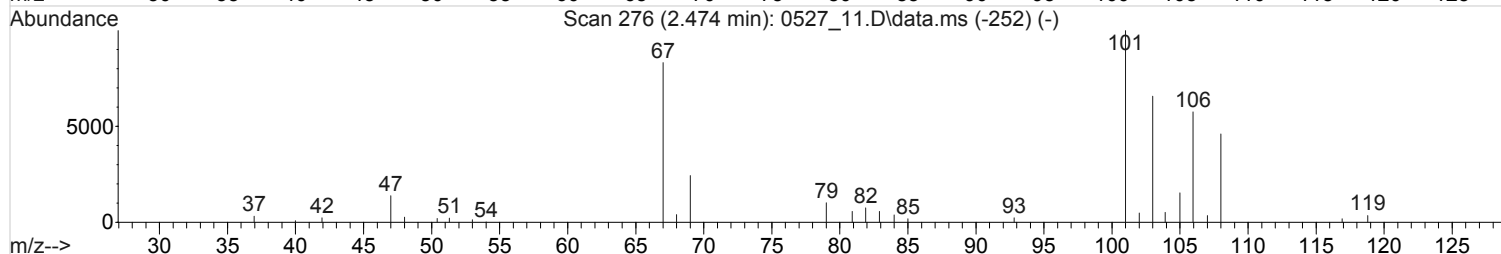
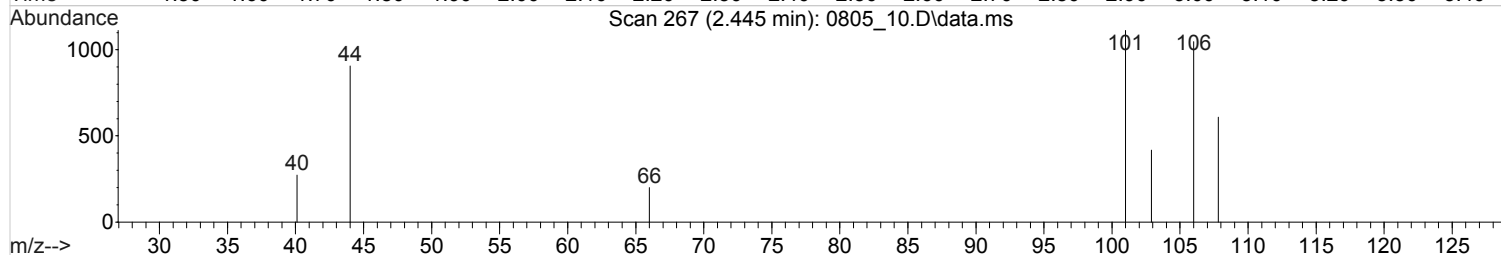
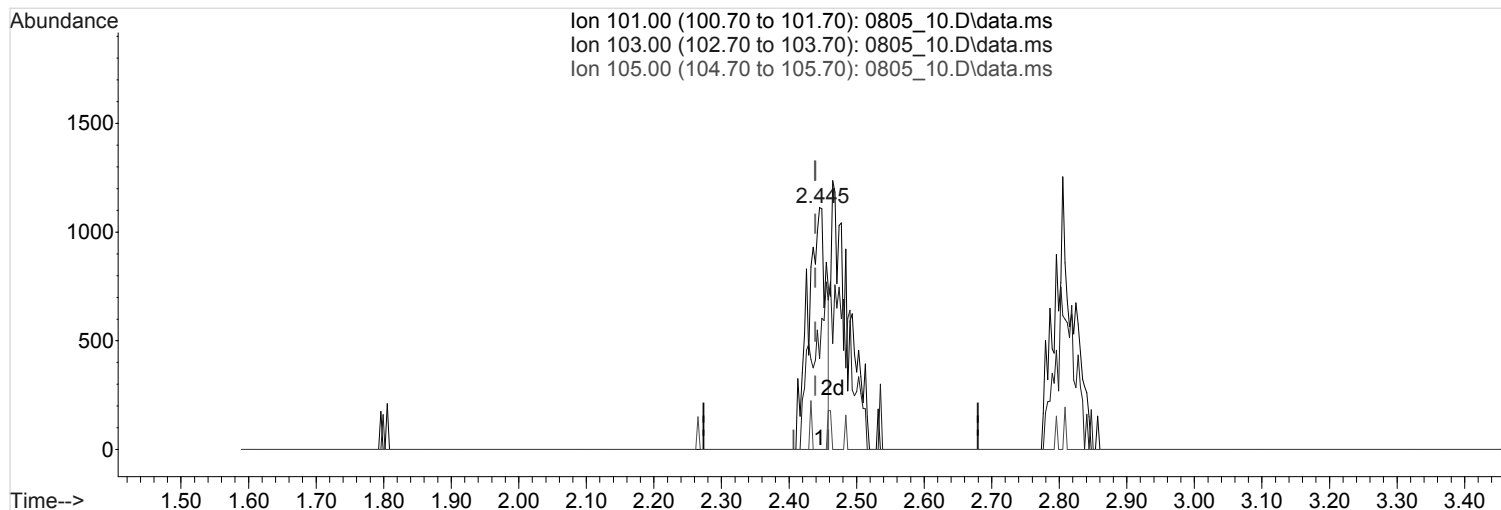
response 1949

Ion	Exp%	Act%
106.00	100	100
108.00	97.20	68.65#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
 Operator : 988
 Sample : STD VMS 0.5 ppb 20H05877
 Misc : water IS/SURR20G06381
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 InstName : VOCMS38

Quant Time: Aug 06 10:10:36 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_10.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.445min (+0.006) 0.2074245 ppb

Qvalue = 90

response 2070

Ion	Exp%	Act%
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101.00	100	100
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103.00	17.10	20.92#
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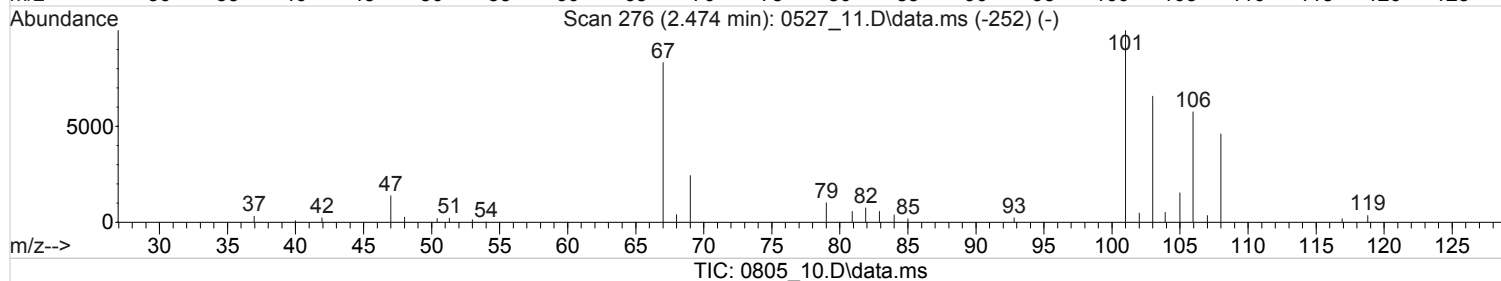
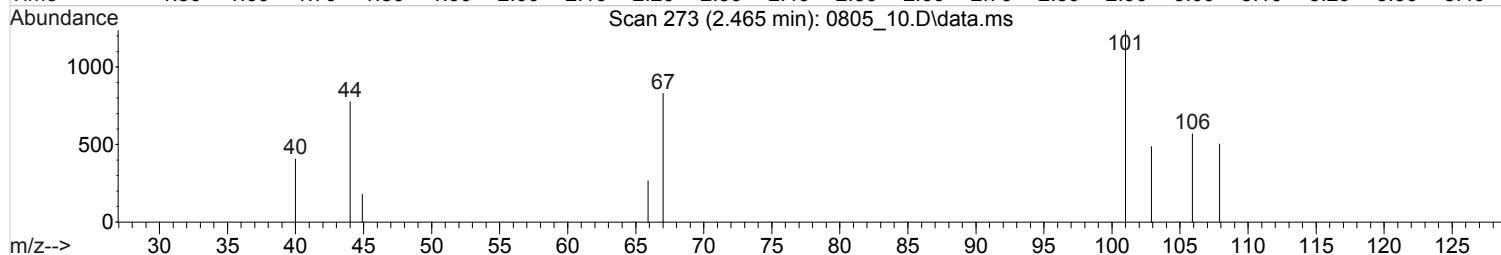
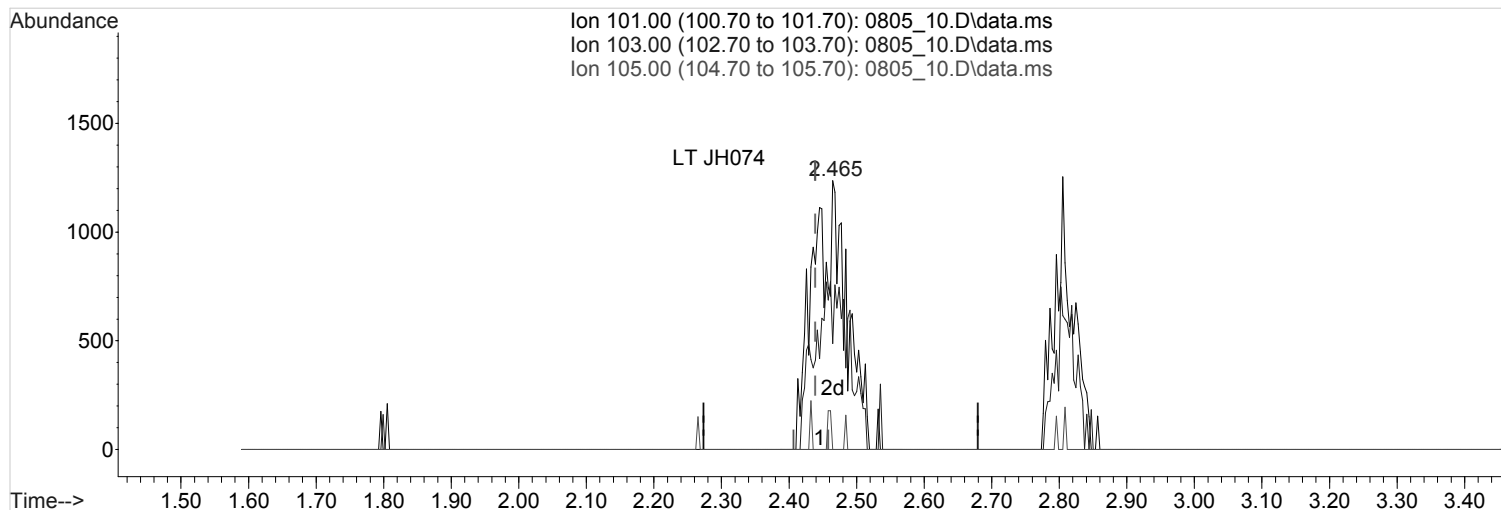
105.00	4.20	0.00#
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_10.D
 Acq On : 5 Aug 2020 9:37 pm
 Operator : 988
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 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
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 Response via : Initial Calibration



TIC: 0805_10.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.465min (+0.026) 0.4269738 ppb m

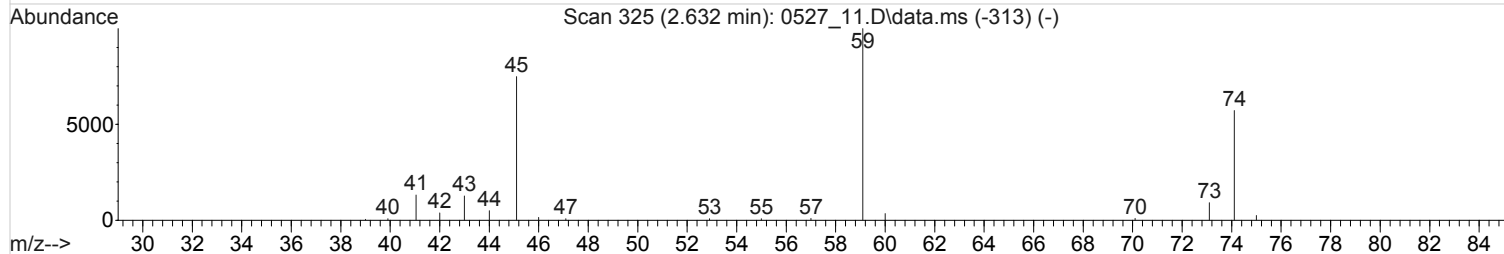
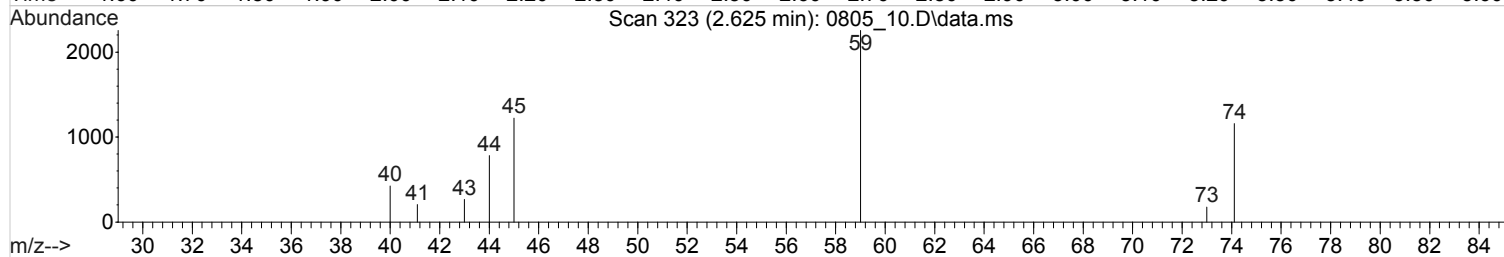
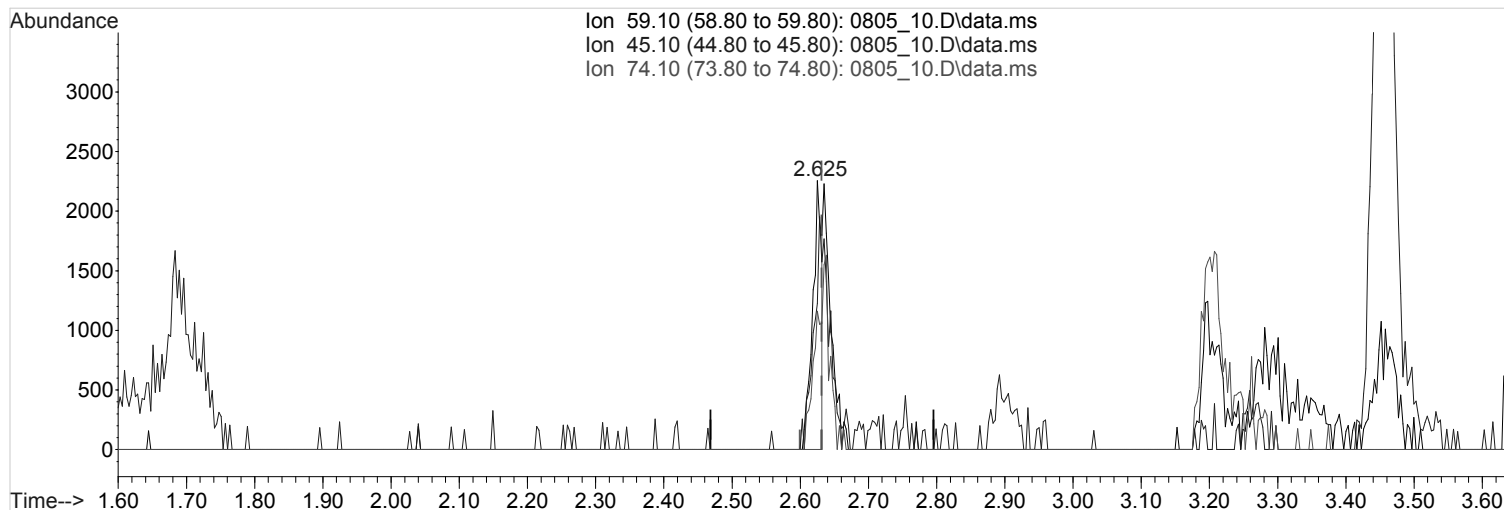
response 4261

Ion	Exp%	Act%
101.00	100	100
103.00	17.10	10.16#
105.00	4.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Acq On : 5 Aug 2020 9:37 pm
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TIC: 0805_10.D\data.ms

(14) ETHYL ETHER (M,T)

2.625min (-0.006) 0.2680572 ppb

Qvalue = 20

response 2066

Ion	Exp%	Act%
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59.10	100	100
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45.10	77.60	146.66#
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74.10	52.20	109.05#
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0.00	0.00	0.00
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Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_11.D
 Acq On : 5 Aug 2020 9:56 pm
 Operator : 988
 Sample : STD VMS 1 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:19:42 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	399666	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.503	82	196108	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.976	152	123751	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.56
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.50
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.98
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.413	65	171399	16.4380386	ppb	0.00
Spiked Amount	16.000		Recovery	= 102.74%		
61) TOLUENE-D8	5.484	98	422215	17.2086968	ppb	0.00
Spiked Amount	16.000	Range 90 - 115	Recovery	= 107.55%		
80) 4-BROMOFLUOROBENZENE	7.342	95	174727	17.2678575	ppb	0.00
Spiked Amount	16.000	Range 80 - 120	Recovery	= 107.92%		
Target Compounds						
					Qvalue	
4) PROPENE	1.767	41	3225m	1.0000965	ppb	
5) DICHLORODIFLUOROMETHANE	1.796	85	8244m	1.0302218	ppb	
6) CHLOROMETHANE	1.992	50	11398	1.0937102	ppb	# 48
7) VINYL CHLORIDE	2.043	62	7533	0.8956637	ppb	# 71
8) 1,3-BUTADIENE	2.027	39	8515	1.0600733	ppb	96
9) BROMOMETHANE	2.307	94	5538m	1.0888847	ppb	
10) CHLOROETHANE	2.368	64	4992m	0.9849701	ppb	
11) VINYL BROMIDE	2.445	106	4308m	0.9569472	ppb	
12) TRICHLOROFLUOROMETHANE	2.442	101	9040m	0.8948657	ppb	
13) DICHLOROFLUOROMETHANE	2.497	67	14124	1.0121117	ppb	95
14) ETHYL ETHER	2.635	59	7008	0.8982370	ppb	89
16) ETHANOL	2.696	45	399	30.2375391	ppb	# 56
17) 1,1-DICHLOROETHENE	2.776	96	4475	0.9150330	ppb	99
18) 1,1,2-TRICHLOROTRIFLUO...	2.809	101	4833m	0.9365286	ppb	
19) ACETONE	3.143	43	12730	5.3056909	ppb	# 68
20) IODOMETHANE	2.876	142	45132	4.7863578	ppb	97
21) CARBON DISULFIDE	2.812	76	15353	0.9723691	ppb	# 94
22) ALLYL CHLORIDE	3.059	76	17020	5.0298918	ppb	82
23) METHYLENE CHLORIDE	3.117	84	6637	1.0045158	ppb	92
24) METHYL ACETATE	3.201	43	40200	4.1848213	ppb	# 97
25) ACRYLONITRILE	3.593	53	23949	3.8780544	ppb	89
26) n-HEXANE	3.249	56	6413	0.9865274	ppb	# 93
27) TRANS-1,2-DICHLOROETHENE	3.214	96	5334	0.9480690	ppb	98
28) METHYL TERT-BUTYL ETHER	3.262	73	19216	0.8881181	ppb	96
29) TERT-BUTYL ALCOHOL	3.281	59	2639	3.6622691	ppb	# 100
30) 1,1-DICHLOROETHANE	3.564	63	13277	0.9167240	ppb	98
31) VINYL ACETATE	3.670	43	102434	4.5927282	ppb	99
32) DI-ISOPROPYL ETHER	3.458	45	30942	0.9350936	ppb	96
33) ETHYL TERT-BUTYL ETHER	3.657	59	27445	0.9741425	ppb	99
34) 2,2-DICHLOROPROPANE	3.934	77	8242	0.9983197	ppb	# 79
35) CIS-1,2-DICHLOROETHENE	3.857	96	5939	0.9005535	ppb	88
36) 2-BUTANONE (MEK)	4.159	43	35785	4.6069620	ppb	# 86
37) BROMOCHLOROMETHANE	3.976	130	3735	0.8327579	ppb	77
38) TETRAHYDROFURAN	4.098	42	4769	0.8459173	ppb	# 90
39) CHLOROFORM	3.998	83	11731	0.9045142	ppb	# 90
40) CYCLOHEXANE	3.998	84	7617	0.9510483	ppb	98
41) 1,1,1-TRICHLOROETHANE	4.136	97	10305	0.9481040	ppb	98
42) CARBON TETRACHLORIDE	4.098	117	8994	0.9165743	ppb	94

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_11.D
 Acq On : 5 Aug 2020 9:56 pm
 Operator : 988
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 Misc : water IS/SURR20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:19:42 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
43)	1,1-DICHLOROPROPENE	4.198	75	8555	0.9672806	ppb		98
44)	2,2,4-TRIMETHYLPENTANE	4.239	57	24253	0.9084116	ppb		96
45)	n-Heptane	4.275	71	4431	0.9371115	ppb	#	85
46)	BENZENE	4.336	78	24551	0.9438968	ppb		97
47)	TERT-AMYL METHYL ETHER	4.371	73	20537	0.9594864	ppb		96
49)	1,2-DICHLOROETHANE	4.452	62	12097	0.9722133	ppb	#	93
50)	T-AMYL ALCOHOL	4.445	59	6417m	4.3365075	ppb		
51)	TRICHLOROETHENE	4.657	132	5963	0.9929945	ppb		97
52)	METHYL CYCLOHEXANE	4.664	83	8653	0.9026628	ppb		97
53)	TERT-AMYL ETHYL ETHER	4.751	59	19647	0.9335194	ppb		98
54)	1,2-DICHLOROPROPANE	4.969	62	5490	0.9381600	ppb		95
55)	DIBROMOMETHANE	4.918	93	4177	0.9232191	ppb		99
56)	BROMODICHLOROMETHANE	4.992	83	10148	1.0028450	ppb	#	95
57)	2-CHLOROETHYL VINYL ETHER	5.300	63	34009	4.6714444	ppb		98
58)	CIS-1,3-DICHLOROPROPENE	5.368	75	10856	0.9586694	ppb	#	98
60)	4-METHYL-2-PENTANONE (...)	5.728	43	79839	4.5030176	ppb		100
62)	TOLUENE	5.516	91	26342	0.9911508	ppb		100
63)	TRANS-1,3-DICHLOROPROPENE	5.763	75	10647	0.9305881	ppb		99
64)	1,1,2-TRICHLOROETHANE	5.876	97	6043	1.0236639	ppb		98
65)	TETRACHLOROETHENE	5.773	164	4986	0.9580063	ppb		98
66)	1,3-DICHLOROPROPANE	6.062	76	10846	0.9483696	ppb		98
67)	2-HEXANONE	6.271	58	28881	4.3685953	ppb		100
68)	CHLORODIBROMOMETHANE	6.005	129	6508	0.9291087	ppb		94
69)	1,2-DIBROMOETHANE	6.175	107	6730	0.9787825	ppb		93
70)	CHLOROBENZENE	6.516	112	16402	1.0227368	ppb		90
71)	1,1,1,2-TETRACHLOROETHANE	6.551	133	5896	0.9810998	ppb	#	20
72)	ETHYLBENZENE	6.506	106	8731	0.9713175	ppb		97
73)	M&P-XYLENE	6.606	106	21717	1.9289034	ppb		97
74)	O-XYLENE	6.914	106	10337	0.9373887	ppb		93
77)	STYRENE	6.947	104	16898	0.9445126	ppb		100
78)	BROMOFORM	6.995	173	5069	0.8910627	ppb		96
79)	ISOPROPYLBENZENE	7.127	105	27565	0.9398218	ppb		98
82)	BROMOBENZENE	7.419	77	13697	0.9768085	ppb		99
83)	1,1,2,2-TETRACHLOROETHANE	7.455	83	9507	0.9607863	ppb		99
84)	1,2,3-TRICHLOROPROPANE	7.567	110	2928	0.8902706	ppb		94
85)	TRANS-1,4-DICHLORO-2-B...	7.574	53	2981	0.8108680	ppb	#	93
86)	N-PROPYLBENZENE	7.406	91	32757	0.9721464	ppb		99
87)	4-ETHYLTOLUENE	7.480	105	28274	0.9729195	ppb		98
88)	2-CHLOROTOLUENE	7.532	91	23316	0.9910083	ppb		98
89)	4-CHLOROTOLUENE	7.644	91	21207	0.9705831	ppb		98
90)	1,3,5-TRIMETHYLBENZENE	7.529	105	24131	0.9812912	ppb		99
91)	TERT-BUTYLBENZENE	7.741	119	17463	0.9523017	ppb		97
92)	1,2,4-TRIMETHYLBENZENE	7.779	105	22825	0.9839180	ppb		97
93)	SEC-BUTYLBENZENE	7.837	105	24628	0.9598163	ppb		99
94)	1,3-DICHLOROBENZENE	7.950	146	9643	0.9458065	ppb		93
95)	P-ISOPROPYLTOLUENE	7.895	119	20067	0.9647925	ppb		99
96)	DICYCLOPENTADIENE	7.905	66	27455	0.9447573	ppb		97
97)	1,4-DICHLOROBENZENE	7.982	146	10030	1.0074719	ppb	#	1
98)	1,2,3-TRIMETHYLBENZENE	7.982	105	15923	0.9889145	ppb		96
99)	1,2-DICHLOROBENZENE	8.139	146	9141	1.0404284	ppb		95
100)	N-BUTYLBENZENE	8.062	91	16515	0.9603852	ppb		96
101)	1,2-DIBROMO-3-CHLOROPR...	8.435	157	1691	0.8672913	ppb		80
102)	1,3,5-TRICHLOROBENZENE	8.448	180	5689	0.9662345	ppb		98
103)	1,2,4-TRICHLOROBENZENE	8.709	180	5381	1.0665084	ppb		90
104)	HEXACHLORO-1,3-BUTADIENE	8.683	225	2158	1.0493826	ppb		92

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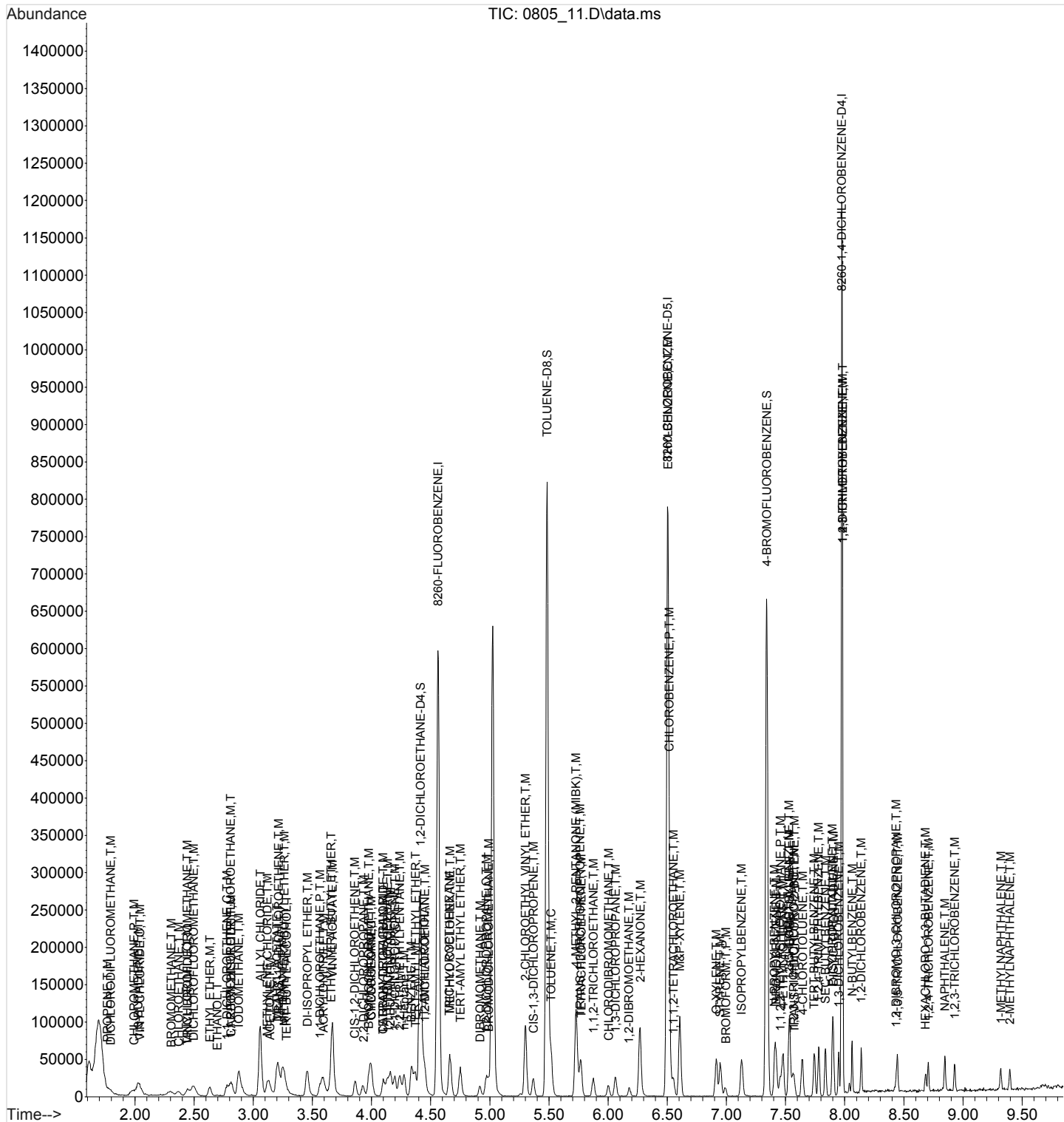
Quant Time: Aug 06 10:19:42 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 10:09:56 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
105) NAPHTHALENE	8.847	128	17074	0.9418923	ppb		99
106) 1,2,3-TRICHLOROBENZENE	8.930	180	4924	1.0687580	ppb		97
107) 1-METHYLNAPHTHALENE	9.319	142	6187	0.9179850	ppb		96
108) 2-METHYLNAPHTHALENE	9.397	142	5631	0.8928104	ppb		94

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

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_11.D
Acq On : 5 Aug 2020 9:56 pm
Operator : 988
Sample : STD VMS 1 ppb 20H05877
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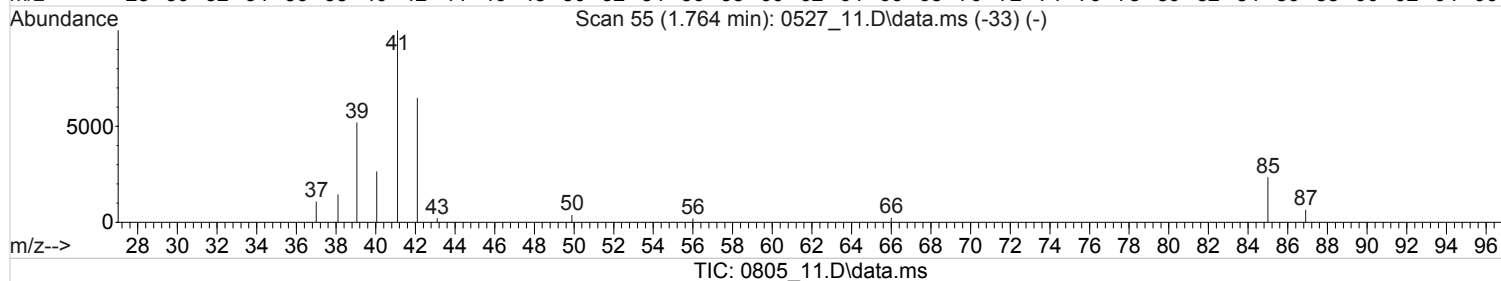
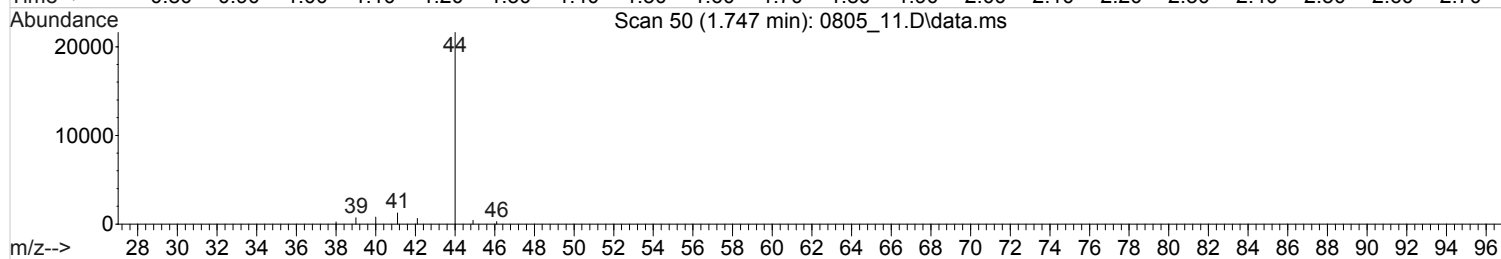
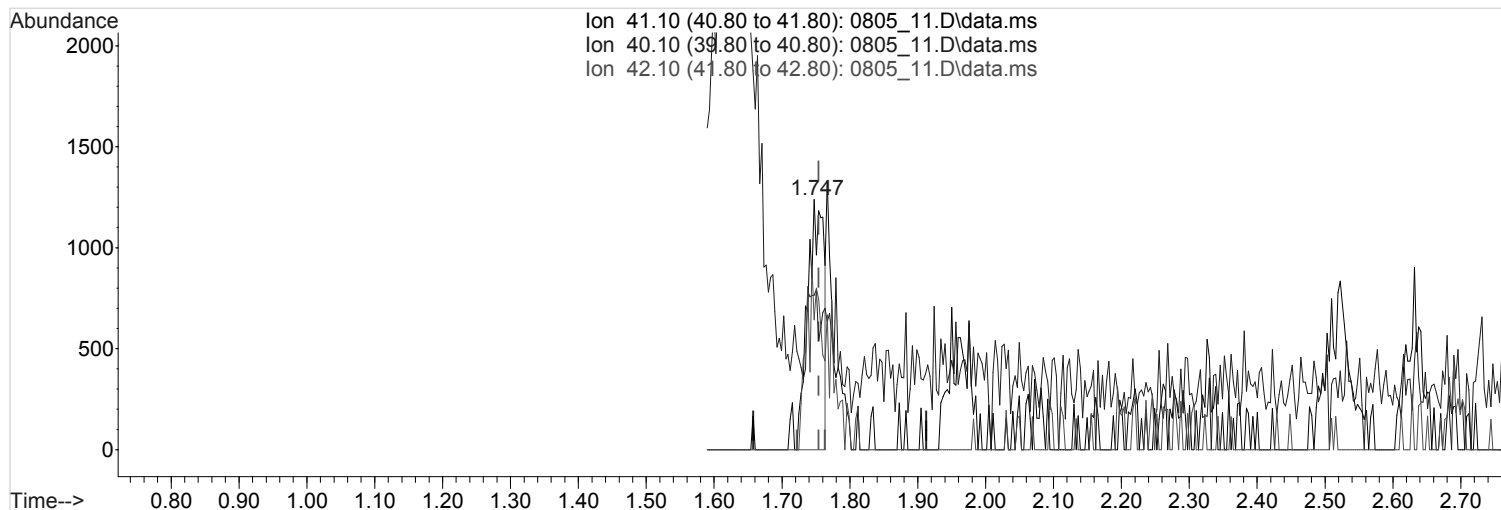
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_11.D
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 Operator : 988
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 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:41 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



(4) PROPENE (T,M)

1.747min (-0.006) 0.6385112 ppb

Qvalue = 48

response 2059

Ion	Exp%	Act%
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41.10	100	100
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40.10	10.90	22.10#
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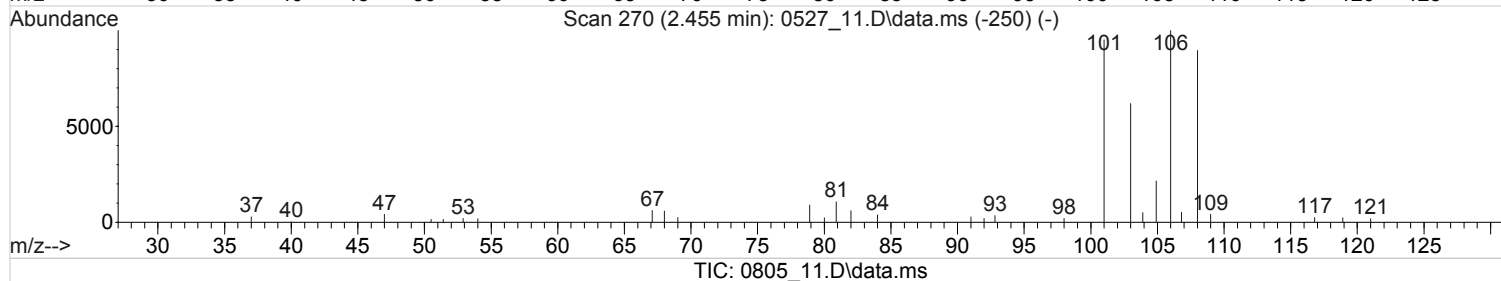
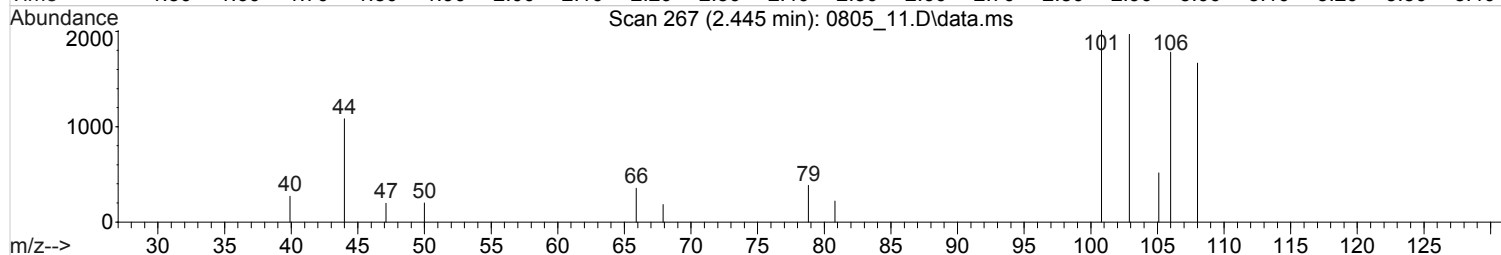
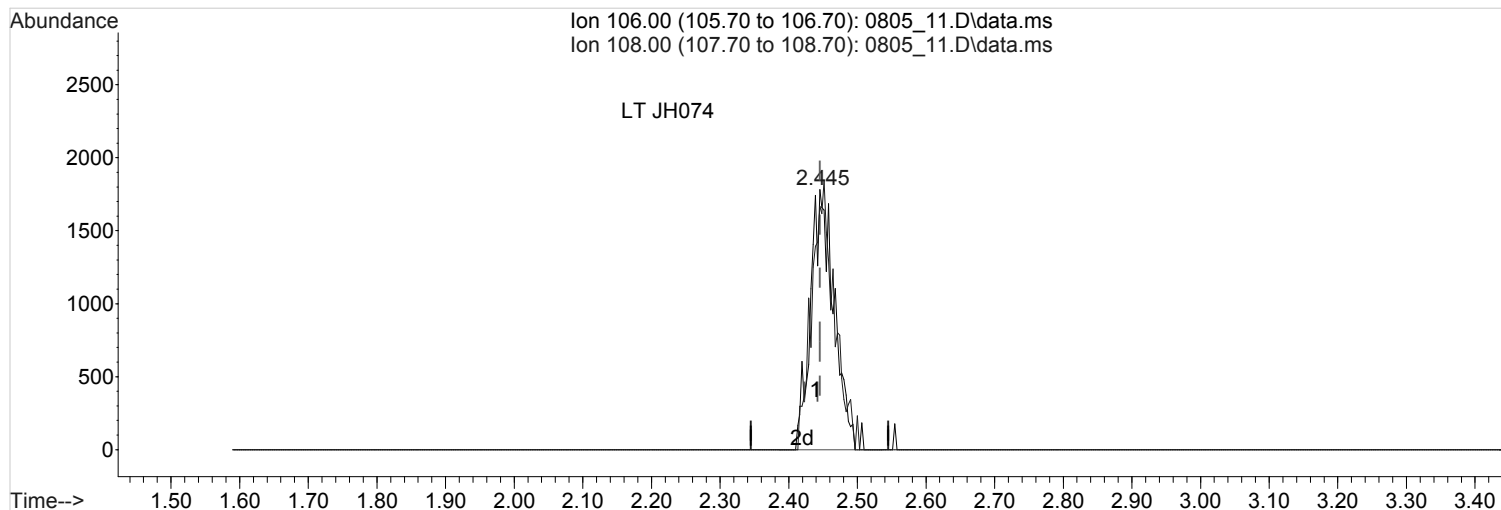
42.10	69.00	23.94#
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_11.D
 Acq On : 5 Aug 2020 9:56 pm
 Operator : 988
 Sample : STD VMS 1 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:41 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_11.D\data.ms

(11) VINYL BROMIDE (T,M)

2.445min (-0.000) 0.9569472 ppb m

response 4308

Ion	Exp%	Act%
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106.00	100	100
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108.00	97.20	96.52
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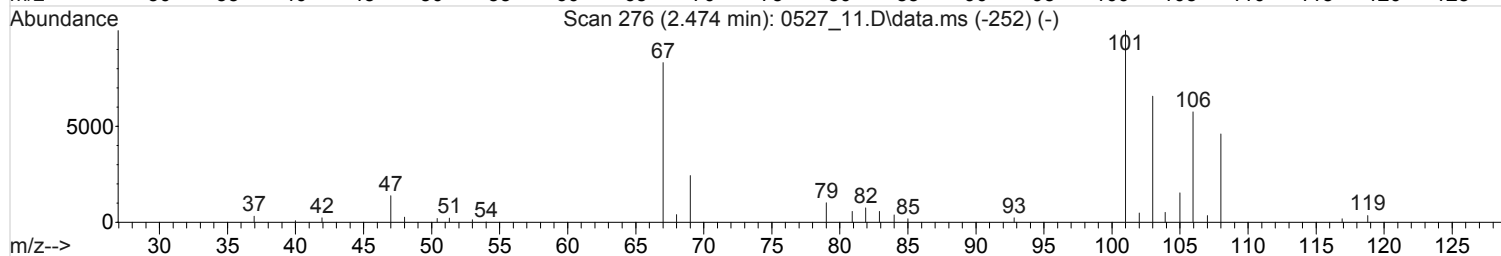
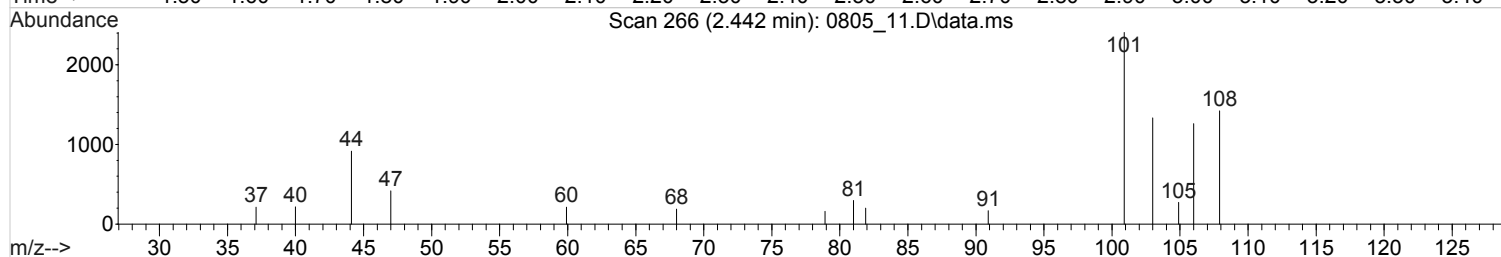
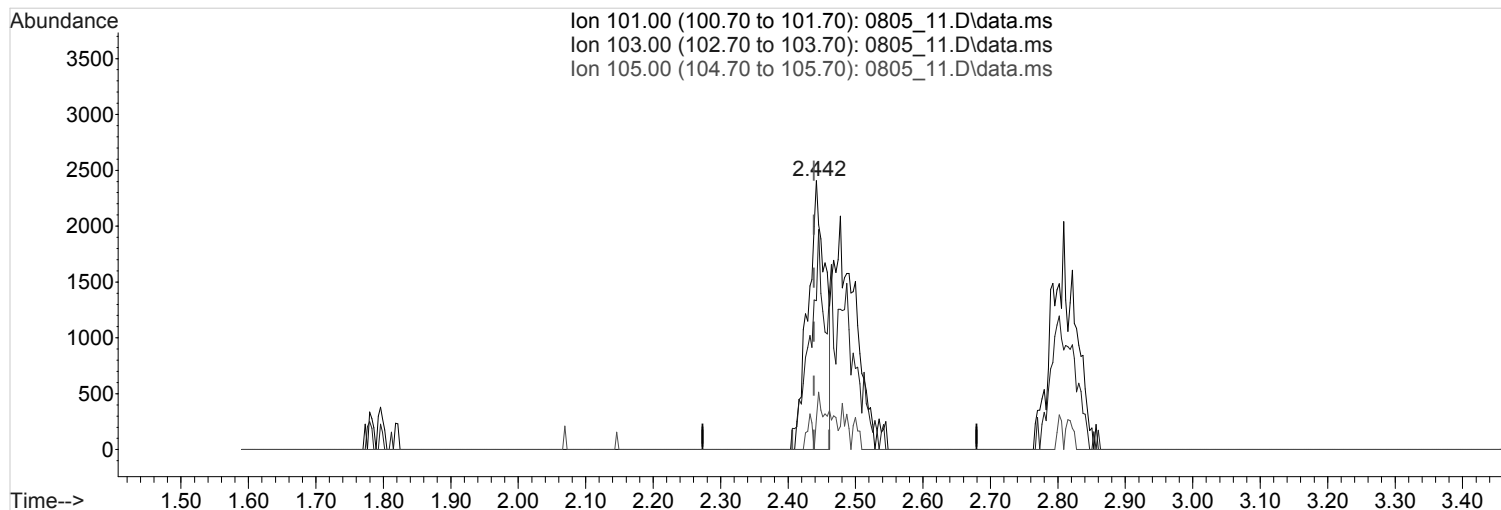
0.00	0.00	0.00
------	------	------

0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_11.D
 Acq On : 5 Aug 2020 9:56 pm
 Operator : 988
 Sample : STD VMS 1 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:41 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_11.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.442min (+0.003) 0.4207057 ppb

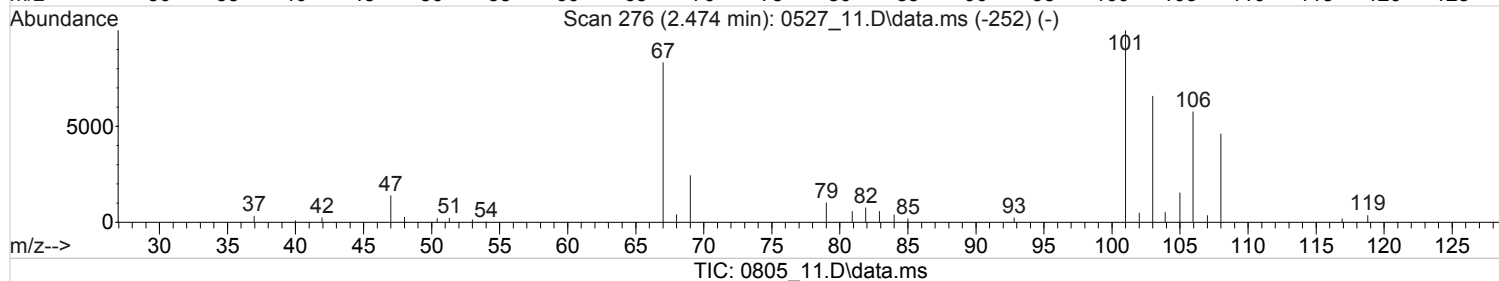
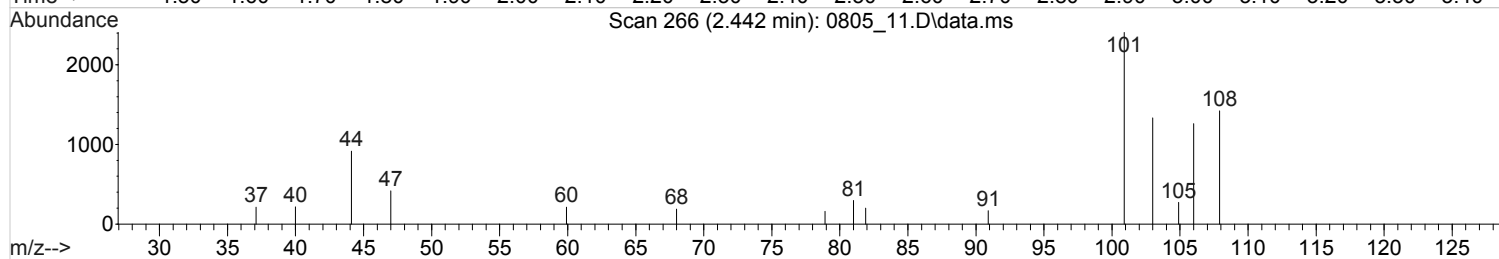
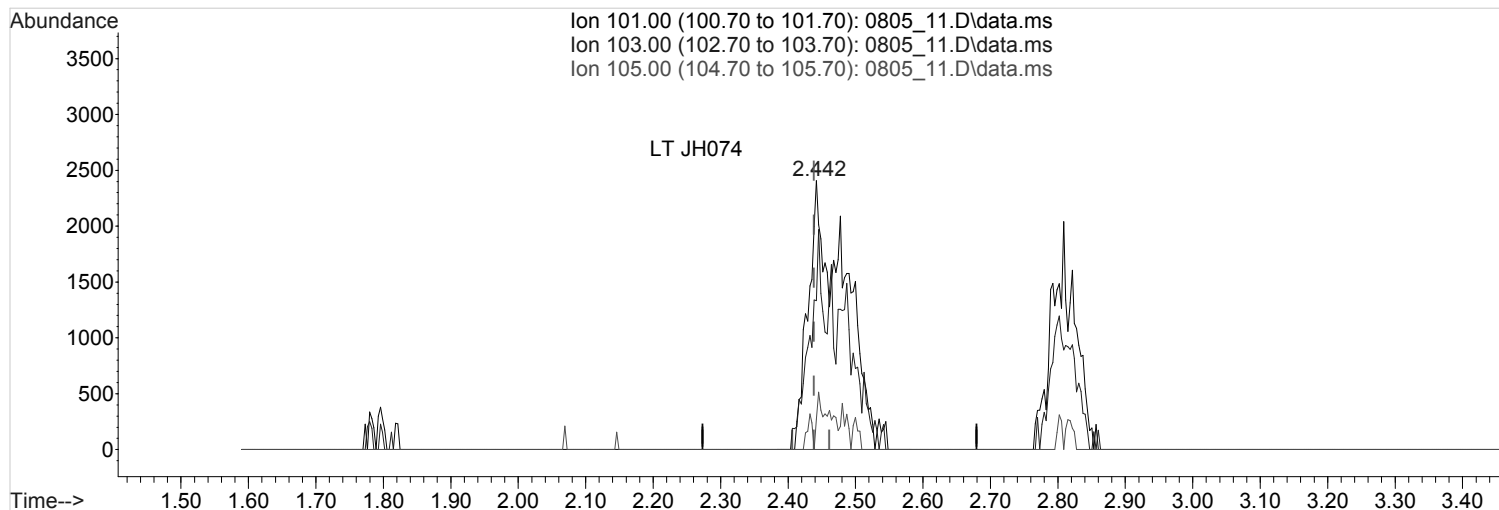
Qvalue = 2

response 4250

Ion	Exp%	Act%
101.00	100	100
103.00	17.10	68.40#
105.00	4.20	9.32#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_11.D
Acq On : 5 Aug 2020 9:56 pm
Operator : 988
Sample : STD VMS 1 ppb 20H05877
Misc : water IS/SURR20G06381
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS38

Quant Time: Aug 06 10:10:41 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 10:09:56 2020
Response via : Initial Calibration



TIC: 0805_11.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.442min (+0.003) 0.8948657 ppb m

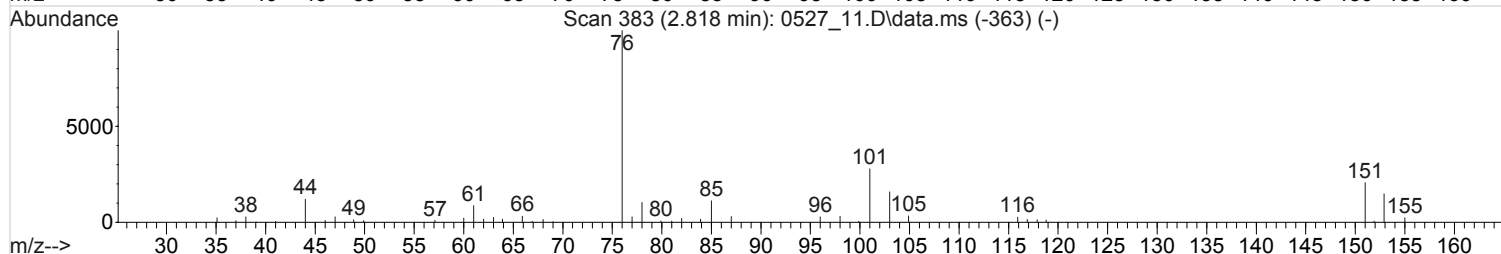
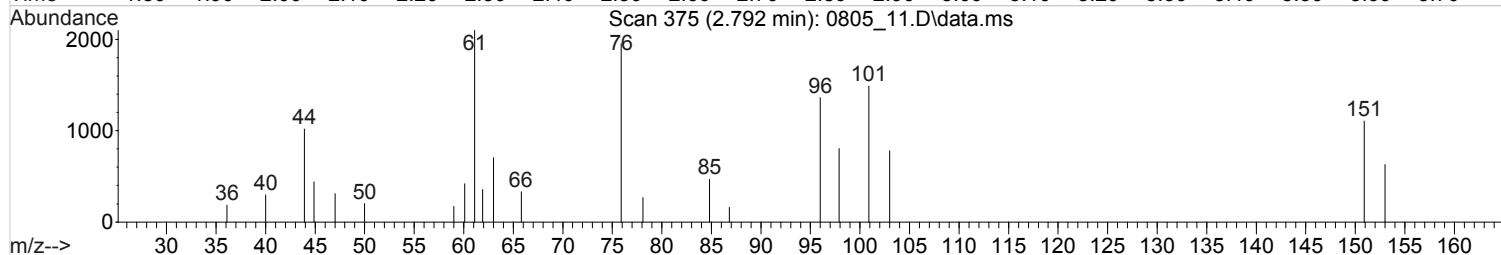
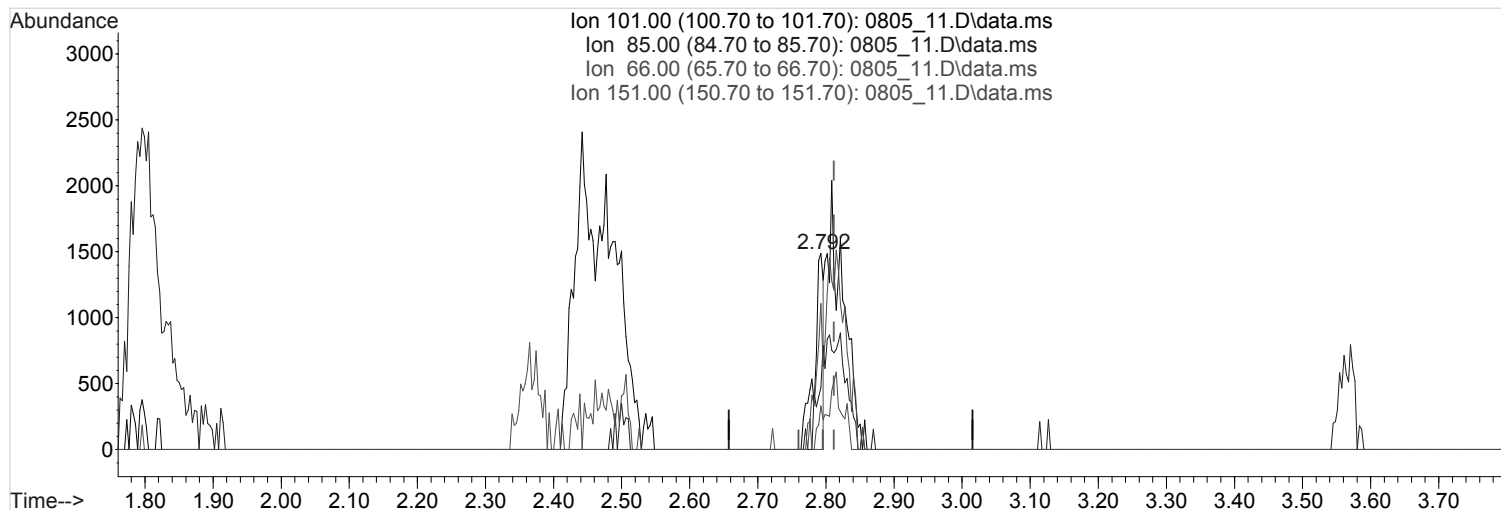
response 9040

Ion	Exp%	Act%
101.00	100	100
103.00	17.10	32.16#
105.00	4.20	4.38
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_11.D
 Acq On : 5 Aug 2020 9:56 pm
 Operator : 988
 Sample : STD VMS 1 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:41 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_11.D\data.ms

(18) 1,1,2-TRICHLOROTRIFLUOROETHANE (M,T)

2.792min (-0.019) 0.2695451 ppb

Qvalue = 62

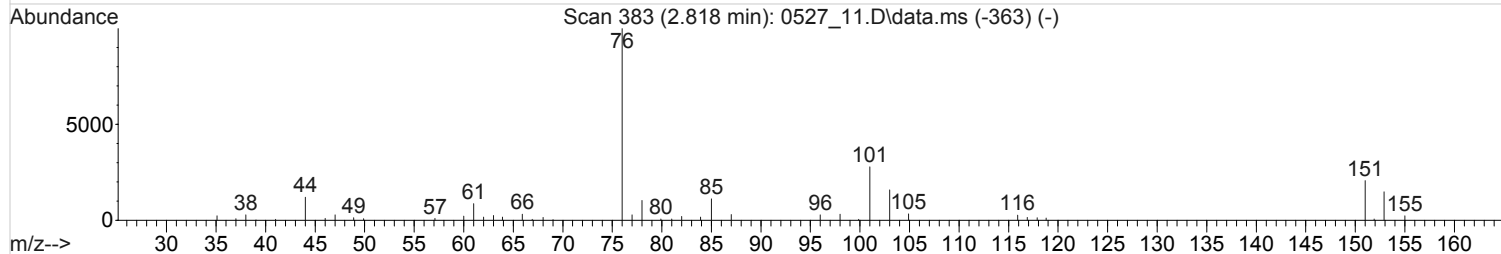
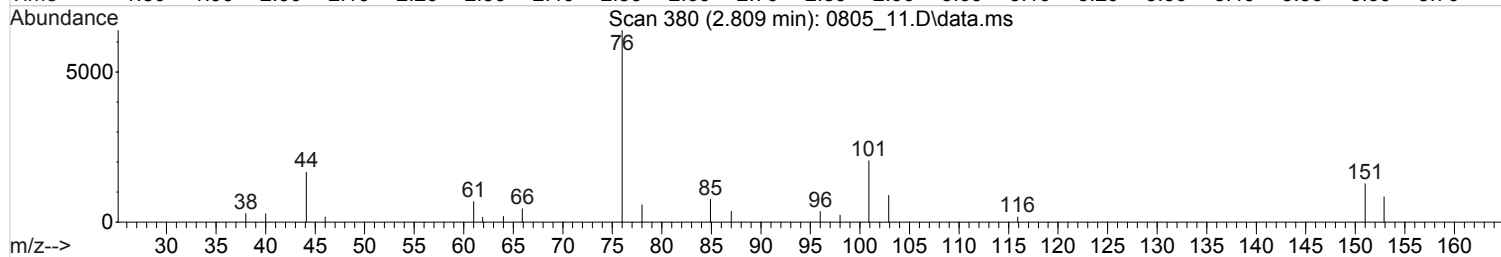
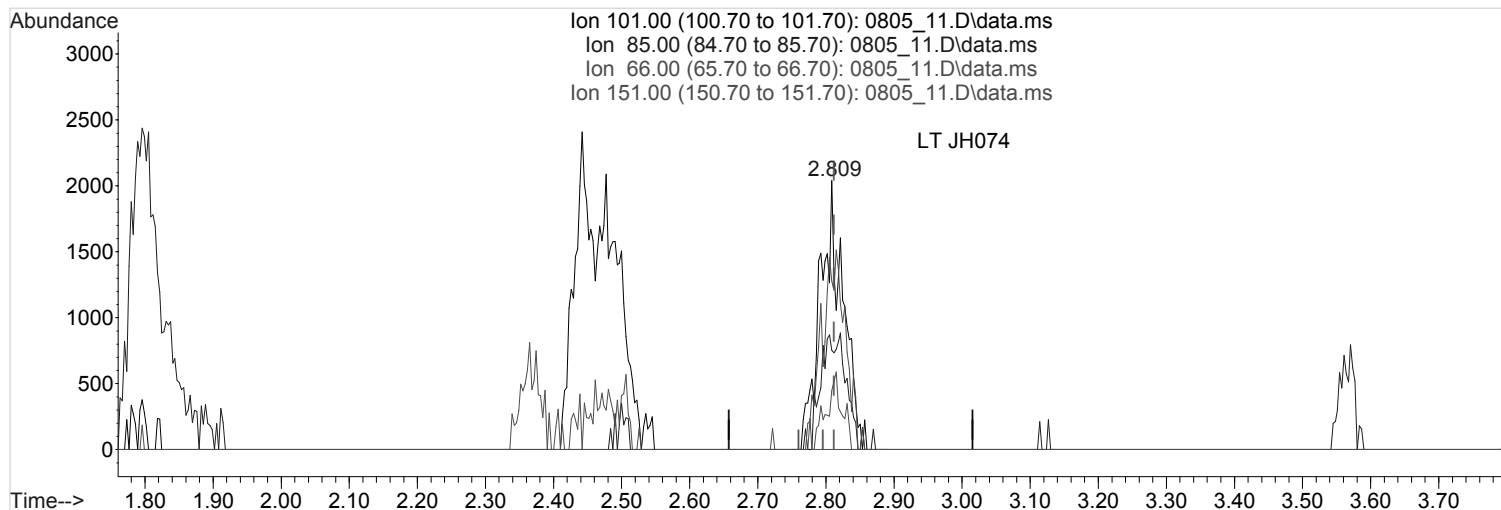
response 1391

Ion	Exp%	Act%
101.00	100	100
85.00	46.30	0.00#
66.00	13.40	19.91#
151.00	79.30	58.88#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_11.D
 Acq On : 5 Aug 2020 9:56 pm
 Operator : 988
 Sample : STD VMS 1 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:41 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_11.D\data.ms

(18) 1,1,2-TRICHLOROTRIFLUOROETHANE (M,T)

2.809min (-0.003) 0.9365286 ppb m

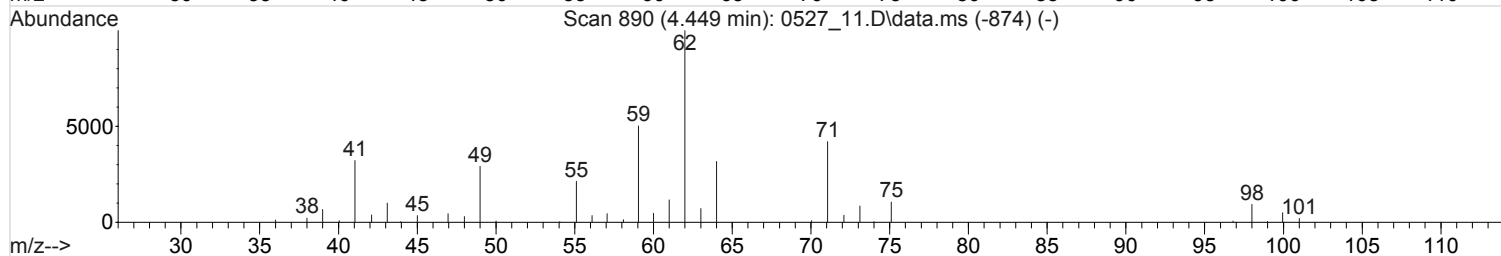
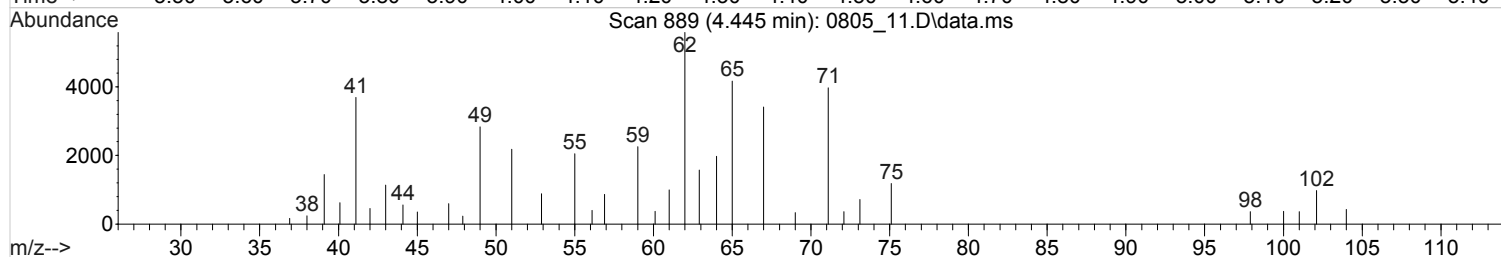
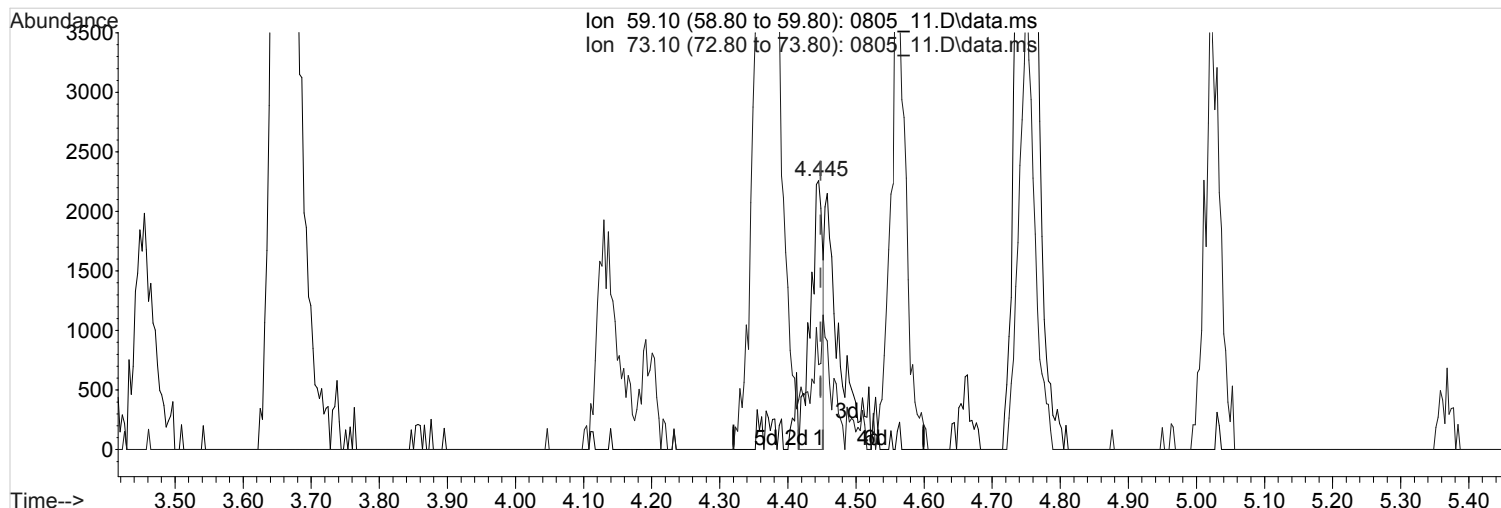
response 4833

Ion	Exp%	Act%
101.00	100	100
85.00	46.30	0.00#
66.00	13.40	5.73#
151.00	79.30	16.95#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_11.D
 Acq On : 5 Aug 2020 9:56 pm
 Operator : 988
 Sample : STD VMS 1 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:41 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_11.D\data.ms

(50) T-AMYL ALCOHOL (T)

4.445min (-0.003) 1.8489457 ppb

Qvalue = 74

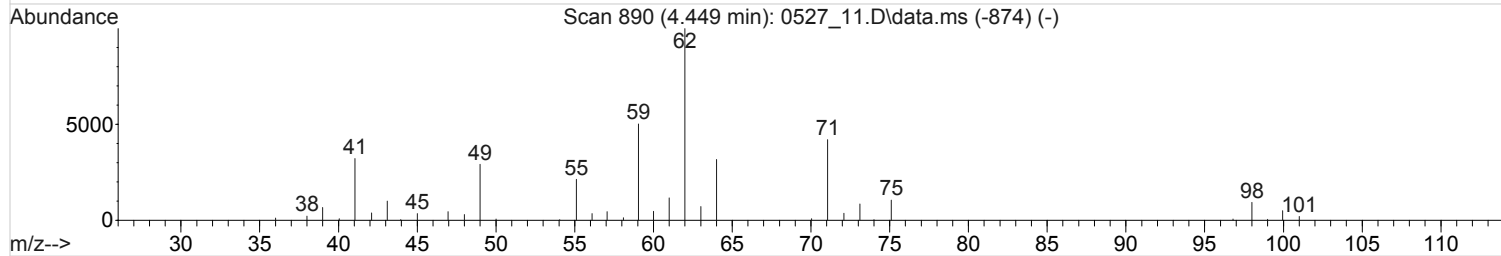
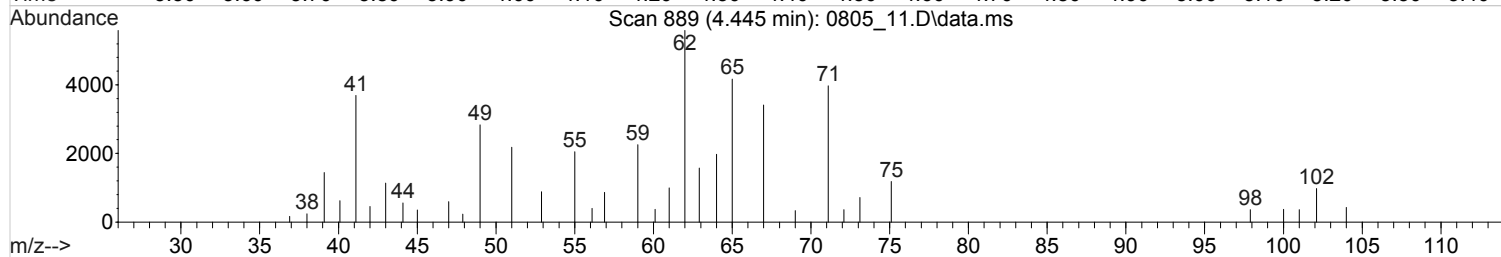
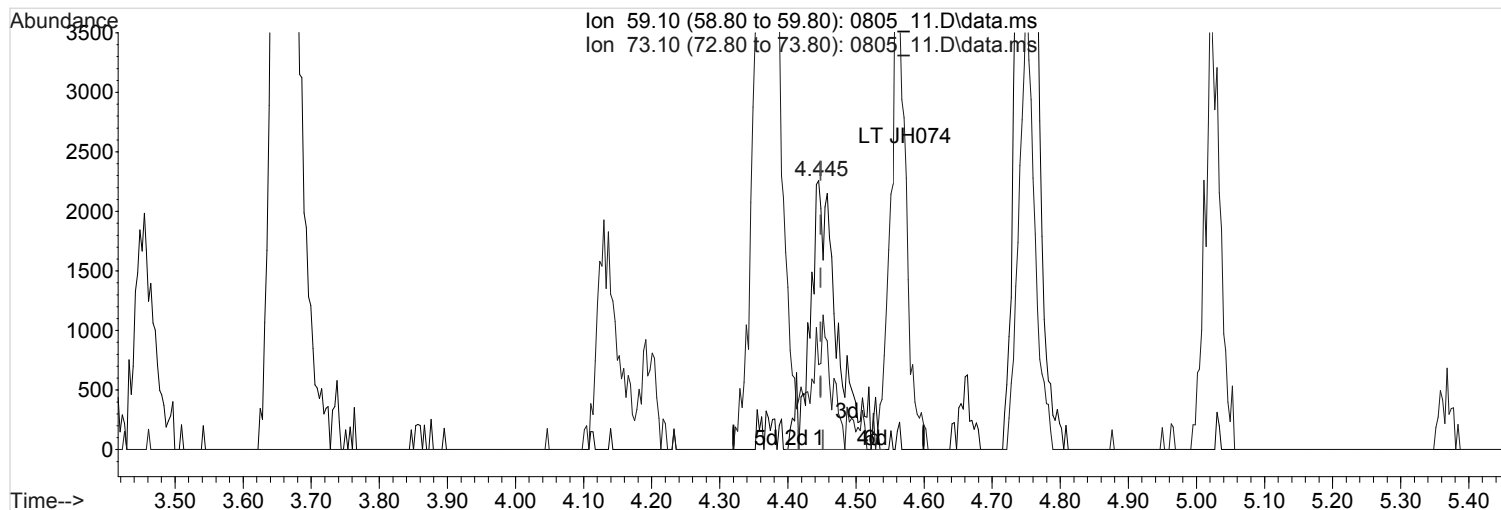
response 2736

Ion	Exp%	Act%
59.10	100	100
73.10	22.30	9.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_11.D
 Acq On : 5 Aug 2020 9:56 pm
 Operator : 988
 Sample : STD VMS 1 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:41 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_11.D\data.ms

(50) T-AMYL ALCOHOL (T)

4.445min (-0.003) 4.3365075 ppb m

response 6417

Ion	Exp%	Act%
-----	------	------

59.10	100	100
-------	-----	-----

73.10	22.30	4.13#
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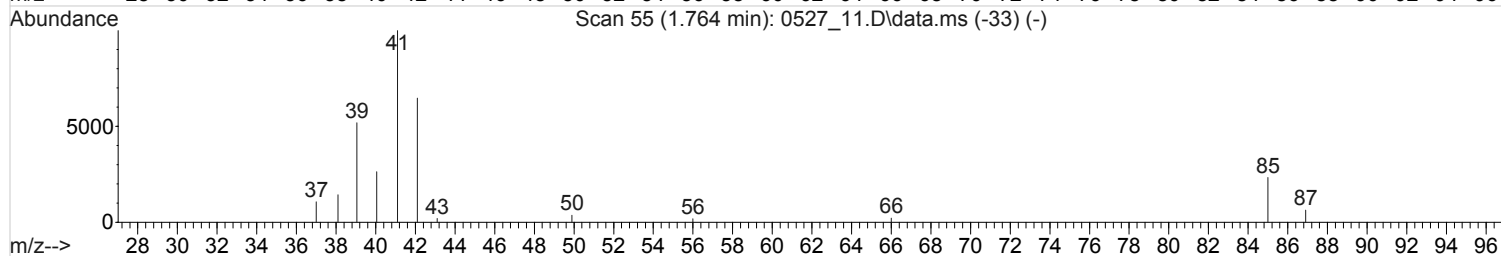
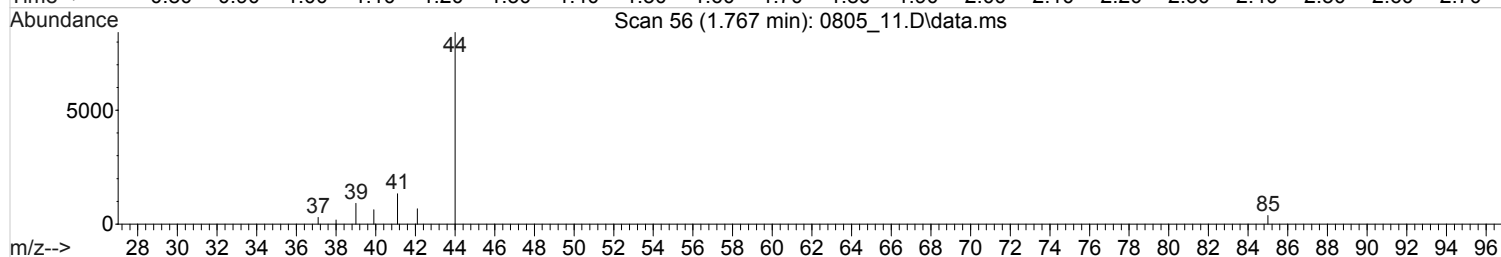
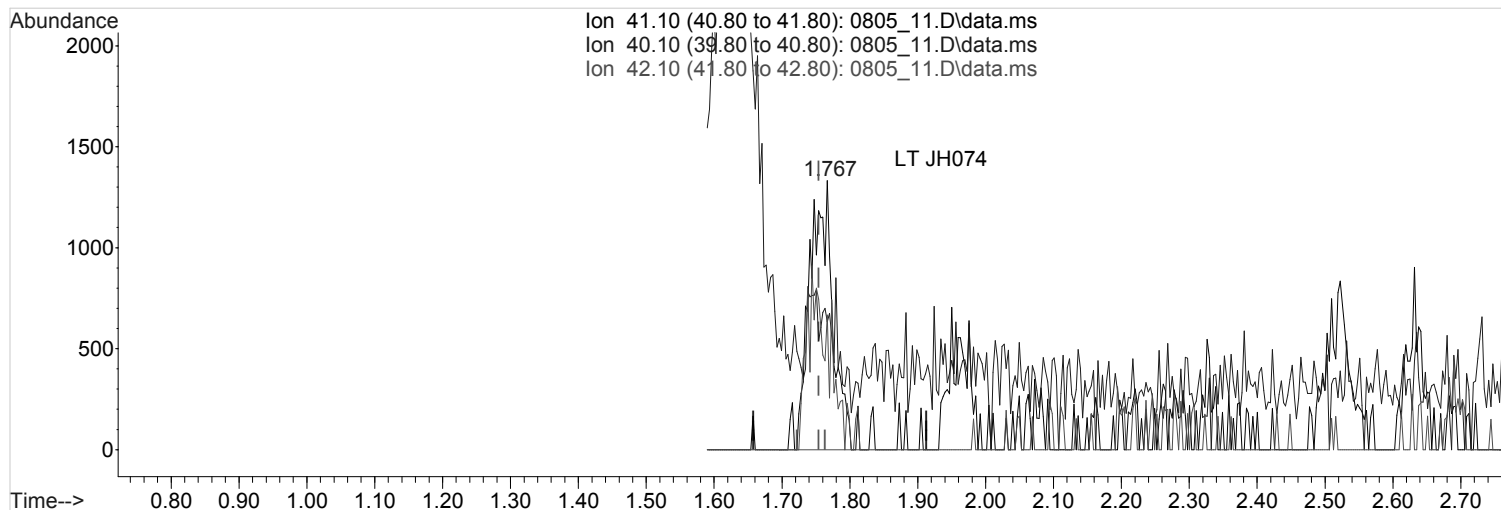
0.00	0.00	0.00
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0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_11.D
 Acq On : 5 Aug 2020 9:56 pm
 Operator : 988
 Sample : STD VMS 1 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:41 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_11.D\data.ms

(4) PROPENE (T,M)

1.767min (+0.013) 1.0000965 ppb m

response 3225

Ion	Exp%	Act%
-----	------	------

41.10	100	100
-------	-----	-----

40.10	10.90	14.11#
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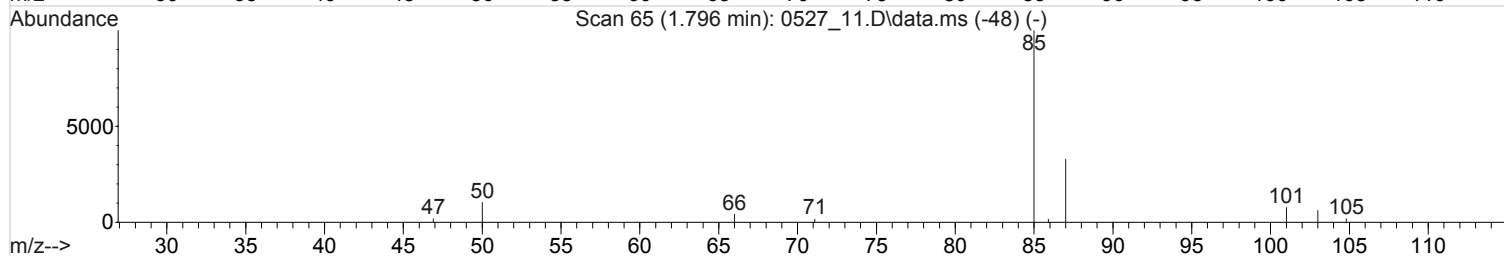
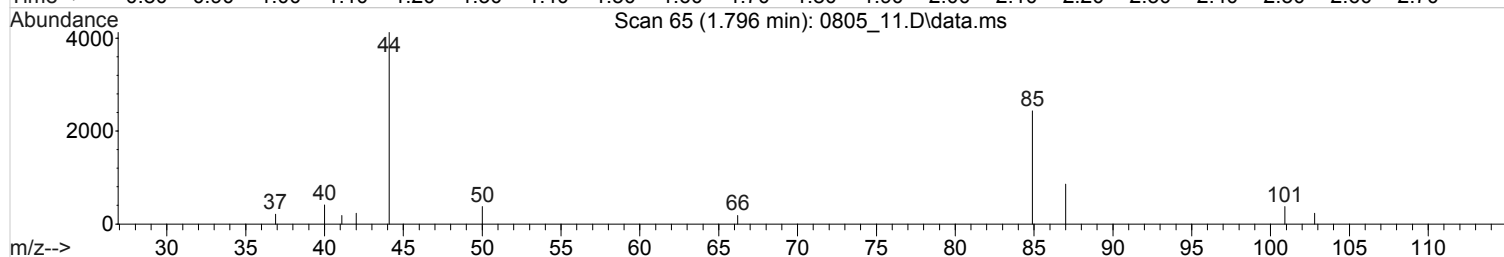
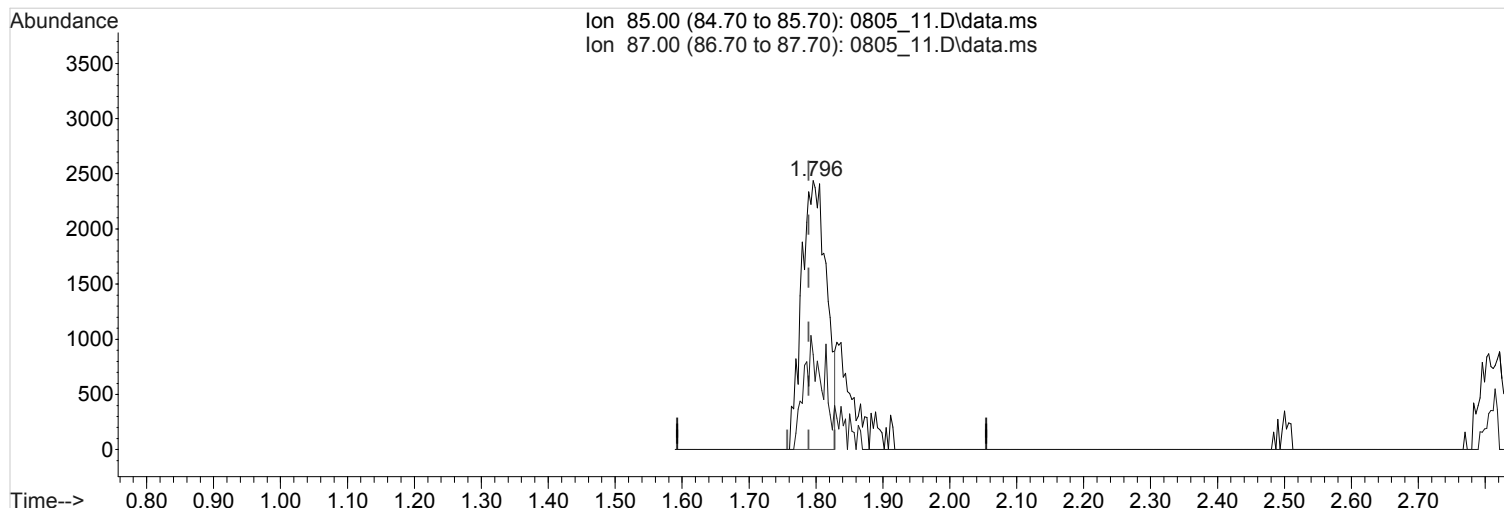
42.10	69.00	15.29#
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0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_11.D
 Acq On : 5 Aug 2020 9:56 pm
 Operator : 988
 Sample : STD VMS 1 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:41 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_11.D\data.ms

(5) DICHLORODIFLUOROMETHANE (T,M)

1.796min (+0.006) 0.7872874 ppb

Qvalue = 68

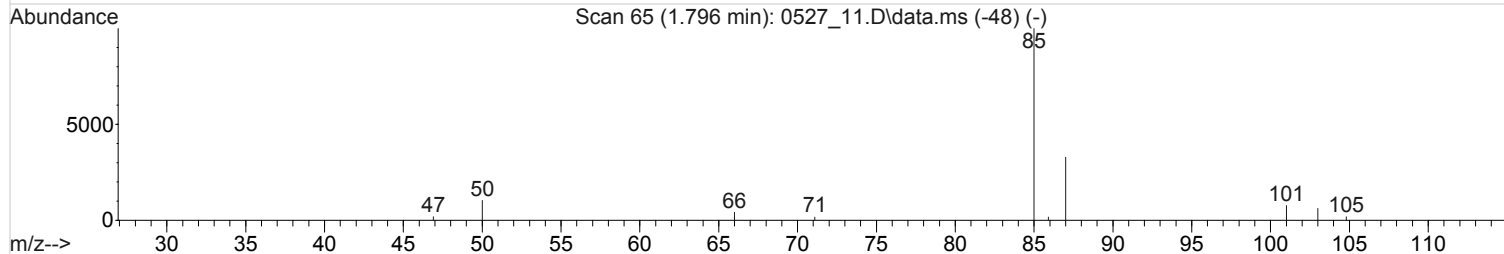
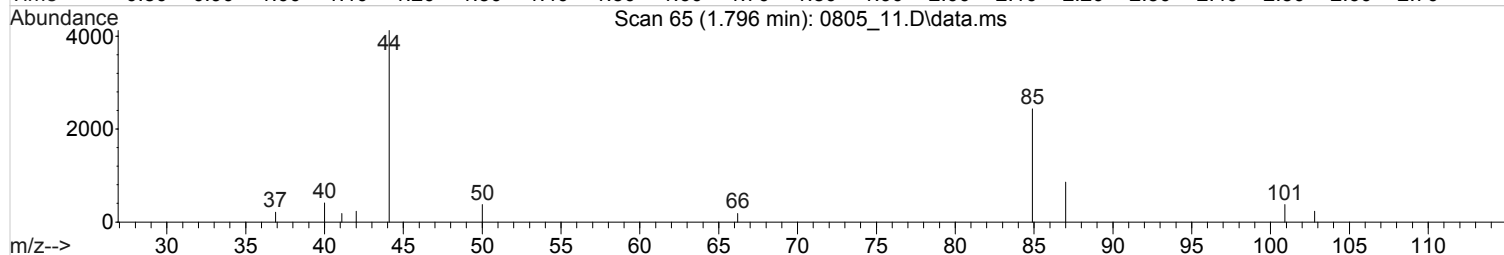
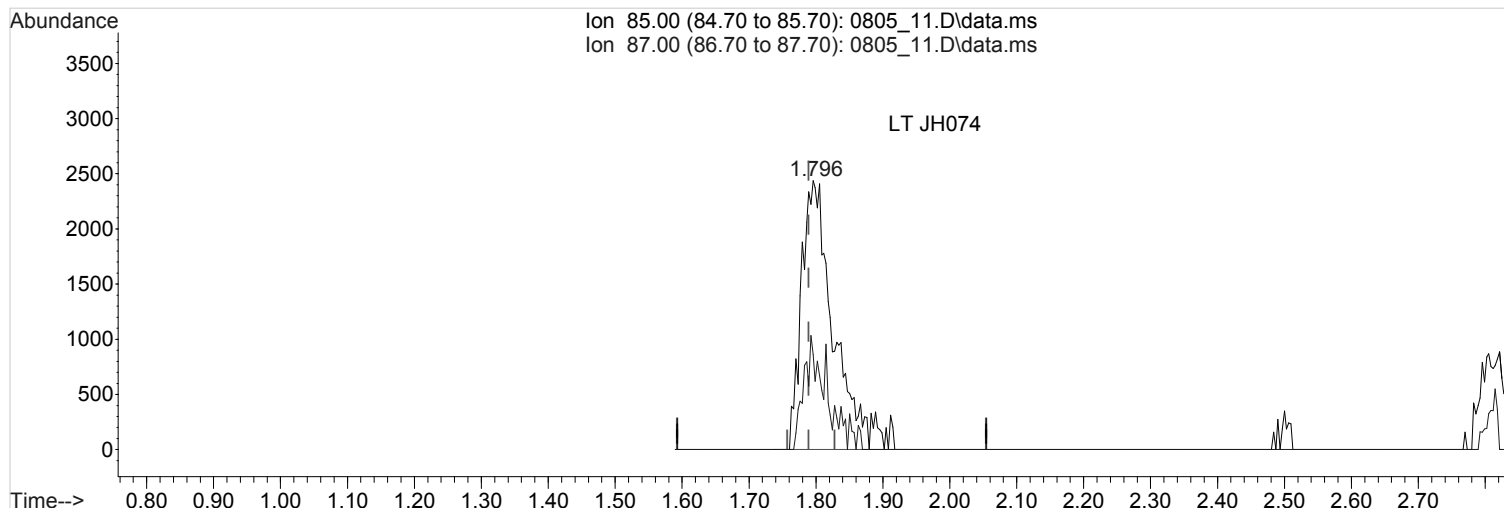
response 6300

Ion	Exp%	Act%
85.00	100	100
87.00	13.20	25.97#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_11.D
 Acq On : 5 Aug 2020 9:56 pm
 Operator : 988
 Sample : STD VMS 1 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:41 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_11.D\data.ms

(5) DICHLORODIFLUOROMETHANE (T,M)

1.796min (+0.006) 1.0302218 ppb m

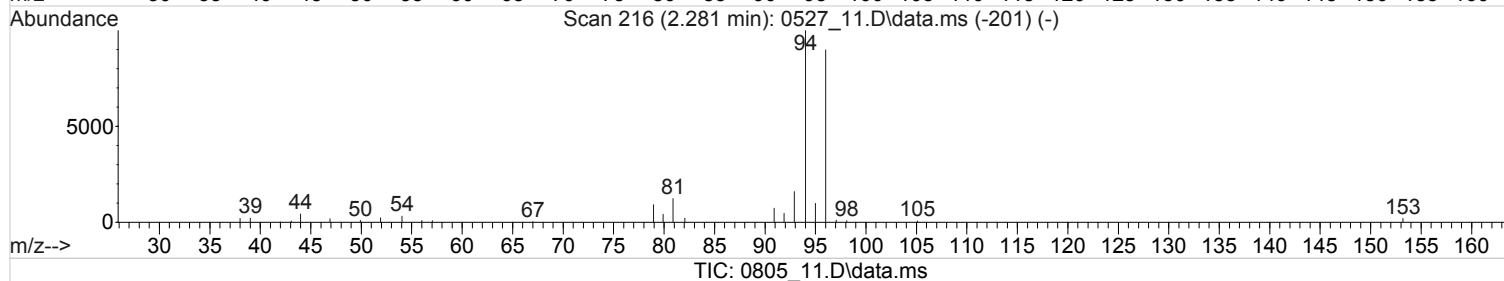
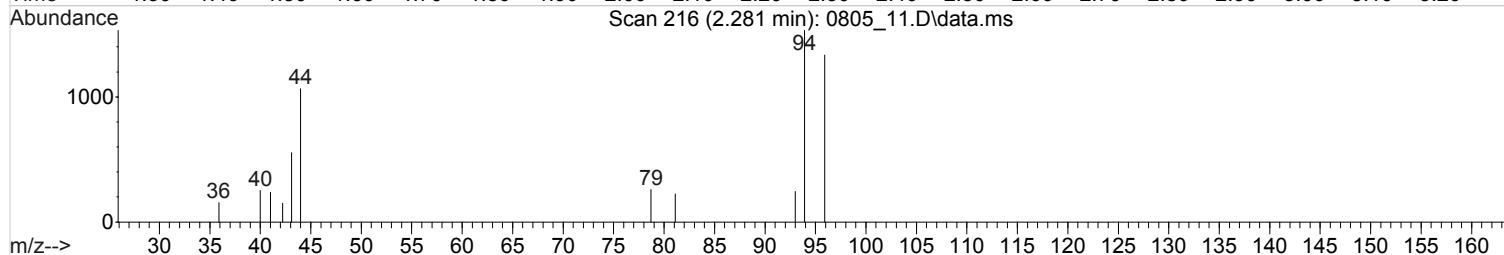
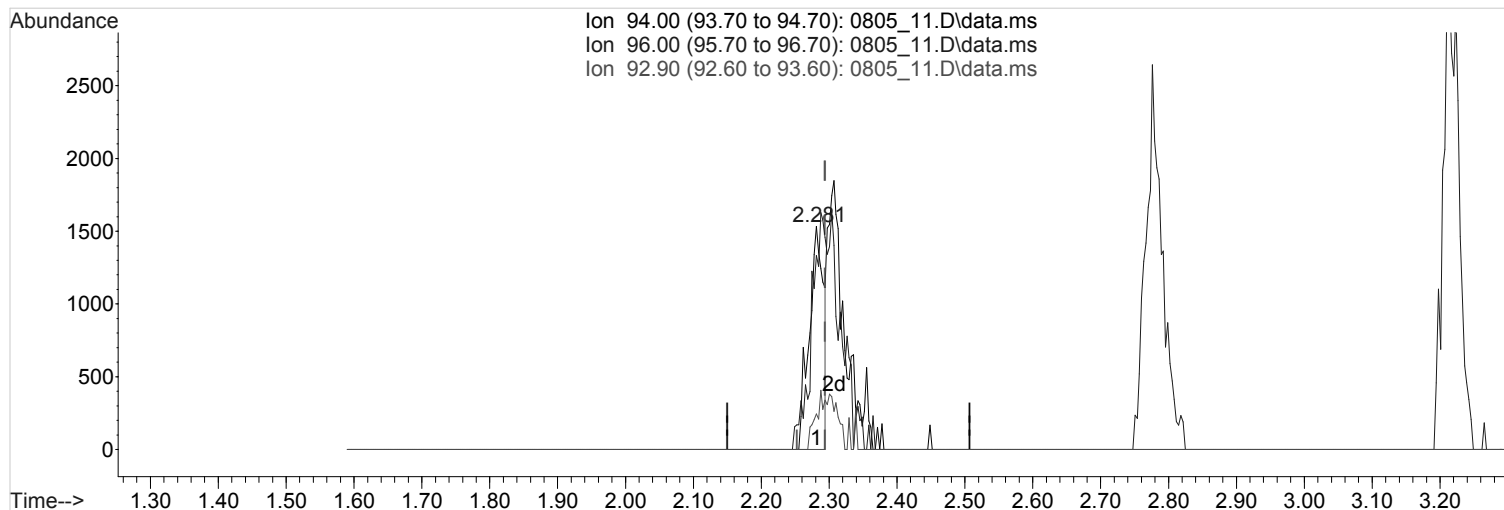
response 8244

Ion	Exp%	Act%
85.00	100	100
87.00	13.20	19.84#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_11.D
 Acq On : 5 Aug 2020 9:56 pm
 Operator : 988
 Sample : STD VMS 1 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:41 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



(9) BROMOMETHANE (T,M)

2.281min (-0.013) 0.4384638 ppb

Qvalue = 79

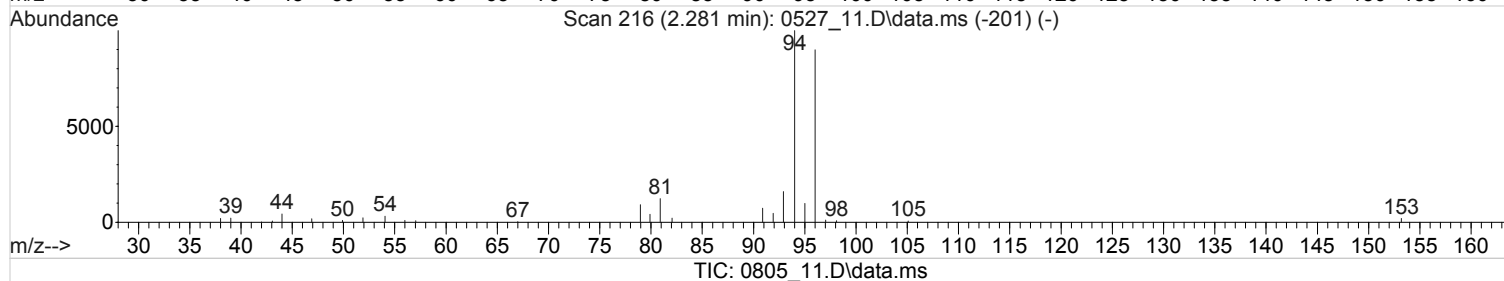
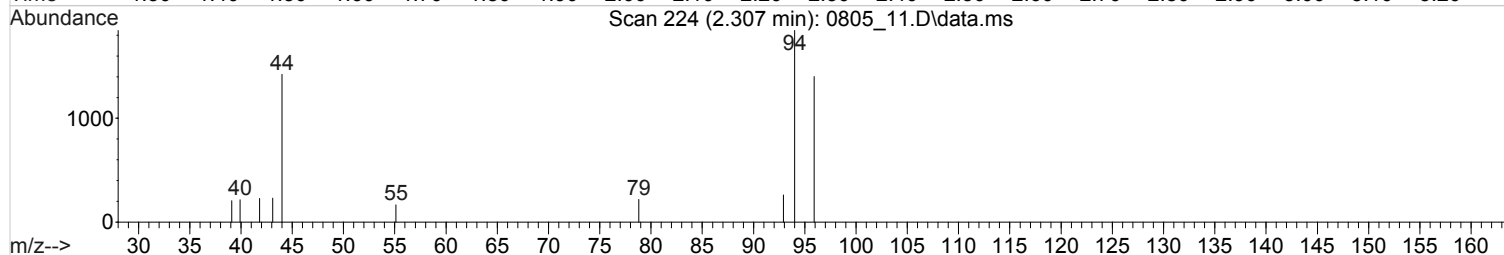
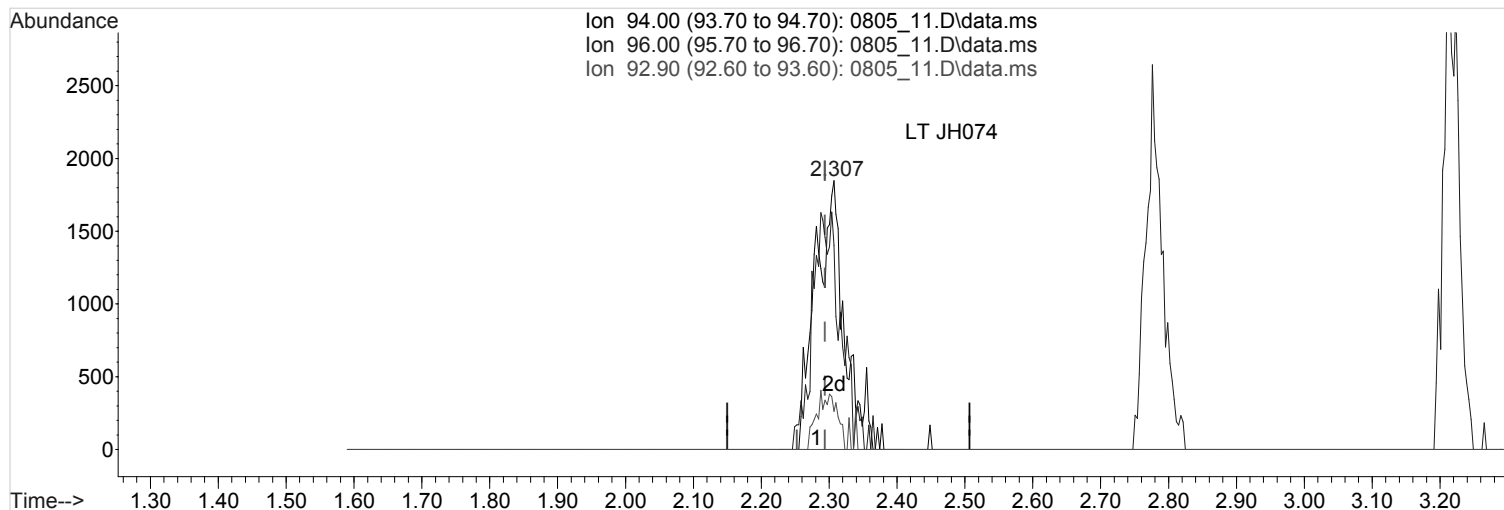
response 2230

Ion	Exp%	Act%
94.00	100	100
96.00	92.90	113.90#
92.90	9.10	14.39#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_11.D
 Acq On : 5 Aug 2020 9:56 pm
 Operator : 988
 Sample : STD VMS 1 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:41 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



(9) BROMOMETHANE (T,M)

2.307min (+0.013) 1.0888847 ppb m

response 5538

Ion	Exp%	Act%
-----	------	------

94.00	100	100
-------	-----	-----

96.00	92.90	45.86#
-------	-------	--------

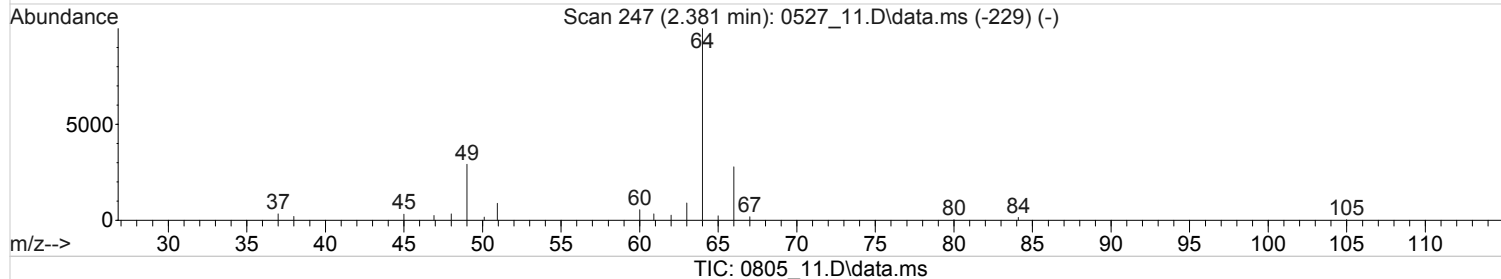
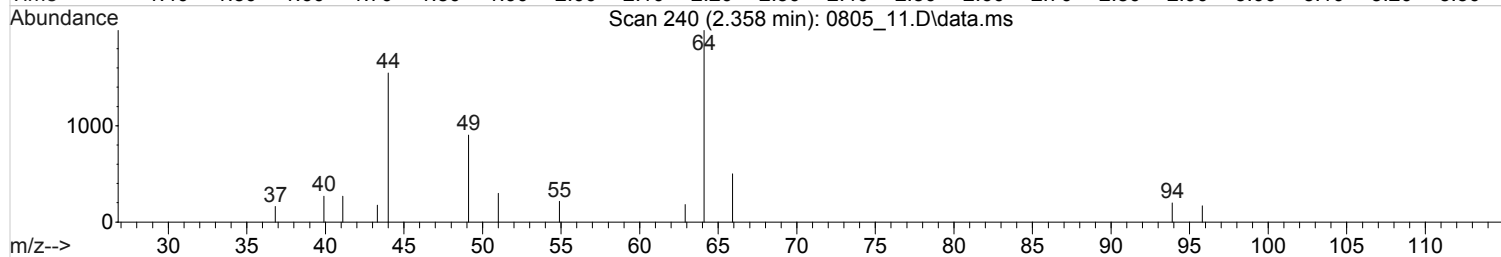
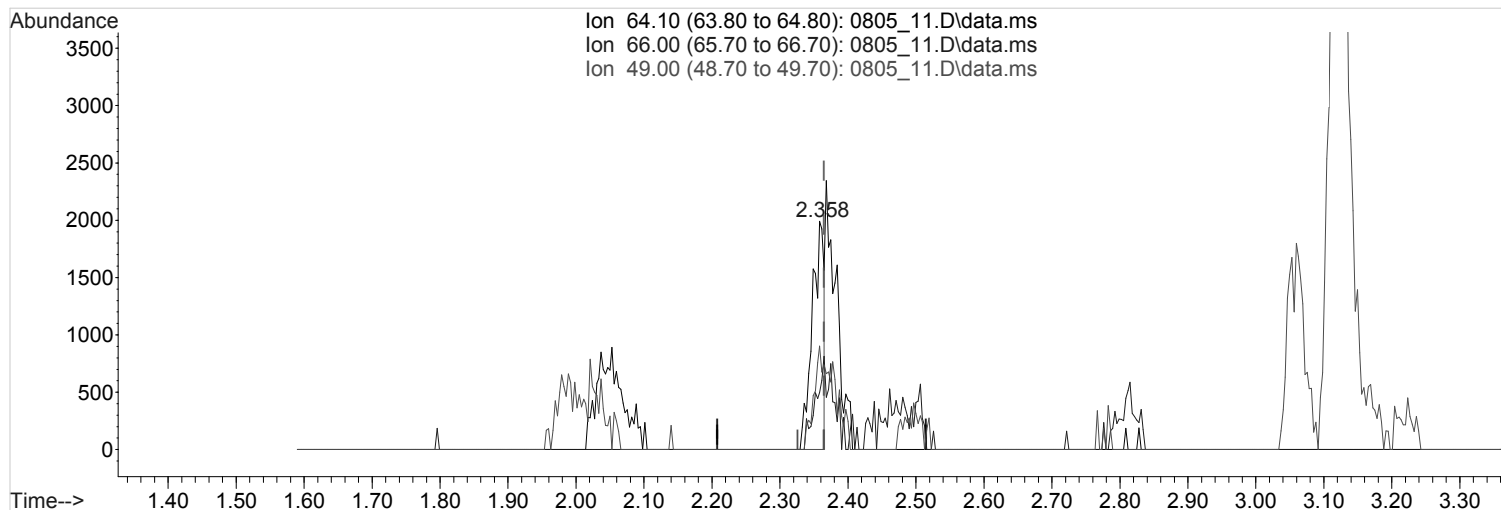
92.90	9.10	5.80#
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0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_11.D
 Acq On : 5 Aug 2020 9:56 pm
 Operator : 988
 Sample : STD VMS 1 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:41 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_11.D\data.ms

(10) CHLOROETHANE (T,M)

2.358min (-0.007) 0.4703864 ppb

Qvalue = 41

response 2384

Ion	Exp%	Act%
-----	------	------

64.10	100	100
-------	-----	-----

66.00	26.30	38.76#
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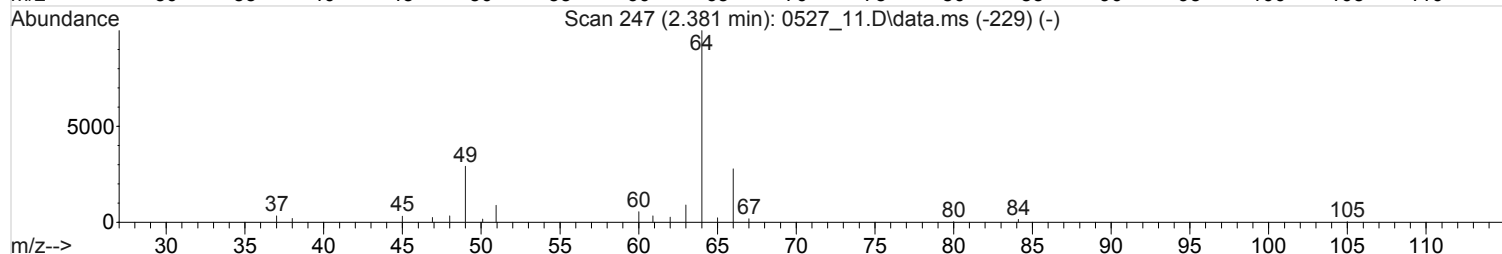
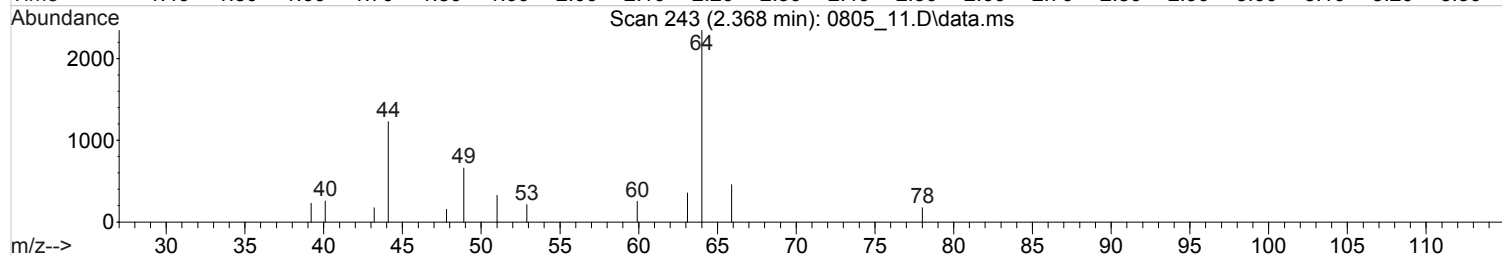
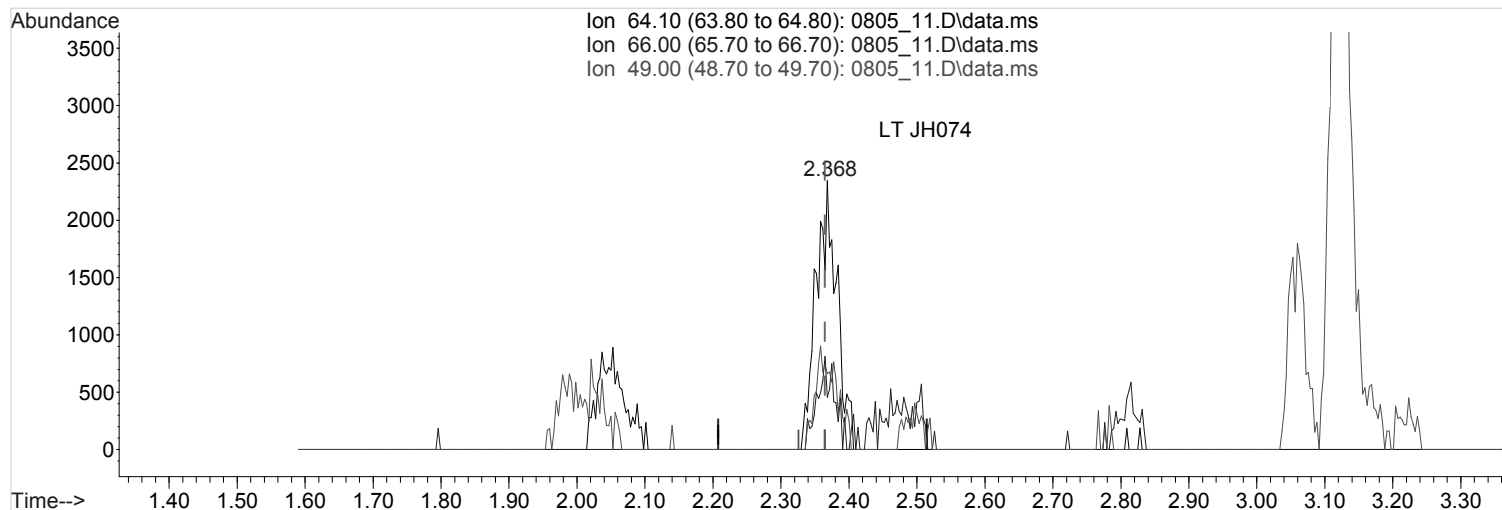
49.00	31.90	80.70#
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0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_11.D
 Acq On : 5 Aug 2020 9:56 pm
 Operator : 988
 Sample : STD VMS 1 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:41 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_11.D\data.ms

(10) CHLOROETHANE (T,M)

2.368min (+0.003) 0.9849701 ppb m

response 4992

Ion	Exp%	Act%
-----	------	------

64.10	100	100
-------	-----	-----

66.00	26.30	18.51#
-------	-------	--------

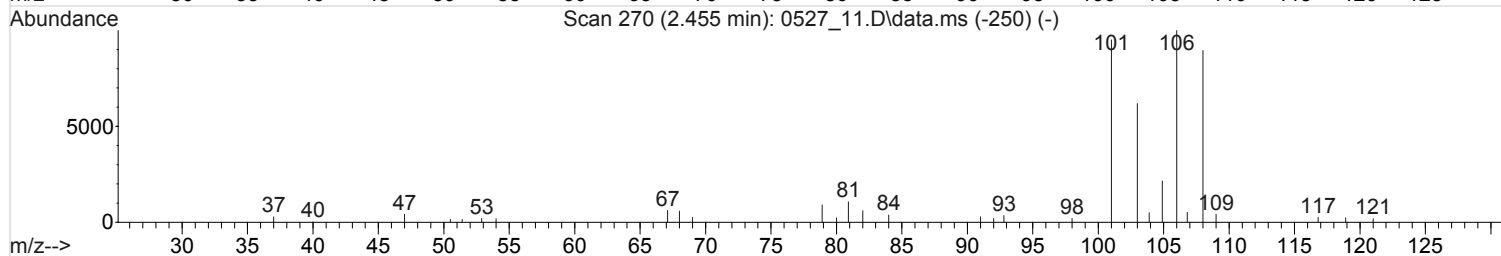
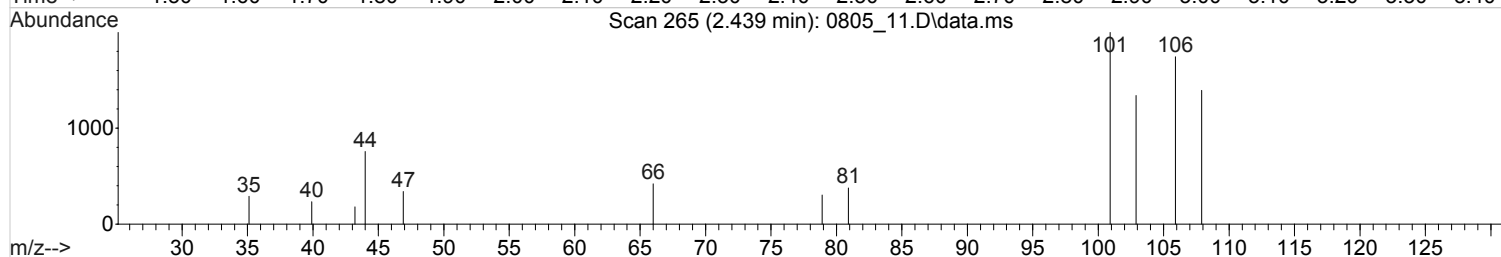
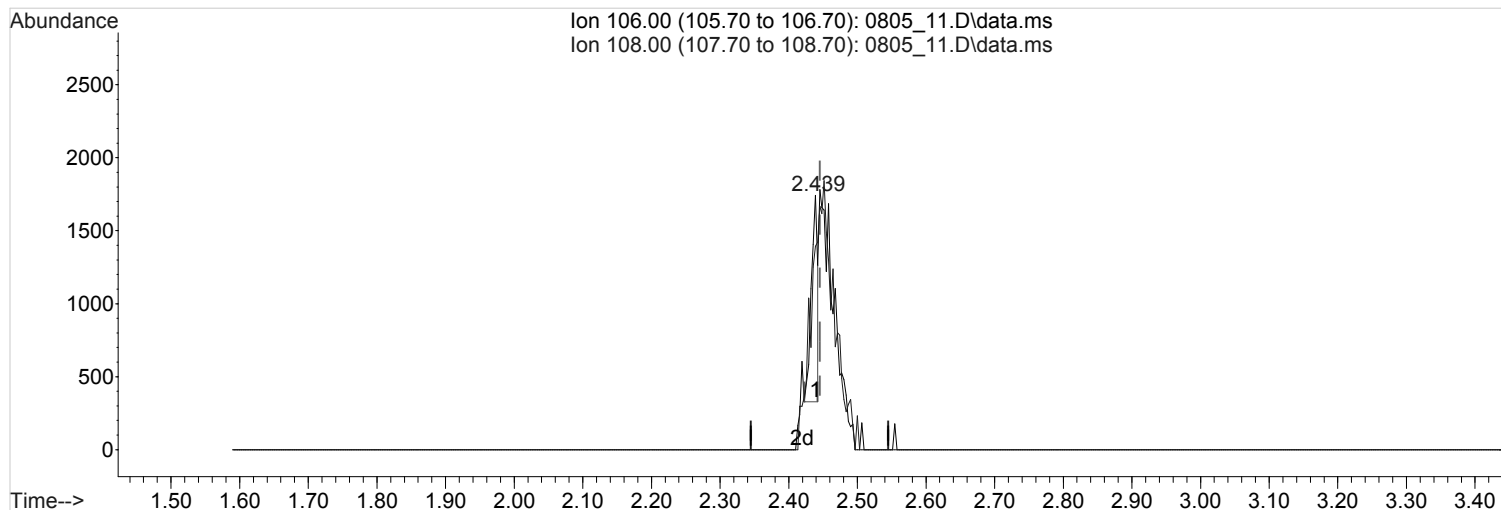
49.00	31.90	38.54#
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_11.D
 Acq On : 5 Aug 2020 9:56 pm
 Operator : 988
 Sample : STD VMS 1 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:41 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_11.D\data.ms

(11) VINYL BROMIDE (T,M)

2.439min (-0.007) 0.1963652 ppb

Qvalue = 1

response 884

Ion	Exp%	Act%
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106.00	100	100
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108.00	97.20	470.36#
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0.00	0.00	0.00
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0.00	0.00	0.00
------	------	------

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_12.D
 Acq On : 5 Aug 2020 10:15 pm
 Operator : 988
 Sample : STD VMS 2 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:21:39 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	380785	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.503	82	188329	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.976	152	117452	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.56
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.50
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.98
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.410	65	172326	17.3464214	ppb	0.00
Spiked Amount	16.000		Recovery	=	108.42%	
61) TOLUENE-D8	5.484	98	433443	18.3960435	ppb	0.00
Spiked Amount	16.000	Range	90 - 115	Recovery	=	114.98%
80) 4-BROMOFLUOROBENZENE	7.342	95	174384	17.9458148	ppb	0.00
Spiked Amount	16.000	Range	80 - 120	Recovery	=	112.16%
Target Compounds						
					Qvalue	
4) PROPENE	1.751	41	5588	1.8188043	ppb	93
5) DICHLORODIFLUOROMETHANE	1.793	85	15148m	1.9868516	ppb	
6) CHLOROMETHANE	1.969	50	18656m	1.8789252	ppb	
7) VINYL CHLORIDE	2.043	62	15111	1.8857650	ppb	# 88
8) 1,3-BUTADIENE	2.027	39	15248	1.9924228	ppb	93
9) BROMOMETHANE	2.294	94	10034	2.0707153	ppb	# 97
10) CHLOROETHANE	2.365	64	9452	1.9574450	ppb	# 89
11) VINYL BROMIDE	2.452	106	8503	1.9824480	ppb	99
12) TRICHLOROFLUOROMETHANE	2.458	101	18063m	1.8767080	ppb	
13) DICHLOROFLUOROMETHANE	2.497	67	26060	1.9600291	ppb	# 71
14) ETHYL ETHER	2.629	59	12860	1.7300363	ppb	97
15) ACROLEIN	2.982	56	662	6.0449233	ppb	# 70
16) ETHANOL	2.699	45	1114	88.6086479	ppb	# 95
17) 1,1-DICHLOROETHENE	2.780	96	7429	1.5943785	ppb	# 88
18) 1,1,2-TRICHLOROTRIFLUO...	2.809	101	8539	1.7367154	ppb	# 94
19) ACETONE	3.140	43	22347	9.7757512	ppb	89
20) IODOMETHANE	2.876	142	86961	9.6797130	ppb	# 97
21) CARBON DISULFIDE	2.812	76	27685	1.8403474	ppb	# 93
22) ALLYL CHLORIDE	3.056	76	29636	9.1925509	ppb	90
23) METHYLENE CHLORIDE	3.117	84	11797	1.8740186	ppb	93
24) METHYL ACETATE	3.198	43	79171	8.6503636	ppb	# 98
25) ACRYLONITRILE	3.587	53	44632	7.5856052	ppb	97
26) n-HEXANE	3.243	56	11030	1.7809052	ppb	# 77
27) TRANS-1,2-DICHLOROETHENE	3.214	96	9829	1.8336382	ppb	98
28) METHYL TERT-BUTYL ETHER	3.265	73	38731	1.8788140	ppb	92
29) TERT-BUTYL ALCOHOL	3.284	59	5440	7.9236838	ppb	# 100
30) 1,1-DICHLOROETHANE	3.564	63	25532	1.8502944	ppb	100
31) VINYL ACETATE	3.667	43	196708	9.2569092	ppb	99
32) DI-ISOPROPYL ETHER	3.452	45	58862	1.8670634	ppb	97
33) ETHYL TERT-BUTYL ETHER	3.661	59	51374	1.9139033	ppb	100
34) 2,2-DICHLOROPROPANE	3.924	77	15865	2.0169471	ppb	98
35) CIS-1,2-DICHLOROETHENE	3.860	96	12180	1.9384778	ppb	96
36) 2-BUTANONE (MEK)	4.159	43	65900	8.9046405	ppb	94
37) BROMOCHLOROMETHANE	3.969	130	7619	1.7829679	ppb	91
38) TETRAHYDROFURAN	4.101	42	9778	1.8204048	ppb	# 84
39) CHLOROFORM	3.998	83	24824	2.0089516	ppb	96
40) CYCLOHEXANE	3.989	84	15282	2.0027014	ppb	# 84
41) 1,1,1-TRICHLOROETHANE	4.137	97	18740	1.8096514	ppb	95

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_12.D
 Acq On : 5 Aug 2020 10:15 pm
 Operator : 988
 Sample : STD VMS 2 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:21:39 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
42) CARBON TETRACHLORIDE	4.101	117	15227	1.6287203	ppb	95
43) 1,1-DICHLOROPROPENE	4.194	75	15873	1.8836875	ppb	99
44) 2,2,4-TRIMETHYLPENTANE	4.236	57	45104	1.7731670	ppb	94
45) n-Heptane	4.272	71	7963	1.7675985	ppb	# 100
46) BENZENE	4.342	78	47004	1.8967387	ppb	98
47) TERT-AMYL METHYL ETHER	4.365	73	38872	1.9061457	ppb	97
49) 1,2-DICHLOROETHANE	4.452	62	22855	1.9278910	ppb	99
50) T-AMYL ALCOHOL	4.448	59	12743m	9.0385157	ppb	
51) TRICHLOROETHENE	4.664	132	11670	2.0397186	ppb	93
52) METHYL CYCLOHEXANE	4.670	83	16352	1.7903878	ppb	89
53) TERT-AMYL ETHYL ETHER	4.747	59	38626	1.9263012	ppb	99
54) 1,2-DICHLOROPROPANE	4.972	62	10540	1.8904386	ppb	96
55) DIBROMOMETHANE	4.915	93	8333	1.9331210	ppb	96
56) BROMODICHLOROMETHANE	4.992	83	18656	1.9350369	ppb	99
57) 2-CHLOROETHYL VINYL ETHER	5.300	63	65229	9.4040605	ppb	99
58) CIS-1,3-DICHLOROPROPENE	5.365	75	20900	1.9371476	ppb	# 98
60) 4-METHYL-2-PENTANONE (...)	5.728	43	147562	8.6664493	ppb	100
62) TOLUENE	5.516	91	50475	1.9776317	ppb	99
63) TRANS-1,3-DICHLOROPROPENE	5.763	75	20178	1.8364812	ppb	99
64) 1,1,2-TRICHLOROETHANE	5.870	97	11263	1.9867216	ppb	99
65) TETRACHLOROETHENE	5.773	164	9985	1.9977553	ppb	98
66) 1,3-DICHLOROPROPANE	6.059	76	20602	1.8758389	ppb	99
67) 2-HEXANONE	6.268	58	53089	8.3620400	ppb	100
68) CHLORODIBROMOMETHANE	5.998	129	13137	1.9529598	ppb	98
69) 1,2-DIBROMOETHANE	6.181	107	12553	1.9010642	ppb	99
70) CHLOROBENZENE	6.516	112	30304	1.9676378	ppb	92
71) 1,1,1,2-TETRACHLOROETHANE	6.548	133	11680	2.0238423	ppb	# 20
72) ETHYLBENZENE	6.509	106	16669	1.9310116	ppb	99
73) M&P-XYLENE	6.609	106	40064	3.7054680	ppb	98
74) O-XYLENE	6.911	106	20254	1.9125559	ppb	96
77) STYRENE	6.953	104	33061	1.9242725	ppb	99
78) BROMOFORM	6.992	173	10160	1.8597638	ppb	98
79) ISOPROPYLBENZENE	7.127	105	54144	1.9222770	ppb	99
82) BROMOBENZENE	7.419	77	25928	1.9482348	ppb	99
83) 1,1,2,2-TETRACHLOROETHANE	7.455	83	17494	1.8627764	ppb	99
84) 1,2,3-TRICHLOROPROPANE	7.564	110	5914	1.8946133	ppb	90
85) TRANS-1,4-DICHLORO-2-B...	7.577	53	6559	1.8798106	ppb	# 93
86) N-PROPYLBENZENE	7.410	91	63230	1.9771474	ppb	99
87) 4-ETHYLTOLUENE	7.477	105	53060	1.9237347	ppb	99
88) 2-CHLOROTOLUENE	7.535	91	43603	1.9526658	ppb	# 95
89) 4-CHLOROTOLUENE	7.641	91	39107	1.8858028	ppb	99
90) 1,3,5-TRIMETHYLBENZENE	7.535	105	45476	1.9484673	ppb	100
91) TERT-BUTYLBENZENE	7.744	119	33423	1.9203901	ppb	99
92) 1,2,4-TRIMETHYLBENZENE	7.779	105	42318	1.9220361	ppb	98
93) SEC-BUTYLBENZENE	7.837	105	47242	1.9398831	ppb	99
94) 1,3-DICHLOROBENZENE	7.950	146	18423	1.9038766	ppb	100
95) P-ISOPROPYLTOLUENE	7.895	119	38635	1.9571345	ppb	99
96) DICYCLOPENTADIENE	7.905	66	53946	1.9558986	ppb	99
97) 1,4-DICHLOROBENZENE	7.982	146	17889	1.8932431	ppb	# 1
98) 1,2,3-TRIMETHYLBENZENE	7.982	105	29341	1.9199816	ppb	96
99) 1,2-DICHLOROBENZENE	8.140	146	16118	1.9329381	ppb	97
100) N-BUTYLBENZENE	8.062	91	30622	1.8762415	ppb	99
101) 1,2-DIBROMO-3-CHLOROPR...	8.435	157	3474	1.8773251	ppb	95
102) 1,3,5-TRICHLOROBENZENE	8.445	180	10815	1.9353586	ppb	97
103) 1,2,4-TRICHLOROBENZENE	8.709	180	8786	1.8347664	ppb	88

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_12.D
Acq On : 5 Aug 2020 10:15 pm
Operator : 988
Sample : STD VMS 2 ppb 20H05877
Misc : water IS/SURR20G06381
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS38

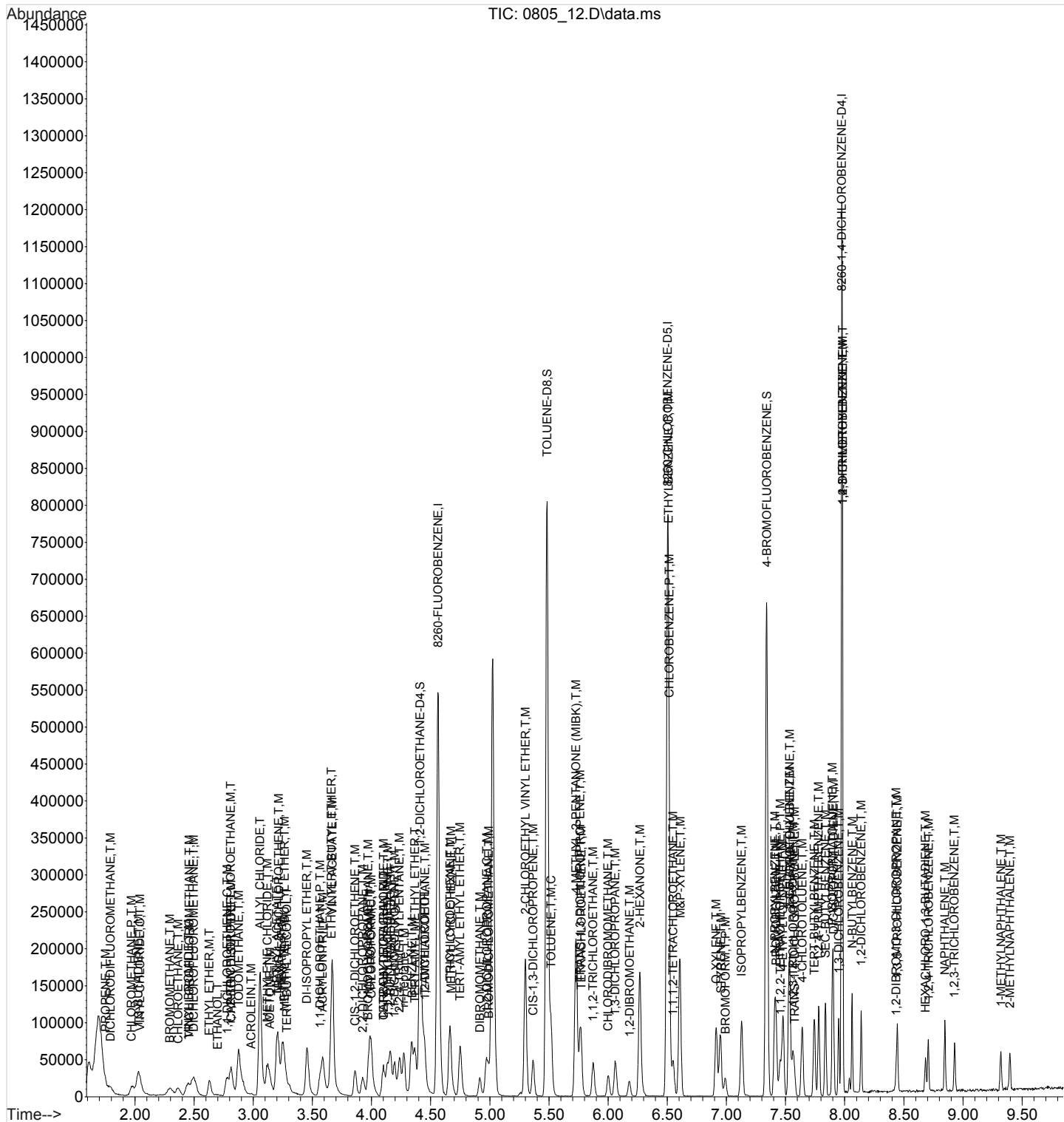
Quant Time: Aug 06 10:21:39 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 10:09:56 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
104) HEXACHLORO-1,3-BUTADIENE	8.683	225	4365	2.2364282	ppb	97
105) NAPHTHALENE	8.847	128	30557	1.7760900	ppb	97
106) 1,2,3-TRICHLOROBENZENE	8.927	180	8656	1.9795518	ppb	95
107) 1-METHYLNAPHTHALENE	9.320	142	11969	1.8711201	ppb	97
108) 2-METHYLNAPHTHALENE	9.397	142	10546	1.7617723	ppb	96

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

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_12.D
Acq On : 5 Aug 2020 10:15 pm
Operator : 988
Sample : STD VMS 2 ppb 20H05877
Misc : water IS/SURR20G06381
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS38

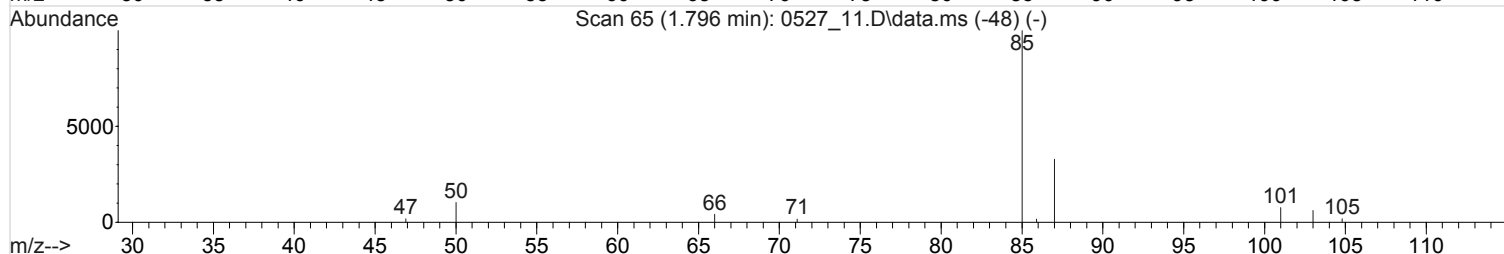
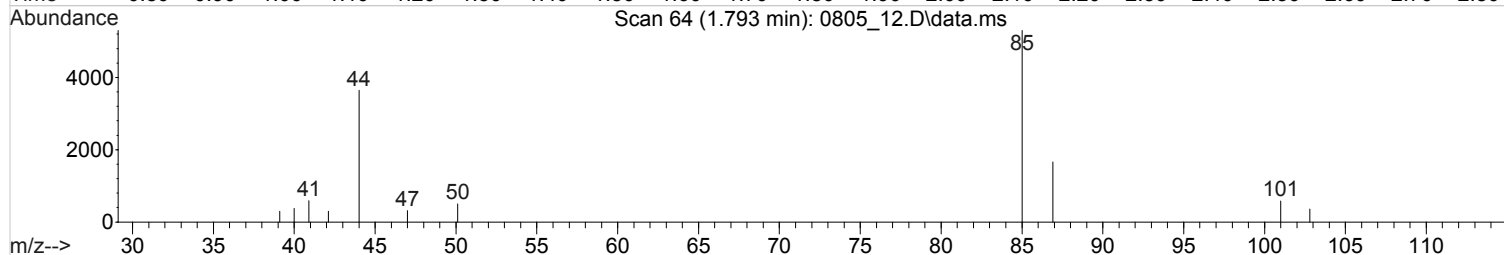
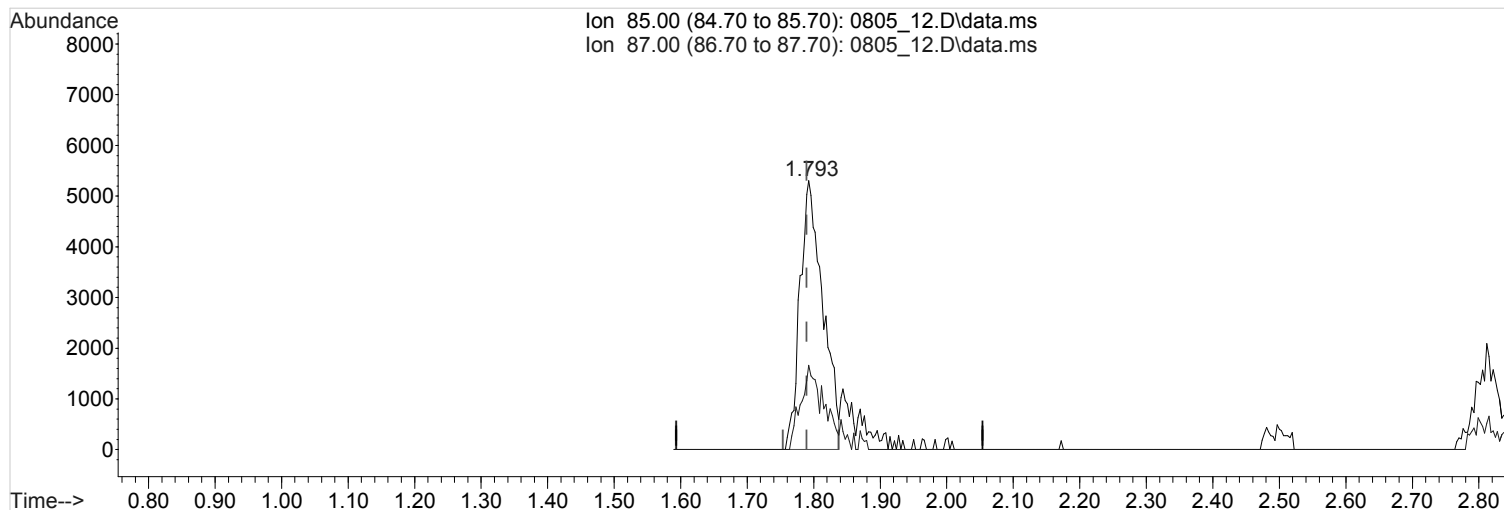
Quant Time: Aug 06 10:21:39 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 10:09:56 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_12.D
 Acq On : 5 Aug 2020 10:15 pm
 Operator : 988
 Sample : STD VMS 2 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:46 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_12.D\data.ms

(5) DICHLORODIFLUOROMETHANE (T,M)

1.793min (+0.003) 1.6639292 ppb

Qvalue = 78

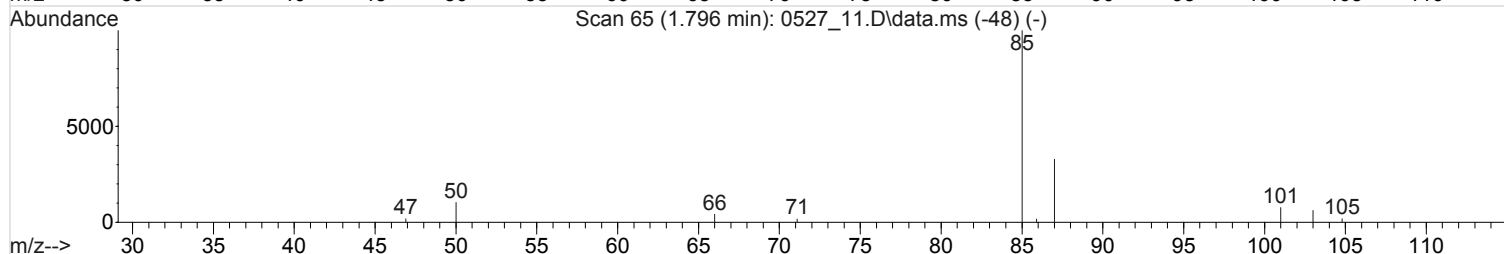
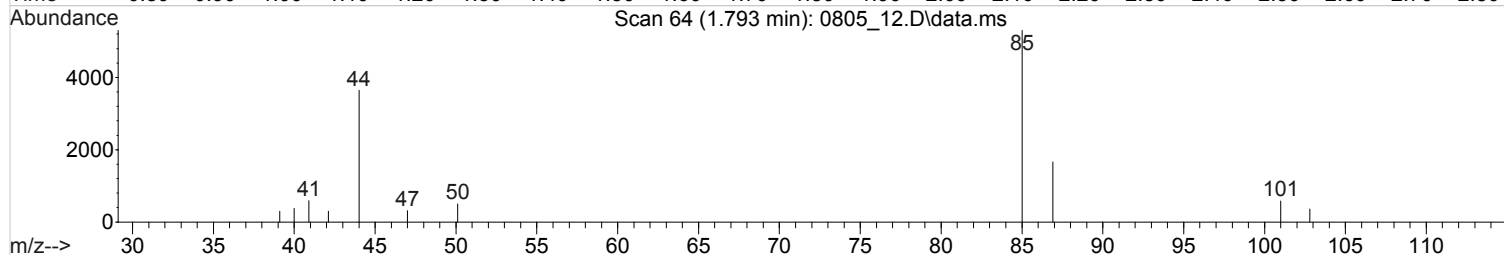
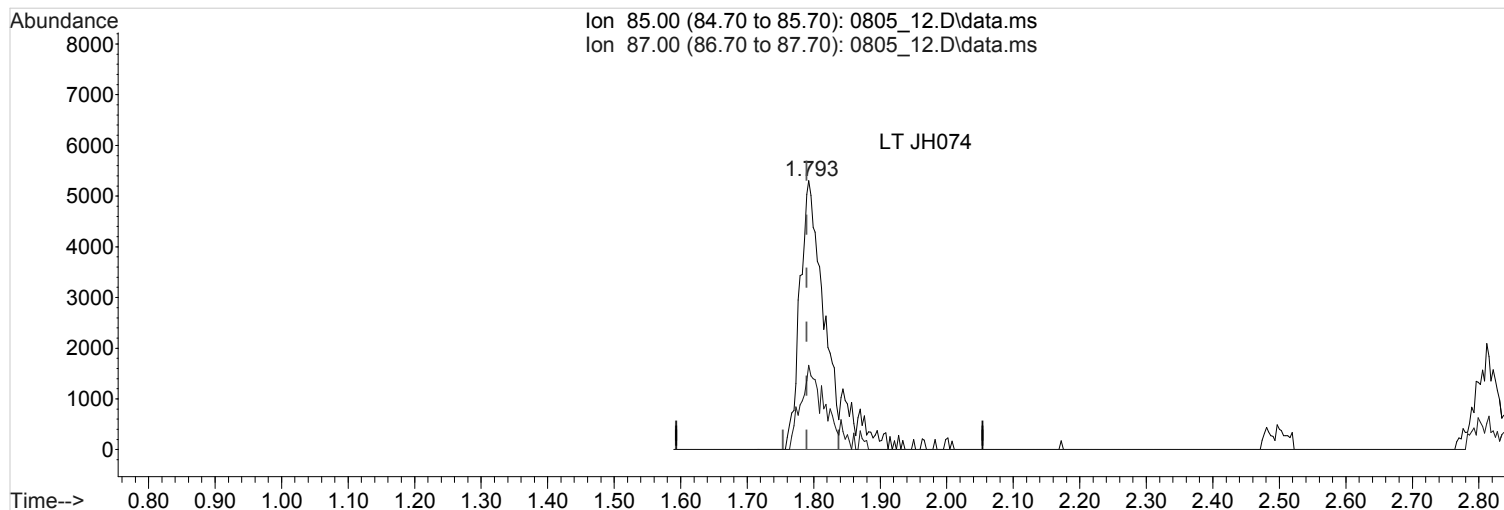
response 12686

Ion	Exp%	Act%
85.00	100	100
87.00	13.20	21.83#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_12.D
 Acq On : 5 Aug 2020 10:15 pm
 Operator : 988
 Sample : STD VMS 2 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:46 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_12.D\data.ms

(5) DICHLORODIFLUOROMETHANE (T,M)

1.793min (+0.003) 1.9868516 ppb m

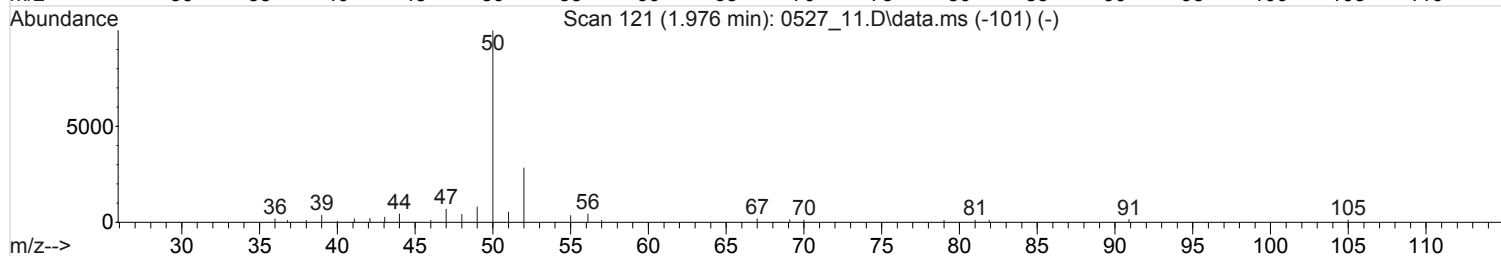
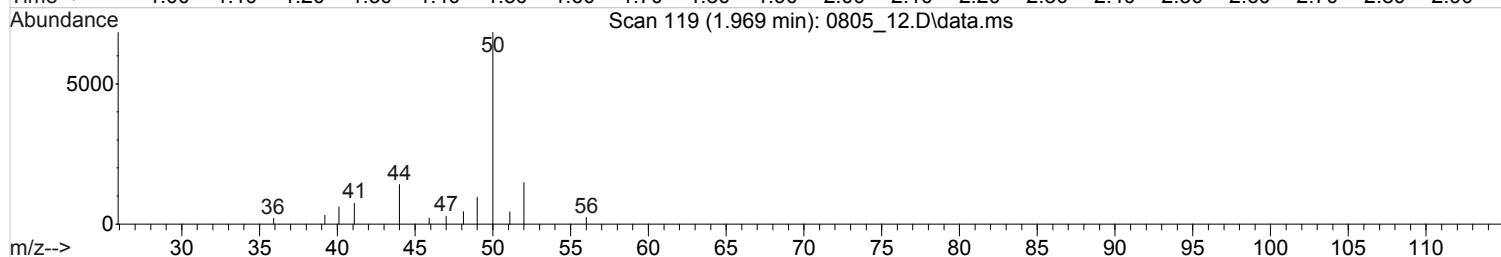
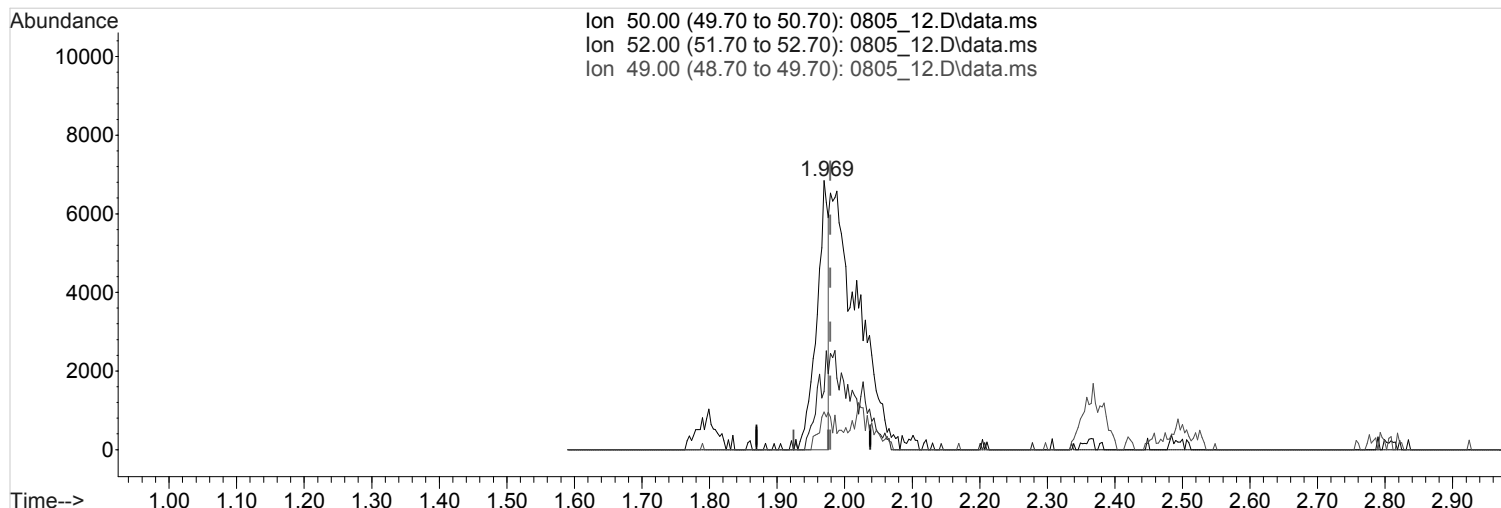
response 15148

Ion	Exp%	Act%
85.00	100	100
87.00	13.20	18.28#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_12.D
 Acq On : 5 Aug 2020 10:15 pm
 Operator : 988
 Sample : STD VMS 2 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:46 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_12.D\data.ms

(6) CHLOROMETHANE (P,T,M)

1.969min (-0.010) 0.8261591 ppb

Qvalue = 69

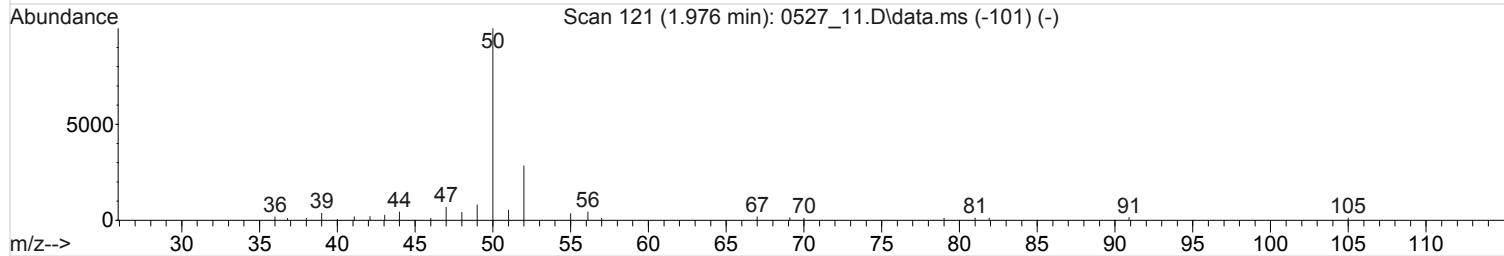
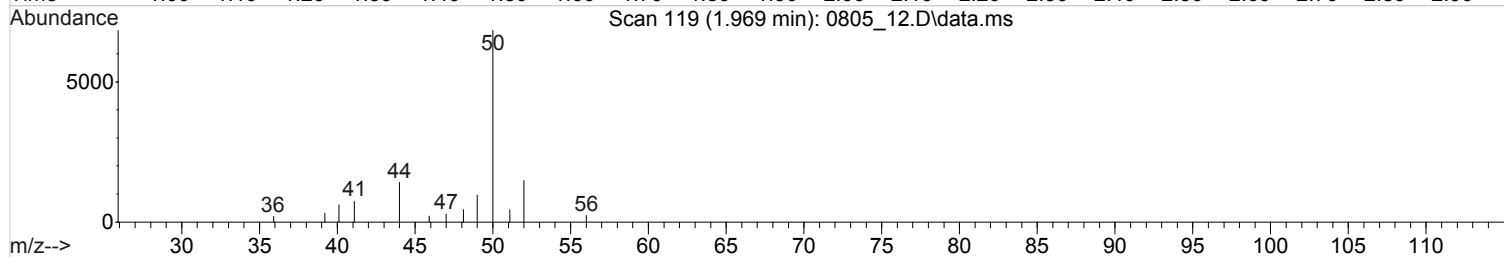
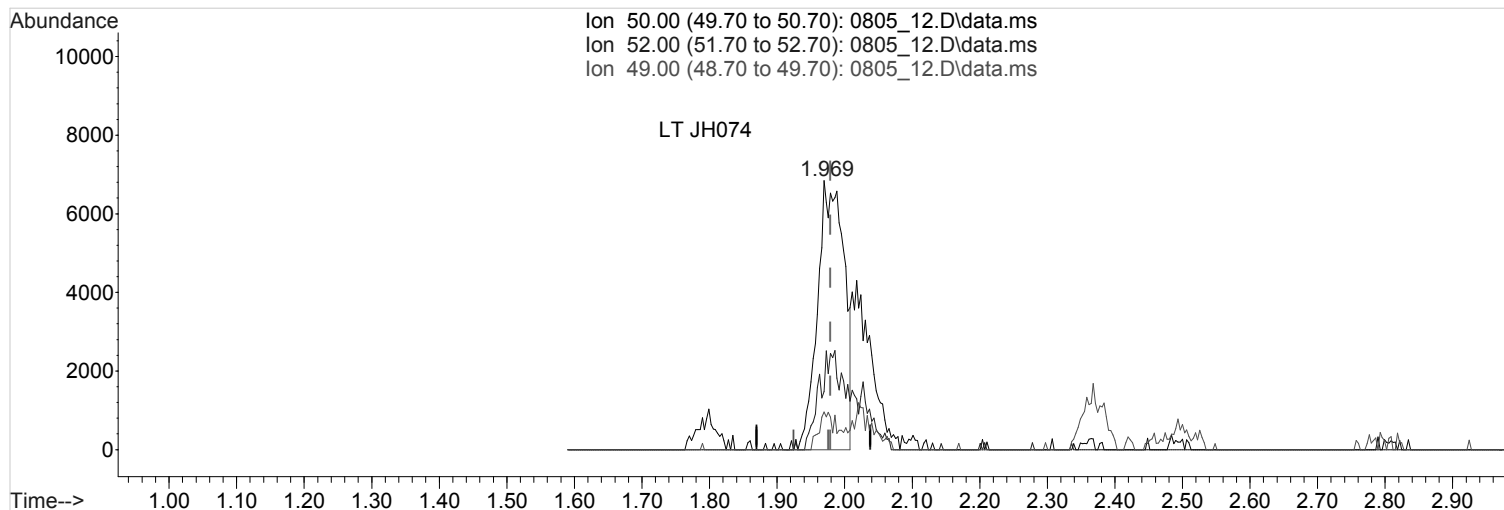
response 8203

Ion	Exp%	Act%
50.00	100	100
52.00	36.90	18.23#
49.00	5.60	14.91#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_12.D
 Acq On : 5 Aug 2020 10:15 pm
 Operator : 988
 Sample : STD VMS 2 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:46 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_12.D\data.ms

(6) CHLOROMETHANE (P,T,M)

1.969min (-0.010) 1.8789252 ppb m

response 18656

Ion	Exp%	Act%
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50.00	100	100
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52.00	36.90	8.01#
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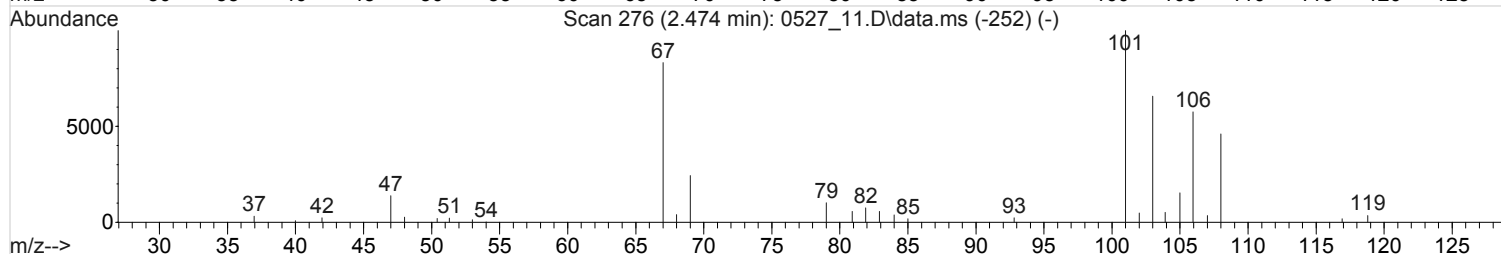
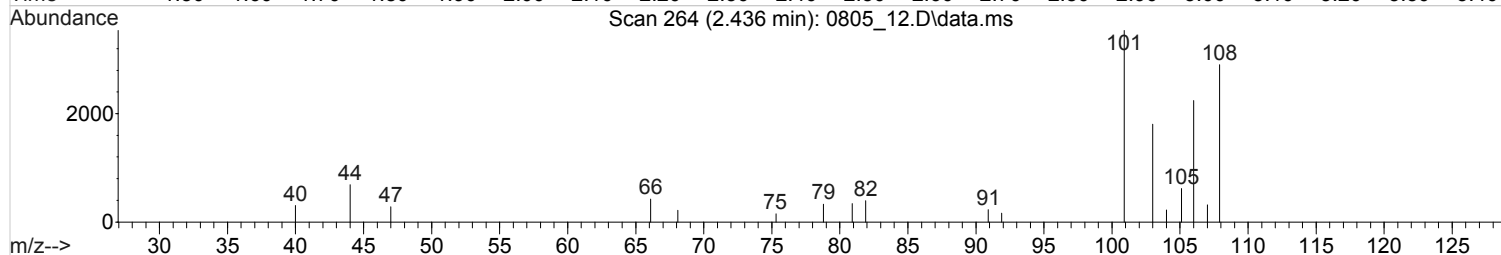
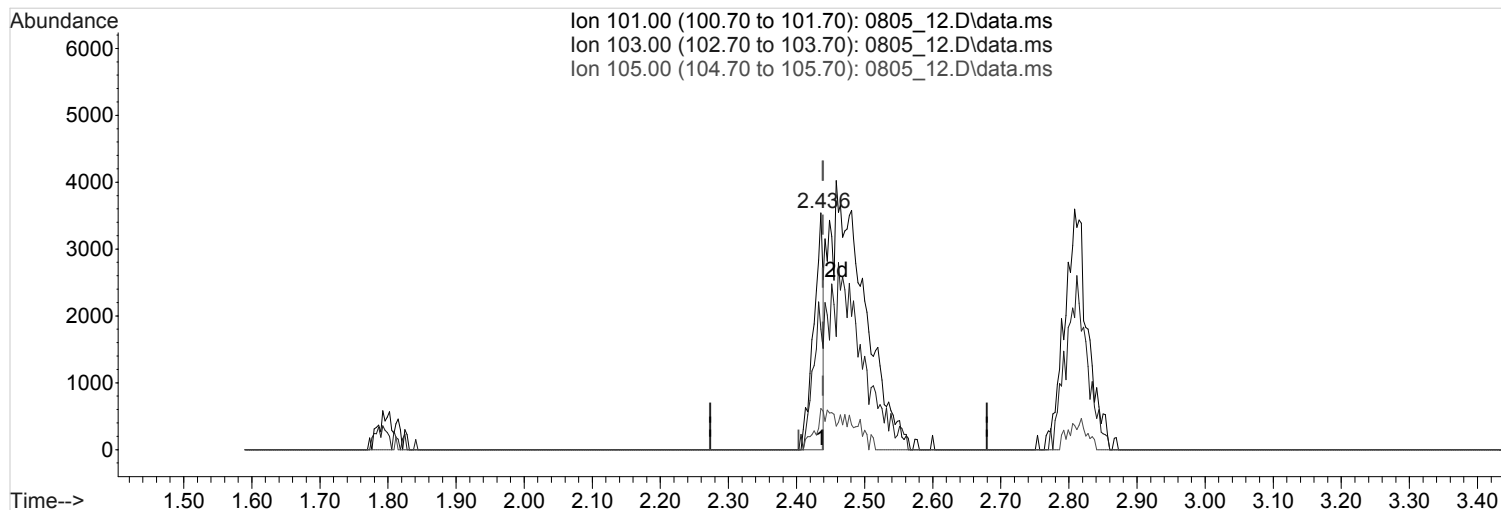
49.00	5.60	6.56
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_12.D
 Acq On : 5 Aug 2020 10:15 pm
 Operator : 988
 Sample : STD VMS 2 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:46 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_12.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.436min (-0.003) 0.3498243 ppb

Qvalue = 5

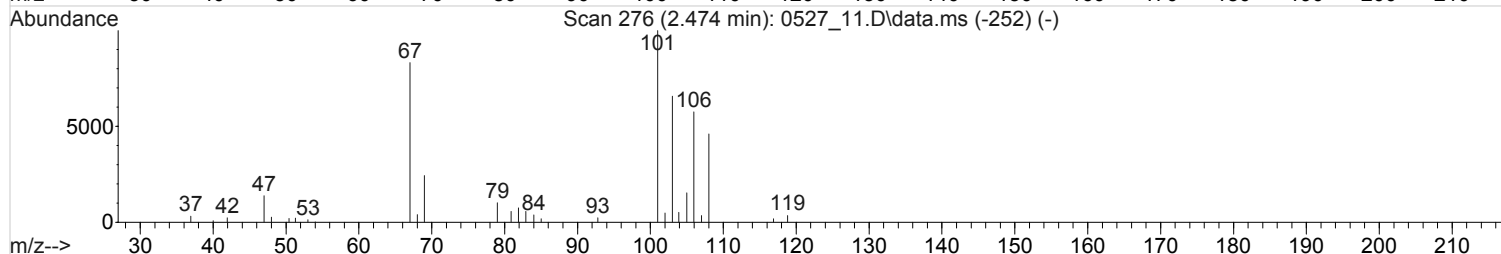
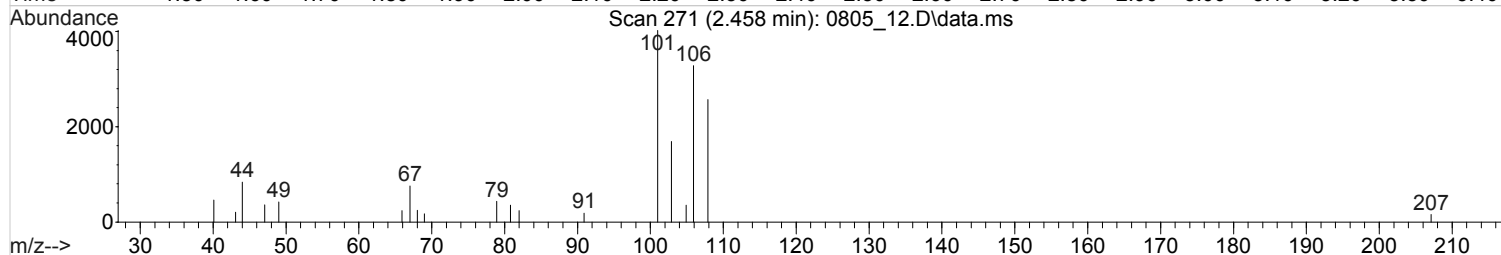
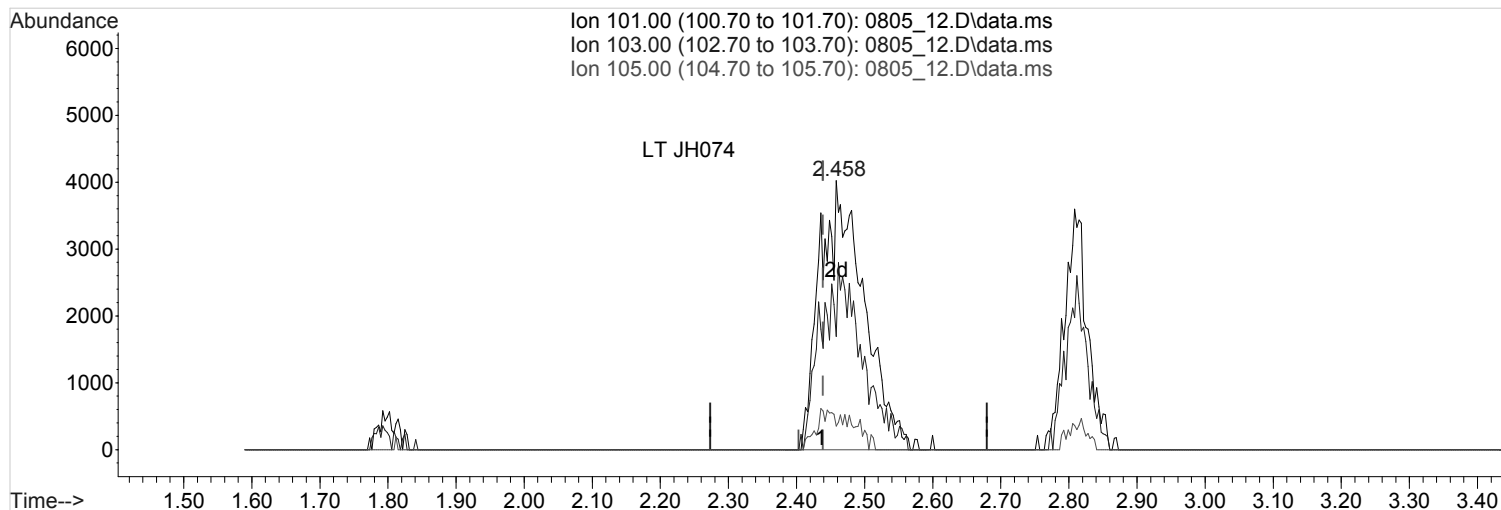
response 3367

Ion	Exp%	Act%
101.00	100	100
103.00	17.10	64.15#
105.00	4.20	18.35#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_12.D
 Acq On : 5 Aug 2020 10:15 pm
 Operator : 988
 Sample : STD VMS 2 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:46 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_12.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.458min (+0.019) 1.8767080 ppb m

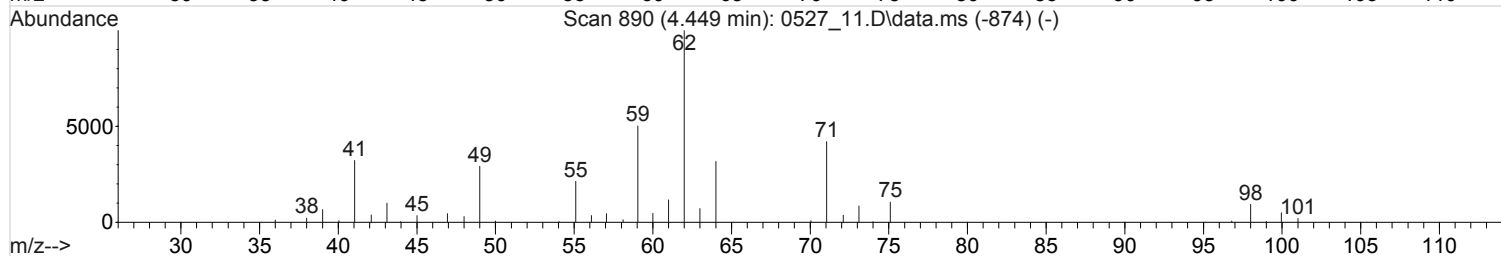
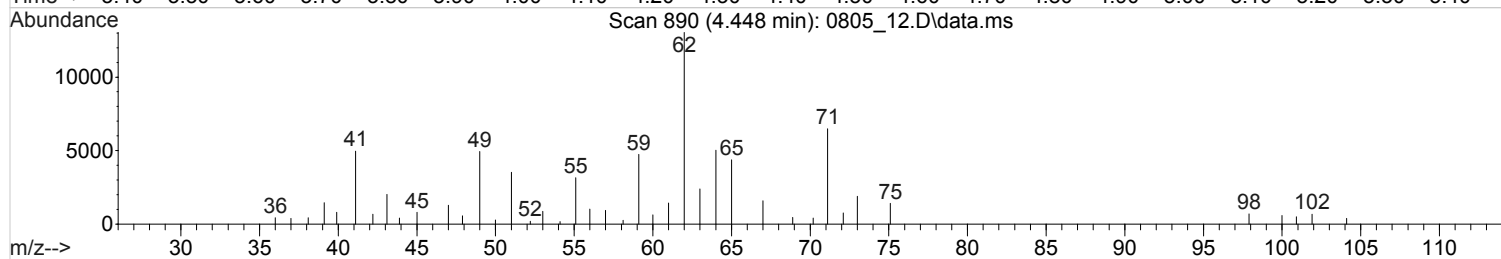
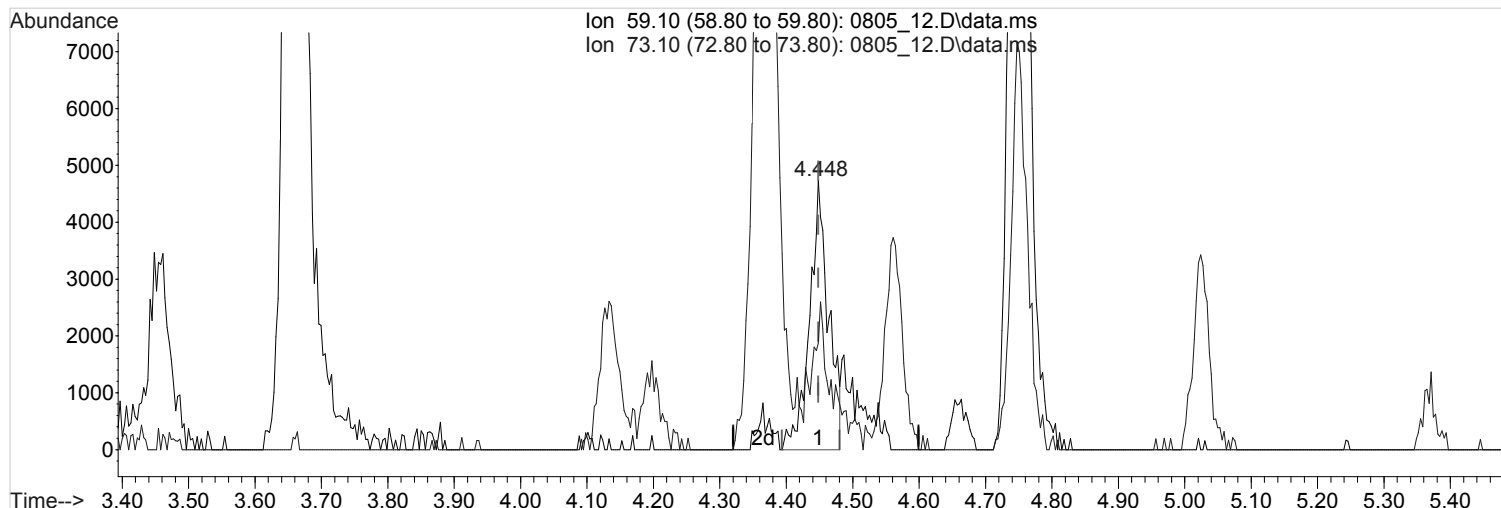
response 18063

Ion	Exp%	Act%
101.00	100	100
103.00	17.10	11.96#
105.00	4.20	3.42
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_12.D
 Acq On : 5 Aug 2020 10:15 pm
 Operator : 988
 Sample : STD VMS 2 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:46 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_12.D\data.ms

(50) T-AMYL ALCOHOL (T)

4.448min (0.000) 6.6758621 ppb

Qvalue = 86

response 9412

Ion	Exp%	Act%
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59.10	100	100
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73.10	22.30	28.86#
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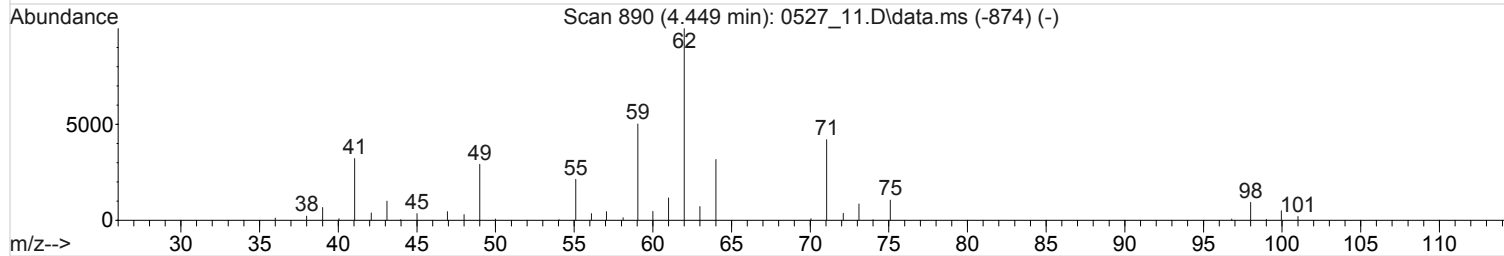
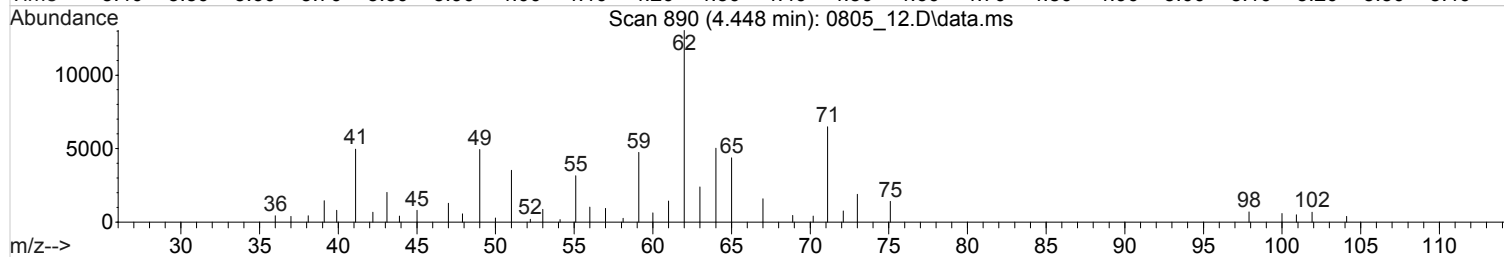
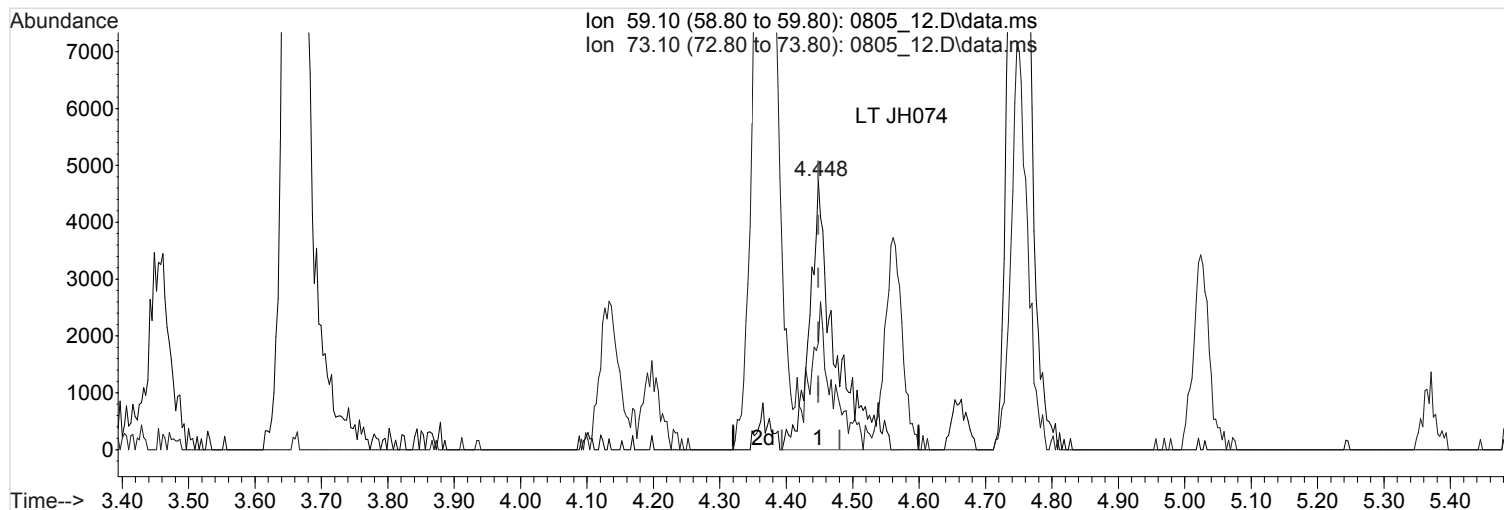
0.00	0.00	0.00
------	------	------

0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_12.D
 Acq On : 5 Aug 2020 10:15 pm
 Operator : 988
 Sample : STD VMS 2 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:46 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_12.D\data.ms

(50) T-AMYL ALCOHOL (T)

4.448min (0.000) 9.0385157 ppb m

response 12743

Ion	Exp%	Act%
59.10	100	100
73.10	22.30	21.31
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_13.D
 Acq On : 5 Aug 2020 10:34 pm
 Operator : 988
 Sample : MSTD VMS 5.0 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:23:13 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration

Compound			R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards								
1)	8260-FLUOROBENZENE		4.564	96	382477	16.0000000	ppb	0.00
59)	8260-CHLOROBENZENE-D5		6.503	82	192643	16.0000000	ppb	0.00
81)	8260-1,4-DICHLOROBENZENE...		7.976	152	121317	16.0000000	ppb	0.00
109)	AP9-FLUOROBENZENE		0.000	96	0m	16.0000000	ppb	-4.56
123)	AP9-CHLOROBENZENE-D5		0.000	82	0m	16.0000000	ppb	-6.50
127)	AP9-1,4-DICHLOROBENZENE...		0.000	152	0m	16.0000000	ppb	-7.98
System Monitoring Compounds								
48)	1,2-DICHLOROETHANE-D4		4.410	65	189592	19.0000000	ppb	0.00
	Spiked Amount	16.000			Recovery	=	118.75%	
61)	TOLUENE-D8		5.484	98	457928	19.0000000	ppb	0.00
	Spiked Amount	16.000	Range	90 - 115	Recovery	=	118.75%#	
80)	4-BROMOFLUOROBENZENE		7.339	95	188857	19.0000000	ppb	0.00
	Spiked Amount	16.000	Range	80 - 120	Recovery	=	118.75%	
Target Compounds								Qvalue
4)	PROPENE		1.754	41	15430	5.0000000	ppb	100
5)	DICHLORODIFLUOROMETHANE		1.789	85	38290	5.0000000	ppb	100
6)	CHLOROMETHANE		1.979	50	49866	5.0000000	ppb	100
7)	VINYL CHLORIDE		2.053	62	40244	5.0000000	ppb	100
8)	1,3-BUTADIENE		2.027	39	38435	5.0000000	ppb	100
9)	BROMOMETHANE		2.294	94	24336	5.0000000	ppb	100
10)	CHLOROETHANE		2.365	64	24251	5.0000000	ppb	100
11)	VINYL BROMIDE		2.445	106	21541	5.0000000	ppb	100
12)	TRICHLOROFLUOROMETHANE		2.439	101	48342m	5.0004138	ppb	
13)	DICHLOROFLUOROMETHANE		2.493	67	66774	5.0000000	ppb	100
14)	ETHYL ETHER		2.632	59	37332	5.0000000	ppb	100
15)	ACROLEIN		2.976	56	2750m	25.0000000	ppb	
16)	ETHANOL		2.699	45	3157	250.0000000	ppb	# 100
17)	1,1-DICHLOROETHENE		2.773	96	23401	5.0000000	ppb	100
18)	1,1,2-TRICHLOROTRIFLUO...		2.812	101	24693	5.0000000	ppb	100
19)	ACETONE		3.143	43	57403	25.0000000	ppb	100
20)	IODOMETHANE		2.879	142	225594	25.0000000	ppb	100
21)	CARBON DISULFIDE		2.812	76	75551	5.0000000	ppb	100
22)	ALLYL CHLORIDE		3.056	76	80956	25.0000000	ppb	100
23)	METHYLENE CHLORIDE		3.120	84	31615	5.0000000	ppb	100
24)	METHYL ACETATE		3.198	43	229825	25.0000000	ppb	# 100
25)	ACRYLONITRILE		3.587	53	147746m	24.9996616	ppb	
26)	n-HEXANE		3.246	56	31105	5.0000000	ppb	# 100
27)	TRANS-1,2-DICHLOROETHENE		3.211	96	26921	5.0000000	ppb	100
28)	METHYL TERT-BUTYL ETHER		3.262	73	103531	5.0000000	ppb	100
29)	TERT-BUTYL ALCOHOL		3.281	59	17240	25.0000000	ppb	# 100
30)	1,1-DICHLOROETHANE		3.561	63	69301	5.0000000	ppb	100
31)	VINYL ACETATE		3.670	43	533607	25.0000000	ppb	100
32)	DI-ISOPROPYL ETHER		3.455	45	158333	5.0000000	ppb	100
33)	ETHYL TERT-BUTYL ETHER		3.661	59	134809	5.0000000	ppb	100
34)	2,2-DICHLOROPROPANE		3.928	77	39504	5.0000000	ppb	100
35)	CIS-1,2-DICHLOROETHENE		3.857	96	31556	5.0000000	ppb	100
36)	2-BUTANONE (MEK)		4.159	43	188690	25.3836675	ppb	99
37)	BROMOCHLOROMETHANE		3.976	130	21461	5.0000000	ppb	100
38)	TETRAHYDROFURAN		4.101	42	26976	5.0000000	ppb	100
39)	CHLOROFORM		3.998	83	62058	5.0000000	ppb	100
40)	CYCLOHEXANE		3.992	84	38323	5.0000000	ppb	100
41)	1,1,1-TRICHLOROETHANE		4.133	97	52008	5.0000000	ppb	100

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_13.D
 Acq On : 5 Aug 2020 10:34 pm
 Operator : 988
 Sample : MSTD VMS 5.0 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:23:13 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
42) CARBON TETRACHLORIDE	4.098	117	45415	4.8362192	ppb	100
43) 1,1-DICHLOROPROPENE	4.194	75	42320	5.0000000	ppb	100
44) 2,2,4-TRIMETHYLPENTANE	4.236	57	127750	5.0000000	ppb	100
45) n-Heptane	4.278	71	22625	5.0000000	ppb	# 100
46) BENZENE	4.339	78	124458	5.0000000	ppb	100
47) TERT-AMYL METHYL ETHER	4.368	73	102418	5.0000000	ppb	100
49) 1,2-DICHLOROETHANE	4.452	62	59538	5.0000000	ppb	100
50) T-AMYL ALCOHOL	4.448	59	35403	25.0000000	ppb	100
51) TRICHLOROETHENE	4.661	132	28734	5.0000000	ppb	100
52) METHYL CYCLOHEXANE	4.664	83	45869	5.0000000	ppb	100
53) TERT-AMYL ETHYL ETHER	4.751	59	100705	5.0000000	ppb	100
54) 1,2-DICHLOROPROPANE	4.969	62	28001	5.0000000	ppb	100
55) DIBROMOMETHANE	4.915	93	21649	5.0000000	ppb	100
56) BROMODICHLOROMETHANE	4.989	83	48420	5.0000000	ppb	100
57) 2-CHLOROETHYL VINYL ETHER	5.300	63	174177	25.0000000	ppb	100
58) CIS-1,3-DICHLOROPROPENE	5.368	75	54185	5.0000000	ppb	100
60) 4-METHYL-2-PENTANONE (...)	5.725	43	435421	25.0000000	ppb	100
62) TOLUENE	5.516	91	130538	5.0000000	ppb	100
63) TRANS-1,3-DICHLOROPROPENE	5.763	75	56195	5.0000000	ppb	100
64) 1,1,2-TRICHLOROETHANE	5.873	97	28995	5.0000000	ppb	100
65) TETRACHLOROETHENE	5.770	164	25563	5.0000000	ppb	100
66) 1,3-DICHLOROPROPANE	6.059	76	56172	5.0000000	ppb	100
67) 2-HEXANONE	6.268	58	162356	25.0000000	ppb	100
68) CHLORODIBROMOMETHANE	6.001	129	34404	5.0000000	ppb	100
69) 1,2-DIBROMOETHANE	6.175	107	33772	5.0000000	ppb	100
70) CHLOROBENZENE	6.516	112	78770	5.0000000	ppb	100
71) 1,1,1,2-TETRACHLOROETHANE	6.548	133	29517	5.0000000	ppb	100
72) ETHYLBENZENE	6.509	106	44150	5.0000000	ppb	100
73) M&P-XYLENE	6.603	106	110598	10.0000000	ppb	100
74) O-XYLENE	6.915	106	54163	5.0000000	ppb	100
77) STYRENE	6.950	104	87873	5.0000000	ppb	100
78) BROMOFORM	6.992	173	27941	5.0000000	ppb	100
79) ISOPROPYLBENZENE	7.127	105	144059	5.0000000	ppb	100
82) BROMOBENZENE	7.423	77	68732	5.0000000	ppb	100
83) 1,1,2,2-TETRACHLOROETHANE	7.455	83	48502	5.0000000	ppb	100
84) 1,2,3-TRICHLOROPROPANE	7.564	110	16121	5.0000000	ppb	100
85) TRANS-1,4-DICHLORO-2-B...	7.574	53	18020	5.0000000	ppb	100
86) N-PROPYLBENZENE	7.410	91	165164	5.0000000	ppb	100
87) 4-ETHYLTOLUENE	7.477	105	142447	5.0000000	ppb	100
88) 2-CHLOROTOLUENE	7.532	91	115324	5.0000000	ppb	100
89) 4-CHLOROTOLUENE	7.638	91	107100	5.0000000	ppb	100
90) 1,3,5-TRIMETHYLBENZENE	7.529	105	120537	5.0000000	ppb	100
91) TERT-BUTYLBENZENE	7.744	119	89885	5.0000000	ppb	100
92) 1,2,4-TRIMETHYLBENZENE	7.779	105	113157	4.9757275	ppb	100
93) SEC-BUTYLBENZENE	7.837	105	125772	5.0000000	ppb	100
94) 1,3-DICHLOROBENZENE	7.950	146	49975	5.0000000	ppb	100
95) P-ISOPROPYLTOLUENE	7.898	119	101951	5.0000000	ppb	100
96) DICYCLOPENTADIENE	7.905	66	142444	5.0000000	ppb	100
97) 1,4-DICHLOROBENZENE	7.982	146	48799	5.0000000	ppb	100
98) 1,2,3-TRIMETHYLBENZENE	7.982	105	78924	5.0000000	ppb	100
99) 1,2-DICHLOROBENZENE	8.140	146	43065	5.0000000	ppb	100
100) N-BUTYLBENZENE	8.062	91	84290	5.0000000	ppb	100
101) 1,2-DIBROMO-3-CHLOROPR...	8.435	157	9557	5.0000000	ppb	100
102) 1,3,5-TRICHLOROBENZENE	8.445	180	28860	5.0000000	ppb	100
103) 1,2,4-TRICHLOROBENZENE	8.705	180	24731	5.0000000	ppb	100

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_13.D
Acq On : 5 Aug 2020 10:34 pm
Operator : 988
Sample : MSTD VMS 5.0 ppb 20H05877
Misc : water IS/SURR20G06381
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS38

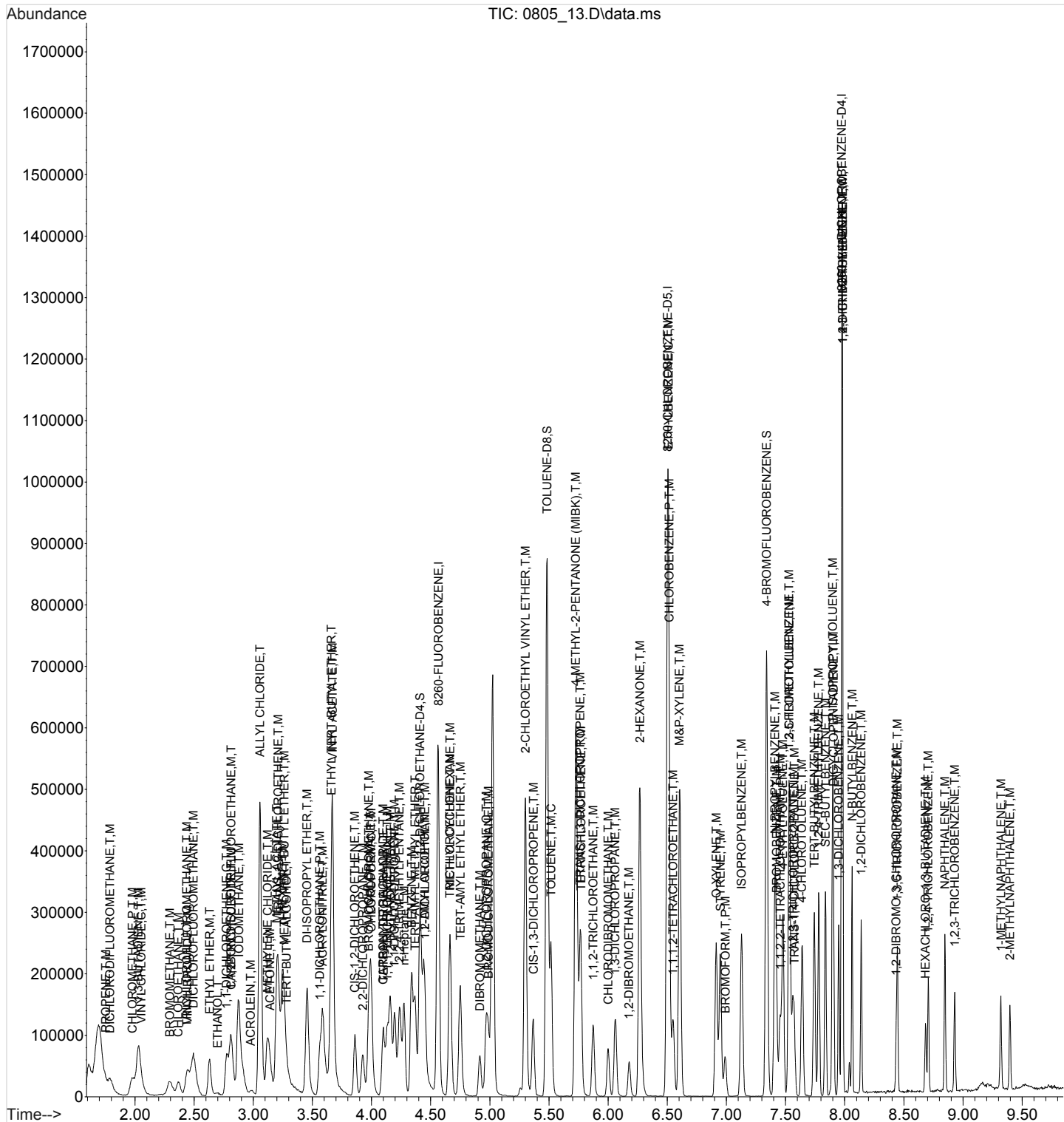
Quant Time: Aug 06 10:23:13 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 10:09:56 2020
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
104)	HEXACHLORO-1,3-BUTADIENE	8.683	225	10080	5.0000000	ppb	100
105)	NAPHTHALENE	8.847	128	88854	5.0000000	ppb	100
106)	1,2,3-TRICHLOROBENZENE	8.931	180	22583	5.0000000	ppb	100
107)	1-METHYLNAPHTHALENE	9.320	142	33036	5.0000000	ppb	100
108)	2-METHYLNAPHTHALENE	9.397	142	30915	5.0000000	ppb	100

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

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_13.D
Acq On : 5 Aug 2020 10:34 pm
Operator : 988
Sample : MSTD VMS 5.0 ppb 20H05877
Misc : water IS/SURR20G06381
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS38

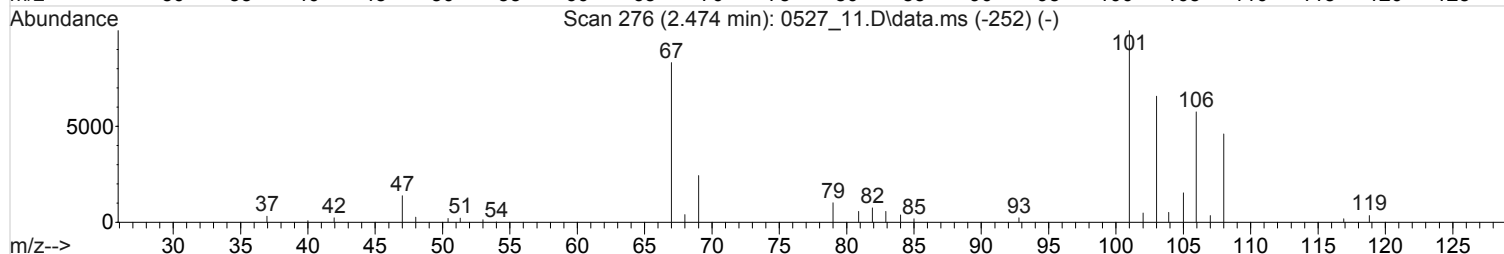
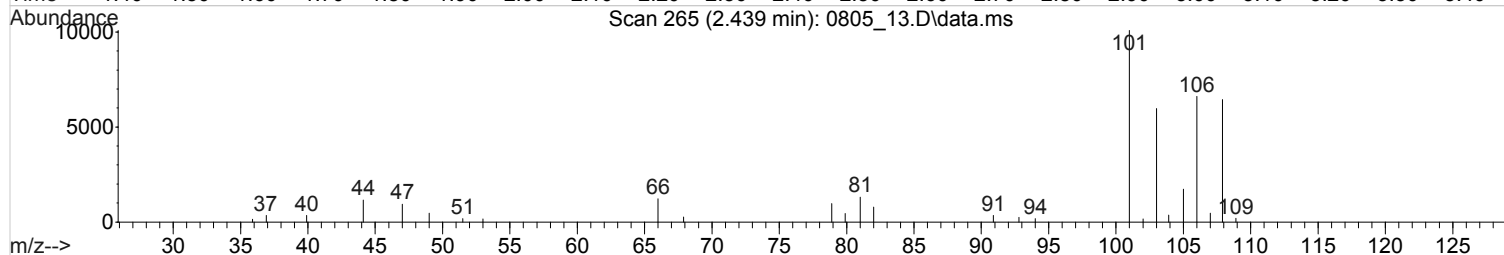
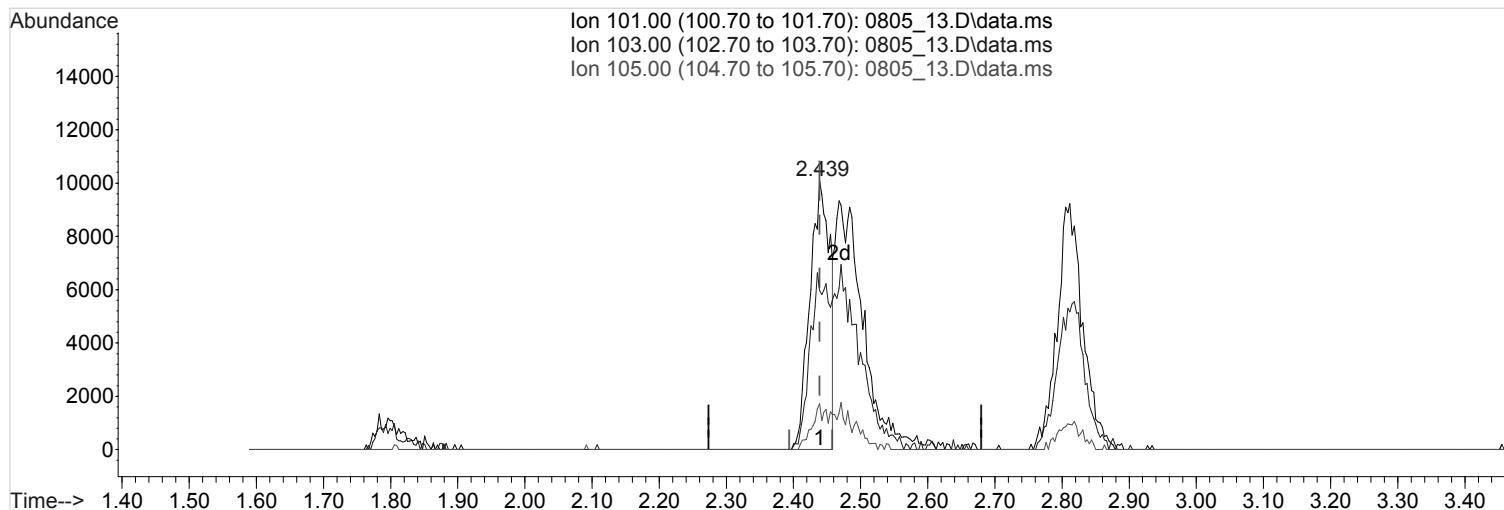
Quant Time: Aug 06 10:23:13 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 10:09:56 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_13.D
 Acq On : 5 Aug 2020 10:34 pm
 Operator : 988
 Sample : MSTB VMS 5.0 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:51 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_13.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.439min (0.000) 2.1479995 ppb

Qvalue = 55

response 20766

Ion	Exp%	Act%
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101.00	100	100
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103.00	17.10	39.73#
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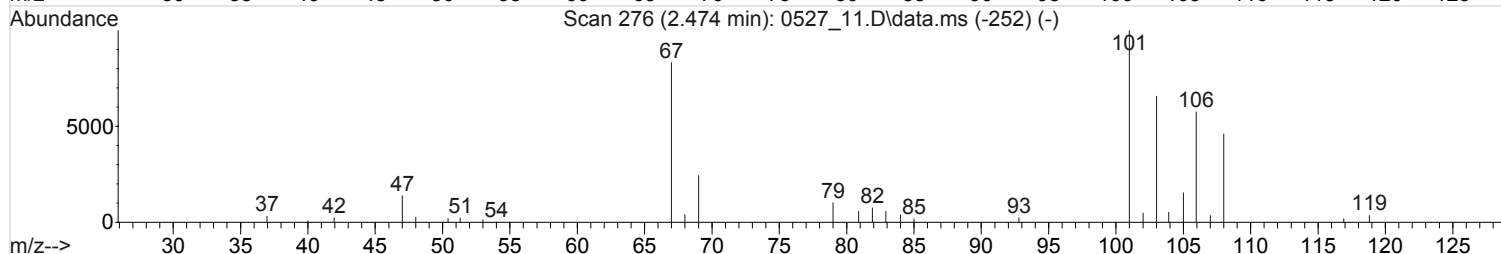
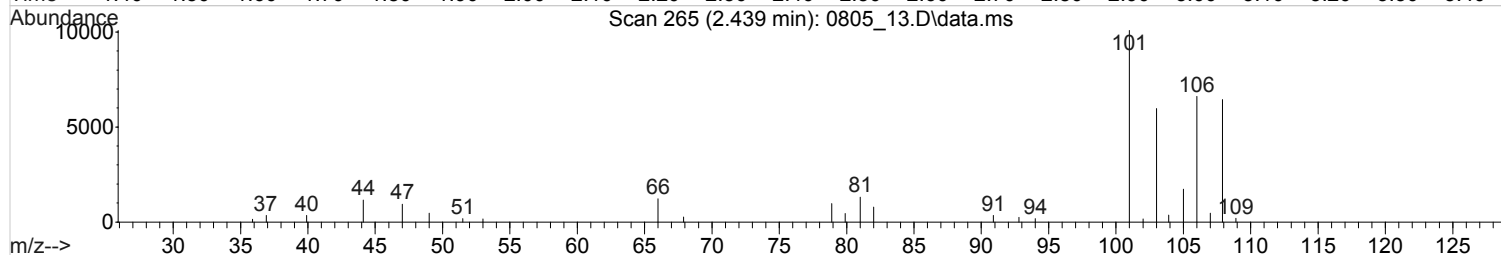
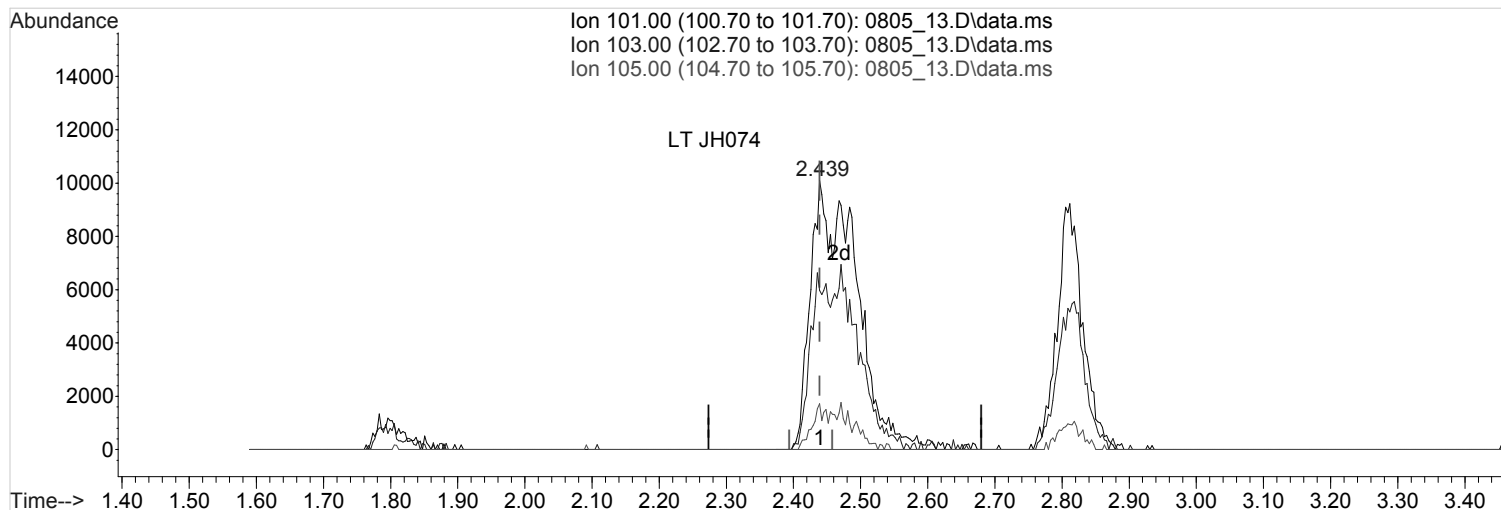
105.00	4.20	9.74#
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_13.D
 Acq On : 5 Aug 2020 10:34 pm
 Operator : 988
 Sample : MSTD VMS 5.0 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:51 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_13.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.439min (0.000) 5.0004138 ppb m

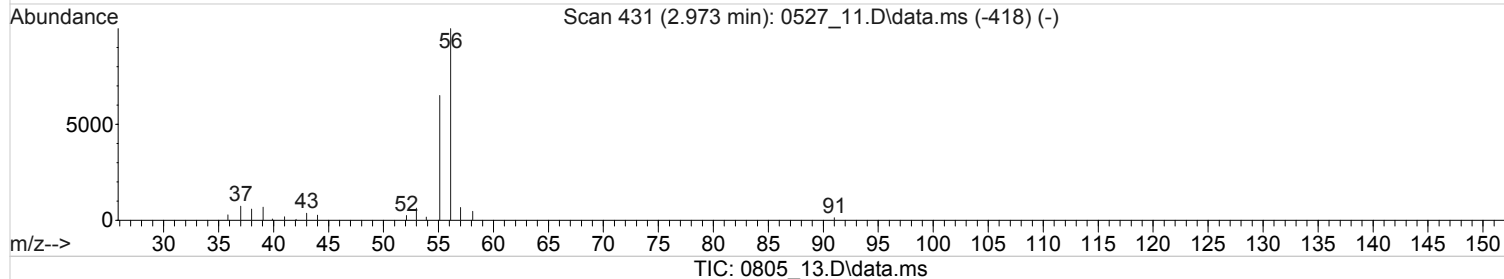
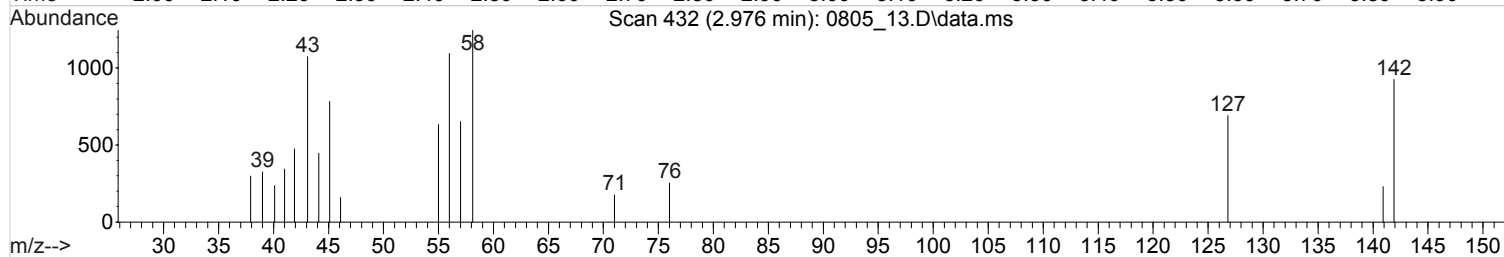
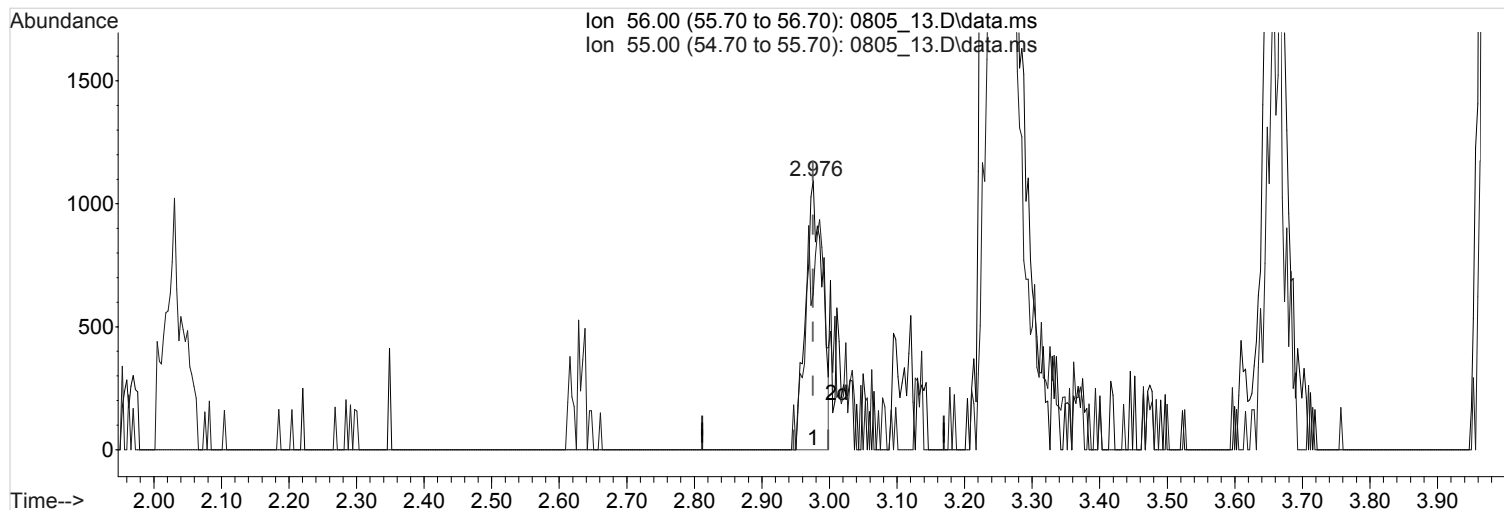
response 48342

Ion	Exp%	Act%
101.00	100	100
103.00	17.10	17.07
105.00	4.20	4.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_13.D
 Acq On : 5 Aug 2020 10:34 pm
 Operator : 988
 Sample : MSTD VMS 5.0 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:51 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



(15) ACROLEIN (T,M)

2.976min (0.000) 16.8818182 ppb

Qvalue = 77

response 1857

Ion	Exp%	Act%
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56.00	100	100
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55.00	23.90	35.33#
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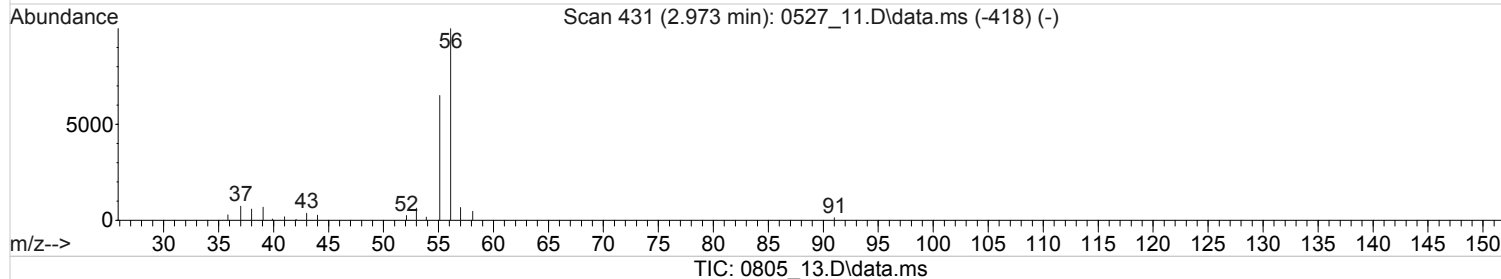
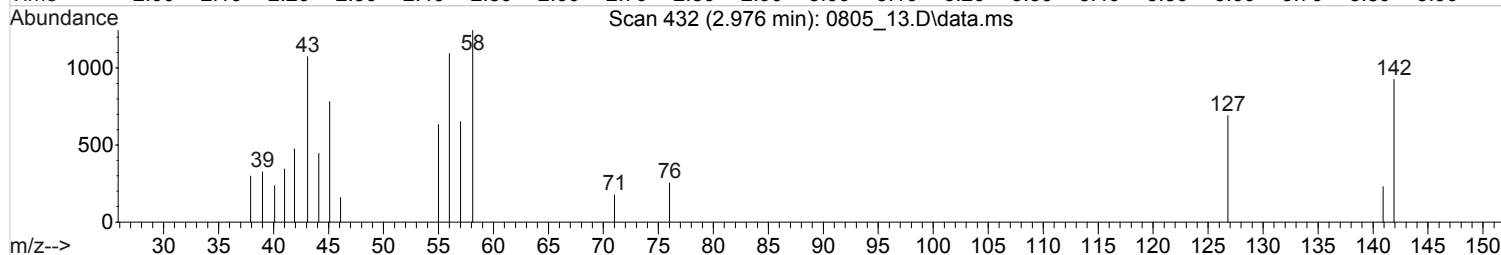
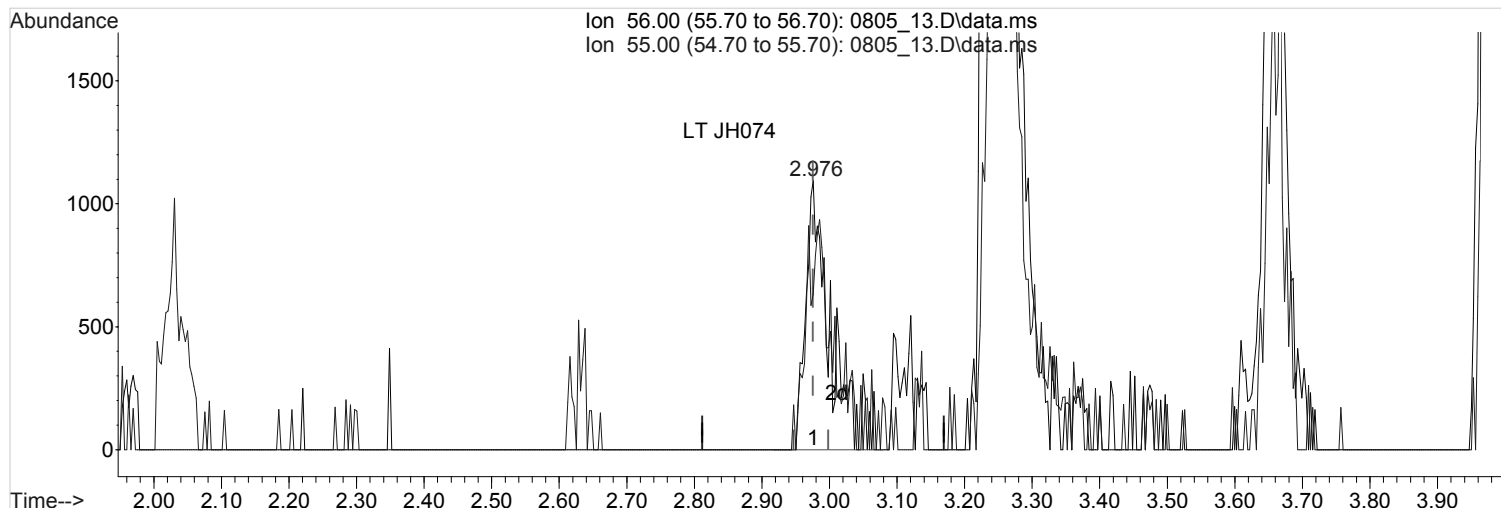
0.00	0.00	0.00
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_13.D
 Acq On : 5 Aug 2020 10:34 pm
 Operator : 988
 Sample : MSTD VMS 5.0 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:51 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



(15) ACROLEIN (T,M)

2.976min (0.000) 25.0000000 ppb m

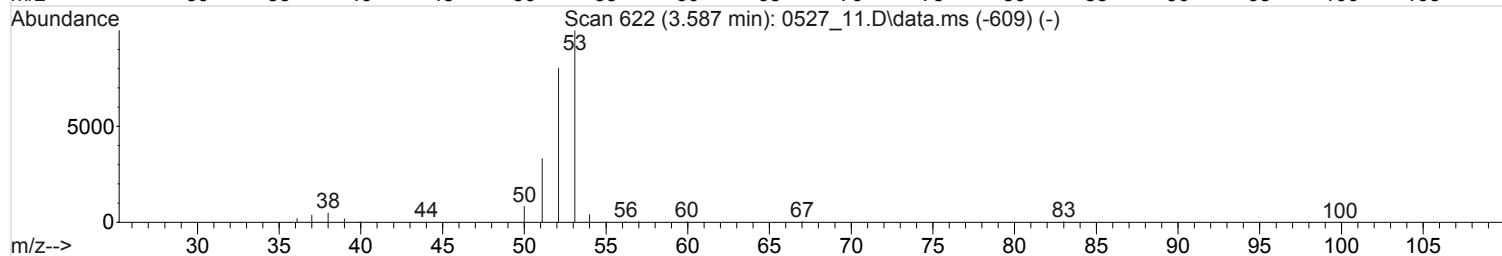
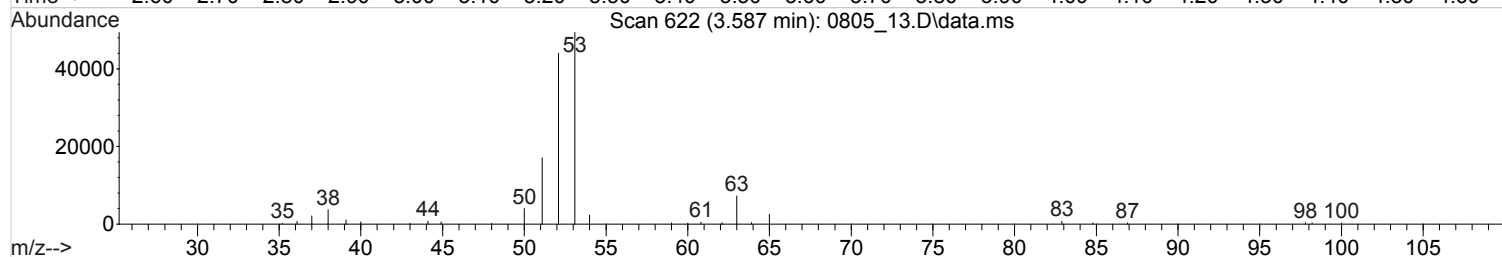
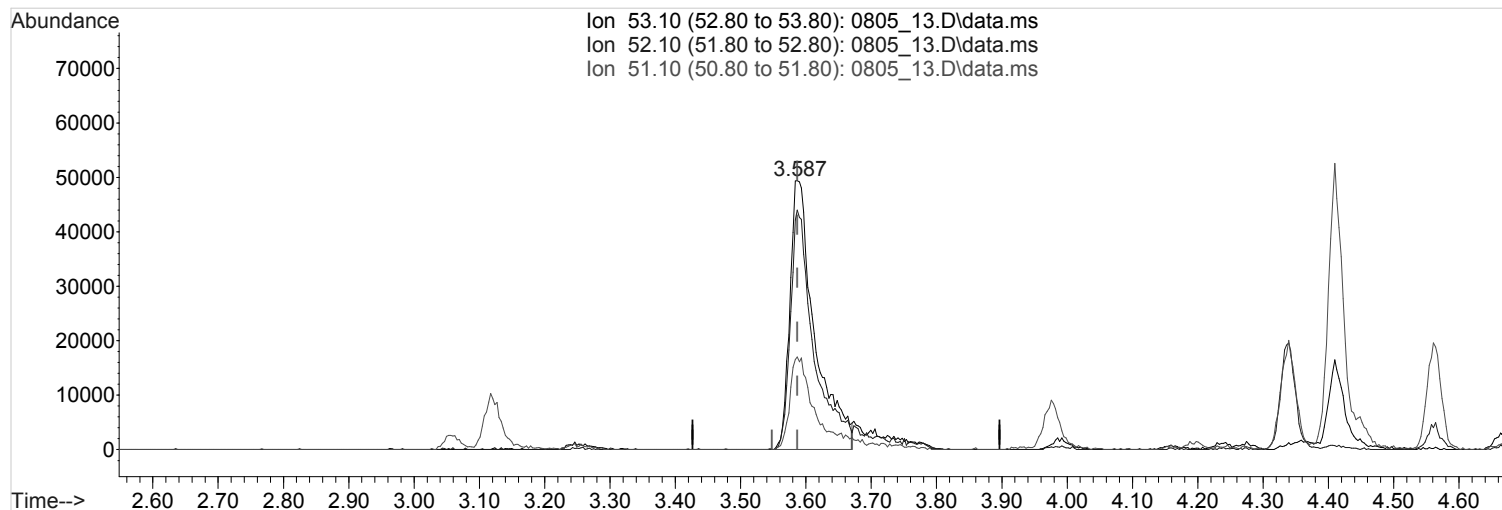
response 2750

Ion	Exp%	Act%
56.00	100	100
55.00	23.90	23.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_13.D
Acq On : 5 Aug 2020 10:34 pm
Operator : 988
Sample : MSTD VMS 5.0 ppb 20H05877
Misc : water IS/SURR20G06381
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS38

Quant Time: Aug 06 10:10:51 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 10:09:56 2020
Response via : Initial Calibration



TIC: 0805_13.D\data.ms

(25) ACRYLONITRILE (T,M)

3.587min (0.000) 22.1793188 ppb

Qvalue = 90

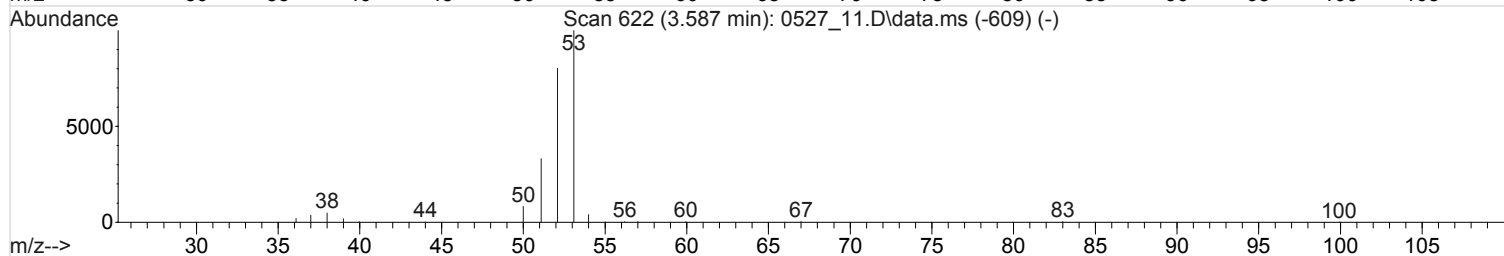
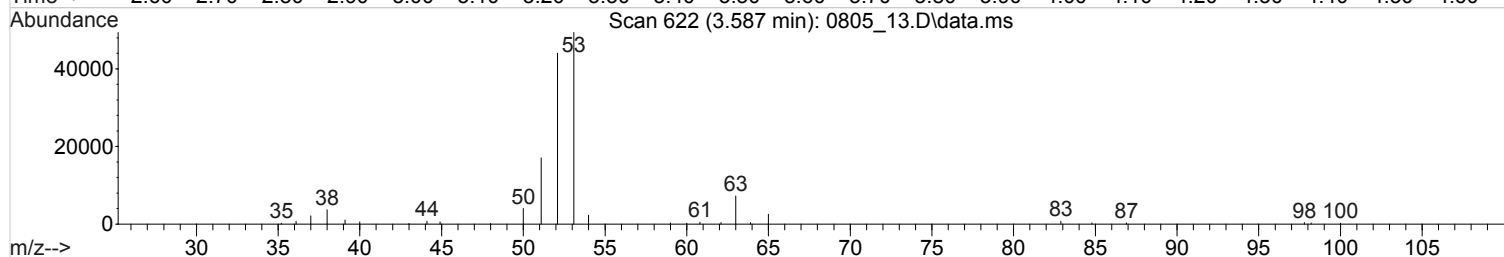
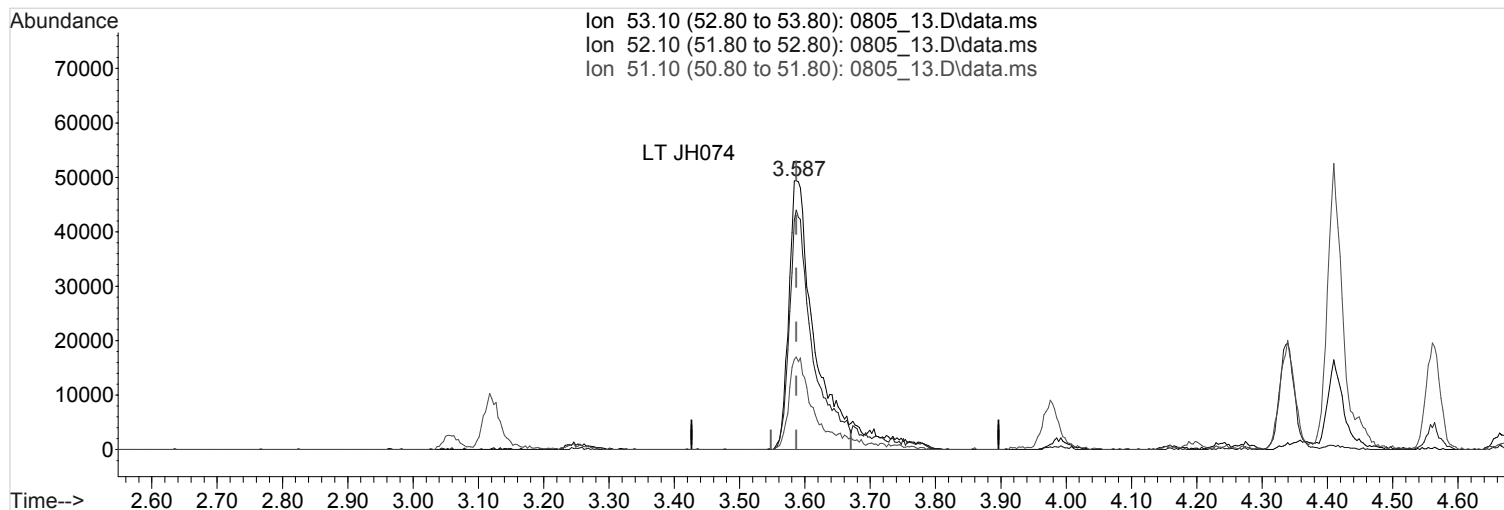
response 131078

Ion	Exp%	Act%
53.10	100	100
52.10	74.30	83.80
51.10	32.00	36.10
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_13.D
 Acq On : 5 Aug 2020 10:34 pm
 Operator : 988
 Sample : MSTD VMS 5.0 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:51 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_13.D\data.ms

(25) ACRYLONITRILE (T,M)

3.587min (0.000) 24.9996616 ppb m

response 147746

Ion	Exp%	Act%
53.10	100	100
52.10	74.30	74.34
51.10	32.00	32.02
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_14.D
 Acq On : 5 Aug 2020 10:54 pm
 Operator : 988
 Sample : STD VMS 25 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:25:03 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.564	96	370741	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.503	82	181496	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.976	152	116418	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.56
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.50
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.98
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.410	65	189196	19.5605134	ppb	0.00
Spiked Amount	16.000		Recovery	= 122.25%		
61) TOLUENE-D8	5.484	98	464666	20.4636676	ppb	0.00
Spiked Amount	16.000	Range 90 - 115	Recovery	= 127.90%#		
80) 4-BROMOFLUOROBENZENE	7.339	95	189075	20.1902082	ppb	0.00
Spiked Amount	16.000	Range 80 - 120	Recovery	= 126.19%#		
Target Compounds						
					Qvalue	
4) PROPENE	1.757	41	106725	35.6783654	ppb #	89
5) DICHLORODIFLUOROMETHANE	1.796	85	201360	27.1264241	ppb #	52
6) CHLOROMETHANE	1.979	50	278162	28.7738503	ppb #	92
7) VINYL CHLORIDE	2.050	62	216248	27.7176030	ppb #	98
8) 1,3-BUTADIENE	2.030	39	196236	26.3364060	ppb	100
9) BROMOMETHANE	2.300	94	125834	26.6718731	ppb #	97
10) CHLOROETHANE	2.368	64	120942	25.7248118	ppb	94
11) VINYL BROMIDE	2.452	106	112343	26.9020186	ppb	96
12) TRICHLOROFLUOROMETHANE	2.468	101	258142m	27.5470251	ppb	
13) DICHLOROFLUOROMETHANE	2.497	67	337240	26.0517199	ppb	97
14) ETHYL ETHER	2.632	59	175282	24.2192547	ppb	96
15) ACROLEIN	2.979	56	10408	97.6133698	ppb #	1
16) ETHANOL	2.702	45	13785	1126.1776509	ppb #	85
17) 1,1-DICHLOROETHENE	2.776	96	117986	26.0076297	ppb	98
18) 1,1,2-TRICHLOROTRIFLUO...	2.812	101	127800	26.6969537	ppb #	97
19) ACETONE	3.140	43	273214	122.7560981	ppb	96
20) IODOMETHANE	2.876	142	1126891	128.8335819	ppb	98
21) CARBON DISULFIDE	2.812	76	385454	26.3170407	ppb	98
22) ALLYL CHLORIDE	3.056	76	406157	129.3956322	ppb	98
23) METHYLENE CHLORIDE	3.120	84	149028	24.3152869	ppb	91
24) METHYL ACETATE	3.201	43	1053715	118.2498530	ppb #	99
25) ACRYLONITRILE	3.587	53	675747m	117.9606702	ppb	
26) n-HEXANE	3.246	56	160027	26.5379743	ppb #	100
27) TRANS-1,2-DICHLOROETHENE	3.214	96	136654	26.1839927	ppb	96
28) METHYL TERT-BUTYL ETHER	3.259	73	500416	24.9324806	ppb	98
29) TERT-BUTYL ALCOHOL	3.284	59	86559	129.4940115	ppb #	100
30) 1,1-DICHLOROETHANE	3.567	63	339079	25.2386490	ppb	98
31) VINYL ACETATE	3.670	43	2540263	122.7812019	ppb	100
32) DI-ISOPROPYL ETHER	3.455	45	766572	24.9738916	ppb	98
33) ETHYL TERT-BUTYL ETHER	3.657	59	652004	24.9480201	ppb	99
34) 2,2-DICHLOROPROPANE	3.927	77	188013	24.5500012	ppb	98
35) CIS-1,2-DICHLOROETHENE	3.860	96	155400	25.4023432	ppb	99
36) 2-BUTANONE (MEK)	4.159	43	904610	125.5456233	ppb	94
37) BROMOCHLOROMETHANE	3.976	130	96943	23.3008204	ppb	94
38) TETRAHYDROFURAN	4.101	42	121081	23.1527807	ppb #	90
39) CHLOROFORM	3.998	83	304835	25.3379670	ppb	98
40) CYCLOHEXANE	3.992	84	201765	27.1575785	ppb	98
41) 1,1,1-TRICHLOROETHANE	4.136	97	258900	25.6783201	ppb	99

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_14.D
 Acq On : 5 Aug 2020 10:54 pm
 Operator : 988
 Sample : STD VMS 25 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:25:03 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
42) CARBON TETRACHLORIDE	4.101	117	228804	25.1365099	ppb		99
43) 1,1-DICHLOROPROPENE	4.198	75	210502	25.6575556	ppb		97
44) 2,2,4-TRIMETHYLPENTANE	4.239	57	635984	25.6797028	ppb		98
45) n-Heptane	4.275	71	117205	26.7215880	ppb	#	94
46) BENZENE	4.339	78	612576	25.3887823	ppb		99
47) TERT-AMYL METHYL ETHER	4.368	73	495654	24.9635897	ppb		98
49) 1,2-DICHLOROETHANE	4.448	62	292933	25.3792491	ppb		99
50) T-AMYL ALCOHOL	4.445	59	206818m	150.6686805	ppb		
51) TRICHLOROETHENE	4.661	132	146158	26.2380295	ppb		99
52) METHYL CYCLOHEXANE	4.664	83	238106	26.7766214	ppb		99
53) TERT-AMYL ETHYL ETHER	4.751	59	500273	25.6248152	ppb		99
54) 1,2-DICHLOROPROPANE	4.972	62	139839	25.7608079	ppb		99
55) DIBROMOMETHANE	4.915	93	106679	25.4182594	ppb		97
56) BROMODICHLOROMETHANE	4.988	83	241429	25.7199051	ppb		100
57) 2-CHLOROETHYL VINYL ETHER	5.300	63	871761	129.0866546	ppb		100
58) CIS-1,3-DICHLOROPROPENE	5.368	75	277491	26.4164550	ppb	#	98
60) 4-METHYL-2-PENTANONE (...)	5.728	43	2084440	127.0299746	ppb		100
62) TOLUENE	5.516	91	654382	26.6042224	ppb		98
63) TRANS-1,3-DICHLOROPROPENE	5.763	75	284771	26.8939296	ppb		99
64) 1,1,2-TRICHLOROETHANE	5.876	97	146201	26.7598336	ppb		99
65) TETRACHLOROETHENE	5.770	164	127018	26.3699696	ppb		99
66) 1,3-DICHLOROPROPANE	6.062	76	273955	25.8830543	ppb		98
67) 2-HEXANONE	6.268	58	800847	130.8902790	ppb		97
68) CHLORODIBROMOMETHANE	6.001	129	174862	26.9738341	ppb		97
69) 1,2-DIBROMOETHANE	6.178	107	165793	26.0534709	ppb		96
70) CHLOROBENZENE	6.516	112	389095	26.2150677	ppb		99
71) 1,1,1,2-TETRACHLOROETHANE	6.548	133	145071	26.0834220	ppb	#	96
72) ETHYLBENZENE	6.509	106	223276	26.8390732	ppb		98
73) M&P-XYLENE	6.606	106	549537	52.7394796	ppb		98
74) O-XYLENE	6.914	106	268432	26.3019383	ppb		99
77) STYRENE	6.950	104	455835	27.5301383	ppb		100
78) BROMOFORM	6.988	173	141242	26.8273696	ppb		99
79) ISOPROPYLBENZENE	7.130	105	714596	26.3254840	ppb		99
82) BROMOBENZENE	7.419	77	334831	25.3827230	ppb		99
83) 1,1,2,2-TETRACHLOROETHANE	7.455	83	235095	25.2554597	ppb		97
84) 1,2,3-TRICHLOROPROPANE	7.561	110	78804	25.4699338	ppb		99
85) TRANS-1,4-DICHLORO-2-B...	7.574	53	99544	28.7827201	ppb	#	94
86) N-PROPYLBENZENE	7.410	91	836322	26.3833332	ppb		99
87) 4-ETHYLTOLUENE	7.477	105	708737	25.9240787	ppb		99
88) 2-CHLOROTOLUENE	7.532	91	566247	25.5833698	ppb	#	95
89) 4-CHLOROTOLUENE	7.641	91	534978	26.0266328	ppb		99
90) 1,3,5-TRIMETHYLBENZENE	7.529	105	606425	26.2136955	ppb		100
91) TERT-BUTYLBENZENE	7.744	119	459317	26.6254422	ppb		98
92) 1,2,4-TRIMETHYLBENZENE	7.779	105	570694	26.1505001	ppb		98
93) SEC-BUTYLBENZENE	7.837	105	642841	26.6312244	ppb		99
94) 1,3-DICHLOROBENZENE	7.950	146	242577	25.2911368	ppb		99
95) P-ISOPROPYLTOLUENE	7.895	119	513768	26.2571203	ppb		99
96) DICYCLOPENTADIENE	7.905	66	712557	26.0643550	ppb		99
97) 1,4-DICHLOROBENZENE	7.982	146	240843	25.7154802	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.982	105	386817	25.5368895	ppb		100
99) 1,2-DICHLOROBENZENE	8.139	146	212007	25.6505854	ppb		98
100) N-BUTYLBENZENE	8.062	91	425136	26.2798790	ppb		100
101) 1,2-DIBROMO-3-CHLOROPR...	8.435	157	44772	24.4093628	ppb		97
102) 1,3,5-TRICHLOROBENZENE	8.445	180	144643	26.1139535	ppb		97
103) 1,2,4-TRICHLOROBENZENE	8.705	180	125171	26.3714237	ppb		99

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_14.D
 Acq On : 5 Aug 2020 10:54 pm
 Operator : 988
 Sample : STD VMS 25 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS38

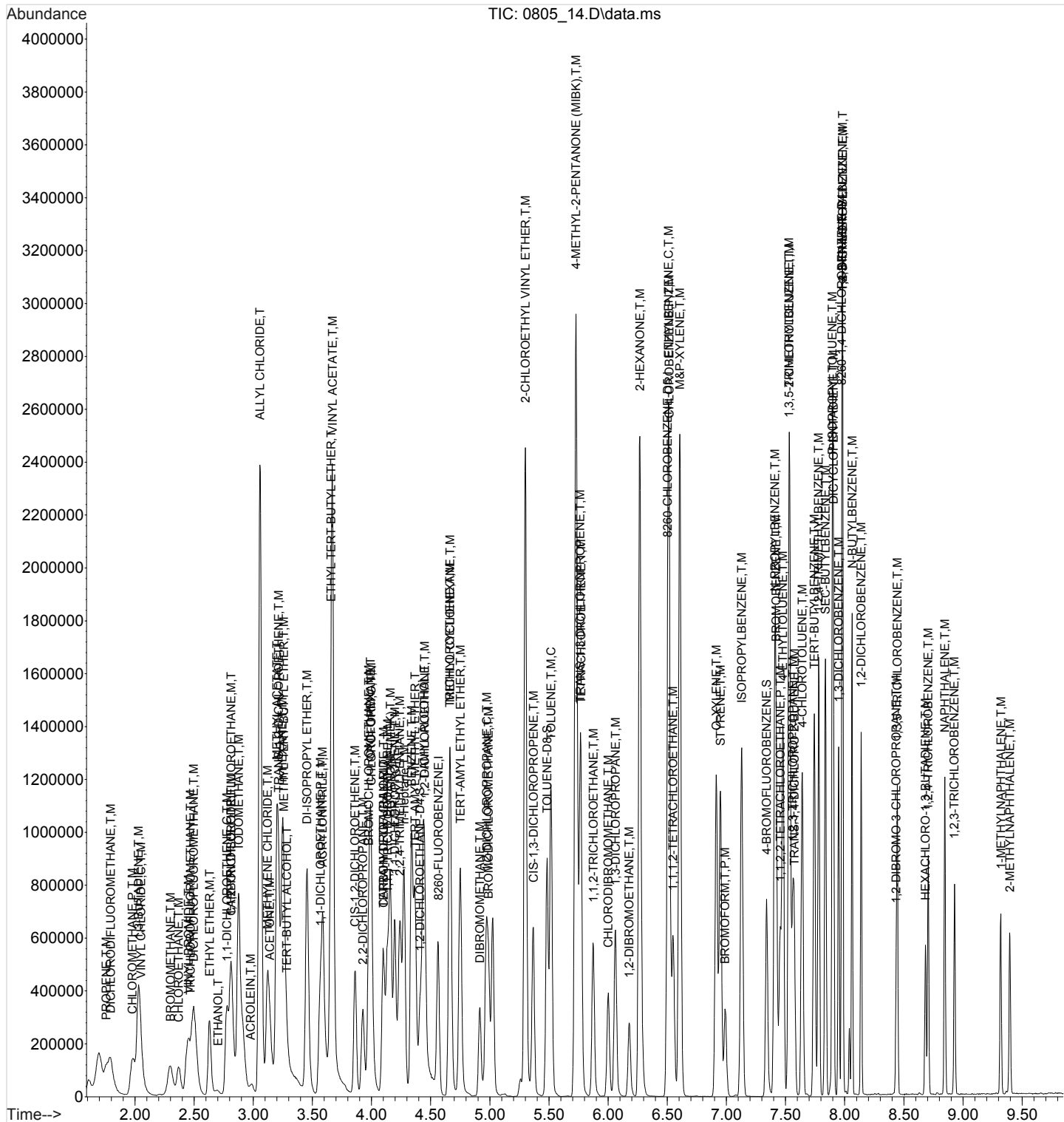
Quant Time: Aug 06 10:25:03 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
104) HEXACHLORO-1,3-BUTADIENE	8.683	225	54374	28.1062098	ppb	96
105) NAPHTHALENE	8.847	128	414986	24.3348120	ppb	100
106) 1,2,3-TRICHLOROBENZENE	8.927	180	111169	25.6491866	ppb	98
107) 1-METHYLNAPHTHALENE	9.319	142	157356	24.8180344	ppb	97
108) 2-METHYLNAPHTHALENE	9.397	142	143758	24.2289338	ppb	99

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

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_14.D
Acq On : 5 Aug 2020 10:54 pm
Operator : 988
Sample : STD VMS 25 ppb 20H05877
Misc : water IS/SURR20G06381
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS38

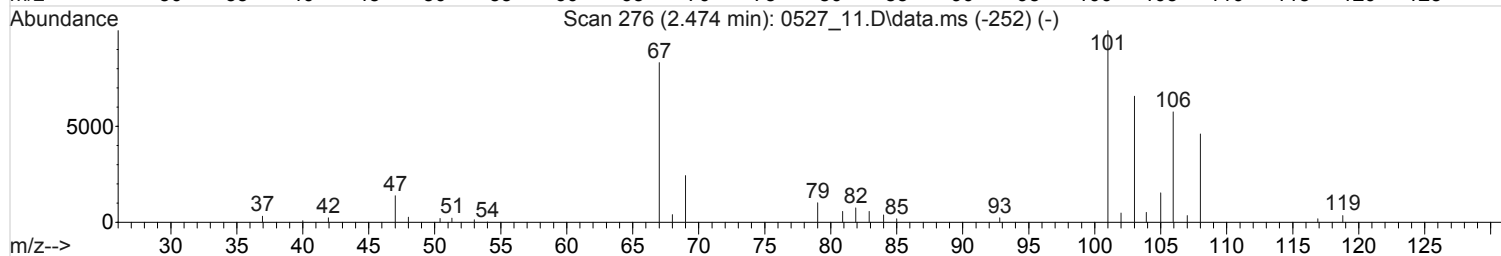
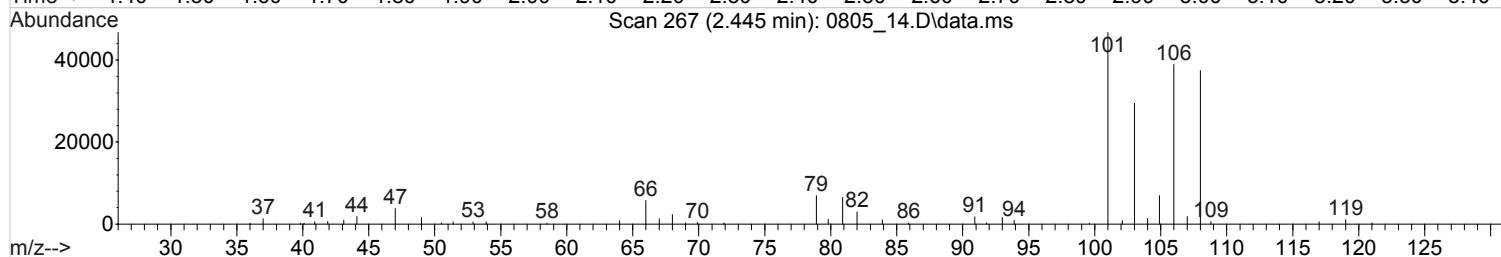
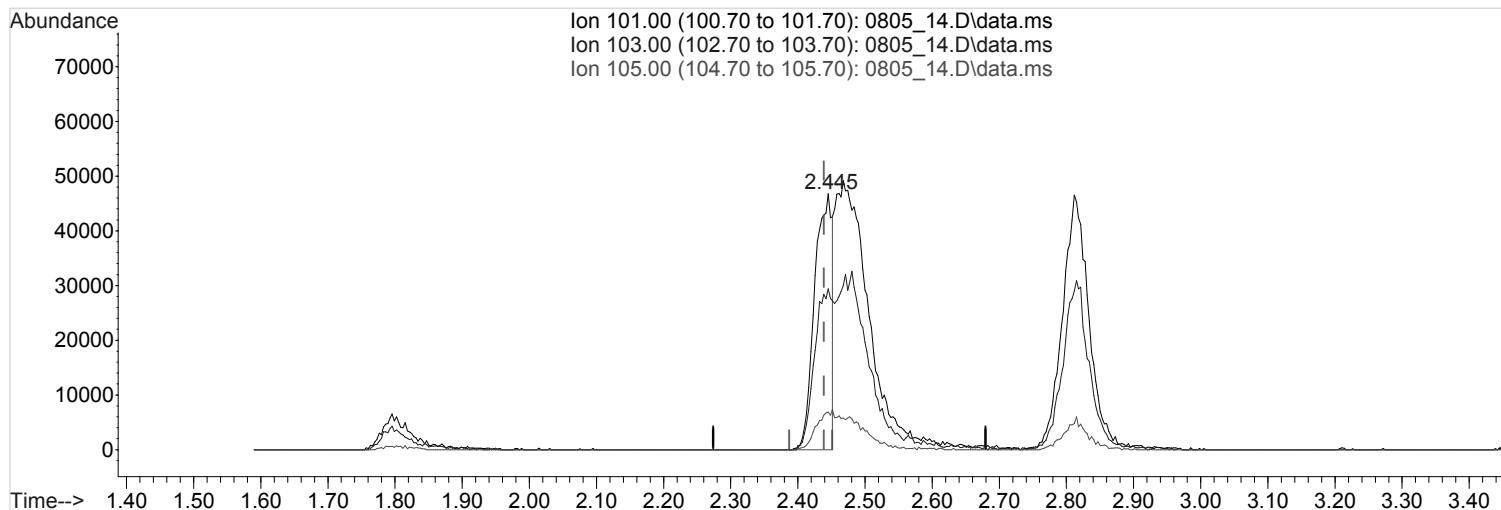
Quant Time: Aug 06 10:25:03 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 10:09:56 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_14.D
 Acq On : 5 Aug 2020 10:54 pm
 Operator : 988
 Sample : STD VMS 25 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:56 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_14.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.445min (+0.006) 9.0262922 ppb

Qvalue = 1

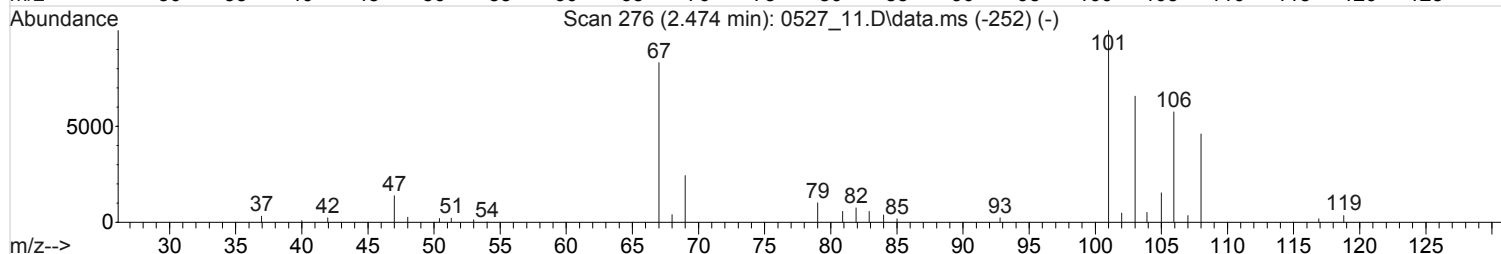
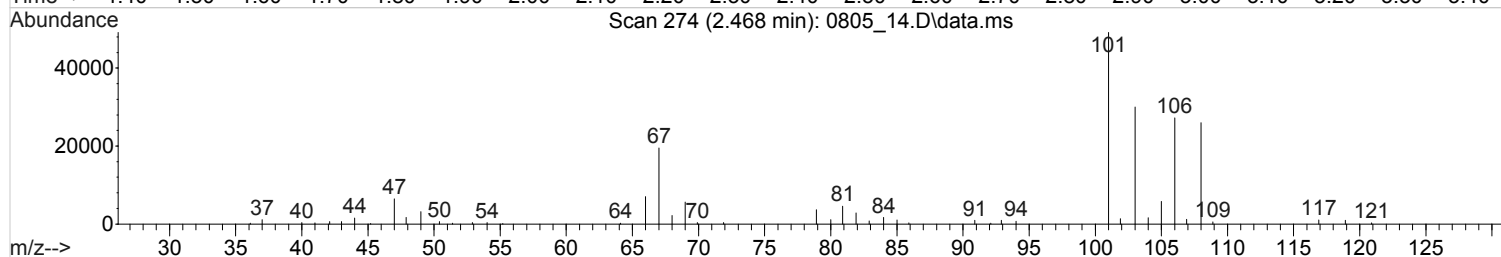
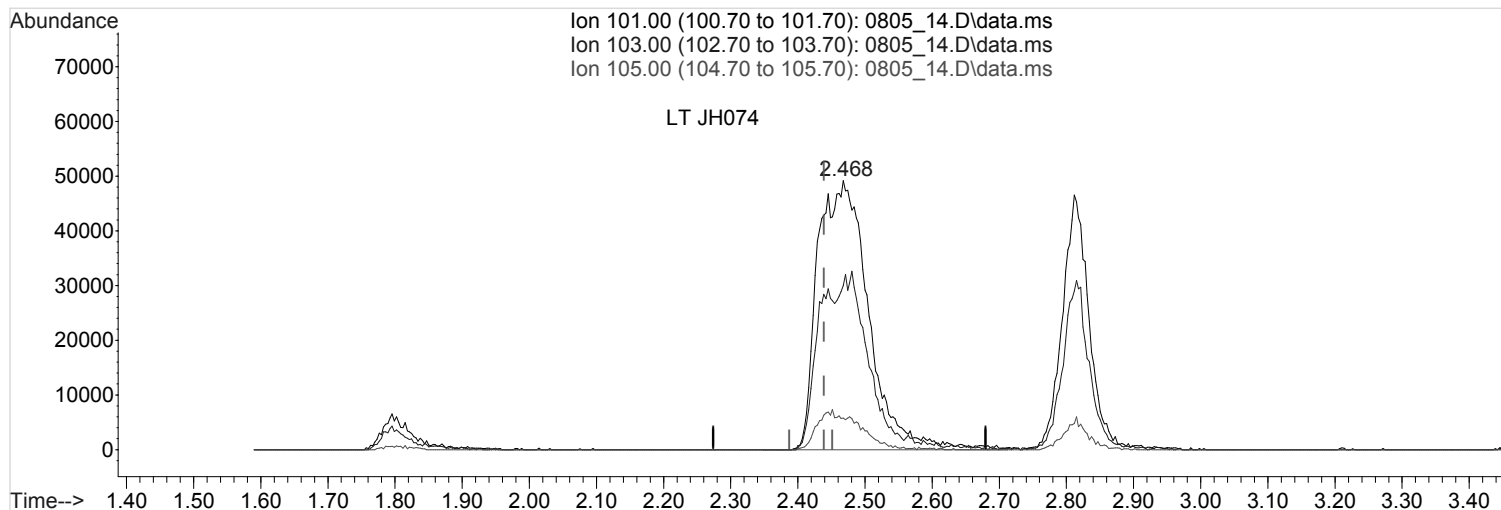
response 84585

Ion	Exp%	Act%
101.00	100	100
103.00	17.10	69.52#
105.00	4.20	16.71#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_14.D
 Acq On : 5 Aug 2020 10:54 pm
 Operator : 988
 Sample : STD VMS 25 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:56 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_14.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.468min (+0.029) 27.5470251 ppb m

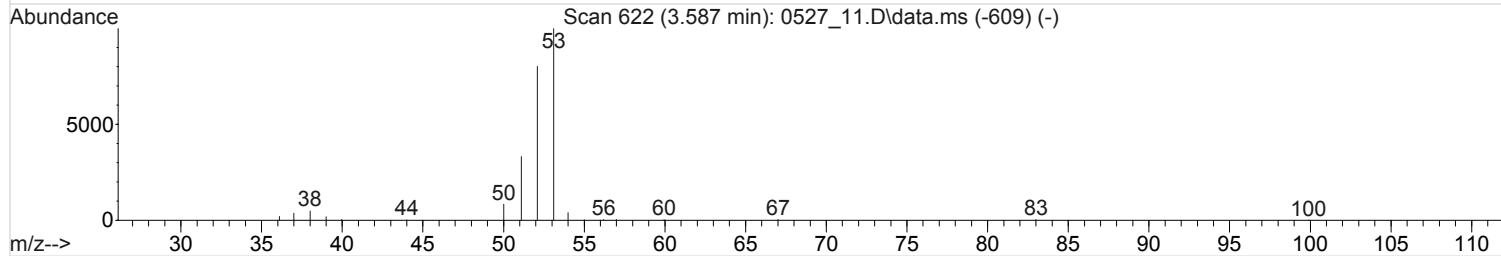
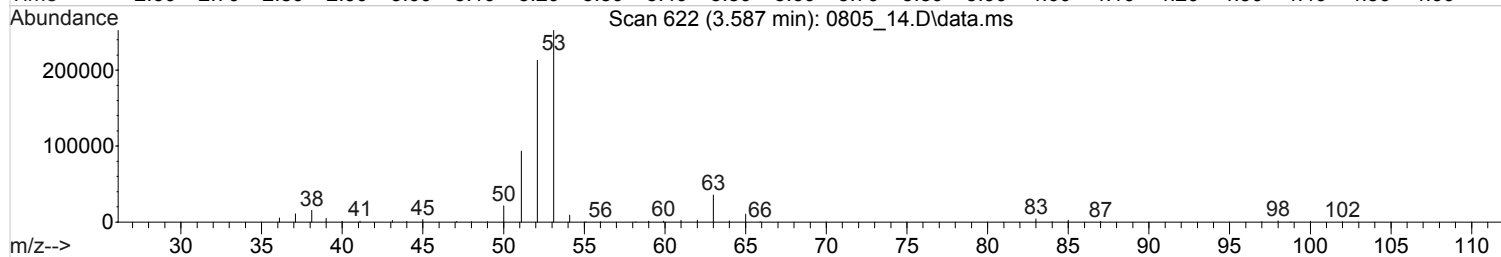
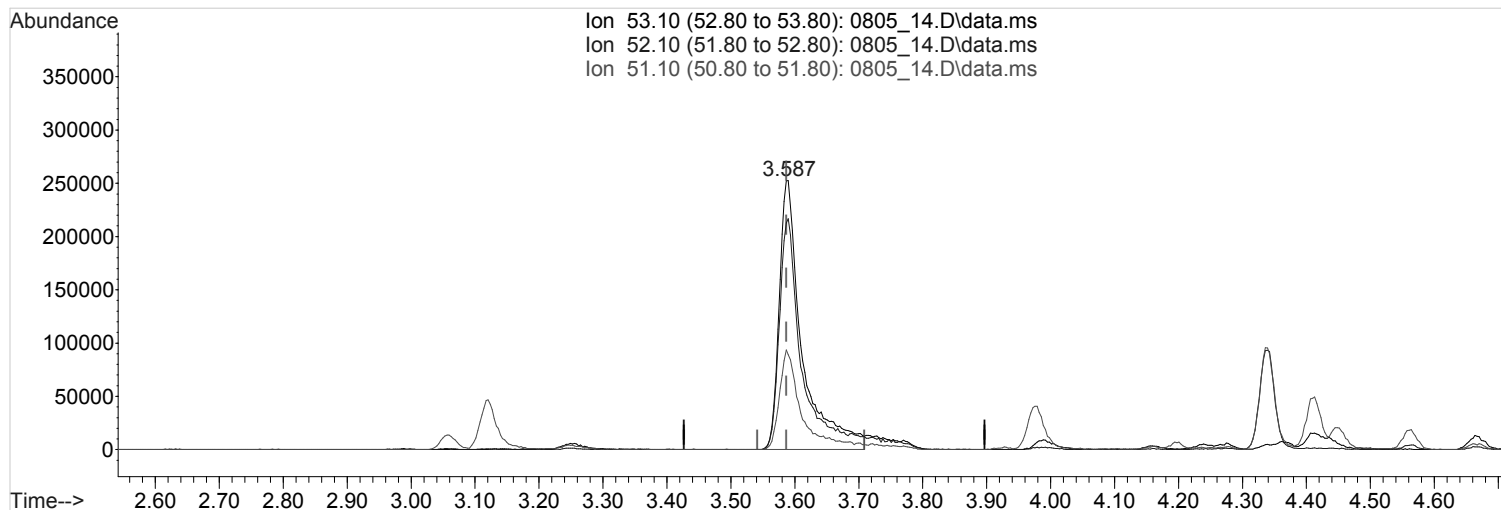
response 258142

Ion	Exp%	Act%
101.00	100	100
103.00	17.10	22.78#
105.00	4.20	5.48#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_14.D
 Acq On : 5 Aug 2020 10:54 pm
 Operator : 988
 Sample : STD VMS 25 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:56 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_14.D\data.ms

(25) ACRYLONITRILE (T,M)

3.587min (-0.000) 109.9586856 ppb

Qvalue = 93

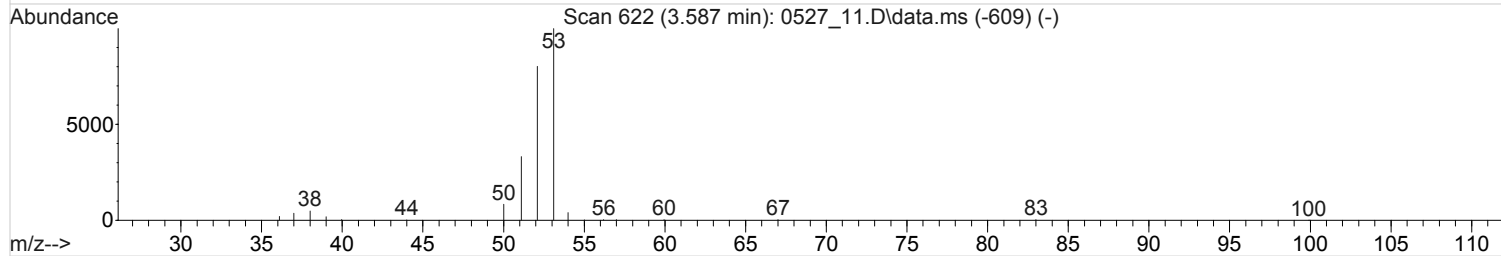
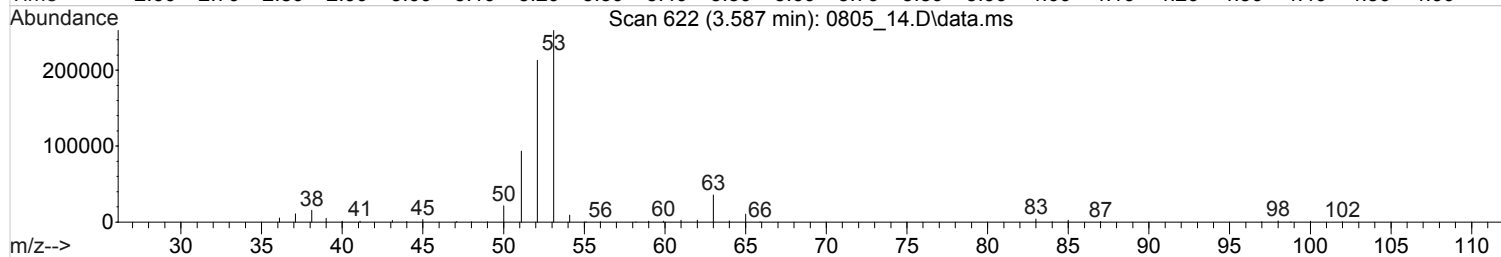
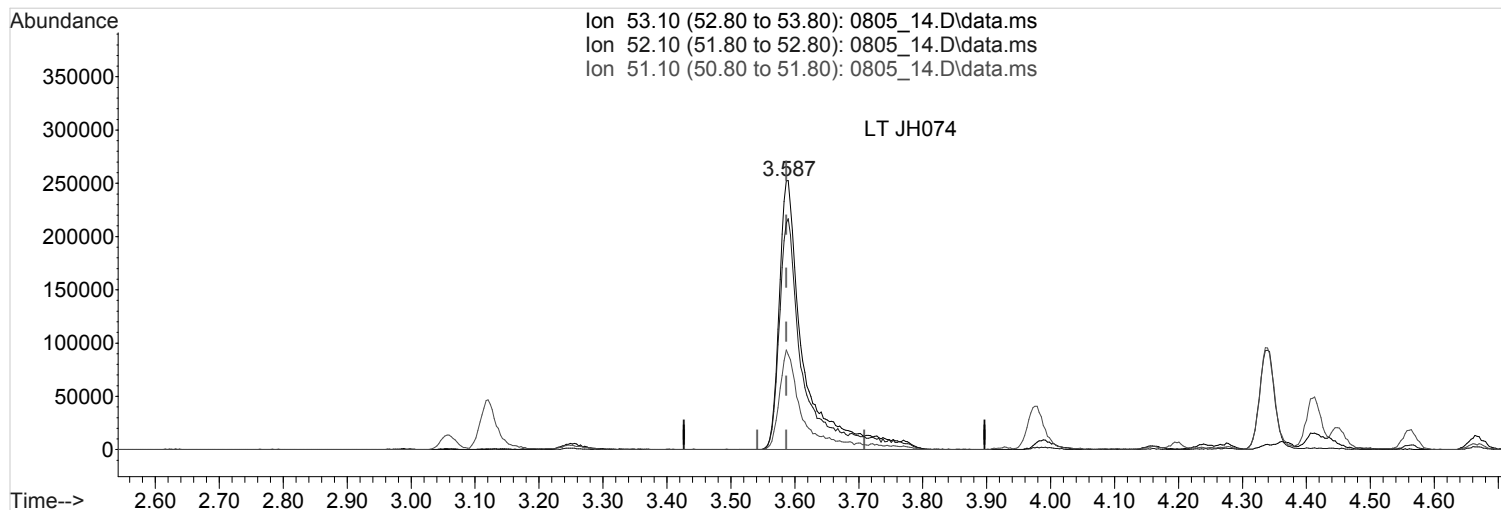
response 629907

Ion	Exp%	Act%
53.10	100	100
52.10	74.30	81.44
51.10	32.00	34.77
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_14.D
 Acq On : 5 Aug 2020 10:54 pm
 Operator : 988
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 Quant Title : Volatile Organics by GC/MS
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 Response via : Initial Calibration



TIC: 0805_14.D\data.ms

(25) ACRYLONITRILE (T,M)

3.587min (-0.000) 117.9606702 ppb m

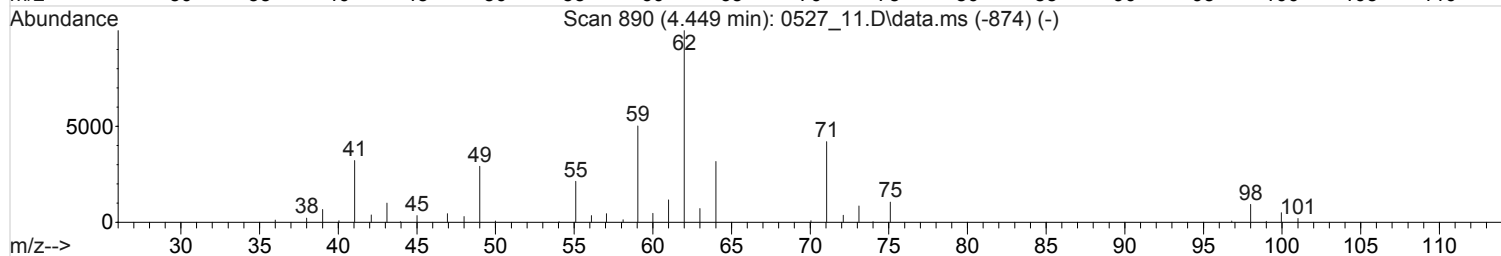
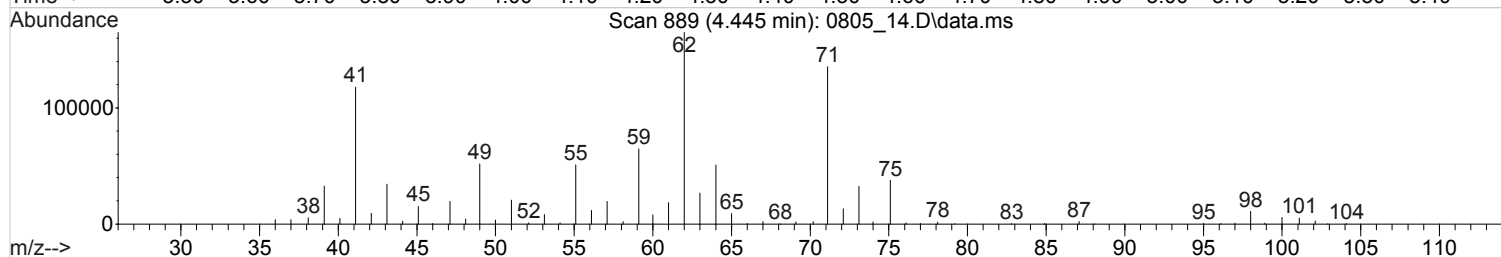
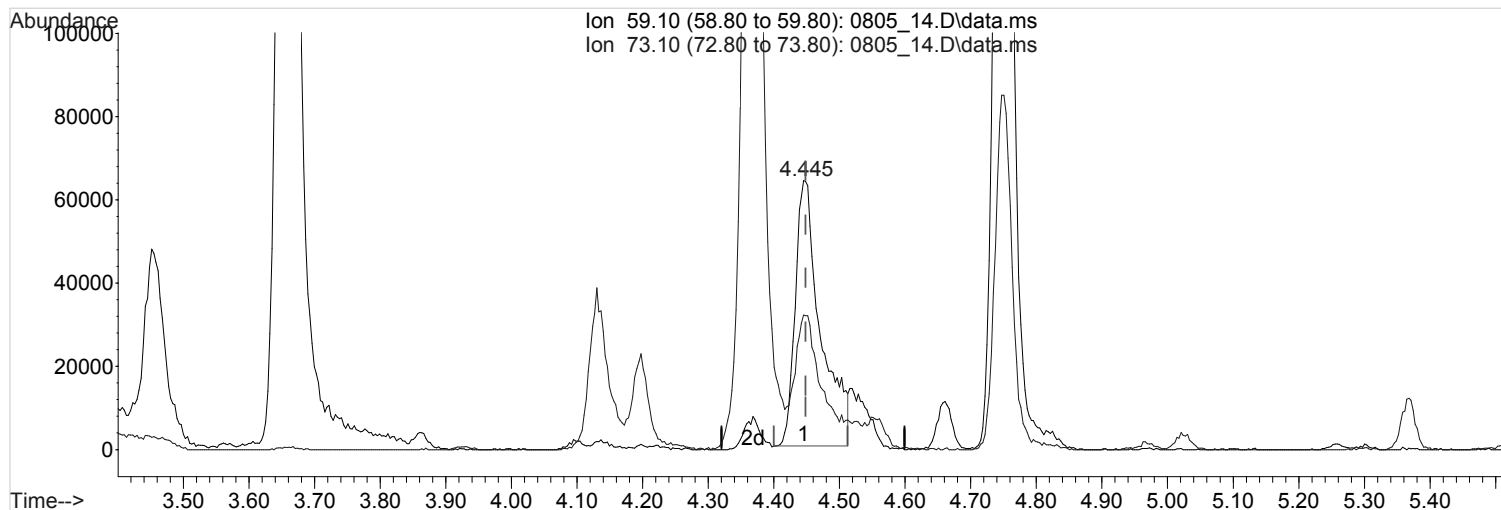
response 675747

Ion	Exp%	Act%
53.10	100	100
52.10	74.30	75.91
51.10	32.00	32.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_14.D
 Acq On : 5 Aug 2020 10:54 pm
 Operator : 988
 Sample : STD VMS 25 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:56 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_14.D\data.ms

(50) T-AMYL ALCOHOL (T)

4.445min (-0.003) 125.3355243 ppb

Qvalue = 75

response 172044

Ion	Exp%	Act%
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59.10	100	100
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73.10	22.30	34.31#
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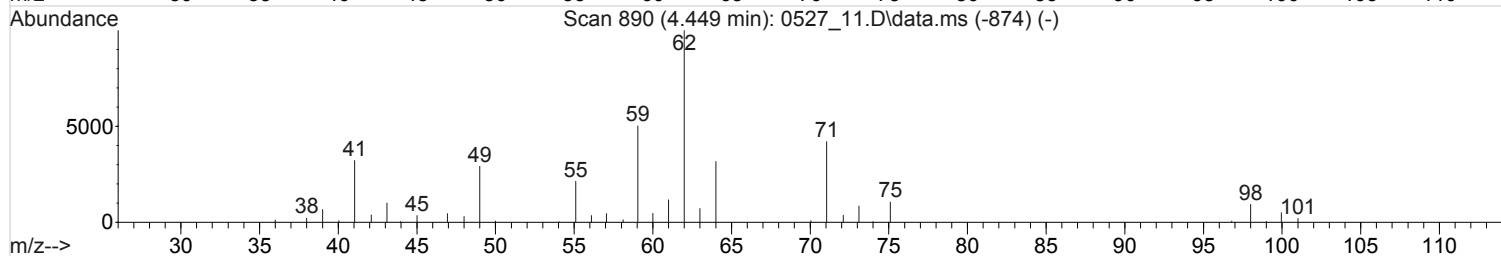
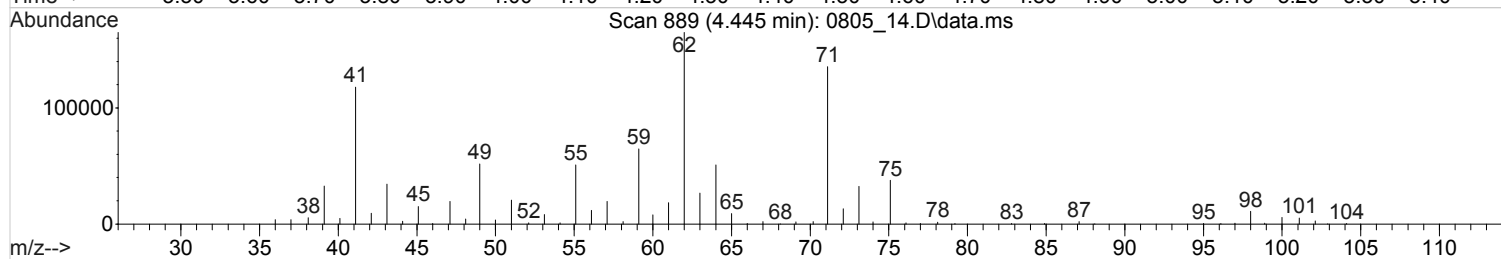
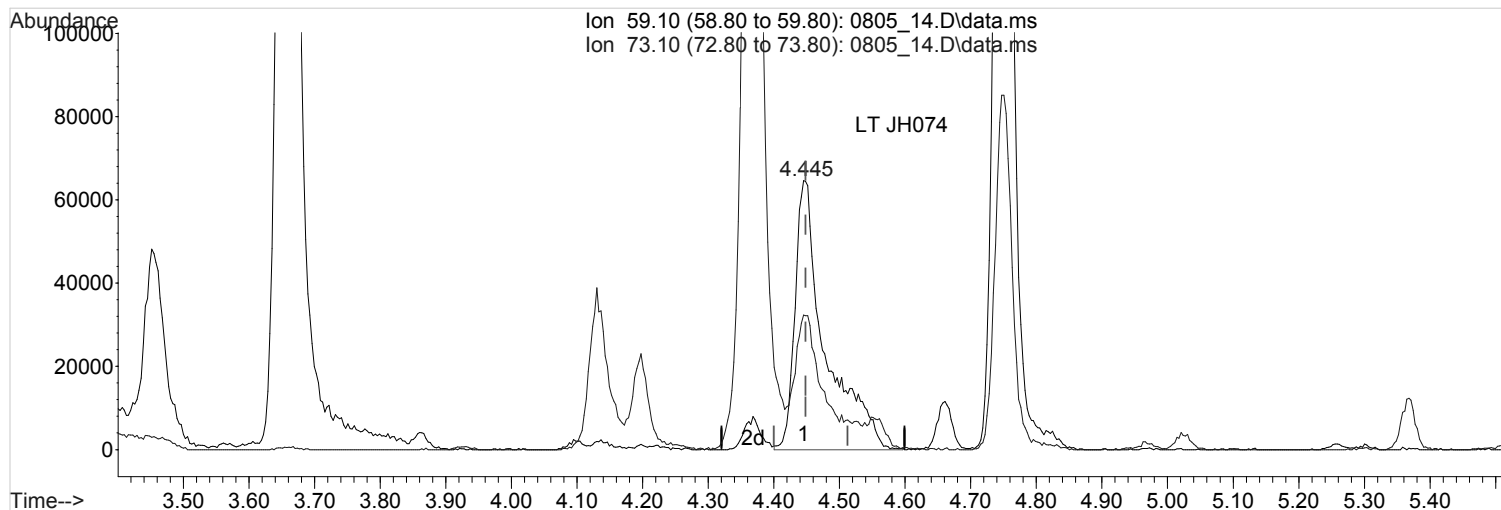
0.00	0.00	0.00
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0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_14.D
 Acq On : 5 Aug 2020 10:54 pm
 Operator : 988
 Sample : STD VMS 25 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:10:56 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_14.D\data.ms

(50) T-AMYL ALCOHOL (T)

4.445min (-0.003) 150.6686805 ppb m

response 206818

Ion	Exp%	Act%
-----	------	------

59.10	100	100
-------	-----	-----

73.10	22.30	28.54#
-------	-------	--------

0.00	0.00	0.00
------	------	------

0.00	0.00	0.00
------	------	------

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_15.D
 Acq On : 5 Aug 2020 11:13 pm
 Operator : 988
 Sample : STD VMS 75 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 15 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:26:47 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	362699	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.503	82	180830	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.976	152	111640	16.0000000	ppb	# 0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.56
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.50
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.98
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.413	65	182617	19.2989536	ppb	0.00
Spiked Amount 16.000			Recovery	= 120.62%		
61) TOLUENE-D8	5.484	98	480978	21.2600541	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	= 132.88%#		
80) 4-BROMOFLUOROBENZENE	7.342	95	193944	20.7864159	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	= 129.92%#		
Target Compounds						
					Qvalue	
4) PROPENE	1.761	41	390513	133.4438429	ppb #	90
5) DICHLORODIFLUOROMETHANE	1.799	85	642857	88.5233787	ppb #	50
6) CHLOROMETHANE	1.982	50	814596	86.1324322	ppb #	90
7) VINYL CHLORIDE	2.047	62	671577	87.9880401	ppb #	98
8) 1,3-BUTADIENE	2.034	39	591874	81.1953854	ppb	99
9) BROMOMETHANE	2.297	94	382762	82.9294125	ppb #	95
10) CHLOROETHANE	2.365	64	364903	79.3371787	ppb	97
11) VINYL BROMIDE	2.445	106	335141	82.0333922	ppb	97
12) TRICHLOROFLUOROMETHANE	2.474	101	788526m	86.0114583	ppb	
13) DICHLOROFLUOROMETHANE	2.497	67	1014104	80.0763139	ppb	98
14) ETHYL ETHER	2.629	59	521218	73.6151360	ppb	96
15) ACROLEIN	2.973	56	37144	356.0860430	ppb #	1
16) ETHANOL	2.706	45	77247	6450.6876719	ppb #	70
17) 1,1-DICHLOROETHENE	2.773	96	360758	81.2850214	ppb	98
18) 1,1,2-TRICHLOROTRIFLUO...	2.812	101	401018	85.6286271	ppb #	98
19) ACETONE	3.140	43	865624	397.5517538	ppb	94
20) IODOMETHANE	2.876	142	3334273	389.6481204	ppb	98
21) CARBON DISULFIDE	2.812	76	1182493	82.5253418	ppb	99
22) ALLYL CHLORIDE	3.056	76	1211658	394.5753833	ppb	100
23) METHYLENE CHLORIDE	3.121	84	431281	71.9276895	ppb	91
24) METHYL ACETATE	3.201	43	2968887	340.5613620	ppb #	99
25) ACRYLONITRILE	3.587	53	1527528	272.5627760	ppb	89
26) n-HEXANE	3.246	56	496049	84.0859322	ppb #	99
27) TRANS-1,2-DICHLOROETHENE	3.214	96	412628	80.8158374	ppb	95
28) METHYL TERT-BUTYL ETHER	3.259	73	1464192	74.5687033	ppb	91
29) TERT-BUTYL ALCOHOL	3.288	59	463421	708.6591897	ppb #	100
30) 1,1-DICHLOROETHANE	3.564	63	1002203	76.2509339	ppb	99
31) VINYL ACETATE	3.667	43	8711908	430.4183092	ppb	100
32) DI-ISOPROPYL ETHER	3.455	45	2299966	76.5912127	ppb	100
33) ETHYL TERT-BUTYL ETHER	3.658	59	1962948	76.7748326	ppb	100
34) 2,2-DICHLOROPROPANE	3.924	77	608951	81.2774830	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.860	96	452097	75.5402901	ppb	99
36) 2-BUTANONE (MEK)	4.159	43	2629768	373.0627508	ppb #	91
37) BROMOCHLOROMETHANE	3.976	130	272357	66.9140872	ppb	94
38) TETRAHYDROFURAN	4.098	42	308573	60.3127791	ppb	96
39) CHLOROFORM	3.995	83	895383	76.0746635	ppb	99
40) CYCLOHEXANE	3.989	84	624848	85.9693920	ppb	98
41) 1,1,1-TRICHLOROETHANE	4.137	97	809000	82.0176533	ppb	97

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_15.D
 Acq On : 5 Aug 2020 11:13 pm
 Operator : 988
 Sample : STD VMS 75 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 15 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:26:47 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
42) CARBON TETRACHLORIDE	4.098	117	692714	77.7892509	ppb		99
43) 1,1-DICHLOROPROPENE	4.198	75	636680	79.3239841	ppb		98
44) 2,2,4-TRIMETHYLPENTANE	4.243	57	1755353	72.4490220	ppb		93
45) n-Heptane	4.275	71	360451	84.0014180	ppb	#	26
46) BENZENE	4.339	78	1825963	77.3567340	ppb		100
47) TERT-AMYL METHYL ETHER	4.365	73	1496928	77.0643628	ppb		98
49) 1,2-DICHLOROETHANE	4.449	62	831622	73.6479561	ppb		99
50) T-AMYL ALCOHOL	4.449	59	666830m	496.5626382	ppb		
51) TRICHLOROETHENE	4.661	132	430179	78.9372675	ppb		99
52) METHYL CYCLOHEXANE	4.667	83	735972	84.6001222	ppb		99
53) TERT-AMYL ETHYL ETHER	4.751	59	1546866	80.9898567	ppb		98
54) 1,2-DICHLOROPROPANE	4.969	62	404172	76.1064829	ppb		100
55) DIBROMOMETHANE	4.915	93	320823	78.1369807	ppb		98
56) BROMODICHLOROMETHANE	4.992	83	735056	80.0432312	ppb		100
57) 2-CHLOROETHYL VINYL ETHER	5.301	63	2633586	398.6168690	ppb		100
58) CIS-1,3-DICHLOROPROPENE	5.365	75	848927	82.6076446	ppb	#	99
60) 4-METHYL-2-PENTANONE (...)	5.728	43	6187451	378.4645105	ppb		100
62) TOLUENE	5.516	91	1971900	80.4638275	ppb		98
63) TRANS-1,3-DICHLOROPROPENE	5.764	75	869693	82.4367865	ppb		99
64) 1,1,2-TRICHLOROETHANE	5.873	97	446353	81.9989139	ppb		97
65) TETRACHLOROETHENE	5.773	164	377921	78.7484401	ppb		100
66) 1,3-DICHLOROPROPANE	6.059	76	820913	77.8448706	ppb		98
67) 2-HEXANONE	6.268	58	2435758	399.5660256	ppb		97
68) CHLORODIBROMOMETHANE	6.002	129	535954	82.9795991	ppb		96
69) 1,2-DIBROMOETHANE	6.178	107	508967	80.2759769	ppb		97
70) CHLOROBENZENE	6.516	112	1169719	79.0994482	ppb		99
71) 1,1,1,2-TETRACHLOROETHANE	6.551	133	438989	79.2198795	ppb	#	96
72) ETHYLBENZENE	6.510	106	662798	79.9656066	ppb		99
73) M&P-XYLENE	6.606	106	1629105	156.9222598	ppb		100
74) O-XYLENE	6.915	106	795926	78.2749386	ppb		99
77) STYRENE	6.950	104	1373584	83.2630901	ppb		99
78) BROMOFORM	6.992	173	442471	84.3520461	ppb		99
79) ISOPROPYLBENZENE	7.130	105	2110252	78.0273181	ppb		99
82) BROMOBENZENE	7.419	77	1003977	79.3663890	ppb		99
83) 1,1,2,2-TETRACHLOROETHANE	7.455	83	731502	81.9459906	ppb		97
84) 1,2,3-TRICHLOROPROPANE	7.561	110	237484	80.0413152	ppb		97
85) TRANS-1,4-DICHLORO-2-B...	7.574	53	310211	93.5350205	ppb	#	92
86) N-PROPYLBENZENE	7.410	91	2468162	81.1951537	ppb		99
87) 4-ETHYLTOLUENE	7.477	105	2052517	78.2898200	ppb		100
88) 2-CHLOROTOLUENE	7.532	91	1660389	78.2279571	ppb	#	95
89) 4-CHLOROTOLUENE	7.641	91	1581824	80.2491662	ppb		99
90) 1,3,5-TRIMETHYLBENZENE	7.532	105	1765410	79.5787371	ppb		99
91) TERT-BUTYLBENZENE	7.744	119	1306526	78.9773710	ppb		99
92) 1,2,4-TRIMETHYLBENZENE	7.780	105	1644989	78.6031584	ppb		98
93) SEC-BUTYLBENZENE	7.837	105	1844028	79.6627662	ppb		99
94) 1,3-DICHLOROBENZENE	7.950	146	717116	77.9665736	ppb		99
95) P-ISOPROPYLTOLUENE	7.895	119	1480752	78.9155662	ppb		100
96) DICYCLOPENTADIENE	7.905	66	2026510	77.2994545	ppb		100
97) 1,4-DICHLOROBENZENE	7.982	146	703767	78.3591678	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.982	105	1108701	76.3268238	ppb		99
99) 1,2-DICHLOROBENZENE	8.140	146	632062	79.7456621	ppb		97
100) N-BUTYLBENZENE	8.063	91	1240274	79.9490715	ppb		99
101) 1,2-DIBROMO-3-CHLOROPR...	8.435	157	137585	78.2206357	ppb		98
102) 1,3,5-TRICHLOROBENZENE	8.445	180	431949	81.3219876	ppb		97
103) 1,2,4-TRICHLOROBENZENE	8.706	180	389168	85.5002302	ppb		99

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_15.D
Acq On : 5 Aug 2020 11:13 pm
Operator : 988
Sample : STD VMS 75 ppb 20H05877
Misc : water IS/SURR20G06381
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS38

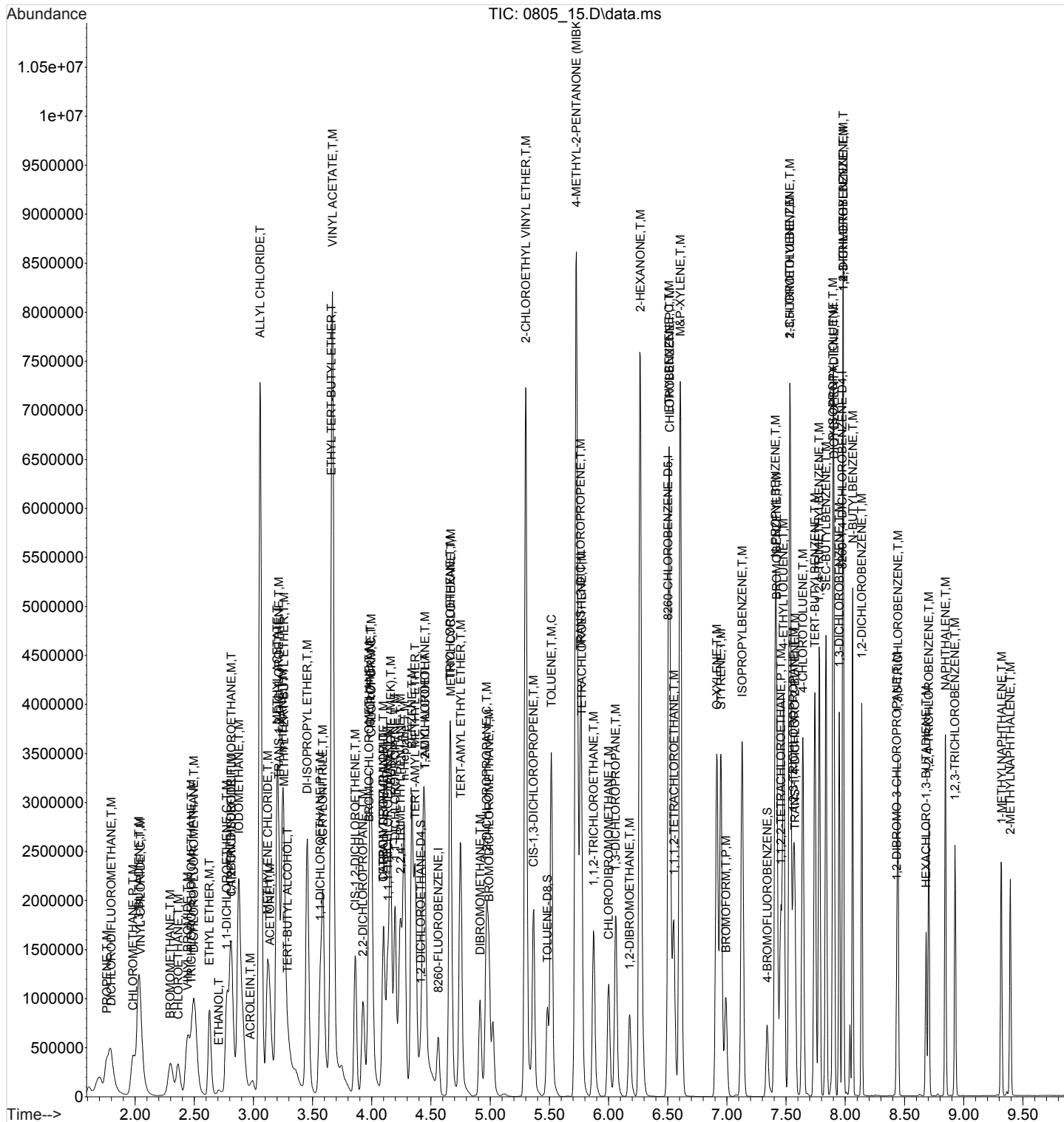
Quant Time: Aug 06 10:26:47 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 10:09:56 2020
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
104)	HEXACHLORO-1,3-BUTADIENE	8.683	225	157402	84.8440816	ppb	94
105)	NAPHTHALENE	8.847	128	1296051	79.2532256	ppb	100
106)	1,2,3-TRICHLOROBENZENE	8.927	180	362602	87.2409527	ppb	98
107)	1-METHYLNAPHTHALENE	9.320	142	560341	92.1587939	ppb	97
108)	2-METHYLNAPHTHALENE	9.394	142	496058	87.1836498	ppb	100

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

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_15.D
Acq On : 5 Aug 2020 11:13 pm
Operator : 988
Sample : STD VMS 75 ppb 20H05877
Misc : water IS/SURR20G06381
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS38

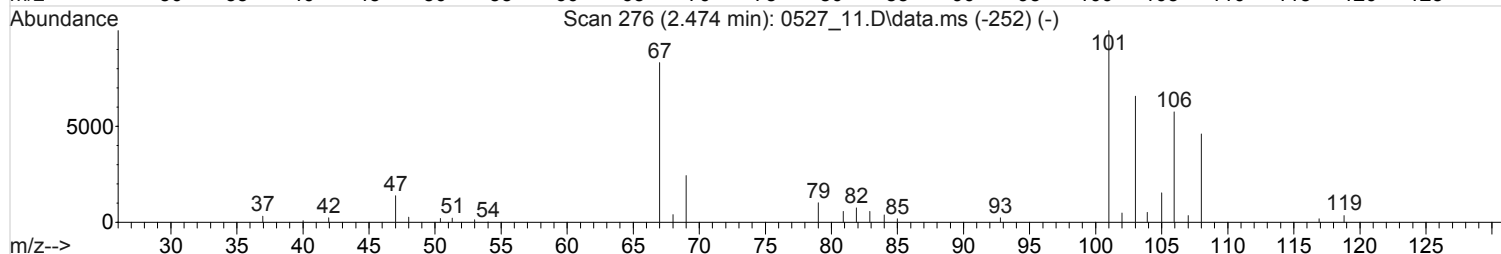
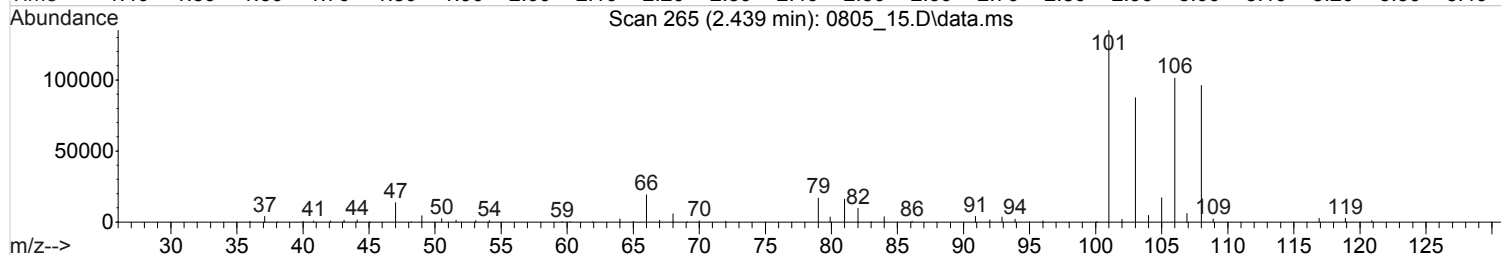
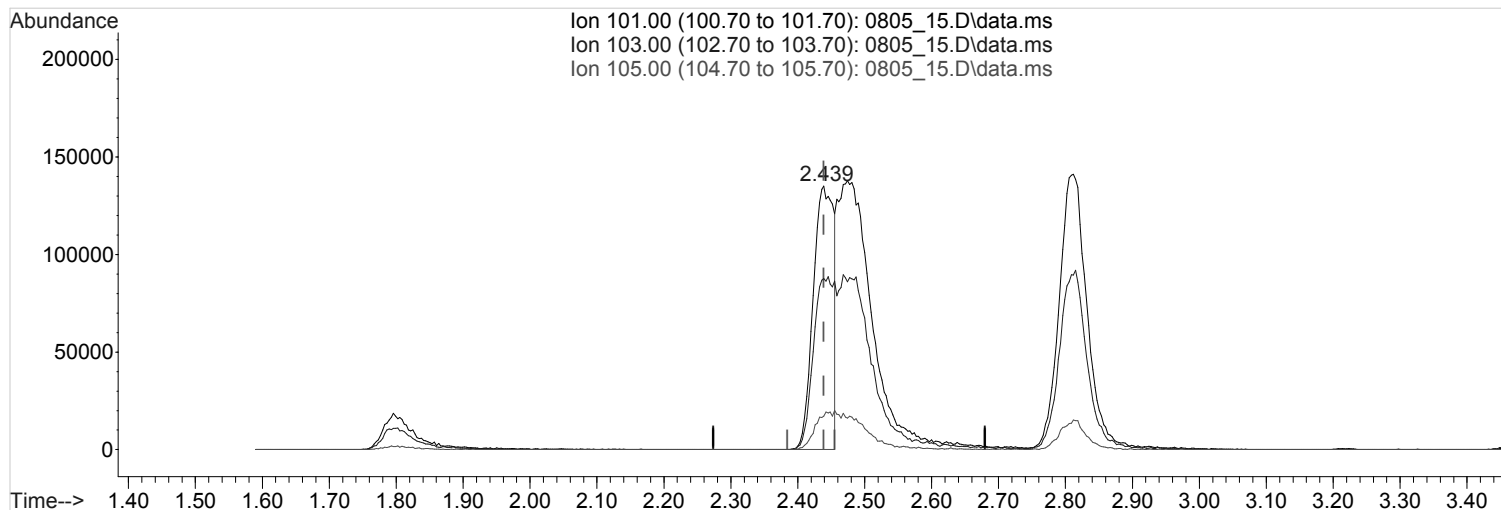
Quant Time: Aug 06 10:26:47 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 10:09:56 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_15.D
 Acq On : 5 Aug 2020 11:13 pm
 Operator : 988
 Sample : STD VMS 75 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 15 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:11:01 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_15.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.439min (+0.000) 31.0398955 ppb

Qvalue = 1

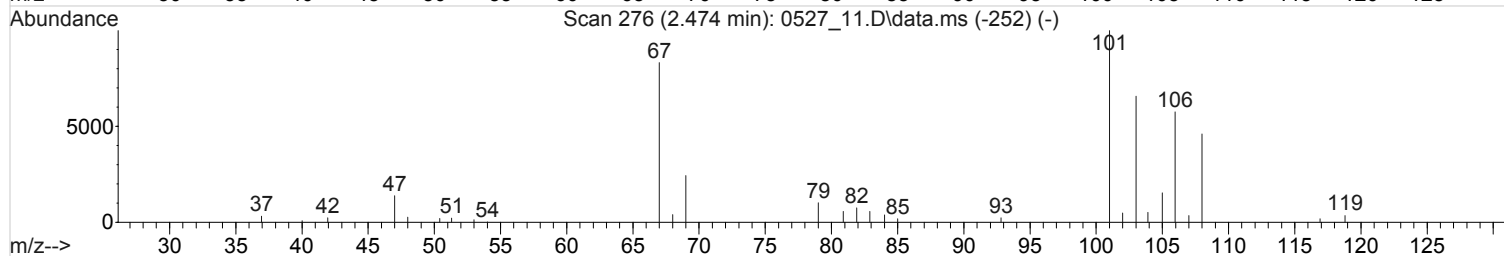
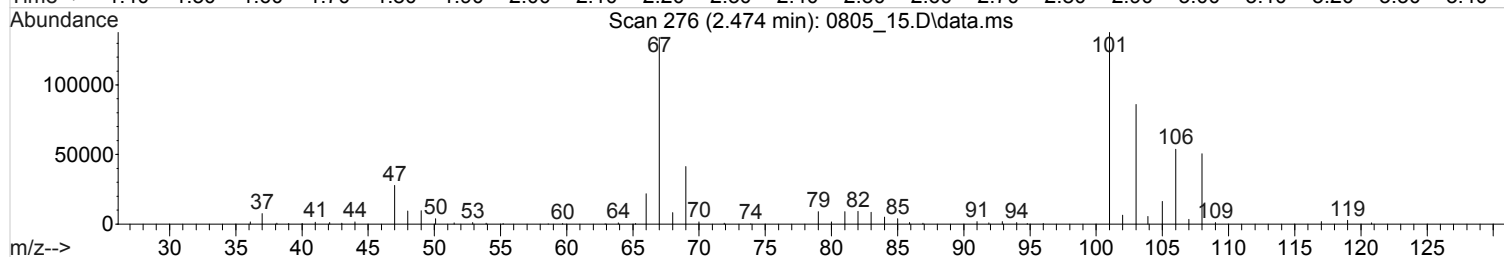
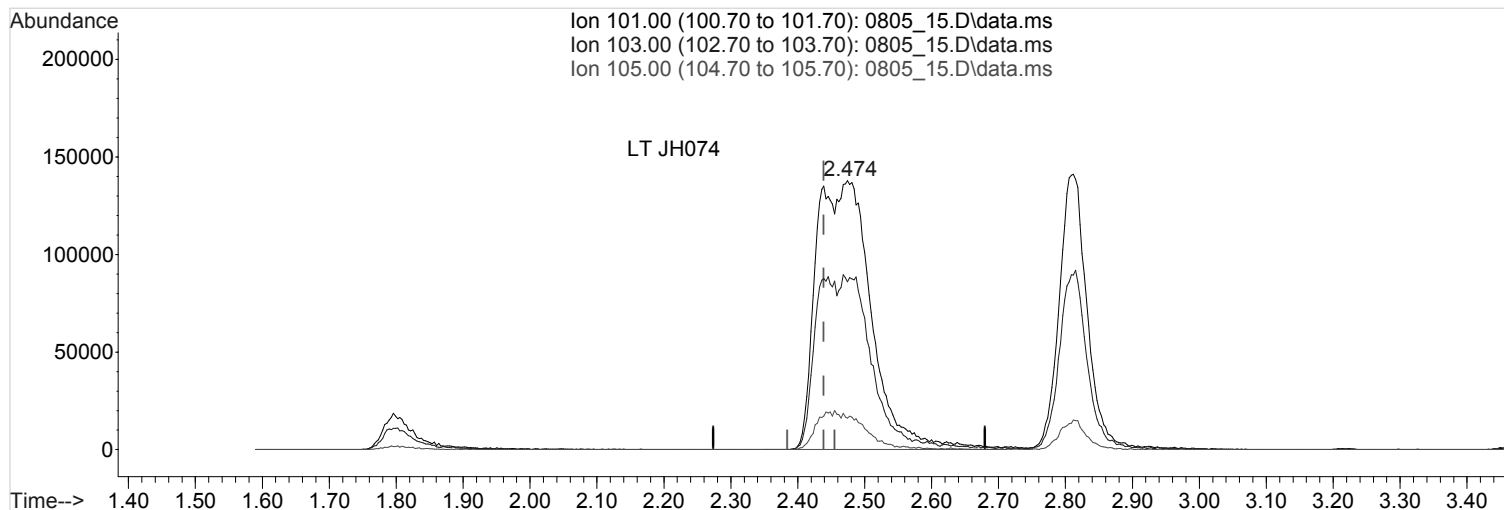
response 284564

Ion	Exp%	Act%
101.00	100	100
103.00	17.10	71.44#
105.00	4.20	12.10#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_15.D
 Acq On : 5 Aug 2020 11:13 pm
 Operator : 988
 Sample : STD VMS 75 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 15 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:11:01 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_15.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.474min (+0.035) 86.0114583 ppb m

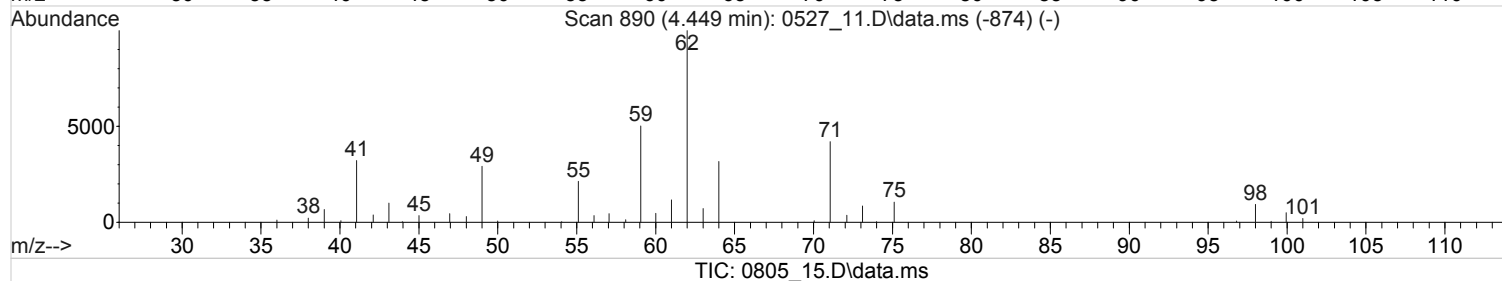
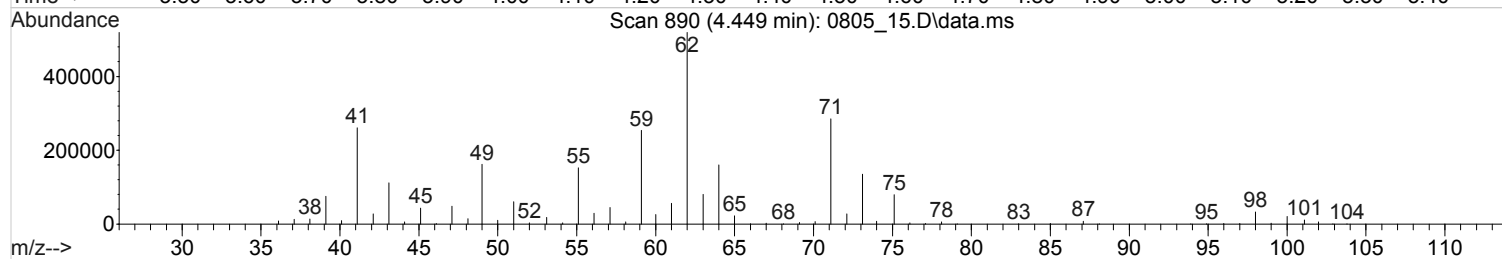
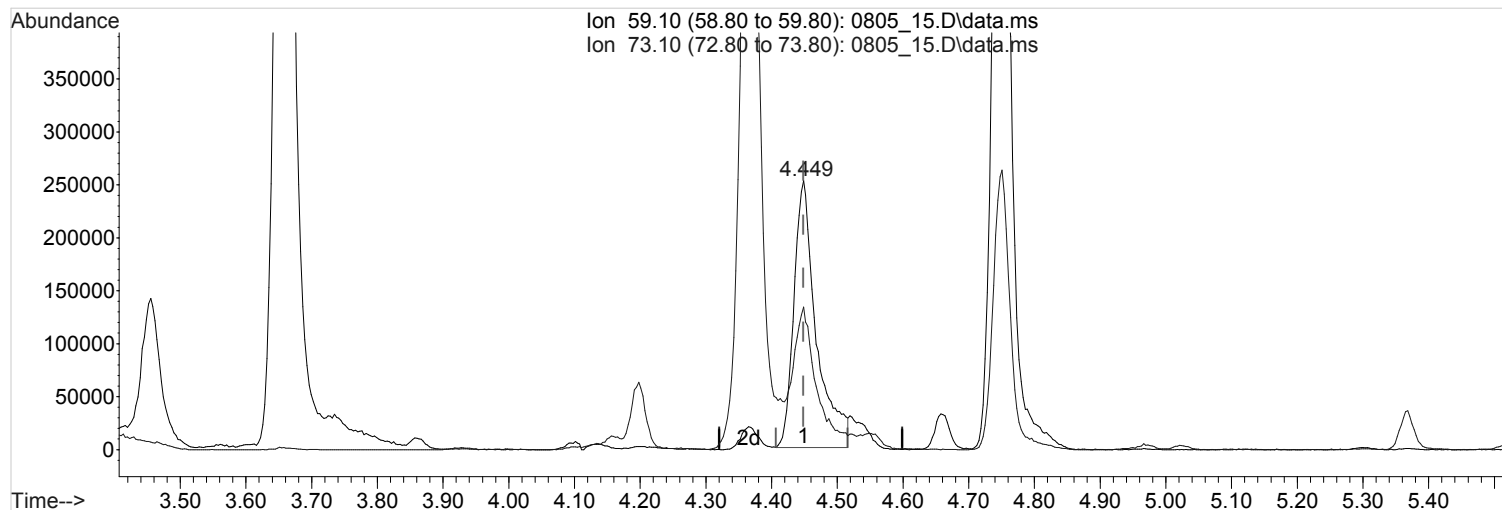
response 788526

Ion	Exp%	Act%
101.00	100	100
103.00	17.10	25.78#
105.00	4.20	4.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_15.D
Acq On : 5 Aug 2020 11:13 pm
Operator : 988
Sample : STD VMS 75 ppb 20H05877
Misc : water IS/SURR20G06381
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS38

Quant Time: Aug 06 10:11:01 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 10:09:56 2020
Response via : Initial Calibration



(50) T-AMYL ALCOHOL (T)

4.449min (+0.000) 444.1384675 ppb

Qvalue = 52

response 596430

Ion	Exp%	Act%
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59.10	100	100
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73.10	22.30	45.13#
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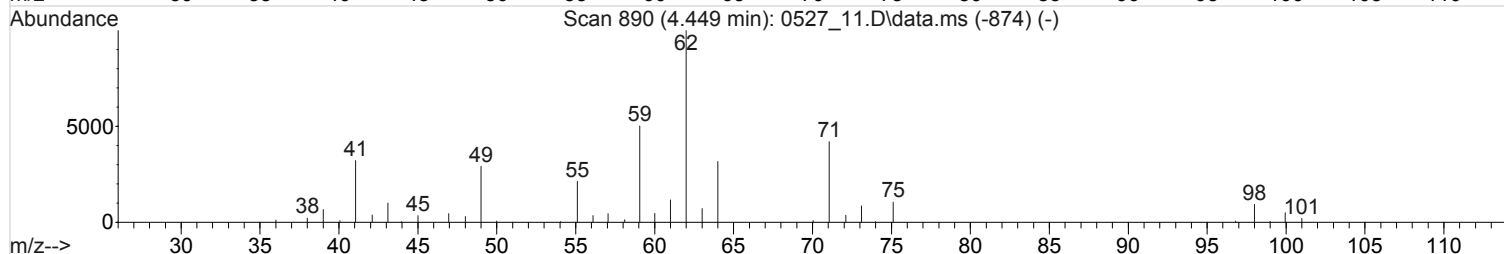
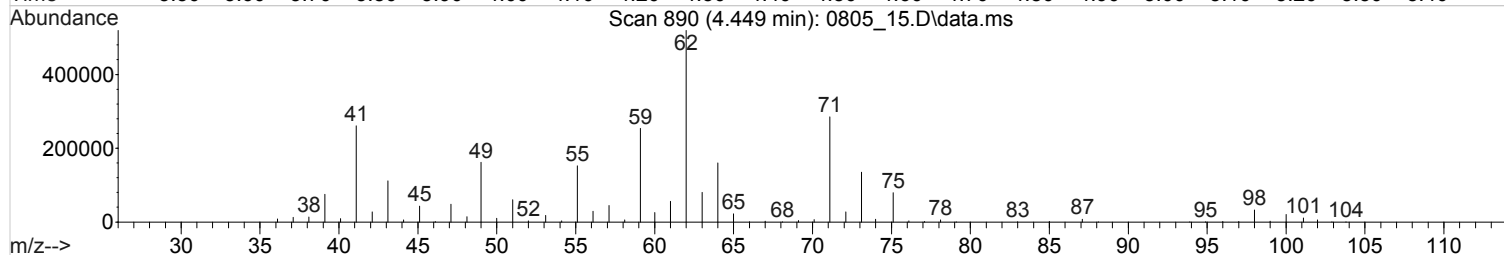
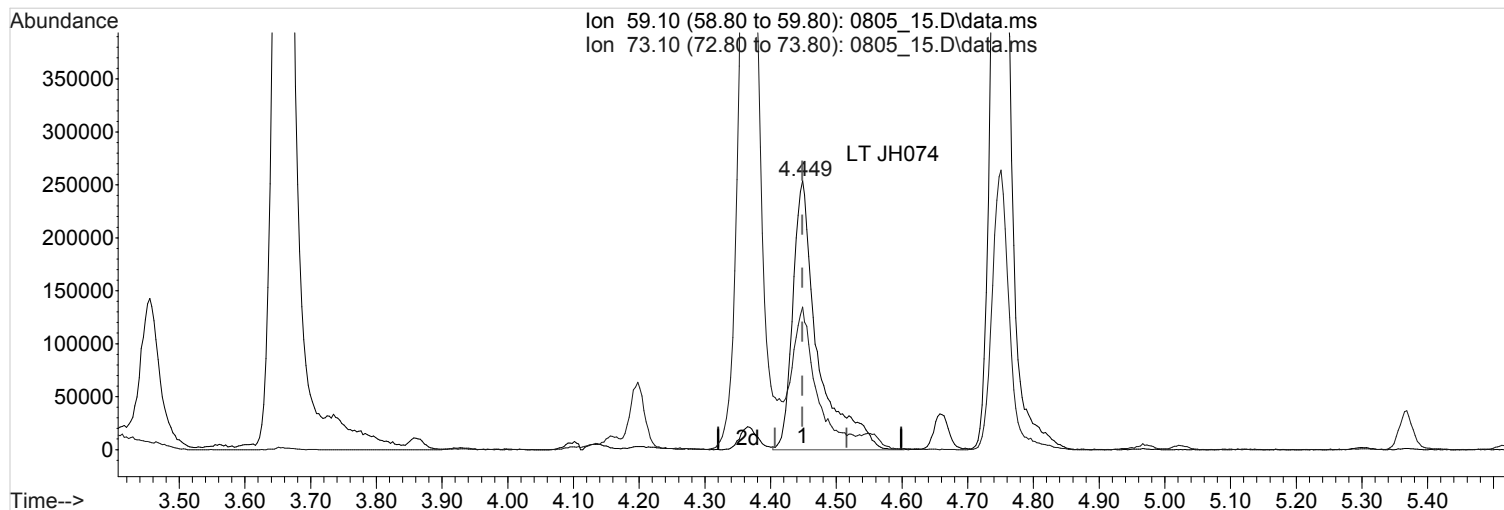
0.00	0.00	0.00
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_15.D
 Acq On : 5 Aug 2020 11:13 pm
 Operator : 988
 Sample : STD VMS 75 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 15 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:11:01 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_15.D\data.ms

(50) T-AMYL ALCOHOL (T)

4.449min (+0.000) 496.5626382 ppb m

response 666830

Ion	Exp%	Act%
-----	------	------

59.10	100	100
-------	-----	-----

73.10	22.30	40.36#
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0.00	0.00	0.00
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0.00	0.00	0.00
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Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_16.D
 Acq On : 5 Aug 2020 11:33 pm
 Operator : 988
 Sample : STD VMS 100 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 16 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:27:54 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	377523	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.506	82	185574	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.976	152	120817	16.0000000	ppb	# 0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.56
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.50
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.98
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.410	65	198911	20.1954857	ppb	0.00
Spiked Amount 16.000			Recovery	= 126.22%		
61) TOLUENE-D8	5.484	98	509497	21.9449268	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	= 137.16%#		
80) 4-BROMOFLUOROBENZENE	7.342	95	210735	22.0086442	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	= 137.55%#		
Target Compounds						
					Qvalue	
4) PROPENE	1.764	41	510317	167.5351825	ppb	# 91
5) DICHLORODIFLUOROMETHANE	1.793	85	838643	110.9490718	ppb	# 54
6) CHLOROMETHANE	1.982	50	1087784	110.5019767	ppb	# 90
7) VINYL CHLORIDE	2.050	62	892242	112.3087091	ppb	# 99
8) 1,3-BUTADIENE	2.030	39	784404	103.3819756	ppb	99
9) BROMOMETHANE	2.301	94	510614	106.2858462	ppb	# 96
10) CHLOROETHANE	2.368	64	487753	101.8831141	ppb	97
11) VINYL BROMIDE	2.452	106	441846	103.9051276	ppb	96
12) TRICHLOROFLUOROMETHANE	2.481	101	1041163m	109.1093483	ppb	
13) DICHLOROFLUOROMETHANE	2.497	67	1326165	100.6055830	ppb	98
14) ETHYL ETHER	2.629	59	694693	94.2635038	ppb	98
15) ACROLEIN	2.973	56	55173	508.1545548	ppb	# 1
16) ETHANOL	2.702	45	36239	2907.3916617	ppb	# 81
17) 1,1-DICHLOROETHENE	2.773	96	490064	106.0841002	ppb	98
18) 1,1,2-TRICHLOROTRIFLUO...	2.809	101	533739	109.4931611	ppb	# 97
19) ACETONE	3.140	43	889224	392.3543781	ppb	# 86
20) IODOMETHANE	2.876	142	4561127	512.0902859	ppb	98
21) CARBON DISULFIDE	2.812	76	1620037	108.6217085	ppb	99
22) ALLYL CHLORIDE	3.056	76	1628081	509.3647464	ppb	99
23) METHYLENE CHLORIDE	3.117	84	597004	95.6568263	ppb	94
24) METHYL ACETATE	3.198	43	3455555	380.8223761	ppb	# 97
25) ACRYLONITRILE	3.587	53	2481532	425.4026457	ppb	92
26) n-HEXANE	3.246	56	657014	106.9981654	ppb	# 100
27) TRANS-1,2-DICHLOROETHENE	3.214	96	554129	104.2681347	ppb	96
28) METHYL TERT-BUTYL ETHER	3.259	73	1988776	97.3077374	ppb	93
29) TERT-BUTYL ALCOHOL	3.281	59	369651	543.0709116	ppb	# 100
30) 1,1-DICHLOROETHANE	3.564	63	1355899	99.1105194	ppb	99
31) VINYL ACETATE	3.670	43	11596673	550.4448471	ppb	100
32) DI-ISOPROPYL ETHER	3.452	45	3049213	97.5547084	ppb	97
33) ETHYL TERT-BUTYL ETHER	3.657	59	2638173	99.1325545	ppb	100
34) 2,2-DICHLOROPROPANE	3.928	77	745849	95.6404812	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.860	96	619519	99.4499562	ppb	98
36) 2-BUTANONE (MEK)	4.159	43	3152807	429.6994330	ppb	94
37) BROMOCHLOROMETHANE	3.976	130	383698	90.5673153	ppb	98
38) TETRAHYDROFURAN	4.098	42	367140	68.9423470	ppb	96
39) CHLOROFORM	3.998	83	1221258	99.6876962	ppb	99
40) CYCLOHEXANE	3.989	84	844886	111.6787457	ppb	97
41) 1,1,1-TRICHLOROETHANE	4.133	97	1078471	105.0437534	ppb	97

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_16.D
 Acq On : 5 Aug 2020 11:33 pm
 Operator : 988
 Sample : STD VMS 100 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 16 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:27:54 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
42) CARBON TETRACHLORIDE	4.098	117	928677	100.1920486	ppb		99
43) 1,1-DICHLOROPROPENE	4.198	75	862987	103.2976657	ppb		98
44) 2,2,4-TRIMETHYLPENTANE	4.246	57	2167613	85.9513597	ppb	#	52
45) n-Heptane	4.275	71	495399	110.9170859	ppb	#	80
46) BENZENE	4.339	78	2492460	101.4465525	ppb		99
47) TERT-AMYL METHYL ETHER	4.368	73	1967285	97.3022545	ppb		97
49) 1,2-DICHLOROETHANE	4.452	62	1126256	95.8241088	ppb		99
50) T-AMYL ALCOHOL	4.445	59	740983	530.1150044	ppb	#	81
51) TRICHLOROETHENE	4.661	132	579130	102.0967431	ppb		98
52) METHYL CYCLOHEXANE	4.667	83	1007549	111.2701869	ppb		99
53) TERT-AMYL ETHYL ETHER	4.751	59	2049712	103.1035747	ppb		98
54) 1,2-DICHLOROPROPANE	4.969	62	548216	99.1767970	ppb		99
55) DIBROMOMETHANE	4.915	93	415684	97.2651769	ppb		98
56) BROMODICHLOROMETHANE	4.992	83	971088	101.5934516	ppb		99
57) 2-CHLOROETHYL VINYL ETHER	5.300	63	3401284	494.5998810	ppb		100
58) CIS-1,3-DICHLOROPROPENE	5.368	75	1119784	104.6856354	ppb	#	99
60) 4-METHYL-2-PENTANONE (...)	5.728	43	7759211	462.4707858	ppb		99
62) TOLUENE	5.516	91	2649068	105.3324680	ppb		98
63) TRANS-1,3-DICHLOROPROPENE	5.767	75	1151026	106.3147608	ppb		99
64) 1,1,2-TRICHLOROETHANE	5.876	97	584082	104.5578917	ppb		98
65) TETRACHLOROETHENE	5.770	164	518166	105.2114973	ppb		99
66) 1,3-DICHLOROPROPANE	6.062	76	1078727	99.6776453	ppb		98
67) 2-HEXANONE	6.268	58	3036509	485.3805196	ppb		95
68) CHLORODIBROMOMETHANE	6.001	129	712177	107.4447286	ppb		97
69) 1,2-DIBROMOETHANE	6.178	107	671488	103.2018740	ppb		97
70) CHLOROBENZENE	6.516	112	1587392	104.5994618	ppb		98
71) 1,1,1,2-TETRACHLOROETHANE	6.551	133	594873	104.6063746	ppb	#	94
72) ETHYLBENZENE	6.513	106	919913	108.1489125	ppb		97
73) M&P-XYLENE	6.606	106	2248156	211.0159455	ppb		99
74) O-XYLENE	6.915	106	1094629	104.8987581	ppb		97
77) STYRENE	6.950	104	1894167	111.8842412	ppb		99
78) BROMOFORM	6.992	173	589701	109.5458746	ppb		98
79) ISOPROPYLBENZENE	7.130	105	2952791	106.3894150	ppb		99
82) BROMOBENZENE	7.423	77	1387128	101.3260647	ppb		99
83) 1,1,2,2-TETRACHLOROETHANE	7.455	83	973168	100.7376445	ppb		98
84) 1,2,3-TRICHLOROPROPANE	7.561	110	312855	97.4349443	ppb		93
85) TRANS-1,4-DICHLORO-2-B...	7.577	53	418921	116.7188403	ppb	#	91
86) N-PROPYLBENZENE	7.410	91	3530362	107.3167388	ppb		99
87) 4-ETHYLTOLUENE	7.480	105	2966929	104.5724939	ppb		99
88) 2-CHLOROTOLUENE	7.535	91	2369310	103.1491869	ppb	#	95
89) 4-CHLOROTOLUENE	7.644	91	2242126	105.1076105	ppb		99
90) 1,3,5-TRIMETHYLBENZENE	7.532	105	2557593	106.5306742	ppb		99
91) TERT-BUTYLBENZENE	7.744	119	1889834	105.5601635	ppb		99
92) 1,2,4-TRIMETHYLBENZENE	7.783	105	2377304	104.9671728	ppb		99
93) SEC-BUTYLBENZENE	7.837	105	2681381	107.0380478	ppb		99
94) 1,3-DICHLOROBENZENE	7.950	146	1053505	105.8394117	ppb		99
95) P-ISOPROPYLTOLUENE	7.898	119	2206858	108.6792214	ppb		99
96) DICYCLOPENTADIENE	7.905	66	2989660	105.3758909	ppb		100
97) 1,4-DICHLOROBENZENE	7.982	146	1026722	105.6344473	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.982	105	1617555	102.8995765	ppb		98
99) 1,2-DICHLOROBENZENE	8.140	146	915358	106.7161500	ppb		97
100) N-BUTYLBENZENE	8.062	91	1892209	112.7084998	ppb		100
101) 1,2-DIBROMO-3-CHLOROPR...	8.439	157	192850	101.3121837	ppb		95
102) 1,3,5-TRICHLOROBENZENE	8.448	180	681080	118.4855584	ppb		98
103) 1,2,4-TRICHLOROBENZENE	8.709	180	610041	123.8457096	ppb		99

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_16.D
Acq On : 5 Aug 2020 11:33 pm
Operator : 988
Sample : STD VMS 100 ppb 20H05877
Misc : water IS/SURR20G06381
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS38

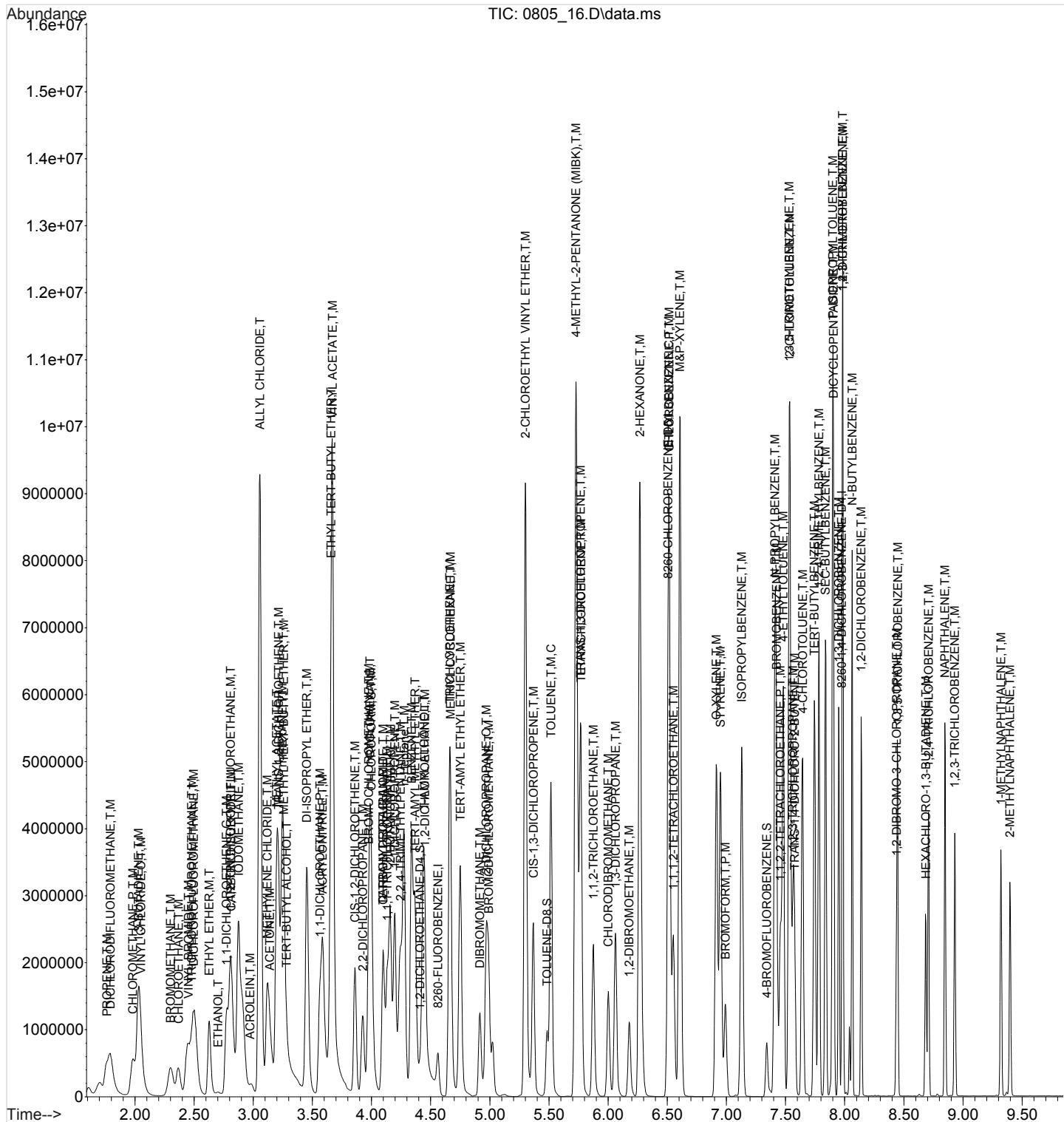
Quant Time: Aug 06 10:27:54 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 10:09:56 2020
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
104)	HEXACHLORO-1,3-BUTADIENE	8.686	225	263737	131.3633299	ppb	95
105)	NAPHTHALENE	8.847	128	1952013	110.2984327	ppb	100
106)	1,2,3-TRICHLOROBENZENE	8.931	180	561426	124.8172201	ppb	98
107)	1-METHYLNAPHTHALENE	9.320	142	851063	129.3414935	ppb	98
108)	2-METHYLNAPHTHALENE	9.397	142	729286	118.4383217	ppb	100

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

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_16.D
Acq On : 5 Aug 2020 11:33 pm
Operator : 988
Sample : STD VMS 100 ppb 20H05877
Misc : water IS/SURR20G06381
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS38

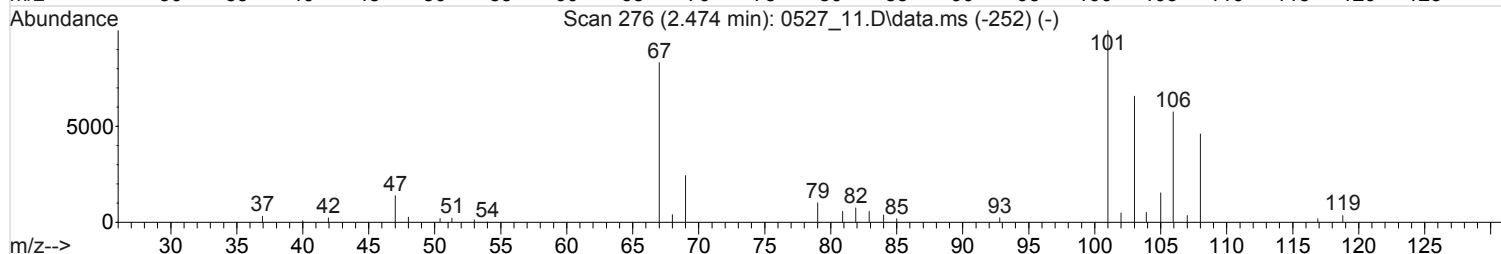
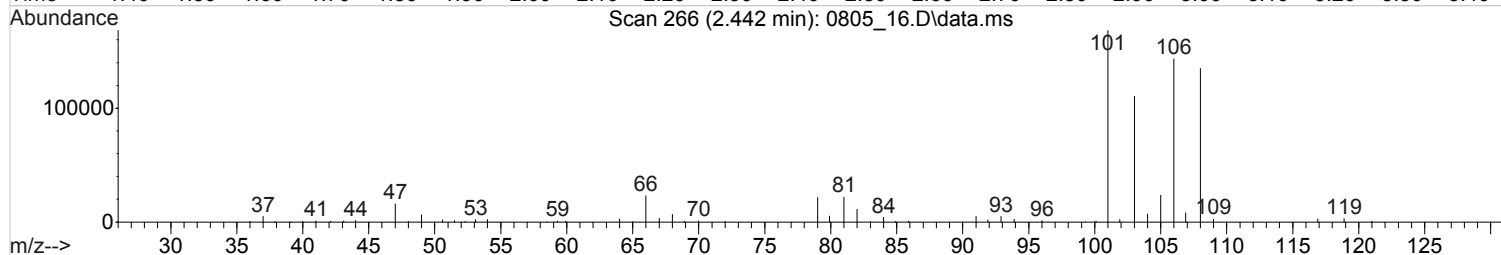
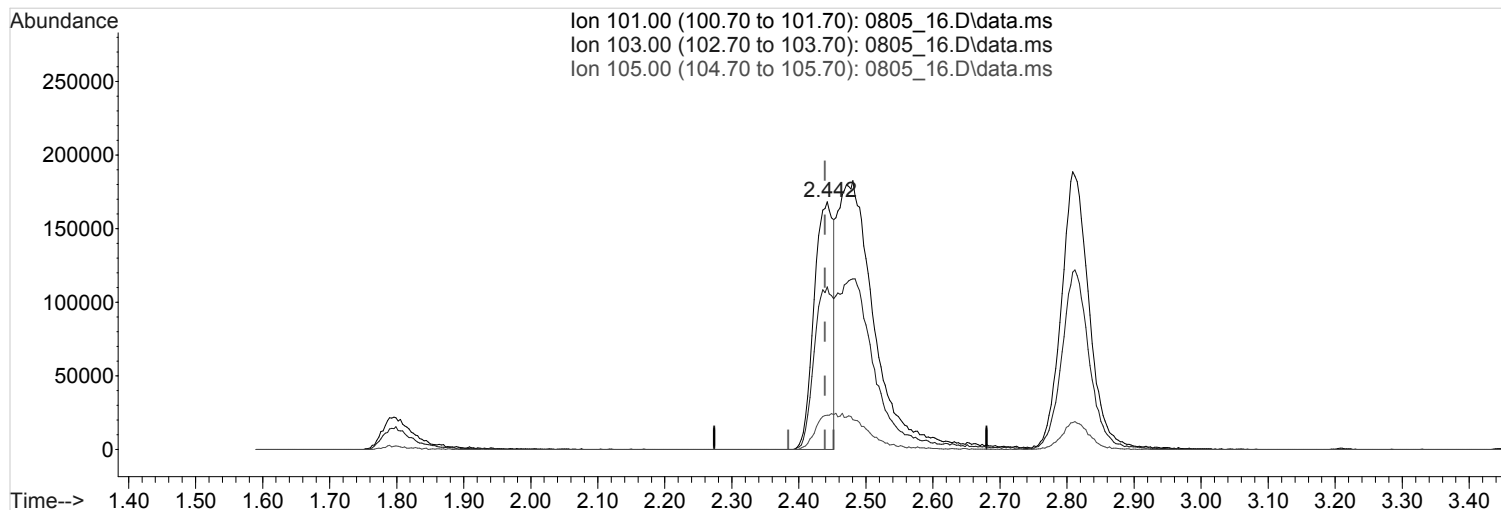
Quant Time: Aug 06 10:27:54 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 10:09:56 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_16.D
 Acq On : 5 Aug 2020 11:33 pm
 Operator : 988
 Sample : STD VMS 100 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 16 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:11:06 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_16.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.442min (+0.003) 34.6587493 ppb

Qvalue = 3

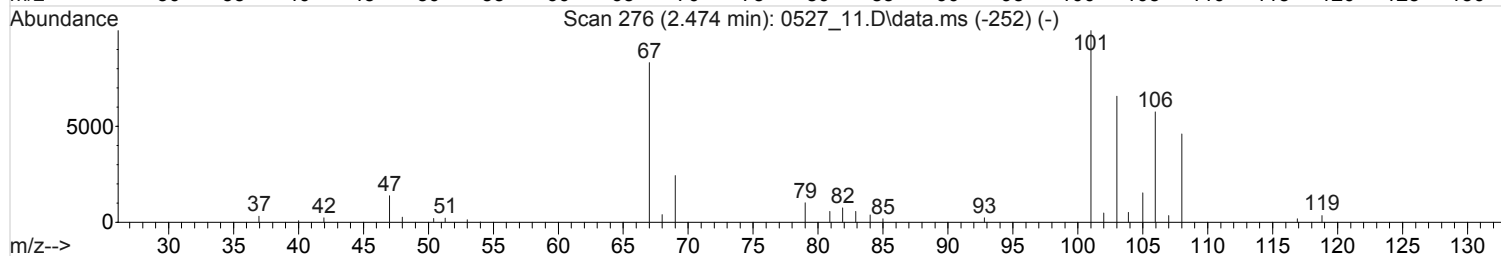
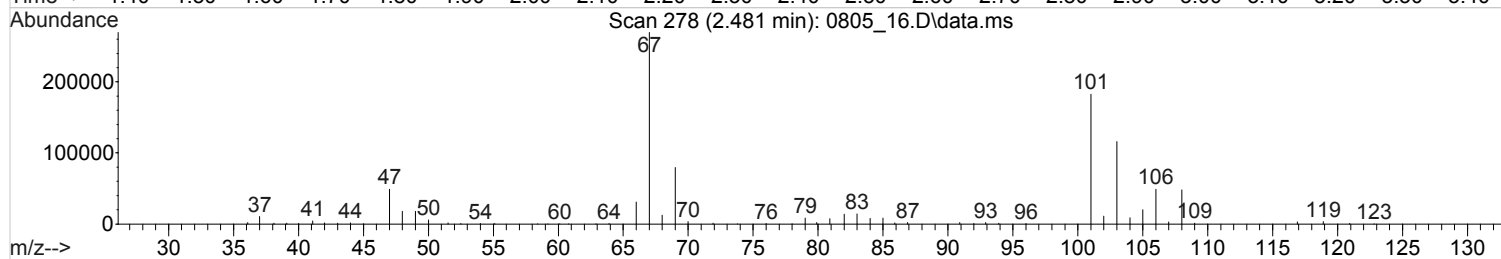
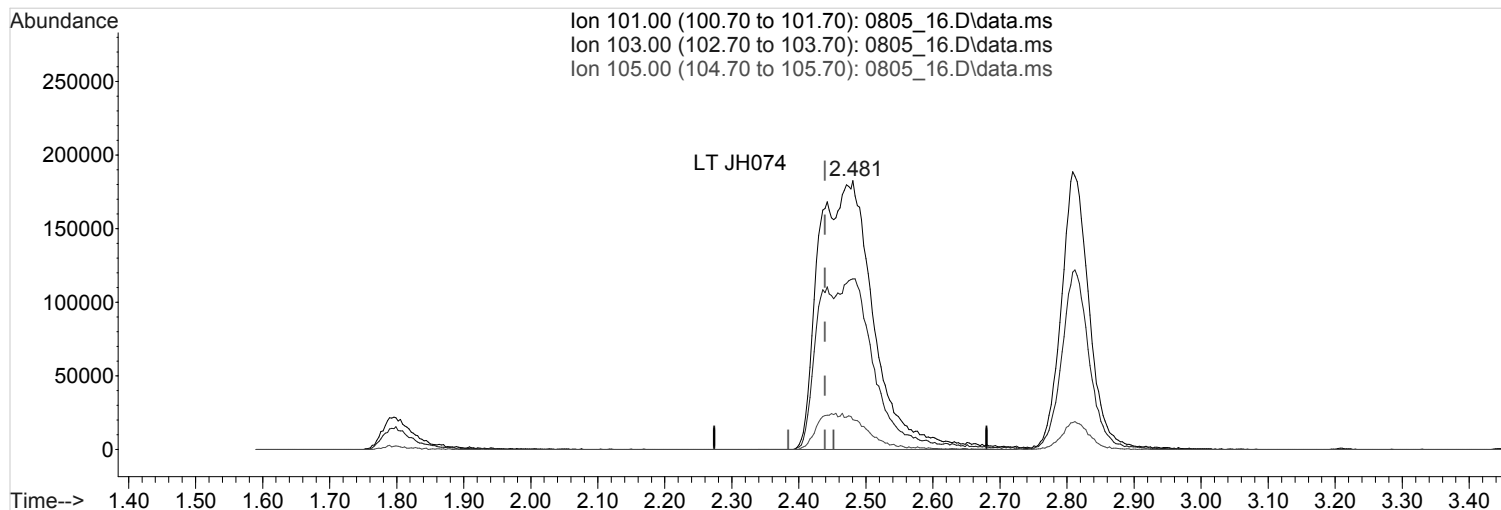
response 330727

Ion	Exp%	Act%
101.00	100	100
103.00	17.10	65.49#
105.00	4.20	17.63#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_16.D
 Acq On : 5 Aug 2020 11:33 pm
 Operator : 988
 Sample : STD VMS 100 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 16 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:11:06 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_16.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.481min (+0.042) 109.1093483 ppb m

response 1041163

Ion	Exp%	Act%
101.00	100	100
103.00	17.10	20.80#
105.00	4.20	5.60#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_17.D
 Acq On : 5 Aug 2020 11:52 pm
 Operator : 988
 Sample : STD VMS 200 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 17 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:29:46 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) 8260-FLUOROBENZENE	4.564	96	363547	16.0000000	ppb	0.00	
59) 8260-CHLOROBENZENE-D5	6.506	82	179775	16.0000000	ppb	0.00	
81) 8260-1,4-DICHLOROBENZE...	7.979	152	117851	16.0000000	ppb	# 0.00	
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.56	
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.50	
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.98	
System Monitoring Compounds							
48) 1,2-DICHLOROETHANE-D4	4.413	65	179121	18.8853421	ppb	0.00	
Spiked Amount 16.000			Recovery	= 118.03%			
61) TOLUENE-D8	5.484	98	518742	23.0638470	ppb	0.00	
Spiked Amount 16.000	Range	90 - 115	Recovery	= 144.15%#			
80) 4-BROMOFLUOROBENZENE	7.342	95	215054	23.1841925	ppb	0.00	
Spiked Amount 16.000	Range	80 - 120	Recovery	= 144.90%#			
Target Compounds						Qvalue	
4) PROPENE	1.764	41	941562	320.9946249	ppb	# 92	
5) DICHLORODIFLUOROMETHANE	1.799	85	1960326	269.3132353	ppb	# 54	
6) CHLOROMETHANE	1.989	50	2102204	221.7609579	ppb	# 93	
7) VINYL CHLORIDE	2.050	62	1755699	229.4899571	ppb	# 98	
8) 1,3-BUTADIENE	2.031	39	1240954	169.8414001	ppb	100	
9) BROMOMETHANE	2.297	94	985908	213.1090815	ppb	# 97	
10) CHLOROETHANE	2.368	64	963305	208.9531518	ppb	96	
11) VINYL BROMIDE	2.452	106	696624	170.1168511	ppb	95	
12) TRICHLOROFLUOROMETHANE	2.477	101	2077816m	226.1169778	ppb		
13) DICHLOROFLUOROMETHANE	2.500	67	2684039	211.4444025	ppb	97	
14) ETHYL ETHER	2.629	59	1129565	159.1639591	ppb	100	
15) ACROLEIN	2.976	56	125635	1201.6077425	ppb	# 1	
16) ETHANOL	2.709	45	245802	20478.3800257	ppb	# 65	
17) 1,1-DICHLOROETHENE	2.776	96	770068	173.1049248	ppb	97	
18) 1,1,2-TRICHLOROTRIFLUO...	2.812	101	854426	182.0184293	ppb	# 96	
19) ACETONE	3.140	43	1761549	807.1326317	ppb	93	
21) CARBON DISULFIDE	2.812	76	2291415	159.5431998	ppb	98	
22) ALLYL CHLORIDE	3.056	76	2513358	816.5637185	ppb	95	
23) METHYLENE CHLORIDE	3.120	84	875980	145.7524179	ppb	97	
24) METHYL ACETATE	3.198	43	5775985	661.0184108	ppb	# 97	
25) ACRYLONITRILE	3.587	53	3815311	679.1928443	ppb	90	
26) n-HEXANE	3.246	56	955960	161.6680792	ppb	# 97	
27) TRANS-1,2-DICHLOROETHENE	3.214	96	836582	163.4677524	ppb	96	
28) METHYL TERT-BUTYL ETHER	3.259	73	3186744	161.9166580	ppb	98	
29) TERT-BUTYL ALCOHOL	3.288	59	794786	1212.5445802	ppb	# 100	
30) 1,1-DICHLOROETHANE	3.564	63	2135109	162.0672687	ppb	99	
32) DI-ISOPROPYL ETHER	3.455	45	5064500	168.2596179	ppb	100	
33) ETHYL TERT-BUTYL ETHER	3.657	59	4307368	168.0768320	ppb	100	
34) 2,2-DICHLOROPROPANE	3.928	77	1118007	148.8737793	ppb	98	
35) CIS-1,2-DICHLOROETHENE	3.860	96	987523	164.6190289	ppb	95	
36) 2-BUTANONE (MEK)	4.159	43	5934158	839.8647431	ppb	# 93	
37) BROMOCHLOROMETHANE	3.976	130	592163	145.1463359	ppb	98	
38) TETRAHYDROFURAN	4.098	42	638079	124.4261496	ppb	96	
39) CHLOROFORM	3.998	83	1973132	167.2526965	ppb	100	
40) CYCLOHEXANE	3.989	84	1290995	177.2065721	ppb	97	
41) 1,1,1-TRICHLOROETHANE	4.133	97	1692114	171.1489461	ppb	98	
42) CARBON TETRACHLORIDE	4.098	117	1463359	163.9465568	ppb	99	
43) 1,1-DICHLOROPROPENE	4.198	75	1371407	170.4650956	ppb	98	

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_17.D
 Acq On : 5 Aug 2020 11:52 pm
 Operator : 988
 Sample : STD VMS 200 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 17 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:29:46 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
44) 2,2,4-TRIMETHYLPENTANE	4.252	57	2487760	102.4382936	ppb	#	52
45) n-Heptane	4.275	71	724514	168.4507533	ppb	#	60
46) BENZENE	4.339	78	3941181	166.5782618	ppb		98
47) TERT-AMYL METHYL ETHER	4.368	73	3292089	169.0869305	ppb		96
49) 1,2-DICHLOROETHANE	4.452	62	1815805	160.4315315	ppb		99
50) T-AMYL ALCOHOL	4.448	59	1334924	991.7477955	ppb	#	32
51) TRICHLOROETHENE	4.661	132	960754	175.8858400	ppb		98
52) METHYL CYCLOHEXANE	4.667	83	1543372	176.9970827	ppb		98
53) TERT-AMYL ETHYL ETHER	4.751	59	3564750	186.2056297	ppb		99
54) 1,2-DICHLOROPROPANE	4.969	62	919555	172.7503484	ppb		99
55) DIBROMOMETHANE	4.915	93	694320	168.7083579	ppb		98
56) BROMODICHLOROMETHANE	4.992	83	1686090	183.1769110	ppb		99
57) 2-CHLOROETHYL VINYL ETHER	5.304	63	6095333	920.4313421	ppb		100
58) CIS-1,3-DICHLOROPROPENE	5.368	75	1962965	190.5672390	ppb	#	99
60) 4-METHYL-2-PENTANONE (...)	5.731	43	13967799	859.3746725	ppb		98
62) TOLUENE	5.519	91	4490087	184.2942313	ppb		98
63) TRANS-1,3-DICHLOROPROPENE	5.767	75	2084163	198.7137622	ppb		99
64) 1,1,2-TRICHLOROETHANE	5.876	97	1084141	200.3348917	ppb		98
65) TETRACHLOROETHENE	5.770	164	851161	178.3995834	ppb		99
66) 1,3-DICHLOROPROPANE	6.063	76	1942668	185.2988137	ppb		99
67) 2-HEXANONE	6.268	58	5922948	977.3126517	ppb		93
68) CHLORODIBROMOMETHANE	6.001	129	1322060	205.8904327	ppb		96
69) 1,2-DIBROMOETHANE	6.181	107	1194902	189.5699289	ppb		97
70) CHLOROBENZENE	6.519	112	2886623	196.3464990	ppb		99
71) 1,1,1,2-TETRACHLOROETHANE	6.551	133	1089937	197.8441076	ppb	#	94
72) ETHYLBENZENE	6.513	106	1647464	199.9305520	ppb		98
73) M&P-XYLENE	6.609	106	4052587	392.6530804	ppb		99
74) O-XYLENE	6.918	106	1992099	197.0616641	ppb		97
77) STYRENE	6.950	104	3602650	219.6648450	ppb		99
78) BROMOFORM	6.992	173	1167039	223.7882932	ppb		98
79) ISOPROPYLBENZENE	7.130	105	5513480	205.0592419	ppb		99
82) BROMOBENZENE	7.423	77	2652542	198.6377020	ppb		99
83) 1,1,2,2-TETRACHLOROETHANE	7.455	83	1940356	205.9112928	ppb		98
84) 1,2,3-TRICHLOROPROPANE	7.564	110	597798	190.8626170	ppb		91
85) TRANS-1,4-DICHLORO-2-B...	7.577	53	818869	233.8934383	ppb	#	90
86) N-PROPYLBENZENE	7.413	91	6751151	210.3879317	ppb		99
87) 4-ETHYLTOLUENE	7.480	105	5640355	203.8034476	ppb		99
88) 2-CHLOROTOLUENE	7.535	91	4505808	201.0996797	ppb		95
89) 4-CHLOROTOLUENE	7.644	91	4332203	208.1985606	ppb		99
90) 1,3,5-TRIMETHYLBENZENE	7.535	105	4868767	207.9012056	ppb		99
91) TERT-BUTYLBENZENE	7.744	119	3692380	211.4353319	ppb		99
92) 1,2,4-TRIMETHYLBENZENE	7.783	105	4609291	208.6400518	ppb		98
93) SEC-BUTYLBENZENE	7.841	105	5306871	217.1765643	ppb		100
94) 1,3-DICHLOROBENZENE	7.950	146	2069861	213.1801549	ppb		99
95) P-ISOPROPYLTOLUENE	7.898	119	4337668	218.9894603	ppb		99
96) DICYCLOPENTADIENE	7.905	66	5637561	203.7067819	ppb		100
97) 1,4-DICHLOROBENZENE	7.985	146	2027710	213.8716969	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.982	105	3216163	209.7429433	ppb		99
99) 1,2-DICHLOROBENZENE	8.140	146	1843168	220.2920705	ppb		97
100) N-BUTYLBENZENE	8.062	91	3823904	233.5013100	ppb		100
101) 1,2-DIBROMO-3-CHLOROPR...	8.435	157	377695	203.4126905	ppb		95
102) 1,3,5-TRICHLOROBENZENE	8.448	180	1309951	233.6238188	ppb		99
103) 1,2,4-TRICHLOROBENZENE	8.709	180	1192027	248.0863158	ppb		98
104) HEXACHLORO-1,3-BUTADIENE	8.686	225	509675	260.2502732	ppb		95
105) NAPHTHALENE	8.850	128	3946377	228.6019773	ppb		100

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_17.D
Acq On : 5 Aug 2020 11:52 pm
Operator : 988
Sample : STD VMS 200 ppb 20H05877
Misc : water IS/SURR20G06381
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS38

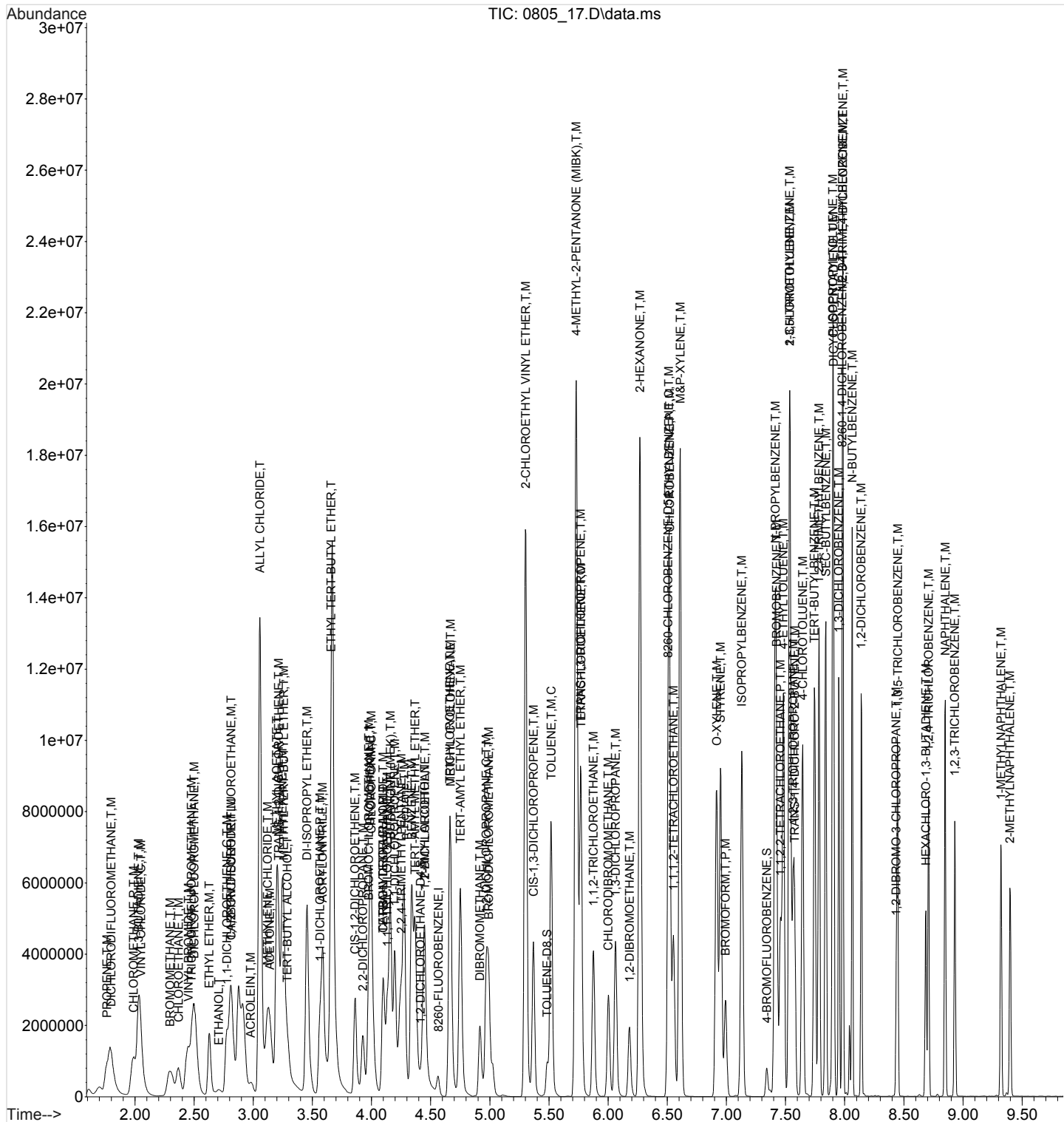
Quant Time: Aug 06 10:29:46 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 10:09:56 2020
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
106)	1,2,3-TRICHLOROBENZENE	8.931	180	1091252	248.7149052	ppb	99
107)	1-METHYLNAPHTHALENE	9.320	142	1663158	259.1220950	ppb	99
108)	2-METHYLNAPHTHALENE	9.397	142	1414418	235.4869899	ppb	100

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

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_17.D
Acq On : 5 Aug 2020 11:52 pm
Operator : 988
Sample : STD VMS 200 ppb 20H05877
Misc : water IS/SURR20G06381
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS38

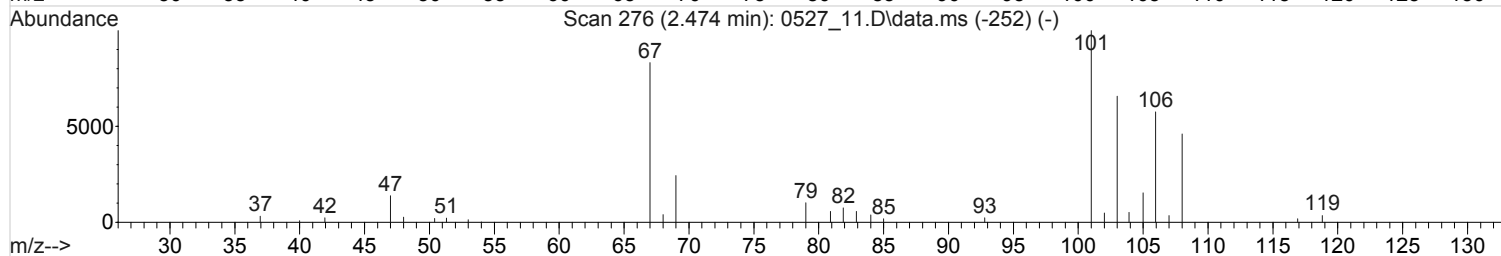
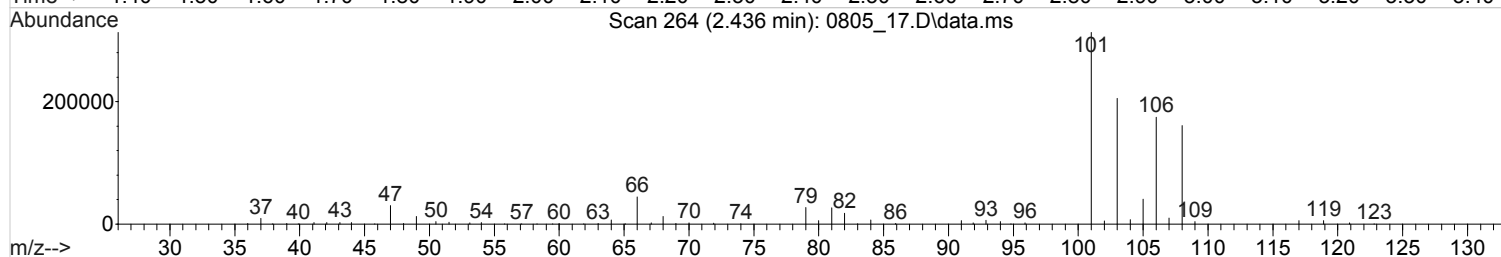
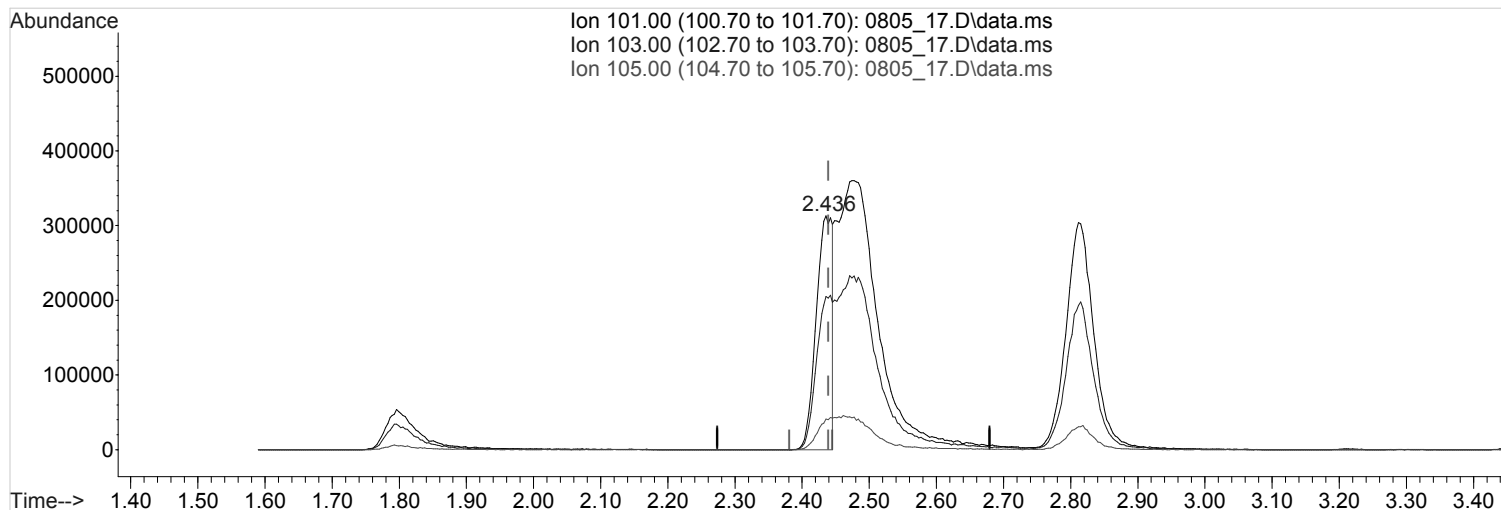
Quant Time: Aug 06 10:29:46 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 10:09:56 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_17.D
 Acq On : 5 Aug 2020 11:52 pm
 Operator : 988
 Sample : STD VMS 200 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 17 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:11:11 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_17.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.436min (-0.003) 57.0544308 ppb

Qvalue = 1

response 524280

Ion	Exp%	Act%
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101.00	100	100
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103.00	17.10	79.77#
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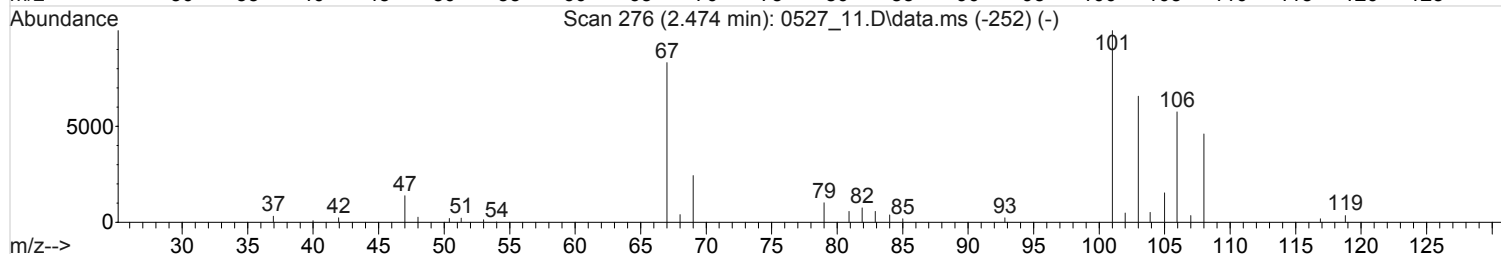
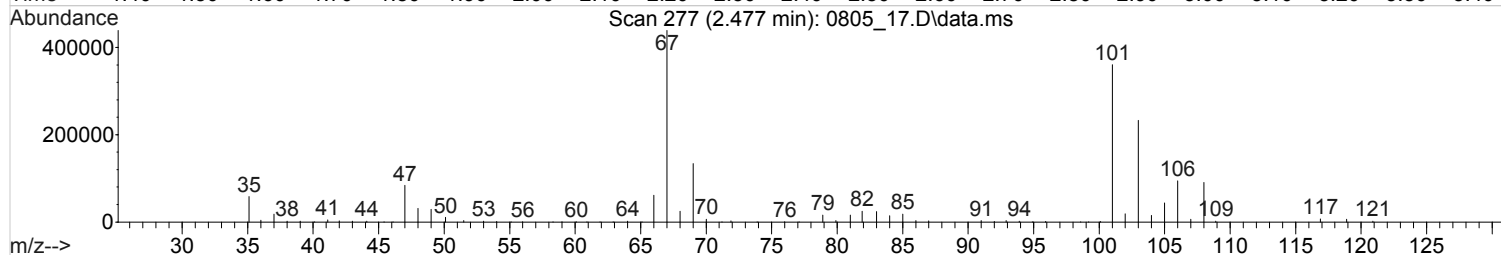
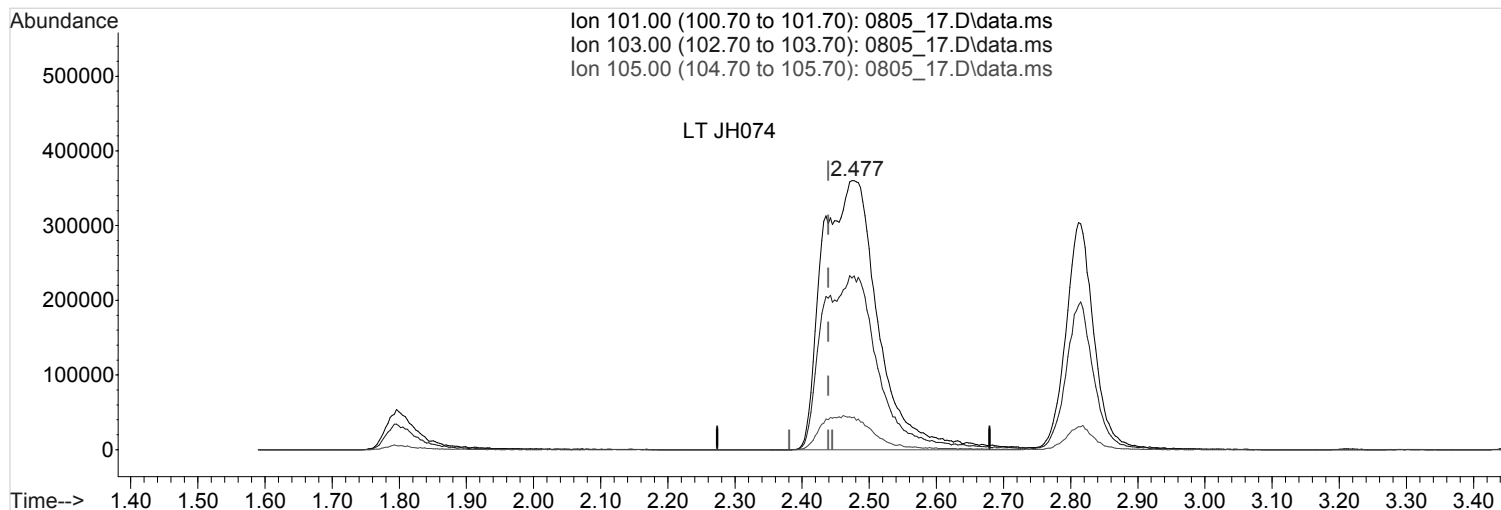
105.00	4.20	0.00#
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0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_17.D
 Acq On : 5 Aug 2020 11:52 pm
 Operator : 988
 Sample : STD VMS 200 ppb 20H05877
 Misc : water IS/SURR20G06381
 ALS Vial : 17 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 10:11:11 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 10:09:56 2020
 Response via : Initial Calibration



TIC: 0805_17.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.477min (+0.039) 226.1169778 ppb m

response 2077816

Ion	Exp%	Act%
101.00	100	100
103.00	17.10	20.13
105.00	4.20	0.00#
0.00	0.00	0.00



7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1253445	Calibration (begin) date/time:	07/30/20 23:48
Instrument ID:	VOCMS35	Calibration (end) date/time:	08/06/20 01:48
Lab File ID:	0805A_19	Analysis date/time:	08/06/20 03:09
Analytical Method:	8260B	Sample ID:	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
1,1,1,2-TETRACHLOROETHANE	0.682638	0.67617510		0.9470	40	0.0050	0.004953	99.10	75 - 122
1,1,1-TRICHLOROETHANE	0.425759	0.39642910		6.89	40	0.0050	0.004656	93.10	70 - 130
1,1,2,2-TETRACHLOROETHANE	0.646172	0.55758460	0.30	13.70	40	0.0050	0.004315	86.30	60 - 140
1,1,2-TRICHLOROETHANE	0.696381	0.68499120		1.64	40	0.0050	0.004918	98.40	78 - 120
1,1,2-TRICHLOROTRIFLUOROETHANE	0.222446	0.18924910		14.90	40	0.0050	0.004254	85.10	61 - 136
1,1-DICHLOROETHANE	0.514011	0.50102650	0.10	2.53	40	0.0050	0.004874	97.50	70 - 130
1,1-DICHLOROETHENE	0.214269	0.21546760		0.5590	20.49	0.0050	0.005028	101	50 - 150
1,1-DICHLOROPROPENE	0.345475	0.32986110		4.52	40	0.0050	0.004774	95.50	71 - 129
1,2,3-TRICHLOROBENZENE	1.088155	1.043655		4.09	40	0.0050	0.004796	95.90	61 - 133
1,2,3-TRICHLOROPROPANE	0.188233	0.17567080		6.67	40	0.0050	0.004666	93.30	72 - 124
1,2,3-TRIMETHYLBENZENE	2.162839	2.326098		7.55	40	0.0050	0.005377	108	75 - 120
1,2,4-TRICHLOROBENZENE	1.164578	1.063548		8.68	40	0.0050	0.004566	91.30	69 - 129
1,2,4-TRIMETHYLBENZENE	1.658127	1.568498		5.41	40	0.0050	0.004730	94.60	75 - 120
1,2-DIBROMO-3-CHLOROPROPANE	0.345408	0.29477580		14.70	40	0.0050	0.004267	85.30	58 - 134
1,2-DIBROMOETHANE	0.760939	0.76891370		1.05	40	0.0050	0.005052	101	77 - 123
1,2-DICHLOROBENZENE	1.770811	1.658397		6.35	40	0.0050	0.004683	93.70	65 - 135
1,2-DICHLOROETHANE	0.429716	0.41111380		4.33	40	0.0050	0.004784	95.70	70 - 130
1,2-DICHLOROPROPANE	0.193053	0.20286440		5.08	20.49	0.0050	0.005254	105	35 - 165
1,3,5-TRIMETHYLBENZENE	1.503652	1.377668		8.38	40	0.0050	0.004581	91.60	75 - 120
1,3-DICHLOROBENZENE	1.470352	1.414383		3.81	40	0.0050	0.004810	96.20	70 - 130
1,3-DICHLOROPROPANE	1.109653	1.101939		0.6950	40	0.0050	0.004965	99.30	80 - 121
1,4-DICHLOROBENZENE	1.680753	1.540279		8.36	40	0.0050	0.004582	91.60	65 - 135
2,2-DICHLOROPROPANE	0.301751	0.26524080		12.10	40	0.0050	0.004395	87.90	60 - 125
2-BUTANONE (MEK)	0.192750	0.19570160		1.53	40	0.0250	0.02538	102	44 - 160
2-CHLOROTOLUENE	1.426251	1.259972		11.70	40	0.0050	0.004417	88.30	74 - 122
4-CHLOROTOLUENE	1.307495	1.155646		11.60	40	0.0050	0.004419	88.40	79 - 120
4-METHYL-2-PENTANONE (MIBK)	1.080988	1.044315		3.39	40	0.0250	0.02415	96.60	68 - 142
ACETONE	0.096956	0.09692653		0.0304	40	0.0250	0.02499	100	19 - 160
ACROLEIN	0.019954	0.03045973		52.60	40	0.0250	0.03436	137	10 - 160
ACRYLONITRILE	0.126656	0.13471520		6.36	40	0.0250	0.02659	106	60 - 140
BENZENE	1.102518	1.066664		3.25	40	0.0050	0.004837	96.70	65 - 135
BROMOBENZENE	0.821016	0.73435430		10.60	40	0.0050	0.004472	89.40	79 - 120
BROMODICHLOROMETHANE	0.385526	0.397995		3.23	40	0.0050	0.005162	103	65 - 135
BROMOFORM	0.615001	0.55095750	0.10	10.40	40	0.0050	0.004479	89.60	70 - 130
BROMOMETHANE	0.555747	0.45494820		18.10	40	0.0050	0.004093	81.90	10 - 160
CARBON TETRACHLORIDE	0.399272	0.36928440		7.51	40	0.0050	0.004624	92.50	70 - 130
CHLOROBENZENE	2.058235	1.864556	0.30	9.41	40	0.0050	0.004530	90.60	65 - 135
CHLORODIBROMOMETHANE	0.776544	0.810451		4.37	40	0.0050	0.005218	104	70 - 135
CHLOROETHANE	0.349933	0.31579710		9.75	40	0.0050	0.004512	90.20	47 - 150
CHLOROFORM	0.526607	0.51886190		1.47	20.49	0.0050	0.004926	98.50	70 - 130
CHLOROMETHANE	0.415125	0.40074480	0.10	3.46	40	0.0050	0.005360	107	0.0010 - 205
CIS-1,2-DICHLOROETHENE	0.308178	0.30899890		0.2660	40	0.0050	0.005013	100	73 - 120
CIS-1,3-DICHLOROPROPENE	0.431131	0.44625010		3.51	40	0.0050	0.005175	104	25 - 175
DI-ISOPROPYL ETHER	0.936677	0.94938660		1.36	40	0.0050	0.005068	101	59 - 133
DIBROMOMETHANE	0.217509	0.207476		4.61	40	0.0050	0.004769	95.40	78 - 120
DICHLORODIFLUOROMETHANE	0.311275	0.23333180		25	40	0.0050	0.003748	75	51 - 149
ETHYLBENZENE	1.036364	0.94777870		8.55	20.49	0.0050	0.004573	91.50	60 - 140



7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1253445	Calibration (begin) date/time:	07/30/20 23:48
Instrument ID:	VOCMS35	Calibration (end) date/time:	08/06/20 01:48
Lab File ID:	0805A_19	Analysis date/time:	08/06/20 03:09
Analytical Method:	8260B	Sample ID:	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
HEXACHLORO-1,3-BUTADIENE	0.478029	0.48995930		2.50	40	0.0050	0.005125	103	64 - 131
ISOPROPYLBENZENE	3.082540	2.886690		6.35	40	0.0050	0.004682	93.60	75 - 120
M&P-XYLENE	1.274571	1.171862		8.06	40	0.01	0.009194	91.90	77 - 120
METHYL TERT-BUTYL ETHER	0.770624	0.772082		0.1890	40	0.0050	0.005009	100	64 - 123
METHYLENE CHLORIDE	0.287077	0.27958180		2.61	40	0.0050	0.004869	97.40	60 - 140
N-BUTYLBENZENE	2.344543	2.175576		7.21	40	0.0050	0.004640	92.80	72 - 126
N-PROPYLBENZENE	2.112688	1.912795		9.46	40	0.0050	0.004527	90.50	79 - 120
NAPHTHALENE	3.297214	3.133206		4.97	40	0.0050	0.004751	95	54 - 135
O-XYLENE	1.206550	1.169005		3.11	40	0.0050	0.004844	96.90	78 - 120
P-ISOPROPYLTOLUENE	2.136543	1.953948		8.55	40	0.0050	0.004573	91.50	74 - 126
SEC-BUTYLBENZENE	2.250861	2.035606		9.56	40	0.0050	0.004522	90.40	74 - 121
STYRENE	1.983027	1.923992		2.98	40	0.0050	0.004851	97	78 - 124
TERT-BUTYLBENZENE	1.308825	1.206139		7.85	40	0.0050	0.004608	92.20	75 - 122
TETRACHLOROETHENE	0.608053	0.54502360		10.40	40	0.0050	0.004482	89.60	70 - 130
TOLUENE	2.945617	2.875210		2.39	20.49	0.0050	0.004880	97.60	70 - 130
TRANS-1,2-DICHLOROETHENE	0.266484	0.2547		4.42	40	0.0050	0.004779	95.60	70 - 130
TRANS-1,3-DICHLOROPROPENE	1.056119	1.036884		1.82	40	0.0050	0.004909	98.20	50 - 150
TRICHLOROETHENE	0.305752	0.29062870		4.95	40	0.0050	0.004753	95.10	65 - 135
TRICHLOROFLUOROMETHANE	0.444690	0.35960280		19.10	40	0.0050	0.004043	80.90	50 - 150
VINYL CHLORIDE	0.496704	0.46145040		7.10	20.49	0.0050	0.004645	92.90	5 - 195
XYLENES, TOTAL	0	0.68110870		0	40	0.0150	0.014038	93.60	77 - 120
1,2-DICHLOROETHANE-D4	0.321848	0.32463780		0.8670	40	0.0160	0.01614	101	70 - 130
4-BROMOFLUOROBENZENE	0.814772	0.84569570		3.80	40	0.0160	0.01661	104	67 - 138
TOLUENE-D8	2.459825	2.532773		2.97	40	0.0160	0.01647	103	75 - 131

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_19.D
 Acq On : 6 Aug 2020 3:09 am
 Operator : 3527
 Sample : SSCV VMS 5.0 ppb 20H04738
 Misc : water SURR/IS 20G06381
 ALS Vial : 19 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:59:59 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:55:39 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 8260-FLUOROBENZENE	4.561	96	335152	16.0000000	ppb	0.00	
59) 8260-CHLOROBENZENE-D5	6.499	82	132122	16.0000000	ppb	0.00	
81) 8260-1,4-DICHLOROBENZENE...	7.937	152	227134	16.0000000	ppb	0.00	
109) AP9-FLUOROBENZENE	4.561	96	335152	16.0000000	ppb	0.00	
123) AP9-CHLOROBENZENE-D5	6.499	82	132122	16.0000000	ppb	0.00	
127) AP9-1,4-DICHLOROBENZENE...	7.937	152	227134	16.0000000	ppb	0.00	
System Monitoring Compounds							
48) 1,2-DICHLOROETHANE-D4	4.406	65	108803	16.1386813	ppb	0.00	
Spiked Amount	16.000		Recovery	= 100.87%			
61) TOLUENE-D8	5.480	98	334635	16.4744906	ppb	0.00	
Spiked Amount	16.000	Range	90 - 115	Recovery	= 102.97%		
80) 4-BROMOFLUOROBENZENE	7.329	95	111735	16.6072631	ppb	0.00	
Spiked Amount	16.000	Range	80 - 120	Recovery	= 103.80%		
Target Compounds						Qvalue	
4) PROPENE	1.689	41	11316	4.6996288	ppb	95	
5) DICHLORODIFLUOROMETHANE	1.728	85	24438	3.7479941	ppb	#	86
6) CHLOROMETHANE	1.918	50	41972	5.3598391	ppb	#	99
7) VINYL CHLORIDE	1.988	62	48330	4.6451252	ppb		97
8) 1,3-BUTADIENE	1.966	39	44433	4.9011440	ppb		99
9) BROMOMETHANE	2.229	94	47649	4.0931217	ppb		100
10) CHLOROETHANE	2.313	64	33075	4.5122433	ppb		99
11) VINYL BROMIDE	2.400	106	22981	4.8967786	ppb		99
12) TRICHLOROFLUOROMETHANE	2.413	101	37663	4.0432972	ppb	#	96
13) DICHLOROFLUOROMETHANE	2.448	67	53364	4.4048536	ppb		97
14) ETHYL ETHER	2.596	59	23828	5.0847991	ppb		99
15) ACROLEIN	2.953	56	15951	34.3635740	ppb		99
17) 1,1-DICHLOROETHENE	2.747	96	22567	5.0279694	ppb		97
18) 1,1,2-TRICHLOROTRIFLUO...	2.776	101	19821	4.2538220	ppb		94
19) ACETONE	3.123	43	50758	24.9923722	ppb		99
20) IODOMETHANE	2.850	142	250940	24.4919940	ppb		99
21) CARBON DISULFIDE	2.783	76	73233	5.0985846	ppb		99
22) ALLYL CHLORIDE	3.033	76	77086	24.3622786	ppb		99
23) METHYLENE CHLORIDE	3.101	84	29282	4.8694636	ppb		98
24) METHYL ACETATE	3.181	43	108796	21.7978620	ppb	#	99
25) ACRYLONITRILE	3.577	53	70547	26.5907401	ppb		99
26) n-HEXANE	3.229	56	16946	4.6501216	ppb	#	95
27) TRANS-1,2-DICHLOROETHENE	3.197	96	26676	4.7788951	ppb		99
28) METHYL TERT-BUTYL ETHER	3.242	73	80864	5.0094613	ppb		93
29) TERT-BUTYL ALCOHOL	3.274	59	7753	19.8643366	ppb	#	100
30) 1,1-DICHLOROETHANE	3.551	63	52475	4.8736927	ppb		99
31) VINYL ACETATE	3.657	43	253427	17.3862324	ppb		99
32) DI-ISOPROPYL ETHER	3.438	45	99434	5.0678440	ppb		100
33) ETHYL TERT-BUTYL ETHER	3.647	59	87751	4.8412615	ppb		98
34) 2,2-DICHLOROPROPANE	3.918	77	27780	4.3950289	ppb		100
35) CIS-1,2-DICHLOROETHENE	3.853	96	32363	5.0133221	ppb		98
36) 2-BUTANONE (MEK)	4.155	43	102484	25.3827558	ppb		98
37) BROMOCHLOROMETHANE	3.969	130	22000	4.9454441	ppb		100
38) TETRAHYDROFURAN	4.098	42	12965	5.3733097	ppb		97
39) CHLOROFORM	3.991	83	54343	4.9264654	ppb		99
40) CYCLOHEXANE	3.982	84	30567	4.4081520	ppb		98
41) 1,1,1-TRICHLOROETHANE	4.130	97	41520	4.6555571	ppb		98
42) CARBON TETRACHLORIDE	4.091	117	38677	4.6244664	ppb		90

Data Path : C:\msdchem\1\data\080520a\
 Data File : 0805A_19.D
 Acq On : 6 Aug 2020 3:09 am
 Operator : 3527
 Sample : SSCV VMS 5.0 ppb 20H04738
 Misc : water SURR/IS 20G06381
 ALS Vial : 19 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 06 12:59:59 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:55:39 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) 1,1-DICHLOROPROPENE	4.191	75	34548	4.7740232	ppb		95
44) 2,2,4-TRIMETHYLPENTANE	4.229	57	64593	4.9842695	ppb		98
45) n-Heptane	4.268	71	15143	5.0593583	ppb	#	87
46) BENZENE	4.336	78	111717	4.8373989	ppb		99
47) TERT-AMYL METHYL ETHER	4.361	73	78089	4.6104479	ppb		99
49) 1,2-DICHLOROETHANE	4.448	62	43058	4.7835542	ppb		98
50) T-AMYL ALCOHOL	4.448	59	12736	22.0350154	ppb		92
51) TRICHLOROETHENE	4.660	132	30439	4.7526919	ppb		98
52) METHYL CYCLOHEXANE	4.663	83	34925	4.7523280	ppb		98
53) TERT-AMYL ETHYL ETHER	4.744	59	66168	5.0063523	ppb		98
54) 1,2-DICHLOROPROPANE	4.969	62	21247	5.2541093	ppb		93
55) DIBROMOMETHANE	4.914	93	21730	4.7693649	ppb		97
56) BROMODICHLOROMETHANE	4.991	83	41684	5.1617138	ppb		98
57) 2-CHLOROETHYL VINYL ETHER	5.297	63	113899	24.5788978	ppb		99
58) CIS-1,3-DICHLOROPROPENE	5.364	75	46738	5.1753394	ppb		97
60) 4-METHYL-2-PENTANONE (...)	5.725	43	215589	24.1518643	ppb		100
62) TOLUENE	5.516	91	118712	4.8804872	ppb		98
63) TRANS-1,3-DICHLOROPROPENE	5.763	75	42811	4.9089343	ppb		96
64) 1,1,2-TRICHLOROETHANE	5.872	97	28282	4.9182221	ppb		98
65) TETRACHLOROETHENE	5.770	164	22503	4.4817117	ppb		97
66) 1,3-DICHLOROPROPANE	6.059	76	45497	4.9652438	ppb		97
67) 2-HEXANONE	6.265	58	79700	25.0852679	ppb		98
68) CHLORODIBROMOMETHANE	6.001	129	33462	5.2183205	ppb		98
69) 1,2-DIBROMOETHANE	6.178	107	31747	5.0524020	ppb		97
70) CHLOROBENZENE	6.512	112	76984	4.5295005	ppb		96
71) 1,1,1,2-TETRACHLOROETHANE	6.544	133	27918	4.9526645	ppb	#	94
72) ETHYLBENZENE	6.506	106	39132	4.5726133	ppb		99
73) M&P-XYLENE	6.599	106	96768	9.1941701	ppb		98
74) O-XYLENE	6.908	106	48266	4.8444095	ppb		100
77) STYRENE	6.943	104	79438	4.8511484	ppb		99
78) BROMOFORM	6.985	173	22748	4.4793210	ppb		97
79) ISOPROPYLBENZENE	7.117	105	119186	4.6823223	ppb		99
82) BROMOBENZENE	7.409	77	52124	4.4722277	ppb		98
83) 1,1,2,2-TETRACHLOROETHANE	7.438	83	39577	4.3145216	ppb		99
84) 1,2,3-TRICHLOROPROPANE	7.541	110	12469	4.6663218	ppb		94
85) TRANS-1,4-DICHLORO-2-B...	7.554	53	9051	4.3071177	ppb		95
86) N-PROPYLBENZENE	7.393	91	135769	4.5269237	ppb		99
87) 4-ETHYLTOLUENE	7.461	105	124954	4.9334750	ppb		96
88) 2-CHLOROTOLUENE	7.512	91	89432	4.4170762	ppb		98
89) 4-CHLOROTOLUENE	7.615	91	82027	4.4193108	ppb		99
90) 1,3,5-TRIMETHYLBENZENE	7.509	105	97786	4.5810721	ppb		98
91) TERT-BUTYLBENZENE	7.708	119	85611	4.6077160	ppb		98
92) 1,2,4-TRIMETHYLBENZENE	7.744	105	111331	4.7297274	ppb		100
93) SEC-BUTYLBENZENE	7.798	105	144486	4.5218367	ppb		100
94) 1,3-DICHLOROBENZENE	7.911	146	100392	4.8096727	ppb		98
95) P-ISOPROPYLTOLUENE	7.856	119	138690	4.5726852	ppb		99
96) DICYCLOPENTADIENE	7.866	66	146671	4.0304730	ppb		97
97) 1,4-DICHLOROBENZENE	7.943	146	109328	4.5821074	ppb		91
98) 1,2,3-TRIMETHYLBENZENE	7.940	105	165105	5.3774184	ppb		97
99) 1,2-DICHLOROBENZENE	8.088	146	117712	4.6825923	ppb		99
100) N-BUTYLBENZENE	8.014	91	154421	4.6396574	ppb		99
101) 1,2-DIBROMO-3-CHLOROPR...	8.335	157	20923	4.2670660	ppb		97
102) 1,3,5-TRICHLOROBENZENE	8.342	180	85085	4.6777565	ppb		98
103) 1,2,4-TRICHLOROBENZENE	8.544	180	75490	4.5662407	ppb		99
104) HEXACHLORO-1,3-BUTADIENE	8.522	225	34777	5.1247838	ppb		96

Data Path : C:\msdchem\1\data\080520a\
Data File : 0805A_19.D
Acq On : 6 Aug 2020 3:09 am
Operator : 3527
Sample : SSCV VMS 5.0 ppb 20H04738
Misc : water SURR/IS 20G06381
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS35

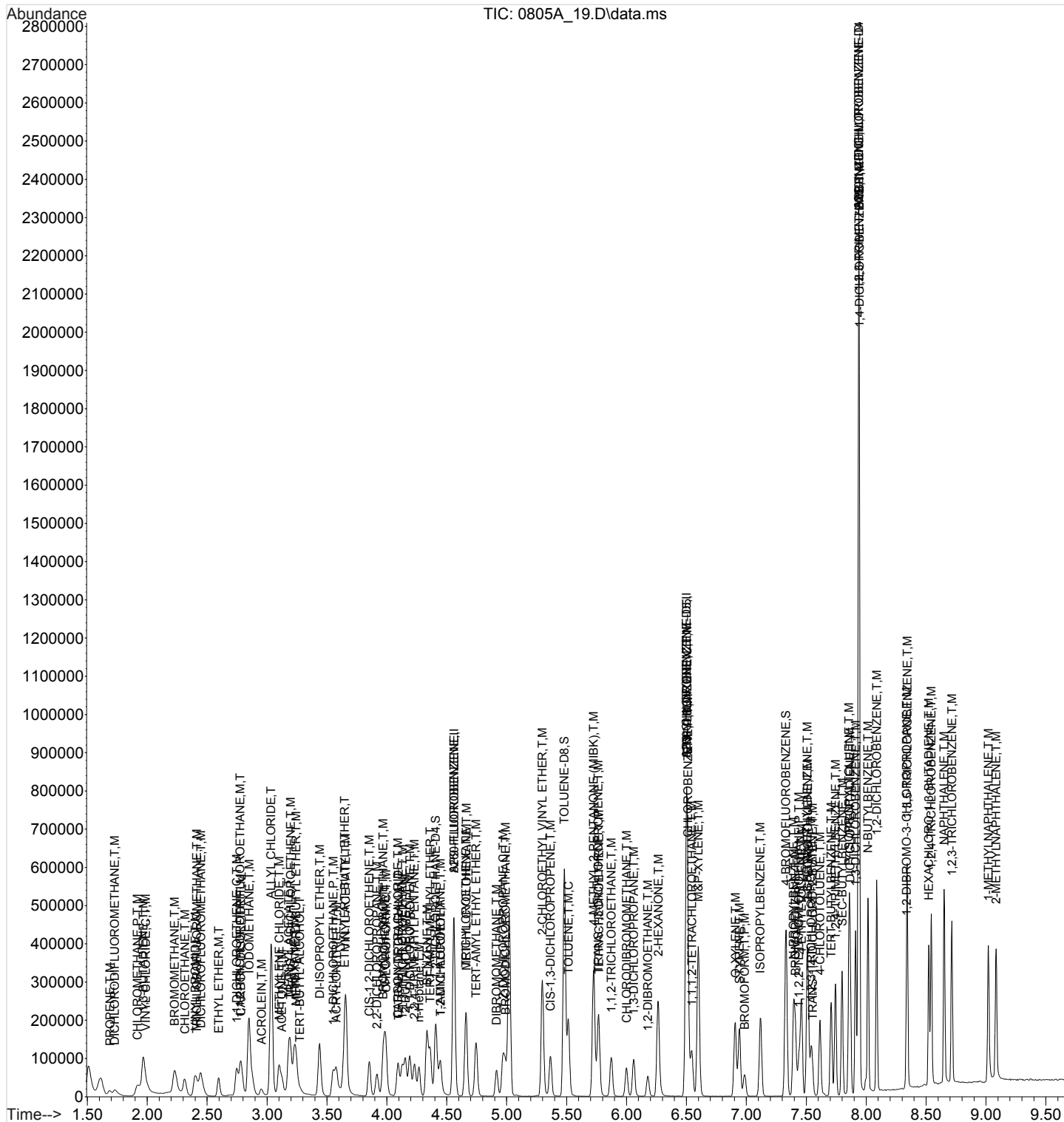
Quant Time: Aug 06 12:59:59 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:55:39 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) NAPHTHALENE	8.650	128	222393	4.7512926	ppb	100
106) 1,2,3-TRICHLOROBENZENE	8.715	180	74078	4.7955260	ppb	99
107) 1-METHYLNAPHTHALENE	9.020	142	110968	5.5552804	ppb	98
108) 2-METHYLNAPHTHALENE	9.085	142	100186	5.1053592	ppb	97

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

Data Path : C:\msdchem\1\data\080520a\
Data File : 0805A_19.D
Acq On : 6 Aug 2020 3:09 am
Operator : 3527
Sample : SSCV VMS 5.0 ppb 20H04738
Misc : water SURR/IS 20G06381
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS35

Quant Time: Aug 06 12:59:59 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:55:39 2020
Response via : Initial Calibration





7A-OR

GC/MS CONTINUING
CALIBRATION VERIFICATION

SDG:	L1253445	Calibration (begin) date/time:	07/30/20 23:48
Instrument ID:	VOCMS35	Calibration (end) date/time:	08/06/20 01:48
Lab File ID:	0824_29	Analysis date/time:	08/24/20 08:45
Analytical Method:	8260B	Sample ID:	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
1,1,1,2-TETRACHLOROETHANE	0.682638	0.72640590		6.41		0.0050	0.005321	106	
1,1,1-TRICHLOROETHANE	0.425759	0.42607670		0.0746		0.0050	0.005004	100	
1,1,2,2-TETRACHLOROETHANE	0.646172	0.55579940	0.30	14		0.0050	0.004301	86	
1,1,2-TRICHLOROETHANE	0.696381	0.68340410		1.86		0.0050	0.004907	98.10	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.222446	0.22683090		1.97		0.0050	0.005099	102	
1,1-DICHLOROETHANE	0.514011	0.48731270	0.10	5.19		0.0050	0.004740	94.80	
1,1-DICHLOROETHENE	0.214269	0.23085840		7.74	20	0.0050	0.005387	108	
1,1-DICHLOROPROPENE	0.345475	0.35290470		2.15		0.0050	0.005108	102	
1,2,3-TRICHLOROBENZENE	1.088155	0.66362070		39		0.0050	0.003049	61	
1,2,3-TRICHLOROPROPANE	0.188233	0.18349790		2.52		0.0050	0.004874	97.50	
1,2,3-TRIMETHYLBENZENE	2.162839	1.786054		17.40		0.0050	0.004129	82.60	
1,2,4-TRICHLOROBENZENE	1.164578	0.74184830		36.30		0.0050	0.003185	63.70	
1,2,4-TRIMETHYLBENZENE	1.658127	1.440261		13.10		0.0050	0.004343	86.90	
1,2-DIBROMO-3-CHLOROPROPANE	0.345408	0.20772760		39.90		0.0050	0.003007	60.10	
1,2-DIBROMOETHANE	0.760939	0.775843		1.96		0.0050	0.005098	102	
1,2-DICHLOROBENZENE	1.770811	1.346369		24		0.0050	0.003802	76	
1,2-DICHLOROETHANE	0.429716	0.39325640		8.48		0.0050	0.004576	91.50	
1,2-DICHLOROPROPANE	0.193053	0.18998320		1.59	20	0.0050	0.004920	98.40	
1,3,5-TRIMETHYLBENZENE	1.503652	1.385119		7.88		0.0050	0.004606	92.10	
1,3-DICHLOROBENZENE	1.470352	1.362684		7.32		0.0050	0.004634	92.70	
1,3-DICHLOROPROPANE	1.109653	1.086894		2.05		0.0050	0.004897	97.90	
1,4-DICHLOROBENZENE	1.680753	1.425314		15.20		0.0050	0.004240	84.80	
2,2-DICHLOROPROPANE	0.301751	0.28666390		5		0.0050	0.004750	95	
2-BUTANONE (MEK)	0.192750	0.15725650		18.40		0.0250	0.02040	81.60	
2-CHLOROTOLUENE	1.426251	1.278966		10.30		0.0050	0.004484	89.70	
4-CHLOROTOLUENE	1.307495	1.193735		8.70		0.0050	0.004565	91.30	
4-METHYL-2-PENTANONE (MIBK)	1.080988	0.88732930		17.90		0.0250	0.02052	82.10	
ACETONE	0.096956	0.06235006		35.70		0.0250	0.01608	64.30	
ACROLEIN	0.019954	0.01411647		29.30		0.0250	0.01613	64.50	
ACRYLONITRILE	0.126656	0.11167810		11.80		0.0250	0.02204	88.20	
BENZENE	1.102518	1.073582		2.62		0.0050	0.004869	97.40	
BROMOBENZENE	0.821016	0.736077		10.30		0.0050	0.004483	89.70	
BROMODICHLOROMETHANE	0.385526	0.38842620		0.7520		0.0050	0.005038	101	
BROMOFORM	0.615001	0.71258030	0.10	15.90		0.0050	0.005793	116	
BROMOMETHANE	0.555747	0.37436840		32.60		0.0050	0.003368	67.40	
CARBON TETRACHLORIDE	0.399272	0.40138120		0.5280		0.0050	0.005026	101	
CHLOROBENZENE	2.058235	2.051402	0.30	0.3320		0.0050	0.004983	99.70	
CHLORODIBROMOMETHANE	0.776544	0.84170310		8.39		0.0050	0.005420	108	
CHLOROETHANE	0.349933	0.26423010		24.50		0.0050	0.003775	75.50	
CHLOROFORM	0.526607	0.51285970		2.61	20	0.0050	0.004869	97.40	
CHLOROMETHANE	0.415125	0.40847990	0.10	1.60		0.0050	0.005471	109	
CIS-1,2-DICHLOROETHENE	0.308178	0.33294870		8.04		0.0050	0.005402	108	
CIS-1,3-DICHLOROPROPENE	0.431131	0.43907350		1.84		0.0050	0.005092	102	
DI-ISOPROPYL ETHER	0.936677	0.83412380		10.90		0.0050	0.004453	89.10	
DIBROMOMETHANE	0.217509	0.21383410		1.69		0.0050	0.004916	98.30	
DICHLORODIFLUOROMETHANE	0.311275	0.33510560		7.66		0.0050	0.005383	108	
ETHYLBENZENE	1.036364	1.043959		0.7330	20	0.0050	0.005037	101	
HEXACHLORO-1,3-BUTADIENE	0.478029	0.36366880		23.90		0.0050	0.003804	76.10	



GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1253445	Calibration (begin) date/time:	07/30/20 23:48
Instrument ID:	VOCMS35	Calibration (end) date/time:	08/06/20 01:48
Lab File ID:	0824_29	Analysis date/time:	08/24/20 08:45
Analytical Method:	8260B	Sample ID:	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
ISOPROPYLBENZENE	3.082540	2.900965		5.89		0.0050	0.004705	94.10	
M&P-XYLENE	1.274571	1.260728		1.09		0.01	0.009891	98.90	
METHYL TERT-BUTYL ETHER	0.770624	0.72546520		5.86		0.0050	0.004707	94.10	
METHYLENE CHLORIDE	0.287077	0.26829940		6.54		0.0050	0.004673	93.50	
N-BUTYLBENZENE	2.344543	1.830051		21.90		0.0050	0.003903	78.10	
N-PROPYLBENZENE	2.112688	1.901266		10		0.0050	0.004500	90	
NAPHTHALENE	3.297214	1.935040		41.30		0.0050	0.002934	58.70	
O-XYLENE	1.206550	1.177322		2.42		0.0050	0.004879	97.60	
P-ISOPROPYLTOLUENE	2.136543	1.943848		9.02		0.0050	0.004549	91	
SEC-BUTYLBENZENE	2.250861	1.943266		13.70		0.0050	0.004317	86.30	
STYRENE	1.983027	1.968314		0.7420		0.0050	0.004963	99.30	
TERT-BUTYLBENZENE	1.308825	1.219672		6.81		0.0050	0.004659	93.20	
TETRACHLOROETHENE	0.608053	0.72524960		19.30		0.0050	0.005964	119	
TOLUENE	2.945617	2.874872		2.40	20	0.0050	0.004880	97.60	
TRANS-1,2-DICHLOROETHENE	0.266484	0.28983290		8.76		0.0050	0.005438	109	
TRANS-1,3-DICHLOROPROPENE	1.056119	0.98153450		7.06		0.0050	0.004647	92.90	
TRICHLOROETHENE	0.305752	0.34704850		13.50		0.0050	0.005675	114	
TRICHLOROFLUOROMETHANE	0.444690	0.42468070		4.50		0.0050	0.004775	95.50	
VINYL CHLORIDE	0.496704	0.41341480		16.80	20	0.0050	0.004162	83.20	
XYLENES, TOTAL	0	0.71361260		0		0.0150	0.01477	98.50	
1,2-DICHLOROETHANE-D4	0.321848	0.29824040		7.34		0.0160	0.01483	92.70	70 - 130
4-BROMOFLUOROBENZENE	0.814772	0.92420010		13.40		0.0160	0.01815	113	70 - 130
TOLUENE-D8	2.459825	2.516114		2.29		0.0160	0.01637	102	70 - 130

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_29.D
 Acq On : 24 Aug 2020 8:45 am
 Operator : 859
 Sample : ICV VMS 5.0 PPB
 Misc : water
 ALS Vial : 29 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 25 09:18:16 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:55:39 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	458449	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.503	82	190950	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.940	152	329909	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.561	96	458449	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.503	82	190950	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.940	152	329909	16.0000000	ppb	0.00

System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.410	65	136728	14.8263901	ppb	0.00
Spiked Amount	16.000		Recovery	=	92.66%	
61) TOLUENE-D8	5.484	98	480452	16.3661344	ppb	0.00
Spiked Amount	16.000	Range 90 - 115	Recovery	=	102.29%	
80) 4-BROMOFLUOROBENZENE	7.336	95	176476	18.1488855	ppb	0.00
Spiked Amount	16.000	Range 80 - 120	Recovery	=	113.43%	

Target Compounds						Qvalue
4) PROPENE	1.689	41	16578	5.0333084	ppb	96
5) DICHLORODIFLUOROMETHANE	1.734	85	48009	5.3827807	ppb	98
6) CHLOROMETHANE	1.921	50	58521	5.4713728	ppb	100
7) VINYL CHLORIDE	1.998	62	59228	4.1615823	ppb	97
8) 1,3-BUTADIENE	1.969	39	45851	3.6973573	ppb	97
9) BROMOMETHANE	2.236	94	53634	3.3681533	ppb	99
10) CHLOROETHANE	2.320	64	37855	3.7754323	ppb	99
11) VINYL BROMIDE	2.403	106	46619	7.2619839	ppb	100
12) TRICHLOROFLUOROMETHANE	2.419	101	60842	4.7750181	ppb	# 58
13) DICHLOROFLUOROMETHANE	2.451	67	80418	4.8527415	ppb	97
14) ETHYL ETHER	2.599	59	31158	4.8607867	ppb	96
15) ACROLEIN	2.959	56	10112	16.1271240	ppb	89
17) 1,1-DICHLOROETHENE	2.747	96	33074	5.3871157	ppb	90
18) 1,1,2-TRICHLOROTRIFLUO...	2.779	101	32497	5.0985632	ppb	92
19) ACETONE	3.130	43	44663	16.0768758	ppb	91
20) IODOMETHANE	2.853	142	397765	28.3812555	ppb	95
21) CARBON DISULFIDE	2.789	76	107039	5.4479816	ppb	94
22) ALLYL CHLORIDE	3.037	76	108493	25.0665693	ppb	91
23) METHYLENE CHLORIDE	3.101	84	38438	4.6729588	ppb	92
24) METHYL ACETATE	3.185	43	135721	19.8791956	ppb	# 91
25) ACRYLONITRILE	3.583	53	79998	22.0435629	ppb	90
26) n-HEXANE	3.230	56	22971	4.6081626	ppb	# 98
27) TRANS-1,2-DICHLOROETHENE	3.197	96	41523	5.4380889	ppb	95
28) METHYL TERT-BUTYL ETHER	3.242	73	103934	4.7070004	ppb	92
29) TERT-BUTYL ALCOHOL	3.281	59	10427	19.7005802	ppb	# 100
30) 1,1-DICHLOROETHANE	3.554	63	69815	4.7402934	ppb	98
31) VINYL ACETATE	3.660	43	371990	18.5261051	ppb	99
32) DI-ISOPROPYL ETHER	3.442	45	119501	4.4525689	ppb	98
33) ETHYL TERT-BUTYL ETHER	3.648	59	108227	4.3650867	ppb	98
34) 2,2-DICHLOROPROPANE	3.921	77	41069	4.7500088	ppb	98
35) CIS-1,2-DICHLOROETHENE	3.857	96	47700	5.4018933	ppb	91
36) 2-BUTANONE (MEK)	4.159	43	112647	20.3963812	ppb	98
37) BROMOCHLOROMETHANE	3.972	130	33980	5.5841462	ppb	# 71
38) TETRAHYDROFURAN	4.101	42	14356	4.3496428	ppb	97
39) CHLOROFORM	3.995	83	73475	4.8694758	ppb	98
40) CYCLOHEXANE	3.985	84	39187	4.1313934	ppb	94
41) 1,1,1-TRICHLOROETHANE	4.130	97	61042	5.0037298	ppb	97
42) CARBON TETRACHLORIDE	4.094	117	57504	5.0264074	ppb	98

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_29.D
 Acq On : 24 Aug 2020 8:45 am
 Operator : 859
 Sample : ICV VMS 5.0 PPB
 Misc : water
 ALS Vial : 29 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 25 09:18:16 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:55:39 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) 1,1-DICHLOROPROPENE	4.194	75	50559	5.1075294	ppb		98
44) 2,2,4-TRIMETHYLPENTANE	4.233	57	69812	3.9381923	ppb		97
45) n-Heptane	4.271	71	17834	4.3559518	ppb	#	96
46) BENZENE	4.336	78	153807	4.8687730	ppb		99
47) TERT-AMYL METHYL ETHER	4.365	73	102591	4.4280581	ppb		96
49) 1,2-DICHLOROETHANE	4.451	62	56340	4.5757730	ppb		98
50) T-AMYL ALCOHOL	4.455	59	12307	17.7030963	ppb	#	80
51) TRICHLOROETHENE	4.660	132	49720	5.6753309	ppb		94
52) METHYL CYCLOHEXANE	4.664	83	42055	4.1834869	ppb		92
53) TERT-AMYL ETHYL ETHER	4.747	59	78257	4.3285993	ppb		95
54) 1,2-DICHLOROPROPANE	4.972	62	27218	4.9204914	ppb		95
55) DIBROMOMETHANE	4.918	93	30635	4.9155203	ppb	#	86
56) BROMODICHLOROMETHANE	4.995	83	55648	5.0376139	ppb		98
57) 2-CHLOROETHYL VINYL ETHER	5.300	63	152450	24.0503116	ppb		99
58) CIS-1,3-DICHLOROPROPENE	5.368	75	62904	5.0921098	ppb		96
60) 4-METHYL-2-PENTANONE (...)	5.728	43	264743	20.5212601	ppb		99
62) TOLUENE	5.519	91	171549	4.8799146	ppb		96
63) TRANS-1,3-DICHLOROPROPENE	5.766	75	58570	4.6468917	ppb		97
64) 1,1,2-TRICHLOROETHANE	5.879	97	40780	4.9068267	ppb		96
65) TETRACHLOROETHENE	5.773	164	43277	5.9637046	ppb		95
66) 1,3-DICHLOROPROPANE	6.062	76	64857	4.8974515	ppb		99
67) 2-HEXANONE	6.268	58	102283	22.2750843	ppb		94
68) CHLORODIBROMOMETHANE	6.004	129	50226	5.4195462	ppb		98
69) 1,2-DIBROMOETHANE	6.181	107	46296	5.0979333	ppb		99
70) CHLOROBENZENE	6.516	112	122411	4.9834002	ppb		94
71) 1,1,1,2-TETRACHLOROETHANE	6.548	133	43346	5.3205816	ppb	#	91
72) ETHYLBENZENE	6.509	106	62295	5.0366421	ppb		88
73) M&P-XYLENE	6.602	106	150460	9.8913894	ppb		95
74) O-XYLENE	6.911	106	70253	4.8788772	ppb		95
77) STYRENE	6.946	104	117453	4.9629037	ppb		93
78) BROMOFORM	6.991	173	42521	5.7933252	ppb		97
79) ISOPROPYLBENZENE	7.123	105	173106	4.7054770	ppb		96
82) BROMOBENZENE	7.413	77	75887	4.4827192	ppb	#	80
83) 1,1,2,2-TETRACHLOROETHANE	7.442	83	57301	4.3007081	ppb		99
84) 1,2,3-TRICHLOROPROPANE	7.545	110	18918	4.8742328	ppb		84
85) TRANS-1,4-DICHLORO-2-B...	7.554	53	9987	3.3201453	ppb		92
86) N-PROPYLBENZENE	7.397	91	196014	4.4996386	ppb		97
87) 4-ETHYLTOLUENE	7.464	105	172145	4.6793461	ppb		93
88) 2-CHLOROTOLUENE	7.519	91	131857	4.4836647	ppb		94
89) 4-CHLOROTOLUENE	7.618	91	123070	4.5649698	ppb		94
90) 1,3,5-TRIMETHYLBENZENE	7.512	105	142801	4.6058488	ppb		93
91) TERT-BUTYLBENZENE	7.712	119	125744	4.6594149	ppb		97
92) 1,2,4-TRIMETHYLBENZENE	7.747	105	148486	4.3430366	ppb		93
93) SEC-BUTYLBENZENE	7.802	105	200344	4.3167156	ppb		95
94) 1,3-DICHLOROBENZENE	7.914	146	140488	4.6338677	ppb		100
95) P-ISOPROPYLTOLUENE	7.860	119	200404	4.5490481	ppb		97
96) DICYCLOPENTADIENE	7.869	66	236151	4.4677569	ppb		95
97) 1,4-DICHLOROBENZENE	7.946	146	146945	4.2401055	ppb		79
98) 1,2,3-TRIMETHYLBENZENE	7.943	105	184136	4.1289563	ppb		97
99) 1,2-DICHLOROBENZENE	8.088	146	138806	3.8015599	ppb		100
100) N-BUTYLBENZENE	8.017	91	188672	3.9027883	ppb		99
101) 1,2-DIBROMO-3-CHLOROPR...	8.339	157	21416	3.0069884	ppb		95
102) 1,3,5-TRICHLOROBENZENE	8.345	180	90673	3.4320261	ppb		99
103) 1,2,4-TRICHLOROBENZENE	8.544	180	76482	3.1850525	ppb		100
104) HEXACHLORO-1,3-BUTADIENE	8.525	225	37493	3.8038345	ppb		97

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_29.D
Acq On : 24 Aug 2020 8:45 am
Operator : 859
Sample : ICV VMS 5.0 PPB
Misc : water
ALS Vial : 29 Sample Multiplier: 1
InstName : VOCMS35

Quant Time: Aug 25 09:18:16 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:55:39 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) NAPHTHALENE	8.654	128	199496	2.9343563	ppb	100
106) 1,2,3-TRICHLOROBENZENE	8.715	180	68417	3.0492920	ppb	98
107) 1-METHYLNAPHTHALENE	9.020	142	57663	1.9874373	ppb	99
108) 2-METHYLNAPHTHALENE	9.085	142	53692	1.8837221	ppb	97

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

[illegible]



7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG: L1253445
Instrument ID: VOCMS38
Lab File ID: 0805_34
Analytical Method: 8260B

Calibration (begin) date/time: 08/05/20 21:37
Calibration (end) date/time: 08/06/20 03:26
Analysis date/time: 08/06/20 12:33
Sample ID: SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
1,1,1,2-TETRACHLOROETHANE	0.498076	0.56420530		13.30	40	0.0050	0.005664	113	
1,1,1-TRICHLOROETHANE	0.426577	0.461884		8.28	40	0.0050	0.005414	108	
1,1,2,2-TETRACHLOROETHANE	1.271582	1.550939	0.30	22	40	0.0050	0.006098	122	
1,1,2-TRICHLOROETHANE	0.488642	0.57364760		17.40	40	0.0050	0.005870	117	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.205204	0.24382680		18.80	40	0.0050	0.005941	119	
1,1-DICHLOROETHANE	0.549701	0.58600340	0.10	6.60	40	0.0050	0.005330	107	
1,1-DICHLOROETHENE	0.187844	0.20984820		11.70	20.49	0.0050	0.005586	112	
1,1-DICHLOROPROPENE	0.342594	0.37636620		9.86	40	0.0050	0.005493	110	
1,2,3-TRICHLOROBENZENE	0.652366	0.72378830		10.90	40	0.0050	0.005547	111	
1,2,3-TRICHLOROPROPANE	0.418035	0.48781810		16.70	40	0.0050	0.005835	117	
1,2,3-TRIMETHYLBENZENE	2.085164	2.902810		39.20	40	0.0050	0.006961	139	
1,2,4-TRICHLOROBENZENE	0.699216	0.816074		16.70	40	0.0050	0.005836	117	
1,2,4-TRIMETHYLBENZENE	3.034431	3.559290		17.30	40	0.0050	0.005865	117	
1,2-DIBROMO-3-CHLOROPROPANE	0.246916	0.28121870		13.90	40	0.0050	0.005695	114	58 - 134
1,2-DIBROMOETHANE	0.565772	0.62899960		11.20	40	0.0050	0.005559	111	
1,2-DICHLOROBENZENE	1.180108	1.318483		11.70	40	0.0050	0.005586	112	
1,2-DICHLOROETHANE	0.480726	0.48178250		0.22	40	0.0050	0.005011	100	
1,2-DICHLOROPROPANE	0.225958	0.24278970		7.45	20.49	0.0050	0.005372	107	
1,3,5-TRIMETHYLBENZENE	3.213197	3.815311		18.70	40	0.0050	0.005937	119	
1,3-DICHLOROBENZENE	1.332587	1.526338		14.50	40	0.0050	0.005727	115	
1,3-DICHLOROPROPANE	0.916681	1.062509		15.90	40	0.0050	0.005795	116	
1,4-DICHLOROBENZENE	1.309085	1.477983		12.90	40	0.0050	0.005645	113	
2,2-DICHLOROPROPANE	0.320851	0.37512690		16.90	40	0.0050	0.005846	117	
2-BUTANONE (MEK)	0.289080	0.32181580		11.30	40	0.0250	0.02783	111	44 - 160
2-CHLOROTOLUENE	3.057330	3.521541		15.20	40	0.0050	0.005759	115	
4-CHLOROTOLUENE	2.838682	3.305779		16.50	40	0.0050	0.005823	116	
4-METHYL-2-PENTANONE (MIBK)	1.358353	1.589481		17	40	0.0250	0.02925	117	68 - 142
ACETONE	0.091562	0.07071697		22.80	40	0.0250	0.01931	77.20	19 - 160
ACROLEIN	0.004554	0.0077888860		71	40	0.0250	0.04276	171	10 - 160
ACRYLONITRILE	0.202538	0.24707520		22	40	0.0250	0.03050	122	
BENZENE	1.008596	1.070695		6.16	40	0.0050	0.005308	106	
BROMOBENZENE	1.816283	2.074435		14.20	40	0.0050	0.005711	114	
BROMODICHLOROMETHANE	0.399675	0.41927450		4.90	40	0.0050	0.005245	105	
BROMOFORM	0.472675	0.49301910	0.10	4.30	40	0.0050	0.005215	104	
BROMOMETHANE	0.213669	0.19911670		6.81	40	0.0050	0.004659	93.20	10 - 160
CARBON TETRACHLORIDE	0.367886	0.40244340		9.39	40	0.0050	0.005470	109	
CHLOROBENZENE	1.324546	1.495261	0.30	12.90	40	0.0050	0.005644	113	
CHLORODIBROMOMETHANE	0.576570	0.65598590		13.80	40	0.0050	0.005689	114	
CHLOROETHANE	0.204703	0.23721740		15.90	40	0.0050	0.005794	116	47 - 150
CHLOROFORM	0.498333	0.52094660		4.54	20.49	0.0050	0.005227	105	
CHLOROMETHANE	0.435532	0.39628230	0.10	9.01	40	0.0050	0.004549	91	
CIS-1,2-DICHLOROETHENE	0.251210	0.26500850		5.49	40	0.0050	0.005275	106	
CIS-1,3-DICHLOROPROPENE	0.457050	0.48562330		6.25	40	0.0050	0.005313	106	
DI-ISOPROPYL ETHER	1.264929	1.302762		2.99	40	0.0050	0.005150	103	
DIBROMOMETHANE	0.172485	0.17984220		4.27	40	0.0050	0.005213	104	
DICHLORODIFLUOROMETHANE	0.346334	0.30596560		11.70	40	0.0050	0.004417	88.30	51 - 149
ETHYLBENZENE	0.748052	0.86919490		16.20	20.49	0.0050	0.005810	116	
HEXACHLORO-1,3-BUTADIENE	0.304915	0.36939370		21.10	40	0.0050	0.006057	121	



7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1253445	Calibration (begin) date/time:	08/05/20 21:37
Instrument ID:	VOCMS38	Calibration (end) date/time:	08/06/20 03:26
Lab File ID:	0805_34	Analysis date/time:	08/06/20 12:33
Analytical Method:	8260B	Sample ID:	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
ISOPROPYLBENZENE	2.389999	2.828274		18.30	40	0.0050	0.005917	118	
M&P-XYLENE	0.918995	1.055136		14.80	40	0.01	0.01148	115	
METHYL TERT-BUTYL ETHER	0.819342	0.81995130		0.0744	40	0.0050	0.005004	100	
METHYLENE CHLORIDE	0.252590	0.24396740		3.41	40	0.0050	0.004829	96.60	
N-BUTYLBENZENE	2.285453	2.770265		21.20	40	0.0050	0.006061	121	
N-PROPYLBENZENE	4.443295	5.293639		19.10	40	0.0050	0.005957	119	
NAPHTHALENE	2.343499	2.604144		11.10	40	0.0050	0.005556	111	54 - 135
O-XYLENE	0.891196	1.023535		14.80	40	0.0050	0.005742	115	
P-ISOPROPYLTOLUENE	2.739901	3.264861		19.20	40	0.0050	0.005958	119	
SEC-BUTYLBENZENE	3.354511	4.169580		24.30	40	0.0050	0.006215	124	
STYRENE	1.507790	1.753078		16.30	40	0.0050	0.005813	116	
TERT-BUTYLBENZENE	2.395236	2.957754		23.50	40	0.0050	0.006174	123	
TETRACHLOROETHENE	0.422084	0.49867280		18.10	40	0.0050	0.005907	118	
TOLUENE	2.193957	2.524158		15.10	20.49	0.0050	0.005753	115	
TRANS-1,2-DICHLOROETHENE	0.220673	0.22682870		2.79	40	0.0050	0.005139	103	
TRANS-1,3-DICHLOROPROPENE	0.929346	1.0152		9.24	40	0.0050	0.005462	109	
TRICHLOROETHENE	0.239473	0.24925840		4.09	40	0.0050	0.005204	104	
TRICHLOROFLUOROMETHANE	0.412389	0.45279610		9.80	40	0.0050	0.005490	110	
VINYL CHLORIDE	0.345333	0.35689840		3.35	20.49	0.0050	0.005167	103	
XYLENES, TOTAL	0	1.687134		0	40	0.0150	0.017222	115	
1,2-DICHLOROETHANE-D4	0.394422	0.399549		1.30	40	0.0160	0.01621	101	70 - 130
4-BROMOFLUOROBENZENE	0.831230	0.836448		0.6280	40	0.0160	0.01610	101	67 - 138
TOLUENE-D8	2.025618	2.207485		8.98	40	0.0160	0.01744	109	75 - 131

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_34.D
 Acq On : 6 Aug 2020 12:33 pm
 Operator : 988
 Sample : SSCV VMS 5.0 ppb 20H04738
 Misc : water IS/SURR20G06381
 ALS Vial : 34 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 13:05:24 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	364088	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.503	82	164706	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.976	152	101979	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.561	96	364088	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.503	82	164706	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.976	152	101979	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.410	65	145471	16.2079989	ppb	0.00
Spiked Amount 16.000			Recovery	= 101.30%		
61) TOLUENE-D8	5.484	98	363586	17.4365336	ppb	0.00
Spiked Amount 16.000	Range 90 - 115		Recovery	= 108.98%		
80) 4-BROMOFLUOROBENZENE	7.339	95	137768	16.1004393	ppb	0.00
Spiked Amount 16.000	Range 80 - 120		Recovery	= 100.63%		
Target Compounds						
					Qvalue	
4) PROPENE	1.761	41	26497	6.6618519	ppb #	56
5) DICHLORODIFLUOROMETHANE	1.799	85	34812	4.4171992	ppb #	62
6) CHLOROMETHANE	1.979	50	45088	4.5494016	ppb #	97
7) VINYL CHLORIDE	2.050	62	40607	5.1674537	ppb #	97
8) 1,3-BUTADIENE	2.027	39	45391	6.0141314	ppb	98
9) BROMOMETHANE	2.294	94	22655	4.6594579	ppb #	98
10) CHLOROETHANE	2.368	64	26990	5.7941870	ppb #	79
11) VINYL BROMIDE	2.439	106	23035m	5.6993493	ppb	
12) TRICHLOROFLUOROMETHANE	2.439	101	51518m	5.4899112	ppb	
13) DICHLOROFLUOROMETHANE	2.494	67	67275	5.1395054	ppb	98
14) ETHYL ETHER	2.629	59	34991	5.2871481	ppb	99
15) ACROLEIN	2.970	56	4431m	42.7577070	ppb	
17) 1,1-DICHLOROETHENE	2.777	96	23876	5.5857177	ppb	96
18) 1,1,2-TRICHLOROTRIFLUO...	2.806	101	27742	5.9410893	ppb #	96
19) ACETONE	3.143	43	40230	19.3084829	ppb #	80
20) IODOMETHANE	2.880	142	206330	23.9963824	ppb	98
21) CARBON DISULFIDE	2.815	76	72214	5.0732056	ppb	99
22) ALLYL CHLORIDE	3.060	76	73070	24.4455623	ppb	99
23) METHYLENE CHLORIDE	3.124	84	27758	4.8293234	ppb	98
24) METHYL ACETATE	3.198	43	197416	26.5704914	ppb #	99
25) ACRYLONITRILE	3.590	53	140558m	30.4973513	ppb	
26) n-HEXANE	3.246	56	35552	6.0979702	ppb #	99
27) TRANS-1,2-DICHLOROETHENE	3.217	96	25808	5.1394848	ppb	95
28) METHYL TERT-BUTYL ETHER	3.262	73	93292	5.0037176	ppb	87
30) 1,1-DICHLOROETHANE	3.568	63	66674	5.3302057	ppb	98
31) VINYL ACETATE	3.670	43	617207	30.5215875	ppb	99
32) DI-ISOPROPYL ETHER	3.455	45	148225	5.1495450	ppb	100
33) ETHYL TERT-BUTYL ETHER	3.661	59	130132	5.2258847	ppb	98
34) 2,2-DICHLOROPROPANE	3.924	77	42681	5.8458077	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.860	96	30152	5.2746503	ppb	96
36) 2-BUTANONE (MEK)	4.159	43	183077	27.8310090	ppb	99
37) BROMOCHLOROMETHANE	3.973	130	18145	5.0612983	ppb	99
38) TETRAHYDROFURAN	4.105	42	21526	4.7853850	ppb #	84
39) CHLOROFORM	3.998	83	59272	5.2268907	ppb	98
40) CYCLOHEXANE	3.995	84	44715	6.0434705	ppb	98
41) 1,1,1-TRICHLOROETHANE	4.137	97	52552	5.4138455	ppb	99
42) CARBON TETRACHLORIDE	4.101	117	45789	5.4696713	ppb	99
43) 1,1-DICHLOROPROPENE	4.195	75	42822	5.4928916	ppb	98

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_34.D
 Acq On : 6 Aug 2020 12:33 pm
 Operator : 988
 Sample : SSCV VMS 5.0 ppb 20H04738
 Misc : water IS/SURR20G06381
 ALS Vial : 34 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 13:05:24 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
44) 2,2,4-TRIMETHYLPENTANE	4.240	57	153438	6.7396442	ppb		99
45) n-Heptane	4.278	71	26645	6.2768714	ppb	#	91
46) BENZENE	4.339	78	121821	5.3078485	ppb		99
47) TERT-AMYL METHYL ETHER	4.368	73	93251	4.9729299	ppb		99
49) 1,2-DICHLOROETHANE	4.449	62	54816	5.0109848	ppb		100
50) T-AMYL ALCOHOL	4.449	59	36737m	25.7353813	ppb		
51) TRICHLOROETHENE	4.658	132	28360	5.2043078	ppb		98
52) METHYL CYCLOHEXANE	4.667	83	52592	6.1243234	ppb		99
53) TERT-AMYL ETHYL ETHER	4.748	59	104850	5.5259337	ppb		98
54) 1,2-DICHLOROPROPANE	4.973	62	27624	5.3724577	ppb		99
55) DIBROMOMETHANE	4.915	93	20462	5.2132701	ppb		97
56) BROMODICHLOROMETHANE	4.992	83	47704	5.2451906	ppb	#	97
57) 2-CHLOROETHYL VINYL ETHER	5.301	63	173150	26.7205455	ppb		98
58) CIS-1,3-DICHLOROPROPENE	5.365	75	55253	5.3125790	ppb	#	99
60) 4-METHYL-2-PENTANONE (...)	5.728	43	409058	29.2538327	ppb		100
62) TOLUENE	5.516	91	129920	5.7525245	ppb		98
63) TRANS-1,3-DICHLOROPROPENE	5.764	75	52253	5.4619093	ppb		99
64) 1,1,2-TRICHLOROETHANE	5.873	97	29526	5.8698098	ppb		98
65) TETRACHLOROETHENE	5.770	164	25667	5.9072744	ppb		95
66) 1,3-DICHLOROPROPANE	6.059	76	54688	5.7954157	ppb		96
67) 2-HEXANONE	6.268	58	146546	27.2526577	ppb		97
68) CHLORODIBROMOMETHANE	6.002	129	33764	5.6886913	ppb		96
69) 1,2-DIBROMOETHANE	6.175	107	32375	5.5587756	ppb		93
70) CHLOROBENZENE	6.516	112	76962	5.6444264	ppb		99
71) 1,1,1,2-TETRACHLOROETHANE	6.545	133	29040	5.6638447	ppb	#	97
72) ETHYLBENZENE	6.513	106	44738	5.8097180	ppb		97
73) M&P-XYLENE	6.606	106	108617	11.4814067	ppb		98
74) O-XYLENE	6.915	106	52682	5.7424782	ppb		96
77) STYRENE	6.947	104	90232	5.8134018	ppb		100
78) BROMOFORM	6.992	173	25376	5.2152063	ppb		99
79) ISOPROPYLBENZENE	7.127	105	145573	5.9168913	ppb		97
82) BROMOBENZENE	7.420	77	66109	5.7106602	ppb		100
83) 1,1,2,2-TETRACHLOROETHANE	7.455	83	49426	6.0984611	ppb		96
84) 1,2,3-TRICHLOROPROPANE	7.561	110	15546	5.8346559	ppb		96
85) TRANS-1,4-DICHLORO-2-B...	7.577	53	16675	5.1469229	ppb	#	94
86) N-PROPYLBENZENE	7.410	91	168700	5.9568842	ppb		100
87) 4-ETHYLTOLUENE	7.477	105	152937	6.4276182	ppb		100
88) 2-CHLOROTOLUENE	7.532	91	112226	5.7591767	ppb		96
89) 4-CHLOROTOLUENE	7.641	91	105350	5.8227347	ppb		99
90) 1,3,5-TRIMETHYLBENZENE	7.532	105	121588	5.9369383	ppb		100
91) TERT-BUTYLBENZENE	7.744	119	94259	6.1742445	ppb		98
92) 1,2,4-TRIMETHYLBENZENE	7.783	105	113429	5.8648387	ppb		97
93) SEC-BUTYLBENZENE	7.838	105	132878	6.2148843	ppb		100
94) 1,3-DICHLOROBENZENE	7.950	146	48642	5.7269726	ppb		98
95) P-ISOPROPYLTOLUENE	7.899	119	104046	5.9579902	ppb		99
96) DICYCLOPENTADIENE	7.905	66	121432	5.0707540	ppb		99
97) 1,4-DICHLOROBENZENE	7.982	146	47101	5.6450994	ppb		81
98) 1,2,3-TRIMETHYLBENZENE	7.982	105	92508	6.9606274	ppb		100
99) 1,2-DICHLOROBENZENE	8.140	146	42018	5.5862834	ppb		99
100) N-BUTYLBENZENE	8.063	91	88284	6.0606461	ppb		100
101) 1,2-DIBROMO-3-CHLOROPR...	8.436	157	8962	5.6946337	ppb		95
102) 1,3,5-TRICHLOROBENZENE	8.448	180	30467	6.0146267	ppb		96
103) 1,2,4-TRICHLOROBENZENE	8.709	180	26007	5.8356352	ppb		99
104) HEXACHLORO-1,3-BUTADIENE	8.686	225	11772	6.0573240	ppb		94
105) NAPHTHALENE	8.850	128	82990	5.5561014	ppb		100

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_34.D
 Acq On : 6 Aug 2020 12:33 pm
 Operator : 988
 Sample : SSCV VMS 5.0 ppb 20H04738
 Misc : water IS/SURR20G06381
 ALS Vial : 34 Sample Multiplier: 1
 InstName : VOCMS38

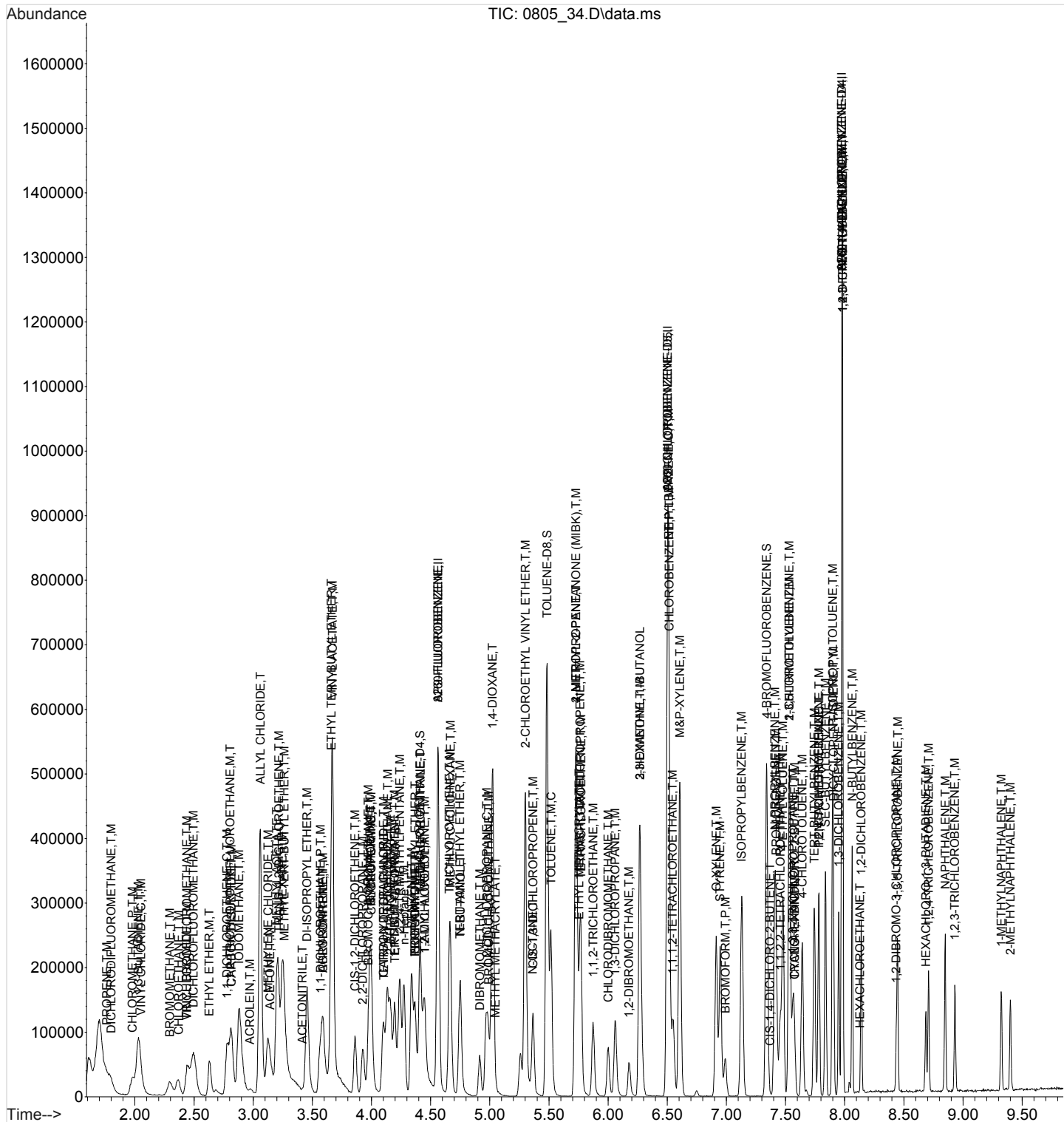
Quant Time: Aug 06 13:05:24 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
106)	1,2,3-TRICHLORO BENZENE	8.931	180	23066	5.5474082	ppb		99
107)	1-METHYLNAPHTHALENE	9.323	142	34957	5.5979200	ppb		99
108)	2-METHYLNAPHTHALENE	9.400	142	30795	5.8568906	ppb		97
112)	ACETONITRILE	3.413	41	213	0.1344774	ppb	#	62
113)	CHLOROPRENE	3.590	53	111563	7.5159857	ppb	#	37
114)	PROPIONITRILE	4.368	54	629	0.2638356	ppb	#	1
115)	ETHYL ACETATE	3.989	43	9217	0.5483327	ppb	#	75
116)	METHACRYLONITRILE	4.413	67	69327	14.1593529	ppb	#	1
117)	TERT-BUTYL FORMATE	4.198	59	261	0.0272808	ppb	#	10
118)	ISOBUTANOL	4.368	43	40437	47.4361432	ppb	#	85
119)	N-BUTANOL	4.751	56	1814	4.4032426	ppb	#	1
120)	METHYL METHACRYLATE	5.047	41	608	0.0452192	ppb	#	31
121)	1,4-DIOXANE	5.021	88	2205	60.2076872	ppb	#	31
122)	N-OCTANE	5.362	85	407	0.1016194	ppb	#	1
124)	2-NITROPROPANE	5.728	43	409058	82.9488940	ppb	#	40
125)	3,3-DIMETHYL-1-BUTANOL	6.268	57	52490	34.0285581	ppb	#	51
126)	ETHYL METHACRYLATE	5.754	69	304	0.0250821	ppb	#	16
128)	CIS-1,4-DICHLORO-2-BUTENE	7.368	53	642	0.1489647	ppb	#	35
129)	CYCLOHEXANONE	7.577	55	262	0.9930746	ppb	#	1
130)	PENTACHLOROETHANE	7.783	117	4074	1.1622436	ppb	#	11
131)	HEXACHLOROETHANE	8.130	117	200	0.0536307	ppb	#	45

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

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_34.D
Acq On : 6 Aug 2020 12:33 pm
Operator : 988
Sample : SSCV VMS 5.0 ppb 20H04738
Misc : water IS/SURR20G06381
ALS Vial : 34 Sample Multiplier: 1
InstName : VOCMS38

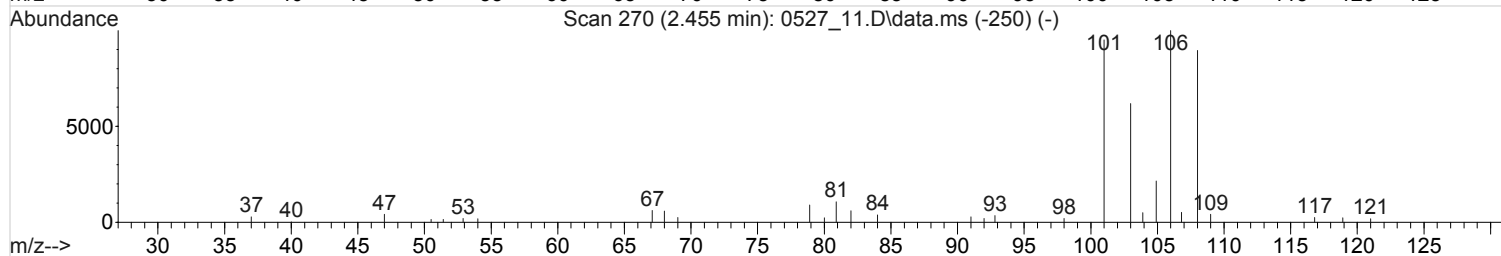
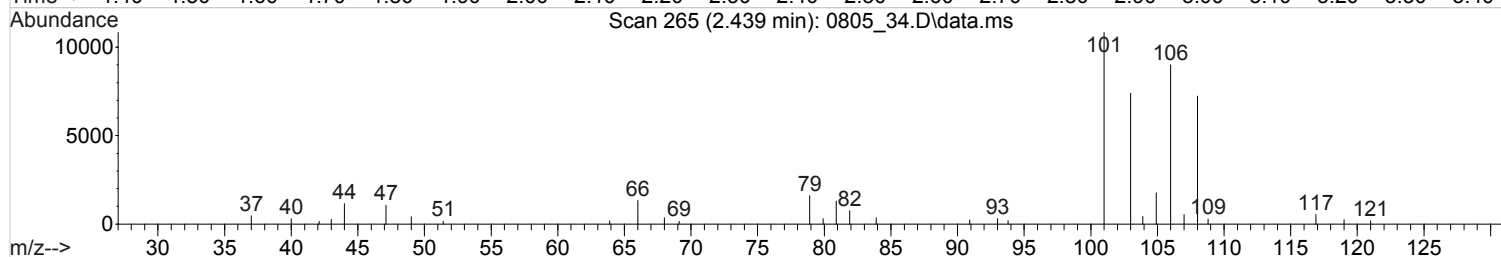
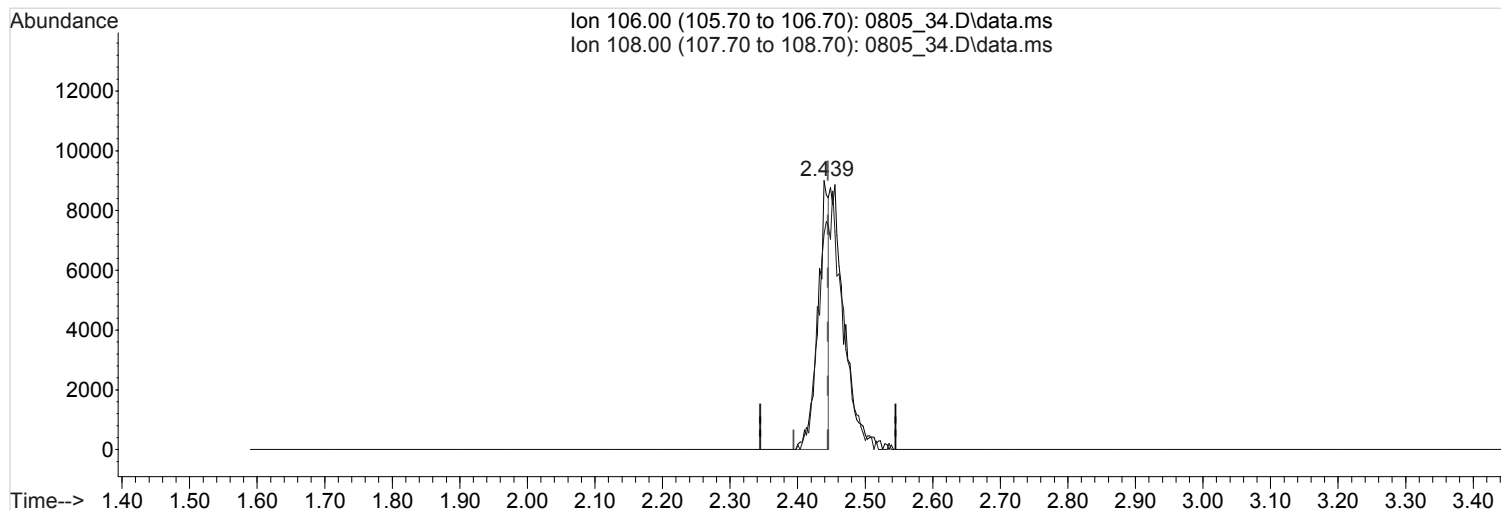
Quant Time: Aug 06 13:05:24 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_34.D
 Acq On : 6 Aug 2020 12:33 pm
 Operator : 988
 Sample : SSCV VMS 5.0 ppb 20H04738
 Misc : water IS/SURR20G06381
 ALS Vial : 34 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 12:56:48 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration



TIC: 0805_34.D\data.ms

(11) VINYL BROMIDE (T,M)

2.439min (-0.006) 2.4311615 ppb

Qvalue = 1

response 9826

Ion	Exp%	Act%
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106.00	100	100
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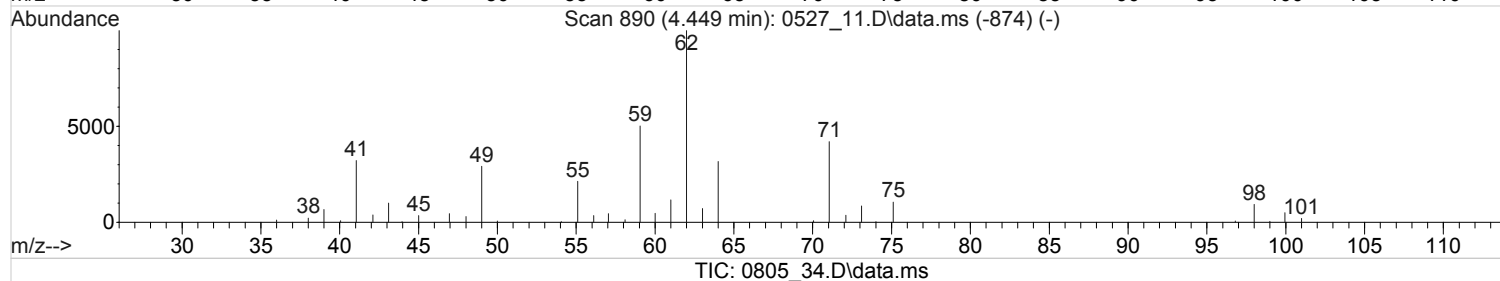
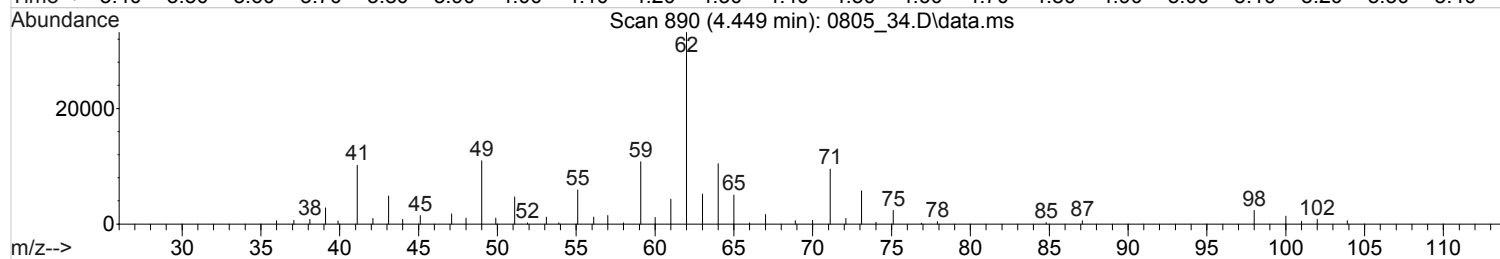
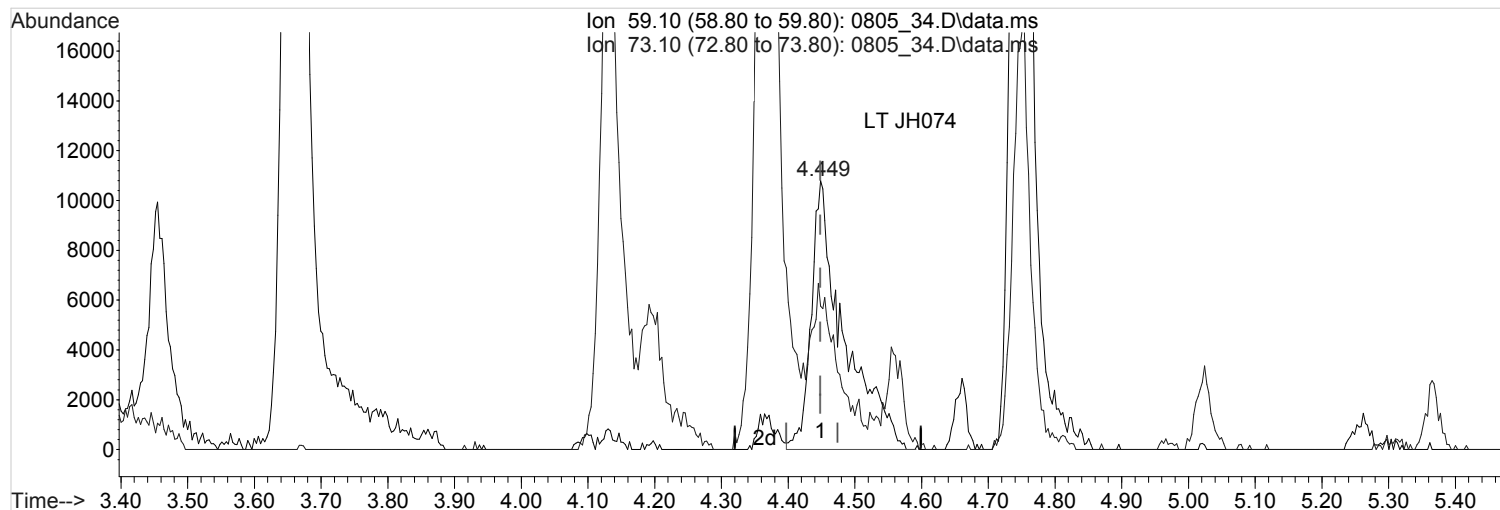
108.00	97.20	210.59#
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0.00	0.00	0.00
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0.00	0.00	0.00
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Data Path : C:\msdchem\1\data\080520\
Data File : 0805_34.D
Acq On : 6 Aug 2020 12:33 pm
Operator : 988
Sample : SSCV VMS 5.0 ppb 20H04738
Misc : water IS/SURR20G06381
ALS Vial : 34 Sample Multiplier: 1
InstName : VOCMS38

Quant Time: Aug 06 12:57:48 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration



(50) T-AMYL ALCOHOL (T)

4.449min (+0.000) 25.7353813 ppb m

response 36737

Ion	Exp%	Act%
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59.10	100	100
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73.10	22.30	33.24#
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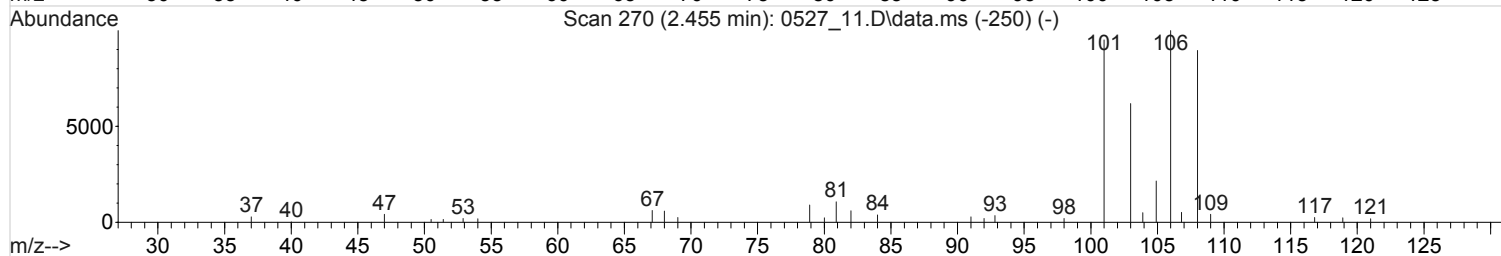
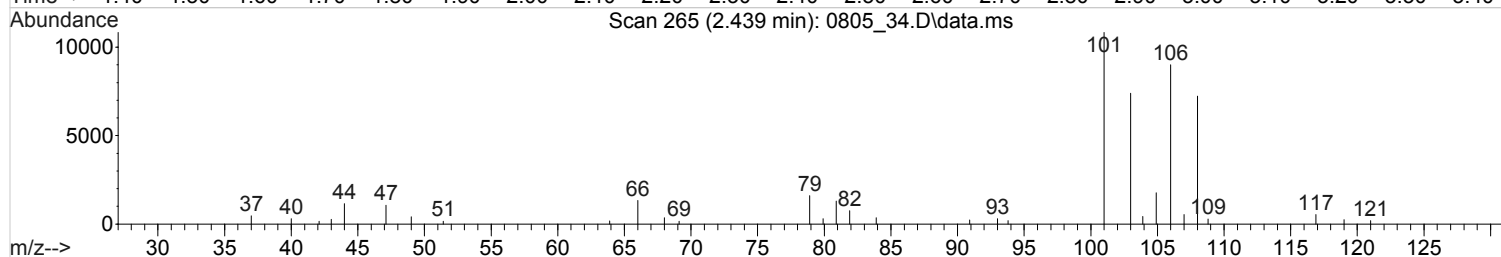
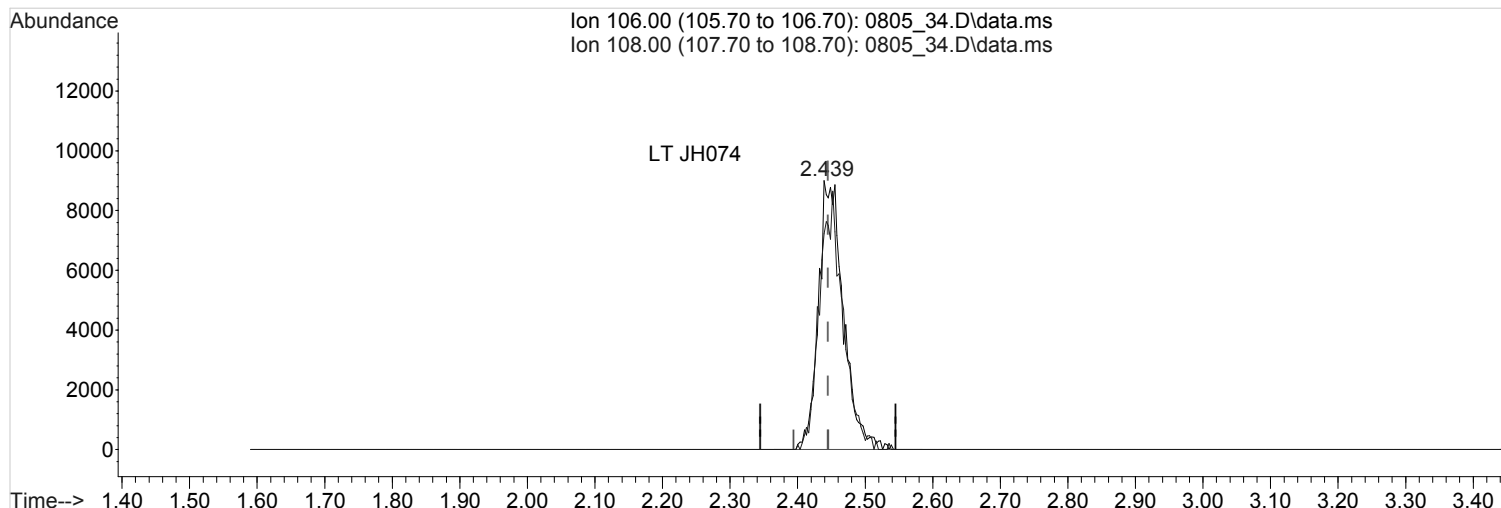
0.00	0.00	0.00
------	------	------

0.00	0.00	0.00
------	------	------

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_34.D
 Acq On : 6 Aug 2020 12:33 pm
 Operator : 988
 Sample : SSCV VMS 5.0 ppb 20H04738
 Misc : water IS/SURR20G06381
 ALS Vial : 34 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 12:56:48 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration



TIC: 0805_34.D\data.ms

(11) VINYL BROMIDE (T,M)

2.439min (-0.006) 5.6993493 ppb m

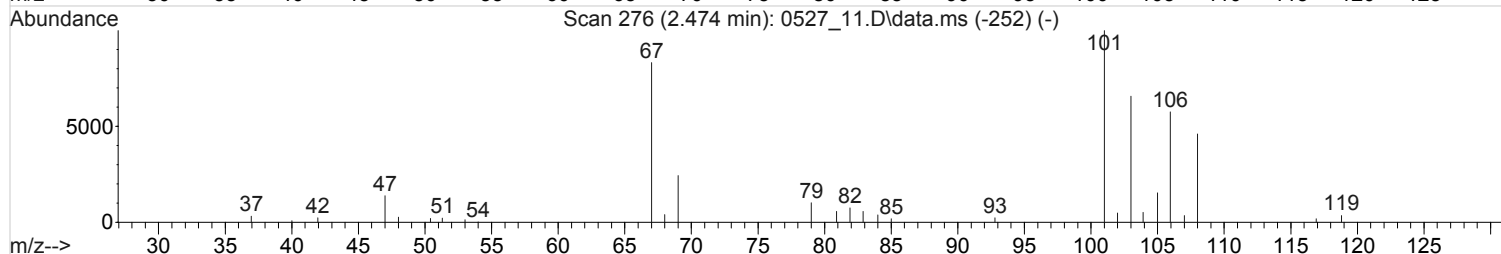
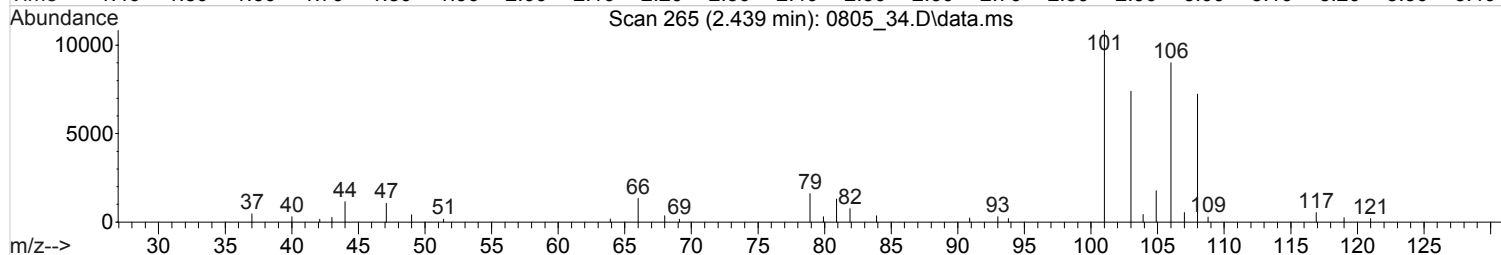
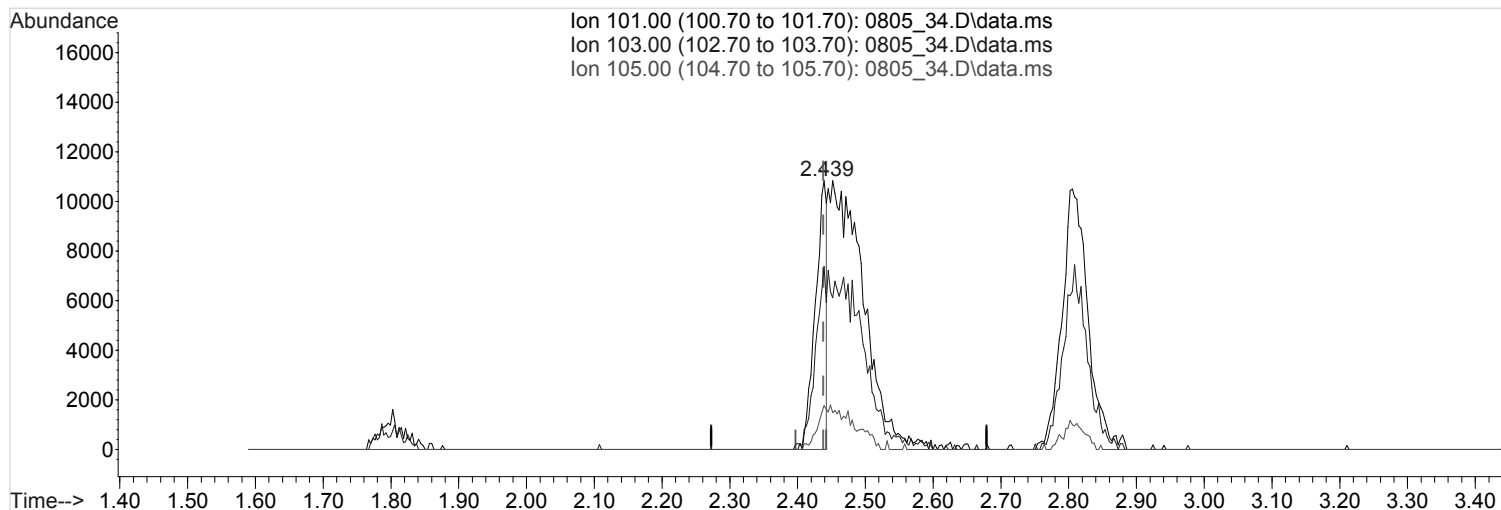
response 23035

Ion	Exp%	Act%
106.00	100	100
108.00	97.20	89.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_34.D
 Acq On : 6 Aug 2020 12:33 pm
 Operator : 988
 Sample : SSCV VMS 5.0 ppb 20H04738
 Misc : water IS/SURR20G06381
 ALS Vial : 34 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 12:56:48 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration



TIC: 0805_34.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.439min (+0.001) 1.3173315 ppb

Qvalue = 1

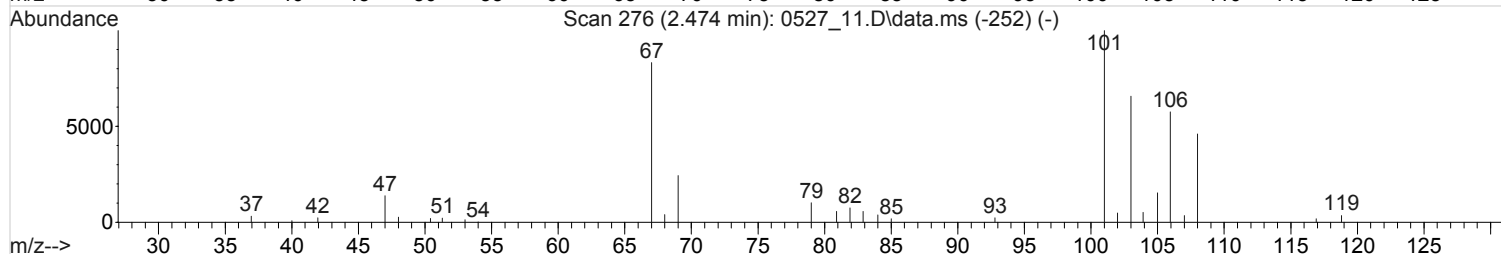
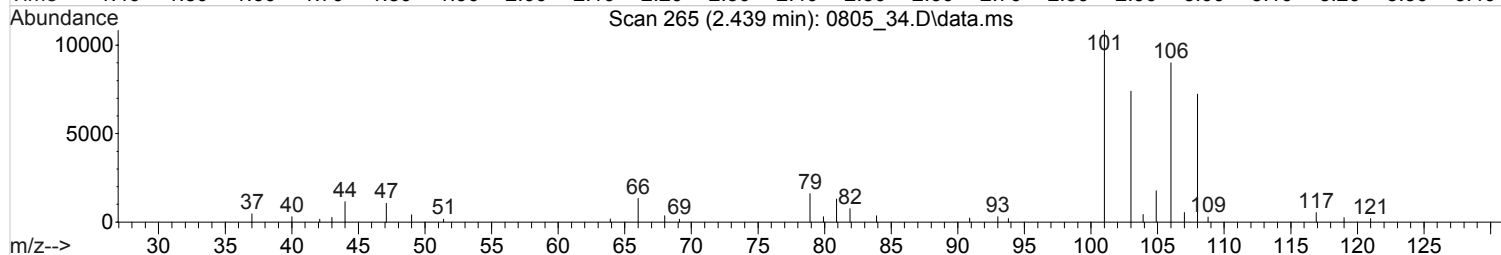
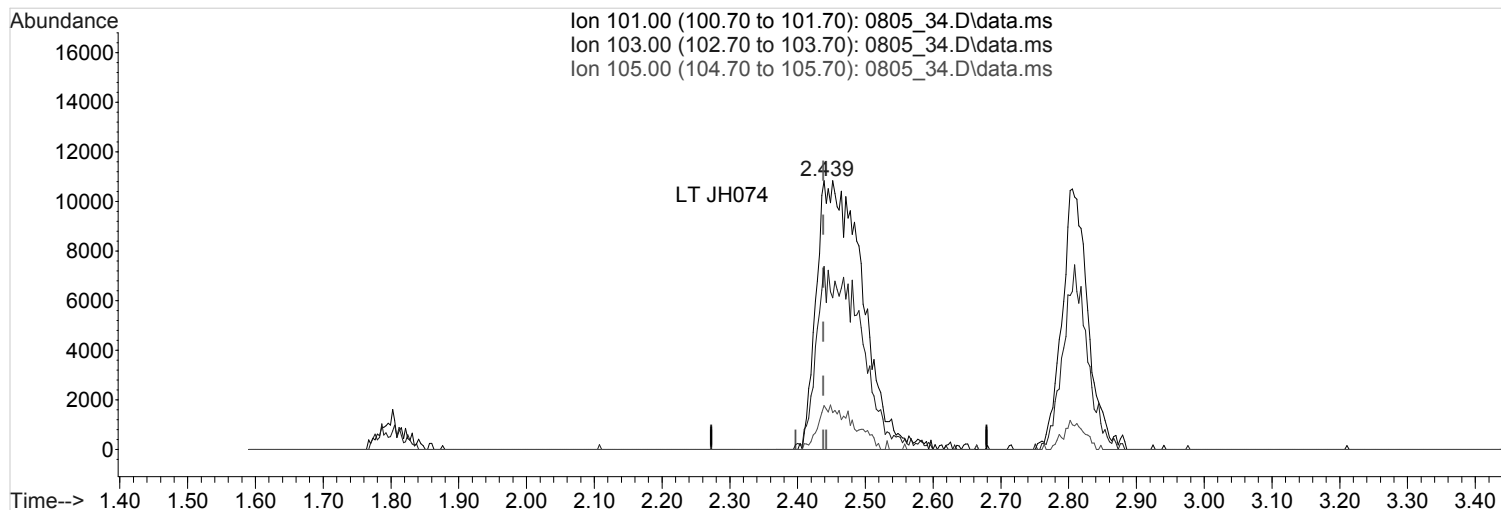
response 12362

Ion	Exp%	Act%
101.00	100	100
103.00	17.10	66.91#
105.00	4.20	16.61#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_34.D
 Acq On : 6 Aug 2020 12:33 pm
 Operator : 988
 Sample : SSCV VMS 5.0 ppb 20H04738
 Misc : water IS/SURR20G06381
 ALS Vial : 34 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 12:56:48 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration



TIC: 0805_34.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.439min (+0.001) 5.4899112 ppb m

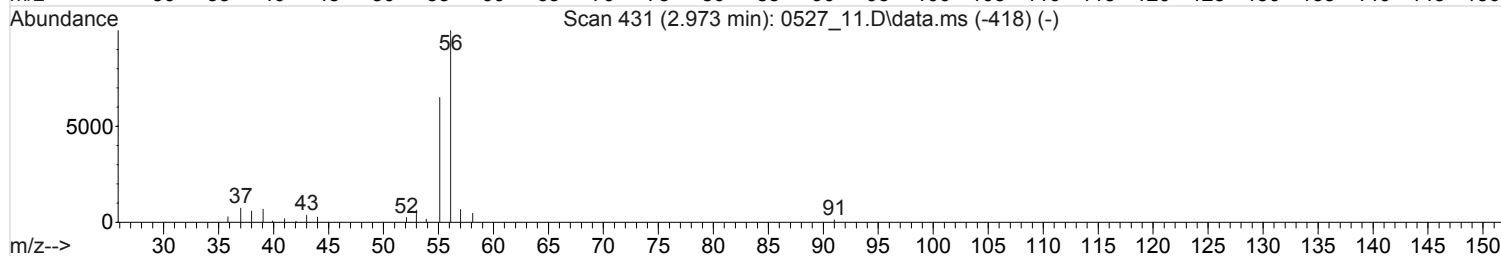
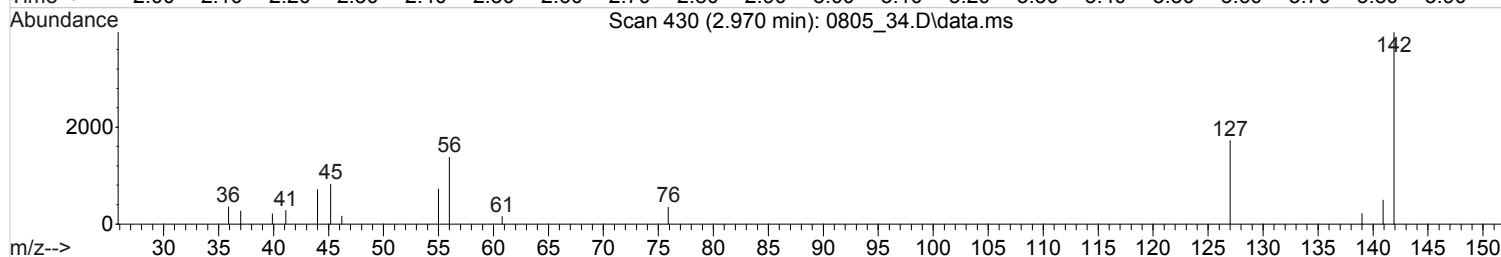
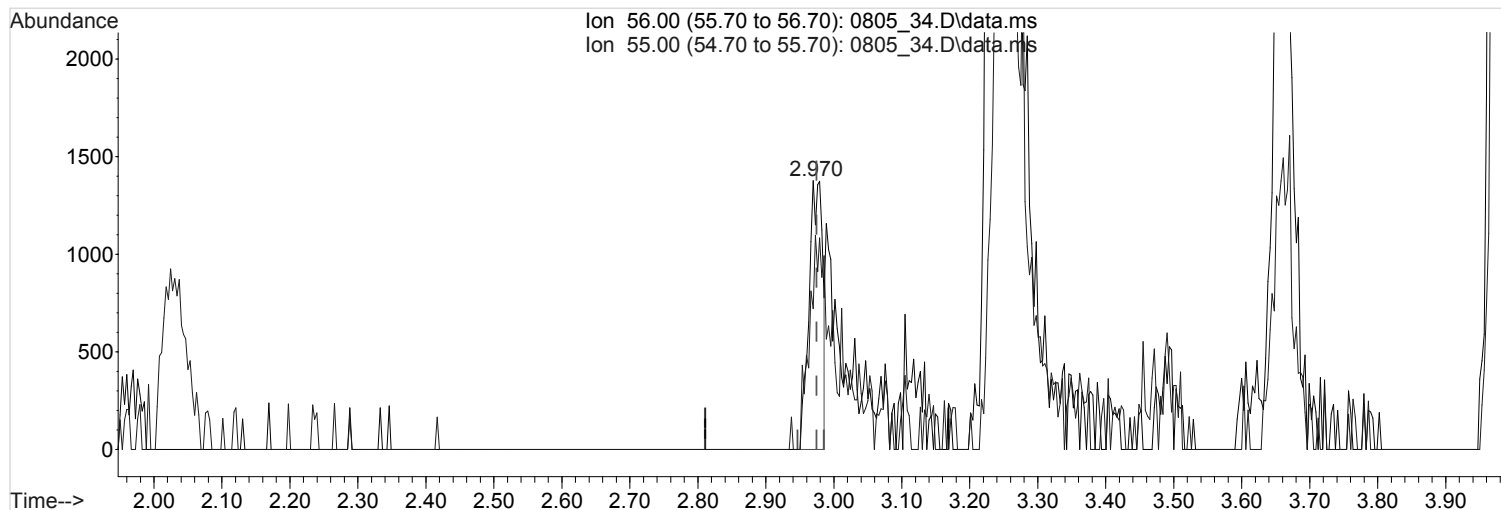
response 51518

Ion	Exp%	Act%
101.00	100	100
103.00	17.10	16.05
105.00	4.20	3.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_34.D
 Acq On : 6 Aug 2020 12:33 pm
 Operator : 988
 Sample : SSCV VMS 5.0 ppb 20H04738
 Misc : water IS/SURR20G06381
 ALS Vial : 34 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 12:56:48 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration



TIC: 0805_34.D\data.ms

(15) ACROLEIN (T,M)

2.970min (-0.005) 18.4791264 ppb

Qvalue = 1

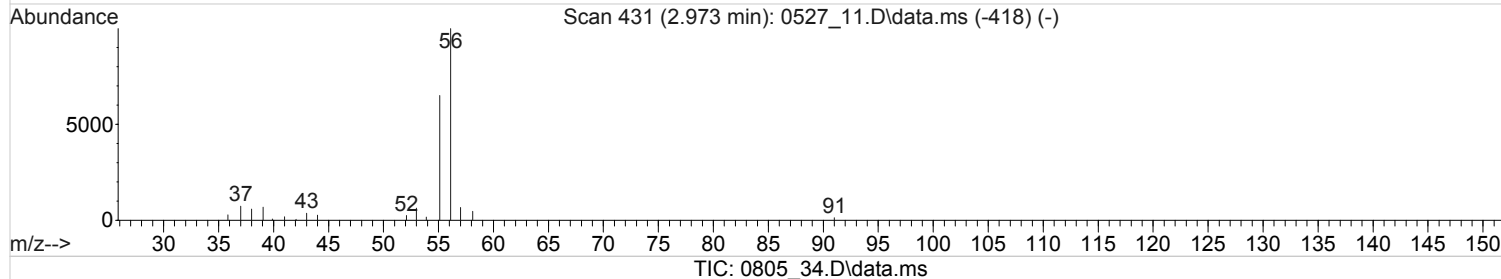
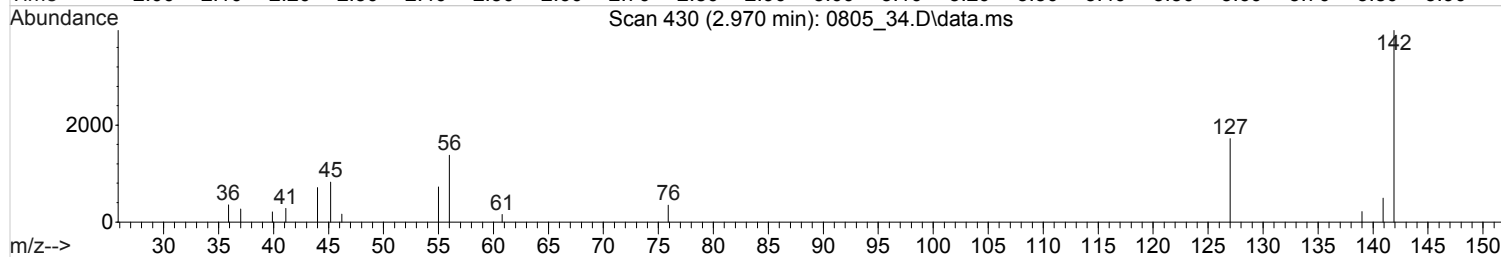
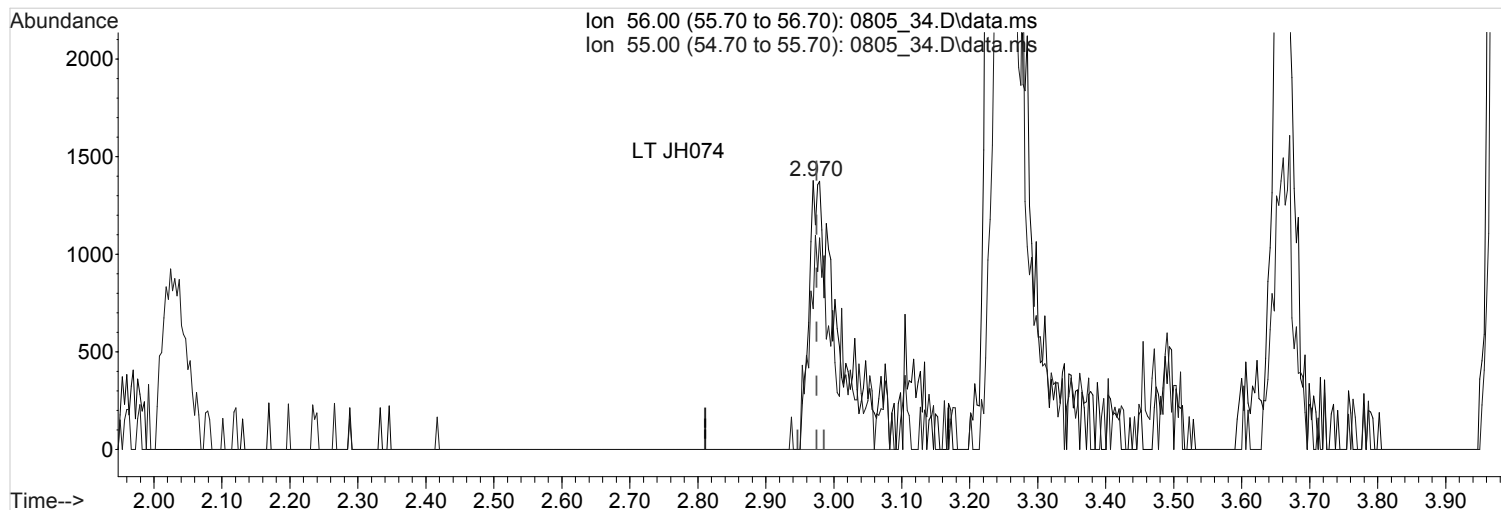
response 1915

Ion	Exp%	Act%
56.00	100	100
55.00	23.90	116.55#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_34.D
 Acq On : 6 Aug 2020 12:33 pm
 Operator : 988
 Sample : SSCV VMS 5.0 ppb 20H04738
 Misc : water IS/SURR20G06381
 ALS Vial : 34 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 12:56:48 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration



(15) ACROLEIN (T,M)

2.970min (-0.005) 42.7577070 ppb m

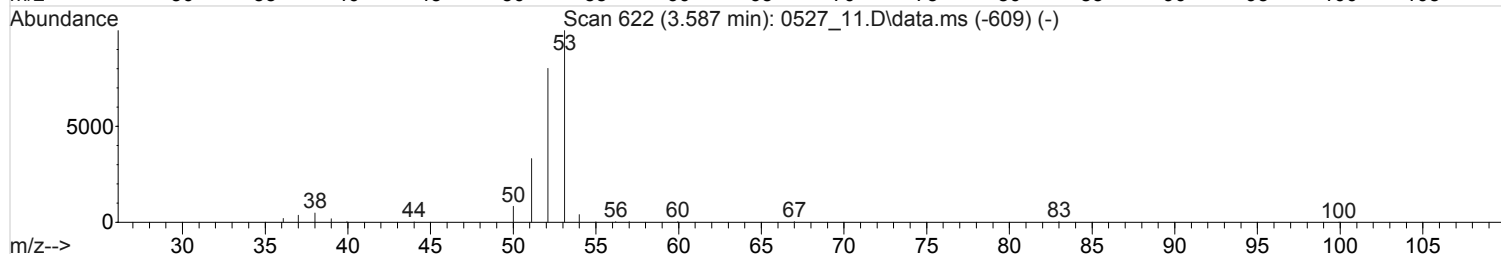
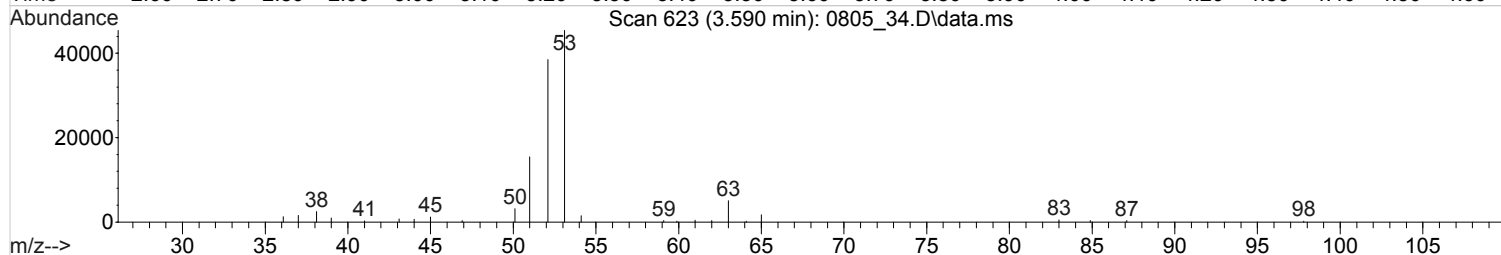
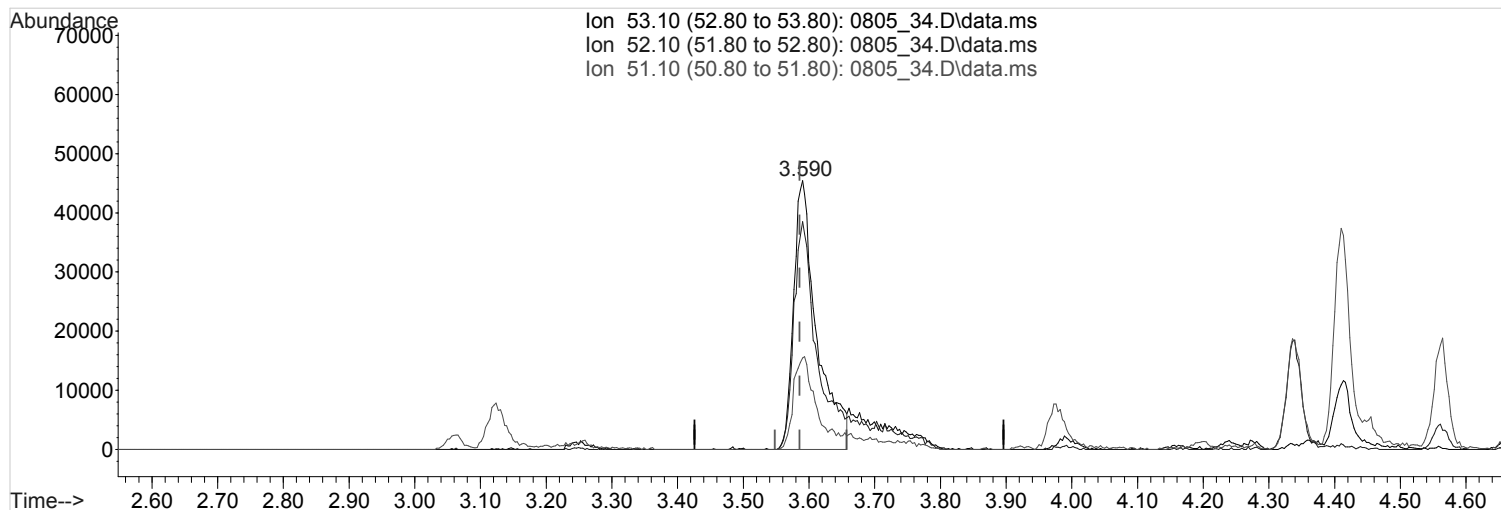
response 4431

Ion	Exp%	Act%
56.00	100	100
55.00	23.90	50.37#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_34.D
 Acq On : 6 Aug 2020 12:33 pm
 Operator : 988
 Sample : SSCV VMS 5.0 ppb 20H04738
 Misc : water IS/SURR20G06381
 ALS Vial : 34 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 12:56:48 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration



TIC: 0805_34.D\data.ms

(25) ACRYLONITRILE (T,M)

3.590min (+0.004) 24.2062067 ppb

Qvalue = 84

response 111563

Ion	Exp%	Act%
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53.10	100	100
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52.10	74.30	92.92#
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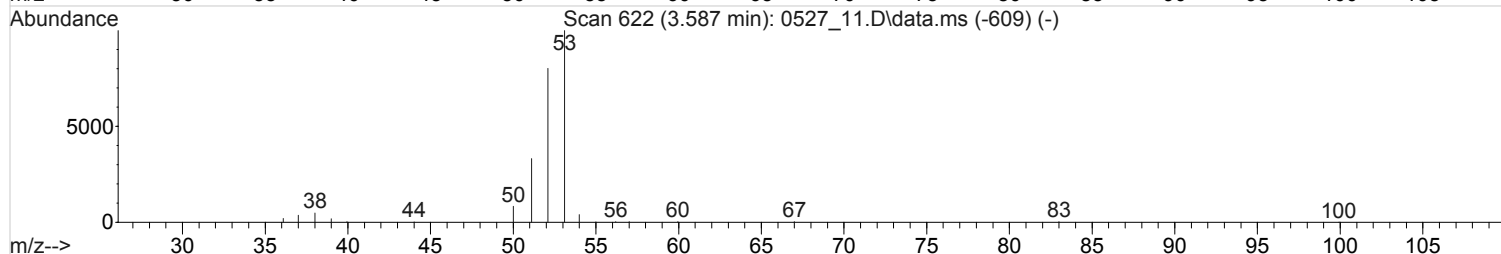
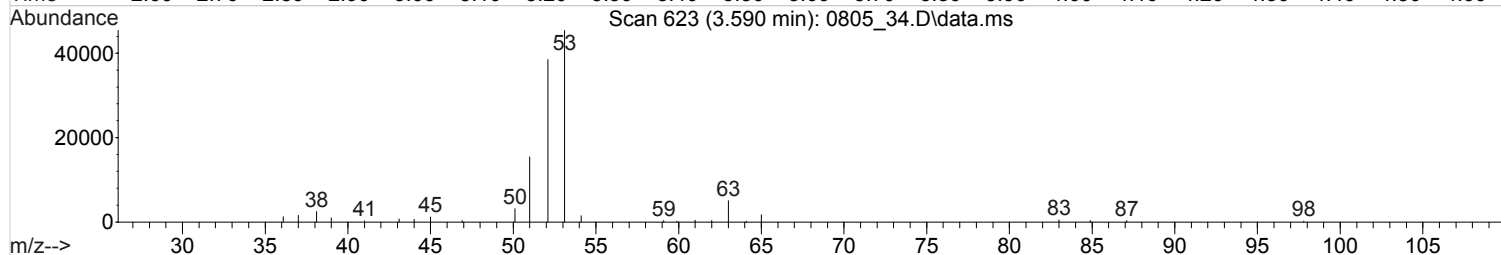
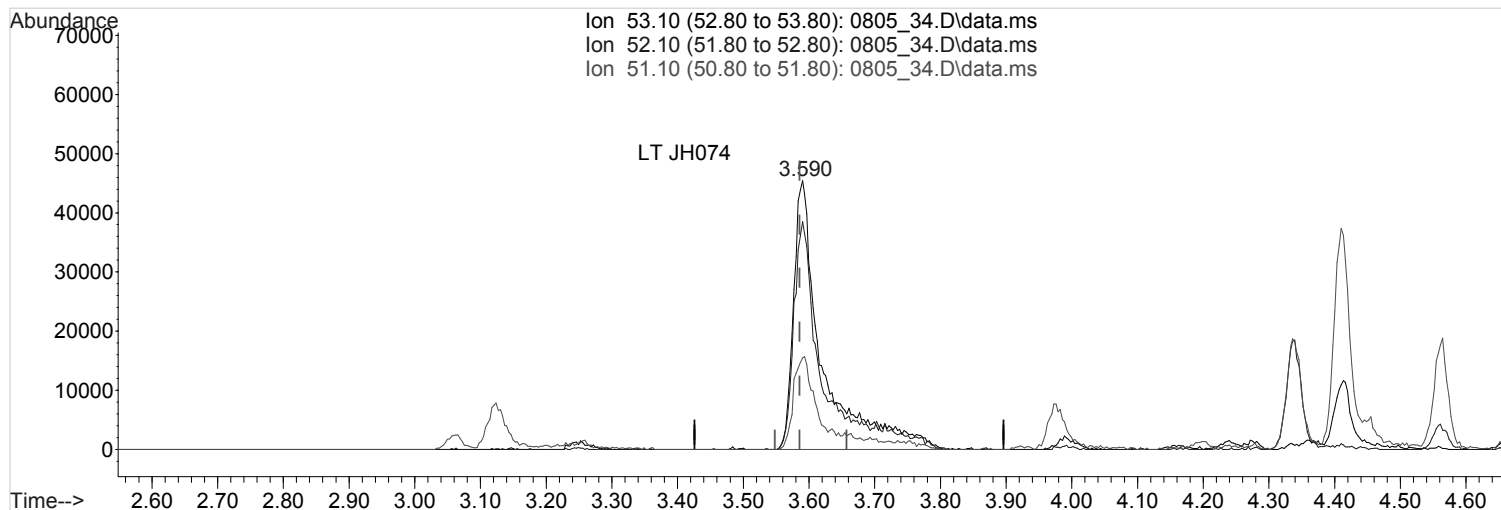
51.10	32.00	31.25
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\080520\
 Data File : 0805_34.D
 Acq On : 6 Aug 2020 12:33 pm
 Operator : 988
 Sample : SSCV VMS 5.0 ppb 20H04738
 Misc : water IS/SURR20G06381
 ALS Vial : 34 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 06 12:56:48 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration



(25) ACRYLONITRILE (T,M)

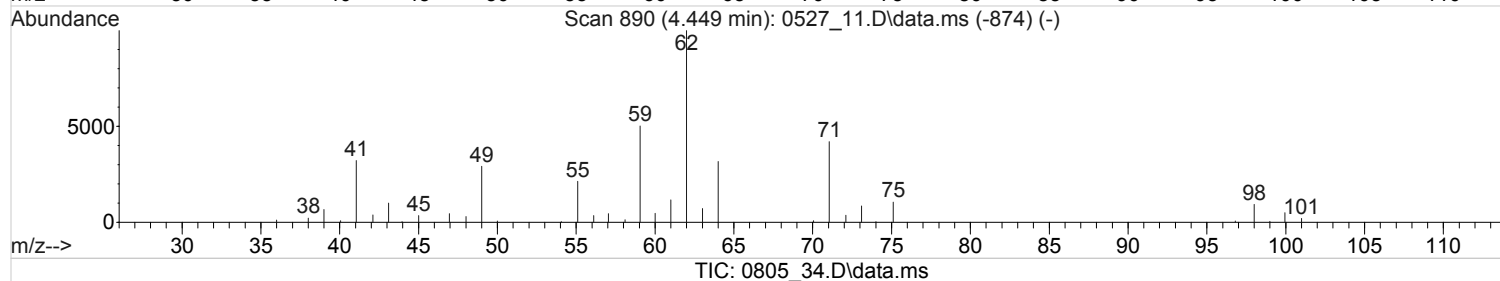
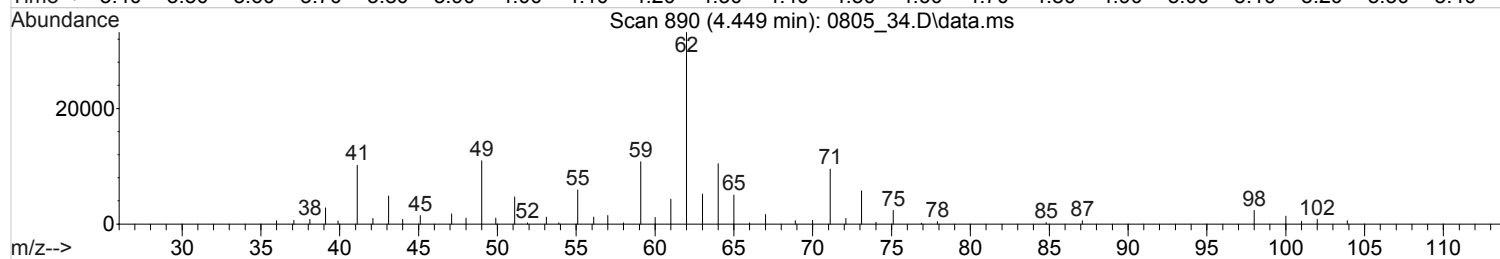
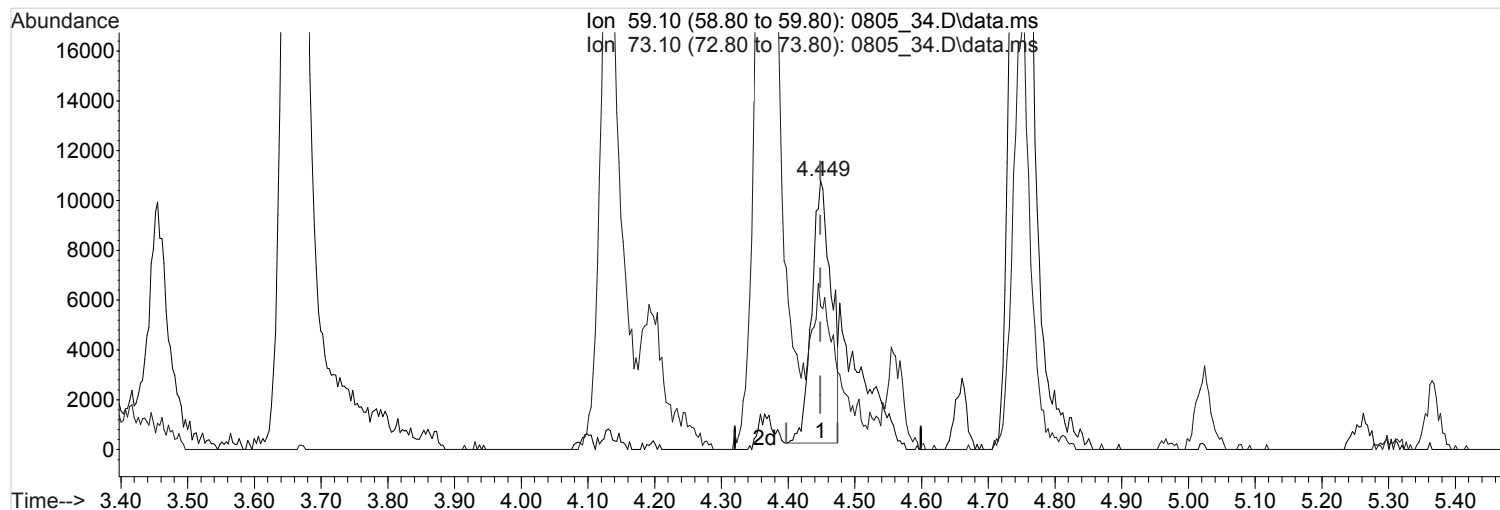
3.590min (+0.004) 30.4973513 ppb m

response 140558

Ion	Exp%	Act%
53.10	100	100
52.10	74.30	73.75
51.10	32.00	24.80#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\080520\
Data File : 0805_34.D
Acq On : 6 Aug 2020 12:33 pm
Operator : 988
Sample : SSCV VMS 5.0 ppb 20H04738
Misc : water IS/SURR20G06381
ALS Vial : 34 Sample Multiplier: 1
InstName : VOCMS38

Quant Time: Aug 06 12:57:48 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration



(50) T-AMYL ALCOHOL (T)

4.449min (+0.000) 14.8316273 ppb

Qvalue = 26

response 21172

Ion	Exp%	Act%
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59.10	100	100
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73.10	22.30	57.68#
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0.00	0.00	0.00
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0.00	0.00	0.00
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7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG: L1253445
Instrument ID: VOCMS38
Lab File ID: 0824_02
Analytical Method: 8260B

Calibration (begin) date/time: 08/05/20 21:37
Calibration (end) date/time: 08/06/20 03:26
Analysis date/time: 08/24/20 05:46
Sample ID: ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
1,1,1,2-TETRACHLOROETHANE	0.498076	0.548885		10.20		0.0050	0.005510	110	
1,1,1-TRICHLOROETHANE	0.426577	0.41451270		2.83		0.0050	0.004859	97.20	
1,1,2,2-TETRACHLOROETHANE	1.271582	1.417347	0.30	11.50		0.0050	0.005573	111	
1,1,2-TRICHLOROETHANE	0.488642	0.54913030		12.40		0.0050	0.005619	112	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.205204	0.16172110		21.20		0.0050	0.003940	78.80	
1,1-DICHLOROETHANE	0.549701	0.53529420	0.10	2.62		0.0050	0.004869	97.40	
1,1-DICHLOROETHENE	0.187844	0.16194960		13.80	20	0.0050	0.004311	86.20	
1,1-DICHLOROPROPENE	0.342594	0.31037530		9.40		0.0050	0.004530	90.60	
1,2,3-TRICHLOROBENZENE	0.652366	0.57778030		11.40		0.0050	0.004428	88.60	
1,2,3-TRICHLOROPROPANE	0.418035	0.49110610		17.50		0.0050	0.005874	117	
1,2,3-TRIMETHYLBENZENE	2.085164	2.170779		4.11		0.0050	0.005205	104	
1,2,4-TRICHLOROBENZENE	0.699216	0.64411780		7.88		0.0050	0.004606	92.10	
1,2,4-TRIMETHYLBENZENE	3.034431	3.241250		6.82		0.0050	0.005341	107	
1,2-DIBROMO-3-CHLOROPROPANE	0.246916	0.24612890		0.3190		0.0050	0.004984	99.70	
1,2-DIBROMOETHANE	0.565772	0.61833190		9.29		0.0050	0.005464	109	
1,2-DICHLOROBENZENE	1.180108	1.283412		8.75		0.0050	0.005438	109	
1,2-DICHLOROETHANE	0.480726	0.51754710		7.66		0.0050	0.005383	108	
1,2-DICHLOROPROPANE	0.225958	0.21951340		2.85	20	0.0050	0.004857	97.10	
1,3,5-TRIMETHYLBENZENE	3.213197	3.330372		3.65		0.0050	0.005182	104	
1,3-DICHLOROBENZENE	1.332587	1.433149		7.55		0.0050	0.005377	108	
1,3-DICHLOROPROPANE	0.916681	1.006646		9.81		0.0050	0.005491	110	
1,4-DICHLOROBENZENE	1.309085	1.439124		9.93		0.0050	0.005497	110	
2,2-DICHLOROPROPANE	0.320851	0.25944930		19.10		0.0050	0.004043	80.90	
2-BUTANONE (MEK)	0.289080	0.25856890		10.60		0.0250	0.02236	89.40	
2-CHLOROTOLUENE	3.057330	3.212742		5.08		0.0050	0.005254	105	
4-CHLOROTOLUENE	2.838682	2.995877		5.54		0.0050	0.005277	106	
4-METHYL-2-PENTANONE (MIBK)	1.358353	1.439443		5.97		0.0250	0.02649	106	
ACETONE	0.091562	0.08382665		8.45		0.0250	0.02289	91.60	
ACROLEIN	0.004554	0.0034818470		23.50		0.0250	0.01911	76.40	
ACRYLONITRILE	0.202538	0.20529780		1.36		0.0250	0.02534	101	
BENZENE	1.008596	0.95574910		5.24		0.0050	0.004738	94.80	
BROMOBENZENE	1.816283	1.917668		5.58		0.0050	0.005279	106	
BROMODICHLOROMETHANE	0.399675	0.39065450		2.26		0.0050	0.004887	97.70	
BROMOFORM	0.472675	0.51904550	0.10	9.81		0.0050	0.005491	110	
BROMOMETHANE	0.213669	0.21366060		0.00393 0		0.0050	0.005000	100	
CARBON TETRACHLORIDE	0.367886	0.37594810		2.19		0.0050	0.005110	102	
CHLOROBENZENE	1.324546	1.468756	0.30	10.90		0.0050	0.005544	111	
CHLORODIBROMOMETHANE	0.576570	0.65914370		14.30		0.0050	0.005716	114	
CHLOROETHANE	0.204703	0.21805270		6.52		0.0050	0.005326	107	
CHLOROFORM	0.498333	0.50302950		0.9420	20	0.0050	0.005047	101	
CHLOROMETHANE	0.435532	0.55694650	0.10	27.90		0.0050	0.006394	128	
CIS-1,2-DICHLOROETHENE	0.251210	0.25279160		0.63		0.0050	0.005031	101	
CIS-1,3-DICHLOROPROPENE	0.457050	0.42149820		7.78		0.0050	0.004611	92.20	
DI-ISOPROPYL ETHER	1.264929	1.257956		0.5510		0.0050	0.004972	99.40	
DIBROMOMETHANE	0.172485	0.17560270		1.81		0.0050	0.005090	102	
DICHLORODIFLUOROMETHANE	0.346334	0.30515840		11.90		0.0050	0.004406	88.10	
ETHYLBENZENE	0.748052	0.78876010		5.44	20	0.0050	0.005272	105	



7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1253445	Calibration (begin) date/time:	08/05/20 21:37
Instrument ID:	VOCMS38	Calibration (end) date/time:	08/06/20 03:26
Lab File ID:	0824_02	Analysis date/time:	08/24/20 05:46
Analytical Method:	8260B	Sample ID:	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
HEXACHLORO-1,3-BUTADIENE	0.304915	0.24360930		20.10		0.0050	0.003995	79.90	
ISOPROPYLBENZENE	2.389999	2.404706		0.6150		0.0050	0.005031	101	
M&P-XYLENE	0.918995	0.970116		5.56		0.01	0.01056	106	
METHYL TERT-BUTYL ETHER	0.819342	0.91987740		12.30		0.0050	0.005614	112	
METHYLENE CHLORIDE	0.252590	0.24039050		4.83		0.0050	0.004759	95.20	
N-BUTYLBENZENE	2.285453	1.949775		14.70		0.0050	0.004266	85.30	
N-PROPYLBENZENE	4.443295	4.438492		0.1080		0.0050	0.004995	99.90	
NAPHTHALENE	2.343499	2.154330		8.07		0.0050	0.004596	91.90	
O-XYLENE	0.891196	0.94203840		5.70		0.0050	0.005285	106	
P-ISOPROPYLTOLUENE	2.739901	2.6693		2.58		0.0050	0.004871	97.40	
SEC-BUTYLBENZENE	3.354511	3.330983		0.7010		0.0050	0.004965	99.30	
STYRENE	1.507790	1.621543		7.54		0.0050	0.005377	108	
TERT-BUTYLBENZENE	2.395236	2.450599		2.31		0.0050	0.005116	102	
TETRACHLOROETHENE	0.422084	0.44683320		5.86		0.0050	0.005293	106	
TOLUENE	2.193957	2.305040		5.06	20	0.0050	0.005253	105	
TRANS-1,2-DICHLOROETHENE	0.220673	0.21415740		2.95		0.0050	0.004852	97	
TRANS-1,3-DICHLOROPROPENE	0.929346	0.98090990		5.55		0.0050	0.005277	106	
TRICHLOROETHENE	0.239473	0.22653870		5.40		0.0050	0.004730	94.60	
TRICHLOROFLUOROMETHANE	0.412389	0.36687580		11		0.0050	0.004448	89	
VINYL CHLORIDE	0.345333	0.33268330		3.66	20	0.0050	0.004817	96.30	
XYLENES, TOTAL	0	1.550646		0		0.0150	0.015845	106	
1,2-DICHLOROETHANE-D4	0.394422	0.40916230		3.74		0.0160	0.01660	104	70 - 130
4-BROMOFLUOROBENZENE	0.831230	0.80695250		2.92		0.0160	0.01553	97.10	70 - 130
TOLUENE-D8	2.025618	2.205801		8.90		0.0160	0.01742	109	70 - 130

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_02.D
 Acq On : 24 Aug 2020 5:46 am
 Operator : 859
 Sample : ICV VMS 5.0 ppb
 Misc : water
 ALS Vial : 2 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 24 07:18:49 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) 8260-FLUOROBENZENE	4.564	96	322036	16.0000000	ppb	0.00	
59) 8260-CHLOROBENZENE-D5	6.503	82	143488	16.0000000	ppb	0.00	
81) 8260-1,4-DICHLOROBENZE...	7.976	152	88903	16.0000000	ppb	0.00	
109) AP9-FLUOROBENZENE	4.564	96	322036	16.0000000	ppb	0.00	
123) AP9-CHLOROBENZENE-D5	6.503	82	143488	16.0000000	ppb	0.00	
127) AP9-1,4-DICHLOROBENZEN...	7.976	152	88903	16.0000000	ppb	0.00	
System Monitoring Compounds							
48) 1,2-DICHLOROETHANE-D4	4.413	65	131765	16.5979703	ppb	0.00	
Spiked Amount	16.000		Recovery	= 103.74%			
61) TOLUENE-D8	5.481	98	316506	17.4232346	ppb	0.00	
Spiked Amount	16.000	Range	90 - 115	Recovery	= 108.90%		
80) 4-BROMOFLUOROBENZENE	7.339	95	115788	15.5326932	ppb	0.00	
Spiked Amount	16.000	Range	80 - 120	Recovery	= 97.08%		
Target Compounds						Qvalue	
4) PROPENE	1.757	41	12636	4.1622358	ppb	#	58
5) DICHLORODIFLUOROMETHANE	1.796	85	30710	4.4055463	ppb		99
6) CHLOROMETHANE	1.982	50	56049m	6.3938599	ppb		
7) VINYL CHLORIDE	2.043	62	33480	4.8168495	ppb		97
8) 1,3-BUTADIENE	2.034	39	28832m	4.3189669	ppb		
9) BROMOMETHANE	2.297	94	21502m	4.9997942	ppb		
10) CHLOROETHANE	2.371	64	21944m	5.3260760	ppb		
11) VINYL BROMIDE	2.455	106	21117m	5.9070578	ppb		
12) TRICHLOROFLUOROMETHANE	2.468	101	36921m	4.4481736	ppb		
13) DICHLOROFLUOROMETHANE	2.503	67	55400m	4.7849712	ppb		
14) ETHYL ETHER	2.632	59	28553	4.8777418	ppb		91
15) ACROLEIN	2.986	56	1752m	19.1138732	ppb		
17) 1,1-DICHLOROETHENE	2.777	96	16298	4.3107582	ppb		91
18) 1,1,2-TRICHLOROTRIFLUO...	2.815	101	16275	3.9404992	ppb	#	90
19) ACETONE	3.140	43	42180	22.8879363	ppb		99
20) IODOMETHANE	2.873	142	181556	23.8723924	ppb	#	97
21) CARBON DISULFIDE	2.812	76	53226	4.2275313	ppb	#	92
22) ALLYL CHLORIDE	3.059	76	58181	22.0061489	ppb		99
23) METHYLENE CHLORIDE	3.121	84	24192	4.7585193	ppb		88
24) METHYL ACETATE	3.198	43	154277	23.4757981	ppb	#	98
25) ACRYLONITRILE	3.587	53	103302m	25.3406193	ppb		
26) n-HEXANE	3.243	56	18494	3.5863614	ppb	#	91
27) TRANS-1,2-DICHLOROETHENE	3.214	96	21552m	4.8523795	ppb		
28) METHYL TERT-BUTYL ETHER	3.259	73	92573m	5.6135121	ppb		
30) 1,1-DICHLOROETHANE	3.564	63	53870	4.8689619	ppb		100
31) VINYL ACETATE	3.670	43	441058	24.6589125	ppb		99
32) DI-ISOPROPYL ETHER	3.455	45	126596	4.9724374	ppb		99
33) ETHYL TERT-BUTYL ETHER	3.658	59	112933	5.1274157	ppb		98
34) 2,2-DICHLOROPROPANE	3.931	77	26110m	4.0431397	ppb		
35) CIS-1,2-DICHLOROETHENE	3.860	96	25440	5.0314898	ppb		95
36) 2-BUTANONE (MEK)	4.162	43	130107	22.3613371	ppb	#	92
37) BROMOCHLOROMETHANE	3.976	130	16562	5.2229959	ppb		99
38) TETRAHYDROFURAN	4.104	42	16748	4.2093830	ppb	#	94
39) CHLOROFORM	3.995	83	50623	5.0471203	ppb		98
40) CYCLOHEXANE	3.992	84	23931	3.6567558	ppb		92
41) 1,1,1-TRICHLOROETHANE	4.133	97	41715m	4.8585961	ppb		
42) CARBON TETRACHLORIDE	4.095	117	37834m	5.1095690	ppb		
43) 1,1-DICHLOROPROPENE	4.198	75	31235	4.5297844	ppb		94

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_02.D
 Acq On : 24 Aug 2020 5:46 am
 Operator : 859
 Sample : ICV VMS 5.0 ppb
 Misc : water
 ALS Vial : 2 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 24 07:18:49 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
44)	2,2,4-TRIMETHYLPENTANE	4.236	57	63008	3.1289720	ppb	#	90
45)	n-Heptane	4.275	71	9899	2.6364575	ppb	#	86
46)	BENZENE	4.339	78	96183	4.7380170	ppb		97
47)	TERT-AMYL METHYL ETHER	4.365	73	86561	5.2189489	ppb		99
49)	1,2-DICHLOROETHANE	4.452	62	52084	5.3829707	ppb		98
50)	T-AMYL ALCOHOL	4.452	59	17085	13.5314346	ppb	#	40
51)	TRICHLOROETHENE	4.664	132	22798	4.7299379	ppb		98
52)	METHYL CYCLOHEXANE	4.667	83	25066	3.3000871	ppb		99
53)	TERT-AMYL ETHYL ETHER	4.751	59	78931	4.7031278	ppb		97
54)	1,2-DICHLOROPROPANE	4.966	62	22091	4.8573988	ppb		99
55)	DIBROMOMETHANE	4.912	93	17672	5.0903752	ppb		99
56)	BROMODICHLOROMETHANE	4.989	83	39314	4.8871498	ppb		98
57)	2-CHLOROETHYL VINYL ETHER	5.301	63	141471	24.6826730	ppb		98
58)	CIS-1,3-DICHLOROPROPENE	5.365	75	42418	4.6110695	ppb	#	99
60)	4-METHYL-2-PENTANONE (...)	5.728	43	322723	26.4924205	ppb		99
62)	TOLUENE	5.516	91	103358	5.2531572	ppb		97
63)	TRANS-1,3-DICHLOROPROPENE	5.764	75	43984	5.2774219	ppb		98
64)	1,1,2-TRICHLOROETHANE	5.873	97	24623	5.6189377	ppb		96
65)	TETRACHLOROETHENE	5.773	164	20036	5.2931828	ppb		98
66)	1,3-DICHLOROPROPANE	6.059	76	45138	5.4907125	ppb		98
67)	2-HEXANONE	6.268	58	118509	25.2976433	ppb		96
68)	CHLORODIBROMOMETHANE	6.005	129	29556	5.7160757	ppb		97
69)	1,2-DIBROMOETHANE	6.175	107	27726	5.4644999	ppb		93
70)	CHLOROBENZENE	6.516	112	65859	5.5443730	ppb		96
71)	1,1,1,2-TETRACHLOROETHANE	6.548	133	24612	5.5100491	ppb		99
72)	ETHYLBENZENE	6.513	106	35368	5.2720902	ppb		96
73)	M&P-XYLENE	6.606	106	87000	10.5562675	ppb		98
74)	O-XYLENE	6.915	106	42241	5.2852451	ppb		97
77)	STYRENE	6.950	104	72710	5.3772192	ppb		98
78)	BROMOFORM	6.989	173	23274	5.4905164	ppb		99
79)	ISOPROPYLBENZENE	7.127	105	107827	5.0307661	ppb		99
82)	BROMOBENZENE	7.423	77	53277	5.2790993	ppb		95
83)	1,1,2,2-TETRACHLOROETHANE	7.455	83	39377	5.5731631	ppb		98
84)	1,2,3-TRICHLOROPROPANE	7.554	110	13644	5.8739823	ppb		83
85)	TRANS-1,4-DICHLORO-2-B...	7.571	53	11942	4.2281776	ppb	#	95
86)	N-PROPYLBENZENE	7.410	91	123311	4.9945944	ppb		99
87)	4-ETHYLTOLUENE	7.477	105	105100	5.0668092	ppb		98
88)	2-CHLOROTOLUENE	7.532	91	89257	5.2541630	ppb	#	94
89)	4-CHLOROTOLUENE	7.641	91	83232	5.2768789	ppb		99
90)	1,3,5-TRIMETHYLBENZENE	7.529	105	92525	5.1823322	ppb		99
91)	TERT-BUTYLBENZENE	7.744	119	68083	5.1155698	ppb		99
92)	1,2,4-TRIMETHYLBENZENE	7.780	105	90049	5.3407862	ppb		98
93)	SEC-BUTYLBENZENE	7.837	105	92542	4.9649305	ppb		100
94)	1,3-DICHLOROBENZENE	7.950	146	39816	5.3773170	ppb		99
95)	P-ISOPROPYLTOLUENE	7.895	119	74159	4.8711622	ppb		98
96)	DICYCLOPENTADIENE	7.905	66	102275	4.8989524	ppb		96
97)	1,4-DICHLOROBENZENE	7.982	146	39982	5.4966782	ppb		86
98)	1,2,3-TRIMETHYLBENZENE	7.982	105	60309	5.2052975	ppb		98
99)	1,2-DICHLOROBENZENE	8.140	146	35656	5.4376912	ppb		98
100)	N-BUTYLBENZENE	8.063	91	54169	4.2656191	ppb		99
101)	1,2-DIBROMO-3-CHLOROPR...	8.435	157	6838	4.9840718	ppb		96
102)	1,3,5-TRICHLOROBENZENE	8.445	180	21848	4.9474909	ppb		97
103)	1,2,4-TRICHLOROBENZENE	8.706	180	17895	4.6059998	ppb		98
104)	HEXACHLORO-1,3-BUTADIENE	8.683	225	6768	3.9947098	ppb		92
105)	NAPHTHALENE	8.847	128	59852	4.5963955	ppb		100

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_02.D
 Acq On : 24 Aug 2020 5:46 am
 Operator : 859
 Sample : ICV VMS 5.0 ppb
 Misc : water
 ALS Vial : 2 Sample Multiplier: 1
 InstName : VOCMS38

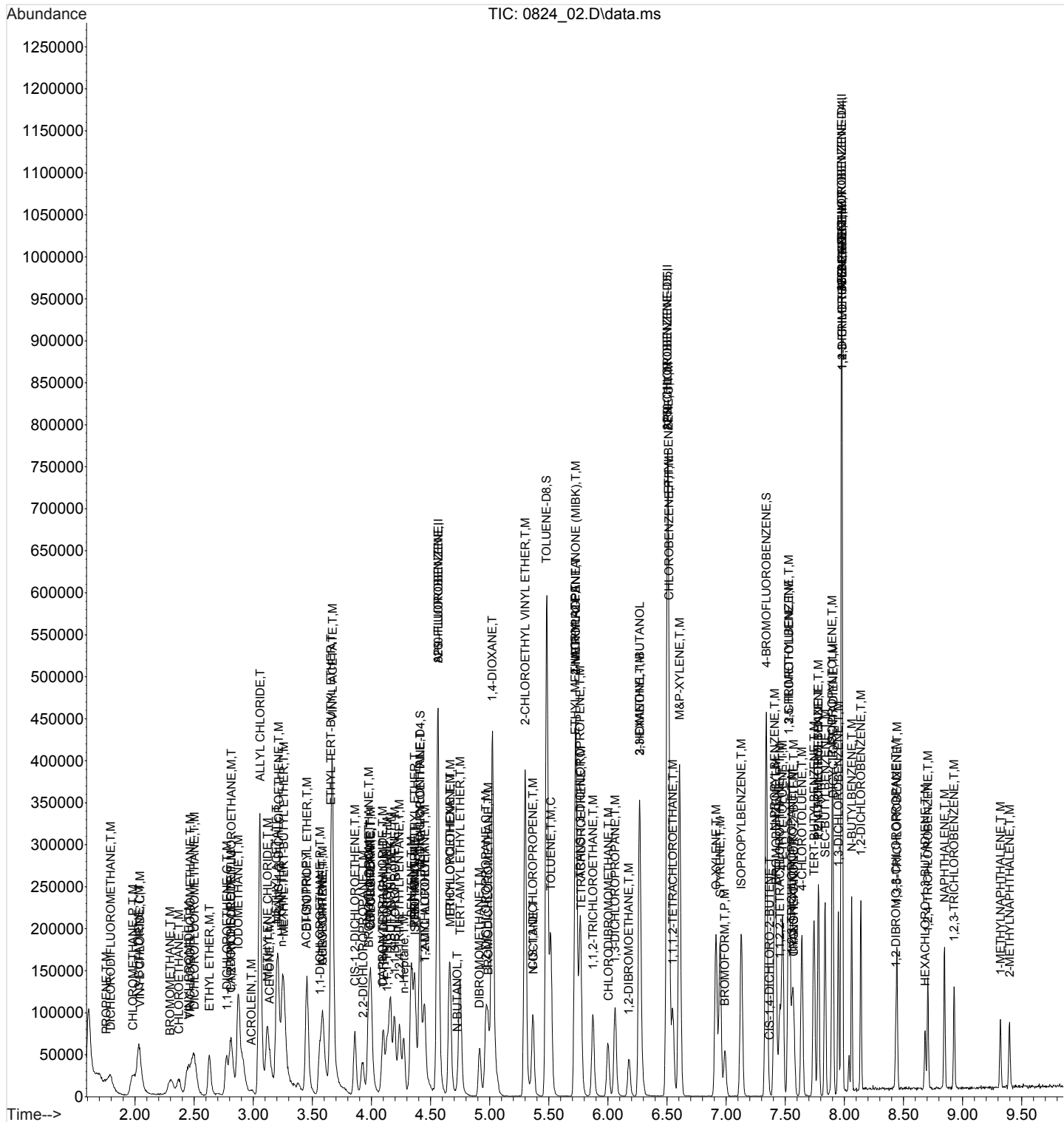
Quant Time: Aug 24 07:18:49 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
106)	1,2,3-TRICHLOROBENZENE	8.927	180	16052	4.4283437	ppb		98
107)	1-METHYLNAPHTHALENE	9.320	142	18154	3.3347186	ppb		98
108)	2-METHYLNAPHTHALENE	9.397	142	17364	3.7881835	ppb		98
112)	ACETONITRILE	3.449	41	19049	13.5970256	ppb	#	51
113)	CHLOROPRENE	3.587	53	85479	6.5106918	ppb	#	37
114)	PROPIONITRILE	4.365	54	358	0.1697727	ppb	#	1
115)	ETHYL ACETATE	3.989	43	4390	0.2952712	ppb	#	66
116)	METHACRYLONITRILE	4.410	67	63683	14.7050483	ppb	#	1
118)	ISOBUTANOL	4.368	43	38701	51.3280271	ppb	#	85
119)	N-BUTANOL	4.725	56	685	1.8798701	ppb	#	17
121)	1,4-DIOXANE	5.021	88	2014	62.1734202	ppb	#	32
122)	N-OCTANE	5.368	85	547	0.1544086	ppb	#	1
124)	2-NITROPROPANE	5.728	43	322723	75.1189424	ppb	#	41
125)	3,3-DIMETHYL-1-BUTANOL	6.268	57	43294	32.2172543	ppb	#	50
126)	ETHYL METHACRYLATE	5.722	69	1821	0.1724626	ppb	#	1
128)	CIS-1,4-DICHLORO-2-BUTENE	7.365	53	447	0.1189735	ppb	#	18
129)	CYCLOHEXANONE	7.571	55	253	1.1000070	ppb	#	1
130)	PENTACHLOROETHANE	7.780	117	2821	0.9231527	ppb	#	6

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

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_02.D
Acq On : 24 Aug 2020 5:46 am
Operator : 859
Sample : ICV VMS 5.0 ppb
Misc : water
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS38

Quant Time: Aug 24 07:18:49 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration





7E-OR

REPORTING LEVEL VERIFICATION SINGLE COMPONENT ANALYTES

SDG:	L1253445	Calibration (begin) date/time:	07/30/20 23:48
Instrument ID:	VOCMS35	Calibration (end) date/time:	08/06/20 01:48
Lab File ID:	0824_31	Analysis date/time:	08/24/20 09:26
Analytical Method:	8260B	Sample ID:	RL

Analyte	True Value mg/l	Result mg/l	Result % Rec.	Limits %
1,1,1,2-TETRACHLOROETHANE	0.0010	0.001166	117	60 - 140
1,1,1-TRICHLOROETHANE	0.0010	0.0008760	87.60	60 - 140
1,1,2,2-TETRACHLOROETHANE	0.0010	0.0009762	97.60	60 - 140
1,1,2-TRICHLOROETHANE	0.0010	0.001063	106	60 - 140
1,1,2-TRICHLOROTRIFLUOROETHANE	0.0010	0.0009318	93.20	60 - 140
1,1-DICHLOROETHANE	0.0010	0.0009041	90.40	60 - 140
1,1-DICHLOROETHENE	0.0010	0.001050	105	60 - 140
1,1-DICHLOROPROPENE	0.0010	0.0008971	89.70	60 - 140
1,2,3-TRICHLOROBENZENE	0.0010	0.001560	156	60 - 140
1,2,3-TRICHLOROPROPANE	0.0010	0.001247	125	60 - 140
1,2,3-TRIMETHYLBENZENE	0.0010	0.0009540	95.40	60 - 140
1,2,4-TRICHLOROBENZENE	0.0010	0.001342	134	60 - 140
1,2,4-TRIMETHYLBENZENE	0.0010	0.0008922	89.20	60 - 140
1,2-DIBROMO-3-CHLOROPROPANE	0.0010	0.001076	108	60 - 140
1,2-DIBROMOETHANE	0.0010	0.001034	103	60 - 140
1,2-DICHLOROBENZENE	0.0010	0.0009244	92.40	60 - 140
1,2-DICHLOROETHANE	0.0010	0.0009411	94.10	60 - 140
1,2-DICHLOROPROPANE	0.0010	0.0009417	94.20	60 - 140
1,3,5-TRIMETHYLBENZENE	0.0010	0.0009360	93.60	60 - 140
1,3-DICHLOROBENZENE	0.0010	0.001074	107	60 - 140
1,3-DICHLOROPROPANE	0.0010	0.0009642	96.40	60 - 140
1,4-DICHLOROBENZENE	0.0010	0.0009860001	98.60	60 - 140
2,2-DICHLOROPROPANE	0.0010	0.0008322	83.20	60 - 140
2-BUTANONE (MEK)	0.0050	0.004952	99	60 - 140
2-CHLOROTOLUENE	0.0010	0.0008900	89	60 - 140
4-CHLOROTOLUENE	0.0010	0.0009774	97.70	60 - 140
4-METHYL-2-PENTANONE (MIBK)	0.0050	0.004890	97.80	60 - 140
ACETONE	0.0050	0.005050	101	60 - 140
ACROLEIN	0.0050	0.003821	76.40	60 - 140
ACRYLONITRILE	0.0050	0.005725	115	60 - 140
BENZENE	0.0010	0.0009359	93.60	60 - 140
BROMOBENZENE	0.0010	0.0009426	94.30	60 - 140
BROMODICHLOROMETHANE	0.0010	0.0009901	99	60 - 140
BROMOFORM	0.0010	0.001044	104	60 - 140
BROMOMETHANE	0.0010	0.0006819	68.20	60 - 140
CARBON TETRACHLORIDE	0.0010	0.0008297	83	60 - 140
CHLOROBENZENE	0.0010	0.001008	101	60 - 140
CHLORODIBROMOMETHANE	0.0010	0.001089	109	60 - 140
CHLOROETHANE	0.0010	0.0007148	71.50	60 - 140
CHLOROFORM	0.0010	0.0009805	98	60 - 140
CHLOROMETHANE	0.0010	0.0005987	59.90	60 - 140
CIS-1,2-DICHLOROETHENE	0.0010	0.001024	102	60 - 140
CIS-1,3-DICHLOROPROPENE	0.0010	0.0009079	90.80	60 - 140
DI-ISOPROPYL ETHER	0.0010	0.0008900	89	60 - 140
DIBROMOMETHANE	0.0010	0.0009428	94.30	60 - 140
DICHLORODIFLUOROMETHANE	0.0010	0.001075	107	60 - 140
ETHYLBENZENE	0.0010	0.0009850	98.50	60 - 140
HEXACHLORO-1,3-BUTADIENE	0.0010	0.001404	140	60 - 140



REPORTING LEVEL VERIFICATION SINGLE COMPONENT ANALYTES

SDG:	L1253445	Calibration (begin) date/time:	07/30/20 23:48
Instrument ID:	VOCMS35	Calibration (end) date/time:	08/06/20 01:48
Lab File ID:	0824_31	Analysis date/time:	08/24/20 09:26
Analytical Method:	8260B	Sample ID:	RL

Analyte	True Value <i>mg/l</i>	Result <i>mg/l</i>	Result <i>% Rec.</i>	Limits <i>%</i>
ISOPROPYLBENZENE	0.0010	0.0008885	88.80	60 - 140
M&P-XYLENE	0.0020	0.001889	94.40	60 - 140
METHYL TERT-BUTYL ETHER	0.0010	0.0009463	94.60	60 - 140
METHYLENE CHLORIDE	0.0010	0.0009859001	98.60	60 - 140
N-BUTYLBENZENE	0.0010	0.0009069	90.70	60 - 140
N-PROPYLBENZENE	0.0010	0.0009419	94.20	60 - 140
NAPHTHALENE	0.0010	0.001539	154	60 - 140
O-XYLENE	0.0010	0.0009380	93.80	60 - 140
P-ISOPROPYLTOLUENE	0.0010	0.001004	100	60 - 140
SEC-BUTYLBENZENE	0.0010	0.0009131	91.30	60 - 140
STYRENE	0.0010	0.0009101	91	60 - 140
TERT-BUTYLBENZENE	0.0010	0.0009908	99.10	60 - 140
TETRACHLOROETHENE	0.0010	0.001167	117	60 - 140
TOLUENE	0.0010	0.0009765	97.60	60 - 140
TRANS-1,2-DICHLOROETHENE	0.0010	0.001027	103	60 - 140
TRANS-1,3-DICHLOROPROPENE	0.0010	0.0008380	83.80	60 - 140
TRICHLOROETHENE	0.0010	0.001106	111	60 - 140
TRICHLOROFLUOROMETHANE	0.0010	0.0009556	95.60	60 - 140
VINYL CHLORIDE	0.0010	0.0007438	74.40	60 - 140

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_31.D
 Acq On : 24 Aug 2020 9:26 am
 Operator : 859
 Sample : RL VMS 1 PPB
 Misc : water
 ALS Vial : 31 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 25 09:18:26 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:55:39 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	477109	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.503	82	190741	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZENE...	7.940	152	318076	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.561	96	477109	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.503	82	190741	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZENE...	7.940	152	318076	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.413	65	141404	14.7337426	ppb	0.00
Spiked Amount 16.000			Recovery	=	92.09%	
61) TOLUENE-D8	5.484	98	486917	16.6045326	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	103.78%	
80) 4-BROMOFLUOROBENZENE	7.336	95	168991	17.3981669	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	=	108.74%	
Target Compounds						
					Qvalue	
4) PROPENE	1.689	41	3108	0.9067255	ppb #	64
5) DICHLORODIFLUOROMETHANE	1.728	85	9979	1.0750891	ppb #	69
6) CHLOROMETHANE	1.918	50	10518	0.5986696	ppb #	89
7) VINYL CHLORIDE	1.985	62	11017	0.7438206	ppb	94
8) 1,3-BUTADIENE	1.966	39	8451	0.6548233	ppb	93
9) BROMOMETHANE	2.233	94	11300	0.6818730	ppb #	92
10) CHLOROETHANE	2.313	64	7459	0.7148213	ppb	98
11) VINYL BROMIDE	2.400	106	8794	1.3162919	ppb	96
12) TRICHLOROFLUOROMETHANE	2.413	101	12671	0.9555553	ppb #	67
13) DICHLOROFLUOROMETHANE	2.448	67	15731	0.9121445	ppb	98
14) ETHYL ETHER	2.596	59	6944	1.0409266	ppb	95
15) ACROLEIN	2.953	56	2302	3.8210564	ppb	90
17) 1,1-DICHLOROETHENE	2.747	96	6708	1.0498713	ppb	90
18) 1,1,2-TRICHLOROTRIFLUO...	2.779	101	6181	0.9318300	ppb #	86
19) ACETONE	3.127	43	14601	5.0502141	ppb	99
20) IODOMETHANE	2.850	142	76718	5.2598787	ppb	96
21) CARBON DISULFIDE	2.789	76	27307	1.3354911	ppb	97
22) ALLYL CHLORIDE	3.037	76	20290	4.5045213	ppb	86
23) METHYLENE CHLORIDE	3.098	84	8440	0.9859322	ppb	93
24) METHYL ACETATE	3.185	43	33690	4.7416139	ppb #	93
25) ACRYLONITRILE	3.583	53	21622	5.7249532	ppb	98
26) n-HEXANE	3.230	56	5022	0.9680505	ppb #	94
27) TRANS-1,2-DICHLOROETHENE	3.197	96	8164	1.0273868	ppb	92
28) METHYL TERT-BUTYL ETHER	3.246	73	21746	0.9463230	ppb	95
29) TERT-BUTYL ALCOHOL	3.268	59	1248	11.2253695	ppb #	100
30) 1,1-DICHLOROETHANE	3.554	63	13857	0.9040639	ppb	99
31) VINYL ACETATE	3.664	43	62027	4.4690485	ppb	98
32) DI-ISOPROPYL ETHER	3.442	45	24859	0.8900127	ppb	96
33) ETHYL TERT-BUTYL ETHER	3.648	59	22556	0.8741637	ppb	96
34) 2,2-DICHLOROPROPANE	3.918	77	7488	0.8321843	ppb	98
35) CIS-1,2-DICHLOROETHENE	3.857	96	9411	1.0240869	ppb	92
36) 2-BUTANONE (MEK)	4.162	43	28464	4.9522532	ppb	97
37) BROMOCHLOROMETHANE	3.969	130	7105	1.1219433	ppb #	71
38) TETRAHYDROFURAN	4.098	42	4281	1.2463465	ppb	97
39) CHLOROFORM	3.995	83	15397	0.9805103	ppb	97
40) CYCLOHEXANE	3.982	84	7751	0.7852098	ppb	98
41) 1,1,1-TRICHLOROETHANE	4.130	97	11121	0.8759561	ppb	96
42) CARBON TETRACHLORIDE	4.095	117	9878	0.8296637	ppb	91

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_31.D
 Acq On : 24 Aug 2020 9:26 am
 Operator : 859
 Sample : RL VMS 1 PPB
 Misc : water
 ALS Vial : 31 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 25 09:18:26 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:55:39 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) 1,1-DICHLOROPROPENE	4.194	75	9242	0.8971226	ppb		95
44) 2,2,4-TRIMETHYLPENTANE	4.233	57	14396	0.7803368	ppb		96
45) n-Heptane	4.271	71	3312	0.7773168	ppb	#	93
46) BENZENE	4.336	78	30769	0.9359017	ppb		97
47) TERT-AMYL METHYL ETHER	4.365	73	21991	0.9120580	ppb		93
49) 1,2-DICHLOROETHANE	4.451	62	12059	0.9410926	ppb		96
50) T-AMYL ALCOHOL	4.455	59	8099	13.8716108	ppb		91
51) TRICHLOROETHENE	4.664	132	10084	1.1060285	ppb		92
52) METHYL CYCLOHEXANE	4.667	83	8236	0.7872461	ppb		99
53) TERT-AMYL ETHYL ETHER	4.747	59	16525	0.8782923	ppb		96
54) 1,2-DICHLOROPROPANE	4.976	62	5421	0.9416838	ppb		97
55) DIBROMOMETHANE	4.921	93	6115	0.9428042	ppb	#	77
56) BROMODICHLOROMETHANE	4.995	83	11382	0.9900732	ppb		92
57) 2-CHLOROETHYL VINYL ETHER	5.303	63	28624	4.3390737	ppb		99
58) CIS-1,3-DICHLOROPROPENE	5.368	75	11672	0.9079004	ppb		99
60) 4-METHYL-2-PENTANONE (...)	5.731	43	63015	4.8898900	ppb		98
62) TOLUENE	5.519	91	34290	0.9764885	ppb		98
63) TRANS-1,3-DICHLOROPROPENE	5.766	75	10551	0.8380242	ppb		97
64) 1,1,2-TRICHLOROETHANE	5.876	97	8825	1.0630258	ppb		93
65) TETRACHLOROETHENE	5.773	164	8458	1.1668157	ppb		96
66) 1,3-DICHLOROPROPANE	6.062	76	12755	0.9642050	ppb		97
67) 2-HEXANONE	6.271	58	26605	5.8003576	ppb		74
68) CHLORODIBROMOMETHANE	6.004	129	10084	1.0892881	ppb		99
69) 1,2-DIBROMOETHANE	6.184	107	9377	1.0336897	ppb		99
70) CHLOROBENZENE	6.516	112	24721	1.0075044	ppb		94
71) 1,1,1,2-TETRACHLOROETHANE	6.548	133	9487	1.1657746	ppb	#	16
72) ETHYLBENZENE	6.509	106	12169	0.9849596	ppb		90
73) M&P-XYLENE	6.606	106	28697	1.8886364	ppb		92
74) O-XYLENE	6.911	106	13492	0.9380089	ppb		96
77) STYRENE	6.946	104	21514	0.9100568	ppb		99
78) BROMOFORM	6.988	173	7653	1.0438348	ppb	#	90
79) ISOPROPYLBENZENE	7.123	105	32651	0.8885127	ppb		98
82) BROMOBENZENE	7.413	77	15385	0.9426162	ppb	#	80
83) 1,1,2,2-TETRACHLOROETHANE	7.445	83	12540	0.9761995	ppb		99
84) 1,2,3-TRICHLOROPROPANE	7.545	110	4667	1.2471885	ppb	#	62
85) TRANS-1,4-DICHLORO-2-B...	7.564	53	2173	0.9044052	ppb	#	67
86) N-PROPYLBENZENE	7.400	91	39561	0.9419353	ppb		97
87) 4-ETHYLTOLUENE	7.464	105	33287	0.9384879	ppb		92
88) 2-CHLOROTOLUENE	7.519	91	25234	0.8899781	ppb	#	89
89) 4-CHLOROTOLUENE	7.618	91	25404	0.9773522	ppb		96
90) 1,3,5-TRIMETHYLBENZENE	7.512	105	27979	0.9359958	ppb		91
91) TERT-BUTYLBENZENE	7.712	119	25781	0.9908482	ppb		99
92) 1,2,4-TRIMETHYLBENZENE	7.747	105	29411	0.8922387	ppb		92
93) SEC-BUTYLBENZENE	7.802	105	40857	0.9130758	ppb		100
94) 1,3-DICHLOROBENZENE	7.914	146	31390	1.0738880	ppb		99
95) P-ISOPROPYLTOLUENE	7.860	119	42632	1.0037212	ppb		98
96) DICYCLOPENTADIENE	7.869	66	45917	0.9010243	ppb	#	93
97) 1,4-DICHLOROBENZENE	7.946	146	32946	0.9860247	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.943	105	41020	0.9540266	ppb		96
99) 1,2-DICHLOROBENZENE	8.091	146	32543	0.9244309	ppb		99
100) N-BUTYLBENZENE	8.017	91	42270	0.9069076	ppb		98
101) 1,2-DIBROMO-3-CHLOROPR...	8.339	157	7391	1.0763657	ppb		94
102) 1,3,5-TRICHLOROBENZENE	8.345	180	28650	1.1247616	ppb		95
103) 1,2,4-TRICHLOROBENZENE	8.544	180	31072	1.3421153	ppb		97
104) HEXACHLORO-1,3-BUTADIENE	8.525	225	13342	1.4039629	ppb		98

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_31.D
Acq On : 24 Aug 2020 9:26 am
Operator : 859
Sample : RL VMS 1 PPB
Misc : water
ALS Vial : 31 Sample Multiplier: 1
InstName : VOCMS35

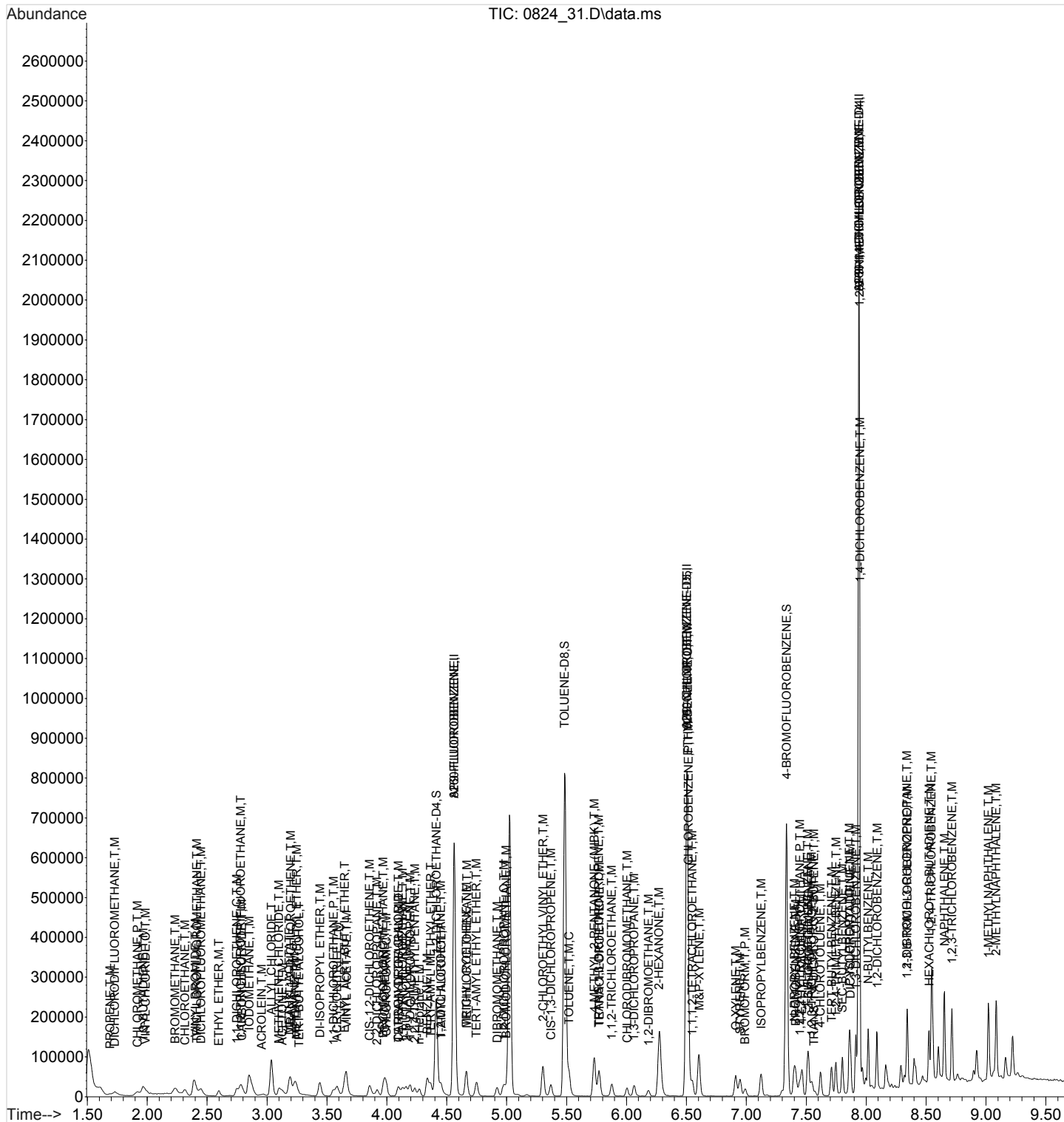
Quant Time: Aug 25 09:18:26 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:55:39 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) NAPHTHALENE	8.654	128	100871	1.5388923	ppb	100
106) 1,2,3-TRICHLOROBENZENE	8.715	180	33750	1.5601704	ppb	98
107) 1-METHYLNAPHTHALENE	9.020	142	57645	2.0607301	ppb	95
108) 2-METHYLNAPHTHALENE	9.085	142	57828	2.1043050	ppb	98

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

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_31.D
Acq On : 24 Aug 2020 9:26 am
Operator : 859
Sample : RL VMS 1 PPB
Misc : water
ALS Vial : 31 Sample Multiplier: 1
InstName : VOCMS35

Quant Time: Aug 25 09:18:26 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:55:39 2020
Response via : Initial Calibration





7E-OR

REPORTING LEVEL VERIFICATION SINGLE COMPONENT ANALYTES

SDG:	L1253445	Calibration (begin) date/time:	08/05/20 21:37
Instrument ID:	VOCMS38	Calibration (end) date/time:	08/06/20 03:26
Lab File ID:	0824_04	Analysis date/time:	08/24/20 06:25
Analytical Method:	8260B	Sample ID:	RL

Analyte	True Value mg/l	Result mg/l	Result % Rec.	Limits %
1,1,1,2-TETRACHLOROETHANE	0.0010	0.001143	114	60 - 140
1,1,1-TRICHLOROETHANE	0.0010	0.0008745	87.40	60 - 140
1,1,2,2-TETRACHLOROETHANE	0.0010	0.001112	111	60 - 140
1,1,2-TRICHLOROETHANE	0.0010	0.001157	116	60 - 140
1,1,2-TRICHLOROTRIFLUOROETHANE	0.0010	0.0003827	38.30	60 - 140
1,1-DICHLOROETHANE	0.0010	0.001011	101	60 - 140
1,1-DICHLOROETHENE	0.0010	0.0008516	85.20	60 - 140
1,1-DICHLOROPROPENE	0.0010	0.0009934	99.30	60 - 140
1,2,3-TRICHLOROBENZENE	0.0010	0.001105	111	60 - 140
1,2,3-TRICHLOROPROPANE	0.0010	0.001380	138	60 - 140
1,2,3-TRIMETHYLBENZENE	0.0010	0.001151	115	60 - 140
1,2,4-TRICHLOROBENZENE	0.0010	0.001116	112	60 - 140
1,2,4-TRIMETHYLBENZENE	0.0010	0.001134	113	60 - 140
1,2-DIBROMO-3-CHLOROPROPANE	0.0010	0.001085	108	60 - 140
1,2-DIBROMOETHANE	0.0010	0.001140	114	60 - 140
1,2-DICHLOROBENZENE	0.0010	0.001136	114	60 - 140
1,2-DICHLOROETHANE	0.0010	0.001101	110	60 - 140
1,2-DICHLOROPROPANE	0.0010	0.0009934	99.30	60 - 140
1,3,5-TRIMETHYLBENZENE	0.0010	0.001079	108	60 - 140
1,3-DICHLOROBENZENE	0.0010	0.001225	122	60 - 140
1,3-DICHLOROPROPANE	0.0010	0.001259	126	60 - 140
1,4-DICHLOROBENZENE	0.0010	0.001176	118	60 - 140
2,2-DICHLOROPROPANE	0.0010	0.0008655	86.50	60 - 140
2-BUTANONE (MEK)	0.0050	0.004548	91	60 - 140
2-CHLOROTOLUENE	0.0010	0.001152	115	60 - 140
4-CHLOROTOLUENE	0.0010	0.001164	116	60 - 140
4-METHYL-2-PENTANONE (MIBK)	0.0050	0.005033	101	60 - 140
ACETONE	0.0050	0.004334	86.70	60 - 140
ACRYLONITRILE	0.0050	0.004051	81	60 - 140
BENZENE	0.0010	0.001098	110	60 - 140
BROMOBENZENE	0.0010	0.001191	119	60 - 140
BROMODICHLOROMETHANE	0.0010	0.001038	104	60 - 140
BROMOFORM	0.0010	0.001017	102	60 - 140
BROMOMETHANE	0.0010	0.0002948	29.50	60 - 140
CARBON TETRACHLORIDE	0.0010	0.0009937	99.40	60 - 140
CHLOROBENZENE	0.0010	0.001212	121	60 - 140
CHLORODIBROMOMETHANE	0.0010	0.001086	109	60 - 140
CHLOROETHANE	0.0010	0.001233	123	60 - 140
CHLOROFORM	0.0010	0.001063	106	60 - 140
CHLOROMETHANE	0.0010	0.0004078	40.80	60 - 140
CIS-1,2-DICHLOROETHENE	0.0010	0.001075	108	60 - 140
CIS-1,3-DICHLOROPROPENE	0.0010	0.0009801	98	60 - 140
DI-ISOPROPYL ETHER	0.0010	0.0009883	98.80	60 - 140
DIBROMOMETHANE	0.0010	0.001107	111	60 - 140
DICHLORODIFLUOROMETHANE	0.0010	0.0003246	32.50	60 - 140
ETHYLBENZENE	0.0010	0.001133	113	60 - 140
HEXACHLORO-1,3-BUTADIENE	0.0010	0.0009114	91.10	60 - 140
ISOPROPYLBENZENE	0.0010	0.001055	105	60 - 140



REPORTING LEVEL VERIFICATION SINGLE COMPONENT ANALYTES

SDG:	L1253445	Calibration (begin) date/time:	08/05/20 21:37
Instrument ID:	VOCMS38	Calibration (end) date/time:	08/06/20 03:26
Lab File ID:	0824_04	Analysis date/time:	08/24/20 06:25
Analytical Method:	8260B	Sample ID:	RL

Analyte	True Value <i>mg/l</i>	Result <i>mg/l</i>	Result <i>% Rec.</i>	Limits <i>%</i>
M&P-XYLENE	0.0020	0.002261	113	60 - 140
METHYL TERT-BUTYL ETHER	0.0010	0.001013	101	60 - 140
METHYLENE CHLORIDE	0.0010	0.0008862	88.60	60 - 140
N-BUTYLBENZENE	0.0010	0.001010	101	60 - 140
N-PROPYLBENZENE	0.0010	0.001116	112	60 - 140
NAPHTHALENE	0.0010	0.0009401	94	60 - 140
O-XYLENE	0.0010	0.001151	115	60 - 140
P-ISOPROPYLTOLUENE	0.0010	0.001013	101	60 - 140
SEC-BUTYLBENZENE	0.0010	0.001090	109	60 - 140
STYRENE	0.0010	0.001057	106	60 - 140
TERT-BUTYLBENZENE	0.0010	0.001159	116	60 - 140
TETRACHLOROETHENE	0.0010	0.001183	118	60 - 140
TOLUENE	0.0010	0.001182	118	60 - 140
TRANS-1,2-DICHLOROETHENE	0.0010	0.001032	103	60 - 140
TRANS-1,3-DICHLOROPROPENE	0.0010	0.001055	105	60 - 140
TRICHLOROETHENE	0.0010	0.001128	113	60 - 140
TRICHLOROFLUOROMETHANE	0.0010	0.0004115	41.10	60 - 140
VINYL CHLORIDE	0.0010	0.0007236	72.40	60 - 140

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_04.D
 Acq On : 24 Aug 2020 6:25 am
 Operator : 859
 Sample : RL VMS 1 ppb
 Misc : water
 ALS Vial : 4 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 25 08:18:26 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

Compound			R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards								
1)	8260-FLUOROBENZENE		4.561	96	318276	16.0000000	ppb	0.00
59)	8260-CHLOROBENZENE-D5		6.503	82	142253	16.0000000	ppb	0.00
81)	8260-1,4-DICHLOROBENZENE...		7.976	152	87633	16.0000000	ppb	0.00
109)	AP9-FLUOROBENZENE		4.561	96	318276	16.0000000	ppb	0.00
123)	AP9-CHLOROBENZENE-D5		6.503	82	142253	16.0000000	ppb	0.00
127)	AP9-1,4-DICHLOROBENZENE...		7.976	152	87633	16.0000000	ppb	0.00
System Monitoring Compounds								
48)	1,2-DICHLOROETHANE-D4		4.413	65	132049	16.8302500	ppb	0.00
	Spiked Amount	16.000			Recovery	=	105.19%	
61)	TOLUENE-D8		5.484	98	314680	17.4731066	ppb	0.00
	Spiked Amount	16.000	Range	90 - 115	Recovery	=	109.21%	
80)	4-BROMOFLUOROBENZENE		7.339	95	117723	15.9293729	ppb	0.00
	Spiked Amount	16.000	Range	80 - 120	Recovery	=	99.56%	
Target Compounds							Qvalue	
4)	PROPENE		1.757	41	1939	1.6918995	ppb #	84
5)	DICHLORODIFLUOROMETHANE		1.786	85	2236	0.3245580	ppb #	81
6)	CHLOROMETHANE		1.973	50	3533	0.4077927	ppb #	74
7)	VINYL CHLORIDE		2.047	62	4971	0.7236389	ppb #	83
8)	1,3-BUTADIENE		2.027	39	4044	0.6129383	ppb #	50
9)	BROMOMETHANE		2.284	94	1253	0.2947982	ppb #	10
10)	CHLOROETHANE		2.378	64	5022	1.2333002	ppb #	79
11)	VINYL BROMIDE		2.448	106	2071	0.5861647	ppb #	1
12)	TRICHLOROFLUOROMETHANE		2.474	101	3376	0.4115392	ppb #	99
13)	DICHLOROFLUOROMETHANE		2.493	67	12299	1.0748303	ppb #	51
14)	ETHYL ETHER		2.635	59	5771	0.9975132	ppb #	95
17)	1,1-DICHLOROETHENE		2.780	96	3182	0.8515694	ppb #	70
18)	1,1,2-TRICHLOROTRIFLUO...		2.815	101	1562	0.3826589	ppb #	54
19)	ACETONE		3.146	43	7893	4.3335389	ppb #	62
20)	IODOMETHANE		2.879	142	41058	5.4624020	ppb #	95
21)	CARBON DISULFIDE		2.815	76	12445	1.0001346	ppb #	97
22)	ALLYL CHLORIDE		3.056	76	13269	5.0781040	ppb #	92
23)	METHYLENE CHLORIDE		3.117	84	4453	0.8862440	ppb #	65
24)	METHYL ACETATE		3.204	43	28391	4.3711972	ppb #	99
25)	ACRYLONITRILE		3.590	53	16322	4.0511880	ppb #	99
26)	n-HEXANE		3.243	56	4483	0.8796147	ppb #	89
27)	TRANS-1,2-DICHLOROETHENE		3.214	96	4528	1.0315116	ppb #	94
28)	METHYL TERT-BUTYL ETHER		3.265	73	16515	1.0132799	ppb #	91
30)	1,1-DICHLOROETHANE		3.564	63	11058	1.0112686	ppb #	99
31)	VINYL ACETATE		3.673	43	72214	4.0850761	ppb #	100
32)	DI-ISOPROPYL ETHER		3.452	45	24869	0.9883441	ppb #	92
33)	ETHYL TERT-BUTYL ETHER		3.661	59	21905	1.0062860	ppb #	98
34)	2,2-DICHLOROPROPANE		3.927	77	5524	0.8654980	ppb #	84
35)	CIS-1,2-DICHLOROETHENE		3.863	96	5371	1.0748186	ppb #	93
36)	2-BUTANONE (MEK)		4.162	43	26155	4.5483342	ppb #	80
37)	BROMOCHLOROMETHANE		3.979	130	3150	1.0051202	ppb #	99
38)	TETRAHYDROFURAN		4.101	42	3077	0.7824985	ppb #	66
39)	CHLOROFORM		3.998	83	10538	1.0630520	ppb #	96
40)	CYCLOHEXANE		3.995	84	5629	0.8702958	ppb #	96
41)	1,1,1-TRICHLOROETHANE		4.136	97	7421	0.8745437	ppb #	89
42)	CARBON TETRACHLORIDE		4.095	117	7272	0.9937026	ppb #	91
43)	1,1-DICHLOROPROPENE		4.198	75	6770	0.9934024	ppb #	98
44)	2,2,4-TRIMETHYLPENTANE		4.239	57	16159	0.8119345	ppb #	97

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_04.D
 Acq On : 24 Aug 2020 6:25 am
 Operator : 859
 Sample : RL VMS 1 ppb
 Misc : water
 ALS Vial : 4 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 25 08:18:26 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
45) n-Heptane	4.281	71	2935	0.7909301	ppb	#	81
46) BENZENE	4.345	78	22029	1.0979779	ppb		99
47) TERT-AMYL METHYL ETHER	4.371	73	16531	1.0084641	ppb		97
49) 1,2-DICHLOROETHANE	4.452	62	10531	1.1012548	ppb	#	89
50) T-AMYL ALCOHOL	4.445	59	2458	1.9697507	ppb		92
51) TRICHLOROETHENE	4.661	132	5374	1.1281241	ppb		99
52) METHYL CYCLOHEXANE	4.670	83	6834	0.9103657	ppb		98
53) TERT-AMYL ETHYL ETHER	4.754	59	16453	0.9919386	ppb		99
54) 1,2-DICHLOROPROPANE	4.966	62	4465	0.9933685	ppb		98
55) DIBROMOMETHANE	4.915	93	3797	1.1066371	ppb		99
56) BROMODICHLOROMETHANE	4.989	83	8255	1.0383076	ppb	#	97
57) 2-CHLOROETHYL VINYL ETHER	5.304	63	26146	4.6156254	ppb		97
58) CIS-1,3-DICHLOROPROPENE	5.368	75	8911	0.9801182	ppb	#	77
60) 4-METHYL-2-PENTANONE (...)	5.731	43	60788	5.0334264	ppb		100
62) TOLUENE	5.519	91	23062	1.1822993	ppb		98
63) TRANS-1,3-DICHLOROPROPENE	5.767	75	8715	1.0547478	ppb	#	97
64) 1,1,2-TRICHLOROETHANE	5.873	97	5028	1.1573446	ppb		95
65) TETRACHLOROETHENE	5.776	164	4441	1.1834251	ppb		95
66) 1,3-DICHLOROPROPANE	6.062	76	10263	1.2592584	ppb	#	88
67) 2-HEXANONE	6.268	58	21316	4.5897454	ppb		99
68) CHLORODIBROMOMETHANE	6.005	129	5569	1.0863848	ppb		96
69) 1,2-DIBROMOETHANE	6.185	107	5732	1.1395241	ppb		99
70) CHLOROBENZENE	6.519	112	14270	1.2117567	ppb		88
71) 1,1,1,2-TETRACHLOROETHANE	6.548	133	5060	1.1426500	ppb	#	20
72) ETHYLBENZENE	6.509	106	7538	1.1333984	ppb		98
73) M&P-XYLENE	6.606	106	18475	2.2611519	ppb		97
74) O-XYLENE	6.914	106	9119	1.1508860	ppb		94
77) STYRENE	6.950	104	14165	1.0566577	ppb		100
78) BROMOFORM	6.992	173	4272	1.0165472	ppb		94
79) ISOPROPYLBENZENE	7.127	105	22411	1.0546831	ppb		97
82) BROMOBENZENE	7.419	77	11849	1.1911062	ppb		96
83) 1,1,2,2-TETRACHLOROETHANE	7.455	83	7744	1.1119191	ppb		99
84) 1,2,3-TRICHLOROPROPANE	7.564	110	3160	1.3801514	ppb	#	63
85) TRANS-1,4-DICHLORO-2-B...	7.574	53	2396	0.8606205	ppb	#	82
86) N-PROPYLBENZENE	7.410	91	27156	1.1158683	ppb		98
87) 4-ETHYLTOLUENE	7.480	105	22571	1.1039042	ppb		99
88) 2-CHLOROTOLUENE	7.532	91	19292	1.1520922	ppb		98
89) 4-CHLOROTOLUENE	7.641	91	18102	1.1642925	ppb		96
90) 1,3,5-TRIMETHYLBENZENE	7.532	105	18996	1.0793867	ppb		100
91) TERT-BUTYLBENZENE	7.744	119	15210	1.1594000	ppb		95
92) 1,2,4-TRIMETHYLBENZENE	7.783	105	18843	1.1337703	ppb		95
93) SEC-BUTYLBENZENE	7.837	105	20021	1.0897046	ppb		99
94) 1,3-DICHLOROBENZENE	7.950	146	8941	1.2250191	ppb		98
95) P-ISOPROPYLTOLUENE	7.895	119	15196	1.0126206	ppb		99
96) DICYCLOPENTADIENE	7.905	66	20353	0.9890333	ppb		97
97) 1,4-DICHLOROBENZENE	7.982	146	8433	1.1761606	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.982	105	13143	1.1508181	ppb		95
99) 1,2-DICHLOROBENZENE	8.140	146	7340	1.1356035	ppb		99
100) N-BUTYLBENZENE	8.062	91	12643	1.0100204	ppb		98
101) 1,2-DIBROMO-3-CHLOROPR...	8.435	157	1467	1.0847609	ppb		97
102) 1,3,5-TRICHLOROBENZENE	8.448	180	4309	0.9899165	ppb		90
103) 1,2,4-TRICHLOROBENZENE	8.709	180	4272	1.1155067	ppb		92
104) HEXACHLORO-1,3-BUTADIENE	8.683	225	1522	0.9113564	ppb		90
105) NAPHTHALENE	8.847	128	12067	0.9401275	ppb		98
106) 1,2,3-TRICHLOROBENZENE	8.930	180	3950	1.1054981	ppb		95

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_04.D
 Acq On : 24 Aug 2020 6:25 am
 Operator : 859
 Sample : RL VMS 1 ppb
 Misc : water
 ALS Vial : 4 Sample Multiplier: 1
 InstName : VOCMS38

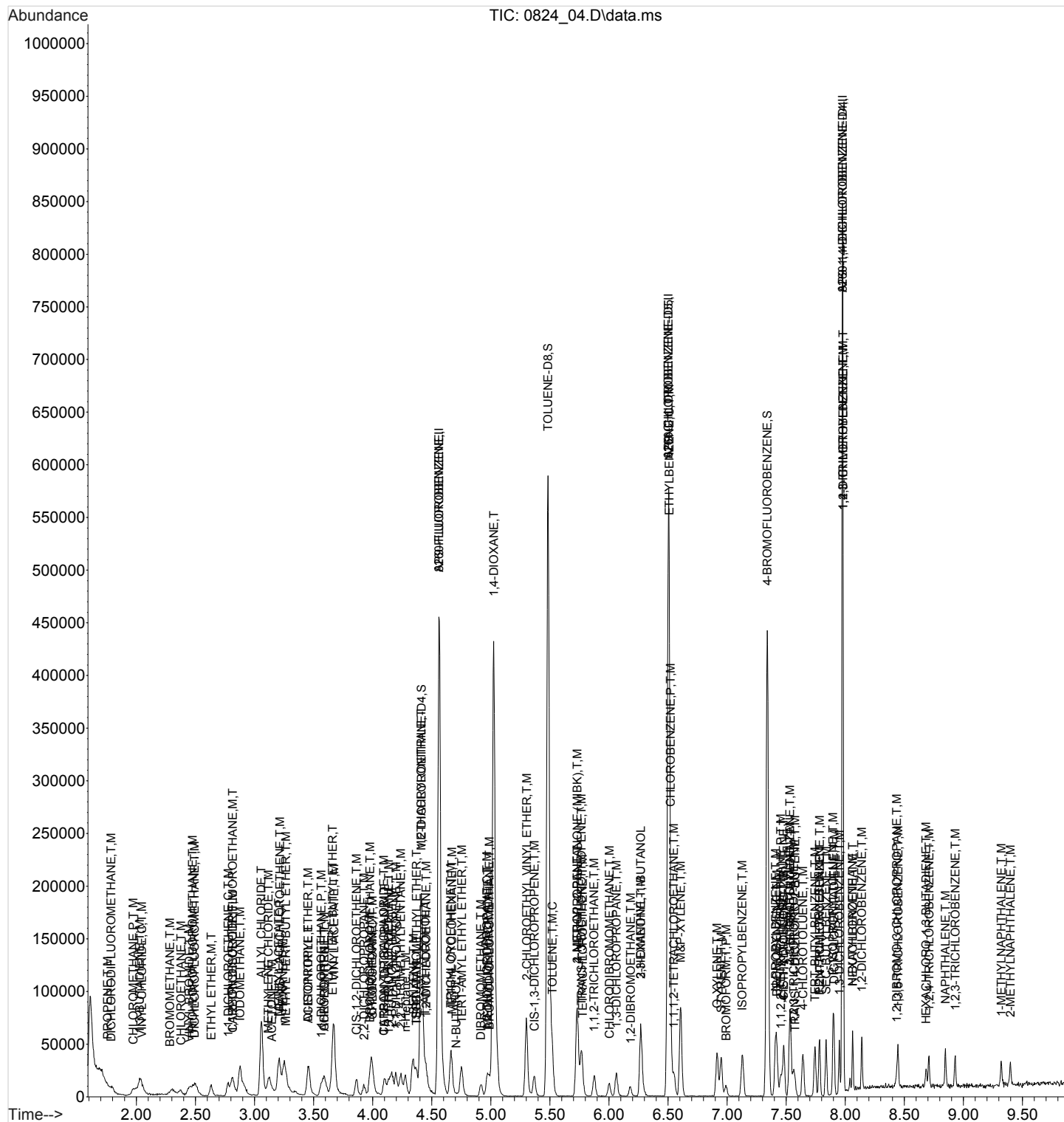
Quant Time: Aug 25 08:18:26 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
107)	1-METHYLNAPHTHALENE	9.320	142	5514	1.0275486	ppb		93
108)	2-METHYLNAPHTHALENE	9.397	142	4643	1.0276108	ppb		92
112)	ACETONITRILE	3.455	41	4057	2.9300651	ppb	#	43
113)	CHLOROPRENE	3.590	53	16322	1.2578869	ppb	#	37
116)	METHACRYLONITRILE	4.410	67	62323	14.5610208	ppb	#	1
118)	ISOBUTANOL	4.368	43	7104	9.5331378	ppb	#	92
119)	N-BUTANOL	4.706	56	207	0.5747886	ppb	#	17
120)	METHYL METHACRYLATE	4.972	41	4429	0.3768147	ppb	#	31
121)	1,4-DIOXANE	5.024	88	1982	61.9083850	ppb	#	26
124)	2-NITROPROPANE	5.731	43	60788	14.2722206	ppb	#	40
125)	3,3-DIMETHYL-1-BUTANOL	6.268	57	8252	6.1940425	ppb	#	48
128)	CIS-1,4-DICHLORO-2-BUTENE	7.477	53	355	0.0958561	ppb	#	6
130)	PENTACHLOROETHANE	7.783	117	508	0.1686487	ppb	#	6
131)	HEXACHLOROETHANE	8.062	117	358	0.1117144	ppb	#	13

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

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_04.D
Acq On : 24 Aug 2020 6:25 am
Operator : 859
Sample : RL VMS 1 ppb
Misc : water
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS38

Quant Time: Aug 25 08:18:26 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration





8B-OR

ANALYTICAL SEQUENCE

SDG:	L1253445	Analytical Method:	8260B
Instrument ID:	VOCMS35	Calibration Start Date:	07/30/20 23:48
		Calibration End Date:	08/06/20 01:48

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	1A	0730_22	07/30/20 23:48		
CAL	5A	0730_23	07/31/20 00:09		
CAL	10A	0730_24	07/31/20 00:29		
CAL	15A	0730_25	07/31/20 00:49		
CAL	20A	0730_26	07/31/20 01:10		
TUNE	VOCMS35080520a0805A_01508935	0805A_01	08/05/20 21:07		
TUNE	VOCMS35080520a0805A_02508935	0805A_02	08/05/20 21:27		
CAL	0.04	0805A_05	08/05/20 22:27		
CAL	0.1	0805A_06	08/05/20 22:47		
CAL	0.2	0805A_07	08/05/20 23:07		
CAL	0.5	0805A_08	08/05/20 23:27		
CAL	1	0805A_09	08/05/20 23:48		
CAL	2	0805A_10	08/06/20 00:07		
CAL	5.0	0805A_11	08/06/20 00:27		
CAL	25	0805A_12	08/06/20 00:48		
CAL	75	0805A_13	08/06/20 01:08		
CAL	100	0805A_14	08/06/20 01:28		
CAL	200	0805A_15	08/06/20 01:48		
SSCV	VOCMS35080520a0805A_19508935	0805A_19	08/06/20 03:09		
TUNE	VOCMS350824200824_01T508935	0824_01T	08/23/20 22:48		
TUNE	VOCMS350824200824_28T508935	0824_28T	08/24/20 08:25		
ICV	VOCMS350824200824_29508935	0824_29	08/24/20 08:45		
LCS	R3563561-1	0824_30A	08/24/20 09:06	1	WG1531252
LCS	R3563563-1	0824_30	08/24/20 09:06	1	WG1531305
RL	VOCMS350824200824_31508935	0824_31	08/24/20 09:26		
BLANK	R3563561-2	0824_32A	08/24/20 09:46	1	WG1531252
BLANK	R3563563-2	0824_32	08/24/20 09:46	1	WG1531305
L1252664-34	L1252664-34	0824_33	08/24/20 11:18	1	WG1531305
TRIP BLANK	L1253445-15	0824_34	08/24/20 11:39	1	WG1531305
L1252260-20	L1252260-20	0824_35	08/24/20 12:54	1	WG1531252
L1252260-18	L1252260-18	0824_36	08/24/20 13:14	5	WG1531252
L1252377-02	L1252377-02	0824_37	08/24/20 13:34	5	WG1531252
L1252384-02	L1252384-02	0824_38	08/24/20 13:55	10	WG1531252
MW-06SR	L1253445-10	0824_44	08/24/20 15:57	1	WG1531305
MW-15S	L1253445-11	0824_45	08/24/20 16:17	1	WG1531305
MW-15I	L1253445-12	0824_46	08/24/20 16:37	1	WG1531305
MW-16S	L1253445-13	0824_47	08/24/20 16:58	1	WG1531305
DUP-3	L1253445-14	0824_48	08/24/20 17:18	1	WG1531305
L1253465-07	L1253465-07	0824_49	08/24/20 17:38	1	WG1531305
L1253465-08	L1253465-08	0824_50	08/24/20 17:58	1	WG1531305
L1253465-09	L1253465-09	0824_51	08/24/20 18:19	1	WG1531305
L1253465-10	L1253465-10	0824_52	08/24/20 18:39	10	WG1531305
L1253465-11	L1253465-11	0824_53	08/24/20 19:00	10	WG1531305
L1253465-12	L1253465-12	0824_54	08/24/20 20:03	10	WG1531305
TUNE	VOCMS350824200824_55T508935	0824_55T	08/24/20 20:22		



8B-OR

ANALYTICAL SEQUENCE

SDG:	L1253445	Analytical Method:	8260B
Instrument ID:	VOCMS38	Calibration Start Date:	08/05/20 21:37
		Calibration End Date:	08/06/20 03:26

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
TUNE	VOCMS380805200805_04508937	0805_04	08/05/20 19:41		
CAL	0.5	0805_10	08/05/20 21:37		
CAL	1	0805_11	08/05/20 21:56		
CAL	2	0805_12	08/05/20 22:15		
CAL	5.0	0805_13	08/05/20 22:34		
CAL	25	0805_14	08/05/20 22:54		
CAL	75	0805_15	08/05/20 23:13		
CAL	100	0805_16	08/05/20 23:33		
CAL	200	0805_17	08/05/20 23:52		
CAL	1A	0805_24	08/06/20 02:08		
CAL	5A	0805_25	08/06/20 02:27		
CAL	10A	0805_26	08/06/20 02:47		
CAL	15A	0805_27	08/06/20 03:06		
CAL	20A	0805_28	08/06/20 03:26		
TUNE	VOCMS380805200805_31508937	0805_31	08/06/20 11:09		
SSCV	VOCMS380805200805_34508937	0805_34	08/06/20 12:33		
TUNE	VOCMS380824200824_01T508937	0824_01T	08/24/20 05:27		
ICV	VOCMS380824200824_02508937	0824_02	08/24/20 05:46		
LCS	R3563649-1	0824_03	08/24/20 06:05	1	WG1531200
RL	VOCMS380824200824_04508937	0824_04	08/24/20 06:25		
BLANK	R3563649-2	0824_05	08/24/20 06:44	1	WG1531200
L1253385-14	L1253385-14	0824_08	08/24/20 08:30	1	WG1531200
L1253385-15	L1253385-15	0824_09	08/24/20 08:49	1	WG1531200
L1253385-16	L1253385-16	0824_10	08/24/20 09:09	1	WG1531200
L1253385-17	L1253385-17	0824_11	08/24/20 09:28	1	WG1531200
L1253385-18	L1253385-18	0824_12	08/24/20 09:47	1	WG1531200
MW-02S	L1253445-01	0824_14	08/24/20 10:26	1	WG1531200
MW-02I	L1253445-02	0824_15	08/24/20 10:45	1	WG1531200
MW-03S	L1253445-03	0824_16	08/24/20 11:04	1	WG1531200
MW-03I	L1253445-04	0824_17	08/24/20 11:24	1	WG1531200
MW-04I	L1253445-05	0824_18	08/24/20 11:43	1	WG1531200
MW-04D	L1253445-06	0824_19	08/24/20 12:02	1	WG1531200
MW-5S	L1253445-07	0824_20	08/24/20 12:21	1	WG1531200
MW-07S	L1253445-08	0824_21	08/24/20 12:41	1	WG1531200
MW-07I	L1253445-09	0824_22	08/24/20 13:00	1	WG1531200
MS	R3563649-3	0824_26	08/24/20 14:18	1	WG1531200
MSD	R3563649-4	0824_27	08/24/20 14:37	1	WG1531200
TUNE	VOCMS380824200824_28T508937	0824_28T	08/24/20 14:56		
TUNE	VOCMS380824200825_01T508937	0825_01T	08/25/20 01:18		



Lab Sample IDs:

L1253445-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15

Analytical Method:

8260B

Matrix:

GW

Prep Method:

8260B

Analyte	CAS	MDL mg/l	RDL mg/l
n-Butylbenzene	104-51-8	0.000157	0.0010
sec-Butylbenzene	135-98-8	0.000125	0.0010
tert-Butylbenzene	98-06-6	0.000127	0.0010
Carbon tetrachloride	56-23-5	0.000128	0.0010
Chlorobenzene	108-90-7	0.000116	0.0010
Chlorodibromomethane	124-48-1	0.000140	0.0010
Chloroethane	75-00-3	0.000192	0.0050
Chloroform	67-66-3	0.000111	0.0050
Chloromethane	74-87-3	0.000960	0.0025
Acetone	67-64-1	0.0113	0.05
2-Chlorotoluene	95-49-8	0.000106	0.0010
4-Chlorotoluene	106-43-4	0.000114	0.0010
1,2-Dibromo-3-Chloropropane	96-12-8	0.000276	0.0050
1,2-Dibromoethane	106-93-4	0.000126	0.0010
Dibromomethane	74-95-3	0.000122	0.0010
1,2-Dichlorobenzene	95-50-1	0.000107	0.0010
1,3-Dichlorobenzene	541-73-1	0.000110	0.0010
1,4-Dichlorobenzene	106-46-7	0.000120	0.0010
Dichlorodifluoromethane	75-71-8	0.000374	0.0050
1,1-Dichloroethane	75-34-3	0.0001	0.0010
Acrolein	107-02-8	0.002540	0.05
1,2-Dichloroethane	107-06-2	0.00008190	0.0010
1,1-Dichloroethene	75-35-4	0.000188	0.0010
cis-1,2-Dichloroethene	156-59-2	0.000126	0.0010
trans-1,2-Dichloroethene	156-60-5	0.000149	0.0010
1,2-Dichloropropane	78-87-5	0.000149	0.0010
1,1-Dichloropropene	563-58-6	0.000142	0.0010
1,3-Dichloropropane	142-28-9	0.000110	0.0010
cis-1,3-Dichloropropene	10061-01-5	0.000111	0.0010
trans-1,3-Dichloropropene	10061-02-6	0.000118	0.0010
2,2-Dichloropropane	594-20-7	0.000161	0.0010
Acrylonitrile	107-13-1	0.000671	0.01
Di-isopropyl ether	108-20-3	0.000105	0.0010
Ethylbenzene	100-41-4	0.000137	0.0010
Hexachloro-1,3-butadiene	87-68-3	0.000337	0.0010
Isopropylbenzene	98-82-8	0.000105	0.0010
p-Isopropyltoluene	99-87-6	0.000120	0.0010
2-Butanone (MEK)	78-93-3	0.001190	0.01
Methylene Chloride	75-09-2	0.000430	0.0050
4-Methyl-2-pentanone (MIBK)	108-10-1	0.000478	0.01
Methyl tert-butyl ether	1634-04-4	0.000101	0.0010
Naphthalene	91-20-3	0.0010	0.0050
Benzene	71-43-2	0.00009410	0.0010
n-Propylbenzene	103-65-1	0.00009930	0.0010
Styrene	100-42-5	0.000118	0.0010
1,1,1,2-Tetrachloroethane	630-20-6	0.000147	0.0010
1,1,2,2-Tetrachloroethane	79-34-5	0.000133	0.0010
1,1,2-Trichlorotrifluoroethane	76-13-1	0.000180	0.0010
Tetrachloroethene	127-18-4	0.0003	0.0010
Toluene	108-88-3	0.000278	0.0010
1,2,3-Trichlorobenzene	87-61-6	0.000230	0.0010

DETECTION LIMIT SUMMARY



Lab Sample IDs: L1253445-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15 Analytical Method: 8260B
Matrix: GW Prep Method: 8260B

Analyte	CAS	MDL <i>mg/l</i>	RDL <i>mg/l</i>
1,2,4-Trichlorobenzene	120-82-1	0.000481	0.0010
1,1,1-Trichloroethane	71-55-6	0.000149	0.0010
Bromobenzene	108-86-1	0.000118	0.0010
1,1,2-Trichloroethane	79-00-5	0.000158	0.0010
Trichloroethene	79-01-6	0.000190	0.0010
Trichlorofluoromethane	75-69-4	0.000160	0.0050
1,2,3-Trichloropropane	96-18-4	0.000237	0.0025
1,2,4-Trimethylbenzene	95-63-6	0.000322	0.0010
1,2,3-Trimethylbenzene	526-73-8	0.000104	0.0010
1,3,5-Trimethylbenzene	108-67-8	0.000104	0.0010
Vinyl chloride	75-01-4	0.000234	0.0010
Xylenes, Total	1330-20-7	0.000174	0.0030
Bromodichloromethane	75-27-4	0.000136	0.0010
Bromoform	75-25-2	0.000129	0.0010
Bromomethane	74-83-9	0.000605	0.0050

SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET



Lab Sample ID: R3563563-2
Client Sample ID: BLANK
Lab File ID: 0824_32
Instrument ID: VOCMS35
Analytical Batch: WG1531305
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: _____
Received Date/Time: _____
Preparation Date/Time: 08/24/20 09:46
Analysis Date/Time: 08/24/20 09:46
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	U		0.0113	0.0500
Acrolein	107-02-8	0	U		0.00254	0.0500
Acrylonitrile	107-13-1	0	U		0.000671	0.0100
Benzene	71-43-2	0	U		0.0000941	0.00100
Bromobenzene	108-86-1	0	U		0.000118	0.00100
Bromodichloromethane	75-27-4	0	U		0.000136	0.00100
Bromoform	75-25-2	0	U		0.000129	0.00100
Bromomethane	74-83-9	0	U		0.000605	0.00500
n-Butylbenzene	104-51-8	0	U		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	U		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	U		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	U		0.000128	0.00100
Chlorobenzene	108-90-7	0	U		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	U		0.000140	0.00100
Chloroethane	75-00-3	0	U		0.000192	0.00500
Chloroform	67-66-3	0	U		0.000111	0.00500
Chloromethane	74-87-3	0	U		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	U		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	U		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	8.34	U		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	U		0.000126	0.00100
Dibromomethane	74-95-3	0	U		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	U		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	U		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	U		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	U		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	U		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	U		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	U		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	U		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	U		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	U		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	U		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	U		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	U		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	U		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	U		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	U		0.000105	0.00100
Ethylbenzene	100-41-4	0	U		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	8.53	U		0.000337	0.00100
Isopropylbenzene	98-82-8	0	U		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	U		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	U		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: R3563563-2
Client Sample ID: BLANK
Lab File ID: 0824_32
Instrument ID: VOCMS35
Analytical Batch: WG1531305
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%):

SDG: L1253445
Collected Date/Time:
Received Date/Time:
Preparation Date/Time: 08/24/20 09:46
Analysis Date/Time: 08/24/20 09:46
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol:
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result mg/l	Qualifier	MDL mg/l	RDL mg/l
Methylene Chloride	75-09-2	0	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	5.74	U		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	U		0.000101	0.00100
Naphthalene	91-20-3	8.65	U		0.00100	0.00500
n-Propylbenzene	103-65-1	0	U		0.0000993	0.00100
Styrene	100-42-5	0	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	U		0.000133	0.00100
Tetrachloroethene	127-18-4	0	U		0.000300	0.00100
Toluene	108-88-3	0	U		0.000278	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	U		0.000180	0.00100
1,2,3-Trichlorobenzene	87-61-6	8.72	0.000451	J	0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	8.54	U		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	U		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	U		0.000158	0.00100
Trichloroethene	79-01-6	0	U		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	U		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	U		0.000237	0.00250
1,2,3-Trimethylbenzene	526-73-8	0	U		0.000104	0.00100
1,2,4-Trimethylbenzene	95-63-6	0	U		0.000322	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	U		0.000104	0.00100
Vinyl chloride	75-01-4	0	U		0.000234	0.00100
Xylenes, Total	1330-20-7	0	U		0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_32.D
 Acq On : 24 Aug 2020 9:46 am
 Operator : 859
 Sample : BLANK 1X WG1531305
 Misc : water
 ALS Vial : 32 Sample Multiplier: 1
 InstName : VOCMS35

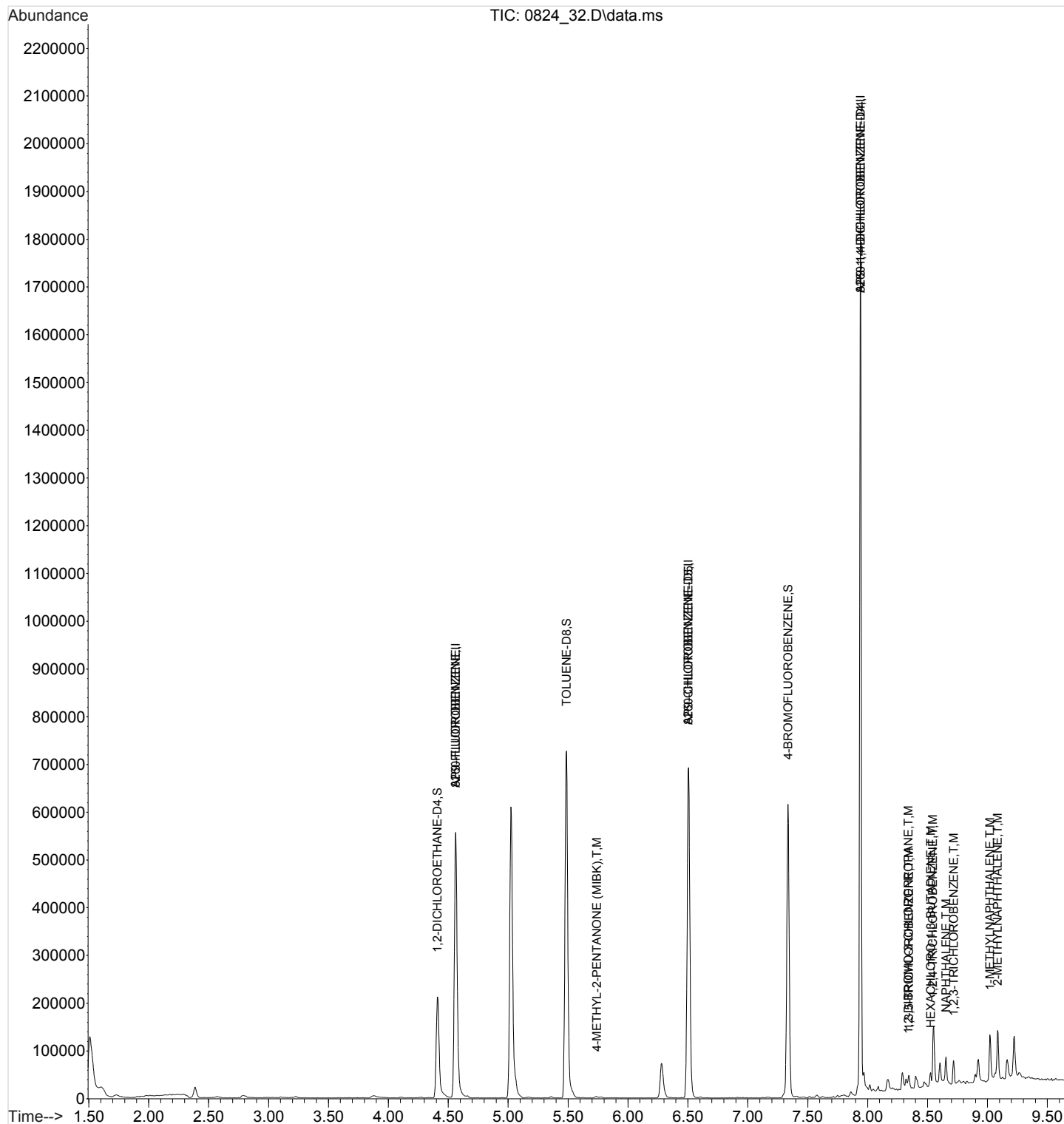
Quant Time: Aug 25 13:02:33 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:55:39 2020
 Response via : Initial Calibration

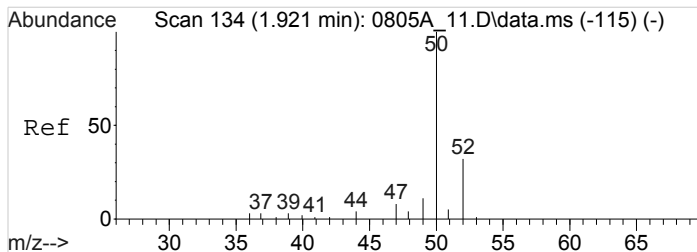
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	449320	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.503	82	180013	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.940	152	288281	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.561	96	449320	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.503	82	180013	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.940	152	288281	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.409	65	133611	14.7827576	ppb	0.00
Spiked Amount 16.000			Recovery	=	92.39%	
61) TOLUENE-D8	5.487	98	457228	16.5213191	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	103.26%	
80) 4-BROMOFLUOROBENZENE	7.335	95	156015	17.0194866	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	=	106.37%	
Target Compounds						
6) CHLOROMETHANE	1.934	50	176	Below Cal	Qvalue # 51	
60) 4-METHYL-2-PENTANONE (...)	5.741	43	2235	0.1837693	ppb #	84
101) 1,2-DIBROMO-3-CHLOROPR...	8.339	157	846	0.1359383	ppb #	67
102) 1,3,5-TRICHLOROBENZENE	8.345	180	3727	0.1614396	ppb	96
103) 1,2,4-TRICHLOROBENZENE	8.544	180	5810	0.2768928	ppb	95
104) HEXACHLORO-1,3-BUTADIENE	8.525	225	2483	0.2882878	ppb	89
105) NAPHTHALENE	8.654	128	24879	0.4187836	ppb	98
106) 1,2,3-TRICHLOROBENZENE	8.718	180	8832	0.4504766	ppb	95
107) 1-METHYLNAPHTHALENE	9.020	142	29550	1.1655525	ppb	97
108) 2-METHYLNAPHTHALENE	9.085	142	30702	1.2326849	ppb	98

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

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_32.D
Acq On : 24 Aug 2020 9:46 am
Operator : 859
Sample : BLANK 1X WG1531305
Misc : water
ALS Vial : 32 Sample Multiplier: 1
InstName : VOCMS35

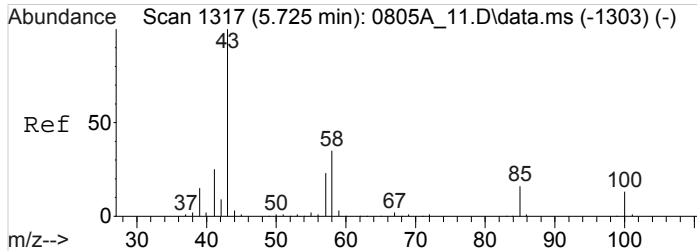
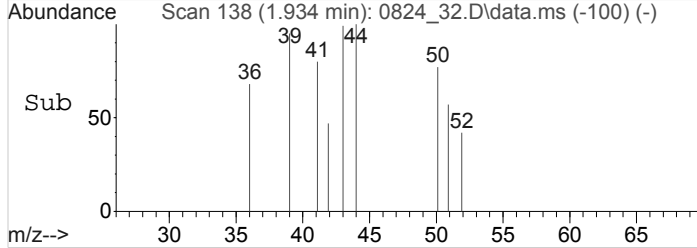
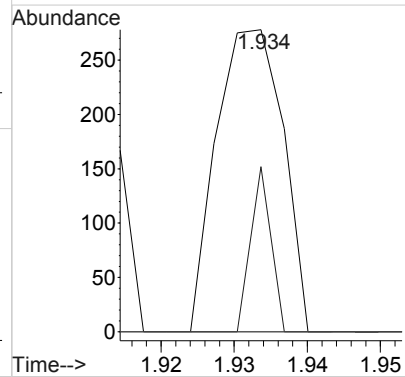
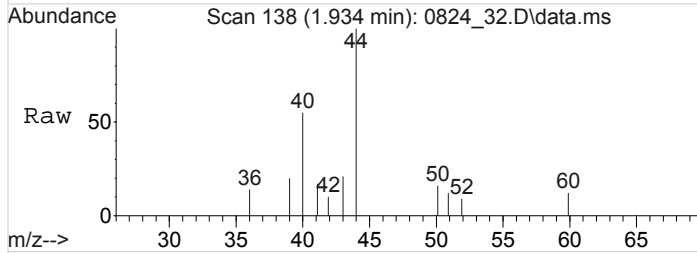
Quant Time: Aug 25 13:02:33 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:55:39 2020
Response via : Initial Calibration





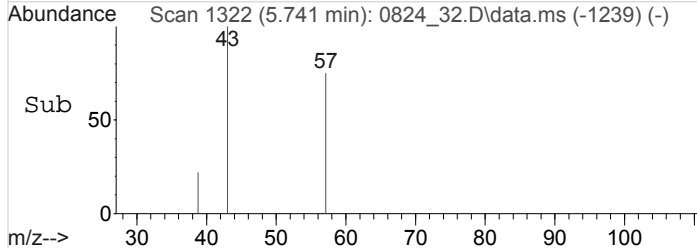
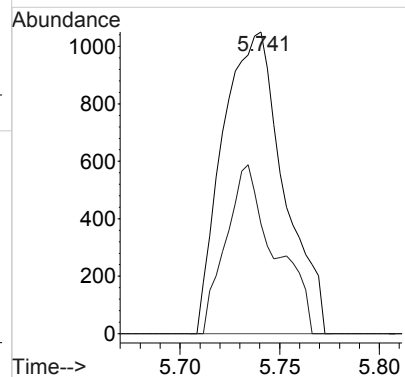
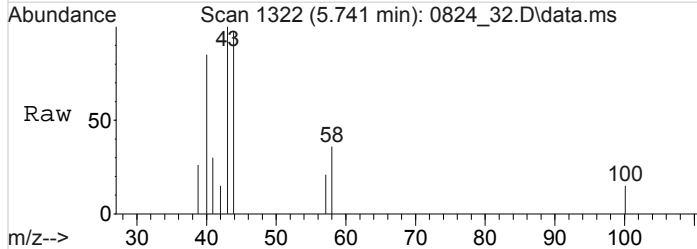
#6
 CHLOROMETHANE
 Concen: Below Cal
 RT: 1.934 min Scan# 138
 Delta R.T. 0.014 min
 Lab File: 0824_32.D
 Acq: 24 Aug 2020 9:46 am

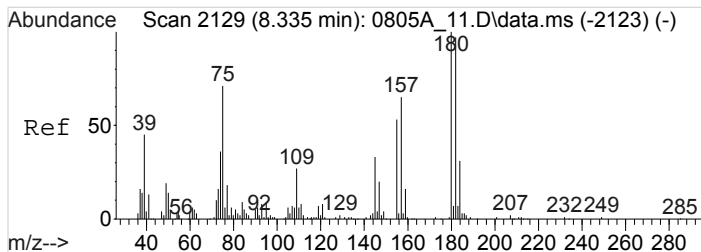
Tgt Ion	Resp	Lower	Upper
50	176		
52	0.0	24.8	37.2#
49	0.0	7.8	11.6#



#60
 4-METHYL-2-PENTANONE (MIBK)
 Concen: 0.1837693 ppb
 RT: 5.741 min Scan# 1322
 Delta R.T. 0.016 min
 Lab File: 0824_32.D
 Acq: 24 Aug 2020 9:46 am

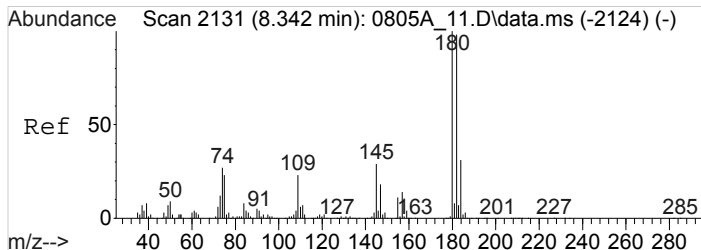
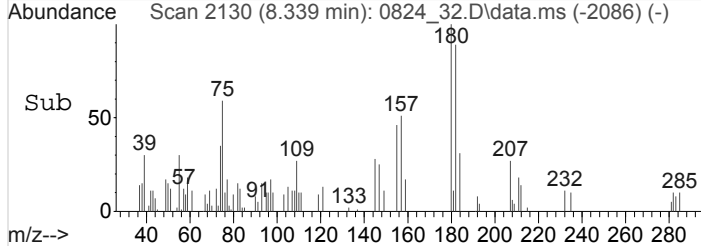
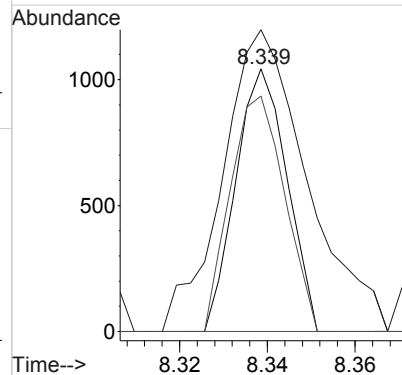
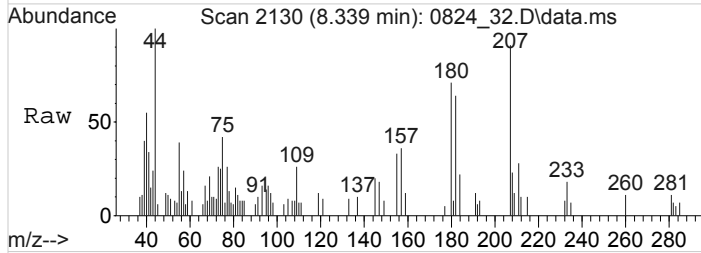
Tgt Ion	Resp	Lower	Upper
43	2235		
58	44.8	28.4	42.6#





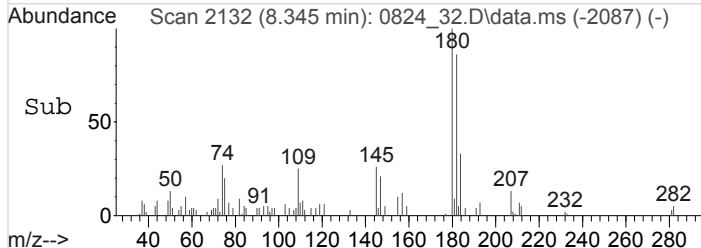
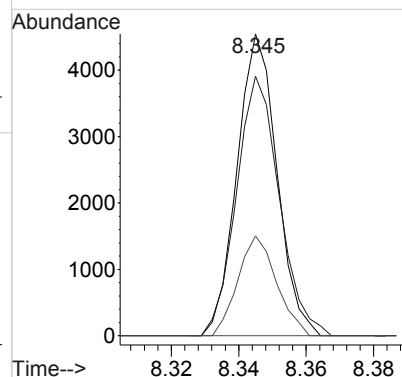
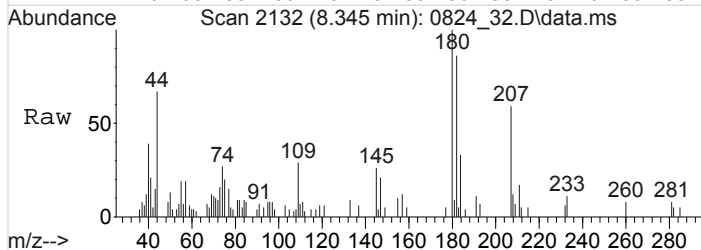
#101
 1,2-DIBROMO-3-CHLOROPROPANE
 Concen: 0.1359383 ppb
 RT: 8.339 min Scan# 2130
 Delta R.T. 0.003 min
 Lab File: 0824_32.D
 Acq: 24 Aug 2020 9:46 am

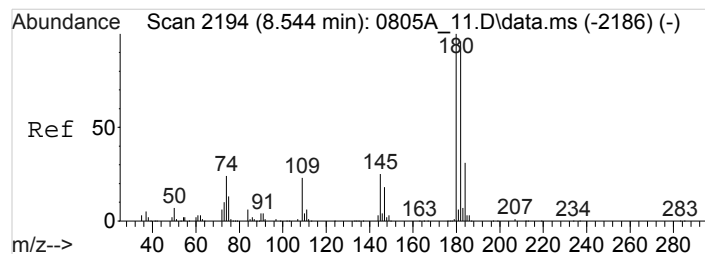
Tgt Ion:157 Resp: 846
 Ion Ratio Lower Upper
 157 100
 75 190.3 110.1 165.1#
 155 95.5 65.0 97.6



#102
 1,3,5-TRICHLOROBENZENE
 Concen: 0.1614396 ppb
 RT: 8.345 min Scan# 2132
 Delta R.T. 0.003 min
 Lab File: 0824_32.D
 Acq: 24 Aug 2020 9:46 am

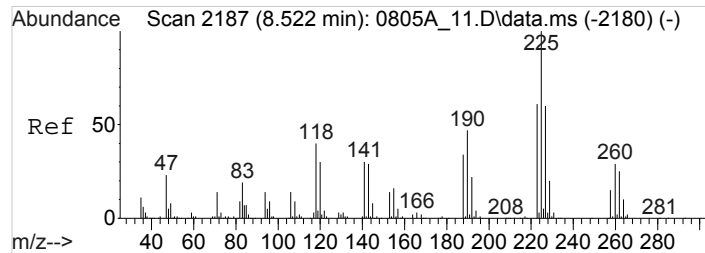
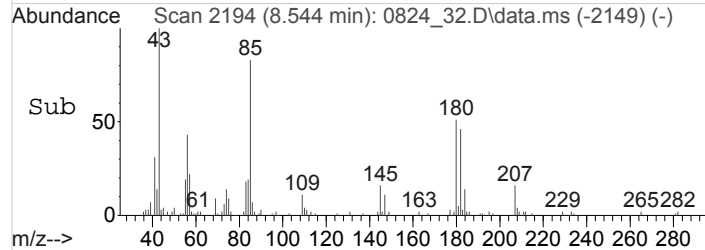
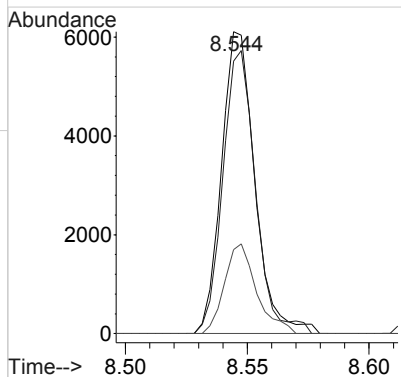
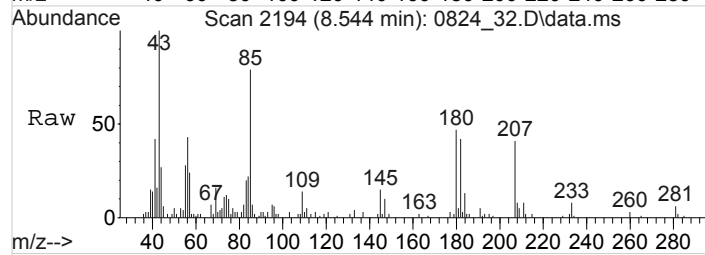
Tgt Ion:180 Resp: 3727
 Ion Ratio Lower Upper
 180 100
 182 92.3 77.2 115.8
 184 32.0 24.6 37.0





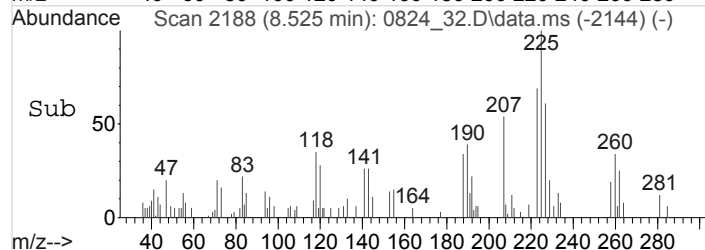
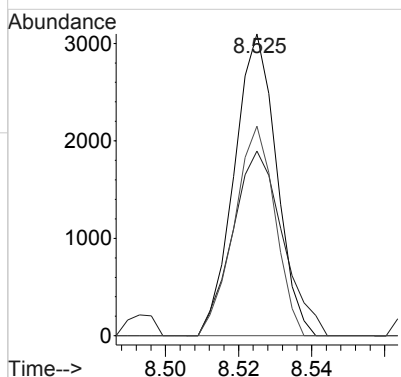
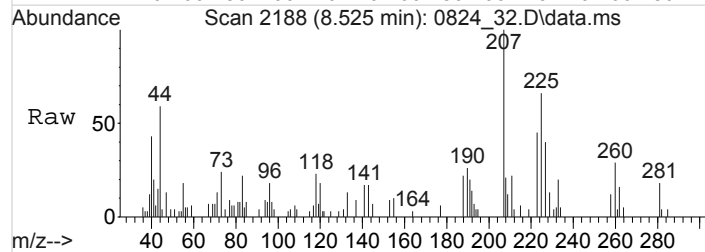
#103
 1,2,4-TRICHLOROBENZENE
 Concen: 0.2768928 ppb
 RT: 8.544 min Scan# 2194
 Delta R.T. -0.000 min
 Lab File: 0824_32.D
 Acq: 24 Aug 2020 9:46 am

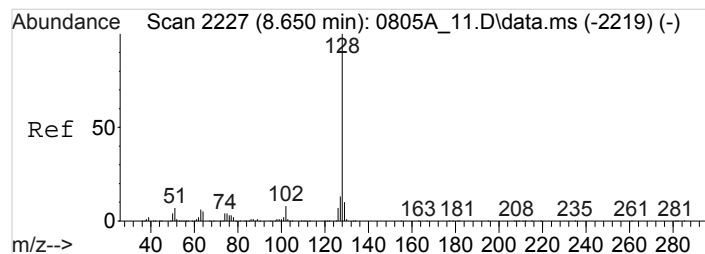
Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.9	77.2	115.8
184	28.6	25.0	37.6



#104
 HEXACHLORO-1,3-BUTADIENE
 Concen: 0.2882878 ppb
 RT: 8.525 min Scan# 2188
 Delta R.T. 0.003 min
 Lab File: 0824_32.D
 Acq: 24 Aug 2020 9:46 am

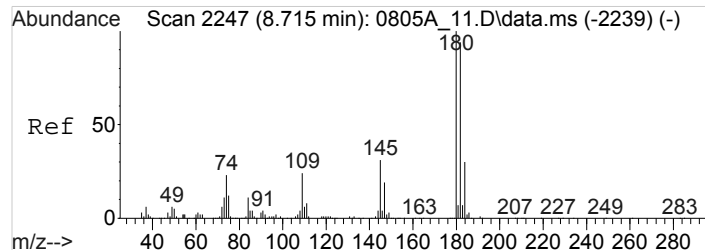
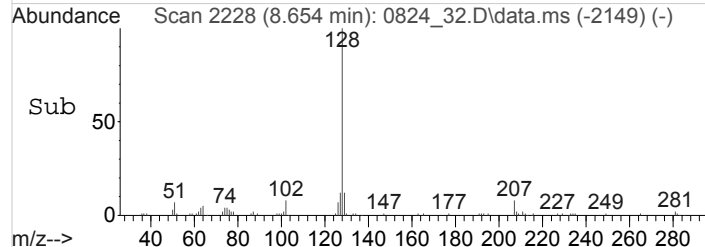
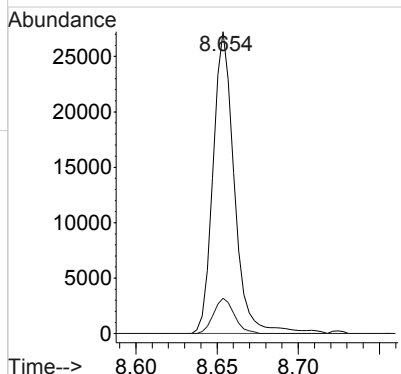
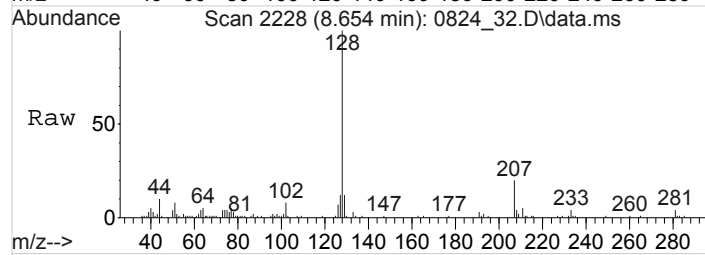
Tgt Ion	Ratio	Lower	Upper
225	100		
227	72.9	49.6	74.4
223	67.2	48.6	72.8





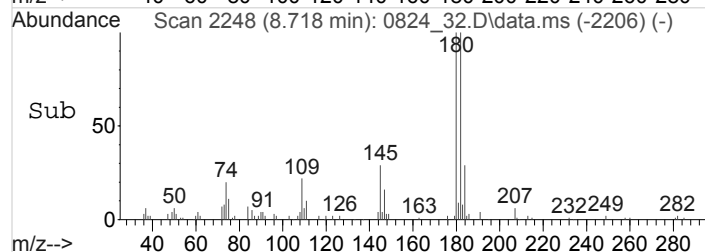
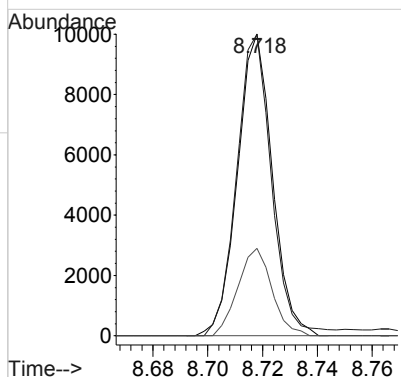
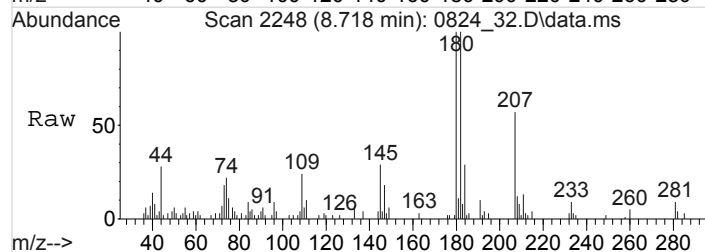
#105
 NAPHTHALENE
 Concen: 0.4187836 ppb
 RT: 8.654 min Scan# 2228
 Delta R.T. 0.003 min
 Lab File: 0824_32.D
 Acq: 24 Aug 2020 9:46 am

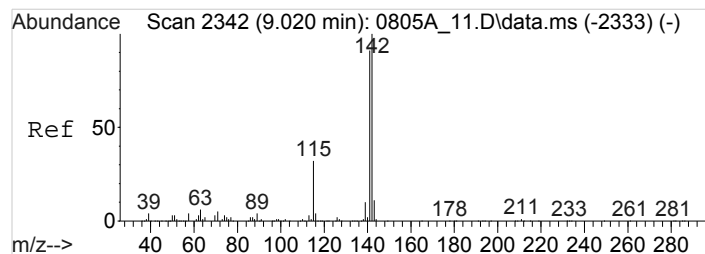
Tgt Ion:128 Resp: 24879
 Ion Ratio Lower Upper
 128 100
 129 11.3 8.4 12.6



#106
 1,2,3-TRICHLOROBENZENE
 Concen: 0.4504766 ppb
 RT: 8.718 min Scan# 2248
 Delta R.T. 0.003 min
 Lab File: 0824_32.D
 Acq: 24 Aug 2020 9:46 am

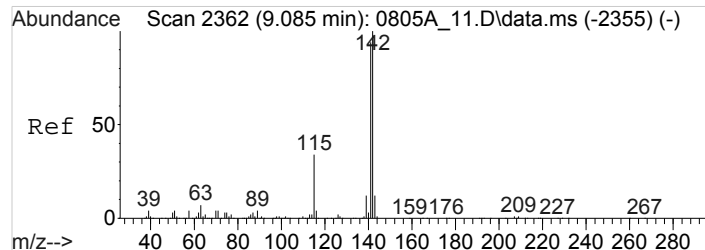
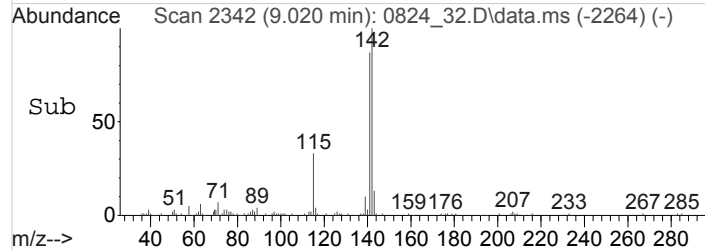
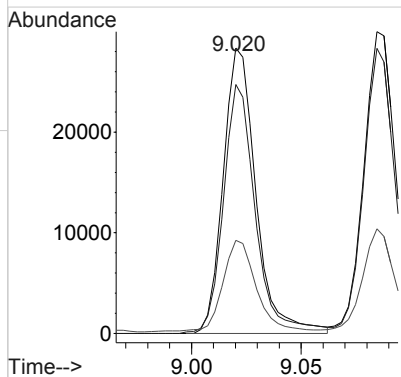
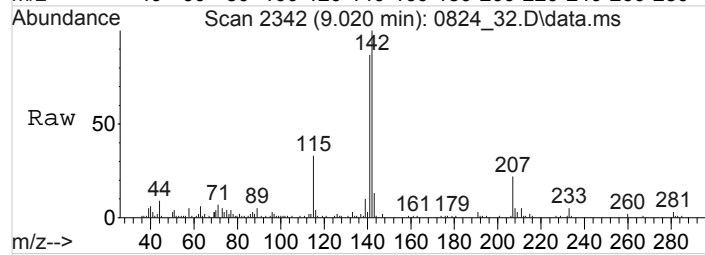
Tgt Ion:180 Resp: 8832
 Ion Ratio Lower Upper
 180 100
 182 99.8 74.6 112.0
 184 28.2 22.7 34.1





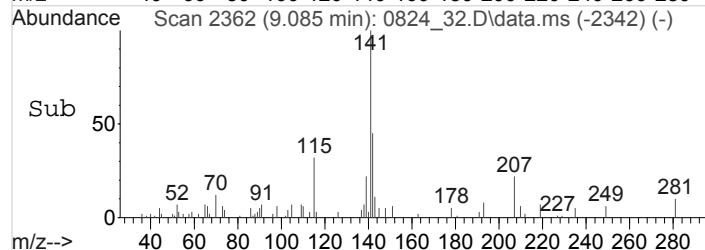
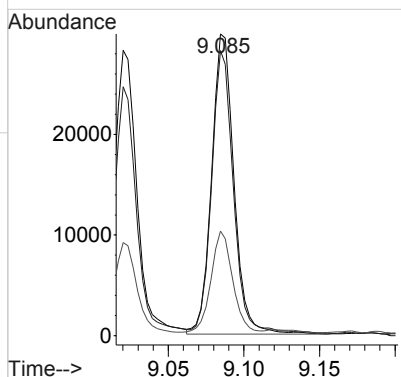
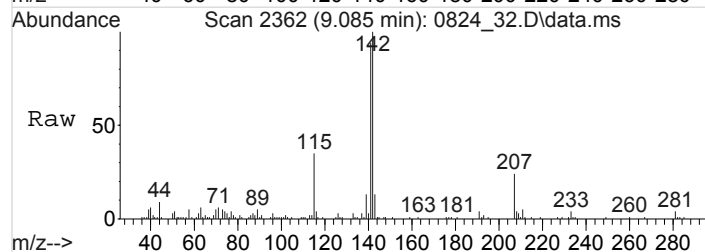
#107
1-METHYLNAPHTHALENE
Concen: 1.1655525 ppb
RT: 9.020 min Scan# 2342
Delta R.T. -0.000 min
Lab File: 0824_32.D
Acq: 24 Aug 2020 9:46 am

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.3	71.1	106.7
115	32.8	26.4	39.6



#108
2-METHYLNAPHTHALENE
Concen: 1.2326849 ppb
RT: 9.085 min Scan# 2362
Delta R.T. -0.000 min
Lab File: 0824_32.D
Acq: 24 Aug 2020 9:46 am

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.1	72.6	108.8
115	32.4	28.1	42.1



SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET



Lab Sample ID: R3563649-2
Client Sample ID: BLANK
Lab File ID: 0824_05
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: _____
Received Date/Time: _____
Preparation Date/Time: 08/24/20 06:44
Analysis Date/Time: 08/24/20 06:44
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	U		0.0113	0.0500
Acrolein	107-02-8	0	U		0.00254	0.0500
Acrylonitrile	107-13-1	0	U		0.000671	0.0100
Benzene	71-43-2	0	U		0.0000941	0.00100
Bromobenzene	108-86-1	0	U		0.000118	0.00100
Bromodichloromethane	75-27-4	0	U		0.000136	0.00100
Bromoform	75-25-2	0	U		0.000129	0.00100
Bromomethane	74-83-9	0	U		0.000605	0.00500
n-Butylbenzene	104-51-8	0	U		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	U		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	U		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	U		0.000128	0.00100
Chlorobenzene	108-90-7	0	U		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	U		0.000140	0.00100
Chloroethane	75-00-3	0	U		0.000192	0.00500
Chloroform	67-66-3	0	U		0.000111	0.00500
Chloromethane	74-87-3	0	U		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	U		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	U		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	U		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	U		0.000126	0.00100
Dibromomethane	74-95-3	0	U		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	U		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	U		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	U		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	U		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	U		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	U		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	U		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	U		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	U		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	U		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	U		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	U		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	U		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	U		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	U		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	U		0.000105	0.00100
Ethylbenzene	100-41-4	0	U		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	U		0.000337	0.00100
Isopropylbenzene	98-82-8	0	U		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	U		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	U		0.00119	0.0100

Lab Sample ID:	R3563649-2	SDG:	L1253445
Client Sample ID:	BLANK	Collected Date/Time:	
Lab File ID:	0824_05	Received Date/Time:	
Instrument ID:	VOCMS38	Preparation Date/Time:	08/24/20 06:44
Analytical Batch:	WG1531200	Analysis Date/Time:	08/24/20 06:44
Dilution Factor:	1	Prep Method:	8260B
Analytical Method:	8260B	Sample Vol Used:	5 mL
Matrix:	GW	Initial Wt/Vol:	
Total Solids (%):		Final Wt/Vol:	5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	U		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	U		0.000101	0.00100
Naphthalene	91-20-3	0	U		0.00100	0.00500
n-Propylbenzene	103-65-1	0	U		0.0000993	0.00100
Styrene	100-42-5	0	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	U		0.000133	0.00100
Tetrachloroethene	127-18-4	0	U		0.000300	0.00100
Toluene	108-88-3	0	U		0.000278	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	U		0.000180	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	U		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	U		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	U		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	U		0.000158	0.00100
Trichloroethene	79-01-6	0	U		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	U		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	U		0.000237	0.00250
1,2,3-Trimethylbenzene	526-73-8	0	U		0.000104	0.00100
1,2,4-Trimethylbenzene	95-63-6	0	U		0.000322	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	U		0.000104	0.00100
Vinyl chloride	75-01-4	0	U		0.000234	0.00100
Xylenes, Total	1330-20-7	0	U		0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_05.D
 Acq On : 24 Aug 2020 6:44 am
 Operator : 859
 Sample : BLANK 1x WG1531200
 Misc : water
 ALS Vial : 5 Sample Multiplier: 1
 InstName : VOCMS38

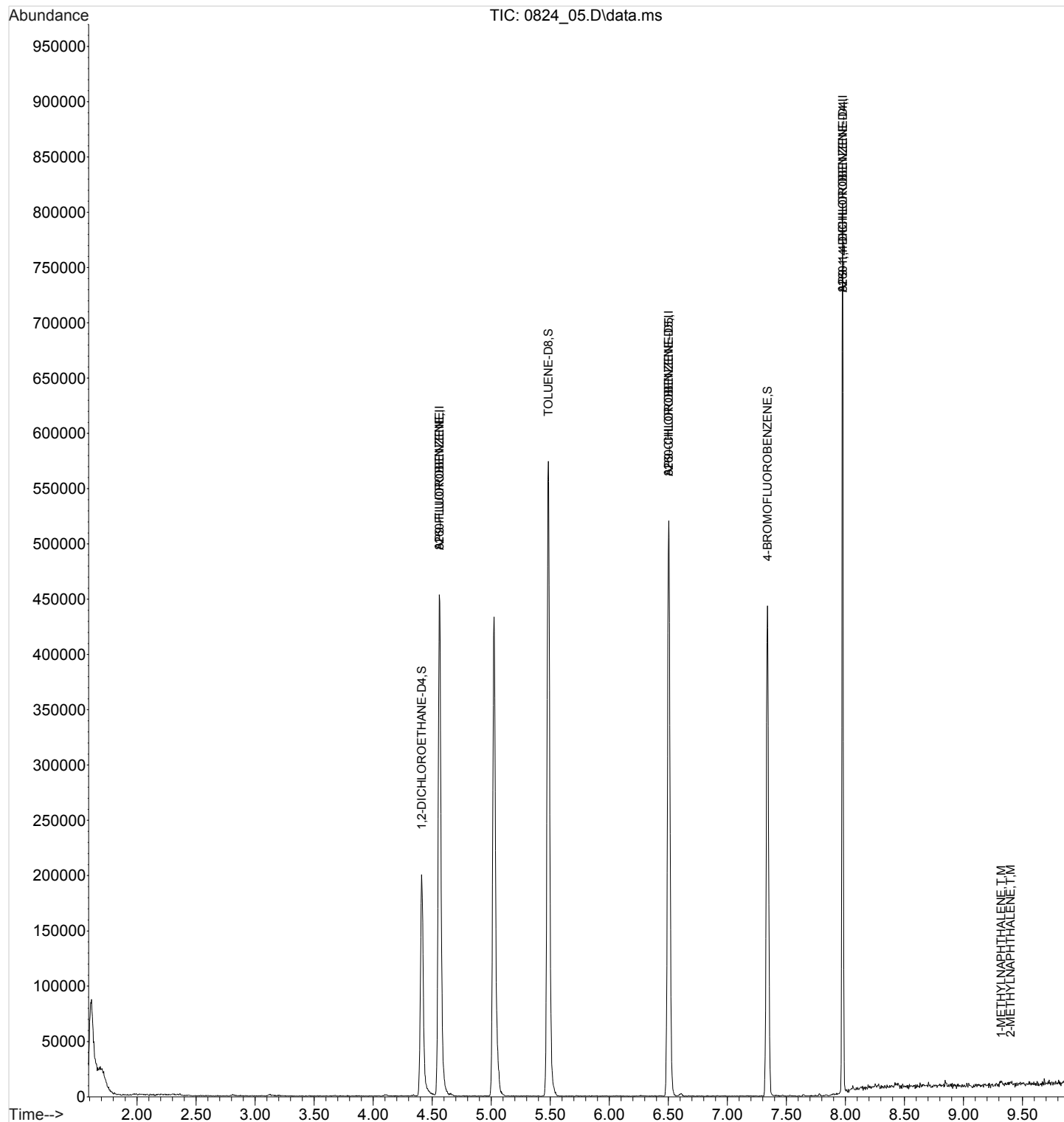
Quant Time: Aug 26 21:36:59 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

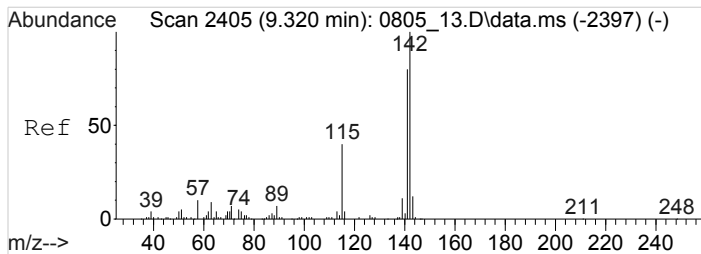
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.561	96	321963	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.503	82	139450	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.976	152	86767	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.561	96	321963	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.503	82	139450	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.976	152	86767	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.410	65	128694	16.2148029	ppb	0.00
Spiked Amount 16.000			Recovery	= 101.34%		
61) TOLUENE-D8	5.484	98	316254	17.9134785	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	= 111.96%		
80) 4-BROMOFLUOROBENZENE	7.339	95	116093	16.0245672	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	= 100.15%		
Target Compounds						Qvalue
107) 1-METHYLNAPHTHALENE	9.316	142	706	0.1328781	ppb #	66
108) 2-METHYLNAPHTHALENE	9.397	142	555	0.1240612	ppb #	83

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

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_05.D
Acq On : 24 Aug 2020 6:44 am
Operator : 859
Sample : BLANK 1x WG1531200
Misc : water
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS38

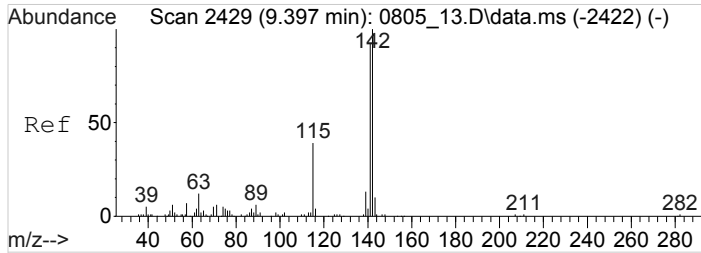
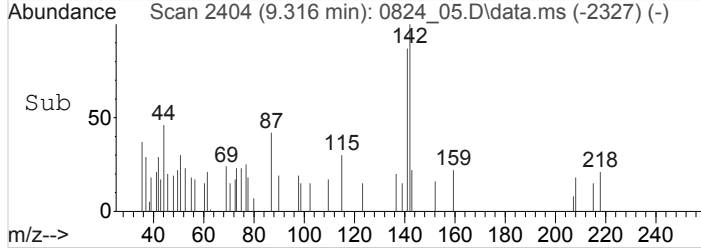
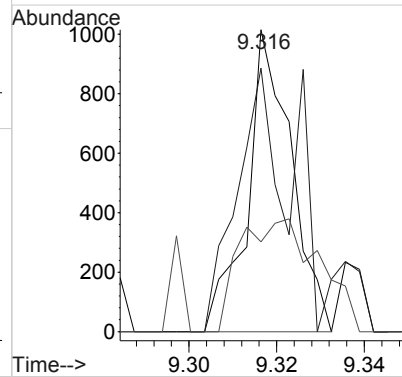
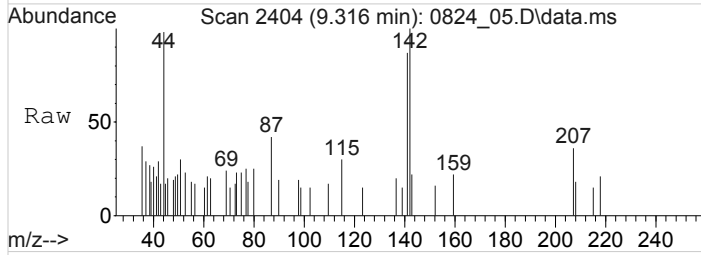
Quant Time: Aug 26 21:36:59 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration





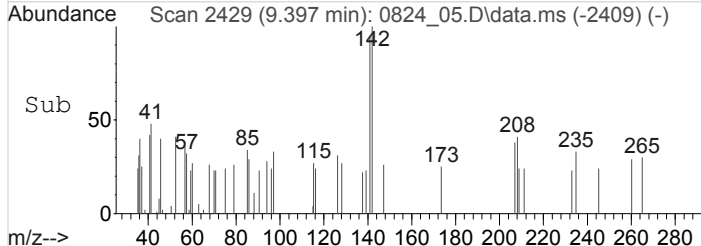
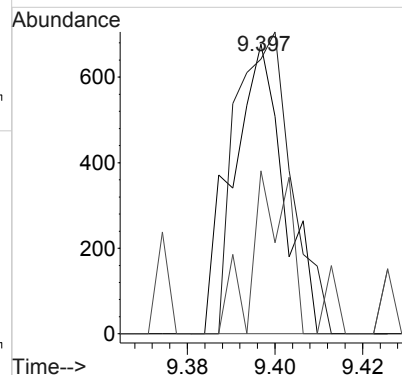
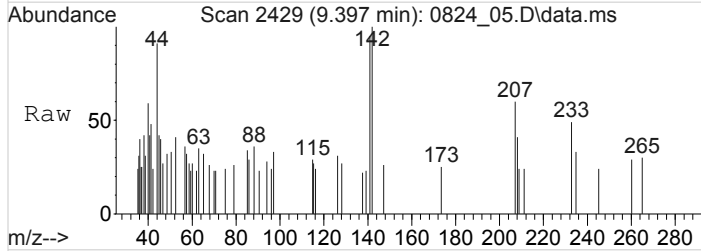
#107
1-METHYLNAPHTHALENE
Concen: 0.1328781 ppb
RT: 9.316 min Scan# 2404
Delta R.T. -0.003 min
Lab File: 0824_05.D
Acq: 24 Aug 2020 6:44 am

Tgt Ion:142 Resp: 706
Ion Ratio Lower Upper
142 100
141 111.0 67.9 101.9#
115 67.8 31.4 47.0#



#108
2-METHYLNAPHTHALENE
Concen: 0.1240612 ppb
RT: 9.397 min Scan# 2429
Delta R.T. 0.000 min
Lab File: 0824_05.D
Acq: 24 Aug 2020 6:44 am

Tgt Ion:142 Resp: 555
Ion Ratio Lower Upper
142 100
141 112.1 72.1 108.1#
115 39.8 32.7 49.1



SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET



Lab Sample ID: R3563563-1
Client Sample ID: LCS
Lab File ID: 0824_30
Instrument ID: VOCMS35
Analytical Batch: WG1531305
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: _____
Received Date/Time: _____
Preparation Date/Time: 08/24/20 09:06
Analysis Date/Time: 08/24/20 09:06
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result mg/l	Qualifier	MDL mg/l	RDL mg/l
Acetone	67-64-1	3.13	0.0174		0.0113	0.0500
Acrolein	107-02-8	2.96	0.0157		0.00254	0.0500
Acrylonitrile	107-13-1	3.58	0.0260		0.000671	0.0100
Benzene	71-43-2	4.34	0.00494		0.0000941	0.00100
Bromobenzene	108-86-1	7.41	0.00463		0.000118	0.00100
Bromodichloromethane	75-27-4	4.99	0.00500		0.000136	0.00100
Bromoform	75-25-2	6.99	0.00571		0.000129	0.00100
Bromomethane	74-83-9	2.23	0.00343		0.000605	0.00500
n-Butylbenzene	104-51-8	8.02	0.00410		0.000157	0.00100
sec-Butylbenzene	135-98-8	7.80	0.00454		0.000125	0.00100
tert-Butylbenzene	98-06-6	7.71	0.00486		0.000127	0.00100
Carbon tetrachloride	56-23-5	4.09	0.00514		0.000128	0.00100
Chlorobenzene	108-90-7	6.52	0.00514		0.000116	0.00100
Chlorodibromomethane	124-48-1	6	0.00556		0.000140	0.00100
Chloroethane	75-00-3	2.32	0.00374		0.000192	0.00500
Chloroform	67-66-3	3.99	0.00505		0.000111	0.00500
Chloromethane	74-87-3	1.92	0.00530		0.000960	0.00250
2-Chlorotoluene	95-49-8	7.52	0.00475		0.000106	0.00100
4-Chlorotoluene	106-43-4	7.62	0.00471		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	8.34	0.00343		0.000276	0.00500
1,2-Dibromoethane	106-93-4	6.18	0.00523		0.000126	0.00100
Dibromomethane	74-95-3	4.92	0.00497		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	8.09	0.00406		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	7.91	0.00482		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	7.95	0.00452		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	1.74	0.00554		0.000374	0.00500
1,1-Dichloroethane	75-34-3	3.55	0.00498		0.000100	0.00100
1,2-Dichloroethane	107-06-2	4.45	0.00456		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	2.75	0.00566		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	3.86	0.00542		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	3.20	0.00544		0.000149	0.00100
1,2-Dichloropropane	78-87-5	4.97	0.00488		0.000149	0.00100
1,1-Dichloropropene	563-58-6	4.19	0.00510		0.000142	0.00100
1,3-Dichloropropane	142-28-9	6.07	0.00505		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	5.37	0.00508		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	5.77	0.00475		0.000118	0.00100
2,2-Dichloropropane	594-20-7	3.92	0.00486		0.000161	0.00100
Di-isopropyl ether	108-20-3	3.44	0.00460		0.000105	0.00100
Ethylbenzene	100-41-4	6.51	0.00507		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	8.53	0.00408		0.000337	0.00100
Isopropylbenzene	98-82-8	7.12	0.00478		0.000105	0.00100
p-Isopropyltoluene	99-87-6	7.86	0.00482		0.000120	0.00100
2-Butanone (MEK)	78-93-3	4.16	0.0222		0.00119	0.0100

SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: R3563563-1
Client Sample ID: LCS
Lab File ID: 0824_30
Instrument ID: VOCMS35
Analytical Batch: WG1531305
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: _____
Received Date/Time: _____
Preparation Date/Time: 08/24/20 09:06
Analysis Date/Time: 08/24/20 09:06
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	3.10	0.00473		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	5.73	0.0219		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	3.24	0.00474		0.000101	0.00100
Naphthalene	91-20-3	8.65	0.00355		0.00100	0.00500
n-Propylbenzene	103-65-1	7.40	0.00466		0.0000993	0.00100
Styrene	100-42-5	6.95	0.00509		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	6.55	0.00560		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	7.44	0.00443		0.000133	0.00100
Tetrachloroethene	127-18-4	5.77	0.00604		0.000300	0.00100
Toluene	108-88-3	5.52	0.00495		0.000278	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	2.78	0.00483		0.000180	0.00100
1,2,3-Trichlorobenzene	87-61-6	8.71	0.00356		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	8.54	0.00366		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	4.13	0.00484		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	5.88	0.00501		0.000158	0.00100
Trichloroethene	79-01-6	4.66	0.00577		0.000190	0.00100
Trichlorofluoromethane	75-69-4	2.42	0.00477		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	7.54	0.00499		0.000237	0.00250
1,2,3-Trimethylbenzene	526-73-8	7.94	0.00436		0.000104	0.00100
1,2,4-Trimethylbenzene	95-63-6	7.75	0.00469		0.000322	0.00100
1,3,5-Trimethylbenzene	108-67-8	7.51	0.00480		0.000104	0.00100
Vinyl chloride	75-01-4	1.99	0.00409		0.000234	0.00100
Xylenes, Total	1330-20-7	6.91	0.0149		0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_30.D
 Acq On : 24 Aug 2020 9:06 am
 Operator : 859
 Sample : LCS 1X WG1531305
 Misc : water
 ALS Vial : 30 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 25 09:18:21 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:55:39 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.564	96	466821	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.503	82	192901	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.940	152	331397	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.564	96	466821	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.503	82	192865	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.940	152	331397	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.410	65	141980	15.1197907	ppb	0.00
Spiked Amount	16.000		Recovery	=	94.50%	
61) TOLUENE-D8	5.487	98	474266	15.9920185	ppb	0.00
Spiked Amount	16.000	Range 90 - 115	Recovery	=	99.95%	
80) 4-BROMOFLUOROBENZENE	7.336	95	176165	17.9336678	ppb	0.00
Spiked Amount	16.000	Range 80 - 120	Recovery	=	112.09%	
Target Compounds						
					Qvalue	
4) PROPENE	1.693	41	16345	4.8735674	ppb	95
5) DICHLORODIFLUOROMETHANE	1.738	85	50307	5.5392771	ppb	97
6) CHLOROMETHANE	1.921	50	57893	5.3036710	ppb	97
7) VINYL CHLORIDE	1.992	62	59267	4.0896393	ppb	99
8) 1,3-BUTADIENE	1.969	39	45609	3.6118841	ppb	94
9) BROMOMETHANE	2.233	94	55608	3.4294903	ppb	99
10) CHLOROETHANE	2.320	64	38144	3.7360297	ppb	98
11) VINYL BROMIDE	2.403	106	48042	7.3494367	ppb	99
12) TRICHLOROFLUOROMETHANE	2.419	101	61873	4.7688466	ppb	# 95
13) DICHLOROFLUOROMETHANE	2.452	67	81470	4.8280555	ppb	97
14) ETHYL ETHER	2.596	59	33719	5.1659753	ppb	96
15) ACROLEIN	2.956	56	10006	15.6824745	ppb	# 81
17) 1,1-DICHLOROETHENE	2.747	96	35367	5.6572901	ppb	88
18) 1,1,2-TRICHLOROTRIFLUO...	2.780	101	31354	4.8310122	ppb	# 89
19) ACETONE	3.127	43	49182	17.3860368	ppb	90
20) IODOMETHANE	2.850	142	406920	28.5137750	ppb	96
21) CARBON DISULFIDE	2.789	76	107161	5.3563752	ppb	96
22) ALLYL CHLORIDE	3.037	76	110277	25.0218127	ppb	91
23) METHYLENE CHLORIDE	3.101	84	39639	4.7325423	ppb	95
24) METHYL ACETATE	3.185	43	146980	21.1422228	ppb	# 92
25) ACRYLONITRILE	3.583	53	96206	26.0342736	ppb	95
26) n-HEXANE	3.230	56	23213	4.5731960	ppb	# 93
27) TRANS-1,2-DICHLOROETHENE	3.198	96	42271	5.4367673	ppb	95
28) METHYL TERT-BUTYL ETHER	3.243	73	106580	4.7402686	ppb	92
29) TERT-BUTYL ALCOHOL	3.278	59	10107	19.2399755	ppb	# 100
30) 1,1-DICHLOROETHANE	3.554	63	74682	4.9798134	ppb	100
31) VINYL ACETATE	3.661	43	389801	19.0130024	ppb	97
32) DI-ISOPROPYL ETHER	3.442	45	125607	4.5961437	ppb	98
33) ETHYL TERT-BUTYL ETHER	3.648	59	112781	4.4671840	ppb	97
34) 2,2-DICHLOROPROPANE	3.921	77	42778	4.8589385	ppb	100
35) CIS-1,2-DICHLOROETHENE	3.857	96	48732	5.4197906	ppb	92
36) 2-BUTANONE (MEK)	4.159	43	124999	22.2269910	ppb	97
37) BROMOCHLOROMETHANE	3.972	130	35960	5.8035500	ppb	# 74
38) TETRAHYDROFURAN	4.101	42	16565	4.9289252	ppb	95
39) CHLOROFORM	3.992	83	77615	5.0515996	ppb	100
40) CYCLOHEXANE	3.985	84	40630	4.2067044	ppb	95
41) 1,1,1-TRICHLOROETHANE	4.130	97	60135	4.8409774	ppb	95
42) CARBON TETRACHLORIDE	4.095	117	59881	5.1403102	ppb	97

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_30.D
 Acq On : 24 Aug 2020 9:06 am
 Operator : 859
 Sample : LCS 1X WG1531305
 Misc : water
 ALS Vial : 30 Sample Multiplier: 1
 InstName : VOCMS35

Quant Time: Aug 25 09:18:21 2020
 Quant Method : C:\msdchem\1\methods\V835H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 12:55:39 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) 1,1-DICHLOROPROPENE	4.194	75	51362	5.0955958	ppb		98
44) 2,2,4-TRIMETHYLPENTANE	4.233	57	73115	4.0505498	ppb		93
45) n-Heptane	4.271	71	19077	4.5759896	ppb	#	81
46) BENZENE	4.336	78	159073	4.9451622	ppb		98
47) TERT-AMYL METHYL ETHER	4.365	73	107338	4.5498616	ppb		96
49) 1,2-DICHLOROETHANE	4.448	62	57240	4.5654953	ppb		97
50) T-AMYL ALCOHOL	4.455	59	21253	24.9583000	ppb	#	79
51) TRICHLOROETHENE	4.660	132	51433	5.7655742	ppb		94
52) METHYL CYCLOHEXANE	4.664	83	41874	4.0907776	ppb		95
53) TERT-AMYL ETHYL ETHER	4.747	59	85512	4.6450661	ppb		95
54) 1,2-DICHLOROPROPANE	4.972	62	27470	4.8769867	ppb		98
55) DIBROMOMETHANE	4.918	93	31539	4.9698144	ppb	#	85
56) BROMODICHLOROMETHANE	4.995	83	56249	5.0006996	ppb		98
57) 2-CHLOROETHYL VINYL ETHER	5.304	63	154606	23.9530195	ppb		100
58) CIS-1,3-DICHLOROPROPENE	5.368	75	63935	5.0827507	ppb		96
60) 4-METHYL-2-PENTANONE (...)	5.731	43	285209	21.8840626	ppb		99
62) TOLUENE	5.519	91	175727	4.9482053	ppb		95
63) TRANS-1,3-DICHLOROPROPENE	5.767	75	60533	4.7540605	ppb		97
64) 1,1,2-TRICHLOROETHANE	5.876	97	42077	5.0116813	ppb		97
65) TETRACHLOROETHENE	5.773	164	44245	6.0354319	ppb		94
66) 1,3-DICHLOROPROPANE	6.066	76	67513	5.0464489	ppb		99
67) 2-HEXANONE	6.268	58	109635	23.6347114	ppb		96
68) CHLORODIBROMOMETHANE	6.004	129	52043	5.5588101	ppb		97
69) 1,2-DIBROMOETHANE	6.181	107	47967	5.2285158	ppb		98
70) CHLOROBENZENE	6.519	112	127617	5.1427928	ppb		95
71) 1,1,1,2-TETRACHLOROETHANE	6.551	133	46117	5.6034605	ppb	#	98
72) ETHYLBENZENE	6.509	106	63408	5.0747791	ppb		88
73) M&P-XYLENE	6.603	106	152618	9.9317822	ppb		95
74) O-XYLENE	6.911	106	72090	4.9558166	ppb		96
77) STYRENE	6.947	104	121637	5.0877131	ppb		96
78) BROMOFORM	6.992	173	42325	5.7082974	ppb		96
79) ISOPROPYLBENZENE	7.123	105	177695	4.7813653	ppb		96
82) BROMOBENZENE	7.413	77	78757	4.6313639	ppb	#	81
83) 1,1,2,2-TETRACHLOROETHANE	7.442	83	59278	4.4291144	ppb		99
84) 1,2,3-TRICHLOROPROPANE	7.545	110	19452	4.9893147	ppb		86
85) TRANS-1,4-DICHLORO-2-B...	7.557	53	9251	3.0772525	ppb		96
86) N-PROPYLBENZENE	7.400	91	203803	4.6574340	ppb		97
87) 4-ETHYLTOLUENE	7.464	105	181702	4.9169529	ppb		97
88) 2-CHLOROTOLUENE	7.519	91	140232	4.7470374	ppb		93
89) 4-CHLOROTOLUENE	7.619	91	127522	4.7088669	ppb		95
90) 1,3,5-TRIMETHYLBENZENE	7.512	105	149570	4.8025126	ppb		94
91) TERT-BUTYLBENZENE	7.712	119	131821	4.8626645	ppb		94
92) 1,2,4-TRIMETHYLBENZENE	7.747	105	161211	4.6940558	ppb		97
93) SEC-BUTYLBENZENE	7.802	105	211516	4.5369701	ppb		94
94) 1,3-DICHLOROBENZENE	7.914	146	146799	4.8202891	ppb		99
95) P-ISOPROPYLTOLUENE	7.860	119	213451	4.8234516	ppb		97
96) DICYCLOPENTADIENE	7.869	66	244962	4.6136438	ppb	#	93
97) 1,4-DICHLOROBENZENE	7.947	146	157298	4.5184621	ppb		90
98) 1,2,3-TRIMETHYLBENZENE	7.943	105	195248	4.3584671	ppb		96
99) 1,2-DICHLOROBENZENE	8.091	146	148862	4.0586634	ppb		99
100) N-BUTYLBENZENE	8.017	91	199132	4.1006640	ppb		97
101) 1,2-DIBROMO-3-CHLOROPR...	8.339	157	24549	3.4314114	ppb		94
102) 1,3,5-TRICHLOROBENZENE	8.345	180	100934	3.8032570	ppb		98
103) 1,2,4-TRICHLOROBENZENE	8.545	180	88326	3.6617739	ppb		100
104) HEXACHLORO-1,3-BUTADIENE	8.525	225	40406	4.0809650	ppb		94

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_30.D
Acq On : 24 Aug 2020 9:06 am
Operator : 859
Sample : LCS 1X WG1531305
Misc : water
ALS Vial : 30 Sample Multiplier: 1
InstName : VOCMS35

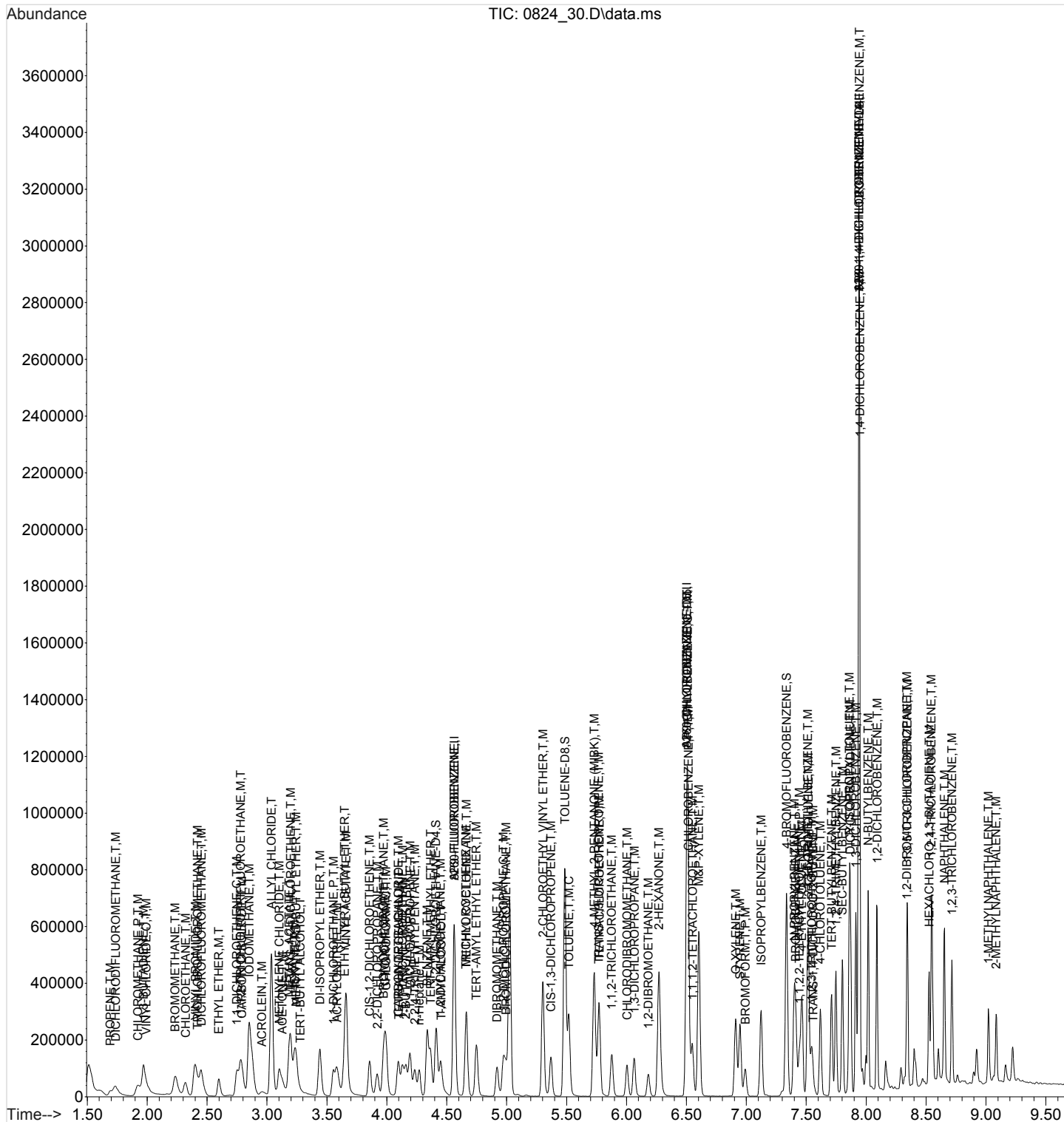
Quant Time: Aug 25 09:18:21 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:55:39 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
105) NAPHTHALENE	8.654	128	242260	3.5473656	ppb		99
106) 1,2,3-TRICHLOROBENZENE	8.715	180	80166	3.5568930	ppb		99
107) 1-METHYLNAPHTHALENE	9.020	142	78593	2.6966568	ppb		98
108) 2-METHYLNAPHTHALENE	9.085	142	69509	2.4276937	ppb		98

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

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Data Path : C:\msdchem\1\data\082420\  
Data File : 0824_30.D  
Acq On    : 24 Aug 2020    9:06 am  
Operator  : 859  
Sample    : LCS 1X WG1531305  
Misc      : water  
ALS Vial  : 30    Sample Multiplier: 1  
InstName  : VOCMS35
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Quant Time: Aug 25 09:18:21 2020
Quant Method : C:\msdchem\1\methods\V835H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 12:55:39 2020
Response via : Initial Calibration



SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET



Lab Sample ID: R3563649-1
Client Sample ID: LCS
Lab File ID: 0824_03
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: _____
Received Date/Time: _____
Preparation Date/Time: 08/24/20 06:05
Analysis Date/Time: 08/24/20 06:05
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result mg/l	Qualifier	MDL mg/l	RDL mg/l
Acetone	67-64-1	3.14	0.0221		0.0113	0.0500
Acrolein	107-02-8	2.98	0.00911		0.00254	0.0500
Acrylonitrile	107-13-1	3.59	0.0218		0.000671	0.0100
Benzene	71-43-2	4.34	0.00507		0.0000941	0.00100
Bromobenzene	108-86-1	7.42	0.00564		0.000118	0.00100
Bromodichloromethane	75-27-4	4.99	0.00526		0.000136	0.00100
Bromoform	75-25-2	6.99	0.00580		0.000129	0.00100
Bromomethane	74-83-9	2.30	0.00538		0.000605	0.00500
n-Butylbenzene	104-51-8	8.06	0.00481		0.000157	0.00100
sec-Butylbenzene	135-98-8	7.83	0.00529		0.000125	0.00100
tert-Butylbenzene	98-06-6	7.74	0.00556		0.000127	0.00100
Carbon tetrachloride	56-23-5	4.10	0.00449		0.000128	0.00100
Chlorobenzene	108-90-7	6.52	0.00572		0.000116	0.00100
Chlorodibromomethane	124-48-1	6	0.00560		0.000140	0.00100
Chloroethane	75-00-3	2.37	0.00551		0.000192	0.00500
Chloroform	67-66-3	4	0.00524		0.000111	0.00500
Chloromethane	74-87-3	1.98	0.00563		0.000960	0.00250
2-Chlorotoluene	95-49-8	7.54	0.00564		0.000106	0.00100
4-Chlorotoluene	106-43-4	7.64	0.00573		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	8.44	0.00519		0.000276	0.00500
1,2-Dibromoethane	106-93-4	6.18	0.00553		0.000126	0.00100
Dibromomethane	74-95-3	4.91	0.00566		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	8.14	0.00562		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	7.95	0.00567		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	7.98	0.00566		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	1.80	0.00503		0.000374	0.00500
1,1-Dichloroethane	75-34-3	3.56	0.00526		0.000100	0.00100
1,2-Dichloroethane	107-06-2	4.45	0.00532		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	2.78	0.00471		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	3.86	0.00537		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	3.22	0.00495		0.000149	0.00100
1,2-Dichloropropane	78-87-5	4.97	0.00523		0.000149	0.00100
1,1-Dichloropropene	563-58-6	4.19	0.00461		0.000142	0.00100
1,3-Dichloropropane	142-28-9	6.06	0.00561		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	5.37	0.00489		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	5.76	0.00545		0.000118	0.00100
2,2-Dichloropropane	594-20-7	3.92	0.00439		0.000161	0.00100
Di-isopropyl ether	108-20-3	3.45	0.00499		0.000105	0.00100
Ethylbenzene	100-41-4	6.51	0.00560		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	8.68	0.00440		0.000337	0.00100
Isopropylbenzene	98-82-8	7.13	0.00543		0.000105	0.00100
p-Isopropyltoluene	99-87-6	7.90	0.00525		0.000120	0.00100
2-Butanone (MEK)	78-93-3	4.16	0.0234		0.00119	0.0100

SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: R3563649-1
Client Sample ID: LCS
Lab File ID: 0824_03
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: _____
Received Date/Time: _____
Preparation Date/Time: 08/24/20 06:05
Analysis Date/Time: 08/24/20 06:05
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	3.12	0.00496		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	5.73	0.0269		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	3.26	0.00546		0.000101	0.00100
Naphthalene	91-20-3	8.85	0.00480		0.00100	0.00500
n-Propylbenzene	103-65-1	7.41	0.00544		0.0000993	0.00100
Styrene	100-42-5	6.95	0.00549		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	6.55	0.00560		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	7.45	0.00566		0.000133	0.00100
Tetrachloroethene	127-18-4	5.77	0.00571		0.000300	0.00100
Toluene	108-88-3	5.52	0.00552		0.000278	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	2.81	0.00465		0.000180	0.00100
1,2,3-Trichlorobenzene	87-61-6	8.93	0.00469		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	8.71	0.00521		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	4.14	0.00516		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	5.88	0.00570		0.000158	0.00100
Trichloroethene	79-01-6	4.66	0.00527		0.000190	0.00100
Trichlorofluoromethane	75-69-4	2.47	0.00493		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	7.56	0.00568		0.000237	0.00250
1,2,3-Trimethylbenzene	526-73-8	7.98	0.00540		0.000104	0.00100
1,2,4-Trimethylbenzene	95-63-6	7.78	0.00550		0.000322	0.00100
1,3,5-Trimethylbenzene	108-67-8	7.53	0.00564		0.000104	0.00100
Vinyl chloride	75-01-4	2.05	0.00549		0.000234	0.00100
Xylenes, Total	1330-20-7	6.91	0.0166		0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_03.D
 Acq On : 24 Aug 2020 6:05 am
 Operator : 859
 Sample : LCS 1x WG1531200
 Misc : water
 ALS Vial : 3 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 26 21:36:31 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

Compound			R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards								
1)	8260-FLUOROBENZENE		4.561	96	319463	16.0000000	ppb	0.00
59)	8260-CHLOROBENZENE-D5		6.503	82	145036	16.0000000	ppb	0.00
81)	8260-1,4-DICHLOROBENZENE...		7.976	152	90000	16.0000000	ppb	0.00
109)	AP9-FLUOROBENZENE		4.561	96	319463	16.0000000	ppb	0.00
123)	AP9-CHLOROBENZENE-D5		6.503	82	145036	16.0000000	ppb	0.00
127)	AP9-1,4-DICHLOROBENZENE...		7.976	152	90000	16.0000000	ppb	0.00
System Monitoring Compounds								
48)	1,2-DICHLOROETHANE-D4		4.413	65	130449	16.5645457	ppb	0.00
	Spiked Amount	16.000			Recovery	=	103.53%	
61)	TOLUENE-D8		5.481	98	319132	17.3802876	ppb	0.00
	Spiked Amount	16.000	Range	90 - 115	Recovery	=	108.63%	
80)	4-BROMOFLUOROBENZENE		7.339	95	117774	15.6304832	ppb	0.00
	Spiked Amount	16.000	Range	80 - 120	Recovery	=	97.69%	
Target Compounds							Qvalue	
4)	PROPENE		1.764	41	14402	4.5977915	ppb #	57
5)	DICHLORODIFLUOROMETHANE		1.796	85	34754	5.0258394	ppb #	89
6)	CHLOROMETHANE		1.982	50	48961	5.6302721	ppb #	85
7)	VINYL CHLORIDE		2.050	62	37845	5.4887064	ppb #	99
8)	1,3-BUTADIENE		2.037	39	27124	4.0958373	ppb	94
9)	BROMOMETHANE		2.301	94	22949	5.3792397	ppb	98
10)	CHLOROETHANE		2.371	64	22538	5.5143052	ppb	95
11)	VINYL BROMIDE		2.455	106	23782	6.7061186	ppb	95
12)	TRICHLOROFLUOROMETHANE		2.474	101	40621m	4.9333592	ppb	
13)	DICHLOROFLUOROMETHANE		2.500	67	59924	5.2174010	ppb	96
14)	ETHYL ETHER		2.632	59	29250	5.0370562	ppb	96
15)	ACROLEIN		2.979	56	828	9.1060241	ppb #	1
17)	1,1-DICHLOROETHENE		2.776	96	17675	4.7126223	ppb	98
18)	1,1,2-TRICHLOROTRIFLUO...		2.805	101	19037m	4.6463575	ppb	
19)	ACETONE		3.143	43	40313	22.0510379	ppb #	83
20)	IODOMETHANE		2.876	142	194988	25.8450324	ppb	98
21)	CARBON DISULFIDE		2.815	76	61548	4.9278877	ppb	98
22)	ALLYL CHLORIDE		3.059	76	63816	24.3319157	ppb	98
23)	METHYLENE CHLORIDE		3.117	84	25007	4.9584451	ppb	88
24)	METHYL ACETATE		3.201	43	150542	23.0919559	ppb #	95
25)	ACRYLONITRILE		3.590	53	87971	21.7536372	ppb #	83
26)	n-HEXANE		3.246	56	18640	3.6437869	ppb #	98
27)	TRANS-1,2-DICHLOROETHENE		3.217	96	21817	4.9516058	ppb	99
28)	METHYL TERT-BUTYL ETHER		3.259	73	89340	5.4611000	ppb #	77
30)	1,1-DICHLOROETHANE		3.564	63	57687	5.2559499	ppb	96
31)	VINYL ACETATE		3.670	43	357186	20.1305900	ppb	99
32)	DI-ISOPROPYL ETHER		3.452	45	125973	4.9878188	ppb	92
33)	ETHYL TERT-BUTYL ETHER		3.661	59	114163	5.2250072	ppb	99
34)	2,2-DICHLOROPROPANE		3.924	77	28110	4.3878986	ppb	100
35)	CIS-1,2-DICHLOROETHENE		3.863	96	26927	5.3684797	ppb	97
36)	2-BUTANONE (MEK)		4.159	43	135214	23.4262420	ppb	97
37)	BROMOCHLOROMETHANE		3.976	130	17310	5.5028520	ppb	99
38)	TETRAHYDROFURAN		4.098	42	16643	4.2166831	ppb #	97
39)	CHLOROFORM		4.001	83	52123	5.2385252	ppb	100
40)	CYCLOHEXANE		3.992	84	27013	4.1609432	ppb	93
41)	1,1,1-TRICHLOROETHANE		4.137	97	43969	5.1623684	ppb	99
42)	CARBON TETRACHLORIDE		4.098	117	33016	4.4947995	ppb	92
43)	1,1-DICHLOROPROPENE		4.191	75	31547	4.6118794	ppb	95

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_03.D
 Acq On : 24 Aug 2020 6:05 am
 Operator : 859
 Sample : LCS 1x WG1531200
 Misc : water
 ALS Vial : 3 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 26 21:36:31 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
44) 2,2,4-TRIMETHYLPENTANE	4.236	57	70587	3.5335771	ppb		94
45) n-Heptane	4.275	71	11374	3.0537011	ppb	#	97
46) BENZENE	4.339	78	102159	5.0729291	ppb		99
47) TERT-AMYL METHYL ETHER	4.365	73	87619	5.3252859	ppb		99
49) 1,2-DICHLOROETHANE	4.448	62	51048	5.3183912	ppb		98
50) T-AMYL ALCOHOL	4.452	59	20316	16.2200027	ppb	#	42
51) TRICHLOROETHENE	4.661	132	25179	5.2660020	ppb		97
52) METHYL CYCLOHEXANE	4.667	83	30261	4.0161276	ppb		97
53) TERT-AMYL ETHYL ETHER	4.747	59	83414	5.0102799	ppb		98
54) 1,2-DICHLOROPROPANE	4.973	62	23577	5.2258963	ppb	#	91
55) DIBROMOMETHANE	4.911	93	19500	5.6621655	ppb		94
56) BROMODICHLOROMETHANE	4.992	83	41998	5.2628487	ppb		100
57) 2-CHLOROETHYL VINYL ETHER	5.300	63	143382	25.2175713	ppb		99
58) CIS-1,3-DICHLOROPROPENE	5.368	75	44626	4.8901626	ppb	#	99
60) 4-METHYL-2-PENTANONE (...)	5.728	43	331040	26.8851190	ppb		99
62) TOLUENE	5.516	91	109792	5.5206061	ppb		98
63) TRANS-1,3-DICHLOROPROPENE	5.763	75	45888	5.4471080	ppb		99
64) 1,1,2-TRICHLOROETHANE	5.876	97	25246	5.6996161	ppb		98
65) TETRACHLOROETHENE	5.767	164	21850	5.7108017	ppb		96
66) 1,3-DICHLOROPROPANE	6.059	76	46581	5.6057660	ppb		98
67) 2-HEXANONE	6.268	58	120410	25.4291039	ppb		98
68) CHLORODIBROMOMETHANE	5.998	129	29273	5.6009193	ppb		95
69) 1,2-DIBROMOETHANE	6.175	107	28384	5.5344768	ppb		94
70) CHLOROBENZENE	6.516	112	68643	5.7170676	ppb		97
71) 1,1,1,2-TETRACHLOROETHANE	6.548	133	25275	5.5980851	ppb	#	96
72) ETHYLBENZENE	6.509	106	37948	5.5963000	ppb		95
73) M&P-XYLENE	6.606	106	91559	10.9908668	ppb		100
74) O-XYLENE	6.915	106	45554	5.6389368	ppb		99
77) STYRENE	6.947	104	75070	5.4924964	ppb		100
78) BROMOFORM	6.985	173	24839	5.7971701	ppb		99
79) ISOPROPYLBENZENE	7.127	105	117589	5.4276654	ppb		99
82) BROMOBENZENE	7.419	77	57604	5.6382797	ppb		97
83) 1,1,2,2-TETRACHLOROETHANE	7.455	83	40465	5.6573439	ppb		95
84) 1,2,3-TRICHLOROPROPANE	7.558	110	13365	5.6837346	ppb		89
85) TRANS-1,4-DICHLORO-2-B...	7.574	53	13369	4.6757252	ppb	#	94
86) N-PROPYLBENZENE	7.410	91	136054	5.4435677	ppb		99
87) 4-ETHYLTOLUENE	7.477	105	116620	5.5536535	ppb		99
88) 2-CHLOROTOLUENE	7.535	91	96915	5.6354184	ppb		99
89) 4-CHLOROTOLUENE	7.641	91	91521	5.7316738	ppb		99
90) 1,3,5-TRIMETHYLBENZENE	7.532	105	101886	5.6370849	ppb		99
91) TERT-BUTYLBENZENE	7.741	119	74943	5.5623756	ppb		98
92) 1,2,4-TRIMETHYLBENZENE	7.779	105	93909	5.5018332	ppb		99
93) SEC-BUTYLBENZENE	7.834	105	99764	5.2871552	ppb		98
94) 1,3-DICHLOROBENZENE	7.950	146	42515	5.6718417	ppb		100
95) P-ISOPROPYLTOLUENE	7.895	119	80964	5.2533289	ppb		99
96) DICYCLOPENTADIENE	7.905	66	112273	5.3123045	ppb		97
97) 1,4-DICHLOROBENZENE	7.982	146	41681	5.6604093	ppb		84
98) 1,2,3-TRIMETHYLBENZENE	7.982	105	63275	5.3947272	ppb		96
99) 1,2-DICHLOROBENZENE	8.140	146	37308	5.6202780	ppb		96
100) N-BUTYLBENZENE	8.062	91	61845	4.8107164	ppb		100
101) 1,2-DIBROMO-3-CHLOROPR...	8.435	157	7202	5.1853994	ppb		88
102) 1,3,5-TRICHLOROBENZENE	8.445	180	23545	5.2667890	ppb		96
103) 1,2,4-TRICHLOROBENZENE	8.705	180	20475	5.2058306	ppb		97
104) HEXACHLORO-1,3-BUTADIENE	8.683	225	7538	4.3949599	ppb		93
105) NAPHTHALENE	8.847	128	63275	4.8000392	ppb		100

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_03.D
Acq On : 24 Aug 2020 6:05 am
Operator : 859
Sample : LCS 1x WG1531200
Misc : water
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS38

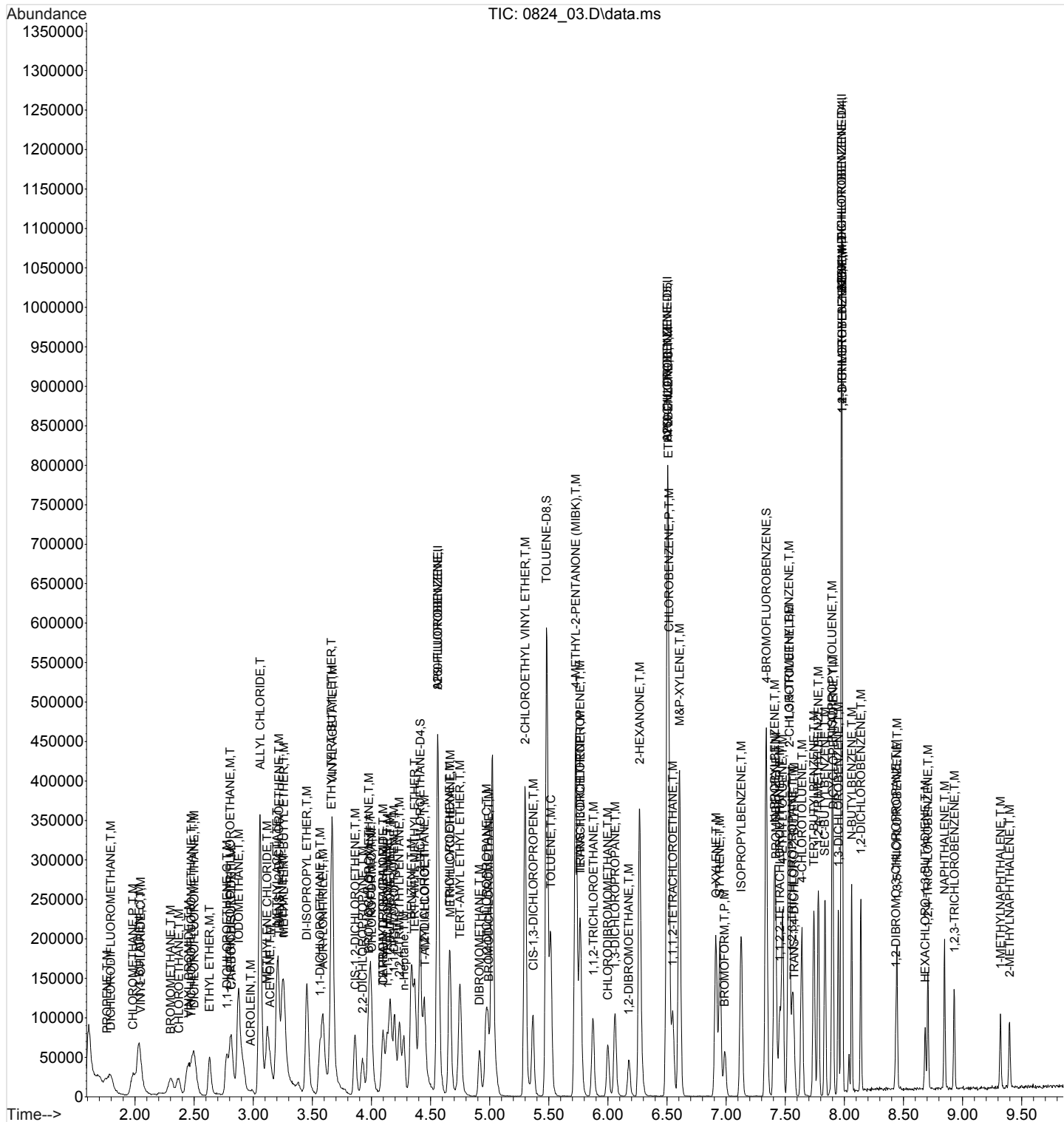
Quant Time: Aug 26 21:36:31 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
106) 1,2,3-TRICHLOROBENZENE	8.931	180	17193	4.6853037	ppb		98
107) 1-METHYLNAPHTHALENE	9.320	142	20306	3.6845559	ppb		99
108) 2-METHYLNAPHTHALENE	9.397	142	18860	4.0644036	ppb		98

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

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_03.D
Acq On : 24 Aug 2020 6:05 am
Operator : 859
Sample : LCS 1x WG1531200
Misc : water
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS38

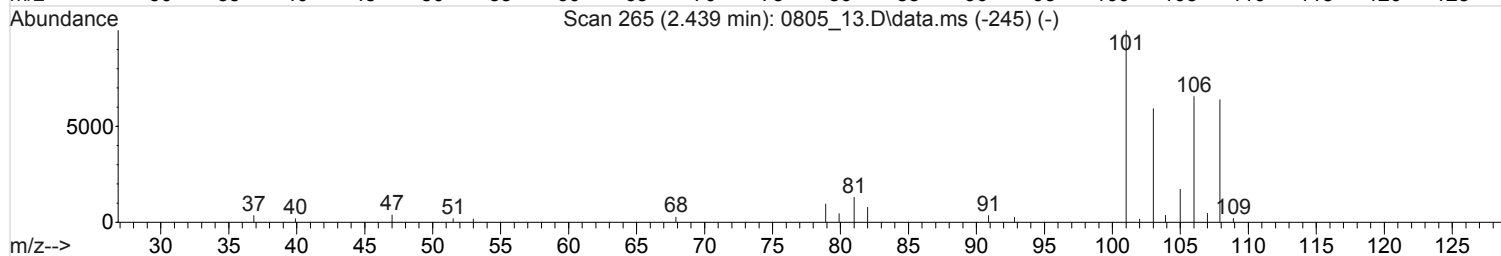
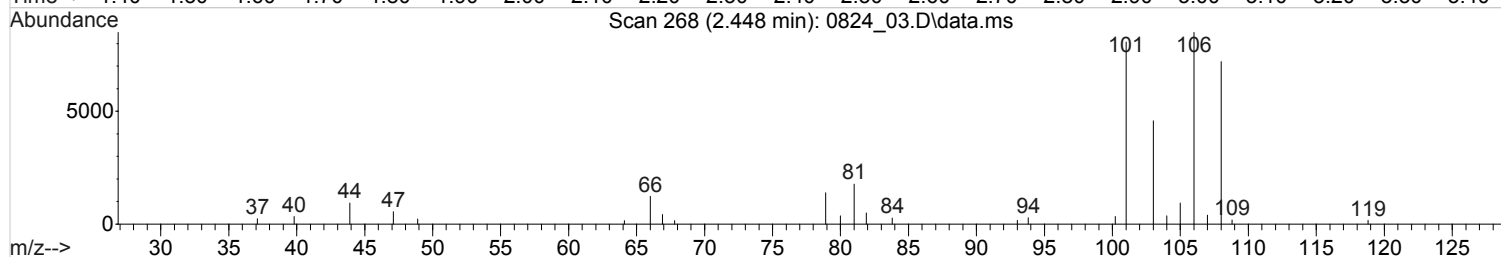
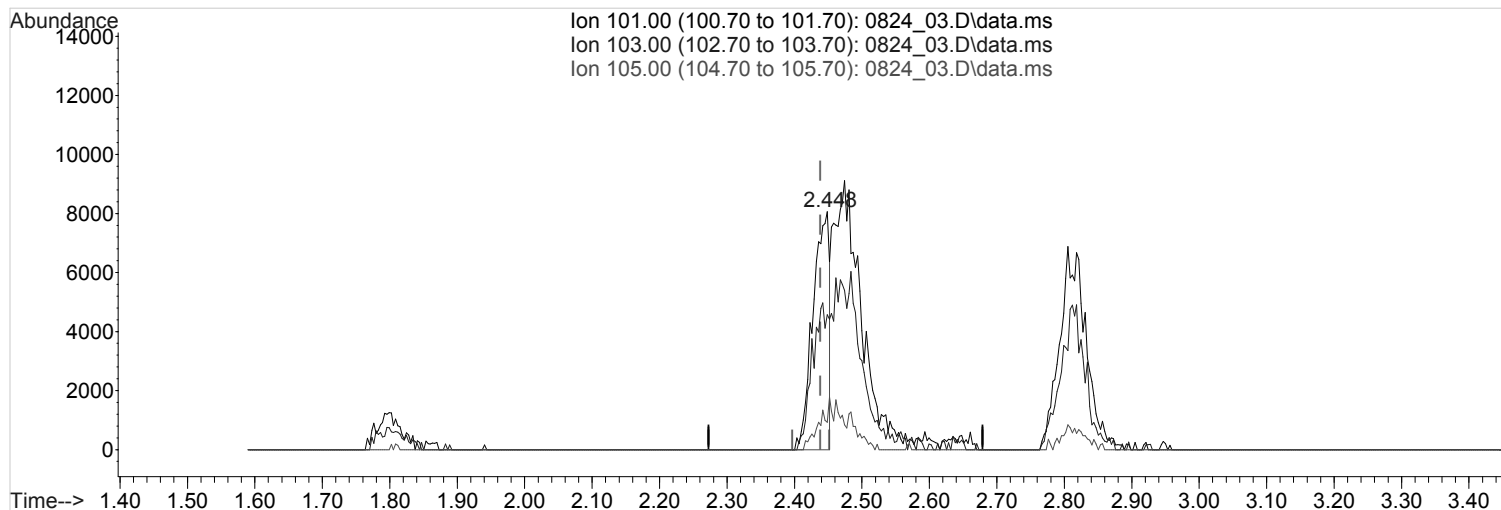
Quant Time: Aug 26 21:36:31 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_03.D
 Acq On : 24 Aug 2020 6:05 am
 Operator : 859
 Sample : LCS 1x WG1531200
 Misc : water
 ALS Vial : 3 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 25 08:18:21 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration



TIC: 0824_03.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.448min (+0.010) 1.6306889 ppb

Qvalue = 31

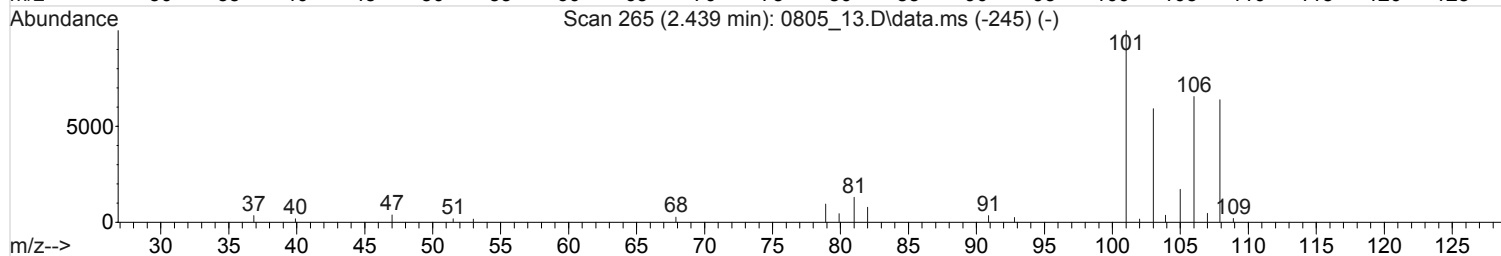
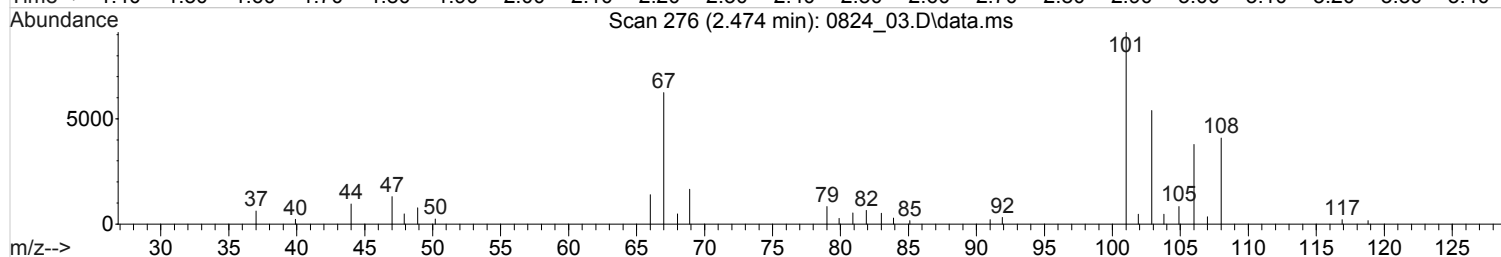
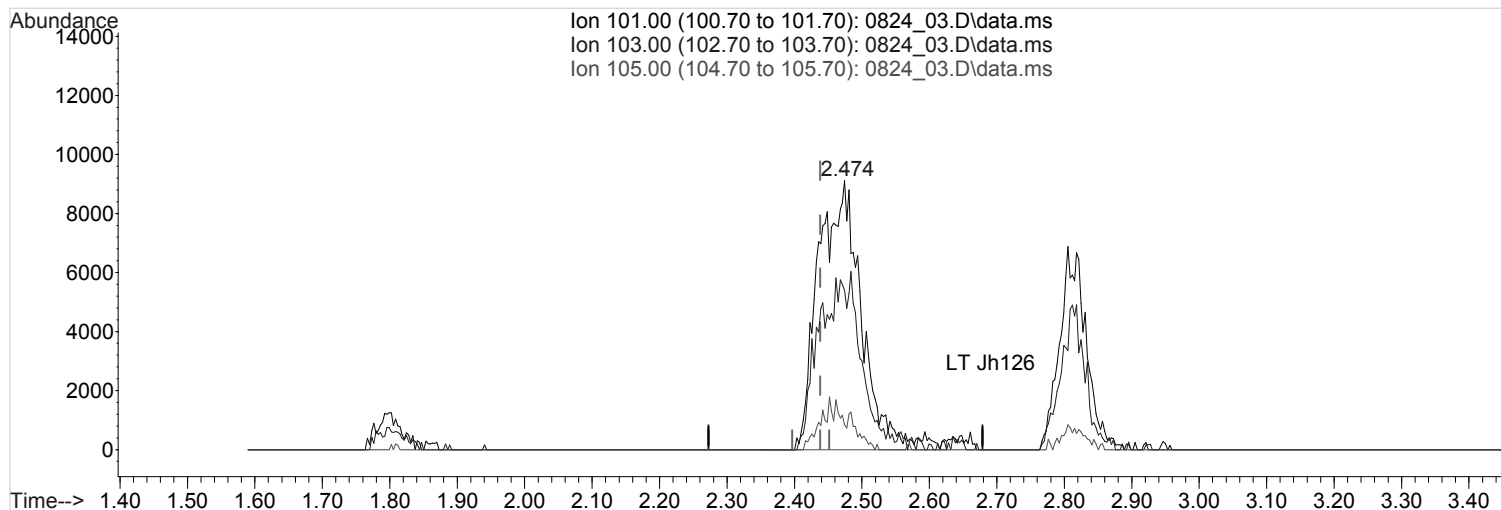
response 13427

Ion	Exp%	Act%
101.00	100	100
103.00	17.10	50.39#
105.00	4.20	16.83#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_03.D
 Acq On : 24 Aug 2020 6:05 am
 Operator : 859
 Sample : LCS 1x WG1531200
 Misc : water
 ALS Vial : 3 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 25 08:18:21 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration



TIC: 0824_03.D\data.ms

(12) TRICHLOROFLUOROMETHANE (T,M)

2.474min (+0.036) 4.9333592 ppb m

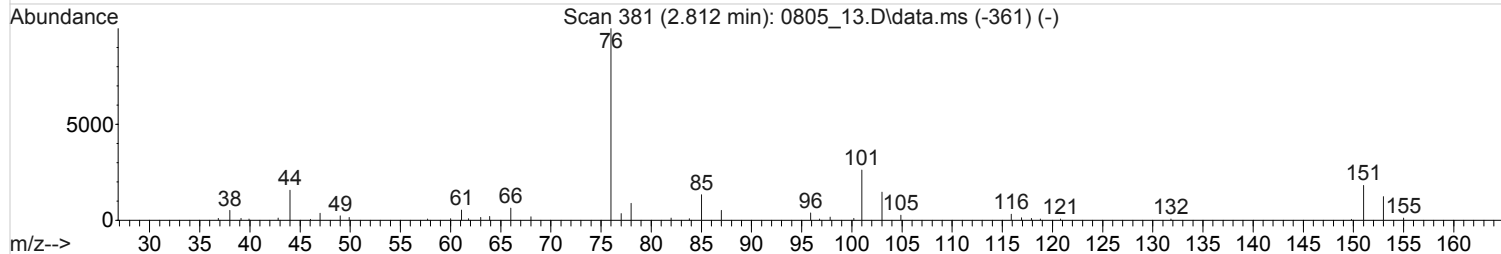
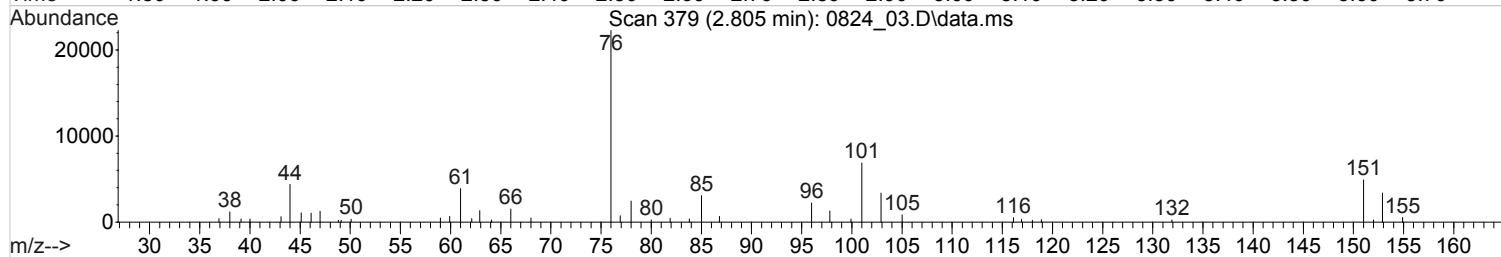
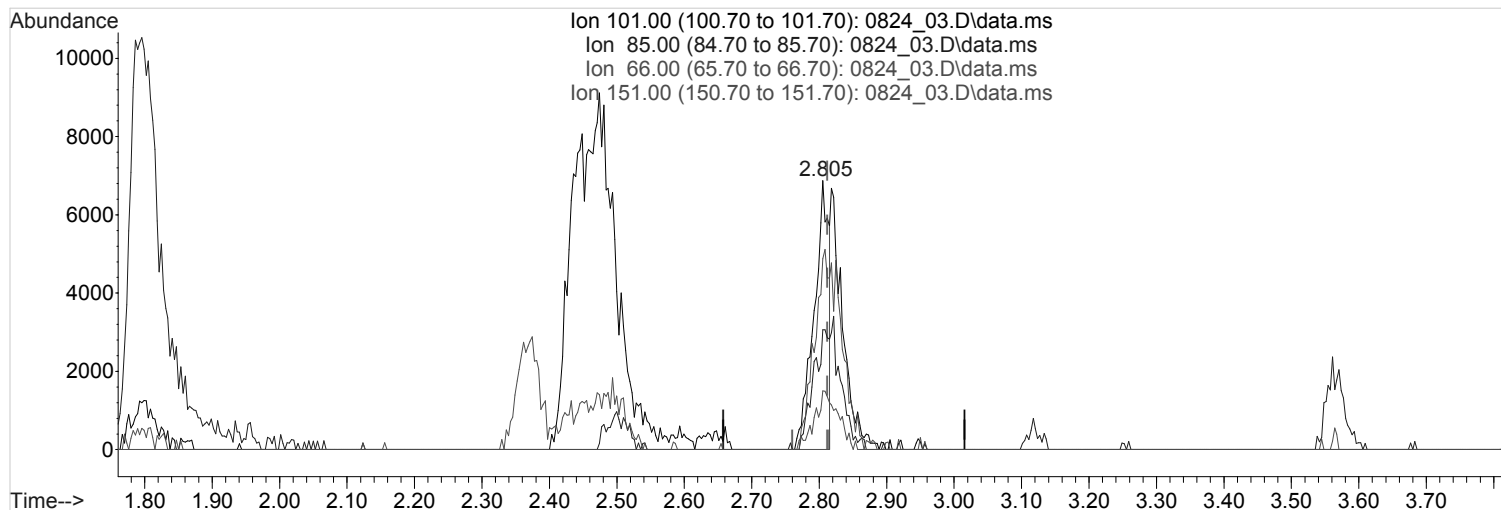
response 40621

Ion	Exp%	Act%
101.00	100	100
103.00	17.10	16.66
105.00	4.20	5.56#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_03.D
 Acq On : 24 Aug 2020 6:05 am
 Operator : 859
 Sample : LCS 1x WG1531200
 Misc : water
 ALS Vial : 3 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 25 08:18:21 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration



TIC: 0824_03.D\data.ms

(18) 1,1,2-TRICHLOROTRIFLUOROETHANE (M,T)

2.805min (-0.006) 2.5397907 ppb

Qvalue = 87

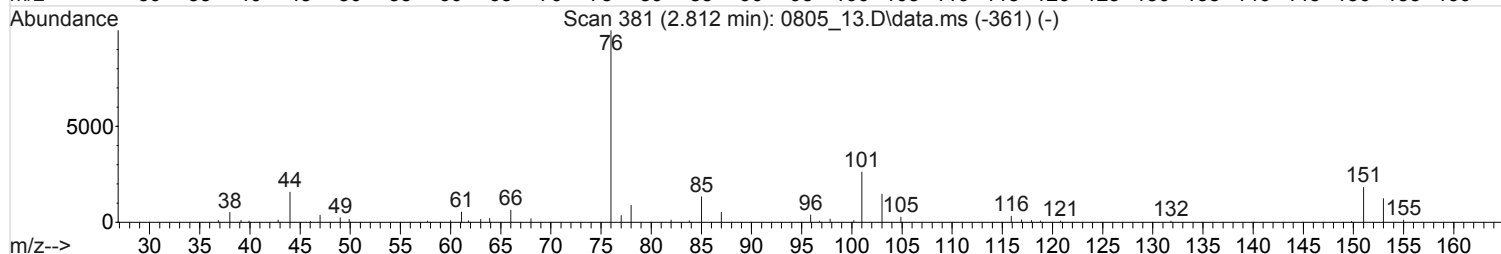
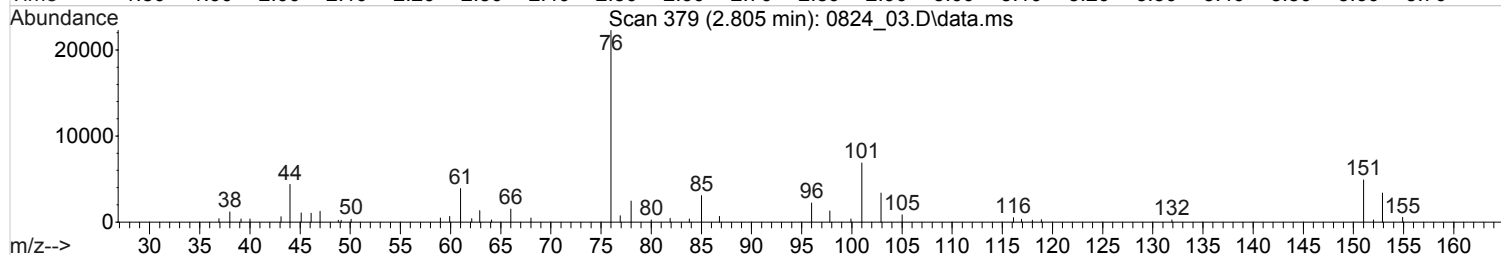
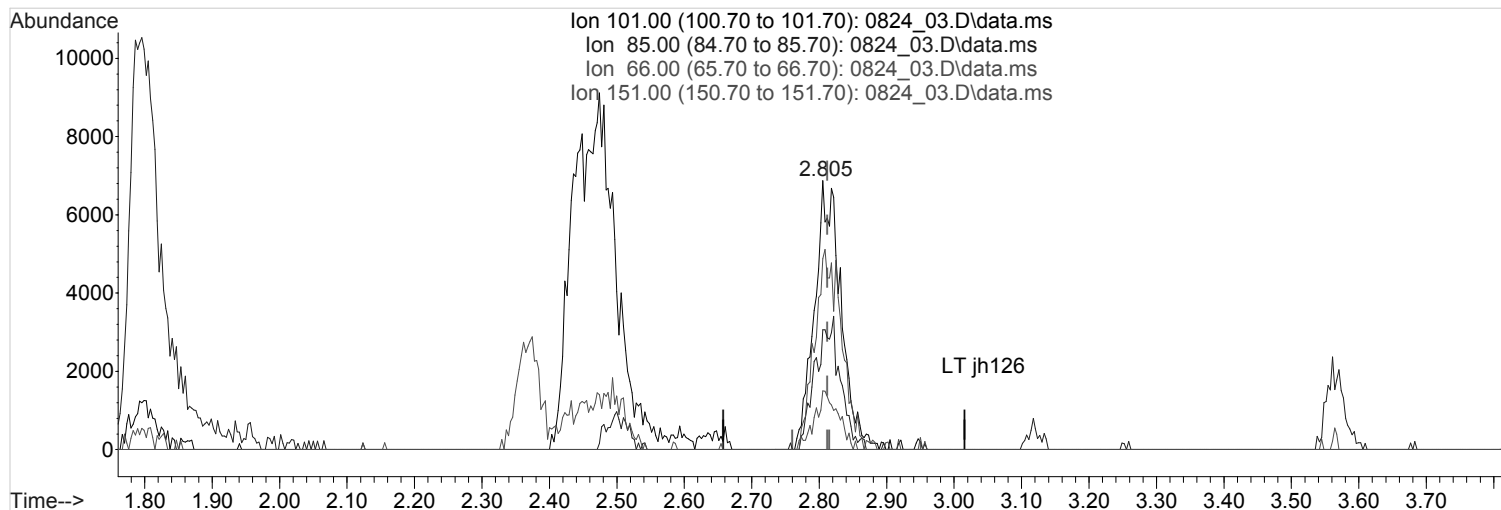
response 10406

Ion	Exp%	Act%
101.00	100	100
85.00	46.30	48.27
66.00	13.40	33.41#
151.00	79.30	89.90

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_03.D
 Acq On : 24 Aug 2020 6:05 am
 Operator : 859
 Sample : LCS 1x WG1531200
 Misc : water
 ALS Vial : 3 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 25 08:18:21 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration



TIC: 0824_03.D\data.ms

(18) 1,1,2-TRICHLOROTRIFLUOROETHANE (M,T)

2.805min (-0.006) 4.6463575 ppb m

response 19037

Ion	Exp%	Act%
101.00	100	100
85.00	46.30	26.39#
66.00	13.40	18.26#
151.00	79.30	49.14#

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEETSAMPLE NO.:
R3563649-3

Lab Sample ID: R3563649-3
Client Sample ID: MS
Lab File ID: 0824_26
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 12:27
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 14:18
Analysis Date/Time: 08/24/20 14:18
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	3.14	ND		0.0113	0.0500
Acrolein	107-02-8	2.96	ND		0.00254	0.0500
Acrylonitrile	107-13-1	3.59	0.0321		0.000671	0.0100
Benzene	71-43-2	4.34	0.00752		0.0000941	0.00100
Bromobenzene	108-86-1	7.42	0.00754	J5	0.000118	0.00100
Bromodichloromethane	75-27-4	4.99	0.00768	J5	0.000136	0.00100
Bromoform	75-25-2	6.99	0.00769	J5	0.000129	0.00100
Bromomethane	74-83-9	2.30	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	8.06	0.00707		0.000157	0.00100
sec-Butylbenzene	135-98-8	7.84	0.00733		0.000125	0.00100
tert-Butylbenzene	98-06-6	7.74	0.00768	J5	0.000127	0.00100
Carbon tetrachloride	56-23-5	4.10	0.00764		0.000128	0.00100
Chlorobenzene	108-90-7	6.52	0.00783	J5	0.000116	0.00100
Chlorodibromomethane	124-48-1	6	0.00813	J5	0.000140	0.00100
Chloroethane	75-00-3	2.37	0.00804	J5	0.000192	0.00500
Chloroform	67-66-3	4	0.00804	J5	0.000111	0.00500
Chloromethane	74-87-3	1.98	0.00827	J5	0.000960	0.00250
2-Chlorotoluene	95-49-8	7.53	0.00772	J5	0.000106	0.00100
4-Chlorotoluene	106-43-4	7.64	0.00775	J5	0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	8.44	0.00664		0.000276	0.00500
1,2-Dibromoethane	106-93-4	6.18	0.00761	J5	0.000126	0.00100
Dibromomethane	74-95-3	4.91	0.00786	J5	0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	8.14	0.00752	J5	0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	7.95	0.00799	J5	0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	7.98	0.00770	J5	0.000120	0.00100
Dichlorodifluoromethane	75-71-8	1.80	0.00827	J5	0.000374	0.00500
1,1-Dichloroethane	75-34-3	3.56	0.00789		0.000100	0.00100
1,2-Dichloroethane	107-06-2	4.45	0.00789	J5	0.0000819	0.00100
1,1-Dichloroethene	75-35-4	2.77	0.00744		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	3.86	0.00764		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	3.21	0.00755		0.000149	0.00100
1,2-Dichloropropane	78-87-5	4.97	0.00726		0.000149	0.00100
1,1-Dichloropropene	563-58-6	4.19	0.00769		0.000142	0.00100
1,3-Dichloropropane	142-28-9	6.06	0.00768	J5	0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	5.36	0.00706		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	5.76	0.00768	J5	0.000118	0.00100
2,2-Dichloropropane	594-20-7	3.93	0.00816	J5	0.000161	0.00100
Di-isopropyl ether	108-20-3	3.45	0.00742		0.000105	0.00100
Ethylbenzene	100-41-4	6.51	0.00808	J5	0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	8.68	0.00602		0.000337	0.00100
Isopropylbenzene	98-82-8	7.13	0.00785		0.000105	0.00100
p-Isopropyltoluene	99-87-6	7.90	0.00746		0.000120	0.00100
2-Butanone (MEK)	78-93-3	4.16	0.0347		0.00119	0.0100

SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: R3563649-3
Client Sample ID: MS
Lab File ID: 0824_26
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 12:27
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 14:18
Analysis Date/Time: 08/24/20 14:18
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	3.13	0.00741	J5	0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	5.73	0.0357		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	3.26	0.00750		0.000101	0.00100
Naphthalene	91-20-3	8.85	0.00582		0.00100	0.00500
n-Propylbenzene	103-65-1	7.41	0.00756		0.0000993	0.00100
Styrene	100-42-5	6.95	0.00775		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	6.55	0.00791	J5	0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	7.45	0.00737		0.000133	0.00100
Tetrachloroethene	127-18-4	5.77	0.00833	J5	0.000300	0.00100
Toluene	108-88-3	5.52	0.00795	J5	0.000278	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	2.82	0.00788		0.000180	0.00100
1,2,3-Trichlorobenzene	87-61-6	8.93	0.00609		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	8.71	0.00628		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	4.13	0.00835	J5	0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	5.87	0.00782	J5	0.000158	0.00100
Trichloroethene	79-01-6	4.66	0.00756		0.000190	0.00100
Trichlorofluoromethane	75-69-4	2.45	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	7.56	0.00791	J5	0.000237	0.00250
1,2,3-Trimethylbenzene	526-73-8	7.98	0.00758	J5	0.000104	0.00100
1,2,4-Trimethylbenzene	95-63-6	7.78	0.00748		0.000322	0.00100
1,3,5-Trimethylbenzene	108-67-8	7.53	0.00775	J5	0.000104	0.00100
Vinyl chloride	75-01-4	2.04	0.00874	J5	0.000234	0.00100
Xylenes, Total	1330-20-7	6.91	0.0235	J5	0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_26.D
 Acq On : 24 Aug 2020 2:18 pm
 Operator : 859
 Sample : MS 1x WG1531200 L1253445-05
 Misc : water
 ALS Vial : 26 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 26 21:44:57 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

Compound			R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards								
1)	8260-FLUOROBENZENE		4.564	96	293284	16.0000000	ppb	0.00
59)	8260-CHLOROBENZENE-D5		6.503	82	133815	16.0000000	ppb	0.00
81)	8260-1,4-DICHLOROBENZE...		7.976	152	84748	16.0000000	ppb	0.00
109)	AP9-FLUOROBENZENE		4.564	96	293284	16.0000000	ppb	0.00
123)	AP9-CHLOROBENZENE-D5		6.503	82	133815	16.0000000	ppb	0.00
127)	AP9-1,4-DICHLOROBENZEN...		7.976	152	84748	16.0000000	ppb	0.00
System Monitoring Compounds								
48)	1,2-DICHLOROETHANE-D4		4.410	65	130878	18.1024610	ppb	0.00
	Spiked Amount	16.000			Recovery	=	113.14%	
61)	TOLUENE-D8		5.484	98	286516	16.9124490	ppb	0.00
	Spiked Amount	16.000	Range	90 - 115	Recovery	=	105.70%	
80)	4-BROMOFLUOROBENZENE		7.339	95	110276	15.8626229	ppb	0.00
	Spiked Amount	16.000	Range	80 - 120	Recovery	=	99.14%	
Target Compounds								Qvalue
4)	PROPENE		1.760	41	25383	7.6882118	ppb	98
5)	DICHLORODIFLUOROMETHANE		1.796	85	52486	8.2676005	ppb	# 49
6)	CHLOROMETHANE		1.982	50	66011	8.2685168	ppb	91
7)	VINYL CHLORIDE		2.040	62	55311	8.7378623	ppb	# 96
8)	1,3-BUTADIENE		2.034	39	47198	7.7632711	ppb	97
9)	BROMOMETHANE		2.301	94	14263	3.6416668	ppb	# 81
10)	CHLOROETHANE		2.375	64	30179	8.0428962	ppb	93
11)	VINYL BROMIDE		2.452	106	32129	9.8685253	ppb	97
12)	TRICHLOROFLUOROMETHANE		2.448	101	21424	2.8341634	ppb	# 67
13)	DICHLOROFLUOROMETHANE		2.497	67	80504	7.6348951	ppb	98
14)	ETHYL ETHER		2.629	59	38408	7.2045160	ppb	94
15)	ACROLEIN		2.963	56	219	2.6234619	ppb	# 1
17)	1,1-DICHLOROETHENE		2.773	96	25620	7.4407126	ppb	90
18)	1,1,2-TRICHLOROTRIFLUO...		2.818	101	29646	7.8815640	ppb	# 97
19)	ACETONE		3.143	43	60830	36.2438170	ppb	96
20)	IODOMETHANE		2.876	142	261915	37.8147960	ppb	# 89
21)	CARBON DISULFIDE		2.809	76	81740	7.1287550	ppb	96
22)	ALLYL CHLORIDE		3.056	76	88980	36.9548395	ppb	90
23)	METHYLENE CHLORIDE		3.127	84	34305	7.4092378	ppb	88
24)	METHYL ACETATE		3.201	43	221078	36.9386279	ppb	# 99
25)	ACRYLONITRILE		3.590	53	119123	32.0863391	ppb	96
26)	n-HEXANE		3.249	56	34994	7.4513136	ppb	# 96
27)	TRANS-1,2-DICHLOROETHENE		3.214	96	30530	7.5476201	ppb	99
28)	METHYL TERT-BUTYL ETHER		3.262	73	112697	7.5037565	ppb	95
30)	1,1-DICHLOROETHANE		3.564	63	79551	7.8949812	ppb	98
31)	VINYL ACETATE		3.670	43	589193	36.1702781	ppb	100
32)	DI-ISOPROPYL ETHER		3.455	45	171945	7.4157476	ppb	100
33)	ETHYL TERT-BUTYL ETHER		3.657	59	150514	7.5036162	ppb	98
34)	2,2-DICHLOROPROPANE		3.928	77	48004	8.1621648	ppb	99
35)	CIS-1,2-DICHLOROETHENE		3.863	96	35185	7.6410509	ppb	99
36)	2-BUTANONE (MEK)		4.159	43	183770	34.6806936	ppb	98
37)	BROMOCHLOROMETHANE		3.976	130	22836	7.9075691	ppb	99
38)	TETRAHYDROFURAN		4.104	42	21313	5.8818796	ppb	# 93
39)	CHLOROFORM		3.998	83	73414	8.0369399	ppb	99
40)	CYCLOHEXANE		3.992	84	41912	7.0321730	ppb	99
41)	1,1,1-TRICHLOROETHANE		4.133	97	65265	8.3467027	ppb	98
42)	CARBON TETRACHLORIDE		4.101	117	51491	7.6357094	ppb	90
43)	1,1-DICHLOROPROPENE		4.194	75	48310	7.6928827	ppb	96

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_26.D
 Acq On : 24 Aug 2020 2:18 pm
 Operator : 859
 Sample : MS 1x WG1531200 L1253445-05
 Misc : water
 ALS Vial : 26 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 26 21:44:57 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
44) 2,2,4-TRIMETHYLPENTANE	4.239	57	129189	7.0444578	ppb		99
45) n-Heptane	4.278	71	20968	6.1320051	ppb	#	100
46) BENZENE	4.339	78	139012	7.5191135	ppb		100
47) TERT-AMYL METHYL ETHER	4.368	73	110364	7.3064138	ppb		98
49) 1,2-DICHLOROETHANE	4.448	62	69570	7.8950656	ppb		97
50) T-AMYL ALCOHOL	4.445	59	25724	22.3708978	ppb	#	64
51) TRICHLOROETHENE	4.661	132	33191	7.5612758	ppb		96
52) METHYL CYCLOHEXANE	4.664	83	49352	7.1344613	ppb		97
53) TERT-AMYL ETHYL ETHER	4.747	59	107007	7.0011184	ppb		99
54) 1,2-DICHLOROPROPANE	4.969	62	30064	7.2585722	ppb		99
55) DIBROMOMETHANE	4.911	93	24837	7.8555985	ppb		96
56) BROMODICHLOROMETHANE	4.992	83	56289	7.6833037	ppb		99
57) 2-CHLOROETHYL VINYL ETHER	5.368	63	433	0.0829524	ppb	#	52
58) CIS-1,3-DICHLOROPROPENE	5.365	75	59149	7.0601664	ppb	#	98
60) 4-METHYL-2-PENTANONE (...)	5.728	43	405602	35.7028259	ppb		98
62) TOLUENE	5.516	91	145929	7.9529580	ppb		99
63) TRANS-1,3-DICHLOROPROPENE	5.763	75	59652	7.6747261	ppb		99
64) 1,1,2-TRICHLOROETHANE	5.873	97	31953	7.8187203	ppb		95
65) TETRACHLOROETHENE	5.773	164	29404	8.3295793	ppb		96
66) 1,3-DICHLOROPROPANE	6.059	76	58905	7.6833273	ppb		98
67) 2-HEXANONE	6.265	58	145195	33.2346551	ppb		97
68) CHLORODIBROMOMETHANE	6.005	129	39210	8.1312992	ppb		97
69) 1,2-DIBROMOETHANE	6.175	107	36003	7.6087388	ppb		94
70) CHLOROBENZENE	6.516	112	86754	7.8313674	ppb		100
71) 1,1,1,2-TETRACHLOROETHANE	6.548	133	32954	7.9109290	ppb		96
72) ETHYLBENZENE	6.513	106	50533	8.0771508	ppb		95
73) M&P-XYLENE	6.606	106	120713	15.7056517	ppb		98
74) O-XYLENE	6.911	106	57876	7.7649781	ppb		98
77) STYRENE	6.950	104	97750	7.7515963	ppb		99
78) BROMOFORM	6.992	173	30403	7.6907623	ppb		98
79) ISOPROPYLBENZENE	7.130	105	157015	7.8552231	ppb		100
82) BROMOBENZENE	7.423	77	72531	7.5392942	ppb		97
83) 1,1,2,2-TETRACHLOROETHANE	7.455	83	49627	7.3682459	ppb		97
84) 1,2,3-TRICHLOROPROPANE	7.561	110	17519	7.9120166	ppb		83
85) TRANS-1,4-DICHLORO-2-B...	7.574	53	17420	6.4701040	ppb	#	93
86) N-PROPYLBENZENE	7.410	91	177869	7.5576300	ppb		99
87) 4-ETHYLTOLUENE	7.480	105	151599	7.6668176	ppb		99
88) 2-CHLOROTOLUENE	7.532	91	125066	7.7230256	ppb		97
89) 4-CHLOROTOLUENE	7.641	91	116557	7.7519706	ppb		100
90) 1,3,5-TRIMETHYLBENZENE	7.529	105	131969	7.7539865	ppb		99
91) TERT-BUTYLBENZENE	7.741	119	97421	7.6788268	ppb		99
92) 1,2,4-TRIMETHYLBENZENE	7.779	105	120279	7.4834708	ppb		99
93) SEC-BUTYLBENZENE	7.837	105	130310	7.3339678	ppb		98
94) 1,3-DICHLOROBENZENE	7.950	146	56391	7.9892271	ppb		98
95) P-ISOPROPYLTOLUENE	7.895	119	108294	7.4620831	ppb		100
96) DICYCLOPENTADIENE	7.905	66	140863	7.0781151	ppb		97
97) 1,4-DICHLOROBENZENE	7.982	146	53408	7.7024533	ppb	#	49
98) 1,2,3-TRIMETHYLBENZENE	7.982	105	83718	7.5800004	ppb		99
99) 1,2-DICHLOROBENZENE	8.140	146	47014	7.5213549	ppb		100
100) N-BUTYLBENZENE	8.062	91	85599	7.0710989	ppb		99
101) 1,2-DIBROMO-3-CHLOROPR...	8.435	157	8688	6.6429649	ppb		91
102) 1,3,5-TRICHLOROBENZENE	8.445	180	27478	6.5274777	ppb		96
103) 1,2,4-TRICHLOROBENZENE	8.705	180	23262	6.2809628	ppb		99
104) HEXACHLORO-1,3-BUTADIENE	8.683	225	9717	6.0165017	ppb		95
105) NAPHTHALENE	8.847	128	72293	5.8240076	ppb		100

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_26.D
Acq On : 24 Aug 2020 2:18 pm
Operator : 859
Sample : MS 1x WG1531200 L1253445-05
Misc : water
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS38

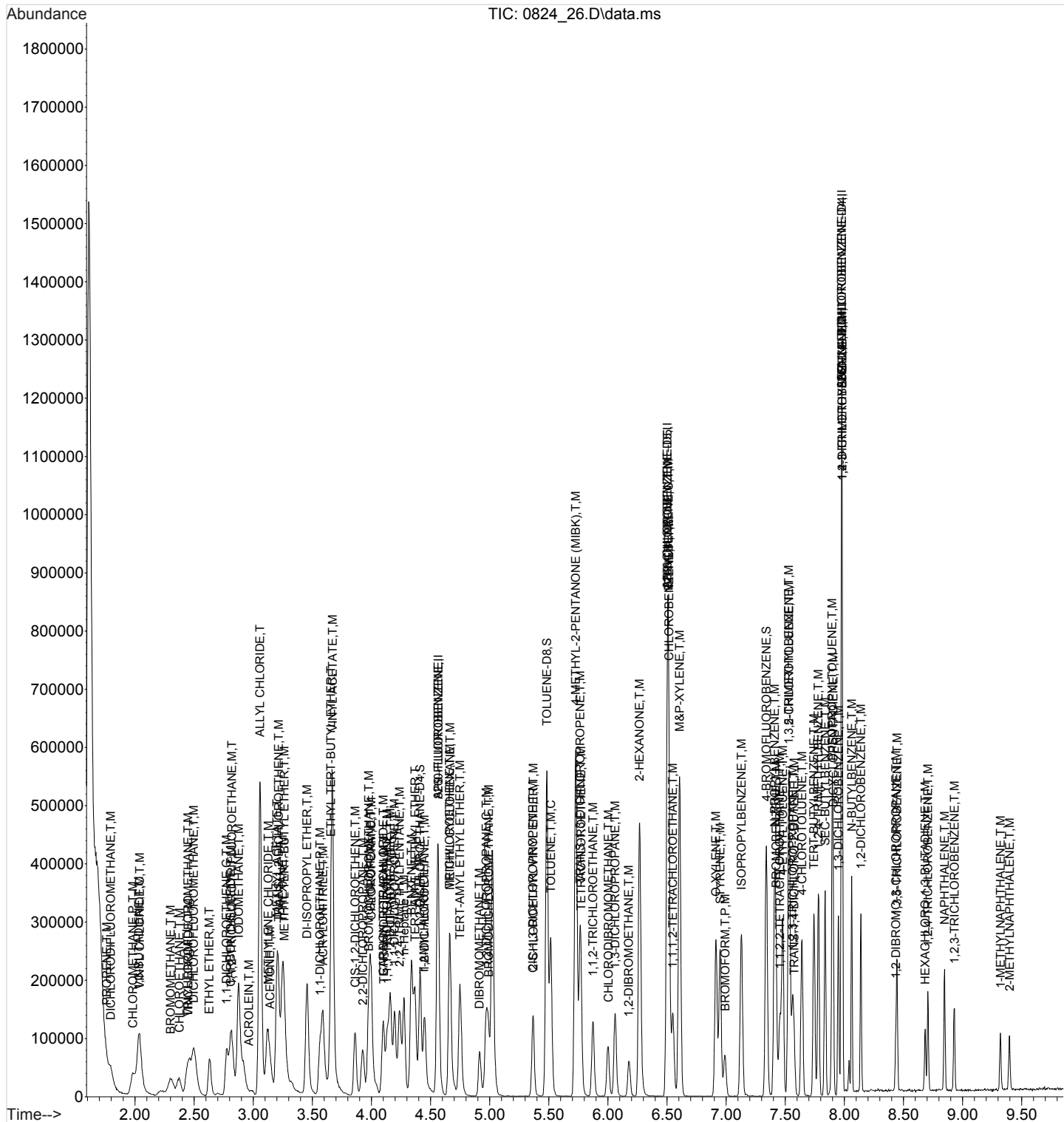
Quant Time: Aug 26 21:44:57 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
106)	1,2,3-TRICHLOROBENZENE	8.931	180	21039	6.0886951	ppb		99
107)	1-METHYLNAPHTHALENE	9.320	142	21069	4.0599225	ppb		94
108)	2-METHYLNAPHTHALENE	9.397	142	20652	4.7263982	ppb		98

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

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_26.D
Acq On : 24 Aug 2020 2:18 pm
Operator : 859
Sample : MS 1x WG1531200 L1253445-05
Misc : water
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS38

Quant Time: Aug 26 21:44:57 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEETSAMPLE NO.:
R3563649-4

Lab Sample ID: R3563649-4
Client Sample ID: MSD
Lab File ID: 0824_27
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 12:27
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 14:37
Analysis Date/Time: 08/24/20 14:37
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	3.14	ND		0.0113	0.0500
Acrolein	107-02-8	2.98	ND	J3	0.00254	0.0500
Acrylonitrile	107-13-1	3.59	0.0268		0.000671	0.0100
Benzene	71-43-2	4.34	0.00759		0.0000941	0.00100
Bromobenzene	108-86-1	7.42	0.00760	J5	0.000118	0.00100
Bromodichloromethane	75-27-4	4.99	0.00745		0.000136	0.00100
Bromoform	75-25-2	6.99	0.00733		0.000129	0.00100
Bromomethane	74-83-9	2.31	0.00798	J3	0.000605	0.00500
n-Butylbenzene	104-51-8	8.06	0.00710		0.000157	0.00100
sec-Butylbenzene	135-98-8	7.84	0.00739		0.000125	0.00100
tert-Butylbenzene	98-06-6	7.74	0.00768	J5	0.000127	0.00100
Carbon tetrachloride	56-23-5	4.10	0.00736		0.000128	0.00100
Chlorobenzene	108-90-7	6.52	0.00812	J5	0.000116	0.00100
Chlorodibromomethane	124-48-1	6	0.00795	J5	0.000140	0.00100
Chloroethane	75-00-3	2.38	0.00822	J5	0.000192	0.00500
Chloroform	67-66-3	3.99	0.00791	J5	0.000111	0.00500
Chloromethane	74-87-3	1.99	0.00739		0.000960	0.00250
2-Chlorotoluene	95-49-8	7.54	0.00773	J5	0.000106	0.00100
4-Chlorotoluene	106-43-4	7.64	0.00767	J5	0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	8.44	0.00622		0.000276	0.00500
1,2-Dibromoethane	106-93-4	6.18	0.00750	J5	0.000126	0.00100
Dibromomethane	74-95-3	4.91	0.00710		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	8.14	0.00760	J5	0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	7.95	0.00740	J5	0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	7.98	0.00750	J5	0.000120	0.00100
Dichlorodifluoromethane	75-71-8	1.80	0.00767		0.000374	0.00500
1,1-Dichloroethane	75-34-3	3.56	0.00769		0.000100	0.00100
1,2-Dichloroethane	107-06-2	4.45	0.00791	J5	0.0000819	0.00100
1,1-Dichloroethene	75-35-4	2.78	0.00703		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	3.86	0.00761		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	3.21	0.00741		0.000149	0.00100
1,2-Dichloropropane	78-87-5	4.97	0.00709		0.000149	0.00100
1,1-Dichloropropene	563-58-6	4.19	0.00778		0.000142	0.00100
1,3-Dichloropropane	142-28-9	6.06	0.00757	J5	0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	5.37	0.00699		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	5.76	0.00748	J5	0.000118	0.00100
2,2-Dichloropropane	594-20-7	3.93	0.00798	J5	0.000161	0.00100
Di-isopropyl ether	108-20-3	3.46	0.00713		0.000105	0.00100
Ethylbenzene	100-41-4	6.51	0.00803	J5	0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	8.68	0.00626		0.000337	0.00100
Isopropylbenzene	98-82-8	7.13	0.00781		0.000105	0.00100
p-Isopropyltoluene	99-87-6	7.90	0.00726		0.000120	0.00100
2-Butanone (MEK)	78-93-3	4.16	0.0292		0.00119	0.0100

SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: R3563649-4
Client Sample ID: MSD
Lab File ID: 0824_27
Instrument ID: VOCMS38
Analytical Batch: WG1531200
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253445
Collected Date/Time: 08/18/20 12:27
Received Date/Time: 08/21/20 09:30
Preparation Date/Time: 08/24/20 14:37
Analysis Date/Time: 08/24/20 14:37
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	3.12	0.00720		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	5.73	0.0330		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	3.26	0.00714		0.000101	0.00100
Naphthalene	91-20-3	8.85	0.00608		0.00100	0.00500
n-Propylbenzene	103-65-1	7.41	0.00757		0.0000993	0.00100
Styrene	100-42-5	6.95	0.00760		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	6.55	0.00755		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	7.45	0.00680		0.000133	0.00100
Tetrachloroethene	127-18-4	5.77	0.00841	J5	0.000300	0.00100
Toluene	108-88-3	5.52	0.00803	J5	0.000278	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	2.82	0.00799		0.000180	0.00100
1,2,3-Trichlorobenzene	87-61-6	8.93	0.00656		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	8.71	0.00671		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	4.14	0.00819	J5	0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	5.87	0.00749	J5	0.000158	0.00100
Trichloroethene	79-01-6	4.66	0.00771		0.000190	0.00100
Trichlorofluoromethane	75-69-4	2.44	ND	J3	0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	7.56	0.00726		0.000237	0.00250
1,2,3-Trimethylbenzene	526-73-8	7.98	0.00730		0.000104	0.00100
1,2,4-Trimethylbenzene	95-63-6	7.78	0.00743		0.000322	0.00100
1,3,5-Trimethylbenzene	108-67-8	7.53	0.00762		0.000104	0.00100
Vinyl chloride	75-01-4	2.04	0.00854	J5	0.000234	0.00100
Xylenes, Total	1330-20-7	6.92	0.0238	J5	0.000174	0.00300

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_27.D
 Acq On : 24 Aug 2020 2:37 pm
 Operator : 859
 Sample : MSD 1x WG1531200 L1253445-05
 Misc : water
 ALS Vial : 27 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 26 21:45:13 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

Compound			R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards								
1)	8260-FLUOROBENZENE		4.561	96	288846	16.0000000	ppb	0.00
59)	8260-CHLOROBENZENE-D5		6.506	82	131494	16.0000000	ppb	0.00
81)	8260-1,4-DICHLOROBENZENE...		7.976	152	84381	16.0000000	ppb	0.00
109)	AP9-FLUOROBENZENE		4.561	96	288846	16.0000000	ppb	0.00
123)	AP9-CHLOROBENZENE-D5		6.506	82	131494	16.0000000	ppb	0.00
127)	AP9-1,4-DICHLOROBENZENE...		7.976	152	84381	16.0000000	ppb	0.00
System Monitoring Compounds								
48)	1,2-DICHLOROETHANE-D4		4.413	65	127443	17.8981840	ppb	0.00
	Spiked Amount	16.000			Recovery	=	111.86%	
61)	TOLUENE-D8		5.484	98	288046	17.3028774	ppb	0.00
	Spiked Amount	16.000	Range	90 - 115	Recovery	=	108.14%	
80)	4-BROMOFLUOROBENZENE		7.342	95	106343	15.5668867	ppb	0.00
	Spiked Amount	16.000	Range	80 - 120	Recovery	=	97.29%	
Target Compounds							Qvalue	
4)	PROPENE		1.760	41	24880	7.6575320	ppb #	94
5)	DICHLORODIFLUOROMETHANE		1.799	85	47954	7.6697792	ppb #	93
6)	CHLOROMETHANE		1.989	50	58077	7.3864793	ppb #	73
7)	VINYL CHLORIDE		2.043	62	53237	8.5394376	ppb #	98
8)	1,3-BUTADIENE		2.034	39	48144	8.0405423	ppb	93
9)	BROMOMETHANE		2.307	94	30766	7.9759491	ppb #	98
10)	CHLOROETHANE		2.378	64	30393	8.2243806	ppb #	89
11)	VINYL BROMIDE		2.458	106	32059	9.9983201	ppb	99
12)	TRICHLOROFLUOROMETHANE		2.436	101	11660	1.5661916	ppb #	1
13)	DICHLOROFLUOROMETHANE		2.500	67	80622	7.7635650	ppb	100
14)	ETHYL ETHER		2.632	59	37807	7.2007436	ppb	97
15)	ACROLEIN		2.979	56	536	6.5195475	ppb #	1
17)	1,1-DICHLOROETHENE		2.776	96	23838	7.0295453	ppb #	77
18)	1,1,2-TRICHLOROTRIFLUO...		2.821	101	29608	7.9924033	ppb	97
19)	ACETONE		3.143	43	47250	28.5851147	ppb	95
20)	IODOMETHANE		2.876	142	186594	27.3540149	ppb	96
21)	CARBON DISULFIDE		2.812	76	83508	7.3948463	ppb	99
22)	ALLYL CHLORIDE		3.059	76	87225	36.7825565	ppb	93
23)	METHYLENE CHLORIDE		3.120	84	32813	7.1958825	ppb	88
24)	METHYL ACETATE		3.201	43	182311	30.9293020	ppb #	99
25)	ACRYLONITRILE		3.587	53	97956	26.7903016	ppb #	81
26)	n-HEXANE		3.249	56	31364	6.7809839	ppb #	95
27)	TRANS-1,2-DICHLOROETHENE		3.214	96	29540	7.4150782	ppb	98
28)	METHYL TERT-BUTYL ETHER		3.262	73	105589	7.1385017	ppb	92
30)	1,1-DICHLOROETHANE		3.564	63	76359	7.6946293	ppb	99
31)	VINYL ACETATE		3.670	43	553986	34.5314704	ppb	100
32)	DI-ISOPROPYL ETHER		3.458	45	162825	7.1303113	ppb	95
33)	ETHYL TERT-BUTYL ETHER		3.657	59	140217	7.0976797	ppb	99
34)	2,2-DICHLOROPROPANE		3.927	77	46250	7.9847566	ppb	98
35)	CIS-1,2-DICHLOROETHENE		3.863	96	34513	7.6102735	ppb	99
36)	2-BUTANONE (MEK)		4.162	43	152395	29.2015491	ppb	94
37)	BROMOCHLOROMETHANE		3.976	130	20550	7.2253152	ppb	90
38)	TETRAHYDROFURAN		4.101	42	18826	5.2753541	ppb #	94
39)	CHLOROFORM		3.995	83	71142	7.9078772	ppb	99
40)	CYCLOHEXANE		3.989	84	35583	6.0619973	ppb	81
41)	1,1,1-TRICHLOROETHANE		4.136	97	63099	8.1936817	ppb	98
42)	CARBON TETRACHLORIDE		4.101	117	48852	7.3556732	ppb	92
43)	1,1-DICHLOROPROPENE		4.194	75	48102	7.7774499	ppb	100

Data Path : C:\msdchem\1\data\082420\
 Data File : 0824_27.D
 Acq On : 24 Aug 2020 2:37 pm
 Operator : 859
 Sample : MSD 1x WG1531200 L1253445-05
 Misc : water
 ALS Vial : 27 Sample Multiplier: 1
 InstName : VOCMS38

Quant Time: Aug 26 21:45:13 2020
 Quant Method : C:\msdchem\1\methods\V838H05T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 06 11:22:11 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
44) 2,2,4-TRIMETHYLPENTANE	4.243	57	113981	6.3106851	ppb		95
45) n-Heptane	4.278	71	20088	5.9649144	ppb	#	85
46) BENZENE	4.339	78	138145	7.5870253	ppb		98
47) TERT-AMYL METHYL ETHER	4.368	73	105523	7.0932616	ppb		99
49) 1,2-DICHLOROETHANE	4.448	62	68628	7.9078259	ppb		98
50) T-AMYL ALCOHOL	4.452	59	23284	20.5600666	ppb	#	48
51) TRICHLOROETHENE	4.661	132	33331	7.7098352	ppb		98
52) METHYL CYCLOHEXANE	4.670	83	47863	7.0255181	ppb		97
53) TERT-AMYL ETHYL ETHER	4.751	59	104172	6.9203530	ppb		97
54) 1,2-DICHLOROPROPANE	4.969	62	28906	7.0862170	ppb		98
55) DIBROMOMETHANE	4.911	93	22098	7.0966784	ppb		97
56) BROMODICHLOROMETHANE	4.992	83	53742	7.4483540	ppb		98
58) CIS-1,3-DICHLOROPROPENE	5.368	75	57700	6.9930295	ppb	#	97
60) 4-METHYL-2-PENTANONE (...)	5.731	43	368044	32.9686458	ppb		99
62) TOLUENE	5.519	91	144739	8.0273373	ppb		96
63) TRANS-1,3-DICHLOROPROPENE	5.763	75	57091	7.4748828	ppb		99
64) 1,1,2-TRICHLOROETHANE	5.873	97	30068	7.4873381	ppb		100
65) TETRACHLOROETHENE	5.773	164	29163	8.4071291	ppb		98
66) 1,3-DICHLOROPROPANE	6.059	76	57033	7.5704597	ppb		98
67) 2-HEXANONE	6.268	58	131023	30.5200974	ppb		99
68) CHLORODIBROMOMETHANE	6.001	129	37652	7.9460266	ppb		97
69) 1,2-DIBROMOETHANE	6.178	107	34886	7.5028113	ppb		99
70) CHLOROBENZENE	6.516	112	88338	8.1151119	ppb		98
71) 1,1,1,2-TETRACHLOROETHANE	6.551	133	30916	7.5526874	ppb	#	97
72) ETHYLBENZENE	6.513	106	49356	8.0282692	ppb		98
73) M&P-XYLENE	6.606	106	119295	15.7951233	ppb		98
74) O-XYLENE	6.918	106	58212	7.9479131	ppb		100
77) STYRENE	6.950	104	94218	7.6033874	ppb		97
78) BROMOFORM	6.992	173	28463	7.3271061	ppb		100
79) ISOPROPYLBENZENE	7.130	105	153385	7.8090668	ppb		98
82) BROMOBENZENE	7.419	77	72747	7.5946349	ppb		95
83) 1,1,2,2-TETRACHLOROETHANE	7.455	83	45593	6.7987496	ppb		98
84) 1,2,3-TRICHLOROPROPANE	7.558	110	15997	7.2560658	ppb		86
85) TRANS-1,4-DICHLORO-2-B...	7.577	53	15962	5.9543616	ppb	#	93
86) N-PROPYLBENZENE	7.410	91	177458	7.5729613	ppb		99
87) 4-ETHYLTOLUENE	7.480	105	149420	7.5894852	ppb		99
88) 2-CHLOROTOLUENE	7.535	91	124575	7.7261636	ppb		99
89) 4-CHLOROTOLUENE	7.641	91	114783	7.6671881	ppb		100
90) 1,3,5-TRIMETHYLBENZENE	7.532	105	129137	7.6205900	ppb		99
91) TERT-BUTYLBENZENE	7.741	119	96954	7.6752549	ppb		99
92) 1,2,4-TRIMETHYLBENZENE	7.779	105	118952	7.4330969	ppb		98
93) SEC-BUTYLBENZENE	7.837	105	130800	7.3935632	ppb		98
94) 1,3-DICHLOROBENZENE	7.950	146	52034	7.4040096	ppb		97
95) P-ISOPROPYLTOLUENE	7.898	119	104946	7.2628382	ppb		98
96) DICYCLOPENTADIENE	7.905	66	142070	7.1698135	ppb		97
97) 1,4-DICHLOROBENZENE	7.982	146	51777	7.4997093	ppb	#	51
98) 1,2,3-TRIMETHYLBENZENE	7.982	105	80288	7.3010583	ppb		99
99) 1,2-DICHLOROBENZENE	8.140	146	47290	7.5984145	ppb		96
100) N-BUTYLBENZENE	8.062	91	85535	7.0965435	ppb		99
101) 1,2-DIBROMO-3-CHLOROPR...	8.435	157	8101	6.2210769	ppb		88
102) 1,3,5-TRICHLOROBENZENE	8.445	180	29931	7.1411194	ppb		95
103) 1,2,4-TRICHLOROBENZENE	8.705	180	24727	6.7055652	ppb		100
104) HEXACHLORO-1,3-BUTADIENE	8.683	225	10069	6.2615661	ppb		95
105) NAPHTHALENE	8.847	128	75135	6.0792887	ppb		98
106) 1,2,3-TRICHLOROBENZENE	8.927	180	22573	6.5610478	ppb		99

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_27.D
Acq On : 24 Aug 2020 2:37 pm
Operator : 859
Sample : MSD 1x WG1531200 L1253445-05
Misc : water
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS38

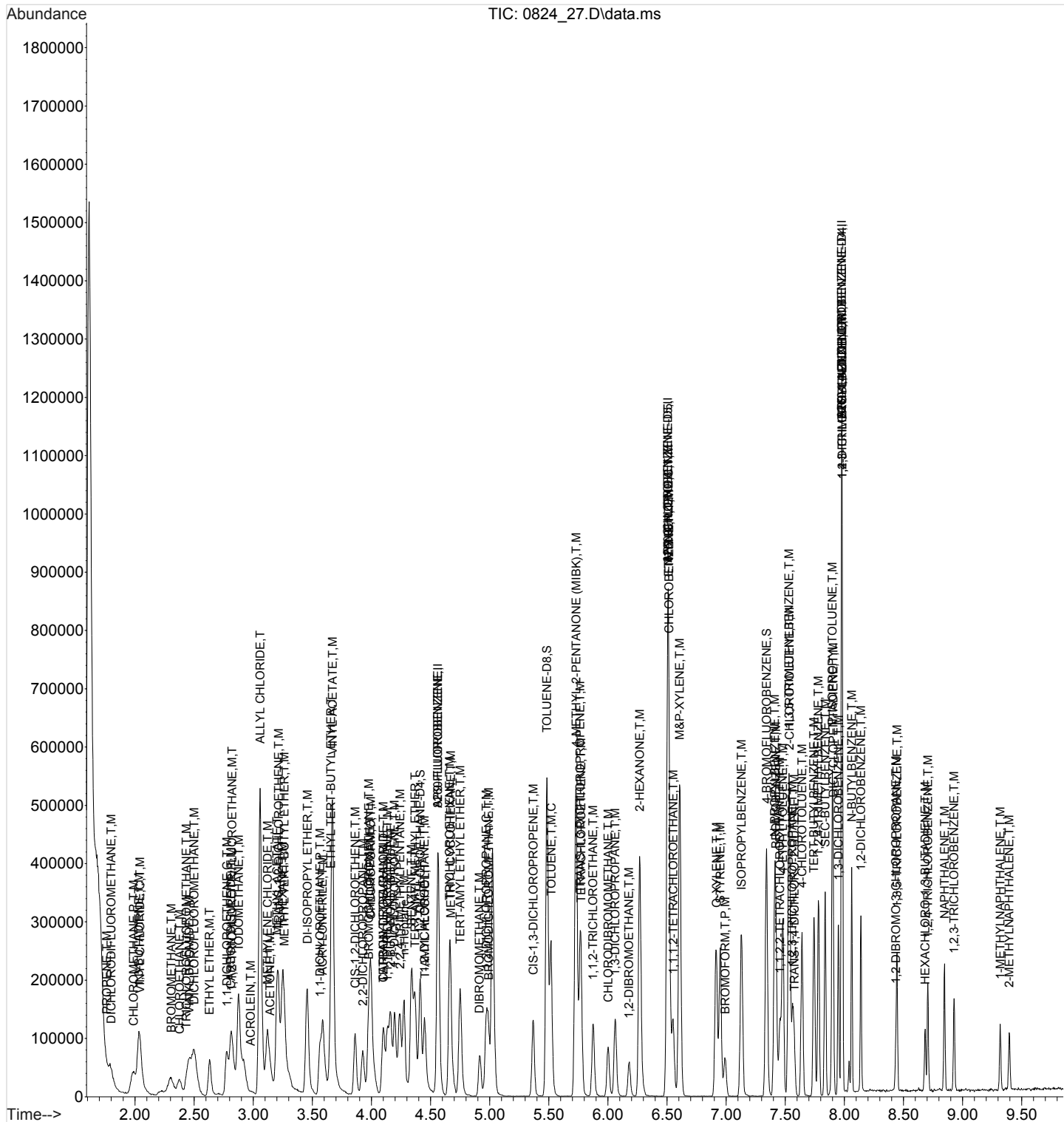
Quant Time: Aug 26 21:45:13 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
107) 1-METHYLNAPHTHALENE	9.316	142	24702	4.7806916	ppb		97
108) 2-METHYLNAPHTHALENE	9.393	142	22615	5.1981592	ppb		96

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

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_27.D
Acq On : 24 Aug 2020 2:37 pm
Operator : 859
Sample : MSD 1x WG1531200 L1253445-05
Misc : water
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS38

Quant Time: Aug 26 21:45:13 2020
Quant Method : C:\msdchem\1\methods\V838H05T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 06 11:22:11 2020
Response via : Initial Calibration



8260 Water VOCs Benchsheet

Batch: WG1531200

Analyst: WDK988 40mLVOAVial Lot#: 41978 pH Strip Lot#: 10BDH0201 Chlorine Strip Lot#: na Batch Date/Time: 08/24/20 07:30
Prep End Date/Time: 08/25/20 08:34 Method: 8260 SOP: ENV-SOP-MTJL-0100

ICV Standard: 20H23085 Amt. Used: 2.50 µL Exp. Date:08/30/20 LCS/D/MS/D Standard: 20H23085 Amt. Used: 2.50 µL Exp. Date:08/30/20
Internal Standard/Surrogate: 20G06381 Amt. Used: 1 µL Exp. Date:12/17/20

Sample Number	Analytical Dilution	Sample Vol Used (mL)	Final Volume (mL)	pH	Collection Date	Prep Factor	Prep Ratio	Spike Factor	Surrogate Factor	Review Analyst	Review Date	Sample Comments
BLANK	1	5	5	7		1	1	1	1	CAM3512	08/25/20 08:34:33	
LCS	1	5	5	7		1	1	1	1	CAM3512	08/25/20 08:34:33	
MS(L1253445-05)	1	5	5	<2		1	1	1	1	CAM3512	08/25/20 08:34:33	
MSD(L1253445-05)	1	5	5	<2		1	1	1	1	CAM3512	08/25/20 08:34:33	
1. L1253342-01	2	5	2.5	~7	08/20/20 09:00	1	1	1	1	CAM3512	08/25/20 08:34:33	V:S 250 2X dilution (5.0mL 20E11131); 2x due to soil
2. L1253342-02	1	5	5	~7	08/20/20 10:40	1	1	1	1	CAM3512	08/25/20 08:34:33	
3. L1253342-03	2	5	2.5	~7	08/20/20 12:10	1	1	1	1	CAM3512	08/25/20 08:34:33	V:S 250 2X dilution (5.0mL 20E11131); 2x due to soil
4. L1253342-04	2	5	2.5	~7	08/20/20 13:45	1	1	1	1	CAM3512	08/25/20 08:34:33	V:S 250 2X dilution (5.0mL 20E11131); 2x due to soil
5. L1253342-05	1	5	5	~7	08/20/20 15:00	1	1	1	1	CAM3512	08/25/20 08:34:33	
6. L1253385-14	1	5	5	<2	08/19/20 10:00	1	1	1	1	CAM3512	08/25/20 08:34:33	
7. L1253385-15	1	5	5	<2	08/19/20 11:15	1	1	1	1	CAM3512	08/25/20 08:34:33	
8. L1253385-16	1	5	5	~7	08/19/20 09:00	1	1	1	1	CAM3512	08/25/20 08:34:33	
9. L1253385-17	1	5	5	<2	08/19/20 13:10	1	1	1	1	CAM3512	08/25/20 08:34:33	
10. L1253385-18	1	5	5	<2	08/19/20 12:30	1	1	1	1	CAM3512	08/25/20 08:34:33	
11. L1253387-03	1	5	5	<2	08/19/20 12:49	1	1	1	1	CAM3512	08/25/20 08:34:33	
12. L1253445-01	1	5	5	<2	08/18/20 15:27	1	1	1	1	CAM3512	08/25/20 08:34:33	Diss. Metals = FF
13. L1253445-02	1	5	5	<2	08/18/20 16:07	1	1	1	1	CAM3512	08/25/20 08:34:33	Diss. Metals = FF
14. L1253445-03	1	5	5	<2	08/18/20 13:58	1	1	1	1	CAM3512	08/25/20 08:34:33	Diss. Metals = FF
15. L1253445-04	1	5	5	<2	08/18/20 14:38	1	1	1	1	CAM3512	08/25/20 08:34:33	Diss. Metals = FF
16. L1253445-05	1	5	5	<2	08/18/20 12:27	1	1	1	1	CAM3512	08/25/20 08:34:33	MS/MSD. Diss. Metals = FF
17. L1253445-06	1	5	5	<2	08/18/20 13:18	1	1	1	1	CAM3512	08/25/20 08:34:33	Diss. Metals = FF
18. L1253445-07	1	5	5	<2	08/18/20 17:04	1	1	1	1	CAM3512	08/25/20 08:34:33	Diss. Metals = FF
19. L1253445-08	1	5	5	<2	08/18/20 11:46	1	1	1	1	CAM3512	08/25/20 08:34:33	Diss. Metals = FF
20. L1253445-09	1	5	5	<2	08/18/20 11:11	1	1	1	1	CAM3512	08/25/20 08:34:33	Diss. Metals = FF

Comments:

Reviewed By:CAM3512 on 08/25/20 08:34:33

8260 Water VOCs Benchsheet

Batch: WG1531305

Analyst: AV808 **40mLVOA**Vial Lot#: 41978 **pH Strip Lot#:** 10BDH0201 **Chlorine Strip Lot#:** na **Batch Date/Time:** 08/24/20 10:52
Prep End Date/Time: 08/25/20 09:34 **Method:** 8260 **SOP:** ENV-SOP-MTJL-0100

ICV Standard: 20H24142 Amt. Used: 2.50 µL Exp. Date:08/31/20 **LCS/D/MS/D Standard:** 20H24142 Amt. Used: 2.50 µL Exp. Date:08/31/20
Internal Standard/Surrogate: 20G06381 Amt. Used: 1 µL Exp. Date:12/17/20

Sample Number	Analytical Dilution	Sample Vol Used (mL)	Final Volume (mL)	pH	Collection Date	Prep Factor	Prep Ratio	Spike Factor	Surrogate Factor	Review Analyst	Review Date	Sample Comments
BLANK	1	5	5	7		1	1	1	1	CAM3512	08/25/20 09:34:27	
LCS	1	5	5	7		1	1	1	1	CAM3512	08/25/20 09:34:27	
1. L1252664-34	1	5	5	<2	08/19/20 16:25	1	1	1	1	CAM3512	08/25/20 09:34:27	Use one of the Trip Blanks labeled as -26; trip blank
2. L1253444-01	1	5	5	<2	08/19/20 10:00	1	1	1	1	CAM3512	08/25/20 09:34:27	
3. L1253444-02	1	5	5	<2	08/19/20 12:40	1	1	1	1	CAM3512	08/25/20 09:34:27	
4. L1253444-03	1	5	5	<2	08/19/20 13:04	1	1	1	1	CAM3512	08/25/20 09:34:27	
5. L1253444-04	1	5	5	<2	08/20/20 08:50	1	1	1	1	CAM3512	08/25/20 09:34:27	
6. L1253444-05	1	5	5	<2	08/20/20 09:03	1	1	1	1	CAM3512	08/25/20 09:34:27	
7. L1253445-10	1	5	5	<2	08/20/20 11:17	1	1	1	1	CAM3512	08/25/20 09:34:27	Diss. Metals = FF
8. L1253445-11	1	5	5	<2	08/20/20 08:38	1	1	1	1	CAM3512	08/25/20 09:34:27	Diss. Metals = FF
9. L1253445-12	1	5	5	<2	08/20/20 09:23	1	1	1	1	CAM3512	08/25/20 09:34:27	Diss. Metals = FF
10. L1253445-13	1	5	5	<2	08/20/20 10:07	1	1	1	1	CAM3512	08/25/20 09:34:27	Diss. Metals = FF
11. L1253445-14	1	5	5	<2	08/20/20 00:00	1	1	1	1	CAM3512	08/25/20 09:34:27	Diss. Metals = FF
12. L1253445-15	1	5	5	<2	08/18/20 00:00	1	1	1	1	CAM3512	08/25/20 09:34:27	trip blank
13. L1253465-07	1	5	5	<2	08/18/20 09:13	1	1	1	1	CAM3512	08/25/20 09:34:27	:ESI
14. L1253465-08	1	5	5	<2	08/18/20 09:13	1	1	1	1	CAM3512	08/25/20 09:34:27	:ESI
15. L1253465-09	1	5	5	<2	08/18/20 09:13	1	1	1	1	CAM3512	08/25/20 09:34:27	:ESI
16. L1253465-10	10	5	0.5	<2	08/18/20 09:27	1	1	1	1	CAM3512	08/25/20 09:34:27	:ESI
17. L1253465-11	10	5	0.5	<2	08/18/20 09:27	1	1	1	1	CAM3512	08/25/20 09:34:27	:ESI
18. L1253465-12	10	5	0.5	<2	08/18/20 09:27	1	1	1	1	CAM3512	08/25/20 09:34:27	:ESI; anti-foam added

Comments:

Reviewed By:CAM3512 on 08/25/20 09:34:27



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

COD	Coefficient of Determination.
Corr.	Correlation Coefficient.
Incpt	Intercept.
Mass	Mass of parameter.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
RRF	Relative Response Factor.
RT	Retention Time.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Slope	Slope of calibration curve.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Wavelength	Wavelength of parameter.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

1	Cp
2	Tc
3	Ss
4	Cn
5	Su
6	Gl
7	Al
8	Sc



Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

¹Cp

²Tc

³Ss

⁴Cn

⁵Su

⁶Gl

⁷Al

⁸Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

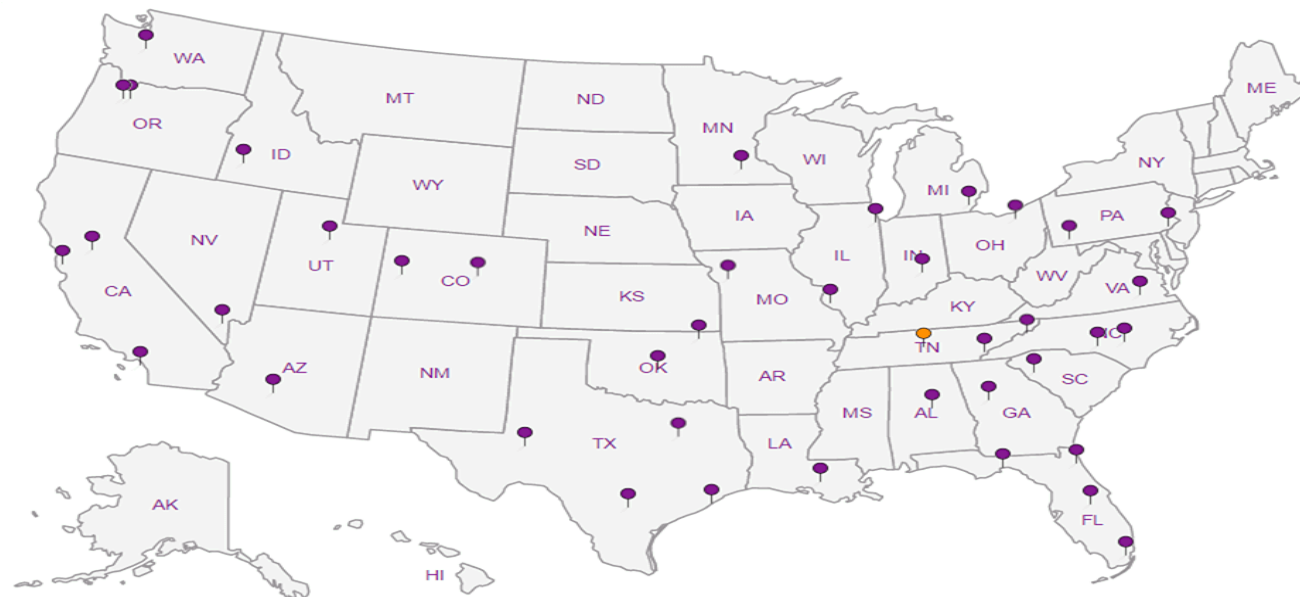
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Patriot Engineering - Ft. Wayne

6150 E. 75th Street
Indianapolis, IN 46250

Billing Information:

Attn: Accounts Payable
6150 E. 75 Street
Indianapolis, IN 46250Pres
ChkEmail To:
kgrossman@patrioteng.com; SSittler@patriotenReport to:
Kendra Grossman GutowskiProject Description:
Douglas LandfillCity/State
Collected: MISHAWAKA, INPlease Circle:
PT MT CT ET

Phone: 317-558-5060

Client Project #

16-1731-04E

Lab Project #

PATENGFW-DOUGLAS LF

Collected by (print):

mack/VISHAL

Site/Facility ID #

MISHAWAKA, IN

P.O. #

Collected by (signature):

V. K. Sittler

Rush? (Lab MUST Be Notified)

☐ Same Day ☐ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Quote #

Date Results Needed

No.
of
CntrsImmediately
Packed on Ice N ☐ Y ☒

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time														
MW-02S	Gr	GW		8/18/20	15:27	4	X	X											-01
MW-02I	Gr	GW		"	16:07	4	X	X											02
MW-03S	Gr	GW		"	13:58	4	X	X											03
MW-03I	Gr	GW		"	14:38	4	X	X											04
MW-04I	Gr	GW		"	12:27	12	X	X	X	X									05
MW-04D	Gr	GW		"	13:18	4	X	X											06
MW-5S	Gr	GW		"	17:04	4	X	X											07
MW-07S	Gr	GW		"	11:46	4	X	X											08
MW-07I	Gr	GW		"	11:11	4	X	X											09
MW-06SR	Gr	GW		8-20-20	11:17	4	X	X											10

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - Waste Water
DW - Drinking Water
OT - Other

Remarks: Dissolved metals have been field filtered

* Standard TAT
* Level IV Data Quality

Samples returned via:

☐ UPS ☐ FedEx ☒ Courier

Tracking #

905008422075

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero Headpace:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Relinquished by: (Signature)

V. K. Sittler / Patriot

Date:

8/20/20

Time:

Received by: (Signature)

Trip Blank Received: ☒ Yes ☐ NoHCL MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: 21.9°C
2.9±0.2.9 64

Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 8/21/20 Time: 0930

Hold:

Condition:
NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1253445

1239

Acctnum: PATENGFW

Template: T142681

Prelogin: P791528

PM: 873 - Heather J Wagner

PB: EU

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

Patriot Engineering - Ft. Wayne

6150 E. 75th Street
Indianapolis, IN 46250

Report to:
Kendra Grossman Gutowski

Project Description:
Douglas Landfill

City/State
Collected: **MISHAWAKA IN**

Please Circle:
PT MT CT ET

Phone: 317-558-5060

Client Project #
16-1731-04E

Lab Project #
PATENGFW-DOUGLAS LF

Collected by (print):
VISHAL SHAH

Site/Facility ID #
MISHAWAKA, IN

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Immediately
Packed on Ice N ☐ Y ☒

☐ Same Day ☐ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Date Results Needed

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
MW-15S	Gr	GW		8-20-20	8:38	4
MW-15I	Gr	GW		"	9:23	4
MW-16S	Gr	GW		"	10:07	4
DUP-3	Gr	GW		"	—	4
Trip blank	—	GW		—	—	1
		GW				
		GW				
		GW				
		GW				
		GW				

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: Dissolved metals have been field filtered

* **Standard TAT**
* **Level IV Data Quality**

Samples returned via:
☐ UPS ☐ FedEx ☒ Courier

Tracking #

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N
COC Signed/Accurate: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
If Applicable
VOA Zero Headspace: ☒ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N
RAD Screen <0.5 mR/hr: ☒ Y ☐ N

Relinquished by: (Signature)
Vishal Shah / Patriot

Date:
8/20/20

Time:

Received by: (Signature)

Trip Blank Received: Yes / No
HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: **2.9 ± 0.2 °C**
Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: Time:

Hold:

Condition:
NCF / **OK**

Billing Information:

Attn: Accounts Payable
6150 E. 75 Street
Indianapolis, IN 46250

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 2



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



SDG # **L1253445**

Table #

Acctnum: PATENGFW

Template: T142681

Prelogin: P791528

PM: 873 - Heather J Wagner

PB: EU

Shipped Via: FedEX Ground

Remarks Sample # (lab only)

-11

12

13

14

15

August 31, 2020

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Su

⁶ Gl

⁷ Al

⁸ Sc

Patriot Engineering - Ft. Wayne

Sample Delivery Group: L1253450
Samples Received: 08/21/2020
Project Number: 16-1731-04E
Description: Douglas Landfill
Site: MISHAWAKA, IN
Report To: Kendra Grossman Gutowski
6150 E. 75th Street
Indianapolis, IN 46250

Entire Report Reviewed By:



Heather J Wagner
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.





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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-01S L1253450-01 GW

				Collected by Mack/Vishal	Collected date/time 08/18/20 11:00	Received date/time 08/21/20 09:31
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531654	1	08/25/20 05:18	08/25/20 05:18	ACG	Mt. Juliet, TN

MW-01I L1253450-02 GW

				Collected by Mack/Vishal	Collected date/time 08/18/20 11:35	Received date/time 08/21/20 09:31
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531462	1	08/26/20 15:02	08/27/20 16:09	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531654	1	08/25/20 05:38	08/25/20 05:38	ACG	Mt. Juliet, TN

MW-01D L1253450-03 GW

				Collected by Mack/Vishal	Collected date/time 08/18/20 12:28	Received date/time 08/21/20 09:31
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531462	1	08/26/20 15:02	08/27/20 16:17	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531654	1	08/25/20 05:57	08/25/20 05:57	ACG	Mt. Juliet, TN

MW-5I L1253450-04 GW

				Collected by Mack/Vishal	Collected date/time 08/18/20 16:58	Received date/time 08/21/20 09:31
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531462	1	08/26/20 15:02	08/27/20 16:20	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531654	1	08/25/20 06:17	08/25/20 06:17	ACG	Mt. Juliet, TN

MW-10S L1253450-05 GW

				Collected by Mack/Vishal	Collected date/time 08/18/20 15:04	Received date/time 08/21/20 09:31
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531462	1	08/26/20 15:02	08/27/20 16:23	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531654	1	08/25/20 06:37	08/25/20 06:37	ACG	Mt. Juliet, TN

MW-10I L1253450-06 GW

				Collected by Mack/Vishal	Collected date/time 08/18/20 16:08	Received date/time 08/21/20 09:31
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531462	1	08/26/20 15:02	08/27/20 16:26	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531654	1	08/25/20 06:56	08/25/20 06:56	ACG	Mt. Juliet, TN

MW-13I L1253450-07 GW

				Collected by Mack/Vishal	Collected date/time 08/18/20 14:06	Received date/time 08/21/20 09:31
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531462	1	08/26/20 15:02	08/27/20 15:49	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531654	1	08/25/20 07:16	08/25/20 07:16	ACG	Mt. Juliet, TN



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L1253450

DATE/TIME:

08/31/20 08:04

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



DUP-1 L1253450-08 GW

				Collected by Mack/Vishal	Collected date/time 08/18/20 00:00	Received date/time 08/21/20 09:31
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531462	1	08/26/20 15:02	08/27/20 16:28	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531654	1	08/25/20 07:36	08/25/20 07:36	ACG	Mt. Juliet, TN

DUP-2 L1253450-09 GW

				Collected by Mack/Vishal	Collected date/time 08/18/20 00:00	Received date/time 08/21/20 09:31
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531462	1	08/26/20 15:02	08/27/20 16:31	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531654	1	08/25/20 07:55	08/25/20 07:55	ACG	Mt. Juliet, TN

MW-11I L1253450-10 GW

				Collected by Mack/Vishal	Collected date/time 08/19/20 09:01	Received date/time 08/21/20 09:31
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531462	1	08/26/20 15:02	08/27/20 16:34	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531654	1	08/25/20 08:15	08/25/20 08:15	ACG	Mt. Juliet, TN

MW-12S L1253450-11 GW

				Collected by Mack/Vishal	Collected date/time 08/19/20 10:20	Received date/time 08/21/20 09:31
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531462	1	08/26/20 15:02	08/27/20 16:37	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531654	1	08/25/20 08:35	08/25/20 08:35	ACG	Mt. Juliet, TN

MW-12I L1253450-12 GW

				Collected by Mack/Vishal	Collected date/time 08/19/20 11:16	Received date/time 08/21/20 09:31
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531462	1	08/26/20 15:02	08/27/20 16:40	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531654	1	08/25/20 08:55	08/25/20 08:55	ACG	Mt. Juliet, TN

MW-17S L1253450-13 GW

				Collected by Mack/Vishal	Collected date/time 08/19/20 12:32	Received date/time 08/21/20 09:31
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531462	1	08/26/20 15:02	08/27/20 16:43	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531771	1	08/25/20 13:51	08/25/20 13:51	ADM	Mt. Juliet, TN

MW-17I L1253450-14 GW

				Collected by Mack/Vishal	Collected date/time 08/19/20 13:05	Received date/time 08/21/20 09:31
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1531462	1	08/26/20 15:02	08/27/20 16:51	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531771	1	08/25/20 14:12	08/25/20 14:12	ADM	Mt. Juliet, TN



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L1253450

DATE/TIME:

08/31/20 08:04

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MW-14S L1253450-15 GW

				Collected by Mack/Vishal	Collected date/time 08/19/20 14:52	Received date/time 08/21/20 09:31	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Metals (ICP) by Method 6010B	WG1531462	1	08/26/20 15:02	08/27/20 16:54	TRB	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531771	1	08/25/20 14:32	08/25/20 14:32	ADM	Mt. Juliet, TN	

MW-16I L1253450-16 GW

				Collected by Mack/Vishal	Collected date/time 08/19/20 15:57	Received date/time 08/21/20 09:31	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Metals (ICP) by Method 6010B	WG1531462	1	08/26/20 15:02	08/27/20 16:57	TRB	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531771	1	08/25/20 14:52	08/25/20 14:52	ADM	Mt. Juliet, TN	

TRIP BLANK L1253450-17 GW

				Collected by Mack/Vishal	Collected date/time 08/19/20 00:00	Received date/time 08/21/20 09:31	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1531771	1	08/25/20 10:08	08/25/20 10:08	ACG	Mt. Juliet, TN	

¹ Cp² Tc³ Ss⁴ Cn⁵ Su⁶ Gl⁷ Al⁸ Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Heather J Wagner
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Su

⁶ Gl

⁷ Al

⁸ Sc

Report Revision History

Level II Report - Version 1: 08/28/20 22:54



6010B Metals (ICP)

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253450-02	SDG:	L1253450
Client Sample ID:	MW-01I	Collected Date/Time:	08/18/20 11:35
Lab File ID:	20200827160906	Received Date/Time:	08/21/20 09:31
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:02
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 16:09
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	0.304		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253450-03	SDG:	L1253450
Client Sample ID:	MW-01D	Collected Date/Time:	08/18/20 12:28
Lab File ID:	20200827161727	Received Date/Time:	08/21/20 09:31
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:02
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 16:17
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	0.244		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253450-04	SDG:	L1253450
Client Sample ID:	MW-5I	Collected Date/Time:	08/18/20 16:58
Lab File ID:	20200827162017	Received Date/Time:	08/21/20 09:31
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:02
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 16:20
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	0.335		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253450-05	SDG:	L1253450
Client Sample ID:	MW-10S	Collected Date/Time:	08/18/20 15:04
Lab File ID:	20200827162315	Received Date/Time:	08/21/20 09:31
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:02
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 16:23
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	3.46		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253450-06	SDG:	L1253450
Client Sample ID:	MW-10I	Collected Date/Time:	08/18/20 16:08
Lab File ID:	20200827162602	Received Date/Time:	08/21/20 09:31
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:02
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 16:26
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	2.38		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253450-07	SDG:	L1253450
Client Sample ID:	MW-13I	Collected Date/Time:	08/18/20 14:06
Lab File ID:	20200827154936	Received Date/Time:	08/21/20 09:31
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:02
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 15:49
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	0.865		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253450-08	SDG:	L1253450
Client Sample ID:	DUP-1	Collected Date/Time:	08/18/20 00:00
Lab File ID:	20200827162853	Received Date/Time:	08/21/20 09:31
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:02
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 16:28
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	0.324		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253450-09	SDG:	L1253450
Client Sample ID:	DUP-2	Collected Date/Time:	08/18/20 00:00
Lab File ID:	20200827163138	Received Date/Time:	08/21/20 09:31
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:02
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 16:31
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	1.73		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253450-10	SDG:	L1253450
Client Sample ID:	MW-11I	Collected Date/Time:	08/19/20 09:01
Lab File ID:	20200827163430	Received Date/Time:	08/21/20 09:31
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:02
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 16:34
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	0.135		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253450-11	SDG:	L1253450
Client Sample ID:	MW-12S	Collected Date/Time:	08/19/20 10:20
Lab File ID:	20200827163728	Received Date/Time:	08/21/20 09:31
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:02
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 16:37
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	0.503		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253450-12	SDG:	L1253450
Client Sample ID:	MW-12I	Collected Date/Time:	08/19/20 11:16
Lab File ID:	20200827164025	Received Date/Time:	08/21/20 09:31
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:02
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 16:40
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	0.637		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253450-13	SDG:	L1253450
Client Sample ID:	MW-17S	Collected Date/Time:	08/19/20 12:32
Lab File ID:	20200827164316	Received Date/Time:	08/21/20 09:31
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:02
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 16:43
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	3.57		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253450-14	SDG:	L1253450
Client Sample ID:	MW-17I	Collected Date/Time:	08/19/20 13:05
Lab File ID:	20200827165141	Received Date/Time:	08/21/20 09:31
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:02
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 16:51
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	0.178		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253450-15	SDG:	L1253450
Client Sample ID:	MW-14S	Collected Date/Time:	08/19/20 14:52
Lab File ID:	20200827165422	Received Date/Time:	08/21/20 09:31
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:02
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 16:54
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	2.05		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253450-16	SDG:	L1253450
Client Sample ID:	MW-16I	Collected Date/Time:	08/19/20 15:57
Lab File ID:	20200827165709	Received Date/Time:	08/21/20 09:31
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:02
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 16:57
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.00440	0.0100
Iron,Dissolved	7439-89-6	1.47		0.0458	0.100
Lead,Dissolved	7439-92-1	ND		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3564681-1	SDG:	L1253450
Client Sample ID:	BLANK	Collected Date/Time:	
Lab File ID:	20200827154411	Received Date/Time:	
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:01
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 15:44
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	U		0.00440	0.0100
Iron,Dissolved	7439-89-6	U		0.0458	0.100
Lead,Dissolved	7439-92-1	U		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3564681-2	SDG:	L1253450
Client Sample ID:	LCS	Collected Date/Time:	
Lab File ID:	20200827154648	Received Date/Time:	
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:01
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 15:46
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	0.929		0.00440	0.0100
Iron,Dissolved	7439-89-6	9.34		0.0458	0.100
Lead,Dissolved	7439-92-1	0.947		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3564681-4	SDG:	L1253450
Client Sample ID:	MS	Collected Date/Time:	08/18/20 14:06
Lab File ID:	20200827155503	Received Date/Time:	08/21/20 09:31
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:02
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 15:55
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	0.948		0.00440	0.0100
Iron,Dissolved	7439-89-6	10.2		0.0458	0.100
Lead,Dissolved	7439-92-1	0.950		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3564681-5	SDG:	L1253450
Client Sample ID:	MSD	Collected Date/Time:	08/18/20 14:06
Lab File ID:	20200827155737	Received Date/Time:	08/21/20 09:31
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:02
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 15:57
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	0.954		0.00440	0.0100
Iron,Dissolved	7439-89-6	10.2		0.0458	0.100
Lead,Dissolved	7439-92-1	0.953		0.00295	0.00600

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3564681-3	SDG:	L1253450
Client Sample ID:	SD	Collected Date/Time:	08/18/20 14:06
Lab File ID:	20200827155228	Received Date/Time:	08/21/20 09:31
Instrument ID:	ICP12	Preparation Date/Time:	08/26/20 15:02
Analytical Batch:	WG1531462	Analysis Date/Time:	08/27/20 15:52
Dilution Factor:	5	Prep Method:	3015
Analytical Method:	6010B	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Arsenic,Dissolved	7440-38-2	ND		0.0220	0.0500
Iron,Dissolved	7439-89-6	0.909		0.229	0.500
Lead,Dissolved	7439-92-1	ND		0.0148	0.0300

SDG:	L1253450	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A
Concentration Units:	mg/l		

Analyte	Sample ID:	ICV				CCV				ICVLL			
		ICP120827201422				ICP120827201427				ICP120827201433			
		True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1		0.9670013	96.70	0.592000	1	0.9735756	97.40	0.626000	0.01	0.007378441	73.80	33.500000
IRON	10		9.751133	97.50	0.125000	10	9.361351	93.60	0.211000	0.10	0.09249522	92.50	1.530000
LEAD	1		0.9819185	98.20	0.729000	0.50	0.4712555	94.30	0.722000	0.0050	0.004302824	86.10	6.050000

SDG:	L1253450	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A
Concentration Units:	mg/l		

Analyte	Sample ID:	ICVLL				CCV				CCV			
		ICP120827201437				ICP120827201611				ICP120827201645			
		True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	0.01	0.01059888	106	35.500000	1	0.9762474	97.60	0.911000	1	0.9660175	96.60	0.661000	
IRON	0.10	0.09162604	91.60	3.080000	10	9.409356	94.10	0.152000	10	9.301875	93	0.062500	
LEAD	0.0050	0.004181416	83.60	31.700000	0.50	0.4718952	94.40	0.583000	0.50	0.4691533	93.80	0.373000	

SDG:

Instrument ID:

Analytical Method:

Concentration Units:

L1253450
ICP12
6010B
mg/l

Calibration (begin) date/time:

Calibration (end) date/time:

Analytical Run:

08/27/20 13:59
08/27/20 14:19
082720ICP12A

Analyte	Sample ID:	CCV				CCVLL			
		ICP120827201659				ICP120828200223			
		True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1		0.9719821	97.20	2.120000	0.01	0.01335363	134	29.000000
IRON	10		9.258957	92.60	0.240000	0.10	0.08962996	89.60	1.950000
LEAD	0.50		0.4672367	93.40	0.615000	0.0050	0.005623959	112	35.100000



SDG: L1253450
Instrument ID: ICP12
Analytical Method: 6010B

Calibration (begin) date/time: 08/27/20 13:59
Calibration (end) date/time: 08/27/20 14:19
Analytical Run: 082720ICP12A

	Sample ID:	ICB Result	ICB Qual	CCB Result	CCB Qual	CCB Result	CCB Qual	CCB Result	CCB Qual
	File ID:	20200827142503		20200827143035		20200827161437		20200827164845	
Analyte		mg/l		mg/l		mg/l		mg/l	
ARSENIC		-0.003148961	U	0.001310652	U	0.002693467	U	0.00321596	U
IRON		0.002025544	U	0.001974428	U	-0.0009431361	U	0.0006924898	U
LEAD		0.0009513575	U	0.0007916133	U	-0.001208065	U	0.0005382782	U

SDG:	L1253450	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A

	Sample ID: CCB Result	CCB Qual	BLANK Result	BLANK Qual
	File ID: 20200827170242		20200827154411	
Analyte	mg/l		mg/l	
ARSENIC	-0.0004563414	U	ND	
IRON	0.0003964285	U	ND	
LEAD	0.001080691	U	ND	



4-IN

INTERFERENCE CHECK SAMPLE

SDG: L1253450
Instrument ID: ICP12
Instrument Run: 082720ICP12A

Analytical Method: 6010B
Date: 08/27/20 14:45

Analyte	True	Found		True	Found	
	ICSA mg/l	ICSA mg/l	ICSA % Rec.	ICSAB mg/l	ICSAB mg/l	ICSAB % Rec.
ALUMINUM	500	494.8187	99	500	498.0267	99.60
ANTIMONY	0	0.5018981		0.50	0.509312	102
ARSENIC	0	0.5154195		0.50	0.4998643	100
BARIUM	0	0.5031974		0.50	0.4973526	99.50
BERYLLIUM	0	0.4938548		0.50	0.4895381	97.90
BORON	0	0.9524743		1	0.9472133	94.70
CADMIUM	0	1.074321		1	1.055923	106
CALCIUM	500	495.2018	99	500	496.3259	99.30
CERIUM	0	0.6764113		0	0.6824629	
CHROMIUM	0	0.4810544		0.50	0.4714307	94.30
COBALT	0	0.4983412		0.50	0.4895509	97.90
COPPER	0	0.5384941		0.50	0.5336634	107
IRON	200	197.8626	98.90	200	198.7005	99.40
LANTHANUM	0	-0.00800031		0	-0.008664113	
LEAD	0	0.9390283		1	0.9292776	92.90
LITHIUM	0	0.00576609		0	0.006603492	
MAGNESIUM	500	496.9866	99.40	500	504.6906	101
MANGANESE	0	0.4762269		0.50	0.4684453	93.70
MOLYBDENUM	0	0.5039157		0.50	0.4953084	99.10
NICKEL	0	0.9766898		1	0.9630036	96.30
PHOSPHORUS	0	0.01239431		0	0.006767591	
POTASSIUM	0	-0.09096178		0	-0.0844097	
SELENIUM	0	0.5272465		0.50	0.5097133	102
SILICON	0	0.9498153		1	0.9382829	93.80
SILVER	0	1.081443		1	1.067261	107
SODIUM	0	-0.01779349		0	0.002850245	
STRONTIUM	0	0.00463659		0	0.004609971	
SULFUR	0	0.02928118		0	0.03287973	
THALLIUM	0	0.4481429		0.50	0.4489661	89.80
TIN	0	0.4677219		0.50	0.4703778	94.10
TITANIUM	0	0.4967201		0.50	0.4912955	98.30
VANADIUM	0	0.487766		0.50	0.4854172	97.10
ZINC	0	0.9189891		1	0.9007225	90.10

ICSA Limits: 80 - 120

ICSAB Limits: 80 - 120



4-IN

INTERFERENCE CHECK SAMPLE

SDG: L1253450
Instrument ID: ICP12
Instrument Run: 082720ICP12A

Analytical Method: 6010B
Date: 08/27/20 21:41

Analyte	True	Found		True	Found	
	ICSA mg/l	ICSA mg/l	ICSA % Rec.	ICSAB mg/l	ICSAB mg/l	ICSAB % Rec.
ALUMINUM	500	477.7909	95.60	500	481.0834	96.20
ANTIMONY	0	0.2228153		0.50	0.5047722	101
ARSENIC	0	0.205354		0.50	0.4822049	96.40
BARIUM	0	0.2166044		0.50	0.4853851	97.10
BERYLLIUM	0	0.2109572		0.50	0.4724645	94.50
BORON	0	0.3691667		1	0.9044571	90.40
CADMIUM	0	0.4670335		1	1.046251	105
CALCIUM	500	476.04	95.20	500	476.4572	95.30
CERIUM	0	0.6893226		0	0.6757407	
CHROMIUM	0	0.2080416		0.50	0.4654466	93.10
COBALT	0	0.2126393		0.50	0.4759378	95.20
COPPER	0	0.2342741		0.50	0.5182065	104
IRON	200	188.69	94.30	200	190.2328	95.10
LANTHANUM	0	-0.008582332		0	-0.01047445	
LEAD	0	0.385771		1	0.900837	90.10
LITHIUM	0	0.006323874		0	0.006426555	
MAGNESIUM	500	473.9803	94.80	500	476.0164	95.20
MANGANESE	0	0.2094922		0.50	0.4624031	92.50
MOLYBDENUM	0	0.2178035		0.50	0.4872375	97.40
NICKEL	0	0.418066		1	0.9332614	93.30
PHOSPHORUS	0	0.01185339		0	0.01107251	
POTASSIUM	0	-0.09287058		0	-0.09717159	
SELENIUM	0	0.244074		0.50	0.5022808	100
SILICON	0	0.4158021		1	0.9293542	92.90
SILVER	0	0.4823273		1	1.071474	107
SODIUM	0	-0.01072876		0	0.005829304	
STRONTIUM	0	0.004327945		0	0.004476589	
SULFUR	0	0.05500941		0	0.05466828	
THALLIUM	0	0.1850144		0.50	0.4333908	86.70
TIN	0	0.197973		0.50	0.4547468	90.90
TITANIUM	0	0.2092924		0.50	0.4761061	95.20
VANADIUM	0	0.2116209		0.50	0.4656573	93.10
ZINC	0	0.3732608		1	0.8677297	86.80

ICSA Limits: 80 - 120

ICSAB Limits: 80 - 120

ACCOUNT:

Patriot Engineering - Ft. Wayne

PROJECT:

16-1731-04E

SDG:

L1253450

DATE/TIME:

08/28/20 22:53

PAGE:

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MATRIX SPIKE /
MATRIX SPIKE DUPLICATE RECOVERY
L1253450-02,03,04,05,06,07,08,09,10,11,12,13,14,15,16

MS Sample / File ID:	R3564681-4 / 20200827155503	SDG:	L1253450
MSD Sample / File ID:	R3564681-5 / 20200827155737	Analytical Batch:	WG1531462
OS Sample / File ID:	L1253450-07 / 20200827154936	Matrix:	GW
Instrument ID:	ICP12		
Analytical Method:	6010B		

Analyte	Spike Amount <i>mg/l</i>	OS Result <i>mg/l</i>	MS Result <i>mg/l</i>	MSD Result <i>mg/l</i>	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD %	RPD Limits %
Arsenic,Dissolved	1.00	ND	0.948	0.954	94.2	94.7	1	75.0 - 125	0.573	20
Iron,Dissolved	10.0	0.865	10.2	10.2	93.4	93.0	1	75.0 - 125	0.400	20
Lead,Dissolved	1.00	ND	0.950	0.953	95.0	95.3	1	75.0 - 125	0.361	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY
L1253450-02,03,04,05,06,07,08,09,10,11,12,13,14,15,16

LCS Sample / File ID:	R3564681-2 / 20200827154648	SDG:	L1253450
LCSD Sample / File ID:		Analytical Batch:	WG1531462
Instrument ID:	ICP12	Dilution Factor:	1
Analytical Method:	6010B	Matrix:	GW

Analyte	Spike Amount <i>mg/l</i>	LCS Result <i>mg/l</i>	LCSD Result	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD %	RPD Limits %
Arsenic,Dissolved	1.00	0.929		92.9		80.0 - 120		
Iron,Dissolved	10.0	9.34		93.4		80.0 - 120		
Lead,Dissolved	1.00	0.947		94.7		80.0 - 120		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

ICP AND ICP/MS
SERIAL DILUTIONS

L1253450-02,03,04,05,06,07,08,09,10,11,12,13,14,15,16

SD Sample / File ID:	R3564681-3 / 20200827155228	SDG:	L1253450
OS Sample / File ID:	L1253450-07 / 20200827154936	Analytical Batch:	WG1531462
Lab File ID:	20200827155228	Dilution Factor:	5
Instrument ID:	ICP12	Matrix:	GW
Analytical Method:	6010B		

Analyte	OS Result <i>mg/l</i>	SD Result <i>mg/l</i>	RPD %	RPD Limits %
Arsenic,Dissolved	ND	ND	0.000	10
Iron,Dissolved	0.865	0.909	5.16	10
Lead,Dissolved	ND	ND	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Lab Sample IDs:	L1253450-02,03,04,05,06,07,08,09,10,11,12,13,14,15,16	Analytical Method:	6010B
Matrix:	GW	Prep Method:	3015

Analyte	CAS	Wavelength	Mass	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Iron,Dissolved	7439-89-6	189.0420	259.94	0.0458	0.10
Lead,Dissolved	7439-92-1	189.0420	220.3530	0.002950	0.0060
Arsenic,Dissolved	7440-38-2	189.0420	189.0420	0.0044	0.01



10A-IN

INTERELEMENT CORRECTION FACTORS

SDG: L1253450
Instrument ID: ICP12

Analytical Method: 6010B
Date: 01/25/20 14:08

Analyte	Wavelength nm	ARSENIC 189.0420	CALCIUM 317.9330	Ce 535.3530	CHROMIUM 267.7160	COBALT 228.6160	COPPER 324.7540	IRON 259.94
ALUMINUM	308.2150							
ANTIMONY	206.8330				-0.00074434			
ARSENIC	189.0420							
BARIUM	233.5270							-0.00011317
BERYLLIUM	313.0420							
CADMIUM	228.8020	-0.27876549						
COBALT	228.6160							
IRON	271.4410					-0.00018664		
LEAD	220.3530			-0.00067708			-0.00004335	
LITHIUM	670.7840		-0.00032182					
SELENIUM	196.09				-0.00001854			
THALLIUM	190.8560					-0.00016749		



SDG: L1253450

Analytical Method:

6010B

Instrument ID: ICP12

Date:

01/25/20 14:08

Analyte	Wavelength nm	La 333.7490	MOLYBDENUM 202.03	SILICON 251.6110	TITANIUM 334.9410	VANADIUM 292.4020
ALUMINUM	308.2150		-0.00106401			-0.00115081
ANTIMONY	206.8330					
ARSENIC	189.0420	-0.01388199	-0.00017103			
BARIUM	233.5270					
BERYLLIUM	313.0420					-0.02889282
CADMIUM	228.8020					
COBALT	228.6160				-0.00200552	
IRON	271.4410					
LEAD	220.3530	-0.00019448		-0.00011965		
LITHIUM	670.7840					
SELENIUM	196.09					
THALLIUM	190.8560					



SDG: L1253450
Instrument ID: ICP12

Analytical Method: 6010B
Date: 03/25/20 13:32

Analyte	LDR <i>ppm</i>
ALUMINUM	500
ANTIMONY	10
ARSENIC	50
BARIUM	50
BERYLLIUM	10
BORON	50
CADMIUM	10
CALCIUM	1000
CHROMIUM	50
COBALT	50
COPPER	50
IRON	500
LEAD	100
LITHIUM	10
MAGNESIUM	1000
MANGANESE	20
MOLYBDENUM	20
NICKEL	50
PHOSPHORUS	100
POTASSIUM	500
SELENIUM	10
SILICON	10
SILVER	10
SODIUM	1000
STRONTIUM	20
SULFUR	200
THALLIUM	10
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20



12-IN

ANALYSIS LOG

SDG:	L1253450	Analytical Method:	6010B
Instrument ID:	ICP12	Calibration Start Date:	08/27/20 13:59
Analytical Run:	082720ICP12A	Calibration End Date:	08/27/20 14:19

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP120827201356	20200827135618	08/27/20 13:56		
ICV	ICP120827201422	20200827142211	08/27/20 14:22		
ICB	ICP120827201425	20200827142503	08/27/20 14:25		
CCV	ICP120827201427	20200827142740	08/27/20 14:27		
CCB	ICP120827201430	20200827143035	08/27/20 14:30		
ICVLL	ICP120827201433	20200827143329	08/27/20 14:33		
ICVLL	ICP120827201437	20200827143744	08/27/20 14:37		
ICSA	ICP120827201445	20200827144514	08/27/20 14:45		
ICSAB	ICP120827201448	20200827144807	08/27/20 14:48		
BLANK	R3564681-1	20200827154411	08/27/20 15:44	1	WG1531462
LCS	R3564681-2	20200827154648	08/27/20 15:46	1	WG1531462
MW-13I	L1253450-07	20200827154936	08/27/20 15:49	1	WG1531462
SD	R3564681-3	20200827155228	08/27/20 15:52	5	WG1531462
MS	R3564681-4	20200827155503	08/27/20 15:55	1	WG1531462
MSD	R3564681-5	20200827155737	08/27/20 15:57	1	WG1531462
MW-01I	L1253450-02	20200827160906	08/27/20 16:09	1	WG1531462
CCV	ICP120827201611	20200827161143	08/27/20 16:11		
CCB	ICP120827201614	20200827161437	08/27/20 16:14		
MW-01D	L1253450-03	20200827161727	08/27/20 16:17	1	WG1531462
MW-5I	L1253450-04	20200827162017	08/27/20 16:20	1	WG1531462
MW-10S	L1253450-05	20200827162315	08/27/20 16:23	1	WG1531462
MW-10I	L1253450-06	20200827162602	08/27/20 16:26	1	WG1531462
DUP-1	L1253450-08	20200827162853	08/27/20 16:28	1	WG1531462
DUP-2	L1253450-09	20200827163138	08/27/20 16:31	1	WG1531462
MW-11I	L1253450-10	20200827163430	08/27/20 16:34	1	WG1531462
MW-12S	L1253450-11	20200827163728	08/27/20 16:37	1	WG1531462
MW-12I	L1253450-12	20200827164025	08/27/20 16:40	1	WG1531462
MW-17S	L1253450-13	20200827164316	08/27/20 16:43	1	WG1531462
CCV	ICP120827201645	20200827164552	08/27/20 16:45		
CCB	ICP120827201648	20200827164845	08/27/20 16:48		
MW-17I	L1253450-14	20200827165141	08/27/20 16:51	1	WG1531462
MW-14S	L1253450-15	20200827165422	08/27/20 16:54	1	WG1531462
MW-16I	L1253450-16	20200827165709	08/27/20 16:57	1	WG1531462
CCV	ICP120827201659	20200827165949	08/27/20 16:59		
CCB	ICP120827201702	20200827170242	08/27/20 17:02		
ICSA	ICP120827202141	20200827214121	08/27/20 21:41		
ICSAB	ICP120827202144	20200827214415	08/27/20 21:44		
CCVLL	ICP120828200223	20200828022322	08/28/20 02:23		

SDG:	L1253450	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A

Analyte	Std Conc mg/l	Result mg/l	Rec. %	Std Conc mg/l	Result mg/l	Rec. %
ARSENIC	0.01	.008118308	81.20	0.50	.4838186	96.80
IRON	0.10	.09354632	93.50	0.50	.4968269	99.40
LEAD	0.0050	.005023699	100	0.50	.4824479	96.50
File ID:		20200827135912			20200827140152	

SDG:	L1253450	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A

Analyte	Std Conc mg/l	Result mg/l	Rec. %	Std Conc mg/l	Result mg/l	Rec. %
ARSENIC	1	.9808191	98.10	2	2.013645	101
IRON	1	1.002552	100	2	2.006553	100
LEAD	1	.9829918	98.30	2	2.012892	101
File ID:		20200827140430			20200827140704	

SDG:	L1253450	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A

Analyte	Std Conc mg/l	Result mg/l	Rec. %
ARSENIC			
IRON	10	9.998657	100
LEAD			
File ID:	20200827140950		

SDG:	L1253450	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A

Analyte	Std Conc mg/l	Result mg/l	Rec. %	Std Conc mg/l	Result mg/l	Rec. %
IRON	10	11.09956	111	100	101.3835	101
File ID:		20200827140950			20200827141256	

SDG:	L1253450	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A

Analyte	Std Conc mg/l	Result mg/l	Rec. %
IRON	200	199.2532	99.60
File ID:		20200827141609	

INITIAL
CALIBRATION

SDG:	L1253450	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.999855	180.3615	-1.281708
IRON	259.94	8	5	0.999999	1118.334	6.580916
LEAD	220.353	8	5	0.999865	647.6705	2.41995

Calibration Type
8 = Linear Regression Forced through Blank
Weightage
5 = None

INITIAL
CALIBRATION

SDG:	L1253450	Calibration (begin) date/time:	08/27/20 13:59
Instrument ID:	ICP12	Calibration (end) date/time:	08/27/20 14:19
Analytical Method:	6010B	Analytical Run:	082720ICP12A

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
IRON	271.441	8	5	0.999929	85.60617	1.889283

Calibration Type
8 = Linear Regression Forced through Blank
Weightage
5 = None

Sample ID: CALBLK Units: mg/l

Analyzed: 08/27/20 13:56 Sequence: 2 Standard ID: 20F30764

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10686.67	10722.62	10679.31	10658.08
YTTRIUM	360.073	Axial	241388.4	240716.8	242023.4	241425.0
YTTRIUM	360.073	Radial	30569.57	30403.57	30722.74	30582.40
INDIUM	230.606	Axial	2972.197	2982.282	2969.090	2965.219

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	2.213397	5.400656	4.526007	-3.286471
ANTIMONY	206.833	Axial	-0.05349676	0.08909109	0.3057029	-0.5552843
ARSENIC	189.042	Axial	-1.28175	-1.160027	-1.737826	-0.9474225
BARIUM	233.527	Axial	-2.06045	-2.498612	-1.674986	-2.007765
BERYLLIUM	313.042	Radial	16.21719	17.77093	13.27618	17.60446
BORON	249.678	Radial	6.645025	7.657733	3.038122	9.239221
CADMIUM	228.802	Axial	0.9369713	-0.3680873	1.275809	1.903192
CALCIUM	317.933	Radial	352.6858	346.0962	354.7944	357.1666
CALCIUM	373.690	Radial	168.8863	170.1348	170.0100	166.5141
CERIUM	535.353	Radial	-60.0549	-53.47927	-57.93241	-68.75312
CHROMIUM	267.716	Axial	7.111111	2.166667	5.472222	13.69444
COBALT	228.616	Axial	-0.6041893	-0.5885432	-0.9927175	-0.2313072
COPPER	324.754	Axial	132.4167	135.7083	131.9583	129.5833
IRON	259.940	Radial	6.575662	8.656567	5.882027	5.188391
IRON	271.441	Radial	1.886688	3.828866	2.705177	-0.8739804
LANTHANUM	333.749	Radial	3.088989	1.193053	6.991843	1.082071
LEAD	220.353	Axial	2.421977	3.485732	2.440647	1.339551
LITHIUM	670.784	Radial	-20.0474	-28.62078	-1.123689	-30.39787
MAGNESIUM	279.079	Radial	-2.81615	-6.076244	-2.538705	0.1664724
MANGANESE	257.610	Axial	20.01389	20.6250	19.29167	20.1250
MOLYBDENUM	202.030	Axial	0.4069636	0.6329817	0.6766500	-0.08874099
NICKEL	231.604	Axial	-1.14633	-0.2554137	-2.262895	-0.9206877
PHOSPHORUS	177.495	Axial	0.3251701	-0.5774570	1.286744	0.2662230
POTASSIUM	766.490	Radial	39.63432	47.73597	36.58232	34.58465
SELENIUM	196.090	Axial	0.7953778	1.099389	0.4547976	0.8319468
SILICON	251.611	Axial	66.750	60.1250	65.91667	74.20833
SILVER	328.068	Axial	-4.54166	-3.75	-10.54167	0.6666667
SODIUM	589.592	Radial	231.6325	244.0902	239.3041	211.5032
SODIUM	818.326	Radial	-78.5888	-73.62244	-70.08490	-92.05926
STRONTIUM	421.552	Radial	49.33134	52.48044	55.80989	39.70368
SULFUR	182.034	Axial	1.079813	0.3553581	1.464226	1.419856
THALLIUM	190.856	Axial	0.6027696	0.3552271	0.9982299	0.4548517
TIN	189.989	Axial	0.009916600	-0.4532835	0.1714315	0.3116019
TITANIUM	334.941	Radial	12.30983	11.03903	16.48505	9.405413
VANADIUM	292.402	Radial	-8.23431	-11.23812	-6.721583	-6.743248
ZINC	206.200	Axial	54.40392	55.39145	54.20965	53.61065

Sample ID: ICV Units: mg/l

Analyzed: 08/27/20 14:22 Sequence: 11 Standard ID: 20G29031

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	10445.12	10456.75	10442.34	10439.36	10442.01
YTTRIUM	360.073	Axial	235161.0	235090.4	234492.4	235194.8	235866.6
YTTRIUM	360.073	Radial	30482.90	30553.54	30550.02	30507.20	30320.83
INDIUM	230.606	Axial	2837.452	2838.272	2835.198	2836.612	2839.727

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3	Conc. Rep4
ALUMINUM	308.215	Radial	2689.691	10.09271	10.05743	10.14796	10.13015	10.03531
ANTIMONY	206.833	Axial	242.7087	0.9647787	0.9624730	0.9693415	0.9660212	0.9612792
ARSENIC	189.042	Axial	169.2147	0.9670013	0.9656221	0.9645080	0.9753661	0.9625091
BARIUM	233.527	Axial	4011.986	1.012799	1.014685	1.011196	1.013694	1.011622
BERYLLIUM	313.042	Radial	105292.0	0.9937092	0.9916977	0.9946707	0.9961095	0.9923590
BORON	249.678	Radial	780.0504	1.007433	1.003976	1.008056	1.009761	1.007940
CADMIUM	228.802	Axial	4431.255	0.9906881	0.9939088	0.9885642	0.9876808	0.9925984
CALCIUM	317.933	Radial	22336.14	9.919706	9.925185	9.939472	9.914217	9.899950
CHROMIUM	267.716	Axial	6591.548	0.9930665	0.9922192	0.9940947	0.9912774	0.9946747
COBALT	228.616	Axial	3216.452	0.9902388	0.9929040	0.9909762	0.9909657	0.9861092
COPPER	324.754	Axial	18082.20	0.9743750	0.9732958	0.9777316	0.9728360	0.9736364
IRON	259.940	Radial	10880.70	9.751133	9.756881	9.763870	9.748309	9.735470
LEAD	220.353	Axial	609.4381	0.9819185	0.9722194	0.9816777	0.9891401	0.9846368
LITHIUM	670.784	Radial	11102.32	0.9742943	0.9706175	0.9756297	0.9754592	0.9754709
MAGNESIUM	279.079	Radial	1222.109	9.944442	9.944865	9.958784	9.915305	9.958815
MANGANESE	257.610	Axial	64881.45	0.9822387	0.9818774	0.9824565	0.9816005	0.9830205
MOLYBDENUM	202.030	Axial	1408.803	1.012074	1.011986	1.013466	1.014258	1.008584
NICKEL	231.604	Axial	1664.314	0.9785712	0.9824457	0.9776048	0.9780237	0.9762104
PHOSPHORUS	177.495	Axial	199.2536	0.9772537	0.9715955	0.9736058	0.9828765	0.9809371
POTASSIUM	766.490	Radial	5101.214	9.767402	9.803494	9.775693	9.753206	9.737215
SELENIUM	196.090	Axial	129.3776	0.9652736	0.9568488	0.9647320	0.9687564	0.9707571
SILICON	251.611	Axial	5515.455	1.806133	1.641589	1.757261	1.861100	1.964579
SILVER	328.068	Axial	14570.00	0.9694975	0.9673901	0.9698082	0.9699611	0.9708306
SODIUM	589.592	Radial	17539.34	9.889207	9.890800	9.918919	9.868435	9.878672
STRONTIUM	421.552	Radial	30582.13	0.3913474	0.3914638	0.3907028	0.3915614	0.3916614
SULFUR	182.034	Axial	767.2741	9.242809	9.163334	9.256058	9.285470	9.266372
THALLIUM	190.856	Axial	133.2765	0.9822403	0.9814147	0.9792771	0.9926627	0.9756068
TIN	189.989	Axial	309.0547	0.9904121	0.9828689	0.9903285	0.9983138	0.9901374
TITANIUM	334.941	Radial	8353.928	0.9959432	0.9930520	0.9936642	1.000898	0.9961584
VANADIUM	292.402	Radial	1646.925	0.9858281	0.9898814	0.9851145	0.9850869	0.9832297
ZINC	206.200	Axial	2936.730	0.9785046	0.9791534	0.9784809	0.9782197	0.9781642
CERIUM	535.353	Radial	-47.1192	0.02969931	0.02821585	-0.005709225	0.06268221	0.03360840
LANTHANUM	333.749	Radial	9.899727	0.003297327	-0.0001886306	0.005289858	0.003775512	0.004312569

Sample ID: ICB Units: mg/l

Analyzed: 08/27/20 14:25 Sequence: 12

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10600.80	10617.91	10580.20	10604.29
YTTRIUM	360.073	Axial	241409.0	242156.4	241271.7	240798.8
YTTRIUM	360.073	Radial	30725.38	30866.13	30717.59	30592.43
INDIUM	230.606	Axial	2989.129	2995.280	2980.477	2991.631

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	5.706951	0.01296676	0.01117750	0.01489201	0.01283077
ANTIMONY	206.833	Axial	4.157239	0.01648975	0.01411943	0.01638802	0.01896182
ARSENIC	189.042	Axial	-1.83458	-0.003148961	-0.005600110	-0.006119375	0.002272602
BARIUM	233.527	Axial	-1.25346	0.0001962213	0.00009223583	-0.00004463915	0.0005410674
BERYLLIUM	313.042	Radial	23.33367	0.00006569797	0.00009749058	0.00006795456	0.00003164878
BORON	249.678	Radial	5.277869	-0.001832233	0.002048759	-0.001605333	-0.005940125
CADMIUM	228.802	Axial	1.514044	0.0001283546	0.0001885428	0.0002611229	-0.00006460186
CALCIUM	317.933	Radial	97.84415	-0.1148858	-0.1137095	-0.1142921	-0.1166559
CERIUM	535.353	Radial	-75.7667	-0.03607307	-0.006925347	-0.02915200	-0.07214187
CHROMIUM	267.716	Axial	7.472222	0.00006020098	0.0002153346	-0.0002723238	0.0002375921
COBALT	228.616	Axial	-0.5491752	0.00001665682	0.0001095753	-0.0002614318	0.0002018270
COPPER	324.754	Axial	131.6111	-0.00004241458	-0.0006483030	0.0001728764	0.0003481829
IRON	259.940	Radial	8.888604	0.002025544	0.002553882	-0.0008561740	0.004378924
LANTHANUM	333.749	Radial	10.63601	0.003614908	0.002596988	0.002165758	0.006081978
LEAD	220.353	Axial	3.055106	0.0009513575	0.002858659	-0.0005158356	0.0005112493
LITHIUM	670.784	Radial	-36.9510	-0.001456258	-0.002189348	0.0002392802	-0.002418705
MAGNESIUM	279.079	Radial	-1.46804	0.01107139	-0.004795762	0.01481983	0.02319010
MANGANESE	257.610	Axial	19.08333	-0.00001150357	0.00001599695	-0.00003210115	-0.00001840652
MOLYBDENUM	202.030	Axial	1.050102	0.0004577160	0.0008829774	0.0001552942	0.0003348764
NICKEL	231.604	Axial	-2.54021	-0.0007727656	-0.001523506	-0.0007214022	-0.00007338874
PHOSPHORUS	177.495	Axial	0.2921057	-0.0001516958	0.0007380810	0.002144992	-0.003338161
POTASSIUM	766.490	Radial	12.25844	-0.05278389	-0.06110326	-0.07423739	-0.02301101
SELENIUM	196.090	Axial	0.5879090	-0.001479869	-0.008535229	0.0004146882	0.003680934
SILICON	251.611	Axial	92.16667	0.008470472	0.005486938	0.008337060	0.01158742
SILVER	328.068	Axial	-0.1388889	0.0002858350	0.0006304993	0.0002267233	0.0000002823860
SODIUM	589.592	Radial	199.4576	-0.01888993	-0.02751042	-0.02010279	-0.009056584
STRONTIUM	421.552	Radial	43.70339	-0.00007465124	-0.0001702732	0.00007874860	-0.0001324291
SULFUR	182.034	Axial	1.163493	0.001081479	0.001821713	-0.001120636	0.002543360
THALLIUM	190.856	Axial	0.9797115	0.002622619	0.008104595	0.004726665	-0.004963402
TIN	189.989	Axial	1.880032	0.005688629	0.005343073	0.007308066	0.004414749
TITANIUM	334.941	Radial	16.64501	0.0005081564	-0.0001606799	0.001193977	0.0004911724
VANADIUM	292.402	Radial	-3.00432	0.003117844	0.004417864	0.002042167	0.002893500
ZINC	206.200	Axial	1.124053	-0.01766777	-0.01766221	-0.01766085	-0.01768025

Sample ID: CCV Units: mg/l

Analyzed: 08/27/20 14:27 Sequence: 13 Standard ID: 20H10527

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10346.71	10348.03	10365.06	10327.05
YTTRIUM	360.073	Axial	231133.3	231128.7	231410.3	230861.0
YTTRIUM	360.073	Radial	30608.30	30565.83	30783.63	30475.43
INDIUM	230.606	Axial	2837.451	2845.892	2840.773	2825.688

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	2632.168	9.836226	9.814246	9.858524	9.835908
ANTIMONY	206.833	Axial	120.4180	0.4833249	0.4795743	0.4847864	0.4856139
ARSENIC	189.042	Axial	168.7699	0.9735756	0.9755915	0.9784042	0.9667310
BARIUM	233.527	Axial	1912.290	0.4876002	0.4878056	0.4872692	0.4877260
BERYLLIUM	313.042	Radial	20354.77	0.1911908	0.1906413	0.1914432	0.1914879
BORON	249.678	Radial	762.5438	0.9805703	0.9748932	0.9786297	0.9881879
CADMIUM	228.802	Axial	2193.790	0.4950254	0.4944966	0.4945873	0.4959923
CALCIUM	317.933	Radial	107452.6	48.12715	48.10835	48.09203	48.18108
CHROMIUM	267.716	Axial	6218.490	0.9457248	0.9426229	0.9458861	0.9486654
COBALT	228.616	Axial	3152.446	0.9705349	0.9695796	0.9726713	0.9693539
COPPER	324.754	Axial	17503.42	0.9595153	0.9606181	0.9576027	0.9603251
IRON	259.940	Radial	10489.02	9.361351	9.374716	9.370655	9.338682
LEAD	220.353	Axial	293.6944	0.4712555	0.4751526	0.4688760	0.4697380
LITHIUM	670.784	Radial	10771.71	0.9414609	0.9397342	0.9431837	0.9414648
MAGNESIUM	279.079	Radial	1158.755	9.391521	9.378885	9.404471	9.391207
MANGANESE	257.610	Axial	60998.59	0.9322250	0.9306347	0.9322650	0.9337753
MOLYBDENUM	202.030	Axial	344.3542	0.2495198	0.2498426	0.2489442	0.2497727
NICKEL	231.604	Axial	1622.961	0.9542715	0.9544746	0.9549771	0.9533629
PHOSPHORUS	177.495	Axial	196.6337	0.9735601	0.9698467	0.9821854	0.9686482
POTASSIUM	766.490	Radial	24685.84	47.36458	47.26844	47.39980	47.42551
SELENIUM	196.090	Axial	125.9597	0.9486076	0.9551197	0.9449086	0.9457945
SILICON	251.611	Axial	6581.377	2.180077	2.125549	2.175806	2.238877
SILVER	328.068	Axial	6944.091	0.4666128	0.4678213	0.4651154	0.4669016
SODIUM	818.326	Radial	3303.749	47.79809	47.71680	47.66868	48.00878
STRONTIUM	421.552	Radial	74803.82	0.9542138	0.9513201	0.9559989	0.9553225
SULFUR	182.034	Axial	382.7942	4.648762	4.653164	4.651164	4.641957
THALLIUM	190.856	Axial	126.0179	0.9285312	0.9247567	0.9225758	0.9382610
TIN	189.989	Axial	147.1784	0.4716347	0.4687988	0.4771551	0.4689501
TITANIUM	334.941	Radial	8213.029	0.9751020	0.9741142	0.9751310	0.9760606
VANADIUM	292.402	Radial	1608.063	0.9587685	0.9561023	0.9577070	0.9624962
ZINC	206.200	Axial	2872.127	0.9658503	0.9686272	0.9658353	0.9630882
CERIUM	535.353	Radial	-36.4945	0.05409299	0.05331510	0.02825123	0.08071263
LANTHANUM	333.749	Radial	10.64013	0.003626738	0.001860080	0.005526150	0.003493984

Sample ID: CCB Units: mg/l

Analyzed: 08/27/20 14:30 Sequence: 14

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10620.70	10621.46	10610.34	10630.28
YTTRIUM	360.073	Axial	245465.4	245790.8	245934.1	244671.4
YTTRIUM	360.073	Radial	30863.39	30880.76	30905.07	30804.35
INDIUM	230.606	Axial	2967.022	2989.850	2950.561	2960.654

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	7.434070	0.01930758	0.03006175	-0.01862635	0.04648736
ANTIMONY	206.833	Axial	2.891242	0.01150875	0.01130678	0.009282452	0.01393702
ARSENIC	189.042	Axial	-1.03857	0.001310652	-0.002203102	0.0002552442	0.005879814
BARIUM	233.527	Axial	-2.11191	-0.00001608306	-0.0002791975	0.00009147697	0.0001394713
BERYLLIUM	313.042	Radial	16.42781	0.0000004723822	-0.00002048359	-0.00001632539	0.00003822613
BORON	249.678	Radial	5.602129	-0.001435435	-0.001577346	0.0002350810	-0.002964041
CADMIUM	228.802	Axial	1.508504	0.0001264648	0.0003544614	0.00007056721	-0.00004563417
CALCIUM	317.933	Radial	92.22921	-0.1175790	-0.1181419	-0.1177663	-0.1168288
CERIUM	535.353	Radial	-70.7535	-0.02456326	-0.02197699	-0.02885675	-0.02285603
CHROMIUM	267.716	Axial	9.398148	0.0003441395	0.0003014276	0.0004265681	0.0003044229
COBALT	228.616	Axial	-0.7105366	-0.00003010948	-0.0004301944	0.0001755045	0.0001643615
COPPER	324.754	Axial	121.3472	-0.0006922866	-0.0008525859	-0.0004193823	-0.0008048917
IRON	259.940	Radial	8.873489	0.001974428	0.001041230	0.002704522	0.002177534
LANTHANUM	333.749	Radial	8.522954	0.002578661	-0.0009398263	0.006599680	0.002076130
LEAD	220.353	Axial	2.926297	0.0007916133	0.00005548188	0.0003687888	0.001950569
LITHIUM	670.784	Radial	-28.7974	-0.0007360982	-0.001463511	-0.0004099145	-0.0003348687
MAGNESIUM	279.079	Radial	-3.89624	-0.008387698	-0.01816944	-0.001141068	-0.005852590
MANGANESE	257.610	Axial	17.97222	-0.00002854595	-0.00004863988	-0.000001172470	-0.00003582548
MOLYBDENUM	202.030	Axial	1.387572	0.0006957251	0.0004044225	0.001615690	0.00006706316
NICKEL	231.604	Axial	-1.80850	-0.0003712394	-0.0006305235	0.00001622171	-0.0004994164
PHOSPHORUS	177.495	Axial	0.6549329	0.001597797	-0.002906602	0.004555181	0.003144811
POTASSIUM	766.490	Radial	30.29496	-0.01855959	0.007329518	-0.04485846	-0.01814983
SELENIUM	196.090	Axial	0.6658325	-0.0009178591	-0.004440406	-0.0003346364	0.002021465
SILICON	251.611	Axial	87.16667	0.006782105	0.003631252	0.006049990	0.01066507
SILVER	328.068	Axial	-2.19444	0.0001515124	0.00003074135	0.0001150483	0.0003087477
SODIUM	589.592	Radial	197.3692	-0.02060130	-0.01830228	-0.02228503	-0.02121658
STRONTIUM	421.552	Radial	29.23584	-0.0002605638	-0.0002471292	-0.00008274855	-0.0004518136
SULFUR	182.034	Axial	0.6063831	-0.005555751	-0.003008019	-0.01318504	-0.0004741885
THALLIUM	190.856	Axial	0.8279791	0.001563811	0.009762806	-0.006158364	0.001086992
TIN	189.989	Axial	1.197476	0.003639022	0.003196728	0.003974522	0.003745817
TITANIUM	334.941	Radial	15.32967	0.0003427068	0.0005377001	0.0006288248	-0.0001384044
VANADIUM	292.402	Radial	-6.57341	0.001030837	0.001420250	-0.001341279	0.003013540
ZINC	206.200	Axial	1.460902	-0.01755619	-0.01767714	-0.01770603	-0.01728539

Sample ID: ICVLL Units: mg/l

Analyzed: 08/27/20 14:33 Sequence: 15 Standard ID: 20H06083

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10834.52	10834.76	10840.53	10828.26
YTTRIUM	360.073	Axial	248160.7	247621.3	250940.3	245920.5
YTTRIUM	360.073	Radial	31377.28	31342.71	31735.52	31053.61
INDIUM	230.606	Axial	3026.999	3020.849	3027.188	3032.962

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	60.26453	0.2114940	0.2081960	0.2237266	0.2025594
ANTIMONY	206.833	Axial	2.144513	0.008425621	0.007570333	0.01043206	0.007274471
ARSENIC	189.042	Axial	0.04989847	0.007378441	0.005854046	0.01023232	0.006048960
BARIUM	233.527	Axial	17.02348	0.004648948	0.004803523	0.004491109	0.004652211
BERYLLIUM	313.042	Radial	212.2955	0.001794446	0.001810432	0.001732628	0.001840277
BORON	249.678	Radial	150.1137	0.1813248	0.1805637	0.1809065	0.1825043
CADMIUM	228.802	Axial	11.14736	0.002197830	0.002058062	0.002230474	0.002304953
CALCIUM	317.933	Radial	2442.367	0.9119901	0.9098736	0.9060841	0.9200127
CHROMIUM	267.716	Axial	74.12963	0.009728303	0.01002828	0.009582397	0.009574238
COBALT	228.616	Axial	30.26580	0.008910729	0.009059836	0.009284327	0.008388024
COPPER	324.754	Axial	306.5139	0.008763319	0.008203404	0.008833013	0.009253540
IRON	259.940	Radial	112.9269	0.09249522	0.09090603	0.09298028	0.09359937
LEAD	220.353	Axial	5.302976	0.004302824	0.004003428	0.004430249	0.004474794
LITHIUM	670.784	Radial	130.8889	0.01288751	0.01302933	0.01370660	0.01192660
MAGNESIUM	279.079	Radial	114.9457	0.9293937	0.9261461	0.9356429	0.9263921
MANGANESE	257.610	Axial	678.8889	0.009615034	0.009637748	0.009671372	0.009535980
MOLYBDENUM	202.030	Axial	7.358107	0.004812109	0.004671077	0.004791325	0.004973925
NICKEL	231.604	Axial	13.97671	0.008342134	0.008204597	0.008879119	0.007942686
PHOSPHORUS	177.495	Axial	18.06249	0.08397384	0.08190642	0.08711241	0.08290267
POTASSIUM	766.490	Radial	514.7641	0.8887944	0.9045763	0.8712741	0.8905327
SELENIUM	196.090	Axial	1.981882	0.008505091	0.007812962	0.01903703	-0.001334718
SILICON	251.611	Axial	694.6389	0.2002915	0.1937717	0.2002291	0.2068735
SILVER	328.068	Axial	61.56944	0.004243532	0.004239008	0.004295662	0.004195924
SODIUM	589.592	Radial	1896.650	0.9207741	0.9209632	0.9235560	0.9178031
STRONTIUM	421.552	Radial	800.7283	0.009340770	0.009305127	0.009262103	0.009455080
SULFUR	182.034	Axial	73.77827	0.8452473	0.8348488	0.8453997	0.8554932
THALLIUM	190.856	Axial	1.802074	0.008237842	0.004668540	0.009189654	0.01085533
TIN	189.989	Axial	14.74042	0.04424718	0.04427995	0.04214851	0.04631308
TITANIUM	334.941	Radial	417.7264	0.04698741	0.04650650	0.04723324	0.04722250
VANADIUM	292.402	Radial	28.27159	0.02125373	0.02029631	0.02178396	0.02168091
ZINC	206.200	Axial	185.2727	0.04256713	0.04245567	0.04259395	0.04265176
CERIUM	535.353	Radial	-53.5160	0.01501282	0.04199550	-0.02151518	0.02455813
LANTHANUM	333.749	Radial	8.983461	0.002711942	0.002912665	0.005047586	0.0001755753

Sample ID: ICVLL Units: mg/l

Analyzed: 08/27/20 14:37 Sequence: 16 Standard ID: 20H06083

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10853.04	10880.71	10822.67	10855.74
YTTRIUM	360.073	Axial	246733.5	245487.9	246340.7	248372.0
YTTRIUM	360.073	Radial	31327.83	31541.56	31114.98	31326.96
INDIUM	230.606	Axial	3059.482	3076.334	3042.035	3060.078

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	61.73292	0.2172610	0.2237790	0.2130620	0.2149419
ANTIMONY	206.833	Axial	3.200794	0.01246095	0.005206059	0.01554371	0.01663308
ARSENIC	189.042	Axial	0.6390030	0.01059888	0.01049155	0.01441216	0.006892919
BARIUM	233.527	Axial	17.58181	0.004777202	0.005072872	0.004773206	0.004485529
BERYLLIUM	313.042	Radial	213.2821	0.001806341	0.001782892	0.001853317	0.001782815
BORON	249.678	Radial	150.5047	0.1821194	0.1804172	0.1824042	0.1835367
CADMIUM	228.802	Axial	10.22040	0.001994130	0.001996380	0.001905824	0.002080186
CALCIUM	317.933	Radial	2347.798	0.8721133	0.8729833	0.8740308	0.8693257
CHROMIUM	267.716	Axial	71.250	0.009291620	0.009482812	0.009118800	0.009273247
COBALT	228.616	Axial	30.62773	0.008920411	0.009149122	0.008878804	0.008733308
COPPER	324.754	Axial	310.9444	0.009083968	0.009518309	0.008865307	0.008868287
IRON	259.940	Radial	111.7580	0.09162604	0.09077602	0.08932426	0.09477783
LEAD	220.353	Axial	5.276679	0.004181416	0.002743500	0.004449508	0.005351238
LITHIUM	670.784	Radial	137.1755	0.01345291	0.01200558	0.01447721	0.01387594
MAGNESIUM	279.079	Radial	110.8351	0.8985128	0.8650241	0.9197704	0.9107438
MANGANESE	257.610	Axial	683.9444	0.009671857	0.009652738	0.009686603	0.009676229
MOLYBDENUM	202.030	Axial	6.592716	0.004274657	0.003961468	0.004645842	0.004216663
NICKEL	231.604	Axial	15.16731	0.008909935	0.008747555	0.009209775	0.008772474
PHOSPHORUS	177.495	Axial	18.45443	0.08568326	0.08495410	0.08673284	0.08536283
POTASSIUM	766.490	Radial	520.8426	0.9015809	0.9207896	0.8893074	0.8946457
SELENIUM	196.090	Axial	2.407099	0.01156549	0.003599110	0.01473883	0.01635851
SILICON	251.611	Axial	699.4028	0.2014353	0.1951022	0.2011816	0.2080223
SILVER	328.068	Axial	61.66667	0.004243543	0.003937657	0.004510913	0.004282058
SODIUM	589.592	Radial	1872.641	0.9091492	0.9070054	0.9249788	0.8954633
STRONTIUM	421.552	Radial	779.4919	0.009090306	0.009200281	0.008903116	0.009167522
SULFUR	182.034	Axial	73.30006	0.8382088	0.8576452	0.8327825	0.8241987
THALLIUM	190.856	Axial	1.887077	0.008702965	0.005794115	0.01126910	0.009045681
TIN	189.989	Axial	15.55287	0.04619187	0.04636910	0.04573474	0.04647176
TITANIUM	334.941	Radial	418.1561	0.04711457	0.04719801	0.04739761	0.04674810
VANADIUM	292.402	Radial	25.05103	0.01941908	0.01788482	0.02013474	0.02023769
ZINC	206.200	Axial	170.2311	0.03755117	0.03743404	0.03731739	0.03790209
CERIUM	535.353	Radial	-56.2769	0.008674048	0.01270488	0.01191138	0.001405888
LANTHANUM	333.749	Radial	10.47825	0.003431719	0.004512752	0.001769422	0.004012982

Sample ID: ICSA Units: mg/l

Analyzed: 08/27/20 14:45 Sequence: 17 Standard ID: 20G22207

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9215.241	9220.508	9226.214	9199.002
YTTRIUM	360.073	Axial	206784.4	207170.6	206495.6	206687.0
YTTRIUM	360.073	Radial	28961.23	29096.27	28991.64	28795.78
INDIUM	230.606	Axial	2388.672	2389.702	2385.113	2391.203

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	125183.2	494.8187	493.9874	495.3501	495.1186
ANTIMONY	206.833	Axial	111.3727	0.5018981	0.5075027	0.4962727	0.5019188
ARSENIC	189.042	Axial	79.05733	0.5154195	0.5149119	0.5190444	0.5123022
BARIUM	233.527	Axial	1757.702	0.5031974	0.5041023	0.5005623	0.5049276
BERYLLIUM	313.042	Radial	49723.48	0.4938548	0.4932466	0.4939938	0.4943241
BORON	249.678	Radial	701.0146	0.9524743	0.9444226	0.9576577	0.9553425
CADMIUM	228.802	Axial	4239.416	1.074321	1.080761	1.059638	1.082565
CALCIUM	373.690	Radial	555528.4	495.2018	495.1144	492.5951	497.8958
CERIUM	535.353	Radial	234.5587	0.6764113	0.6250788	0.7021253	0.7020298
CHROMIUM	267.716	Axial	2820.230	0.4810544	0.4812166	0.4808881	0.4810584
COBALT	228.616	Axial	1362.436	0.4983412	0.4975202	0.4978319	0.4996716
COPPER	324.754	Axial	8838.131	0.5384941	0.5383897	0.5385828	0.5385097
IRON	271.441	Radial	16048.83	197.8626	197.6441	197.9170	198.0267
LANTHANUM	333.749	Radial	-12.8354	-0.008000310	-0.006891057	-0.009737560	-0.007372311
LEAD	220.353	Axial	490.7230	0.9390283	0.9396037	0.9389245	0.9385568
LITHIUM	670.784	Radial	43.51159	0.005766090	0.005760254	0.006141237	0.005396779
MAGNESIUM	279.079	Radial	58158.41	496.9866	496.2567	496.7980	497.9051
MANGANESE	257.610	Axial	27761.91	0.4762269	0.4765564	0.4753639	0.4767603
MOLYBDENUM	202.030	Axial	619.0324	0.5039157	0.5006490	0.5070121	0.5040859
NICKEL	231.604	Axial	1398.384	0.9766898	0.9775195	0.9776005	0.9749494
PHOSPHORUS	177.495	Axial	2.506713	0.01239431	0.006888994	0.01292557	0.01736838
POTASSIUM	766.490	Radial	-7.18008	-0.09096178	-0.06478881	-0.09900181	-0.1090947
SELENIUM	196.090	Axial	62.65891	0.5272465	0.5340836	0.5269397	0.5207161
SILICON	251.611	Axial	2586.344	0.9498153	0.9506650	0.9480816	0.9506995
SILVER	328.068	Axial	14339.16	1.081443	1.082102	1.079825	1.082402
SODIUM	589.592	Radial	189.8980	-0.01779349	-0.004685188	-0.03148018	-0.01721509
STRONTIUM	421.552	Radial	390.3859	0.004636590	0.004478196	0.004658587	0.004772987
SULFUR	182.034	Axial	3.073594	0.02928118	0.03676532	0.02127722	0.02980100
THALLIUM	190.856	Axial	51.45418	0.4481429	0.4520767	0.4354878	0.4568642
TIN	189.989	Axial	122.8722	0.4677219	0.4690006	0.4649062	0.4692590
TITANIUM	334.941	Radial	3964.322	0.4967201	0.4976323	0.4947349	0.4977930
VANADIUM	292.402	Radial	770.2320	0.4877660	0.4838374	0.4926875	0.4867731
ZINC	206.200	Axial	2436.202	0.9189891	0.9174979	0.9191956	0.9202736

Sample ID: ICSAB Units: mg/l

Analyzed: 08/27/20 14:48 Sequence: 18 Standard ID: 20G22211

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9241.553	9241.889	9220.124	9262.647
YTTRIUM	360.073	Axial	206397.4	206652.1	206106.5	206433.5
YTTRIUM	360.073	Radial	28779.09	28637.52	28774.33	28925.44
INDIUM	230.606	Axial	2384.606	2377.081	2378.082	2398.656

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	125203.0	498.0267	497.6610	498.3648	498.0543
ANTIMONY	206.833	Axial	113.3415	0.5093120	0.5126651	0.5078616	0.5074091
ARSENIC	189.042	Axial	76.85606	0.4998643	0.5095910	0.4965257	0.4934762
BARIUM	233.527	Axial	1742.231	0.4973526	0.4982556	0.4970167	0.4967854
BERYLLIUM	313.042	Radial	48979.11	0.4895381	0.4898380	0.4894333	0.4893429
BORON	249.678	Radial	692.8196	0.9472133	0.9397986	0.9494495	0.9523917
CADMIUM	228.802	Axial	4178.772	1.055923	1.045181	1.059517	1.063072
CALCIUM	373.690	Radial	553281.4	496.3259	498.8536	498.1968	491.9274
CERIUM	535.353	Radial	237.1945	0.6824629	0.6720514	0.7192271	0.6561102
CHROMIUM	267.716	Axial	2771.807	0.4714307	0.4722394	0.4730533	0.4689995
COBALT	228.616	Axial	1336.110	0.4895509	0.4906972	0.4889916	0.4889640
COPPER	324.754	Axial	8743.483	0.5336634	0.5336286	0.5319212	0.5354405
IRON	271.441	Radial	16015.37	198.7005	199.1585	198.6307	198.3123
LANTHANUM	333.749	Radial	-14.0413	-0.008664113	-0.01030952	-0.009047273	-0.006635544
LEAD	220.353	Axial	484.8154	0.9292776	0.9284213	0.9338908	0.9255209
LITHIUM	670.784	Radial	52.26979	0.006603492	0.006464562	0.006050691	0.007295224
MAGNESIUM	279.079	Radial	58688.45	504.6906	505.3371	505.7034	503.0313
MANGANESE	257.610	Axial	27386.42	0.4684453	0.4695726	0.4695317	0.4662314
MOLYBDENUM	202.030	Axial	610.1998	0.4953084	0.4931603	0.4973142	0.4954507
NICKEL	231.604	Axial	1376.427	0.9630036	0.9634517	0.9633251	0.9622341
PHOSPHORUS	177.495	Axial	1.502483	0.006767591	0.005271404	0.002574133	0.01245723
POTASSIUM	766.490	Radial	-3.94015	-0.08440970	-0.08732448	-0.1075560	-0.05834862
SELENIUM	196.090	Axial	60.76922	0.5097133	0.5040809	0.5194322	0.5056267
SILICON	251.611	Axial	2562.940	0.9382829	0.9425096	0.9363055	0.9360337
SILVER	328.068	Axial	14191.50	1.067261	1.069336	1.065799	1.066649
SODIUM	589.592	Radial	222.7553	0.002850245	0.008987355	0.003634593	-0.004071213
STRONTIUM	421.552	Radial	386.0215	0.004609971	0.004549253	0.004611264	0.004669397
SULFUR	182.034	Axial	3.347425	0.03287973	0.05492717	0.01356167	0.03015036
THALLIUM	190.856	Axial	51.46193	0.4489661	0.4494328	0.4393183	0.4581473
TIN	189.989	Axial	123.3574	0.4703778	0.4680034	0.4750593	0.4680708
TITANIUM	334.941	Radial	3896.527	0.4912955	0.4912884	0.4897412	0.4928568
VANADIUM	292.402	Radial	761.6719	0.4854172	0.4864696	0.4823487	0.4874333
ZINC	206.200	Axial	2395.532	0.9007225	0.8963209	0.9032087	0.9026380

Sample ID: BLANK DF: 1x Batch: WG1531462 Units: mg/l

Analyzed: 08/27/20 15:44 Sequence: 37

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10469.46	10500.20	10482.03	10426.15
YTTRIUM	360.073	Axial	238821.3	239864.6	239132.9	237466.5
YTTRIUM	360.073	Radial	30369.99	30493.85	30470.17	30145.95
INDIUM	230.606	Axial	2929.554	2942.232	2954.636	2891.793

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-1.26825	-0.00008124759	0.003476913	0.0007953187	-0.004515975
IRON	259.940	Radial	8.211704	0.001510626	0.001436587	0.0004260659	0.002669224
LEAD	220.353	Axial	3.239446	0.001337532	0.001498551	0.001288149	0.001225897
ALUMINUM	308.215	Radial	3.165408	0.003620654	-0.002416442	0.01347344	-0.0001950388
ANTIMONY	206.833	Axial	-0.5110025	-0.001813976	-0.002716883	-0.001896166	-0.0008288788
BARIUM	233.527	Axial	-1.60651	0.0001026883	0.0003212384	0.0003125385	-0.0003257119
BERYLLIUM	313.042	Radial	18.42749	0.00002194703	0.00001656326	0.000006159464	0.00004311836
BORON	249.678	Radial	16.66668	0.01315071	0.01488128	0.01090146	0.01366937
CADMIUM	228.802	Axial	0.4310900	-0.0001086930	-0.0002150026	-0.0002172594	0.0001061831
CALCIUM	317.933	Radial	107.2859	-0.1100957	-0.1109167	-0.1084259	-0.1109445
CHROMIUM	267.716	Axial	9.314815	0.0003509930	0.0005254023	0.0005156088	0.00001196799
COBALT	228.616	Axial	-1.46082	-0.0002556319	-0.0003791188	-0.0004900722	0.0001022952
COPPER	324.754	Axial	134.2639	0.0001735568	0.0003768057	-0.00003648373	0.0001803484
LITHIUM	670.784	Radial	-30.0411	-0.0008872927	-0.0004772826	-0.001011637	-0.001172958
MAGNESIUM	279.079	Radial	-1.06580	0.01421357	0.01105768	0.004971465	0.02661158
MANGANESE	257.610	Axial	22.76389	0.00004777160	0.00001635879	0.00005085353	0.00007610247
MOLYBDENUM	202.030	Axial	-0.4627059	-0.0006168607	-0.001706307	0.0006847376	-0.0008290125
NICKEL	231.604	Axial	-2.73551	-0.0009161837	-0.0007218043	-0.0006408758	-0.001385871
PHOSPHORUS	177.495	Axial	0.8143624	0.002432285	0.001309170	-0.0005884469	0.006576132
POTASSIUM	766.490	Radial	40.50908	0.002145965	-0.003648174	0.01078769	-0.0007016231
SELENIUM	196.090	Axial	0.9661299	0.001395030	0.004200492	0.001892210	-0.001907612
SILICON	251.611	Axial	111.2778	0.01518004	0.01029593	0.01324059	0.02200360
SILVER	328.068	Axial	3.097222	0.0005013870	0.00001941656	0.0007425616	0.0007421830
SODIUM	589.592	Radial	241.5190	0.006566813	-0.002473969	0.005149495	0.01702491
STRONTIUM	421.552	Radial	42.53051	-0.00008340018	0.00004528608	-0.0001968638	-0.00009862287
SULFUR	182.034	Axial	2.573879	0.01821811	0.01488267	0.02970296	0.01006871
THALLIUM	190.856	Axial	1.154840	0.004040118	0.003110397	0.001657924	0.007352034
TIN	189.989	Axial	0.1140780	0.0003182826	-0.0004821291	0.001377749	0.00005922789
TITANIUM	334.941	Radial	17.09674	0.0005836749	0.0009792878	0.0003371000	0.0004346368
VANADIUM	292.402	Radial	-5.84872	0.001398726	0.001445637	0.001424372	0.001326168
ZINC	206.200	Axial	3.076069	-0.01700186	-0.01756379	-0.01645145	-0.01699032
CERIUM	535.353	Radial	-68.4888	-0.01936354	-0.06329790	0.007596094	-0.002388804
LANTHANUM	333.749	Radial	11.09616	0.003901853	0.002257459	0.002996891	0.006451209

Sample ID: LCS DF: 1x Batch: WG1531462 Units: mg/l

Analyzed: 08/27/20 15:46 Sequence: 38

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10246.60	10214.51	10261.07	10264.21
YTTRIUM	360.073	Axial	231073.1	229860.2	231856.7	231502.5
YTTRIUM	360.073	Radial	30220.44	30410.49	30076.09	30174.73
INDIUM	230.606	Axial	2802.713	2790.492	2808.643	2809.003

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	143.3603	0.8361021	0.8414186	0.8340102	0.8328776
IRON	259.940	Radial	9302.932	8.408796	8.401790	8.404511	8.420088
LEAD	220.353	Axial	522.9617	0.8525493	0.8559936	0.8540113	0.8476430
ALUMINUM	308.215	Radial	2290.677	8.668728	8.758862	8.609655	8.637666
ANTIMONY	206.833	Axial	210.1964	0.8517522	0.8519677	0.8473244	0.8559646
BARIUM	233.527	Axial	3416.912	0.8793606	0.8822589	0.8792028	0.8766202
BERYLLIUM	313.042	Radial	91133.69	0.8675427	0.8665261	0.8680905	0.8680115
BORON	249.678	Radial	665.0394	0.8651280	0.8701236	0.8621232	0.8631372
CADMIUM	228.802	Axial	3759.583	0.8567872	0.8604325	0.8571885	0.8527407
CALCIUM	317.933	Radial	18975.81	8.477912	8.464050	8.481715	8.487972
CHROMIUM	267.716	Axial	5618.801	0.8627848	0.8673853	0.8597458	0.8612234
COBALT	228.616	Axial	2757.783	0.8595896	0.8658258	0.8576126	0.8553304
COPPER	324.754	Axial	15501.89	0.8492285	0.8540474	0.8458857	0.8477524
LITHIUM	670.784	Radial	9570.664	0.8473992	0.8486390	0.8468048	0.8467538
MAGNESIUM	279.079	Radial	1017.260	8.353136	8.339047	8.355009	8.365353
MANGANESE	257.610	Axial	55462.62	0.8558832	0.8600379	0.8538724	0.8537394
MOLYBDENUM	202.030	Axial	1180.733	0.8646254	0.8667479	0.8623229	0.8648056
NICKEL	231.604	Axial	1432.333	0.8527034	0.8569087	0.8524298	0.8487717
PHOSPHORUS	177.495	Axial	170.7322	0.8533815	0.8470984	0.8562073	0.8568387
POTASSIUM	766.490	Radial	4384.109	8.457058	8.491162	8.456718	8.423295
SELENIUM	196.090	Axial	111.6633	0.8485452	0.8483160	0.8456589	0.8516606
SILICON	251.611	Axial	2501.715	0.8234339	0.8145510	0.8235579	0.8321929
SILVER	328.068	Axial	2359.693	0.1603039	0.1603087	0.1602612	0.1603418
SODIUM	589.592	Radial	15030.32	8.530269	8.526755	8.520451	8.543602
STRONTIUM	421.552	Radial	66607.89	0.8605175	0.8582230	0.8614238	0.8619056
SULFUR	182.034	Axial	657.3461	8.070353	8.065375	8.093829	8.051857
THALLIUM	190.856	Axial	113.2258	0.8442249	0.8494833	0.8457748	0.8374166
TIN	189.989	Axial	261.4702	0.8483048	0.8501576	0.8512728	0.8434839
TITANIUM	334.941	Radial	7027.098	0.8448182	0.8426510	0.8449211	0.8468825
VANADIUM	292.402	Radial	1413.046	0.8538355	0.8551822	0.8527580	0.8535662
ZINC	206.200	Axial	2482.947	0.8408446	0.8422542	0.8402600	0.8400196
CERIUM	535.353	Radial	-56.7112	0.007676880	-0.01002416	0.02014679	0.01290801
LANTHANUM	333.749	Radial	2.733478	-0.0001539649	0.0005138764	-0.001061647	0.00008587565

Sample ID: L1253450-07 DF: 1x Batch: WG1531462 Units: mg/l

Analyzed: 08/27/20 15:49 Sequence: 39

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9967.158	9978.935	9957.612	9964.925
YTTRIUM	360.073	Axial	224147.2	224265.5	224437.3	223738.9
YTTRIUM	360.073	Radial	29823.63	29630.30	29941.92	29898.69
INDIUM	230.606	Axial	2691.742	2691.542	2691.760	2691.925

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.2049271	0.005889308	0.005740139	0.01050778	0.001420000
IRON	259.940	Radial	855.3668	0.7781116	0.7806270	0.7780194	0.7756883
LEAD	220.353	Axial	2.922008	0.001245229	0.0009236547	0.001513119	0.001298914
ALUMINUM	308.215	Radial	6.971481	0.01839695	0.0004000632	0.03898655	0.01580425
ANTIMONY	206.833	Axial	1.557351	0.006695762	0.005836294	0.004774169	0.009476824
BARIUM	233.527	Axial	253.1611	0.06744798	0.06748178	0.06777321	0.06708894
BERYLLIUM	313.042	Radial	21.86864	0.00005823681	0.00004619533	0.00004828651	0.00008022858
BORON	249.678	Radial	26.72320	0.02692749	0.02359650	0.02677715	0.03040884
CADMIUM	228.802	Axial	2.087318	0.0002837554	0.0003298794	0.00007880341	0.0004425835
CALCIUM	317.933	Radial	109458.3	50.32353	50.64018	50.08859	50.24183
CHROMIUM	267.716	Axial	136.1440	0.02046771	0.02011933	0.02045431	0.02082949
COBALT	228.616	Axial	1.441994	0.0006454129	0.001059076	0.0005961135	0.0002810492
COPPER	324.754	Axial	164.9918	0.002392933	0.002146428	0.002761751	0.002270621
LITHIUM	670.784	Radial	28.60977	0.004314312	0.003553163	0.004508956	0.004880817
MAGNESIUM	279.079	Radial	1957.077	16.26290	16.41246	16.17764	16.19859
MANGANESE	257.610	Axial	9739.272	0.1542635	0.1541692	0.1544788	0.1541424
MOLYBDENUM	202.030	Axial	5.090005	0.003547883	0.003402433	0.004176162	0.003065054
NICKEL	231.604	Axial	6.691447	0.004788347	0.004505337	0.004990792	0.004868911
PHOSPHORUS	177.495	Axial	7.482910	0.03695404	0.03921477	0.03723023	0.03441711
POTASSIUM	766.490	Radial	1149.472	2.190838	2.187872	2.205691	2.178951
SELENIUM	196.090	Axial	0.7472934	0.00004717970	-0.001649119	0.002473893	-0.0006832352
SILICON	251.611	Axial	11649.16	4.023762	4.011522	4.039294	4.020469
SILVER	328.068	Axial	1.539868	0.0004025480	0.0003154118	0.0005332181	0.0003590141
SODIUM	818.326	Radial	7990.067	116.9933	117.6913	116.4016	116.8871
STRONTIUM	421.552	Radial	3939.636	0.05098181	0.05126767	0.05074909	0.05092868
SULFUR	182.034	Axial	514.3208	6.488949	6.490050	6.489853	6.486943
THALLIUM	190.856	Axial	0.3231957	-0.001739744	-0.001393727	-0.001565565	-0.002259941
TIN	189.989	Axial	-0.1138776	-0.0004175611	-0.001351316	0.0006424334	-0.0005438006
TITANIUM	334.941	Radial	34.02659	0.002686442	0.002314537	0.003271066	0.002473724
VANADIUM	292.402	Radial	-7.62782	0.0002608694	0.002952867	-0.001691144	-0.0004791147
ZINC	206.200	Axial	41.43846	-0.003307910	-0.002835151	-0.003694812	-0.003393766
CERIUM	535.353	Radial	-34.4242	0.05884618	0.06519202	0.04135715	0.06998938
LANTHANUM	333.749	Radial	6.401552	0.001685598	0.004637101	-0.0008948943	0.001314587

Sample ID: SD DF: 5x Ref Sample ID: L1253450-07 Batch: WG1531462 Units: mg/l

Analyzed: 08/27/20 15:52 Sequence: 40

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10468.29	10460.96	10452.47	10491.45
YTTRIUM	360.073	Axial	235642.9	235054.6	235140.7	236733.4
YTTRIUM	360.073	Radial	30467.39	30373.19	30501.67	30527.32
INDIUM	230.606	Axial	2931.043	2923.021	2938.641	2931.466

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-1.69826	-0.002504358	-0.01728247	-0.002149917	-0.01813297
IRON	259.940	Radial	188.9530	0.1636458	0.8319916	0.8123622	0.8103329
LEAD	220.353	Axial	2.857362	0.0007388592	0.01086042	0.002626571	-0.002404106
ALUMINUM	308.215	Radial	7.261276	0.01895905	0.02089586	0.08825684	0.1752330
ANTIMONY	206.833	Axial	0.4109941	0.001835371	-0.01242338	0.009075566	0.03087839
BARIUM	233.527	Axial	53.68007	0.01402269	0.07213326	0.06972117	0.06848584
BERYLLIUM	313.042	Radial	19.05179	0.00002718690	0.00007280449	0.0001384825	0.0001965166
BORON	249.678	Radial	14.69597	0.01051598	0.06704164	0.04791920	0.04277880
CADMIUM	228.802	Axial	1.958680	0.0002314828	0.001738005	-0.0002106118	0.001944849
CALCIUM	317.933	Radial	23060.99	10.25211	51.30868	51.09177	51.38127
CHROMIUM	267.716	Axial	31.55556	0.003698800	0.01890757	0.01855040	0.01802404
COBALT	228.616	Axial	-0.3429516	0.00007477882	-0.0007617020	0.002301423	-0.0004180383
COPPER	324.754	Axial	137.4722	0.0004436992	0.001575630	0.001562235	0.003517621
LITHIUM	670.784	Radial	-25.3464	-0.0004675470	-0.006548450	0.0003113406	-0.0007760960
MAGNESIUM	279.079	Radial	422.1659	3.45189	17.19558	17.30285	17.27993
MANGANESE	257.610	Axial	2193.472	0.03284706	0.1654788	0.1627454	0.1644816
MOLYBDENUM	202.030	Axial	0.4959632	0.00007052202	0.003473300	-0.0008693573	-0.001546113
NICKEL	231.604	Axial	0.05896357	0.0006764386	0.0006849568	0.005232492	0.004229129
PHOSPHORUS	177.495	Axial	1.968221	0.008083724	0.02974938	0.06213791	0.02936858
POTASSIUM	766.490	Radial	261.0304	0.4276064	1.964289	2.254896	2.194912
SELENIUM	196.090	Axial	1.598360	0.006144064	0.03950060	0.04696832	0.005692053
SILICON	251.611	Axial	2627.681	0.8471902	4.247026	4.183091	4.277737
SILVER	328.068	Axial	-1.15277	0.0002183264	0.003883365	-0.002263484	0.001655017
SODIUM	818.326	Radial	1663.155	24.72284	123.5546	123.2551	124.0330
STRONTIUM	421.552	Radial	886.8860	0.01074244	0.05287236	0.05387582	0.05438848
SULFUR	182.034	Axial	107.7519	1.284184	6.424263	6.460660	6.377843
THALLIUM	190.856	Axial	0.6306164	0.0002600110	0.001751994	-0.01544346	0.01759163
TIN	189.989	Axial	0.3785322	0.001138325	-0.002425410	0.01579696	0.003703318
TITANIUM	334.941	Radial	19.72978	0.0008914480	0.001561260	0.006918300	0.004892161
VANADIUM	292.402	Radial	-11.0251	-0.001673922	-0.005486169	-0.01440188	-0.005220776
ZINC	206.200	Axial	9.591011	-0.01479592	-0.07319208	-0.07346047	-0.07528625
CERIUM	535.353	Radial	-59.9529	0.0002341986	-0.2093799	0.06424695	0.1486460
LANTHANUM	333.749	Radial	6.058447	0.001440390	-0.001559679	0.01067506	0.01249048

Sample ID: MS DF: 1x Ref Sample ID: L1253450-07 Batch: WG1531462 Units: mg/l
 Analyzed: 08/27/20 15:55 Sequence: 41

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9909.502	9915.656	9914.248	9898.602
YTTRIUM	360.073	Axial	222717.6	223271.2	222070.6	222810.9
YTTRIUM	360.073	Radial	29519.46	29693.05	29644.43	29220.91
INDIUM	230.606	Axial	2647.014	2643.549	2648.154	2649.340

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	141.5602	0.8535239	0.8606146	0.8584720	0.8414850
IRON	259.940	Radial	9924.307	9.184144	9.163185	9.175444	9.213805
LEAD	220.353	Axial	495.1545	0.8547037	0.8591856	0.8595414	0.8453843
ALUMINUM	308.215	Radial	2262.857	8.767301	8.800419	8.707753	8.793731
ANTIMONY	206.833	Axial	211.7574	0.8872513	0.9007431	0.8868222	0.8741887
BARIUM	233.527	Axial	3485.723	0.9275528	0.9261267	0.9289736	0.9275581
BERYLLIUM	313.042	Radial	89536.55	0.8725868	0.8722435	0.8707668	0.8747500
BORON	249.678	Radial	669.8075	0.8923296	0.8968851	0.8825206	0.8975831
CADMIUM	228.802	Axial	3693.183	0.8702832	0.8694522	0.8710916	0.8703058
CALCIUM	373.690	Radial	69321.59	60.50027	60.45163	60.33422	60.71498
CHROMIUM	267.716	Axial	5458.770	0.8667248	0.8668256	0.8633150	0.8700337
COBALT	228.616	Axial	2636.201	0.8700100	0.8703687	0.8701725	0.8694887
COPPER	324.754	Axial	15046.33	0.8552374	0.8515891	0.8585048	0.8556183
LITHIUM	670.784	Radial	9334.416	0.8461300	0.8442259	0.8448840	0.8492803
MAGNESIUM	279.079	Radial	2927.595	24.56608	24.66871	24.42225	24.60729
MANGANESE	257.610	Axial	61855.67	0.9870494	0.9858609	0.9850577	0.9902297
MOLYBDENUM	202.030	Axial	1168.415	0.8847141	0.8854634	0.8838338	0.8848451
NICKEL	231.604	Axial	1365.564	0.8607570	0.8611936	0.8594152	0.8616623
PHOSPHORUS	177.495	Axial	178.2615	0.9214533	0.9315622	0.9254720	0.9073258
POTASSIUM	766.490	Radial	5334.781	10.55424	10.56288	10.52784	10.57201
SELENIUM	196.090	Axial	110.5380	0.8687037	0.8686860	0.8738625	0.8635625
SILICON	251.611	Axial	13845.08	4.814309	4.792107	4.815295	4.835525
SILVER	328.068	Axial	2295.561	0.1612503	0.1613570	0.1610863	0.1613076
SODIUM	818.326	Radial	8354.566	123.5264	123.3699	123.5610	123.6482
STRONTIUM	421.552	Radial	68173.28	0.9016886	0.8993993	0.9020600	0.9036066
SULFUR	182.034	Axial	1163.938	14.78652	14.84367	14.82549	14.69040
THALLIUM	190.856	Axial	108.2153	0.8543666	0.8544731	0.8588702	0.8497565
TIN	189.989	Axial	254.3741	0.8738247	0.8754049	0.8788530	0.8672162
TITANIUM	334.941	Radial	7047.972	0.8674938	0.8652921	0.8674387	0.8697507
VANADIUM	292.402	Radial	1384.304	0.8563532	0.8565198	0.8496006	0.8629391
ZINC	206.200	Axial	2447.836	0.8575012	0.8561671	0.8585590	0.8577774
CERIUM	535.353	Radial	-28.0567	0.07346553	0.06028827	0.06373647	0.09637184
LANTHANUM	333.749	Radial	6.419640	0.001725280	0.003007337	-0.001426657	0.003595160

Sample ID: MSD DF: 1x Ref Sample ID: L1253450-07 Batch: WG1531462 Units: mg/l
 Analyzed: 08/27/20 15:57 Sequence: 42

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9912.561	9917.453	9906.165	9914.064
YTTRIUM	360.073	Axial	221655.9	220567.0	221310.7	223090.1
YTTRIUM	360.073	Radial	29776.14	29681.55	29896.84	29750.04
INDIUM	230.606	Axial	2656.117	2661.447	2654.493	2652.412

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	142.4230	0.8584292	0.8521111	0.8662335	0.8569430
IRON	259.940	Radial	9970.824	9.147476	9.136072	9.141360	9.164997
LEAD	220.353	Axial	498.6476	0.8577963	0.8542910	0.8594682	0.8596297
ALUMINUM	308.215	Radial	2269.414	8.716861	8.634685	8.612853	8.903047
ANTIMONY	206.833	Axial	213.1874	0.8929734	0.8897613	0.8921409	0.8970179
BARIUM	233.527	Axial	3512.102	0.9342795	0.9354627	0.9328956	0.9344802
BERYLLIUM	313.042	Radial	90314.04	0.8725639	0.8704550	0.8728692	0.8743676
BORON	249.678	Radial	671.5991	0.8869416	0.8799050	0.8763025	0.9046174
CADMIUM	228.802	Axial	3708.961	0.8737323	0.8735299	0.8732142	0.8744529
CALCIUM	373.690	Radial	69771.86	60.36683	60.32216	60.42355	60.35478
CHROMIUM	267.716	Axial	5458.765	0.8664547	0.8662435	0.8671403	0.8659804
COBALT	228.616	Axial	2644.439	0.8697382	0.8692889	0.8680956	0.8718301
COPPER	324.754	Axial	15017.84	0.8577334	0.8584948	0.8613426	0.8533630
LITHIUM	670.784	Radial	9443.481	0.8486113	0.8451343	0.8497446	0.8509551
MAGNESIUM	279.079	Radial	2940.018	24.45762	24.47872	24.46435	24.42980
MANGANESE	257.610	Axial	61932.03	0.9879616	0.9881529	0.9883130	0.9874190
MOLYBDENUM	202.030	Axial	1179.863	0.8931089	0.8934476	0.8921789	0.8937004
NICKEL	231.604	Axial	1373.068	0.8625206	0.8611677	0.8643006	0.8620934
PHOSPHORUS	177.495	Axial	180.4776	0.9326465	0.9312896	0.9286252	0.9380247
POTASSIUM	766.490	Radial	5401.680	10.59466	10.57108	10.59802	10.61488
SELENIUM	196.090	Axial	111.3411	0.8747914	0.8676406	0.8824743	0.8742592
SILICON	251.611	Axial	13849.72	4.814436	4.786060	4.834112	4.823135
SILVER	328.068	Axial	2309.629	0.1621867	0.1619002	0.1620513	0.1626086
SODIUM	818.326	Radial	8485.070	124.3657	124.1849	124.5869	124.3252
STRONTIUM	421.552	Radial	69123.25	0.9063620	0.9033368	0.9067096	0.9090396
SULFUR	182.034	Axial	1172.059	14.88523	14.88230	14.88537	14.88803
THALLIUM	190.856	Axial	108.8508	0.8564423	0.8623637	0.8528044	0.8541586
TIN	189.989	Axial	257.7557	0.8824114	0.8766113	0.8825636	0.8880594
TITANIUM	334.941	Radial	7133.895	0.8704911	0.8681082	0.8708577	0.8725072
VANADIUM	292.402	Radial	1392.081	0.8537268	0.8526618	0.8514585	0.8570600
ZINC	206.200	Axial	2451.203	0.8584349	0.8600146	0.8605552	0.8547350
CERIUM	535.353	Radial	-25.4217	0.07951524	0.1316791	0.06820103	0.03866558
LANTHANUM	333.749	Radial	7.538921	0.002237055	-0.0005067602	0.004185030	0.003032897

Sample ID: L1253450-02 DF: 1x Batch: WG1531462 Units: mg/l

Analyzed: 08/27/20 16:09 Sequence: 46

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9945.100	9933.322	9968.676	9933.300
YTTRIUM	360.073	Axial	224793.9	222821.3	227388.3	224172.0
YTTRIUM	360.073	Radial	29461.92	29545.47	29442.44	29397.85
INDIUM	230.606	Axial	2721.025	2717.421	2724.933	2720.720

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.2683414	0.005502259	-0.002818055	0.01000645	0.009318378
IRON	259.940	Radial	301.0685	0.2734460	0.2746436	0.2740952	0.2715992
LEAD	220.353	Axial	3.266488	0.001770908	0.0001116467	0.003753809	0.001447268
ALUMINUM	308.215	Radial	7.325489	0.02019039	0.004232138	0.02264460	0.03369443
ANTIMONY	206.833	Axial	0.9405255	0.004138034	0.007362495	0.002073891	0.002977717
BARIUM	233.527	Axial	402.2270	0.1071000	0.1072997	0.1065197	0.1074805
BERYLLIUM	313.042	Radial	20.94010	0.00005172107	0.00008569001	0.00007605189	-0.000006578684
BORON	249.678	Radial	34.29456	0.03757614	0.03816656	0.03978026	0.03478159
CADMIUM	228.802	Axial	2.393571	0.0003572809	0.0006706447	-0.00001641731	0.0004176154
CALCIUM	373.690	Radial	96370.02	84.32567	84.24643	84.43382	84.29676
CERIUM	535.353	Radial	-10.1529	0.1145713	0.1151706	0.1052713	0.1232720
CHROMIUM	267.716	Axial	15.01341	0.001327934	0.001704577	0.001593949	0.0006852764
COBALT	228.616	Axial	0.6214725	0.0003771176	0.0003505096	0.0001026187	0.0006782244
COPPER	324.754	Axial	134.1120	0.0006147425	0.0007674206	0.0002862375	0.0007905693
LANTHANUM	333.749	Radial	8.431950	0.002725635	0.003760095	0.003817576	0.0005992341
LITHIUM	670.784	Radial	42.95648	0.005649192	0.005593344	0.004316372	0.007037861
MAGNESIUM	279.079	Radial	3660.356	30.76879	30.76368	30.96573	30.57694
MANGANESE	257.610	Axial	5919.341	0.09384988	0.09370566	0.09434395	0.09350002
MOLYBDENUM	202.030	Axial	2.563528	0.001649393	0.002144525	0.001629148	0.001174505
NICKEL	231.604	Axial	18.62727	0.01205756	0.01232534	0.01150020	0.01234714
PHOSPHORUS	177.495	Axial	22.54173	0.1147343	0.1136235	0.1153683	0.1152112
POTASSIUM	766.490	Radial	1023.316	1.966841	1.944070	1.980414	1.976038
SELENIUM	196.090	Axial	0.3473547	-0.003084039	0.004145109	-0.01150861	-0.001888616
SILICON	251.611	Axial	14884.69	5.158807	5.161716	5.162953	5.151752
SILVER	328.068	Axial	-7.12533	-0.0002026998	-0.0005403522	-0.0001855962	0.0001178489
SODIUM	818.326	Radial	1753.307	26.85213	26.82287	27.09172	26.64179
STRONTIUM	421.552	Radial	7768.103	0.1023855	0.1022579	0.1023093	0.1025891
SULFUR	182.034	Axial	1128.746	14.28780	14.29865	14.24426	14.32048
THALLIUM	190.856	Axial	1.030043	0.003687066	0.001521084	0.005705237	0.003834877
TIN	189.989	Axial	-1.24230	-0.004184759	-0.004853371	-0.004122248	-0.003578659
TITANIUM	334.941	Radial	41.78369	0.003698626	0.002474403	0.004653418	0.003968058
VANADIUM	292.402	Radial	-5.71392	0.001376694	0.0004958479	-0.0004538380	0.004088072
ZINC	206.200	Axial	20.71059	-0.01066229	-0.01086599	-0.01070425	-0.01041662

Sample ID: CCV Units: mg/l

Analyzed: 08/27/20 16:11 Sequence: 47 Standard ID: 20H10527

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10107.03	10114.14	10088.42	10118.53
YTTRIUM	360.073	Axial	226898.1	225952.2	226528.9	228213.3
YTTRIUM	360.073	Radial	29956.13	30055.98	29786.45	30025.95
INDIUM	230.606	Axial	2755.754	2783.376	2738.608	2745.279

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	2550.334	9.737798	9.663553	9.699968	9.849872
ANTIMONY	206.833	Axial	117.4963	0.4827781	0.4896904	0.4787173	0.4799266
ARSENIC	189.042	Axial	165.3148	0.9762474	0.9853804	0.9757576	0.9676042
BARIUM	233.527	Axial	1863.398	0.4864028	0.4855285	0.4872313	0.4864486
BERYLLIUM	313.042	Radial	19882.21	0.1908190	0.1903492	0.1911944	0.1909135
BORON	249.678	Radial	738.1399	0.9697317	0.9588884	0.9626414	0.9876654
CADMIUM	228.802	Axial	2142.320	0.4948725	0.4989854	0.4928742	0.4927578
CALCIUM	317.933	Radial	105485.1	48.27512	48.21664	48.35924	48.24949
CHROMIUM	267.716	Axial	6095.031	0.9489316	0.9475300	0.9486955	0.9505693
COBALT	228.616	Axial	3071.250	0.9735708	0.9734595	0.9744607	0.9727922
COPPER	324.754	Axial	17178.40	0.9592768	0.9640653	0.9545595	0.9592054
IRON	259.940	Radial	10318.04	9.409356	9.398356	9.425521	9.404192
LEAD	220.353	Axial	285.6253	0.4718952	0.4741702	0.4726775	0.4688378
LITHIUM	670.784	Radial	10532.16	0.9405721	0.9398207	0.9411544	0.9407411
MAGNESIUM	279.079	Radial	1142.294	9.459460	9.536139	9.444533	9.397709
MANGANESE	257.610	Axial	59770.26	0.9351140	0.9357866	0.9346491	0.9349064
MOLYBDENUM	202.030	Axial	335.8394	0.2491199	0.2497896	0.2491066	0.2484635
NICKEL	231.604	Axial	1588.672	0.9618016	0.9617064	0.9641837	0.9595148
PHOSPHORUS	177.495	Axial	193.1618	0.9790694	0.9894711	0.9802863	0.9674507
POTASSIUM	766.490	Radial	24174.62	47.39373	47.39979	47.44971	47.33171
SELENIUM	196.090	Axial	122.7895	0.9466494	0.9601035	0.9443053	0.9355395
SILICON	251.611	Axial	7096.930	2.408793	2.315439	2.412956	2.497985
SILVER	328.068	Axial	6854.052	0.4714792	0.4704262	0.4706590	0.4733525
SODIUM	818.326	Radial	3264.560	48.24860	48.22604	48.43223	48.08752
STRONTIUM	421.552	Radial	72861.63	0.9496728	0.9487802	0.9492838	0.9509543
SULFUR	182.034	Axial	373.6453	4.645244	4.694446	4.625330	4.615957
THALLIUM	190.856	Axial	124.9099	0.9477319	0.9438569	0.9402420	0.9590968
TIN	189.989	Axial	143.6834	0.4740961	0.4724789	0.4748126	0.4749968
TITANIUM	334.941	Radial	7993.977	0.9697411	0.9736784	0.9674712	0.9680736
VANADIUM	292.402	Radial	1567.978	0.9552371	0.9560793	0.9567682	0.9528639
ZINC	206.200	Axial	2810.685	0.9676325	0.9772866	0.9616771	0.9639338
CERIUM	535.353	Radial	-23.1822	0.08465702	0.09283919	0.1106222	0.05050971
LANTHANUM	333.749	Radial	6.195395	0.001569927	0.003029944	0.005361829	-0.003681991

Sample ID: CCB Units: mg/l

Analyzed: 08/27/20 16:14 Sequence: 48

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10547.82	10550.46	10529.61	10563.41
YTTRIUM	360.073	Axial	241856.7	244575.3	241498.3	239496.4
YTTRIUM	360.073	Radial	30671.49	30597.47	30787.75	30629.26
INDIUM	230.606	Axial	2984.169	2980.105	2956.169	3016.234

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	5.230303	0.01118759	-0.007820592	0.02757596	0.01380740
ANTIMONY	206.833	Axial	1.058070	0.004373398	0.003262600	0.004368520	0.005489074
ARSENIC	189.042	Axial	-0.7853315	0.002693467	-0.005586003	0.004611531	0.009054872
BARIUM	233.527	Axial	-1.60278	0.0001070574	0.0001806547	-0.0003480951	0.0004886126
BERYLLIUM	313.042	Radial	17.04063	0.000007180860	0.00003240117	-0.000009193537	-0.000001665053
BORON	249.678	Radial	7.528728	0.001101317	-0.0008638547	0.003113617	0.001054190
CADMIUM	228.802	Axial	0.9403366	0.000003022854	-0.00009896229	0.0001430309	-0.00003500007
CALCIUM	317.933	Radial	88.04109	-0.1191931	-0.1167189	-0.1231139	-0.1177464
CERIUM	535.353	Radial	-49.1482	0.02504094	0.01098850	0.05236257	0.01177175
CHROMIUM	267.716	Axial	9.009259	0.0002958583	0.0002814889	0.0004960686	0.0001100173
COBALT	228.616	Axial	-0.6227696	-0.000001916594	-0.00008233702	0.0004710909	-0.0003945036
COPPER	324.754	Axial	125.3472	-0.0003851325	-0.0006567783	-0.0003138980	-0.0001847212
IRON	259.940	Radial	5.547514	-0.0009431361	-0.0001835680	0.0007172816	-0.003363122
LANTHANUM	333.749	Radial	14.15888	0.005308925	0.004240154	0.004708485	0.006978136
LEAD	220.353	Axial	1.644706	-0.001208065	-0.001506468	-0.001163438	-0.0009542874
LITHIUM	670.784	Radial	-25.2028	-0.0004360441	0.0003924195	-0.001980738	0.0002801860
MAGNESIUM	279.079	Radial	-2.42470	0.003282635	0.02016058	0.01081047	-0.02112314
MANGANESE	257.610	Axial	19.55556	-0.000002942959	0.00001799310	0.000009226671	-0.00003604865
MOLYBDENUM	202.030	Axial	-0.2328465	-0.0004505406	-0.0004275934	0.00004708043	-0.0009711089
NICKEL	231.604	Axial	-1.97990	-0.0004636149	-0.001021301	-0.0003020043	-0.00006753929
PHOSPHORUS	177.495	Axial	0.6957167	0.001818313	0.001889551	0.002599885	0.0009655012
POTASSIUM	766.490	Radial	27.38285	-0.02383233	-0.005737749	0.004083542	-0.06984277
SELENIUM	196.090	Axial	0.9249396	0.001035991	0.006875888	-0.007403342	0.003635428
SILICON	251.611	Axial	93.52778	0.009067047	0.006193382	0.01012461	0.01088315
SILVER	328.068	Axial	-3.79166	0.00004509246	0.0002512265	-0.0002877509	0.0001718017
SODIUM	589.592	Radial	182.2727	-0.02848451	-0.02949736	-0.02422136	-0.03173481
STRONTIUM	421.552	Radial	44.93268	-0.00005816160	-0.0001659912	-0.00003893789	0.00003044427
SULFUR	182.034	Axial	0.6860003	-0.004541449	-0.007617504	0.005503731	-0.01151058
THALLIUM	190.856	Axial	0.5438850	-0.0004168927	-0.003244202	0.003784232	-0.001790708
TIN	189.989	Axial	1.033421	0.003115535	0.004153506	0.002392483	0.002800616
TITANIUM	334.941	Radial	20.02352	0.0009121499	0.0009513062	0.0005184300	0.001266714
VANADIUM	292.402	Radial	-5.47880	0.001652308	0.0003772097	0.001418940	0.003160774
ZINC	206.200	Axial	0.8103405	-0.01777136	-0.01771157	-0.01784922	-0.01775329

Sample ID: L1253450-03 DF: 1x Batch: WG1531462 Units: mg/l

Analyzed: 08/27/20 16:17 Sequence: 49

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9952.935	9952.185	9955.867	9950.754
YTTRIUM	360.073	Axial	224938.5	225188.1	226570.5	223057.0
YTTRIUM	360.073	Radial	29622.34	29649.98	29489.06	29727.99
INDIUM	230.606	Axial	2738.998	2718.119	2762.633	2736.241

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.9022169	0.001734308	-0.00001466873	0.007960513	-0.002742919
IRON	259.940	Radial	243.9489	0.2192307	0.2149682	0.2221125	0.2206115
LEAD	220.353	Axial	3.578005	0.002254578	0.002263549	0.003445693	0.001054491
ALUMINUM	308.215	Radial	7.734125	0.02158221	0.01278964	0.02154246	0.03041453
ANTIMONY	206.833	Axial	-0.05243297	-0.000008472775	-0.002555398	-0.001438996	0.003968976
BARIUM	233.527	Axial	273.8152	0.07301263	0.07276073	0.07328145	0.07299571
BERYLLIUM	313.042	Radial	20.27514	0.00004415595	0.00009881399	0.000001136679	0.00003251717
BORON	249.678	Radial	34.85050	0.03806836	0.03810386	0.03628625	0.03981497
CADMIUM	228.802	Axial	1.935073	0.0002487708	0.0002487432	0.0004098254	0.00008774394
CALCIUM	373.690	Radial	96961.67	84.38390	84.27972	84.41734	84.45465
CERIUM	535.353	Radial	-12.1068	0.1100853	0.1026347	0.1016795	0.1259417
CHROMIUM	267.716	Axial	10.35384	0.0005888850	-0.0002476492	0.0008281608	0.001186143
COBALT	228.616	Axial	0.6048310	0.0003714909	0.0009648356	0.0004302660	-0.0002806290
COPPER	324.754	Axial	125.8040	0.0001371759	-0.00006522958	0.0001453211	0.0003314362
LANTHANUM	333.749	Radial	6.998761	0.001983214	0.004833808	-0.002768234	0.003884068
LITHIUM	670.784	Radial	33.27786	0.004756610	0.004833148	0.005372087	0.004064596
MAGNESIUM	279.079	Radial	3559.702	29.76168	29.82439	29.81733	29.64332
MANGANESE	257.610	Axial	10559.73	0.1675233	0.1674793	0.1673252	0.1677655
MOLYBDENUM	202.030	Axial	2.088736	0.001289633	0.001178159	0.002239903	0.0004508361
NICKEL	231.604	Axial	21.27911	0.01359923	0.01375071	0.01283954	0.01420745
PHOSPHORUS	177.495	Axial	15.87067	0.08025213	0.07635799	0.07983339	0.08456501
POTASSIUM	766.490	Radial	1460.337	2.823549	2.831284	2.816777	2.822584
SELENIUM	196.090	Axial	1.275353	0.004214107	0.01093994	0.0004563323	0.001246051
SILICON	251.611	Axial	13670.02	4.732314	4.725859	4.738171	4.732914
SILVER	328.068	Axial	-5.62410	-0.00009747721	-0.0005372444	-0.00003291377	0.0002777266
SODIUM	818.326	Radial	2087.230	31.58802	31.45231	31.43542	31.87632
STRONTIUM	421.552	Radial	7781.689	0.1020074	0.1018326	0.1023962	0.1017934
SULFUR	182.034	Axial	1037.102	13.11631	13.05632	13.22572	13.06690
THALLIUM	190.856	Axial	0.8508774	0.002256648	-0.001258024	0.001813942	0.006214025
TIN	189.989	Axial	-0.8270392	-0.002787780	-0.005000522	-0.001436725	-0.001926095
TITANIUM	334.941	Radial	43.12854	0.003835606	0.003262002	0.004493513	0.003751301
VANADIUM	292.402	Radial	-4.19536	0.002319461	0.002866407	0.0004059568	0.003686020
ZINC	206.200	Axial	53.92254	0.001159259	0.0003324419	0.001605151	0.001540183

Sample ID: L1253450-04 DF: 1x Batch: WG1531462 Units: mg/l

Analyzed: 08/27/20 16:20 Sequence: 50

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9978.342	9953.774	9995.539	9985.713
YTTRIUM	360.073	Axial	225453.0	224277.9	226077.6	226003.3
YTTRIUM	360.073	Radial	29774.96	29831.56	29619.42	29873.90
INDIUM	230.606	Axial	2733.865	2729.939	2737.260	2734.396

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.9610638	0.001391518	-0.005027612	0.004943418	0.004258749
IRON	259.940	Radial	334.3593	0.3010709	0.3017610	0.2997917	0.3016601
LEAD	220.353	Axial	3.609057	0.002322545	0.003260764	0.001539845	0.002167025
ALUMINUM	308.215	Radial	69.10260	0.2574077	0.2659391	0.2638972	0.2423867
ANTIMONY	206.833	Axial	0.4201458	0.001955119	-0.0006233846	0.001395065	0.005093675
BARIUM	233.527	Axial	169.9288	0.04538939	0.04517245	0.04521789	0.04577783
BERYLLIUM	313.042	Radial	24.10485	0.00008020642	0.00004495191	0.00008034973	0.0001153176
BORON	249.678	Radial	17.69316	0.01494953	0.01216304	0.01397322	0.01871234
CADMIUM	228.802	Axial	1.792167	0.0002145641	0.0004827911	-0.00004942600	0.0002103273
CALCIUM	317.933	Radial	103615.6	47.70616	47.60020	47.79035	47.72792
CERIUM	535.353	Radial	-31.9866	0.06444269	0.07441353	0.05831613	0.06059842
CHROMIUM	267.716	Axial	616.9347	0.09634622	0.09591132	0.09656846	0.09655889
COBALT	228.616	Axial	1.244218	0.0005751667	0.0007101561	0.0003105455	0.0007047986
COPPER	324.754	Axial	305.6817	0.01030511	0.01104403	0.009682045	0.01018926
LANTHANUM	333.749	Radial	11.89422	0.004392095	0.005787624	0.003496334	0.003892328
LITHIUM	670.784	Radial	25.79916	0.004068517	0.004084060	0.003959358	0.004162133
MAGNESIUM	279.079	Radial	1968.296	16.38231	16.32966	16.43127	16.38600
MANGANESE	257.610	Axial	6915.476	0.1093291	0.1104097	0.1079888	0.1095887
MOLYBDENUM	202.030	Axial	5.239941	0.003655879	0.003572822	0.004206274	0.003188541
NICKEL	231.604	Axial	28.62448	0.01809986	0.01775220	0.01897533	0.01757204
PHOSPHORUS	177.495	Axial	8.689260	0.04310681	0.03682316	0.04816602	0.04433124
POTASSIUM	766.490	Radial	799.6588	1.503574	1.505678	1.536987	1.468059
SELENIUM	196.090	Axial	0.3071032	-0.003420327	-0.003821697	-0.001915347	-0.004523938
SILICON	251.611	Axial	13247.27	4.573586	4.587682	4.564502	4.568574
SILVER	328.068	Axial	-6.51502	-0.0001582365	0.0001063614	-0.0001739209	-0.0004071499
SODIUM	818.326	Radial	3217.556	47.85223	47.83603	47.90164	47.81902
STRONTIUM	421.552	Radial	4202.000	0.05450831	0.05448700	0.05464167	0.05439627
SULFUR	182.034	Axial	587.9859	7.411844	7.406912	7.392157	7.436462
THALLIUM	190.856	Axial	0.7208674	0.001270288	-0.006973170	0.006063492	0.004720543
TIN	189.989	Axial	-0.4619231	-0.001568527	-0.0006613174	-0.002295107	-0.001749156
TITANIUM	334.941	Radial	95.46770	0.01020677	0.01024764	0.01091928	0.009453384
VANADIUM	292.402	Radial	-7.20955	0.0004993318	0.0008551488	0.0004465946	0.0001962519
ZINC	206.200	Axial	44.13434	-0.002366143	-0.002088712	-0.002542792	-0.002466923

Sample ID: L1253450-05 DF: 1x Batch: WG1531462 Units: mg/l

Analyzed: 08/27/20 16:23 Sequence: 51

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9907.482	9913.562	9901.688	9907.195
YTTRIUM	360.073	Axial	222932.0	223034.2	221134.5	224627.4
YTTRIUM	360.073	Radial	29477.04	29482.35	29569.25	29379.52
INDIUM	230.606	Axial	2704.759	2710.296	2697.313	2706.668

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.1558448	0.008037884	0.008952622	0.006549193	0.008611838
IRON	259.940	Radial	3367.636	3.117025	3.144851	3.101017	3.105206
LEAD	220.353	Axial	3.428565	0.002082614	0.001017028	0.003312460	0.001918354
ALUMINUM	308.215	Radial	48.89323	0.1816148	0.1815703	0.1675256	0.1957484
ANTIMONY	206.833	Axial	-0.2278616	-0.0007448153	-0.0002422667	0.00008347590	-0.002075655
BARIUM	233.527	Axial	668.4603	0.1783242	0.1786347	0.1775935	0.1787445
BERYLLIUM	313.042	Radial	22.51540	0.00006710518	0.00007392730	0.00004329300	0.00008409524
BORON	249.678	Radial	52.63304	0.06226300	0.06136593	0.05987483	0.06554824
CADMIUM	228.802	Axial	2.018178	0.0002705628	-0.0001358476	0.0002816453	0.0006658907
CALCIUM	373.690	Radial	108788.0	95.16121	95.07535	95.10646	95.30183
CERIUM	535.353	Radial	-5.56295	0.1251096	0.1577566	0.08781242	0.1297598
CHROMIUM	267.716	Axial	149.6742	0.02274856	0.02242872	0.02283633	0.02298064
COBALT	228.616	Axial	6.627364	0.002317241	0.002853678	0.002246749	0.001851297
COPPER	324.754	Axial	326.1601	0.01166808	0.01176767	0.01102019	0.01221638
LANTHANUM	333.749	Radial	10.38603	0.003697600	0.007889387	0.002920973	0.0002824391
LITHIUM	670.784	Radial	27.18218	0.004216971	0.003079700	0.005074090	0.004497123
MAGNESIUM	279.079	Radial	3152.003	26.48548	26.67356	26.28141	26.50148
MANGANESE	257.610	Axial	40499.78	0.6462955	0.6466876	0.6465882	0.6456107
MOLYBDENUM	202.030	Axial	0.5254918	0.0001129946	-0.0001426613	0.001305421	-0.0008237758
NICKEL	231.604	Axial	29.98867	0.01912957	0.01940937	0.01963463	0.01834470
PHOSPHORUS	177.495	Axial	21.15808	0.1080110	0.1066788	0.1077011	0.1096531
POTASSIUM	766.490	Radial	1256.701	2.431447	2.428547	2.453060	2.412733
SELENIUM	196.090	Axial	1.342830	0.004793781	0.006971267	0.007003702	0.0004063752
SILICON	251.611	Axial	13732.98	4.776118	4.782287	4.767910	4.778157
SILVER	328.068	Axial	-6.31682	-0.0001480084	0.000006502432	-0.0007223509	0.0002718232
SODIUM	818.326	Radial	2998.044	45.10416	45.10901	44.80013	45.40333
STRONTIUM	421.552	Radial	14047.90	0.1855677	0.1850451	0.1861579	0.1855002
SULFUR	182.034	Axial	1127.632	14.32786	14.36852	14.29295	14.32209
THALLIUM	190.856	Axial	0.1475954	-0.003111057	0.001350743	0.002424373	-0.01310829
TIN	189.989	Axial	-1.10920	-0.003763744	-0.003743142	-0.005304142	-0.002243947
TITANIUM	334.941	Radial	58.81371	0.005797632	0.006172877	0.005333484	0.005886536
VANADIUM	292.402	Radial	-4.35746	0.002211341	0.005447503	0.0005797826	0.0006067371
ZINC	206.200	Axial	56.00790	0.001993410	0.002176245	0.002040654	0.001763331

Sample ID: L1253450-06 DF: 1x Batch: WG1531462 Units: mg/l

Analyzed: 08/27/20 16:26 Sequence: 52

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9877.056	9877.149	9886.610	9867.410
YTTRIUM	360.073	Axial	222836.0	222492.0	222043.6	223972.6
YTTRIUM	360.073	Radial	29423.94	29320.16	29461.19	29490.46
INDIUM	230.606	Axial	2686.932	2686.517	2695.387	2678.892

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-1.11188	0.0004352309	-0.003633217	0.004047303	0.0008916070
IRON	259.940	Radial	2313.537	2.143449	2.172694	2.128729	2.128926
LEAD	220.353	Axial	2.916901	0.001243207	-0.001016382	0.003376841	0.001369161
ALUMINUM	308.215	Radial	10.32834	0.03185651	0.01264021	0.05852537	0.02440396
ANTIMONY	206.833	Axial	-1.41891	-0.005751971	-0.005257077	-0.008373044	-0.003625793
BARIUM	233.527	Axial	175.4430	0.04732150	0.04744153	0.04675163	0.04777136
BERYLLIUM	313.042	Radial	20.62237	0.00004900527	0.00006656782	0.0001222357	-0.00004178773
BORON	249.678	Radial	46.54680	0.05417544	0.05599368	0.05483981	0.05169281
CADMIUM	228.802	Axial	2.990883	0.0005019596	0.0006256400	0.0004405707	0.0004396680
CALCIUM	373.690	Radial	73431.05	64.30312	64.52668	64.29375	64.08891
CERIUM	535.353	Radial	-16.6211	0.09972073	0.06021078	0.1086233	0.1303281
CHROMIUM	267.716	Axial	955.6720	0.1513713	0.1513707	0.1508592	0.1518840
COBALT	228.616	Axial	79.30185	0.02595587	0.02595994	0.02550187	0.02640580
COPPER	324.754	Axial	554.5510	0.02476065	0.02477826	0.02486916	0.02463452
LANTHANUM	333.749	Radial	10.00965	0.003524553	0.005504313	-0.0003311709	0.005400518
LITHIUM	670.784	Radial	21.58471	0.003713086	0.003230052	0.003887409	0.004021797
MAGNESIUM	279.079	Radial	2515.689	21.18181	21.48618	21.10142	20.95783
MANGANESE	257.610	Axial	27819.04	0.4452117	0.4453229	0.4450831	0.4452289
MOLYBDENUM	202.030	Axial	8.043792	0.005827050	0.006146296	0.006019415	0.005315439
NICKEL	231.604	Axial	3548.735	2.202645	2.203089	2.200675	2.204171
PHOSPHORUS	177.495	Axial	20.79487	0.1064632	0.1086123	0.1026120	0.1081654
POTASSIUM	766.490	Radial	1301.229	2.525000	2.495662	2.589670	2.489668
SELENIUM	196.090	Axial	0.5736213	-0.001284215	-0.0008135734	0.006317510	-0.009356583
SILICON	251.611	Axial	8640.098	3.006179	3.007141	2.996905	3.014491
SILVER	328.068	Axial	-1.27478	0.0002052160	0.0006958179	0.0003243986	-0.0004045685
SODIUM	818.326	Radial	4534.432	67.76808	67.95477	68.01915	67.33031
STRONTIUM	421.552	Radial	5549.644	0.07306058	0.07321254	0.07266511	0.07330409
SULFUR	182.034	Axial	886.9320	11.30151	11.27676	11.34587	11.28188
THALLIUM	190.856	Axial	0.6335879	0.0006952187	-0.01020622	0.003648041	0.008643831
TIN	189.989	Axial	-1.18732	-0.004053717	-0.003586083	-0.002974834	-0.005600233
TITANIUM	334.941	Radial	38.63535	0.003313665	0.003014301	0.003122323	0.003804370
VANADIUM	292.402	Radial	-6.42333	0.0009374876	0.003941880	-0.00001652471	-0.001112893
ZINC	206.200	Axial	62.10412	0.004242910	0.004430956	0.004023397	0.004274377

Sample ID: L1253450-08 DF: 1x Batch: WG1531462 Units: mg/l

Analyzed: 08/27/20 16:28 Sequence: 53

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9954.610	9932.715	9974.151	9956.965
YTTRIUM	360.073	Axial	224177.1	224807.2	223251.3	224472.7
YTTRIUM	360.073	Radial	29585.08	29591.85	29649.08	29514.31
INDIUM	230.606	Axial	2730.695	2735.135	2726.233	2730.718

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.1436017	0.006250114	0.005857492	0.008261662	0.004631189
IRON	259.940	Radial	321.7739	0.2914305	0.2887676	0.2835620	0.3019618
LEAD	220.353	Axial	3.738905	0.002545155	0.004111889	0.0007016555	0.002821921
ALUMINUM	308.215	Radial	9.649935	0.02902561	0.007211335	0.05159949	0.02826600
ANTIMONY	206.833	Axial	0.6832960	0.003061340	0.006086769	0.003593986	-0.0004967330
BARIUM	233.527	Axial	405.5683	0.1078820	0.1080139	0.1080752	0.1075571
BERYLLIUM	313.042	Radial	21.35787	0.00005496109	0.00003964978	0.00009062638	0.00003460710
BORON	249.678	Radial	34.03178	0.03703302	0.03357593	0.03910810	0.03841502
CADMIUM	228.802	Axial	2.103192	0.0002878345	0.0001803804	0.0007160320	-0.00003290881
CALCIUM	373.690	Radial	96793.08	84.34346	84.35266	84.18280	84.49491
CERIUM	535.353	Radial	-20.3954	0.09105526	0.09293654	0.1073752	0.07285403
CHROMIUM	267.716	Axial	13.91129	0.001150913	0.0007366709	0.001706242	0.001009827
COBALT	228.616	Axial	0.4506461	0.0003217586	0.0002036878	0.0004181902	0.0003433979
COPPER	324.754	Axial	136.3508	0.0007624785	0.0002026121	0.001269257	0.0008155666
LANTHANUM	333.749	Radial	10.32468	0.003654419	0.003503975	0.001741849	0.005717433
LITHIUM	670.784	Radial	48.45499	0.006127637	0.007949721	0.005642985	0.004790203
MAGNESIUM	279.079	Radial	3677.577	30.78535	30.93552	30.41980	31.00075
MANGANESE	257.610	Axial	5894.627	0.09336844	0.09391221	0.09303218	0.09316092
MOLYBDENUM	202.030	Axial	2.194188	0.001370546	0.002860421	0.0008510046	0.0004002110
NICKEL	231.604	Axial	12.80039	0.008459112	0.008256533	0.008289881	0.008830922
PHOSPHORUS	177.495	Axial	9.304921	0.04640136	0.05411727	0.04641532	0.03867149
POTASSIUM	766.490	Radial	962.6323	1.837619	1.843083	1.854932	1.814841
SELENIUM	196.090	Axial	0.4293557	-0.002458147	-0.006270459	0.004903022	-0.006007005
SILICON	251.611	Axial	14816.06	5.130027	5.149096	5.107869	5.133115
SILVER	328.068	Axial	-7.66070	-0.0002394893	0.00006222922	0.00004332173	-0.0008240188
SODIUM	818.326	Radial	1716.879	26.21220	26.21881	26.38383	26.03395
STRONTIUM	421.552	Radial	7751.874	0.1017413	0.1012790	0.1024679	0.1014771
SULFUR	182.034	Axial	1123.872	14.21242	14.23036	14.17322	14.23368
THALLIUM	190.856	Axial	1.033642	0.003686725	0.006093061	0.002791326	0.002175789
TIN	189.989	Axial	-1.31291	-0.004404812	-0.003961815	-0.003817275	-0.005435345
TITANIUM	334.941	Radial	42.35799	0.003746089	0.004037200	0.003667950	0.003533117
VANADIUM	292.402	Radial	-6.27606	0.001044113	-0.002166038	0.002799896	0.002498479
ZINC	206.200	Axial	15.03862	-0.01268894	-0.01277491	-0.01283509	-0.01245680

Sample ID: L1253450-09 DF: 1x Batch: WG1531462 Units: mg/l

Analyzed: 08/27/20 16:31 Sequence: 54

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9891.710	9898.969	9887.436	9888.725
YTTRIUM	360.073	Axial	224471.4	224654.8	225816.2	222943.2
YTTRIUM	360.073	Radial	29533.25	29472.98	29631.47	29495.30
INDIUM	230.606	Axial	2693.739	2694.122	2690.605	2696.491

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.2418637	0.005657348	0.006091763	0.004100433	0.006779850
IRON	259.940	Radial	1686.233	1.554839	1.553700	1.550799	1.560017
LEAD	220.353	Axial	2.860240	0.001136268	-0.0006774633	0.001798072	0.002288196
ALUMINUM	308.215	Radial	15.51524	0.05184335	0.04766953	0.05010631	0.05775421
ANTIMONY	206.833	Axial	-0.9514628	-0.003782960	-0.004148709	-0.005988588	-0.001211584
BARIUM	233.527	Axial	173.8161	0.04681845	0.04659839	0.04702821	0.04682875
BERYLLIUM	313.042	Radial	22.63770	0.00006780684	0.00006635264	0.00008604342	0.00005102447
BORON	249.678	Radial	47.68851	0.05546739	0.05226936	0.05937371	0.05475909
CADMIUM	228.802	Axial	0.6963112	-0.00004082117	-0.0001952832	0.0004090598	-0.0003362402
CALCIUM	373.690	Radial	73184.19	63.84837	63.88820	63.80590	63.85100
CERIUM	535.353	Radial	-26.5120	0.07701194	0.03264379	0.09308270	0.1053093
CHROMIUM	267.716	Axial	667.4134	0.1052386	0.1055227	0.1046791	0.1055139
COBALT	228.616	Axial	75.97759	0.02481210	0.02470550	0.02503871	0.02469208
COPPER	324.754	Axial	548.1327	0.02416478	0.02383458	0.02417430	0.02448546
LANTHANUM	333.749	Radial	13.26092	0.005122677	0.005333051	0.005195715	0.004839266
LITHIUM	670.784	Radial	22.39560	0.003779636	0.003463025	0.003981015	0.003894869
MAGNESIUM	279.079	Radial	2516.368	21.10866	21.14155	21.09245	21.09198
MANGANESE	257.610	Axial	26996.72	0.4314025	0.4302258	0.4320863	0.4318955
MOLYBDENUM	202.030	Axial	7.656874	0.005524568	0.005659790	0.005140551	0.005773364
NICKEL	231.604	Axial	3617.097	2.239391	2.237892	2.243775	2.236506
PHOSPHORUS	177.495	Axial	16.53043	0.08418165	0.08126945	0.08425276	0.08702273
POTASSIUM	766.490	Radial	1336.405	2.585445	2.600096	2.601683	2.554556
SELENIUM	196.090	Axial	0.6953791	-0.0003197263	-0.002670281	0.006664474	-0.004953372
SILICON	251.611	Axial	8454.488	2.936742	2.932022	2.945218	2.932986
SILVER	328.068	Axial	-3.81448	0.00002698980	0.0005986315	-0.0001233658	-0.0003942963
SODIUM	818.326	Radial	4653.908	69.27060	69.00813	69.29052	69.51315
STRONTIUM	421.552	Radial	5418.200	0.07104873	0.07110195	0.07106686	0.07097737
SULFUR	182.034	Axial	903.0899	11.49058	11.50168	11.49842	11.47163
THALLIUM	190.856	Axial	1.236274	0.005370213	0.01696442	-0.009242660	0.008388882
TIN	189.989	Axial	-1.14353	-0.003893530	-0.002748359	-0.004929607	-0.004002624
TITANIUM	334.941	Radial	37.66872	0.003178230	0.003107303	0.002689535	0.003737853
VANADIUM	292.402	Radial	-4.11981	0.002362196	0.001518666	0.002626756	0.002941167
ZINC	206.200	Axial	62.54635	0.004368383	0.004030970	0.004157439	0.004916739

Sample ID: L1253450-10 DF: 1x Batch: WG1531462 Units: mg/l

Analyzed: 08/27/20 16:34 Sequence: 55

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9791.633	9814.520	9782.354	9778.026
YTTRIUM	360.073	Axial	220503.4	220685.1	221804.6	219020.4
YTTRIUM	360.073	Radial	29450.93	29494.27	29339.67	29518.84
INDIUM	230.606	Axial	2651.295	2654.041	2650.715	2649.128

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-1.11620	0.0003516964	-0.0001602847	0.006400958	-0.005185584
IRON	259.940	Radial	137.6622	0.1218852	0.1229728	0.1209641	0.1217187
LEAD	220.353	Axial	3.123888	0.001672216	-0.001166229	0.002689304	0.003493574
ALUMINUM	308.215	Radial	6.482879	0.01688115	0.02142393	0.006814739	0.02240478
ANTIMONY	206.833	Axial	0.7588880	0.003433606	-0.002124116	0.006016462	0.006408473
BARIUM	233.527	Axial	360.0588	0.09742054	0.09700002	0.09780513	0.09745648
BERYLLIUM	313.042	Radial	19.83341	0.00004106050	0.00003647977	0.00004479387	0.00004190786
BORON	249.678	Radial	32.11401	0.03466157	0.03217095	0.03793036	0.03388342
CADMIUM	228.802	Axial	1.387305	0.0001251642	0.0005667504	-0.0005381961	0.0003469383
CALCIUM	373.690	Radial	127842.5	111.9533	111.6151	112.1560	112.0889
CERIUM	535.353	Radial	9.208553	0.1590239	0.1867941	0.1301433	0.1601343
CHROMIUM	267.716	Axial	308.5730	0.04859399	0.04854810	0.04928856	0.04794530
COBALT	228.616	Axial	2.392060	0.0009656968	0.0006605513	0.0009575385	0.001279001
COPPER	324.754	Axial	139.0509	0.001048346	0.001029823	0.0007133835	0.001401831
LANTHANUM	333.749	Radial	11.00576	0.004015436	0.002991667	0.004414920	0.004639721
LITHIUM	670.784	Radial	54.64457	0.006709969	0.005820141	0.007012352	0.007297415
MAGNESIUM	279.079	Radial	4329.703	36.40518	36.21360	36.62683	36.37511
MANGANESE	257.610	Axial	5397.395	0.08689462	0.08670541	0.08701159	0.08696687
MOLYBDENUM	202.030	Axial	1.971723	0.001226324	0.0009541298	0.001612388	0.001112454
NICKEL	231.604	Axial	13.00778	0.008823835	0.008356644	0.008903616	0.009211246
PHOSPHORUS	177.495	Axial	8.579288	0.04338832	0.04538573	0.04398572	0.04079351
POTASSIUM	766.490	Radial	1327.604	2.575339	2.603924	2.575959	2.546135
SELENIUM	196.090	Axial	0.2996507	-0.003430420	-0.005654980	-0.002632231	-0.002004050
SILICON	251.611	Axial	13151.94	4.627538	4.588934	4.643848	4.649831
SILVER	328.068	Axial	-5.74488	-0.0001120360	-0.0005334772	0.0001181233	0.00007924596
SODIUM	818.326	Radial	5542.196	82.50714	82.52069	82.58984	82.41089
STRONTIUM	421.552	Radial	7499.306	0.09885824	0.09838513	0.09918215	0.09900743
SULFUR	182.034	Axial	1507.391	19.38432	19.32974	19.41565	19.40758
THALLIUM	190.856	Axial	0.3643907	-0.001374703	-0.002635721	0.001232160	-0.002720549
TIN	189.989	Axial	-1.52767	-0.005272311	-0.004628191	-0.007770666	-0.003418077
TITANIUM	334.941	Radial	42.20262	0.003751110	0.004147521	0.003869787	0.003236023
VANADIUM	292.402	Radial	-6.38679	0.0009565036	0.0008507496	0.0001500466	0.001868715
ZINC	206.200	Axial	46.72235	-0.001130692	-0.001145119	-0.001309552	-0.0009374068

Sample ID: L1253450-11 DF: 1x Batch: WG1531462 Units: mg/l

Analyzed: 08/27/20 16:37 Sequence: 56

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9723.690	9737.871	9710.575	9722.624
YTTRIUM	360.073	Axial	220438.5	220085.2	221159.1	220071.2
YTTRIUM	360.073	Radial	29258.37	29468.17	28918.38	29388.54
INDIUM	230.606	Axial	2609.300	2611.851	2603.296	2612.754

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-1.54359	-0.002298163	-0.004180675	-0.001259733	-0.001454081
IRON	259.940	Radial	491.2116	0.4530743	0.4499438	0.4599060	0.4493731
LEAD	220.353	Axial	2.303256	0.0003159884	0.0009156856	0.001558010	-0.001525730
ALUMINUM	308.215	Radial	7.026153	0.01915531	0.02684325	0.01364475	0.01697793
ANTIMONY	206.833	Axial	-0.2071160	-0.0006731940	-0.002926695	-0.0007444686	0.001651581
BARIUM	233.527	Axial	141.5540	0.03887421	0.03898599	0.03867968	0.03895695
BERYLLIUM	313.042	Radial	22.10647	0.00006477085	0.00007477336	0.00008284584	0.00003669334
BORON	249.678	Radial	42.56424	0.04914306	0.04556777	0.05238064	0.04948076
CADMIUM	228.802	Axial	1.177453	0.00007732827	0.00009906415	-0.0003591296	0.0004920503
CALCIUM	373.690	Radial	109734.4	96.71444	96.18431	97.70956	96.24944
CERIUM	535.353	Radial	-5.10983	0.1261499	0.1071242	0.1642969	0.1070287
CHROMIUM	267.716	Axial	463.6604	0.07406603	0.07401099	0.07392251	0.07426458
COBALT	228.616	Axial	3.275977	0.001274401	0.001346754	0.001550540	0.0009259082
COPPER	324.754	Axial	149.3466	0.001646004	0.002171855	0.001247140	0.001519015
LANTHANUM	333.749	Radial	10.09225	0.003582455	0.004166726	0.001926635	0.004654003
LITHIUM	670.784	Radial	14.34610	0.003065605	0.002629767	0.003212526	0.003354522
MAGNESIUM	279.079	Radial	2397.724	20.30449	20.29275	20.53966	20.08107
MANGANESE	257.610	Axial	792.1646	0.01259000	0.01260529	0.01265175	0.01251297
MOLYBDENUM	202.030	Axial	1.027788	0.0005079049	0.0009024073	0.0008467651	-0.0002254576
NICKEL	231.604	Axial	24.81800	0.01650248	0.01722497	0.01723738	0.01504509
PHOSPHORUS	177.495	Axial	6.569382	0.03309649	0.03465156	0.02903956	0.03559834
POTASSIUM	766.490	Radial	961.0841	1.856266	1.805726	1.914358	1.848715
SELENIUM	196.090	Axial	0.9094050	0.001498276	0.004343112	0.0007972255	-0.0006455111
SILICON	251.611	Axial	11178.89	3.957666	3.932487	3.974425	3.966085
SILVER	328.068	Axial	-3.52423	0.00004352596	-0.0002901569	0.0001583310	0.0002624038
SODIUM	818.326	Radial	10859.69	161.6604	160.8526	163.1855	160.9432
STRONTIUM	421.552	Radial	13701.30	0.1823396	0.1814672	0.1836928	0.1818589
SULFUR	182.034	Axial	791.5463	10.24400	10.23104	10.26252	10.23844
THALLIUM	190.856	Axial	1.086023	0.004481412	0.001524998	0.005936287	0.005982949
TIN	189.989	Axial	-1.36625	-0.004795433	-0.004913762	-0.005808001	-0.003664535
TITANIUM	334.941	Radial	54.49699	0.005313588	0.005674366	0.005225576	0.005040821
VANADIUM	292.402	Radial	-7.61504	0.0001684232	0.001128793	0.00002342800	-0.0006469513
ZINC	206.200	Axial	12.54390	-0.01347117	-0.01336668	-0.01339392	-0.01365292

Sample ID: L1253450-12 DF: 1x Batch: WG1531462 Units: mg/l

Analyzed: 08/27/20 16:40 Sequence: 57

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9668.272	9657.726	9691.983	9655.108
YTTRIUM	360.073	Axial	218046.3	218110.0	217482.9	218545.9
YTTRIUM	360.073	Radial	29158.03	29165.17	29106.42	29202.49
INDIUM	230.606	Axial	2594.905	2598.102	2592.466	2594.148

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-1.04401	0.0007134229	0.007369006	-0.003928109	-0.001300628
IRON	259.940	Radial	617.7430	0.5732353	0.5726187	0.5746217	0.5724656
LEAD	220.353	Axial	2.623913	0.0009042560	0.001266673	0.003095671	-0.001649575
ALUMINUM	308.215	Radial	8.578158	0.02536063	0.04183506	0.001525582	0.03272124
ANTIMONY	206.833	Axial	0.5372843	0.002518909	0.002169082	0.0007869361	0.004600708
BARIUM	233.527	Axial	314.7039	0.08629346	0.08654592	0.08613706	0.08619738
BERYLLIUM	313.042	Radial	17.09819	0.00001600067	-0.000007078265	0.00001692906	0.00003815122
BORON	249.678	Radial	45.15231	0.05284584	0.05040620	0.05403325	0.05409808
CADMIUM	228.802	Axial	0.8549910	0.000001060923	-0.0002319333	0.0001584246	0.00007669148
CALCIUM	373.690	Radial	116520.4	103.0517	103.0957	102.9960	103.0635
CERIUM	535.353	Radial	-12.0255	0.1102720	0.1044663	0.1023067	0.1240428
CHROMIUM	267.716	Axial	514.5132	0.08278290	0.08293319	0.08230694	0.08310856
COBALT	228.616	Axial	5.053982	0.001878285	0.002317421	0.001510087	0.001807346
COPPER	324.754	Axial	153.5977	0.001989268	0.002309413	0.001989418	0.001668972
LANTHANUM	333.749	Radial	7.054919	0.002077552	0.0000003271129	0.003247291	0.002985038
LITHIUM	670.784	Radial	33.39440	0.004813771	0.003696812	0.005649744	0.005094758
MAGNESIUM	279.079	Radial	3262.852	27.71559	27.67632	27.72766	27.74277
MANGANESE	257.610	Axial	1808.126	0.02928540	0.02942668	0.02919584	0.02923369
MOLYBDENUM	202.030	Axial	1.043579	0.0005256437	0.001500542	-0.0002251947	0.0003015835
NICKEL	231.604	Axial	68.04964	0.04436655	0.04391405	0.04518171	0.04400389
PHOSPHORUS	177.495	Axial	3.390022	0.01642168	0.02072757	0.01824353	0.01029393
POTASSIUM	766.490	Radial	1913.842	3.784628	3.760778	3.795131	3.797975
SELENIUM	196.090	Axial	0.2775615	-0.003579160	-0.002407819	-0.005562878	-0.002766783
SILICON	251.611	Axial	13621.32	4.854886	4.854882	4.826595	4.883181
SILVER	328.068	Axial	-9.60174	-0.0003945977	-0.0002161050	-0.0006459569	-0.0003217313
SODIUM	818.326	Radial	11767.01	175.6634	175.6450	175.8913	175.4539
STRONTIUM	421.552	Radial	8678.657	0.1156599	0.1154775	0.1156977	0.1158045
SULFUR	182.034	Axial	1037.903	13.51335	13.56870	13.48762	13.48373
THALLIUM	190.856	Axial	1.030599	0.004083898	-0.001137832	0.01029609	0.003093436
TIN	189.989	Axial	-0.9979074	-0.003529567	-0.003837017	-0.003166325	-0.003585360
TITANIUM	334.941	Radial	47.48021	0.004461746	0.004171231	0.004443265	0.004770741
VANADIUM	292.402	Radial	-4.77780	0.001920238	0.001631918	0.001788981	0.002339815
ZINC	206.200	Axial	14.87785	-0.01258928	-0.01249452	-0.01261848	-0.01265483

Sample ID: L1253450-13 DF: 1x Batch: WG1531462 Units: mg/l

Analyzed: 08/27/20 16:43 Sequence: 58

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9926.680	9946.773	9923.296	9909.971
YTTRIUM	360.073	Axial	224729.4	224515.1	224628.8	225044.3
YTTRIUM	360.073	Radial	29748.31	29924.42	29506.33	29814.17
INDIUM	230.606	Axial	2753.878	2753.648	2744.865	2763.121

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.4660289	0.004323858	0.004745838	0.004926944	0.003298790
IRON	259.940	Radial	3499.084	3.209301	3.187778	3.193210	3.246915
LEAD	220.353	Axial	3.552093	0.002182009	0.004185036	0.0007795849	0.001581405
ALUMINUM	308.215	Radial	12.04330	0.03805445	0.03321024	0.03872197	0.04223113
ANTIMONY	206.833	Axial	0.5591551	0.002546027	0.001577377	0.009814839	-0.003754135
BARIUM	233.527	Axial	200.1892	0.05365730	0.05336742	0.05406145	0.05354304
BERYLLIUM	313.042	Radial	18.98468	0.00003076455	0.00003585065	-0.000009048162	0.00006549117
BORON	249.678	Radial	47.97766	0.05537910	0.06032736	0.05206826	0.05374167
CADMIUM	228.802	Axial	0.5819148	-0.00006855870	0.0001400837	-0.0002677398	-0.00007802002
CALCIUM	373.690	Radial	105678.1	91.59404	91.37930	91.99944	91.40337
CERIUM	535.353	Radial	-13.9538	0.1058448	0.08245821	0.1107449	0.1243314
CHROMIUM	267.716	Axial	5341.353	0.8465912	0.8422030	0.8516206	0.8459501
COBALT	228.616	Axial	31.11825	0.01004707	0.01003812	0.01020236	0.009900739
COPPER	324.754	Axial	219.7394	0.005477839	0.005460619	0.005202456	0.005770442
LANTHANUM	333.749	Radial	8.537865	0.002743307	0.001935679	0.003483593	0.002810650
LITHIUM	670.784	Radial	60.32071	0.007165829	0.007284527	0.006123681	0.008089280
MAGNESIUM	279.079	Radial	2752.888	22.92404	22.80085	22.95647	23.01480
MANGANESE	257.610	Axial	37190.11	0.5923101	0.5897268	0.5929844	0.5942193
MOLYBDENUM	202.030	Axial	8.154406	0.005880966	0.005546885	0.005450892	0.006645121
NICKEL	231.604	Axial	273.1465	0.1660096	0.1655597	0.1653906	0.1670786
PHOSPHORUS	177.495	Axial	7.843691	0.03897939	0.03830337	0.03546540	0.04316940
POTASSIUM	766.490	Radial	1156.904	2.211282	2.209884	2.208222	2.215739
SELENIUM	196.090	Axial	0.9727897	0.001853736	-0.001549586	0.004519405	0.002591389
SILICON	251.611	Axial	17181.15	5.969204	5.936964	5.968061	6.002586
SILVER	328.068	Axial	0.9595251	0.0003619256	0.0007344033	0.0001523431	0.0001990303
SODIUM	818.326	Radial	4247.326	62.86703	62.69116	62.98196	62.92797
STRONTIUM	421.552	Radial	12685.38	0.1659746	0.1661468	0.1657562	0.1660207
SULFUR	182.034	Axial	1046.320	13.26810	13.24903	13.21738	13.33790
THALLIUM	190.856	Axial	0.6175905	0.0004550263	0.002476526	0.002336426	-0.003447872
TIN	189.989	Axial	-1.61433	-0.005359980	-0.004570238	-0.004233006	-0.007276697
TITANIUM	334.941	Radial	49.32261	0.004574108	0.003929372	0.005621617	0.004171334
VANADIUM	292.402	Radial	-11.0949	-0.001871727	-0.001579135	-0.0005398435	-0.003496204
ZINC	206.200	Axial	19.82237	-0.01096605	-0.01073344	-0.01102764	-0.01113707

Sample ID: CCV Units: mg/l

Analyzed: 08/27/20 16:45 Sequence: 59 Standard ID: 20H10527

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10158.91	10142.77	10163.72	10170.24
YTTRIUM	360.073	Axial	227352.6	229115.5	226366.7	226575.6
YTTRIUM	360.073	Radial	30138.11	30224.76	30120.86	30068.71
INDIUM	230.606	Axial	2768.952	2756.056	2783.984	2766.816

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	2535.314	9.621971	9.628548	9.603959	9.633405
ANTIMONY	206.833	Axial	117.2371	0.4792566	0.4770485	0.4850541	0.4756674
ARSENIC	189.042	Axial	164.4102	0.9660175	0.9598210	0.9725749	0.9656567
BARIUM	233.527	Axial	1862.460	0.4836770	0.4831325	0.4837583	0.4841402
BERYLLIUM	313.042	Radial	19888.45	0.1897252	0.1893225	0.1893631	0.1904901
BORON	249.678	Radial	725.9765	0.9478283	0.9411796	0.9433520	0.9589531
CADMIUM	228.802	Axial	2139.927	0.4917938	0.4889922	0.4953052	0.4910841
CALCIUM	317.933	Radial	104909.4	47.71968	47.70150	47.76614	47.69141
CHROMIUM	267.716	Axial	6082.306	0.9421121	0.9474885	0.9404452	0.9384024
COBALT	228.616	Axial	3069.323	0.9683233	0.9688182	0.9680530	0.9680988
COPPER	324.754	Axial	17057.18	0.9505447	0.9482454	0.9507451	0.9526436
IRON	259.940	Radial	10262.26	9.301875	9.295244	9.306075	9.304305
LEAD	220.353	Axial	285.3296	0.4691533	0.4700155	0.4671375	0.4703068
LITHIUM	670.784	Radial	10512.73	0.9331835	0.9309174	0.9343815	0.9342518
MAGNESIUM	279.079	Radial	1136.065	9.351337	9.404718	9.299486	9.349807
MANGANESE	257.610	Axial	59740.94	0.9298832	0.9325275	0.9293698	0.9277522
MOLYBDENUM	202.030	Axial	333.2514	0.2459343	0.2457402	0.2477838	0.2442789
NICKEL	231.604	Axial	1584.025	0.9544129	0.9538062	0.9576083	0.9518241
PHOSPHORUS	177.495	Axial	193.2196	0.9743456	0.9664562	0.9847698	0.9718108
POTASSIUM	766.490	Radial	24070.33	46.90350	46.81403	46.98991	46.90655
SELENIUM	196.090	Axial	122.5471	0.9399016	0.9219377	0.9506888	0.9470784
SILICON	251.611	Axial	6726.253	2.270040	2.207233	2.270205	2.332684
SILVER	328.068	Axial	6820.487	0.4667808	0.4698401	0.4654157	0.4650866
SODIUM	818.326	Radial	3249.736	47.75102	47.58922	47.74302	47.92082
STRONTIUM	421.552	Radial	73133.51	0.9474637	0.9454665	0.9467722	0.9501524
SULFUR	182.034	Axial	371.2206	4.591391	4.580672	4.608204	4.585296
THALLIUM	190.856	Axial	124.3075	0.9386312	0.9387926	0.9300095	0.9470916
TIN	189.989	Axial	142.1639	0.4668292	0.4655986	0.4703757	0.4645134
TITANIUM	334.941	Radial	8000.319	0.9646488	0.9652350	0.9647540	0.9639573
VANADIUM	292.402	Radial	1564.926	0.9476580	0.9480725	0.9443316	0.9505699
ZINC	206.200	Axial	2796.811	0.9577598	0.9534702	0.9619679	0.9578414
CERIUM	535.353	Radial	-26.1511	0.07784068	0.04226593	0.09596227	0.09529385
LANTHANUM	333.749	Radial	13.17626	0.004947649	0.005057675	0.006736865	0.003048409

Sample ID: CCB Units: mg/l

Analyzed: 08/27/20 16:48 Sequence: 60

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10622.45	10637.04	10603.00	10627.31
YTTRIUM	360.073	Axial	242155.7	241376.4	241809.2	243281.4
YTTRIUM	360.073	Radial	30675.99	30714.81	30432.08	30881.09
INDIUM	230.606	Axial	2988.360	3021.825	2974.493	2968.763

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	8.668379	0.02400674	0.007873538	0.02113424	0.04301244
ANTIMONY	206.833	Axial	1.845846	0.007425531	0.005385137	0.009790614	0.007100842
ARSENIC	189.042	Axial	-0.6974223	0.003215960	0.003229402	0.002973786	0.003444693
BARIUM	233.527	Axial	-1.21649	0.0002060896	0.0001424537	0.00007786492	0.0003979503
BERYLLIUM	313.042	Radial	19.39889	0.00002911260	0.00001698621	0.000007436621	0.00006291497
BORON	249.678	Radial	7.772857	0.001409070	0.002101424	-0.001093094	0.003218880
CADMIUM	228.802	Axial	2.359502	0.0003132217	0.0006496092	0.00008186739	0.0002081885
CALCIUM	317.933	Radial	90.24965	-0.1182189	-0.1137485	-0.1204222	-0.1204859
CERIUM	535.353	Radial	-66.2540	-0.01423274	-0.02438233	-0.02331472	0.004998821
CHROMIUM	267.716	Axial	8.416667	0.0001989630	-0.0007372206	0.0006710823	0.0006630273
COBALT	228.616	Axial	-0.8048928	-0.00006127076	0.0005508332	-0.0002033046	-0.0005313409
COPPER	324.754	Axial	121.0417	-0.0006224473	-0.0006079440	-0.0008964867	-0.0003629113
IRON	259.940	Radial	7.373024	0.0006924898	0.0004261463	0.002239897	-0.0005885740
LANTHANUM	333.749	Radial	4.915897	0.0008823855	0.001953857	0.001911087	-0.001217787
LEAD	220.353	Axial	2.787182	0.0005382782	0.001614614	-0.0008996594	0.0008998804
LITHIUM	670.784	Radial	-29.9739	-0.0008527446	-0.001636624	-0.0003099114	-0.0006116985
MAGNESIUM	279.079	Radial	-4.77826	-0.01555264	-0.03539551	0.02082282	-0.03208522
MANGANESE	257.610	Axial	16.94444	-0.00004390941	-0.00007936259	-0.00006250510	0.00001013946
MOLYBDENUM	202.030	Axial	0.3808467	-0.00001674128	0.0007947767	-0.0002932408	-0.0005517597
NICKEL	231.604	Axial	-0.3401738	0.0004568686	-0.0001274253	0.001271694	0.0002263370
PHOSPHORUS	177.495	Axial	0.2292476	-0.0004603349	-0.0007107922	-0.001566928	0.0008967156
POTASSIUM	766.490	Radial	9.741421	-0.05758639	-0.03309884	-0.05844743	-0.08121291
SELENIUM	196.090	Axial	1.146238	0.002626034	0.003978682	0.001057426	0.002841996
SILICON	251.611	Axial	84.80556	0.006011140	0.002062192	0.006722043	0.009249185
SILVER	328.068	Axial	-1.50000	0.0001971058	0.0003522858	0.0003770430	-0.0001380114
SODIUM	589.592	Radial	187.9936	-0.02526766	-0.01653509	-0.03337063	-0.02589726
STRONTIUM	421.552	Radial	39.55152	-0.0001262868	-0.00007022981	-0.00005980914	-0.0002488216
SULFUR	182.034	Axial	1.434646	0.004258720	0.01151872	-0.009669757	0.01092720
THALLIUM	190.856	Axial	0.6542688	0.0003304199	0.001211496	0.002081493	-0.002301730
TIN	189.989	Axial	0.9300997	0.002798700	0.002367501	0.004730162	0.001298437
TITANIUM	334.941	Radial	17.23487	0.0005802435	-0.0007344424	0.001063964	0.001411209
VANADIUM	292.402	Radial	-9.26284	-0.0005945250	-0.001560019	-0.001812825	0.001589269
ZINC	206.200	Axial	0.3364762	-0.01793144	-0.01771464	-0.01798428	-0.01809540

Sample ID: L1253450-14 DF: 1x Batch: WG1531462 Units: mg/l

Analyzed: 08/27/20 16:51 Sequence: 61

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9884.419	9895.720	9874.506	9883.030
YTTRIUM	360.073	Axial	225108.3	225472.9	224406.4	225445.5
YTTRIUM	360.073	Radial	29563.52	29593.40	29476.32	29620.82
INDIUM	230.606	Axial	2719.814	2731.753	2708.106	2719.582

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.8593025	0.001953823	0.007019744	0.004333700	-0.005491976
IRON	259.940	Radial	179.2952	0.1598950	0.1590643	0.1602010	0.1604197
LEAD	220.353	Axial	3.161796	0.001595491	0.002395335	0.0003687013	0.002022438
ALUMINUM	308.215	Radial	9.319505	0.02779089	0.02745449	0.02929382	0.02662435
ANTIMONY	206.833	Axial	0.3718859	0.001771795	-0.00007255500	-0.0003696829	0.005757622
BARIUM	233.527	Axial	206.3053	0.05551507	0.05559223	0.05548481	0.05546815
BERYLLIUM	313.042	Radial	18.13945	0.00002383133	0.000007257918	0.00002806711	0.00003616896
BORON	249.678	Radial	47.29476	0.05488009	0.05875743	0.05437254	0.05151030
CADMIUM	228.802	Axial	1.867527	0.0002358898	0.0003229958	0.00003394379	0.0003507298
CALCIUM	373.690	Radial	111930.9	97.62768	97.51778	97.71278	97.65249
CERIUM	535.353	Radial	-7.34231	0.1210243	0.1055434	0.1295687	0.1279608
CHROMIUM	267.716	Axial	484.9082	0.07623068	0.07641658	0.07567097	0.07660448
COBALT	228.616	Axial	5.132901	0.001824815	0.002108984	0.001420280	0.001945180
COPPER	324.754	Axial	169.3390	0.002599309	0.002396575	0.002478317	0.002923036
LANTHANUM	333.749	Radial	8.973942	0.002975256	0.004080277	-0.002049287	0.006894779
LITHIUM	670.784	Radial	61.84743	0.007341209	0.006229929	0.007489526	0.008304171
MAGNESIUM	279.079	Radial	3135.064	26.26612	26.27475	26.29746	26.22615
MANGANESE	257.610	Axial	36164.88	0.5784347	0.5777894	0.5779415	0.5795733
MOLYBDENUM	202.030	Axial	4.053169	0.002792327	0.002902324	0.002643344	0.002831313
NICKEL	231.604	Axial	13.21749	0.008746427	0.008555291	0.008812745	0.008871245
PHOSPHORUS	177.495	Axial	6.116975	0.03018758	0.02930941	0.03160950	0.02964384
POTASSIUM	766.490	Radial	1112.854	2.137952	2.132802	2.144853	2.136202
SELENIUM	196.090	Axial	1.043070	0.002443485	-0.001351782	0.005363994	0.003318243
SILICON	251.611	Axial	17829.42	6.221785	6.214878	6.215435	6.235040
SILVER	328.068	Axial	-4.53259	-0.00002351743	-0.00004962586	-0.0001844133	0.0001634869
SODIUM	818.326	Radial	5229.453	77.62132	77.60883	77.56664	77.68848
STRONTIUM	421.552	Radial	10768.88	0.1416886	0.1412585	0.1416180	0.1421893
SULFUR	182.034	Axial	1176.690	14.98668	15.00261	14.97737	14.98007
THALLIUM	190.856	Axial	0.9590243	0.003139249	0.004927212	0.001576238	0.002914297
TIN	189.989	Axial	-1.35399	-0.004562615	-0.003344875	-0.005320419	-0.005022551
TITANIUM	334.941	Radial	45.92740	0.004190014	0.003598316	0.004652578	0.004319148
VANADIUM	292.402	Radial	-4.48807	0.002142059	0.001319730	0.004024684	0.001081762
ZINC	206.200	Axial	19.20127	-0.01115824	-0.01110086	-0.01105276	-0.01132111

Sample ID: L1253450-15 DF: 1x Batch: WG1531462 Units: mg/l

Analyzed: 08/27/20 16:54 Sequence: 62

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9858.378	9848.237	9878.239	9848.657
YTTRIUM	360.073	Axial	222947.7	223491.0	222684.2	222667.8
YTTRIUM	360.073	Radial	29437.23	29442.35	29359.27	29510.06
INDIUM	230.606	Axial	2675.174	2676.048	2676.363	2673.113

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-1.56420	-0.002292667	0.0008624397	-0.004527893	-0.003212548
IRON	259.940	Radial	1995.219	1.846882	1.847945	1.869220	1.823481
LEAD	220.353	Axial	4.083541	0.003268006	0.004024630	0.004084410	0.001694979
ALUMINUM	308.215	Radial	43.22185	0.1597746	0.1846312	0.1419567	0.1527357
ANTIMONY	206.833	Axial	0.6004231	0.002741350	0.006899779	-0.0004981338	0.001822404
BARIUM	233.527	Axial	141.4914	0.03833320	0.03796141	0.03857395	0.03846422
BERYLLIUM	313.042	Radial	19.56438	0.00003853323	0.00004661136	0.00004570880	0.00002327952
BORON	249.678	Radial	46.89728	0.05461561	0.05058237	0.05615189	0.05711258
CADMIUM	228.802	Axial	2.381130	0.0003589020	0.0003418725	0.0002922309	0.0004426027
CALCIUM	373.690	Radial	95066.51	83.25317	83.24627	83.38895	83.12430
CERIUM	535.353	Radial	-10.4013	0.1140011	0.1124606	0.1352993	0.09424347
CHROMIUM	267.716	Axial	1788.525	0.2847445	0.2864040	0.2841710	0.2836584
COBALT	228.616	Axial	12.65372	0.004308456	0.005096980	0.004284051	0.003544338
COPPER	324.754	Axial	184.8774	0.003581595	0.003942598	0.003468593	0.003333595
LANTHANUM	333.749	Radial	12.04219	0.004533330	0.004534945	0.003360399	0.005704648
LITHIUM	670.784	Radial	15.92623	0.003200599	0.004530233	0.003071427	0.002000136
MAGNESIUM	279.079	Radial	2358.395	19.84954	19.93475	19.91538	19.69850
MANGANESE	257.610	Axial	3392.633	0.05413832	0.05431133	0.05384870	0.05425494
MOLYBDENUM	202.030	Axial	2.585549	0.001683039	0.001674902	0.001798310	0.001575905
NICKEL	231.604	Axial	65.04079	0.04117893	0.04226627	0.04048170	0.04078881
PHOSPHORUS	177.495	Axial	9.939032	0.05016133	0.04966819	0.05252747	0.04828834
POTASSIUM	766.490	Radial	1782.459	3.485520	3.496013	3.508856	3.451690
SELENIUM	196.090	Axial	0.9171646	0.001458699	0.004670370	0.004389233	-0.004683505
SILICON	251.611	Axial	15693.09	5.488223	5.486691	5.479369	5.498609
SILVER	328.068	Axial	-2.84433	0.00009388679	-0.0003010254	0.0008651046	-0.0002824188
SODIUM	818.326	Radial	6789.967	100.8782	100.0644	100.9887	101.5816
STRONTIUM	421.552	Radial	15511.17	0.2052414	0.2051286	0.2052563	0.2053392
SULFUR	182.034	Axial	963.6031	12.30289	12.30682	12.29685	12.30500
THALLIUM	190.856	Axial	0.5135509	-0.0002299540	-0.002035221	0.002064950	-0.0007195909
TIN	189.989	Axial	-1.75019	-0.005982083	-0.006378911	-0.005492275	-0.006075065
TITANIUM	334.941	Radial	65.11618	0.006587060	0.006789721	0.007059817	0.005911641
VANADIUM	292.402	Radial	-8.55074	-0.0003795913	0.0007466721	-0.001620027	-0.0002654191
ZINC	206.200	Axial	21.37557	-0.01035811	-0.01001954	-0.01057016	-0.01048462

Sample ID: L1253450-16 DF: 1x Batch: WG1531462 Units: mg/l

Analyzed: 08/27/20 16:57 Sequence: 63

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9927.222	9953.630	9917.400	9910.637
YTTRIUM	360.073	Axial	225005.1	225327.3	225648.8	224039.2
YTTRIUM	360.073	Radial	29563.22	29638.68	29683.86	29367.13
INDIUM	230.606	Axial	2713.916	2739.565	2700.361	2701.821

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-1.05475	0.0008194872	-0.004514488	-0.002767647	0.009740596
IRON	259.940	Radial	1441.340	1.326821	1.331295	1.321458	1.327711
LEAD	220.353	Axial	3.794466	0.002683111	0.001934234	0.001739267	0.004375832
ALUMINUM	308.215	Radial	14.12644	0.04639538	0.04377089	0.05074617	0.04466909
ANTIMONY	206.833	Axial	-0.4293599	-0.001583395	-0.003193238	-0.0007480964	-0.0008088510
BARIUM	233.527	Axial	488.3233	0.1301480	0.1302475	0.1300717	0.1301247
BERYLLIUM	313.042	Radial	15.16592	-0.000005133096	-0.00001287536	0.000008165808	-0.00001068973
BORON	249.678	Radial	52.87448	0.06236644	0.06654145	0.06102291	0.05953496
CADMIUM	228.802	Axial	3.179521	0.0005421372	0.001038033	0.0001721276	0.0004162511
CALCIUM	373.690	Radial	91559.48	79.83452	79.88788	79.68822	79.92746
CERIUM	535.353	Radial	-15.1745	0.1030422	0.1014643	0.1291908	0.07847144
CHROMIUM	267.716	Axial	190.8612	0.02923676	0.02940069	0.02881549	0.02949411
COBALT	228.616	Axial	3.097377	0.001174682	0.001103438	0.001399215	0.001021394
COPPER	324.754	Axial	253.8792	0.007399046	0.007215523	0.007622767	0.007358848
LANTHANUM	333.749	Radial	6.949106	0.001978986	0.002195898	0.0008818334	0.002859226
LITHIUM	670.784	Radial	36.52902	0.005052301	0.003609133	0.006916736	0.004631034
MAGNESIUM	279.079	Radial	2895.953	24.26447	24.36404	24.25371	24.17566
MANGANESE	257.610	Axial	18236.51	0.2902776	0.2894863	0.2903865	0.2909601
MOLYBDENUM	202.030	Axial	2.697963	0.001753960	0.002142259	0.001647450	0.001472172
NICKEL	231.604	Axial	25.75871	0.01646931	0.01618253	0.01558210	0.01764330
PHOSPHORUS	177.495	Axial	7.886739	0.03919658	0.03986526	0.03795770	0.03976679
POTASSIUM	766.490	Radial	1439.264	2.787370	2.788639	2.802836	2.770634
SELENIUM	196.090	Axial	0.9326203	0.001531235	0.003873487	-0.005305666	0.006025885
SILICON	251.611	Axial	14765.59	5.126621	5.125594	5.115313	5.138956
SILVER	328.068	Axial	-8.65630	-0.0003107709	-0.0003502425	0.0001205046	-0.0007025749
SODIUM	818.326	Radial	5019.426	74.54957	74.54914	74.48788	74.61167
STRONTIUM	421.552	Radial	9715.573	0.1277704	0.1273414	0.1279689	0.1280010
SULFUR	182.034	Axial	1021.179	12.94811	13.04419	12.87953	12.92061
THALLIUM	190.856	Axial	0.5739052	0.0001624642	0.003598962	-0.007857822	0.004746253
TIN	189.989	Axial	-1.13311	-0.003818168	-0.006213236	-0.002657015	-0.002584252
TITANIUM	334.941	Radial	47.01112	0.004323808	0.003868113	0.004463797	0.004639514
VANADIUM	292.402	Radial	-6.30432	0.001009516	0.005468950	0.001177866	-0.003618269
ZINC	206.200	Axial	140.5216	0.03212716	0.03323601	0.03131167	0.03183380

Sample ID: CCV Units: mg/l

Analyzed: 08/27/20 16:59 Sequence: 64 Standard ID: 20H10527

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10133.81	10142.82	10129.50	10129.12
YTTRIUM	360.073	Axial	228897.0	229363.6	229399.1	227928.3
YTTRIUM	360.073	Radial	30226.13	30283.01	30202.05	30193.34
INDIUM	230.606	Axial	2774.850	2749.256	2779.355	2795.940

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	2572.498	9.734822	9.666923	9.760090	9.777452
ANTIMONY	206.833	Axial	116.7163	0.4783126	0.4737813	0.4755572	0.4855994
ARSENIC	189.042	Axial	165.0217	0.9719821	0.9486147	0.9874303	0.9799014
BARIUM	233.527	Axial	1857.308	0.4835346	0.4827353	0.4844394	0.4834291
BERYLLIUM	313.042	Radial	19973.71	0.1899836	0.1893040	0.1901406	0.1905063
BORON	249.678	Radial	744.4838	0.9693435	0.9672682	0.9612427	0.9795197
CADMIUM	228.802	Axial	2150.027	0.4953441	0.4907302	0.4957234	0.4995787
CALCIUM	317.933	Radial	104860.9	47.55829	47.45851	47.50141	47.71495
CHROMIUM	267.716	Axial	6118.944	0.9501389	0.9503017	0.9501397	0.9499752
COBALT	228.616	Axial	3074.941	0.9680391	0.9689262	0.9687908	0.9664003
COPPER	324.754	Axial	17096.13	0.9462622	0.9448017	0.9405698	0.9534152
IRON	259.940	Radial	10244.77	9.258957	9.249956	9.242599	9.284316
LEAD	220.353	Axial	284.7897	0.4672367	0.4654192	0.4657416	0.4705494
LITHIUM	670.784	Radial	10547.23	0.9335174	0.9312854	0.9321459	0.9371209
MAGNESIUM	279.079	Radial	1130.873	9.281698	9.308922	9.245924	9.290248
MANGANESE	257.610	Axial	59872.55	0.9342391	0.9340517	0.9329862	0.9356794
MOLYBDENUM	202.030	Axial	334.3328	0.2473447	0.2475875	0.2480293	0.2464172
NICKEL	231.604	Axial	1588.197	0.9549058	0.9554904	0.9564016	0.9528254
PHOSPHORUS	177.495	Axial	194.3252	0.9823711	0.9707201	0.9828318	0.9935614
POTASSIUM	766.490	Radial	24056.37	46.73952	46.64407	46.70803	46.86646
SELENIUM	196.090	Axial	123.5862	0.9503027	0.9367786	0.9417418	0.9723878
SILICON	251.611	Axial	6568.677	2.221982	2.155370	2.216581	2.293994
SILVER	328.068	Axial	6829.300	0.4685381	0.4680947	0.4678249	0.4696948
SODIUM	818.326	Radial	3253.475	47.66854	47.55273	47.55632	47.89658
STRONTIUM	421.552	Radial	73562.55	0.9502475	0.9474190	0.9497872	0.9535365
SULFUR	182.034	Axial	373.7635	4.634447	4.564655	4.637288	4.701399
THALLIUM	190.856	Axial	124.4322	0.9375474	0.9350163	0.9418291	0.9357969
TIN	189.989	Axial	143.6380	0.4706871	0.4721744	0.4717599	0.4681270
TITANIUM	334.941	Radial	8035.871	0.9661202	0.9629318	0.9668334	0.9685954
VANADIUM	292.402	Radial	1584.553	0.9567066	0.9508269	0.9566764	0.9626164
ZINC	206.200	Axial	2807.285	0.9638477	0.9530237	0.9666714	0.9718480
CERIUM	535.353	Radial	-24.3273	0.08202801	0.09234885	0.06960742	0.08412775
LANTHANUM	333.749	Radial	10.19701	0.003480319	0.003391807	0.005148406	0.001900743

Sample ID: CCB Units: mg/l

Analyzed: 08/27/20 17:02 Sequence: 65

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10566.85	10588.27	10551.59	10560.69
YTTRIUM	360.073	Axial	242747.0	243881.2	243131.4	241228.3
YTTRIUM	360.073	Radial	30696.28	30732.48	30603.04	30753.33
INDIUM	230.606	Axial	2999.117	3005.003	2996.702	2995.647

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	7.010878	0.01785752	0.01535341	0.02461379	0.01360536
ANTIMONY	206.833	Axial	1.456407	0.005934522	0.003092338	0.008947704	0.005763524
ARSENIC	189.042	Axial	-1.34818	-0.0004563414	0.002389073	-0.002329322	-0.001428776
BARIUM	233.527	Axial	-2.46899	-0.0001074044	-0.0005009044	0.0001058002	0.00007289098
BERYLLIUM	313.042	Radial	16.11333	-0.000001725174	0.00004990139	-0.00003825633	-0.00001682058
BORON	249.678	Radial	6.695282	0.00002535179	0.00006984643	0.003596173	-0.003589964
CADMIUM	228.802	Axial	1.893659	0.0002130736	0.0003604968	0.000005759093	0.0002729647
CALCIUM	317.933	Radial	93.75436	-0.1166708	-0.1146309	-0.1158626	-0.1195189
CERIUM	535.353	Radial	-78.3277	-0.04195306	-0.04357178	-0.02409615	-0.05819126
CHROMIUM	267.716	Axial	6.277778	-0.0001141104	0.0001114259	0.0001154628	-0.0005692199
COBALT	228.616	Axial	-0.9148861	-0.00008898151	-0.000002592579	-0.0003906256	0.0001262737
COPPER	324.754	Axial	123.9861	-0.0004823212	-0.0007957181	-0.0001750885	-0.0004761569
IRON	259.940	Radial	7.052401	0.0003964285	0.0009759351	0.0008450543	-0.0006317040
LANTHANUM	333.749	Radial	4.540553	0.0006914391	0.002170061	-0.001095573	0.0009998300
LEAD	220.353	Axial	3.147147	0.001080691	-0.0003786106	0.001077494	0.002543189
LITHIUM	670.784	Radial	-20.2824	-0.000008812936	-0.0006444596	0.0003159005	0.0003021204
MAGNESIUM	279.079	Radial	-2.31441	0.004169740	0.003751110	-0.01108122	0.01983933
MANGANESE	257.610	Axial	26.05556	0.00009384540	0.00006853434	0.0001528759	0.00006012595
MOLYBDENUM	202.030	Axial	1.154914	0.0005348566	0.0005411784	0.0001727785	0.0008906130
NICKEL	231.604	Axial	-2.37275	-0.0006749750	-0.0009705382	-0.001049150	-0.000005236775
PHOSPHORUS	177.495	Axial	0.07773459	-0.001191816	0.0009623592	-0.002862969	-0.001674838
POTASSIUM	766.490	Radial	21.80365	-0.03456092	-0.001746231	-0.06161146	-0.04032508
SELENIUM	196.090	Axial	0.9957431	0.001552277	0.004117039	-0.002119295	0.002659088
SILICON	251.611	Axial	83.40278	0.005698203	0.002375591	0.005780354	0.008938665
SILVER	328.068	Axial	-1.41666	0.0002021991	0.00001624153	0.0004048791	0.0001854767
SODIUM	589.592	Radial	181.0413	-0.02926733	-0.02442852	-0.03498302	-0.02839044
STRONTIUM	421.552	Radial	45.22878	-0.00005481307	-0.000007186557	-0.00007879277	-0.00007845987
SULFUR	182.034	Axial	0.9204763	-0.001767463	-0.005080989	-0.003639885	0.003418484
THALLIUM	190.856	Axial	0.8215978	0.001484467	0.009242335	-0.002628497	-0.002160438
TIN	189.989	Axial	1.110158	0.003334509	0.002010917	0.003634051	0.004358558
TITANIUM	334.941	Radial	15.30995	0.0003508368	-0.0004191889	0.0005523294	0.0009193700
VANADIUM	292.402	Radial	-5.81862	0.001453582	0.0006455282	0.001329009	0.002386209
ZINC	206.200	Axial	0.6403850	-0.01782858	-0.01799528	-0.01756239	-0.01792807

Sample ID: ICSEA Units: mg/l

Analyzed: 08/27/20 21:41 Sequence: 162 Standard ID: 20G22207

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9385.418	9385.519	9400.765	9369.970
YTTRIUM	360.073	Axial	217023.3	218144.7	216668.8	216256.3
YTTRIUM	360.073	Radial	31263.82	31133.47	31403.29	31254.69
INDIUM	230.606	Axial	2438.960	2439.821	2441.070	2435.989

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	130486.0	477.7909	477.6314	477.0433	478.6982
ANTIMONY	206.833	Axial	50.33168	0.2228153	0.2238495	0.2282666	0.2163299
ARSENIC	189.042	Axial	31.40250	0.2053540	0.2105673	0.2031834	0.2023113
BARIUM	233.527	Axial	769.5559	0.2166044	0.2183846	0.2150576	0.2163710
BERYLLIUM	313.042	Radial	22938.38	0.2109572	0.2106922	0.2105927	0.2115867
BORON	249.678	Radial	297.4826	0.3691667	0.3691120	0.3728522	0.3655359
CADMIUM	228.802	Axial	1877.492	0.4670335	0.4661973	0.4671654	0.4677377
CALCIUM	373.690	Radial	576485.0	476.0400	482.1864	470.6865	475.2470
CERIUM	535.353	Radial	240.1822	0.6893226	0.6796259	0.6956493	0.6926926
CHROMIUM	267.716	Axial	1245.732	0.2080416	0.2094180	0.2064480	0.2082586
COBALT	228.616	Axial	593.2957	0.2126393	0.2117538	0.2124931	0.2136708
COPPER	324.754	Axial	4102.704	0.2342741	0.2340370	0.2344374	0.2343479
IRON	271.441	Radial	16521.73	188.6900	188.8174	188.2176	189.0352
LANTHANUM	333.749	Radial	-15.0751	-0.008582332	-0.01136003	-0.005580654	-0.008806311
LEAD	220.353	Axial	207.0138	0.3857710	0.3828173	0.3912203	0.3832753
LITHIUM	670.784	Radial	53.46876	0.006323874	0.006906799	0.005543918	0.006520904
MAGNESIUM	279.079	Radial	59875.90	473.9803	474.6472	472.6959	474.5977
MANGANESE	257.610	Axial	12447.86	0.2094922	0.2104985	0.2091338	0.2088443
MOLYBDENUM	202.030	Axial	272.7024	0.2178035	0.2176409	0.2175998	0.2181697
NICKEL	231.604	Axial	610.6324	0.4180660	0.4171534	0.4179619	0.4190828
PHOSPHORUS	177.495	Axial	2.454771	0.01185339	0.009040998	0.01337946	0.01313971
POTASSIUM	766.490	Radial	-8.79306	-0.09287058	-0.09993100	-0.08572153	-0.09295920
SELENIUM	196.090	Axial	29.91825	0.2440740	0.2367383	0.2607272	0.2347566
SILICON	251.611	Axial	1186.103	0.4158021	0.4161013	0.4152190	0.4160860
SILVER	328.068	Axial	6511.206	0.4823273	0.4830967	0.4815174	0.4823677
SODIUM	589.592	Radial	217.6941	-0.01072876	-0.01894306	-0.002473250	-0.01076997
STRONTIUM	421.552	Radial	396.7542	0.004327945	0.004296072	0.004206193	0.004481570
SULFUR	182.034	Axial	5.047372	0.05500941	0.04917588	0.06293715	0.05291519
THALLIUM	190.856	Axial	21.97989	0.1850144	0.1888183	0.1806939	0.1855310
TIN	189.989	Axial	53.10867	0.1979730	0.2006159	0.1997552	0.1935478
TITANIUM	334.941	Radial	1810.419	0.2092924	0.2107588	0.2081317	0.2089868
VANADIUM	292.402	Radial	355.9662	0.2116209	0.2135597	0.2122400	0.2090630
ZINC	206.200	Axial	1036.144	0.3732608	0.3751871	0.3716718	0.3729234

Sample ID: ICSAB Units: mg/l

Analyzed: 08/27/20 21:44 Sequence: 163 Standard ID: 20G22211

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9343.308	9355.754	9335.691	9338.479
YTTRIUM	360.073	Axial	215455.6	215468.2	215514.6	215384.0
YTTRIUM	360.073	Radial	30970.19	30875.00	31030.81	31004.75
INDIUM	230.606	Axial	2430.232	2426.042	2433.631	2431.021

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	130151.0	481.0834	481.9146	479.9404	481.3952
ANTIMONY	206.833	Axial	113.5696	0.5047722	0.5178451	0.4986528	0.4978188
ARSENIC	189.042	Axial	74.91740	0.4822049	0.4767039	0.4821868	0.4877241
BARIUM	233.527	Axial	1718.988	0.4853851	0.4857592	0.4851856	0.4852105
BERYLLIUM	313.042	Radial	50870.43	0.4724645	0.4728461	0.4723557	0.4721918
BORON	249.678	Radial	712.2025	0.9044571	0.9025291	0.8974569	0.9133853
CADMIUM	228.802	Axial	4186.079	1.046251	1.044583	1.046772	1.047400
CALCIUM	373.690	Radial	571584.7	476.4572	479.5783	474.3347	475.4584
CERIUM	535.353	Radial	234.2666	0.6757407	0.6519980	0.7224609	0.6527631
CHROMIUM	267.716	Axial	2766.843	0.4654466	0.4629771	0.4662020	0.4671607
COBALT	228.616	Axial	1323.801	0.4759378	0.4761319	0.4767570	0.4749245
COPPER	324.754	Axial	8866.255	0.5182065	0.5197415	0.5152927	0.5195852
IRON	271.441	Radial	16500.39	190.2328	190.5210	190.0437	190.1338
LANTHANUM	333.749	Radial	-18.9374	-0.01047445	-0.009617273	-0.01000973	-0.01179634
LEAD	220.353	Axial	479.0367	0.9008370	0.8989367	0.9022234	0.9013510
LITHIUM	670.784	Radial	54.16626	0.006426555	0.007292309	0.006335362	0.005651996
MAGNESIUM	279.079	Radial	59568.20	476.0164	478.7393	474.7981	474.5118
MANGANESE	257.610	Axial	27331.15	0.4624031	0.4610615	0.4633676	0.4627800
MOLYBDENUM	202.030	Axial	606.8726	0.4872375	0.4860020	0.4867607	0.4889499
NICKEL	231.604	Axial	1359.414	0.9332614	0.9320603	0.9326499	0.9350739
PHOSPHORUS	177.495	Axial	2.301109	0.01107251	0.008100722	0.01668254	0.008434270
POTASSIUM	766.490	Radial	-10.9470	-0.09717159	-0.1412988	-0.05494408	-0.09527186
SELENIUM	196.090	Axial	60.55447	0.5022808	0.5112709	0.5052251	0.4903463
SILICON	251.611	Axial	2567.053	0.9293542	0.9263493	0.9259119	0.9358013
SILVER	328.068	Axial	14404.38	1.071474	1.069304	1.071018	1.074101
SODIUM	589.592	Radial	245.0490	0.005829304	0.005967901	0.002596289	0.008923721
STRONTIUM	421.552	Radial	404.8175	0.004476589	0.004533986	0.004539822	0.004355958
SULFUR	182.034	Axial	4.998706	0.05466828	0.04866923	0.06089386	0.05444174
THALLIUM	190.856	Axial	50.64013	0.4333908	0.4445925	0.4269922	0.4285877
TIN	189.989	Axial	121.5406	0.4547468	0.4585023	0.4491351	0.4566029
TITANIUM	334.941	Radial	4063.897	0.4761061	0.4772539	0.4757833	0.4752811
VANADIUM	292.402	Radial	785.9576	0.4656573	0.4638757	0.4670893	0.4660068
ZINC	206.200	Axial	2334.939	0.8677297	0.8673809	0.8675364	0.8682719

Sample ID: CCVLL Units: mg/l

Analyzed: 08/28/20 02:23 Sequence: 261 Standard ID: 20H06083

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10545.47	10546.73	10551.45	10538.24
YTTRIUM	360.073	Axial	249386.5	249388.7	249463.8	249307.1
YTTRIUM	360.073	Radial	32320.99	32230.27	32387.35	32345.34
INDIUM	230.606	Axial	3008.992	3013.853	3008.974	3004.149

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	57.84716	0.1966022	0.2018498	0.1840949	0.2038618
ANTIMONY	206.833	Axial	2.816147	0.01129444	0.01122389	0.01319545	0.009463972
ARSENIC	189.042	Axial	1.112176	0.01335363	0.01399645	0.01685823	0.009206218
BARIUM	233.527	Axial	16.70054	0.004681628	0.004656564	0.004899467	0.004488854
BERYLLIUM	313.042	Radial	218.3089	0.001790710	0.001764752	0.001784115	0.001823264
BORON	249.678	Radial	151.1293	0.1770261	0.1798647	0.1723999	0.1788137
CADMIUM	228.802	Axial	11.08688	0.002250237	0.002025478	0.002515164	0.002210070
CALCIUM	317.933	Radial	2327.190	0.8316586	0.8263112	0.8355793	0.8330853
CHROMIUM	267.716	Axial	75.50926	0.01022979	0.009961562	0.01049577	0.01023203
COBALT	228.616	Axial	30.57524	0.009052206	0.009132731	0.009206158	0.008817729
COPPER	324.754	Axial	288.0972	0.007742488	0.007782190	0.007845952	0.007599321
IRON	259.940	Radial	112.9383	0.08962996	0.08839732	0.08886062	0.09163193
LEAD	220.353	Axial	6.137681	0.005623959	0.007038788	0.003372417	0.006460671
LITHIUM	670.784	Radial	139.7018	0.01329565	0.01261435	0.01394620	0.01332640
MAGNESIUM	279.079	Radial	118.5648	0.9306831	0.9302200	0.8969299	0.9648995
MANGANESE	257.610	Axial	685.2083	0.009981478	0.01001403	0.01004690	0.009883502
MOLYBDENUM	202.030	Axial	7.249800	0.004874888	0.004756772	0.004512204	0.005355689
NICKEL	231.604	Axial	15.59825	0.009286467	0.009201186	0.009568188	0.009090027
PHOSPHORUS	177.495	Axial	19.61912	0.09389349	0.09535679	0.09267068	0.09365299
POTASSIUM	766.490	Radial	557.1642	0.9376753	0.9136427	0.9408232	0.9585599
SELENIUM	196.090	Axial	2.104911	0.009816527	0.01447500	0.007190291	0.007784292
SILICON	251.611	Axial	824.0694	0.2488587	0.2355084	0.2482415	0.2628263
SILVER	328.068	Axial	57.59722	0.004090139	0.004519650	0.003617811	0.004132954
SODIUM	589.592	Radial	1898.736	0.8911574	0.8762623	0.9023793	0.8948307
STRONTIUM	421.552	Radial	826.8462	0.009364663	0.009333711	0.009348033	0.009412245
SULFUR	182.034	Axial	73.13747	0.8611071	0.8669239	0.8554882	0.8609091
THALLIUM	190.856	Axial	2.028135	0.009903172	0.004544404	0.004859271	0.02030584
TIN	189.989	Axial	15.94188	0.04814475	0.04743544	0.04886153	0.04813728
TITANIUM	334.941	Radial	430.3851	0.04699713	0.04626833	0.04798785	0.04673522
VANADIUM	292.402	Radial	28.54200	0.02093121	0.02262035	0.02018481	0.01998846
ZINC	206.200	Axial	165.6265	0.03762537	0.03807506	0.03686243	0.03793860
CERIUM	535.353	Radial	-69.8287	-0.02243986	-0.01225567	-0.02132417	-0.03373975
LANTHANUM	333.749	Radial	9.716151	0.002935951	0.0002913054	0.004928772	0.003587775

3015 GW ICP DISS. Metals Prep Benchsheet

Workgroup: WG1531462

Prep Start Date/Time: 08/26/20 15:01-15:02 Analyst: SBK3569 Analyst Verified pH: SBK3569 Leachate Fluid Type: NA Vessel ESC Lot ID: ESC43897
Pipette ID: F13412591 Carousel ID: 8 Microwave ID: MJ9747 Dig. Start Date/Time: 08/26/20 15:55:42 Prep End Date/Time: 08/26/20 16:49
SOP: ENV-SOP-MTJL-0219 Method: 3015 Filter Lot#: 00290115 pH Lot #: 10BDH1201 Syringe Lot#: 0003704 Pipette Tip Lot#: 204048

Nitric Acid: 20H23089 Amt. Used: 4 mL Exp. Date: 02/23/21 Hydrochloric Acid: 20H19677 Amt. Used: 1 mL Exp. Date: 08/19/21
High Spike: 20H17389 Amt. Used: 0.45 mL Exp. Date: 02/17/21 High Spike 2: 20H17387 Amt. Used: 0.45 mL Exp. Date: 02/17/21

Sample Number	Initial Sample Vol (mL)	Final Volume (mL)	Sample Description	Initial pH	Review Analyst	Review Date	Sample Comments
BLANK	45	50	CLEAR	~7	SBK3569	08/26/20 16:49:41	
LCS	45	50	CLEAR	~7	SBK3569	08/26/20 16:49:41	
MS(L1253450-07)	45	50	CLEAR	<2	SBK3569	08/26/20 16:49:41	
MSD(L1253450-07)	45	50	CLEAR	<2	SBK3569	08/26/20 16:49:41	
1. L1253444-08	45	50	CLEAR	~7	SBK3569	08/26/20 16:49:41	
2. L1253444-09	45	50	CLEAR	~7	SBK3569	08/26/20 16:49:41	V:H 250 10X dilution (5.0mL 20E11131) // VOCMS30 0824 jhh RR @ 1x TD MS33 8260 dnr 46,62,72,76,79 rr @ 1x BB
3. L1253444-10	45	50	CLEAR	~7	SBK3569	08/26/20 16:49:41	
4. L1253450-02	45	50	CLEAR	<2	SBK3569	08/26/20 16:49:41	Diss. Metals = FF
5. L1253450-03	45	50	CLEAR	<2	SBK3569	08/26/20 16:49:41	Diss. Metals = FF
6. L1253450-04	45	50	CLEAR	<2	SBK3569	08/26/20 16:49:41	Diss. Metals = FF
7. L1253450-05	45	50	CLEAR	<2	SBK3569	08/26/20 16:49:41	Diss. Metals = FF
8. L1253450-06	45	50	CLEAR	<2	SBK3569	08/26/20 16:49:41	Diss. Metals = FF
9. L1253450-07	45	50	CLEAR	<2	SBK3569	08/26/20 16:49:41	MS/MSD. Diss. Metals = FF
10. L1253450-08	45	50	CLEAR	<2	SBK3569	08/26/20 16:49:41	Diss. Metals = FF
11. L1253450-09	45	50	CLEAR	<2	SBK3569	08/26/20 16:49:41	Diss. Metals = FF
12. L1253450-10	45	50	CLEAR	<2	SBK3569	08/26/20 16:49:41	Diss. Metals = FF
13. L1253450-11	45	50	CLEAR	<2	SBK3569	08/26/20 16:49:41	Diss. Metals = FF
14. L1253450-12	45	50	CLEAR	<2	SBK3569	08/26/20 16:49:41	Diss. Metals = FF
15. L1253450-13	45	50	CLEAR	<2	SBK3569	08/26/20 16:49:41	Diss. Metals = FF
16. L1253450-14	45	50	CLEAR	<2	SBK3569	08/26/20 16:49:41	Diss. Metals = FF
17. L1253450-15	45	50	CLEAR	<2	SBK3569	08/26/20 16:49:41	Diss. Metals = FF
18. L1253450-16	45	50	CLEAR	<2	SBK3569	08/26/20 16:49:41	Diss. Metals = FF

Comments:

Reviewed By:SBK3569 on 08/26/20 16:49:41



8260B Volatile Organic Compounds (GC/MS)



Analytical Method: 8260B
Matrix: GW

SDG: L1253450

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	DMC-3 % Rec.	TOT Out
MW-01S	L1253450-01	VOCMS7	0825_16	107	101	97.4	0
MW-01I	L1253450-02	VOCMS7	0825_17	107	100	99.9	0
MW-01D	L1253450-03	VOCMS7	0825_18	108	102	98.8	0
MW-5I	L1253450-04	VOCMS7	0825_19	106	97.6	99.7	0
MW-10S	L1253450-05	VOCMS7	0825_20	106	96.9	97.6	0
MW-10I	L1253450-06	VOCMS7	0825_21	105	97.2	97.6	0
MW-13I	L1253450-07	VOCMS7	0825_22	105	97.2	97.4	0
DUP-1	L1253450-08	VOCMS7	0825_23	104	103	97.7	0
DUP-2	L1253450-09	VOCMS7	0825_24	106	94.2	99.7	0
MW-11I	L1253450-10	VOCMS7	0825_25	109	97.3	96.3	0
MW-12S	L1253450-11	VOCMS7	0825_26	106	99.6	99.6	0
MW-12I	L1253450-12	VOCMS7	0825_27	106	99.4	99.1	0
MW-17S	L1253450-13	VOCMS26	0825_18	100	103	101	0
MW-17I	L1253450-14	VOCMS26	0825_19	99.6	102	101	0
MW-14S	L1253450-15	VOCMS26	0825_20	100	102	99.6	0
MW-16I	L1253450-16	VOCMS26	0825_21	100	102	102	0
TRIP BLANK	L1253450-17	VOCMS26	0825_07	97.0	107	109	0
MS	R3563465-4	VOCMS7	0825_31	89.6	89.0	97.8	0
MSD	R3563465-5	VOCMS7	0825_32	91.8	89.7	94.2	0
MS	R3563552-5	VOCMS26	0825_31	98.8	102	104	0
MSD	R3563552-6	VOCMS26	0825_32	97.6	101	106	0
BLANK	R3563552-3	VOCMS26	0825_06	99.9	103	100	0
BLANK	R3563465-3	VOCMS7	0825_06A	105	96.9	98.6	0
LCS	R3563552-1	VOCMS26	0825_02LCS	98.4	101	103	0
LCS	R3563465-1	VOCMS7	0825_02LCS	96.5	94.3	95.6	0
LCSD	R3563552-2	VOCMS26	0825_03	99.5	102	103	0
LCSD	R3563465-2	VOCMS7	0825_03	94.2	94.1	94.0	0

Parm Abbreviation

Parameter

QC LIMITS

DMC-1 Toluene-d8

80.0 - 120

DMC-2 4-Bromofluorobenzene

77.0 - 126

DMC-3 1,2-Dichloroethane-d4

70.0 - 130

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3A-OR

MATRIX SPIKE /
MATRIX SPIKE DUPLICATE RECOVERY
L1253450-01,02,03,04,05,06,07,08,09,10,11,12

SAMPLE NO.:

R3563465-4

R3563465-5

MS Sample / File ID: R3563465-4 / 0825_31
MSD Sample / File ID: R3563465-5 / 0825_32
OS Sample / File ID: L1253450-07 / 0825_22
Instrument ID: VOCMS7
Analytical Method: 8260B

SDG: L1253450
Analytical Batch: WG1531654
Matrix: GW

Analyte	Spike Amount mg/l	OS Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD %	RPD Limit %
Acetone	0.0250	ND	ND	ND	95.2	99.2	1	10.0 - 160	4.12	35
Acrolein	0.0250	ND	ND	ND	144	150	1	10.0 - 160	3.81	39
Acrylonitrile	0.0250	ND	0.0274	0.0284	110	114	1	21.0 - 160	3.58	32
Benzene	0.00500	ND	0.00685	0.00721	137	144	1	17.0 - 158	5.12	27
Bromobenzene	0.00500	ND	0.00590	0.00642	118	128	1	30.0 - 149	8.44	28
Bromodichloromethane	0.00500	ND	0.00647	0.00662	129	132	1	31.0 - 150	2.29	27
Bromoform	0.00500	ND	0.00618	0.00605	124	121	1	29.0 - 150	2.13	29
Bromomethane	0.00500	ND	ND	ND	29.0	40.2	1	10.0 - 160	32.4	38
n-Butylbenzene	0.00500	ND	0.00375	0.00407	75.0	81.4	1	31.0 - 150	8.18	30
sec-Butylbenzene	0.00500	ND	0.00473	0.00491	94.6	98.2	1	33.0 - 155	3.73	29
tert-Butylbenzene	0.00500	ND	0.00522	0.00564	104	113	1	34.0 - 153	7.73	28
Carbon tetrachloride	0.00500	ND	0.00672	0.00682	134	136	1	23.0 - 159	1.48	28
Chlorobenzene	0.00500	ND	0.00647	0.00674	129	135	1	33.0 - 152	4.09	27
Chlorodibromomethane	0.00500	ND	0.00631	0.00657	126	131	1	37.0 - 149	4.04	27
Chloroethane	0.00500	ND	0.0106	0.0103	212*	206*	1	10.0 - 160	2.87	30
Chloroform	0.00500	ND	0.00658	0.00676	132	135	1	29.0 - 154	2.70	28
Chloromethane	0.00500	ND	0.00495	0.00533	99.0	107	1	10.0 - 160	7.39	29
2-Chlorotoluene	0.00500	ND	0.00608	0.00650	122	130	1	32.0 - 153	6.68	28
4-Chlorotoluene	0.00500	ND	0.00516	0.00568	103	114	1	32.0 - 150	9.59	28
1,2-Dibromo-3-Chloropropane	0.00500	ND	ND	ND	94.4	98.8	1	22.0 - 151	4.55	34
1,2-Dibromoethane	0.00500	ND	0.00661	0.00657	132	131	1	34.0 - 147	0.607	27
Dibromomethane	0.00500	ND	0.00670	0.00745	134	149	1	30.0 - 151	10.6	27
1,2-Dichlorobenzene	0.00500	ND	0.00520	0.00567	104	113	1	34.0 - 149	8.65	28
1,3-Dichlorobenzene	0.00500	ND	0.00517	0.00550	103	110	1	36.0 - 146	6.19	27
1,4-Dichlorobenzene	0.00500	ND	0.00571	0.00612	114	122	1	35.0 - 142	6.93	27
Dichlorodifluoromethane	0.00500	ND	0.00681	0.00715	136	143	1	10.0 - 160	4.87	29
1,1-Dichloroethane	0.00500	ND	0.00710	0.00749	142	150	1	25.0 - 158	5.35	27
1,2-Dichloroethane	0.00500	ND	0.00636	0.00663	127	133	1	29.0 - 151	4.16	27
1,1-Dichloroethene	0.00500	ND	0.00722	0.00750	144	150	1	11.0 - 160	3.80	29
cis-1,2-Dichloroethene	0.00500	ND	0.00706	0.00718	141	144	1	10.0 - 160	1.69	27
trans-1,2-Dichloroethene	0.00500	ND	0.00717	0.00762	143	152	1	17.0 - 153	6.09	27
1,2-Dichloropropane	0.00500	ND	0.00744	0.00737	149	147	1	30.0 - 156	0.945	27
1,1-Dichloropropene	0.00500	ND	0.00679	0.00720	136	144	1	25.0 - 158	5.86	27
1,3-Dichloropropane	0.00500	ND	0.00673	0.00696	135	139	1	38.0 - 147	3.36	27
cis-1,3-Dichloropropene	0.00500	ND	0.00539	0.00549	108	110	1	34.0 - 149	1.84	28
trans-1,3-Dichloropropene	0.00500	ND	0.00466	0.00482	93.2	96.4	1	32.0 - 149	3.38	28
2,2-Dichloropropane	0.00500	ND	0.00646	0.00660	129	132	1	24.0 - 152	2.14	29
Di-isopropyl ether	0.00500	ND	0.00643	0.00671	129	134	1	21.0 - 160	4.26	28
Ethylbenzene	0.00500	ND	0.00582	0.00604	116	121	1	30.0 - 155	3.71	27
Hexachloro-1,3-butadiene	0.00500	ND	0.00407	0.00448	81.4	89.6	1	20.0 - 154	9.59	34
Isopropylbenzene	0.00500	ND	0.00536	0.00516	107	103	1	28.0 - 157	3.80	27
p-Isopropyltoluene	0.00500	ND	0.00478	0.00502	95.6	100	1	30.0 - 154	4.90	29
2-Butanone (MEK)	0.0250	ND	0.0293	0.0314	117	126	1	10.0 - 160	6.92	32

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE /
MATRIX SPIKE DUPLICATE RECOVERY
L1253450-01,02,03,04,05,06,07,08,09,10,11,12

SAMPLE NO.:
R3563465-4
R3563465-5

MS Sample / File ID: R3563465-4 / 0825_31
MSD Sample / File ID: R3563465-5 / 0825_32
OS Sample / File ID: L1253450-07 / 0825_22
Instrument ID: VOCMS7
Analytical Method: 8260B

SDG: L1253450
Analytical Batch: WG1531654
Matrix: GW

Analyte	Spike Amount mg/l	OS Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD %	RPD Limit %
Methylene Chloride	0.00500	ND	0.00746	0.00732	149*	146*	1	23.0 - 144	1.89	28
4-Methyl-2-pentanone (MIBK)	0.0250	ND	0.0271	0.0289	108	116	1	29.0 - 160	6.43	29
Methyl tert-butyl ether	0.00500	ND	0.00654	0.00672	131	134	1	28.0 - 150	2.71	29
Naphthalene	0.00500	ND	ND	ND	70.0	74.2	1	12.0 - 156	5.83	35
n-Propylbenzene	0.00500	ND	0.00534	0.00562	107	112	1	31.0 - 154	5.11	28
Styrene	0.00500	ND	0.00500	0.00517	100	103	1	33.0 - 155	3.34	28
1,1,1,2-Tetrachloroethane	0.00500	ND	0.00673	0.00723	135	145	1	36.0 - 151	7.16	29
1,1,2,2-Tetrachloroethane	0.00500	ND	0.00702	0.00751	140	150	1	33.0 - 150	6.74	28
Tetrachloroethene	0.00500	ND	0.00607	0.00617	121	123	1	10.0 - 160	1.63	27
Toluene	0.00500	ND	0.00591	0.00615	118	123	1	26.0 - 154	3.98	28
1,1,2-Trichlorotrifluoroethane	0.00500	ND	0.00752	0.00789	150	158	1	23.0 - 160	4.80	30
1,2,3-Trichlorobenzene	0.00500	ND	0.00366	0.00365	73.2	73.0	1	17.0 - 150	0.274	36
1,2,4-Trichlorobenzene	0.00500	ND	0.00419	0.00454	83.8	90.8	1	24.0 - 150	8.02	33
1,1,1-Trichloroethane	0.00500	ND	0.00696	0.00707	139	141	1	23.0 - 160	1.57	28
1,1,2-Trichloroethane	0.00500	ND	0.00667	0.00700	133	140	1	35.0 - 147	4.83	27
Trichloroethene	0.00500	ND	0.00669	0.00671	134	134	1	10.0 - 160	0.299	25
Trichlorofluoromethane	0.00500	ND	0.00718	0.00734	144	147	1	17.0 - 160	2.20	31
1,2,3-Trichloropropane	0.00500	ND	0.00714	0.00749	143	150	1	34.0 - 151	4.78	29
1,2,3-Trimethylbenzene	0.00500	ND	0.00495	0.00516	99.0	103	1	32.0 - 149	4.15	28
1,2,4-Trimethylbenzene	0.00500	ND	0.00512	0.00548	102	110	1	26.0 - 154	6.79	27
1,3,5-Trimethylbenzene	0.00500	ND	0.00539	0.00577	108	115	1	28.0 - 153	6.81	27
Vinyl chloride	0.00500	ND	0.00768	0.00799	154	160	1	10.0 - 160	3.96	27
Xylenes, Total	0.0150	ND	0.0166	0.0164	111	109	1	29.0 - 154	1.21	28

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3A-OR

MATRIX SPIKE /
MATRIX SPIKE DUPLICATE RECOVERY
L1253450-13,14,15,16,17

SAMPLE NO.:

R3563552-5

R3563552-6

MS Sample / File ID: R3563552-5 / 0825_31
MSD Sample / File ID: R3563552-6 / 0825_32
OS Sample / File ID: L1253654-01 / 0825_09
Instrument ID: VOCMS26
Analytical Method: 8260B

SDG: L1253450
Analytical Batch: WG1531771
Matrix: GW

Analyte	Spike Amount mg/l	OS Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD %	RPD Limit %
Acetone	0.125	ND	ND	ND	151	155	5	10.0 - 160	2.61	35
Acrolein	0.125	ND	0.351	0.392	281*	314*	5	10.0 - 160	11.0	39
Acrylonitrile	0.125	ND	0.137	0.135	110	108	5	21.0 - 160	1.47	32
Benzene	0.0250	ND	0.0245	0.0269	98.0	108	5	17.0 - 158	9.34	27
Bromobenzene	0.0250	ND	0.0246	0.0260	98.4	104	5	30.0 - 149	5.53	28
Bromodichloromethane	0.0250	ND	0.0280	0.0296	112	118	5	31.0 - 150	5.56	27
Bromoform	0.0250	ND	0.0249	0.0256	99.6	102	5	29.0 - 150	2.77	29
Bromomethane	0.0250	ND	ND	ND	84.8	80.8	5	10.0 - 160	4.83	38
n-Butylbenzene	0.0250	ND	0.0258	0.0278	103	111	5	31.0 - 150	7.46	30
sec-Butylbenzene	0.0250	ND	0.0259	0.0276	104	110	5	33.0 - 155	6.36	29
tert-Butylbenzene	0.0250	ND	0.0250	0.0271	100	108	5	34.0 - 153	8.06	28
Carbon tetrachloride	0.0250	ND	0.0289	0.0312	116	125	5	23.0 - 159	7.65	28
Chlorobenzene	0.0250	ND	0.0246	0.0267	98.4	107	5	33.0 - 152	8.19	27
Chlorodibromomethane	0.0250	ND	0.0249	0.0263	99.6	105	5	37.0 - 149	5.47	27
Chloroethane	0.0250	ND	ND	ND	90.4	99.6	5	10.0 - 160	9.68	30
Chloroform	0.0250	ND	0.0283	0.0314	113	126	5	29.0 - 154	10.4	28
Chloromethane	0.0250	ND	0.0208	0.0223	83.2	89.2	5	10.0 - 160	6.96	29
2-Chlorotoluene	0.0250	ND	0.0251	0.0276	100	110	5	32.0 - 153	9.49	28
4-Chlorotoluene	0.0250	ND	0.0253	0.0276	101	110	5	32.0 - 150	8.70	28
1,2-Dibromo-3-Chloropropane	0.0250	ND	ND	ND	96.0	94.8	5	22.0 - 151	1.26	34
1,2-Dibromoethane	0.0250	ND	0.0247	0.0247	98.8	98.8	5	34.0 - 147	0.000	27
Dibromomethane	0.0250	ND	0.0243	0.0265	97.2	106	5	30.0 - 151	8.66	27
1,2-Dichlorobenzene	0.0250	ND	0.0261	0.0273	104	109	5	34.0 - 149	4.49	28
1,3-Dichlorobenzene	0.0250	ND	0.0251	0.0274	100	110	5	36.0 - 146	8.76	27
1,4-Dichlorobenzene	0.0250	ND	0.0251	0.0269	100	108	5	35.0 - 142	6.92	27
Dichlorodifluoromethane	0.0250	ND	0.0267	0.0325	107	130	5	10.0 - 160	19.6	29
1,1-Dichloroethane	0.0250	ND	0.0258	0.0284	103	114	5	25.0 - 158	9.59	27
1,2-Dichloroethane	0.0250	ND	0.0272	0.0288	109	115	5	29.0 - 151	5.71	27
1,1-Dichloroethene	0.0250	ND	0.0220	0.0252	88.0	101	5	11.0 - 160	13.6	29
cis-1,2-Dichloroethene	0.0250	ND	0.0265	0.0292	106	117	5	10.0 - 160	9.69	27
trans-1,2-Dichloroethene	0.0250	ND	0.0235	0.0260	94.0	104	5	17.0 - 153	10.1	27
1,2-Dichloropropane	0.0250	ND	0.0265	0.0289	106	116	5	30.0 - 156	8.66	27
1,1-Dichloropropene	0.0250	ND	0.0232	0.0262	92.8	105	5	25.0 - 158	12.1	27
1,3-Dichloropropane	0.0250	ND	0.0262	0.0268	105	107	5	38.0 - 147	2.26	27
cis-1,3-Dichloropropene	0.0250	ND	0.0261	0.0274	104	110	5	34.0 - 149	4.86	28
trans-1,3-Dichloropropene	0.0250	ND	0.0251	0.0262	100	105	5	32.0 - 149	4.29	28
2,2-Dichloropropane	0.0250	ND	0.0270	0.0287	108	115	5	24.0 - 152	6.10	29
Ethylbenzene	0.0250	ND	0.0240	0.0263	96.0	105	5	30.0 - 155	9.15	27
Hexachloro-1,3-butadiene	0.0250	ND	0.0254	0.0272	102	109	5	20.0 - 154	6.84	34
Di-isopropyl ether	0.0250	ND	0.0299	0.0309	120	124	5	21.0 - 160	3.29	28
Isopropylbenzene	0.0250	ND	0.0249	0.0265	99.6	106	5	28.0 - 157	6.23	27
p-Isopropyltoluene	0.0250	ND	0.0258	0.0275	103	110	5	30.0 - 154	6.38	29
2-Butanone (MEK)	0.125	ND	0.153	0.152	122	122	5	10.0 - 160	0.656	32

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE /
MATRIX SPIKE DUPLICATE RECOVERY
L1253450-13,14,15,16,17

SAMPLE NO.:

R3563552-5

R3563552-6

MS Sample / File ID: R3563552-5 / 0825_31
MSD Sample / File ID: R3563552-6 / 0825_32
OS Sample / File ID: L1253654-01 / 0825_09
Instrument ID: VOCMS26
Analytical Method: 8260B

SDG: L1253450
Analytical Batch: WG1531771
Matrix: GW

Analyte	Spike Amount mg/l	OS Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD %	RPD Limit %
Methylene Chloride	0.0250	ND	ND	0.0260	97.6	104	5	23.0 - 144	6.35	28
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.146	0.144	117	115	5	29.0 - 160	1.38	29
Methyl tert-butyl ether	0.0250	ND	0.0257	0.0277	103	111	5	28.0 - 150	7.49	29
Naphthalene	0.0250	ND	0.0352	ND	141	98.4	5	12.0 - 156	35.5*	35
n-Propylbenzene	0.0250	ND	0.0258	0.0277	103	111	5	31.0 - 154	7.10	28
Styrene	0.0250	ND	0.0169	0.0180	67.6	72.0	5	33.0 - 155	6.30	28
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0249	0.0267	99.6	107	5	36.0 - 151	6.98	29
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0257	0.0258	103	103	5	33.0 - 150	0.388	28
Tetrachloroethene	0.0250	ND	0.0245	0.0259	98.0	104	5	10.0 - 160	5.56	27
Toluene	0.0250	ND	0.0238	0.0254	95.2	102	5	26.0 - 154	6.50	28
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0272	0.0304	109	122	5	23.0 - 160	11.1	30
1,2,3-Trichlorobenzene	0.0250	ND	0.0239	0.0243	95.6	97.2	5	17.0 - 150	1.66	36
1,2,4-Trichlorobenzene	0.0250	ND	0.0242	0.0256	96.8	102	5	24.0 - 150	5.62	33
1,1,1-Trichloroethane	0.0250	ND	0.0288	0.0312	115	125	5	23.0 - 160	8.00	28
1,1,2-Trichloroethane	0.0250	ND	0.0248	0.0258	99.2	103	5	35.0 - 147	3.95	27
Trichloroethene	0.0250	ND	0.0255	0.0279	102	112	5	10.0 - 160	8.99	25
Trichlorofluoromethane	0.0250	ND	0.0281	0.0323	112	129	5	17.0 - 160	13.9	31
1,2,3-Trichloropropane	0.0250	ND	0.0290	0.0273	116	109	5	34.0 - 151	6.04	29
1,2,4-Trimethylbenzene	0.0250	ND	0.0255	0.0261	102	104	5	26.0 - 154	2.33	27
1,3,5-Trimethylbenzene	0.0250	ND	0.0255	0.0267	102	107	5	28.0 - 153	4.60	27
Vinyl chloride	0.0250	ND	0.0193	0.0221	77.2	88.4	5	10.0 - 160	13.5	27
Xylenes, Total	0.0750	ND	0.0738	0.0792	98.4	106	5	29.0 - 154	7.06	28
1,2,3-Trimethylbenzene	0.0250	ND	0.0243	0.0255	97.2	102	5	32.0 - 149	4.82	28

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.



LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

SAMPLE NO.:

R3563465-1

R3563465-2

L1253450-01,02,03,04,05,06,07,08,09,10,11,12

LCS Sample / File ID: R3563465-1 / 0825_02LCS
LCSD Sample / File ID: R3563465-2 / 0825_03
Instrument ID: VOCMS7
Analytical Method: 8260B

SDG: L1253450
Analytical Batch: WG1531654
Dilution Factor: 1
Matrix: GW

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD %	RPD Limit %
Acetone	0.0250	0.0184	0.0181	73.6	72.4	19.0 - 160	1.64	27
Acrolein	0.0250	0.0257	0.0215	103	86.0	10.0 - 160	17.8	26
Acrylonitrile	0.0250	0.0213	0.0206	85.2	82.4	55.0 - 149	3.34	20
Benzene	0.00500	0.00532	0.00527	106	105	70.0 - 123	0.944	20
Bromobenzene	0.00500	0.00501	0.00485	100	97.0	73.0 - 121	3.25	20
Bromodichloromethane	0.00500	0.00502	0.00475	100	95.0	75.0 - 120	5.53	20
Bromoform	0.00500	0.00486	0.00482	97.2	96.4	68.0 - 132	0.826	20
Bromomethane	0.00500	0.00140	0.00137	28.0	27.4	10.0 - 160	2.17	25
n-Butylbenzene	0.00500	0.00332	0.00353	66.4*	70.6*	73.0 - 125	6.13	20
sec-Butylbenzene	0.00500	0.00403	0.00406	80.6	81.2	75.0 - 125	0.742	20
tert-Butylbenzene	0.00500	0.00451	0.00454	90.2	90.8	76.0 - 124	0.663	20
Carbon tetrachloride	0.00500	0.00487	0.00455	97.4	91.0	68.0 - 126	6.79	20
Chlorobenzene	0.00500	0.00524	0.00504	105	101	80.0 - 121	3.89	20
Chlorodibromomethane	0.00500	0.00504	0.00484	101	96.8	77.0 - 125	4.05	20
Chloroethane	0.00500	0.00614	0.00560	123	112	47.0 - 150	9.20	20
Chloroform	0.00500	0.00501	0.00492	100	98.4	73.0 - 120	1.81	20
Chloromethane	0.00500	0.00363	0.00374	72.6	74.8	41.0 - 142	2.99	20
2-Chlorotoluene	0.00500	0.00519	0.00535	104	107	76.0 - 123	3.04	20
4-Chlorotoluene	0.00500	0.00436	0.00449	87.2	89.8	75.0 - 122	2.94	20
1,2-Dibromo-3-Chloropropane	0.00500	0.00398	0.00378	79.6	75.6	58.0 - 134	5.15	20
1,2-Dibromoethane	0.00500	0.00520	0.00506	104	101	80.0 - 122	2.73	20
Dibromomethane	0.00500	0.00562	0.00514	112	103	80.0 - 120	8.92	20
1,2-Dichlorobenzene	0.00500	0.00429	0.00437	85.8	87.4	79.0 - 121	1.85	20
1,3-Dichlorobenzene	0.00500	0.00436	0.00509	87.2	102	79.0 - 120	15.4	20
1,4-Dichlorobenzene	0.00500	0.00490	0.00444	98.0	88.8	79.0 - 120	9.85	20
Dichlorodifluoromethane	0.00500	0.00411	0.00412	82.2	82.4	51.0 - 149	0.243	20
1,1-Dichloroethane	0.00500	0.00548	0.00534	110	107	70.0 - 126	2.59	20
1,2-Dichloroethane	0.00500	0.00501	0.00480	100	96.0	70.0 - 128	4.28	20
1,1-Dichloroethene	0.00500	0.00527	0.00513	105	103	71.0 - 124	2.69	20
cis-1,2-Dichloroethene	0.00500	0.00573	0.00518	115	104	73.0 - 120	10.1	20
trans-1,2-Dichloroethene	0.00500	0.00548	0.00542	110	108	73.0 - 120	1.10	20
1,2-Dichloropropane	0.00500	0.00594	0.00517	119	103	77.0 - 125	13.9	20
1,1-Dichloropropene	0.00500	0.00517	0.00504	103	101	74.0 - 126	2.55	20
1,3-Dichloropropane	0.00500	0.00558	0.00514	112	103	80.0 - 120	8.21	20
cis-1,3-Dichloropropene	0.00500	0.00510	0.00488	102	97.6	80.0 - 123	4.41	20
trans-1,3-Dichloropropene	0.00500	0.00391	0.00395	78.2	79.0	78.0 - 124	1.02	20
2,2-Dichloropropane	0.00500	0.00448	0.00430	89.6	86.0	58.0 - 130	4.10	20
Di-isopropyl ether	0.00500	0.00512	0.00490	102	98.0	58.0 - 138	4.39	20
Ethylbenzene	0.00500	0.00477	0.00457	95.4	91.4	79.0 - 123	4.28	20
Hexachloro-1,3-butadiene	0.00500	0.00348	0.00370	69.6	74.0	54.0 - 138	6.13	20
Isopropylbenzene	0.00500	0.00430	0.00424	86.0	84.8	76.0 - 127	1.41	20
p-Isopropyltoluene	0.00500	0.00408	0.00440	81.6	88.0	76.0 - 125	7.55	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1253450-01,02,03,04,05,06,07,08,09,10,11,12



SAMPLE NO.:

R3563465-1

R3563465-2

LCS Sample / File ID: R3563465-1 / 0825_02LCS

LCSD Sample / File ID: R3563465-2 / 0825_03

Instrument ID: VOCMS7

Analytical Method: 8260B

SDG: L1253450

Analytical Batch: WG1531654

Dilution Factor: 1

Matrix: GW

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD %	RPD Limit %
2-Butanone (MEK)	0.0250	0.0210	0.0211	84.0	84.4	44.0 - 160	0.475	20
Methylene Chloride	0.00500	0.00573	0.00534	115	107	67.0 - 120	7.05	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0224	0.0210	89.6	84.0	68.0 - 142	6.45	20
Methyl tert-butyl ether	0.00500	0.00506	0.00498	101	99.6	68.0 - 125	1.59	20
Naphthalene	0.00500	0.00278	0.00289	55.6	57.8	54.0 - 135	3.88	20
n-Propylbenzene	0.00500	0.00456	0.00472	91.2	94.4	77.0 - 124	3.45	20
Styrene	0.00500	0.00372	0.00363	74.4	72.6*	73.0 - 130	2.45	20
1,1,1,2-Tetrachloroethane	0.00500	0.00558	0.00529	112	106	75.0 - 125	5.34	20
1,1,2,2-Tetrachloroethane	0.00500	0.00597	0.00593	119	119	65.0 - 130	0.672	20
Tetrachloroethene	0.00500	0.00478	0.00463	95.6	92.6	72.0 - 132	3.19	20
Toluene	0.00500	0.00491	0.00481	98.2	96.2	79.0 - 120	2.06	20
1,1,2-Trichlorotrifluoroethane	0.00500	0.00447	0.00442	89.4	88.4	69.0 - 132	1.12	20
1,2,3-Trichlorobenzene	0.00500	0.00313	0.00303	62.6	60.6	50.0 - 138	3.25	20
1,2,4-Trichlorobenzene	0.00500	0.00383	0.00391	76.6	78.2	57.0 - 137	2.07	20
1,1,1-Trichloroethane	0.00500	0.00505	0.00494	101	98.8	73.0 - 124	2.20	20
1,1,2-Trichloroethane	0.00500	0.00533	0.00511	107	102	80.0 - 120	4.21	20
Trichloroethene	0.00500	0.00506	0.00500	101	100	78.0 - 124	1.19	20
Trichlorofluoromethane	0.00500	0.00419	0.00416	83.8	83.2	59.0 - 147	0.719	20
1,2,3-Trichloropropane	0.00500	0.00593	0.00611	119	122	73.0 - 130	2.99	20
1,2,3-Trimethylbenzene	0.00500	0.00399	0.00413	79.8	82.6	77.0 - 120	3.45	20
1,2,4-Trimethylbenzene	0.00500	0.00421	0.00429	84.2	85.8	76.0 - 121	1.88	20
1,3,5-Trimethylbenzene	0.00500	0.00469	0.00484	93.8	96.8	76.0 - 122	3.15	20
Vinyl chloride	0.00500	0.00538	0.00537	108	107	67.0 - 131	0.186	20
Xylenes, Total	0.0150	0.0136	0.0134	90.7	89.3	79.0 - 123	1.48	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.



LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY
L1253450-13,14,15,16,17

SAMPLE NO.:

R3563552-1

R3563552-2

LCS Sample / File ID: R3563552-1 / 0825_02LCS

LCSD Sample / File ID: R3563552-2 / 0825_03

Instrument ID: VOCMS26

Analytical Method: 8260B

SDG: L1253450

Analytical Batch: WG1531771

Dilution Factor: 1

Matrix: GW

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD %	RPD Limit %
Acetone	0.0250	0.0219	0.0220	87.6	88.0	19.0 - 160	0.456	27
Acrolein	0.0250	0.0420	0.0439	168*	176*	10.0 - 160	4.42	26
Acrylonitrile	0.0250	0.0265	0.0264	106	106	55.0 - 149	0.378	20
Benzene	0.00500	0.00527	0.00529	105	106	70.0 - 123	0.379	20
Bromobenzene	0.00500	0.00466	0.00485	93.2	97.0	73.0 - 121	4.00	20
Bromodichloromethane	0.00500	0.00528	0.00528	106	106	75.0 - 120	0.000	20
Bromoform	0.00500	0.00446	0.00469	89.2	93.8	68.0 - 132	5.03	20
Bromomethane	0.00500	0.00537	0.00539	107	108	10.0 - 160	0.372	25
n-Butylbenzene	0.00500	0.00467	0.00479	93.4	95.8	73.0 - 125	2.54	20
sec-Butylbenzene	0.00500	0.00472	0.00484	94.4	96.8	75.0 - 125	2.51	20
tert-Butylbenzene	0.00500	0.00484	0.00488	96.8	97.6	76.0 - 124	0.823	20
Carbon tetrachloride	0.00500	0.00543	0.00539	109	108	68.0 - 126	0.739	20
Chlorobenzene	0.00500	0.00503	0.00503	101	101	80.0 - 121	0.000	20
Chlorodibromomethane	0.00500	0.00473	0.00489	94.6	97.8	77.0 - 125	3.33	20
Chloroethane	0.00500	0.00543	0.00531	109	106	47.0 - 150	2.23	20
Chloroform	0.00500	0.00563	0.00564	113	113	73.0 - 120	0.177	20
Chloromethane	0.00500	0.00535	0.00542	107	108	41.0 - 142	1.30	20
2-Chlorotoluene	0.00500	0.00502	0.00515	100	103	76.0 - 123	2.56	20
4-Chlorotoluene	0.00500	0.00487	0.00500	97.4	100	75.0 - 122	2.63	20
1,2-Dibromo-3-Chloropropane	0.00500	0.00409	0.00443	81.8	88.6	58.0 - 134	7.98	20
1,2-Dibromoethane	0.00500	0.00488	0.00492	97.6	98.4	80.0 - 122	0.816	20
Dibromomethane	0.00500	0.00511	0.00507	102	101	80.0 - 120	0.786	20
1,2-Dichlorobenzene	0.00500	0.00491	0.00507	98.2	101	79.0 - 121	3.21	20
1,3-Dichlorobenzene	0.00500	0.00490	0.00502	98.0	100	79.0 - 120	2.42	20
1,4-Dichlorobenzene	0.00500	0.00485	0.00503	97.0	101	79.0 - 120	3.64	20
Dichlorodifluoromethane	0.00500	0.00442	0.00459	88.4	91.8	51.0 - 149	3.77	20
1,1-Dichloroethane	0.00500	0.00553	0.00544	111	109	70.0 - 126	1.64	20
1,2-Dichloroethane	0.00500	0.00537	0.00542	107	108	70.0 - 128	0.927	20
1,1-Dichloroethene	0.00500	0.00532	0.00536	106	107	71.0 - 124	0.749	20
cis-1,2-Dichloroethene	0.00500	0.00543	0.00544	109	109	73.0 - 120	0.184	20
trans-1,2-Dichloroethene	0.00500	0.00567	0.00562	113	112	73.0 - 120	0.886	20
1,2-Dichloropropane	0.00500	0.00530	0.00537	106	107	77.0 - 125	1.31	20
1,1-Dichloropropene	0.00500	0.00541	0.00538	108	108	74.0 - 126	0.556	20
1,3-Dichloropropane	0.00500	0.00512	0.00521	102	104	80.0 - 120	1.74	20
cis-1,3-Dichloropropene	0.00500	0.00506	0.00512	101	102	80.0 - 123	1.18	20
trans-1,3-Dichloropropene	0.00500	0.00463	0.00484	92.6	96.8	78.0 - 124	4.44	20
2,2-Dichloropropane	0.00500	0.00491	0.00465	98.2	93.0	58.0 - 130	5.44	20
Di-isopropyl ether	0.00500	0.00583	0.00580	117	116	58.0 - 138	0.516	20
Ethylbenzene	0.00500	0.00490	0.00508	98.0	102	79.0 - 123	3.61	20
Hexachloro-1,3-butadiene	0.00500	0.00435	0.00451	87.0	90.2	54.0 - 138	3.61	20
Isopropylbenzene	0.00500	0.00478	0.00495	95.6	99.0	76.0 - 127	3.49	20
p-Isopropyltoluene	0.00500	0.00481	0.00493	96.2	98.6	76.0 - 125	2.46	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY
L1253450-13,14,15,16,17



SAMPLE NO.:

R3563552-1

R3563552-2

LCS Sample / File ID: R3563552-1 / 0825_02LCS

LCSD Sample / File ID: R3563552-2 / 0825_03

Instrument ID: VOCMS26

Analytical Method: 8260B

SDG: L1253450

Analytical Batch: WG1531771

Dilution Factor: 1

Matrix: GW

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD %	RPD Limit %
2-Butanone (MEK)	0.0250	0.0261	0.0262	104	105	44.0 - 160	0.382	20
Methylene Chloride	0.00500	0.00514	0.00523	103	105	67.0 - 120	1.74	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0262	0.0268	105	107	68.0 - 142	2.26	20
Methyl tert-butyl ether	0.00500	0.00510	0.00496	102	99.2	68.0 - 125	2.78	20
Naphthalene	0.00500	0.00400	0.00413	80.0	82.6	54.0 - 135	3.20	20
n-Propylbenzene	0.00500	0.00504	0.00518	101	104	77.0 - 124	2.74	20
Styrene	0.00500	0.00491	0.00496	98.2	99.2	73.0 - 130	1.01	20
1,1,1,2-Tetrachloroethane	0.00500	0.00484	0.00491	96.8	98.2	75.0 - 125	1.44	20
1,1,2,2-Tetrachloroethane	0.00500	0.00473	0.00473	94.6	94.6	65.0 - 130	0.000	20
Tetrachloroethene	0.00500	0.00479	0.00513	95.8	103	72.0 - 132	6.85	20
Toluene	0.00500	0.00498	0.00512	99.6	102	79.0 - 120	2.77	20
1,1,2-Trichlorotrifluoroethane	0.00500	0.00413	0.00432	82.6	86.4	69.0 - 132	4.50	20
1,2,3-Trichlorobenzene	0.00500	0.00406	0.00424	81.2	84.8	50.0 - 138	4.34	20
1,2,4-Trichlorobenzene	0.00500	0.00441	0.00462	88.2	92.4	57.0 - 137	4.65	20
1,1,1-Trichloroethane	0.00500	0.00576	0.00577	115	115	73.0 - 124	0.173	20
1,1,2-Trichloroethane	0.00500	0.00477	0.00494	95.4	98.8	80.0 - 120	3.50	20
Trichloroethene	0.00500	0.00535	0.00547	107	109	78.0 - 124	2.22	20
Trichlorofluoromethane	0.00500	0.00489	0.00503	97.8	101	59.0 - 147	2.82	20
1,2,3-Trichloropropane	0.00500	0.00508	0.00525	102	105	73.0 - 130	3.29	20
1,2,3-Trimethylbenzene	0.00500	0.00454	0.00466	90.8	93.2	77.0 - 120	2.61	20
1,2,4-Trimethylbenzene	0.00500	0.00484	0.00493	96.8	98.6	76.0 - 121	1.84	20
1,3,5-Trimethylbenzene	0.00500	0.00489	0.00501	97.8	100	76.0 - 122	2.42	20
Vinyl chloride	0.00500	0.00492	0.00498	98.4	99.6	67.0 - 131	1.21	20
Xylenes, Total	0.0150	0.0148	0.0153	98.7	102	79.0 - 123	3.32	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Lab Sample ID:	R3563552-3	SDG:	L1253450
Lab File ID:	0825_06	Preparation Date/Time:	08/25/20 08:03
Instrument ID:	VOCMS26	Analysis Date/Time:	08/25/20 08:03
Analytical Batch:	WG1531771	Dilution Factor:	1
Analytical Method:	8260B	Matrix:	GW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis date/time
LCS	R3563552-1	VOCMS26	0825_02LCS	08/25/20 06:40
LCSD	R3563552-2	VOCMS26	0825_03	08/25/20 07:01
TRIP BLANK	L1253450-17	VOCMS26	0825_07	08/25/20 10:08
OS	L1253654-01	VOCMS26	0825_09	08/25/20 10:49
MW-17S	L1253450-13	VOCMS26	0825_18	08/25/20 13:51
MW-17I	L1253450-14	VOCMS26	0825_19	08/25/20 14:12
MW-14S	L1253450-15	VOCMS26	0825_20	08/25/20 14:32
MW-16I	L1253450-16	VOCMS26	0825_21	08/25/20 14:52
MS	R3563552-5	VOCMS26	0825_31	08/25/20 18:33
MSD	R3563552-6	VOCMS26	0825_32	08/25/20 18:54

Sample Narrative:

Lowest possible dilution due to sample foaming.

Lab Sample ID: R3563465-3
Lab File ID: 0825_06A
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Analytical Method: 8260B

SDG: L1253450
Preparation Date/Time: 08/25/20 01:42
Analysis Date/Time: 08/25/20 01:42
Dilution Factor: 1
Matrix: GW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis date/time
LCS	R3563465-1	VOCMS7	0825_02LCS	08/25/20 00:24
LCSD	R3563465-2	VOCMS7	0825_03	08/25/20 00:43
MW-01S	L1253450-01	VOCMS7	0825_16	08/25/20 05:18
MW-01I	L1253450-02	VOCMS7	0825_17	08/25/20 05:38
MW-01D	L1253450-03	VOCMS7	0825_18	08/25/20 05:57
MW-5I	L1253450-04	VOCMS7	0825_19	08/25/20 06:17
MW-10S	L1253450-05	VOCMS7	0825_20	08/25/20 06:37
MW-10I	L1253450-06	VOCMS7	0825_21	08/25/20 06:56
MW-13I	L1253450-07	VOCMS7	0825_22	08/25/20 07:16
DUP-1	L1253450-08	VOCMS7	0825_23	08/25/20 07:36
DUP-2	L1253450-09	VOCMS7	0825_24	08/25/20 07:55
MW-11I	L1253450-10	VOCMS7	0825_25	08/25/20 08:15
MW-12S	L1253450-11	VOCMS7	0825_26	08/25/20 08:35
MW-12I	L1253450-12	VOCMS7	0825_27	08/25/20 08:55
MS	R3563465-4	VOCMS7	0825_31	08/25/20 10:13
MSD	R3563465-5	VOCMS7	0825_32	08/25/20 10:33

Sample Narrative:

Lowest possible dilution due to sample foaming.

GC/MS INSTRUMENT
PERFORMANCE CHECK

Lab File ID: 0707_01
Instrument ID: VOCMS7
Analysis Date/Time: 07/07/20 14:42

SDG: L1253450
Analytical Method: 8260B

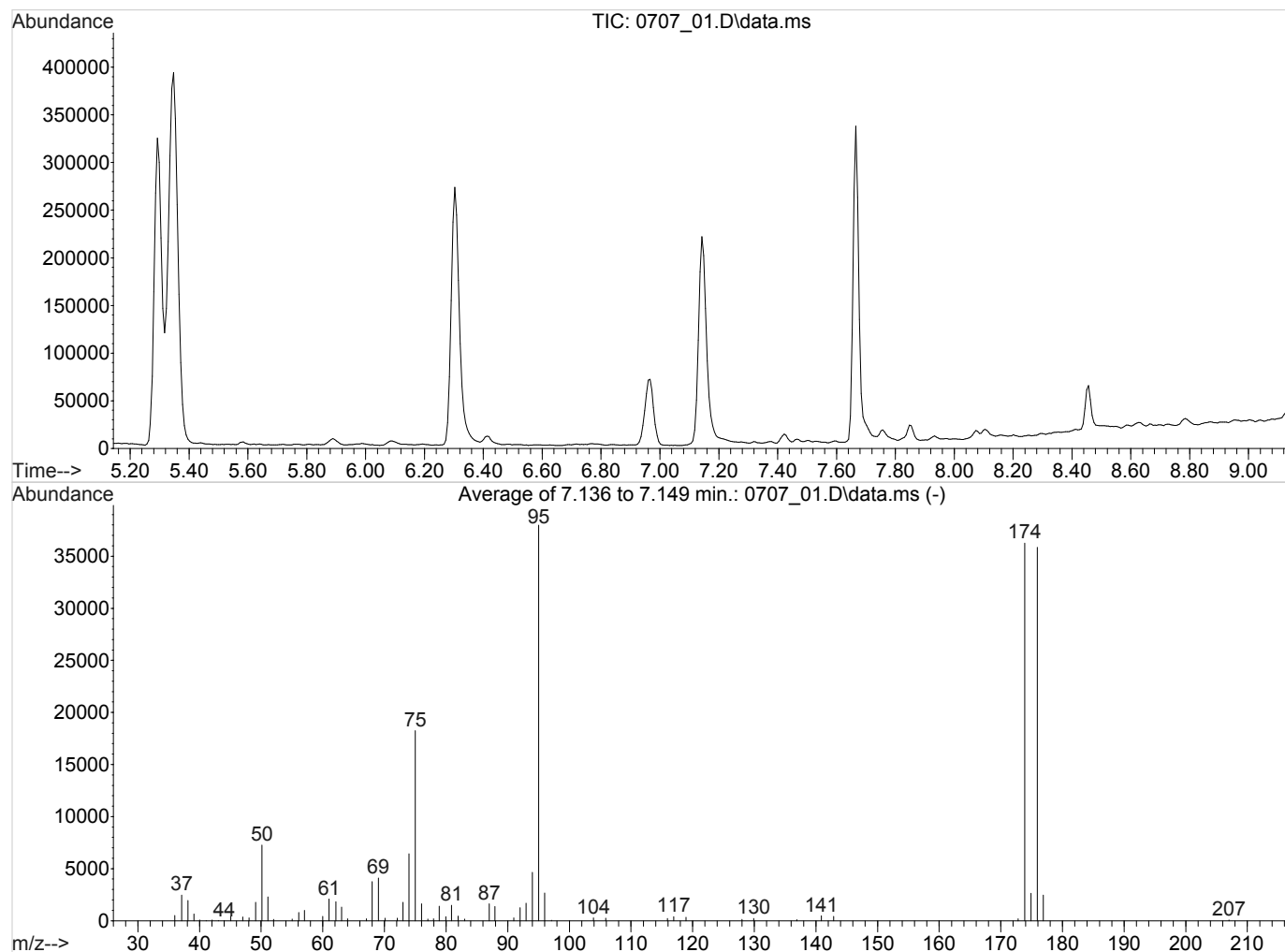
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	105
96	95	5	9	7
173	174	0	2	0
174	95	50	200	95
175	174	5	9	7
176	174	95	105	99
177	176	5	10	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-0.04	0.04	0707_05	07/07/20 16:02
STD-0.1	0.1	0707_06	07/07/20 16:22
STD-0.2	0.2	0707_07	07/07/20 16:42
STD-0.5	0.5	0707_08	07/07/20 17:02
STD-1	1	0707_09	07/07/20 17:22
STD-5.0	5.0	0707_11	07/07/20 18:02
STD-25	25	0707_12	07/07/20 18:22
STD-75	75	0707_13	07/07/20 18:42
STD-100	100	0707_14	07/07/20 19:02
STD-200	200	0707_15	07/07/20 19:22
STD-1A	1A	0707_22	07/07/20 21:42
STD-5A	5A	0707_23	07/07/20 22:02
STD-10A	10A	0707_24	07/07/20 22:22
STD-15A	15A	0707_25	07/07/20 22:42
STD-20A	20A	0707_26	07/07/20 23:02

Data Path : C:\msdchem\1\data\070720\
Data File : 0707_01.D
Acq On : 7 Jul 2020 2:42 pm
Operator : 988
Sample : INSTBLK
Misc : water
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINTLRH.P

Method : C:\msdchem\1\methods\V807G07T.M
Title : Volatile Organics by GC/MS
Last Update : Wed Jul 08 09:01:56 2020



AutoFind: Scans 944, 945, 946; Background Corrected with Scan 938

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.1	7276	PASS
75	95	30	60	48.0	18243	PASS
95	95	100	100	100.0	37995	PASS
96	95	5	9	7.0	2648	PASS
173	174	0.00	2	0.5	189	PASS
174	95	50	100	95.4	36259	PASS
175	174	5	9	7.3	2643	PASS
176	174	95	101	98.9	35843	PASS
177	176	5	9	6.9	2458	PASS

GC/MS INSTRUMENT
PERFORMANCE CHECK

Lab File ID: 0707_29
Instrument ID: VOCMS7
Analysis Date/Time: 07/08/20 00:02

SDG: L1253450
Analytical Method: 8260B

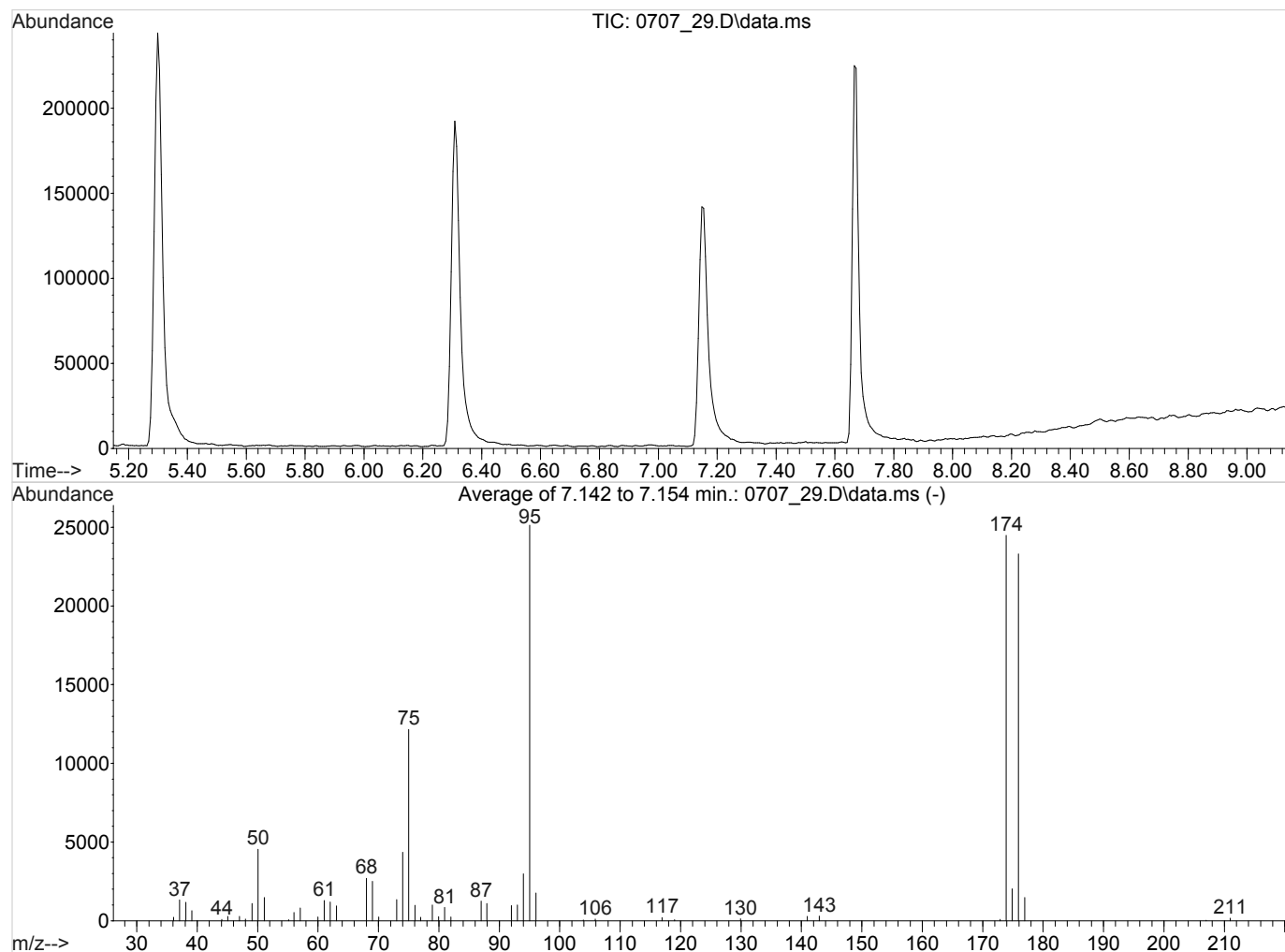
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	103
96	95	5	9	7
173	174	0	2	0
174	95	50	200	97
175	174	5	9	8
176	174	95	105	95
177	176	5	10	6

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-5	5	0707_31	07/08/20 00:42
STD-10	10	0707_32	07/08/20 01:02
STD-50	50	0707_33	07/08/20 01:22
STD-100	100	0707_34	07/08/20 01:42
STD-500	500	0707_35	07/08/20 02:02
STD-1000	1000	0707_36	07/08/20 02:22
SSCV	VOCMS70707200707_43506236	0707_43	07/08/20 10:50

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_29.D
 Acq On : 8 Jul 2020 12:02 am
 Operator : 988
 Sample : INSTBLK
 Misc : water
 ALS Vial : 29 Sample Multiplier: 1

Integration File: RTEINTLRH.P

Method : C:\msdchem\1\methods\V807G07T.M
 Title : Volatile Organics by GC/MS
 Last Update : Wed Jul 08 09:30:56 2020



AutoFind: Scans 945, 946, 947; Background Corrected with Scan 939

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.0	4538	PASS
75	95	30	60	48.3	12150	PASS
95	95	100	100	100.0	25144	PASS
96	95	5	9	7.0	1755	PASS
173	174	0.00	2	0.3	80	PASS
174	95	50	100	97.4	24483	PASS
175	174	5	9	8.3	2020	PASS
176	174	95	101	95.2	23307	PASS
177	176	5	9	6.4	1484	PASS



GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID: 0825_02T
Instrument ID: VOCMS7
Analysis Date/Time: 08/25/20 00:24

SDG: L1253450
Analytical Method: 8260B

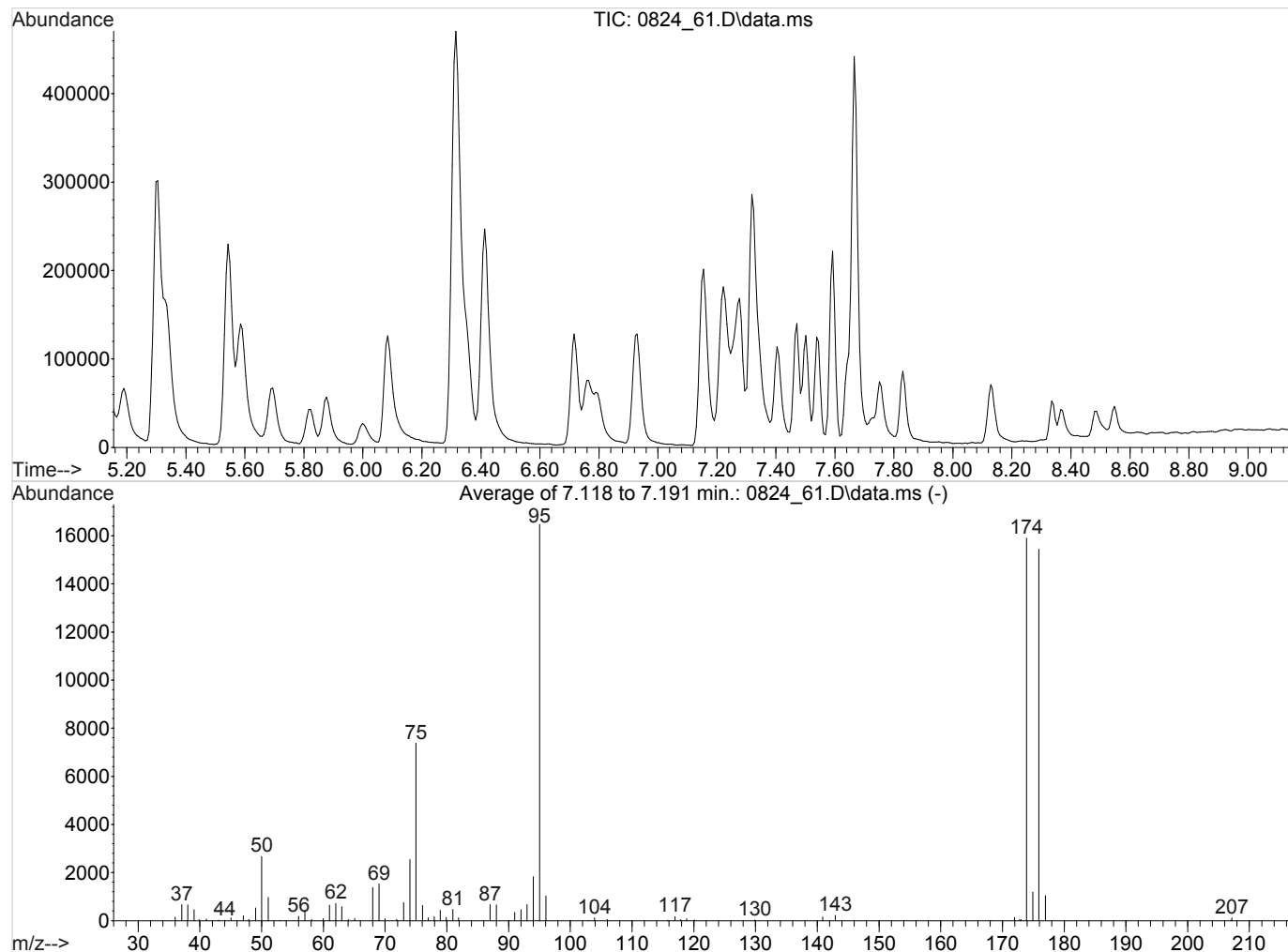
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	104
96	95	5	9	6
173	174	0	2	0
174	95	50	200	96
175	174	5	9	8
176	174	95	105	97
177	176	5	10	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	VOCMS70825200825_02506236	0825_02	08/25/20 00:24
LCS	R3563465-1	0825_02LCS	08/25/20 00:24
LCSD	R3563465-2	0825_03	08/25/20 00:43
RL	VOCMS70825200825_05506236	0825_05	08/25/20 01:23
BLANK	R3563465-3	0825_06A	08/25/20 01:42
MW-01S	L1253450-01	0825_16	08/25/20 05:18
MW-01I	L1253450-02	0825_17	08/25/20 05:38
MW-01D	L1253450-03	0825_18	08/25/20 05:57
MW-5I	L1253450-04	0825_19	08/25/20 06:17
MW-10S	L1253450-05	0825_20	08/25/20 06:37
MW-10I	L1253450-06	0825_21	08/25/20 06:56
OS	L1253450-07	0825_22	08/25/20 07:16
MW-13I	L1253450-07	0825_22	08/25/20 07:16
DUP-1	L1253450-08	0825_23	08/25/20 07:36
DUP-2	L1253450-09	0825_24	08/25/20 07:55
MW-11I	L1253450-10	0825_25	08/25/20 08:15
MW-12S	L1253450-11	0825_26	08/25/20 08:35
MW-12I	L1253450-12	0825_27	08/25/20 08:55
MS	R3563465-4	0825_31	08/25/20 10:13
MSD	R3563465-5	0825_32	08/25/20 10:33

Data Path : C:\msdchem\1\data\082420\
Data File : 0824_61.D
Acq On : 25 Aug 2020 12:24 am
Operator : 808
Sample : ICVLCS VMS 5.0 PPB
Misc : water
ALS Vial : 58 Sample Multiplier: 1

Integration File: RTEINTLRH.P

Method : C:\msdchem\1\methods\V807G07T.M
Title : Volatile Organics by GC/MS
Last Update : Wed Jul 08 09:30:56 2020



Spectrum Information: Average of 7.118 to 7.191 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.2	2666	PASS
75	95	30	60	44.8	7382	PASS
95	95	100	100	100.0	16478	PASS
96	95	5	9	6.2	1025	PASS
173	174	0.00	2	0.3	44	PASS
174	95	50	100	96.4	15893	PASS
175	174	5	9	7.5	1193	PASS
176	174	95	101	97.1	15432	PASS
177	176	5	9	6.7	1036	PASS



GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID: 0819_01
Instrument ID: VOCMS26
Analysis Date/Time: 08/19/20 19:42

SDG: L1253450
Analytical Method: 8260B

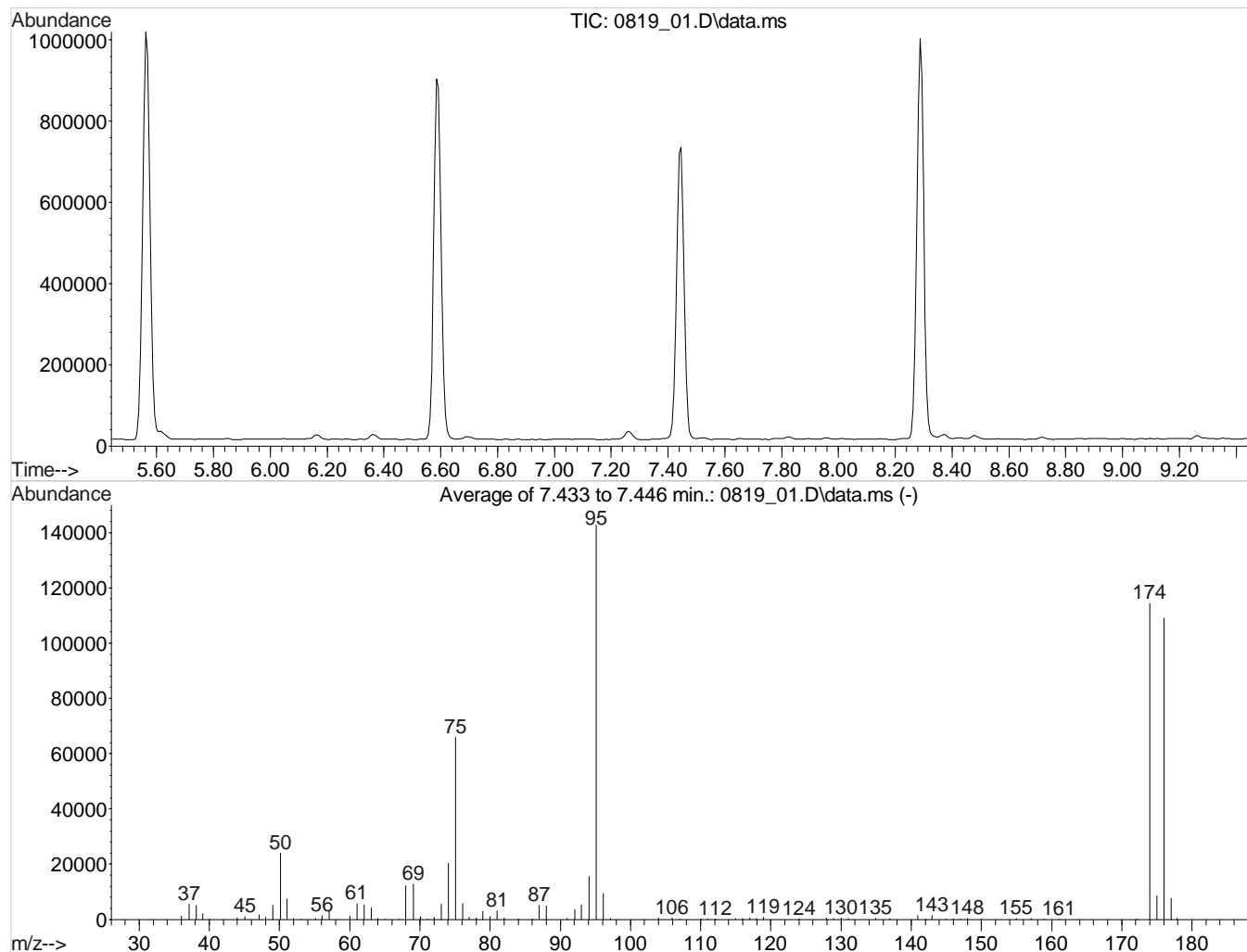
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	125
96	95	5	9	6
173	174	0	2	0
174	95	50	200	80
175	174	5	9	8
176	174	95	105	95
177	176	5	10	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-0.04	0.04	0819_05	08/19/20 21:03
STD-0.1	0.1	0819_06	08/19/20 21:23
STD-0.2	0.2	0819_07	08/19/20 21:44
STD-0.5	0.5	0819_08	08/19/20 22:04
STD-1	1	0819_09	08/19/20 22:25
STD-2	2	0819_10	08/19/20 22:45
STD-5.0	5.0	0819_11	08/19/20 23:05
STD-25	25	0819_12	08/19/20 23:26
STD-75	75	0819_13	08/19/20 23:46
STD-100	100	0819_14	08/20/20 00:07
STD-200	200	0819_15	08/20/20 00:27
SSCV	VOCMS260819200819_20510339	0819_20	08/20/20 02:09
STD-1A	1A	0819_23	08/20/20 03:11
STD-5A	5A	0819_24	08/20/20 03:31
STD-10A	10A	0819_25	08/20/20 03:51
STD-15A	15A	0819_26	08/20/20 04:12
STD-20A	20A	0819_27	08/20/20 04:32

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 01.D
 Acq On : 19 Aug 2020 7:42 pm
 Operator : 808
 Sample : INSTBLK
 Misc : soil
 ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINTLRH.P

Method : C:\msdchem\1\methods\V826H19T.M
 Title : Volatile Organics by GC/MS
 Last Update : Fri Jul 03 13:50:19 2020



AutoFind: Scans 958, 959, 960; Background Corrected with Scan 950

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.8	24005	PASS
75	95	30	60	46.1	65829	PASS
95	95	100	100	100.0	142776	PASS
96	95	5	9	6.5	9269	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.2	114456	PASS
175	174	5	9	7.5	8543	PASS
176	174	95	101	95.3	109053	PASS
177	176	5	9	7.0	7587	PASS

GC/MS INSTRUMENT
PERFORMANCE CHECK

Lab File ID: 0825_01T
Instrument ID: VOCMS26
Analysis Date/Time: 08/25/20 06:20

SDG: L1253450
Analytical Method: 8260B

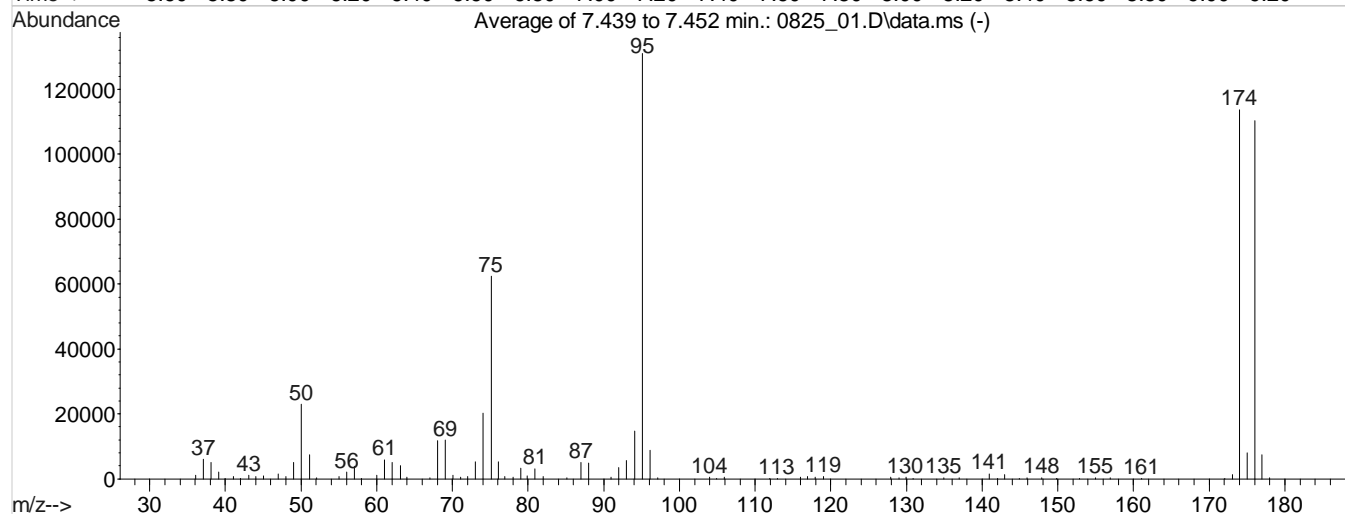
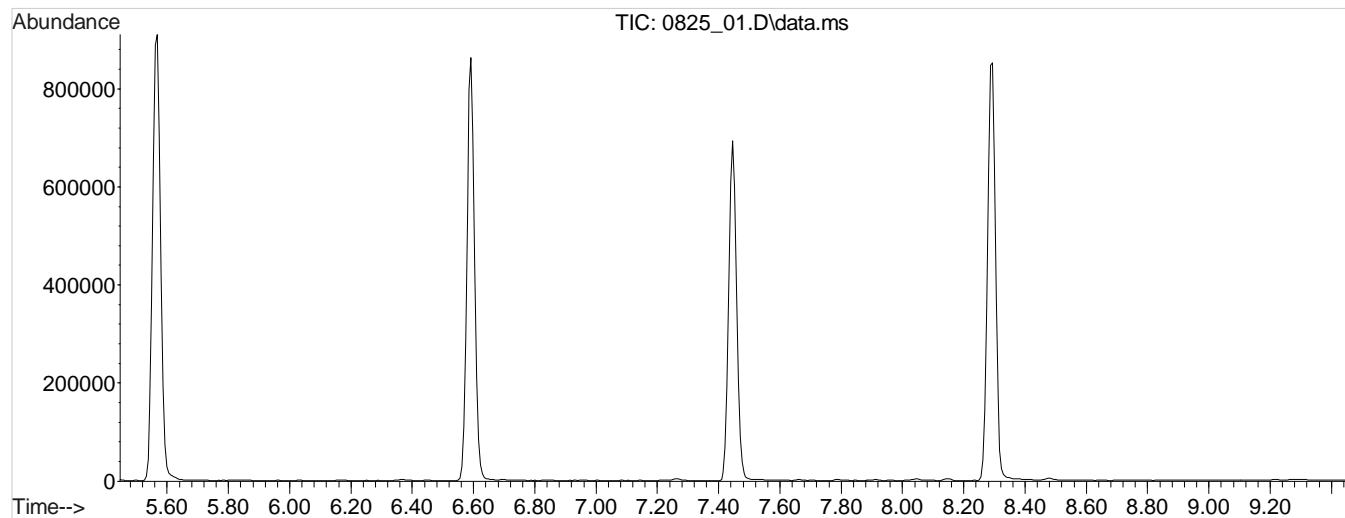
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	115
96	95	5	9	7
173	174	0	2	1
174	95	50	200	87
175	174	5	9	7
176	174	95	105	97
177	176	5	10	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	VOCMS260825200825_02510339	0825_02	08/25/20 06:40
LCS	R3563552-1	0825_02LCS	08/25/20 06:40
LCS	R3563552-1	0825_02LCS	08/25/20 06:40
LCSD	R3563552-2	0825_03	08/25/20 07:01
LCSD	R3563552-2	0825_03	08/25/20 07:01
RL	VOCMS260825200825_05510339	0825_05	08/25/20 07:42
BLANK	R3563552-3	0825_06	08/25/20 08:03
BLANK	R3563552-3	0825_06	08/25/20 08:03
TRIP BLANK	L1253450-17	0825_07	08/25/20 10:08
OS	L1253654-01	0825_09	08/25/20 10:49
OS	L1253654-01	0825_09	08/25/20 10:49

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_01.D
Acq On : 25 Aug 2020 6:20 am
Operator : 1006
Sample : INSTBLK
Misc : soil
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINTLRH.P

Method : C:\msdchem\1\methods\V826H21T.M
Title : Volatile Organics by GC/MS
Last Update : Thu Aug 20 09:38:52 2020



AutoFind: Scans 959, 960, 961; Background Corrected with Scan 952

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.5	22981	PASS
75	95	30	60	47.5	62333	PASS
95	95	100	100	100.0	131101	PASS
96	95	5	9	6.8	8873	PASS
173	174	0.00	2	1.1	1249	PASS
174	95	50	100	86.7	113648	PASS
175	174	5	9	7.1	8079	PASS
176	174	95	101	97.1	110389	PASS
177	176	5	9	6.7	7417	PASS

GC/MS INSTRUMENT
PERFORMANCE CHECK

Lab File ID: 0825_11T
Instrument ID: VOCMS26
Analysis Date/Time: 08/25/20 11:30

SDG: L1253450
Analytical Method: 8260B

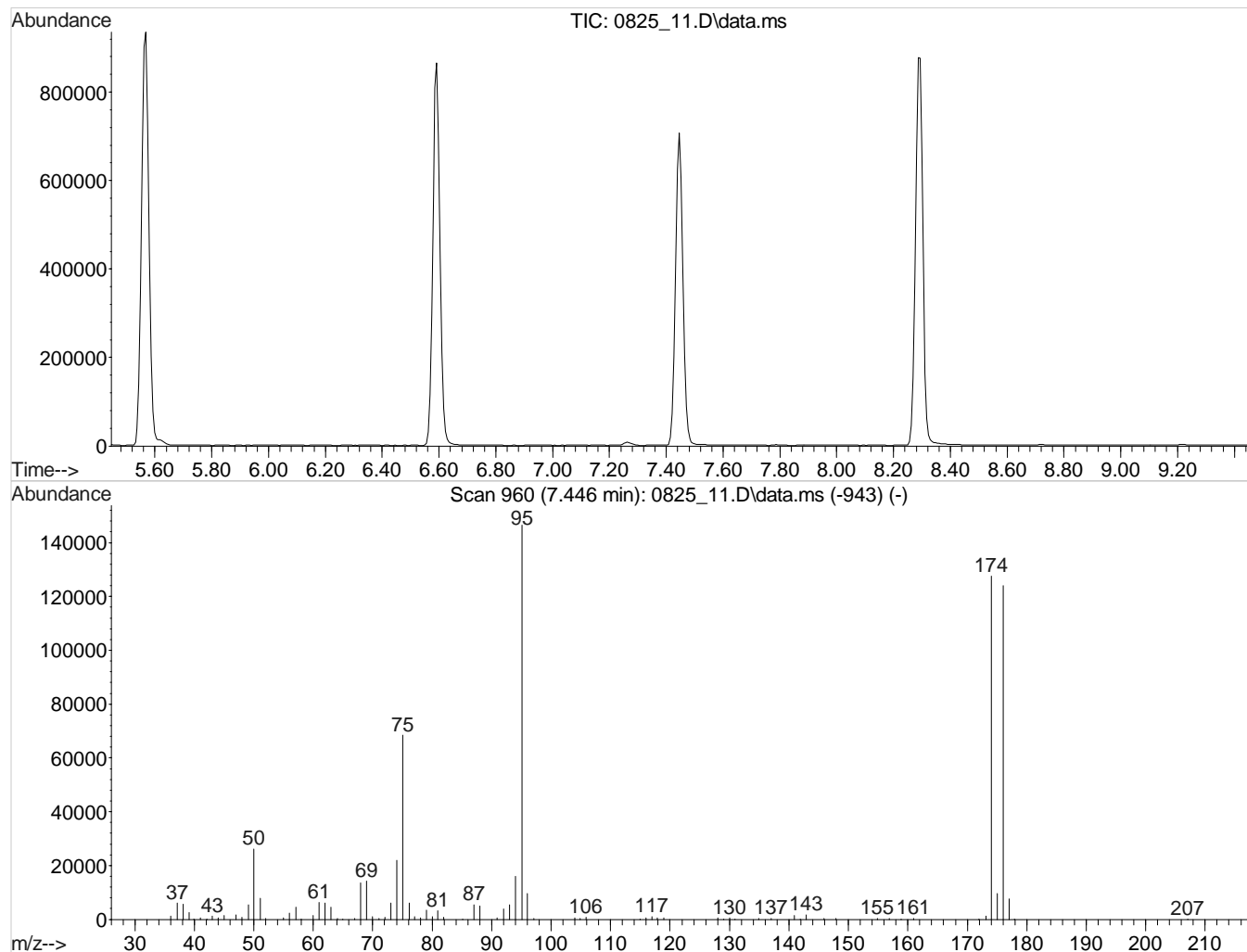
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	115
96	95	5	9	7
173	174	0	2	1
174	95	50	200	87
175	174	5	9	8
176	174	95	105	97
177	176	5	10	6

Sample ID	Lab Sample ID	File ID	Analysis date/time
MW-17S	L1253450-13	0825_18	08/25/20 13:51
MW-17I	L1253450-14	0825_19	08/25/20 14:12
MW-14S	L1253450-15	0825_20	08/25/20 14:32
MW-16I	L1253450-16	0825_21	08/25/20 14:52
MS	R3563552-5	0825_31	08/25/20 18:33
MS	R3563552-5	0825_31	08/25/20 18:33
MSD	R3563552-6	0825_32	08/25/20 18:54
MSD	R3563552-6	0825_32	08/25/20 18:54

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_11.D
 Acq On : 25 Aug 2020 11:30 am
 Operator : 808
 Sample : INSTBLK
 Misc : soil
 ALS Vial : 11 Sample Multiplier: 1

Integration File: RTEINTLRH.P

Method : C:\msdchem\1\methods\V826H21T.M
 Title : Volatile Organics by GC/MS
 Last Update : Thu Aug 20 09:38:52 2020



Spectrum Information: Scan 960

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.8	26024	PASS
75	95	30	60	46.8	68520	PASS
95	95	100	100	100.0	146560	PASS
96	95	5	9	6.6	9650	PASS
173	174	0.00	2	1.0	1322	PASS
174	95	50	100	87.0	127528	PASS
175	174	5	9	7.5	9513	PASS
176	174	95	101	97.3	124048	PASS
177	176	5	9	6.2	7689	PASS



INTERNAL STANDARD AND RETENTION TIME

SDG: L1253450
Instrument ID: VOCMS7
Std File: 0825_02

Analytical Method: 8260B
Calibration Start Date: 07/07/20 16:02
Calibration End Date: 07/08/20 02:22
Std Analysis Date: 08/25/20 00:24

Sample ID	File ID	1,4-DCB		8260-CB		8260-FB	
		Response	RT	Response	RT	Response	RT
STANDARD		75941	7.67	96338	6.31	229878	4.39
UPPER LIMIT		151882		192676		459756	
LOWER LIMIT		37971		48169		114939	
LCS R3563465-1 WG1531654 1x	0825_02LCS	75941	7.67	96338	6.31	229878	4.39
LCSD R3563465-2 WG1531654 1x	0825_03	75500	7.67	99800	6.31	236178	4.39
BLANK R3563465-3 WG1531654 1x	0825_06A	71156	7.67	84681	6.31	225885	4.39
L1253450-01 WG1531654 1x	0825_16	64559	7.67	77123	6.32	207453	4.39
L1253450-02 WG1531654 1x	0825_17	62895	7.67	70674	6.32	192258	4.39
L1253450-03 WG1531654 1x	0825_18	62954	7.67	73492	6.32	198702	4.39
L1253450-04 WG1531654 1x	0825_19	64482	7.67	73738	6.31	199625	4.39
L1253450-05 WG1531654 1x	0825_20	66230	7.67	75825	6.32	201901	4.39
L1253450-06 WG1531654 1x	0825_21	60573	7.67	73169	6.31	197468	4.39
L1253450-07 WG1531654 1x	0825_22	65262	7.67	75595	6.31	200856	4.39
OS L1253450-07 WG1531654 1x	0825_22	65262	7.67	75595	6.31	200856	4.39
L1253450-08 WG1531654 1x	0825_23	63861	7.67	74162	6.32	197450	4.39
L1253450-09 WG1531654 1x	0825_24	61181	7.67	72357	6.32	194250	4.39
L1253450-10 WG1531654 1x	0825_25	62830	7.67	71018	6.32	197308	4.39
L1253450-11 WG1531654 1x	0825_26	65966	7.67	71715	6.31	195033	4.39
L1253450-12 WG1531654 1x	0825_27	62562	7.67	69126	6.31	188295	4.39
MS R3563465-4 WG1531654 1x	0825_31	76864	7.67	93442	6.31	212287	4.39
MSD R3563465-5 WG1531654 1x	0825_32	72395	7.67	90283	6.31	208562	4.39

1,4-DCB - 8260-1,4-DICHLOROBENZENE-D4 8260-CB - 8260-CHLOROBENZENE-D5
8260-FB - 8260-FLUOROBENZENE

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.



INTERNAL STANDARD AND RETENTION TIME

SDG:	L1253450	Analytical Method:	8260B
Instrument ID:	VOCMS26	Calibration Start Date:	08/19/20 21:03
Std File:	0825_02	Calibration End Date:	08/20/20 04:32
		Std Analysis Date:	08/25/20 06:40

Sample ID	File ID	1,4-DCB		8260-CB		8260-FB	
		Response	RT	Response	RT	Response	RT
STANDARD		276847	8.29	275494	6.59	604080	4.64
UPPER LIMIT		553694		550988		1208160	
LOWER LIMIT		138424		137747		302040	
LCS R3563552-1 WG1531771 1x	0825_02LCS	276847	8.29	275494	6.59	604080	4.64
LCSD R3563552-2 WG1531771 1x	0825_03	273317	8.29	272825	6.59	602109	4.64
BLANK R3563552-3 WG1531771 1x	0825_06	274267	8.29	274167	6.59	612884	4.63
L1253450-17 WG1531771 1x	0825_07	345041	8.29	300254	6.59	639943	4.63
OS L1253654-01 WG1531771 5x	0825_09	282400	8.29	279603	6.59	616862	4.63
L1253450-13 WG1531771 1x	0825_18	273800	8.29	269530	6.59	600556	4.64
L1253450-14 WG1531771 1x	0825_19	264830	8.29	263872	6.59	582169	4.63
L1253450-15 WG1531771 1x	0825_20	266548	8.29	260630	6.59	587198	4.64
L1253450-16 WG1531771 1x	0825_21	273049	8.29	265808	6.59	585475	4.63
MS R3563552-5 WG1531771 5x	0825_31	270300	8.29	267292	6.59	583841	4.64
MSD R3563552-6 WG1531771 5x	0825_32	263387	8.29	260815	6.59	564690	4.63

1,4-DCB - 8260-1,4-DICHLOROBENZENE-D4 8260-CB - 8260-CHLOROBENZENE-D5
8260-FB - 8260-FLUOROBENZENE

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET



Lab Sample ID: L1253450-01
Client Sample ID: MW-01S
Lab File ID: 0825_16
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/18/20 11:00
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 05:18
Analysis Date/Time: 08/25/20 05:18
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND	J4	0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253450-01	SDG:	L1253450
Client Sample ID:	MW-01S	Collected Date/Time:	08/18/20 11:00
Lab File ID:	0825_16	Received Date/Time:	08/21/20 09:31
Instrument ID:	VOCMS7	Preparation Date/Time:	08/25/20 05:18
Analytical Batch:	WG1531654	Analysis Date/Time:	08/25/20 05:18
Dilution Factor:	1	Prep Method:	8260B
Analytical Method:	8260B	Sample Vol Used:	5 mL
Matrix:	GW	Initial Wt/Vol:	
Total Solids (%):		Final Wt/Vol:	5 mL

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			mg/l		mg/l	mg/l
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND	J4	0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_16.D
 Acq On : 25 Aug 2020 5:18 am
 Operator : 808
 Sample : L1253450-01 1x WG1531654
 Misc : water
 ALS Vial : 16 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:57:10 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

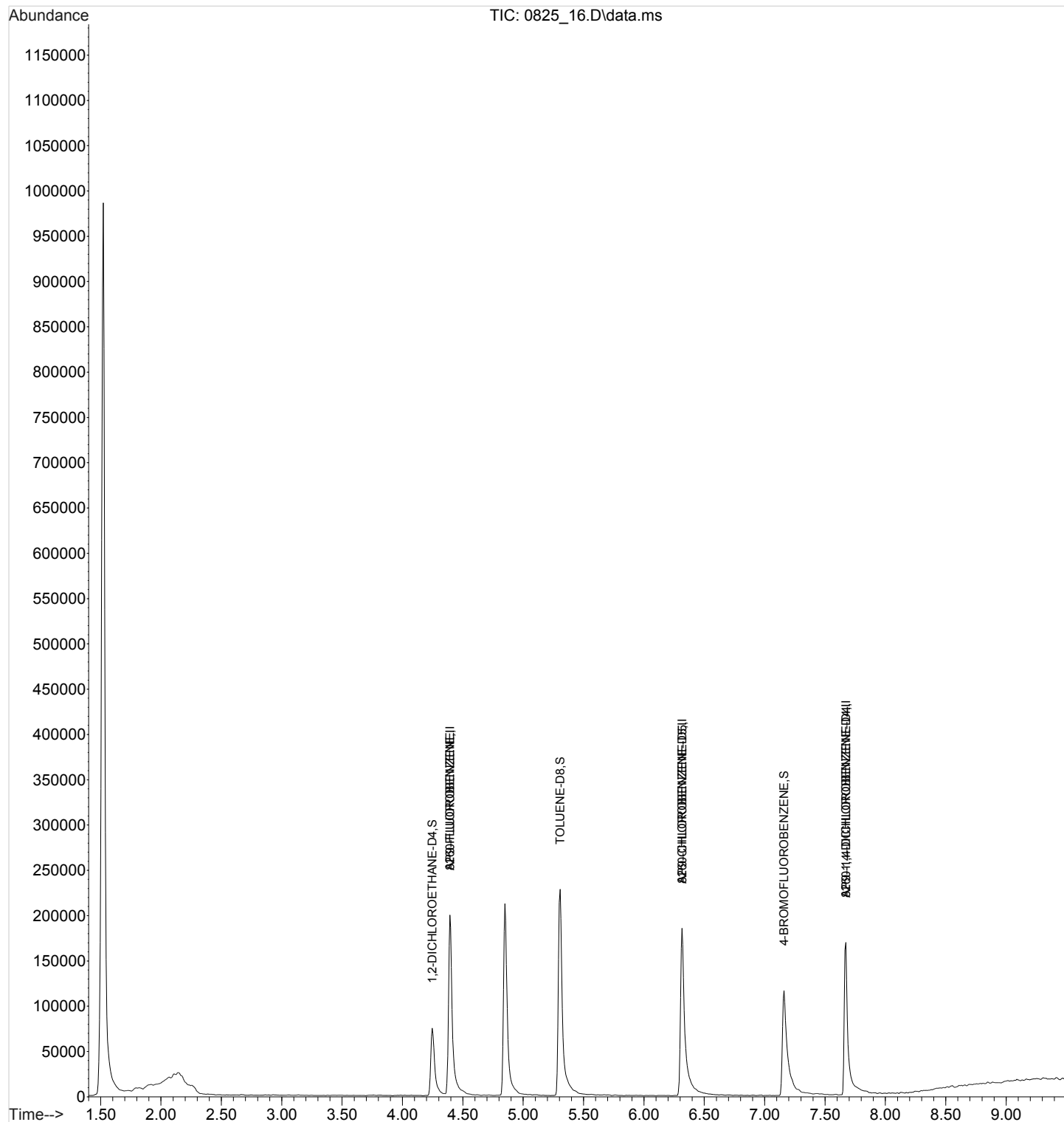
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

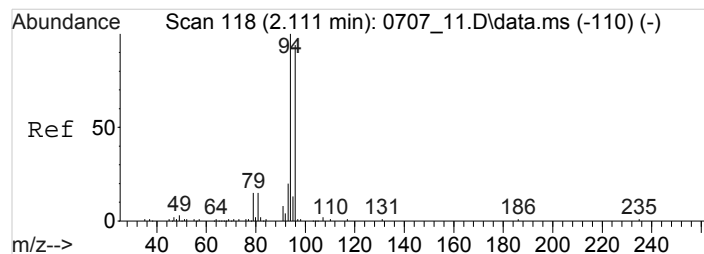
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	207453	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.315	82	77123	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.672	152	64559	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.393	96	205675	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.315	82	77123	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.672	152	64559	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.247	65	62932	15.5883761	ppb	0.00
Spiked Amount 16.000			Recovery	=	97.43%	
61) TOLUENE-D8	5.305	98	215943	17.1880329	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	107.43%	
80) 4-BROMOFLUOROBENZENE	7.161	95	70840	16.0957123	ppb	0.01
Spiked Amount 16.000	Range	80 - 120	Recovery	=	100.60%	
Target Compounds						
9) BROMOMETHANE	2.093	94	275	Below Cal	Qvalue #	70

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

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_16.D
Acq On : 25 Aug 2020 5:18 am
Operator : 808
Sample : L1253450-01 1x WG1531654
Misc : water
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Aug 25 10:57:10 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration





#9

BROMOMETHANE

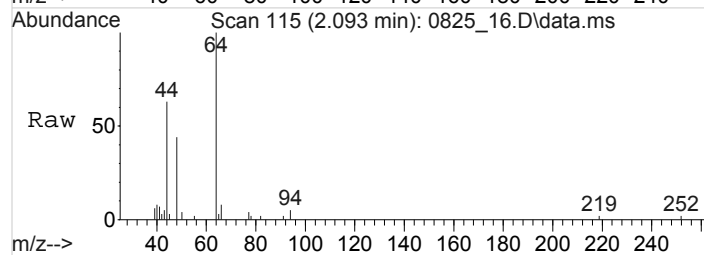
Concen: Below Cal

RT: 2.093 min Scan# 115

Delta R.T. -0.018 min

Lab File: 0825_16.D

Acq: 25 Aug 2020 5:18 am



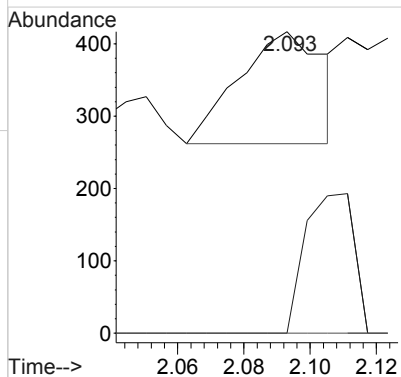
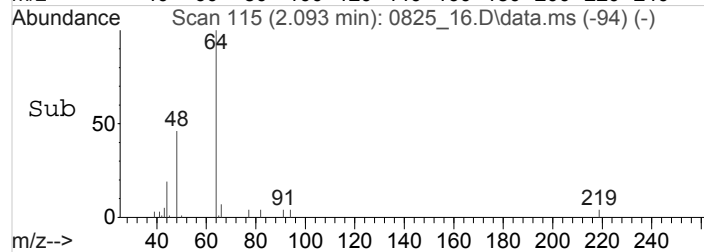
Tgt Ion: 94 Resp: 275

Ion Ratio Lower Upper

94 100

96 71.6 78.4 117.6#

93 0.0 17.7 26.5#



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253450-02
Client Sample ID: MW-01I
Lab File ID: 0825_17
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/18/20 11:35
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 05:38
Analysis Date/Time: 08/25/20 05:38
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND	J4	0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

Lab Sample ID:	L1253450-02	SDG:	L1253450
Client Sample ID:	MW-01I	Collected Date/Time:	08/18/20 11:35
Lab File ID:	0825_17	Received Date/Time:	08/21/20 09:31
Instrument ID:	VOCMS7	Preparation Date/Time:	08/25/20 05:38
Analytical Batch:	WG1531654	Analysis Date/Time:	08/25/20 05:38
Dilution Factor:	1	Prep Method:	8260B
Analytical Method:	8260B	Sample Vol Used:	5 mL
Matrix:	GW	Initial Wt/Vol:	
Total Solids (%):		Final Wt/Vol:	5 mL

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			mg/l		mg/l	mg/l
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND	J4	0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_17.D
 Acq On : 25 Aug 2020 5:38 am
 Operator : 808
 Sample : L1253450-02 1x WG1531654
 Misc : water
 ALS Vial : 17 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:57:42 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

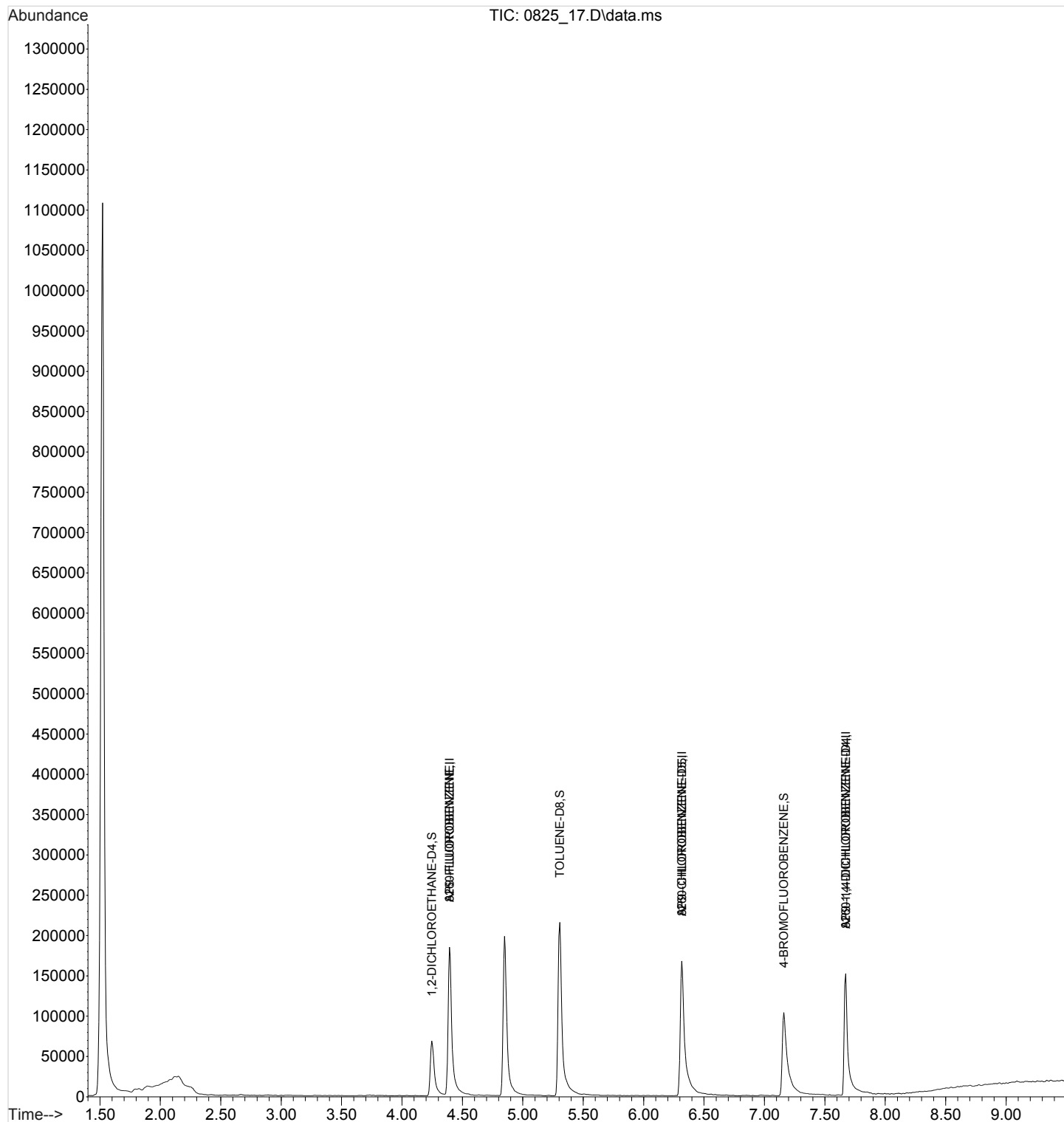
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

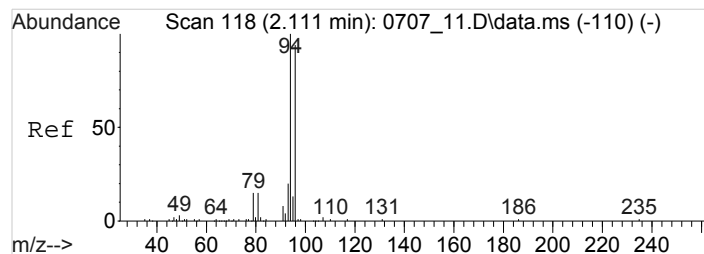
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	192258	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.315	82	70674	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.672	152	62895	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.393	96	190623	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.315	82	70674	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.672	152	62895	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.247	65	59837	15.9931663	ppb	0.00
Spiked Amount 16.000			Recovery	=	99.96%	
61) TOLUENE-D8	5.305	98	197248	17.1326245	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	107.08%	
80) 4-BROMOFLUOROBENZENE	7.161	95	64749	16.0542106	ppb	0.01
Spiked Amount 16.000	Range	80 - 120	Recovery	=	100.34%	
Target Compounds						
9) BROMOMETHANE	2.111	94	400	Below Cal	Qvalue #	11

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

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_17.D
Acq On : 25 Aug 2020 5:38 am
Operator : 808
Sample : L1253450-02 1x WG1531654
Misc : water
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Aug 25 10:57:42 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration





#9

BROMOMETHANE

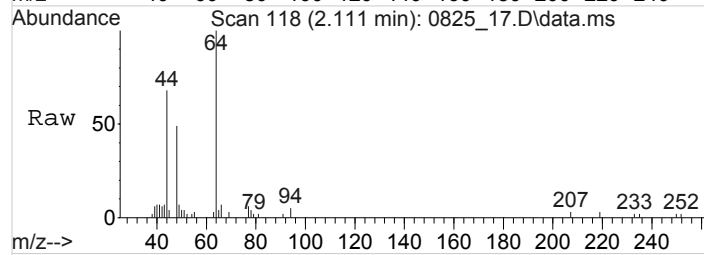
Concen: Below Cal

RT: 2.111 min Scan# 118

Delta R.T. 0.000 min

Lab File: 0825_17.D

Acq: 25 Aug 2020 5:38 am



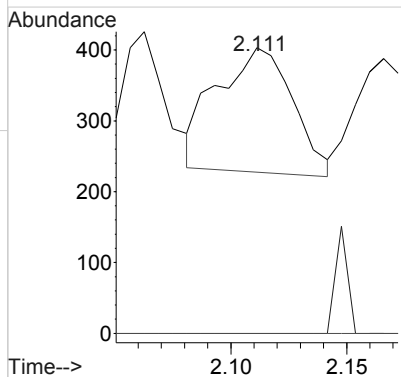
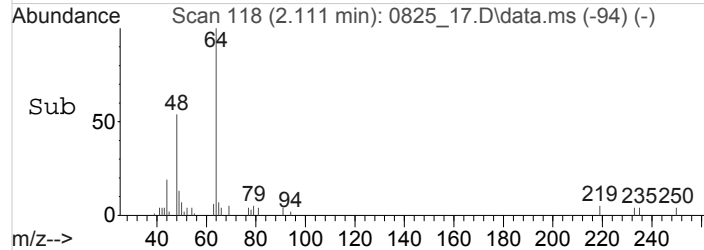
Tgt Ion: 94 Resp: 400

Ion Ratio Lower Upper

94 100

96 0.0 78.4 117.6#

93 0.0 17.7 26.5#





1A-OR

SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-01D

Lab Sample ID: L1253450-03
Client Sample ID: MW-01D
Lab File ID: 0825_18
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/18/20 12:28
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 05:57
Analysis Date/Time: 08/25/20 05:57
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND	J4	0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253450-03
Client Sample ID: MW-01D
Lab File ID: 0825_18
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/18/20 12:28
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 05:57
Analysis Date/Time: 08/25/20 05:57
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND	J4	0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_18.D
 Acq On : 25 Aug 2020 5:57 am
 Operator : 808
 Sample : L1253450-03 1x WG1531654
 Misc : water
 ALS Vial : 18 Sample Multiplier: 1
 InstName : VOCMS7

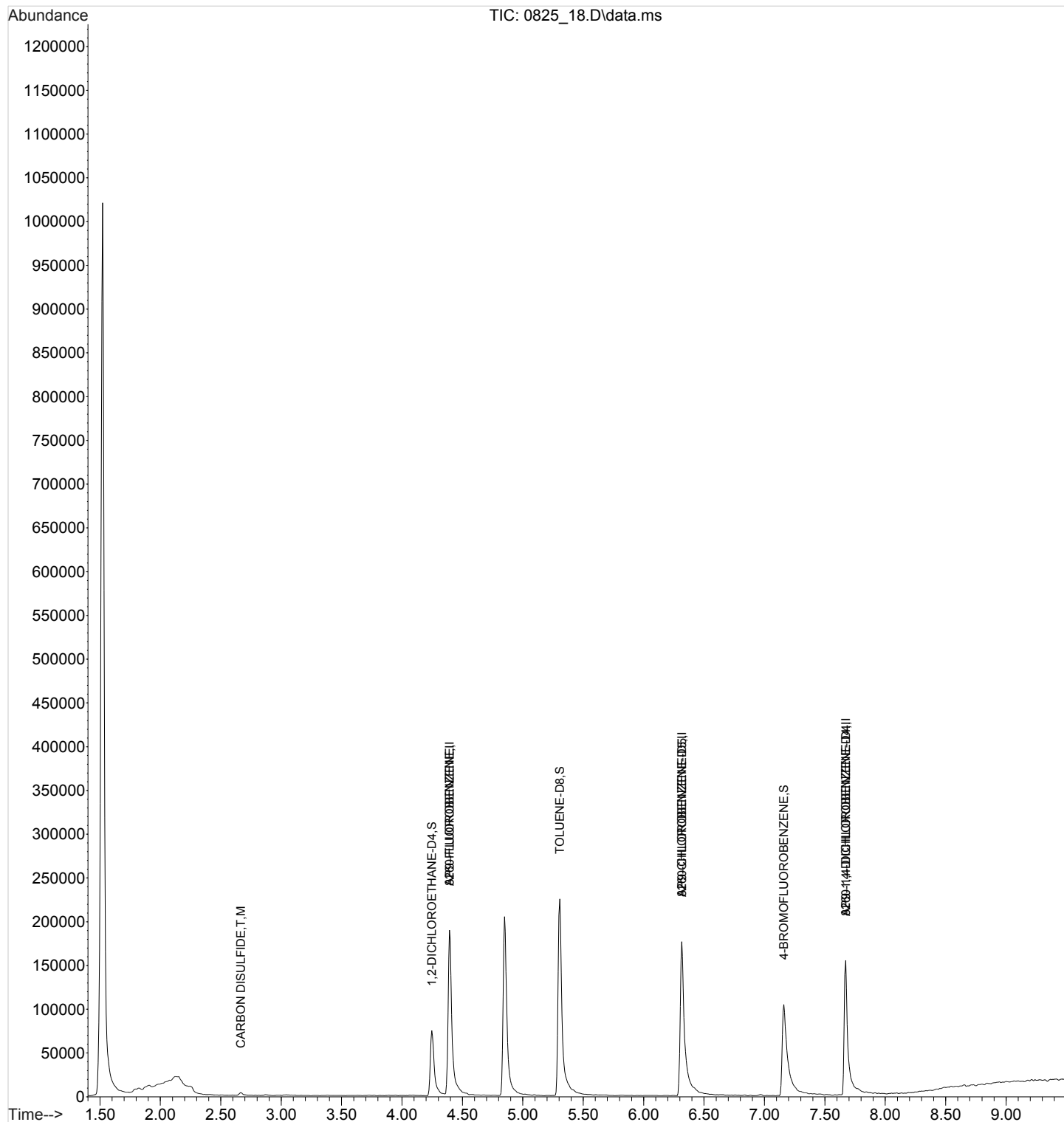
Quant Time: Aug 25 10:58:12 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

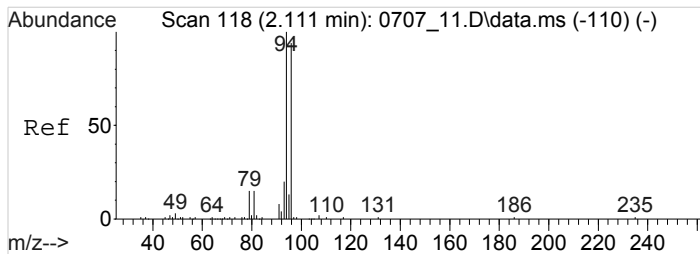
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	198702	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.315	82	73492	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.672	152	62954	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.393	96	196996	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.315	82	73492	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.672	152	62954	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.247	65	61077	15.7951778	ppb	0.00
Spiked Amount 16.000			Recovery	=	98.72%	
61) TOLUENE-D8	5.305	98	207501	17.3320961	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	108.33%	
80) 4-BROMOFLUOROBENZENE	7.161	95	68292	16.2834089	ppb	0.01
Spiked Amount 16.000	Range	80 - 120	Recovery	=	101.77%	
Target Compounds						
9) BROMOMETHANE	2.117	94	287	Below Cal	Qvalue # 11	
21) CARBON DISULFIDE	2.665	76	4651	0.3983499	ppb #	80

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

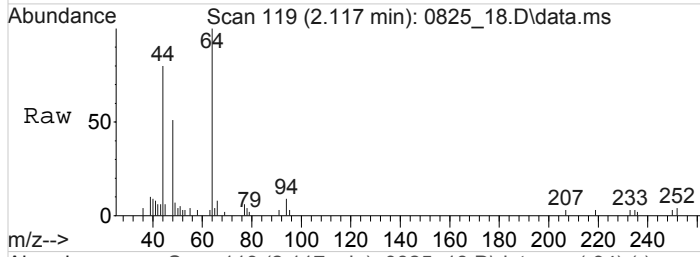
Data Path : C:\msdchem\1\data\082520\
Data File : 0825_18.D
Acq On : 25 Aug 2020 5:57 am
Operator : 808
Sample : L1253450-03 1x WG1531654
Misc : water
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Aug 25 10:58:12 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration

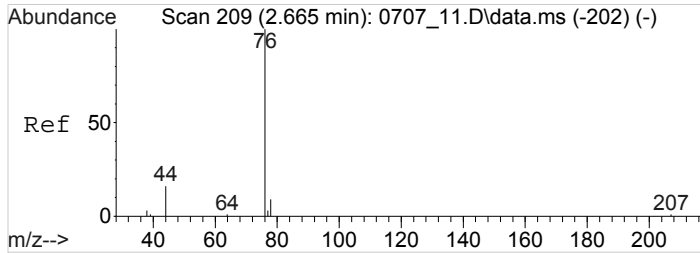
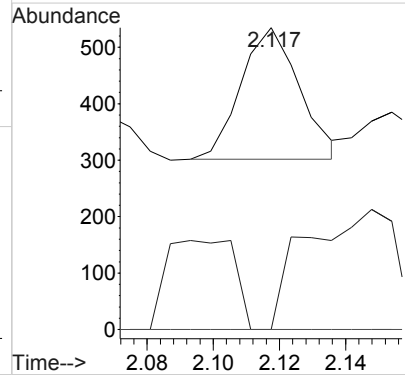
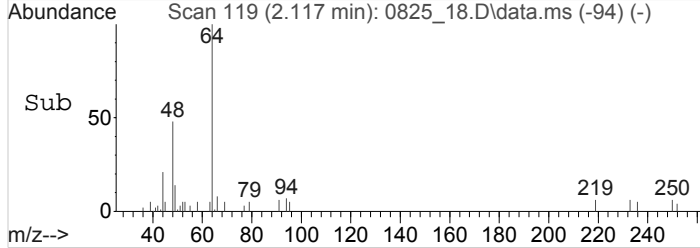




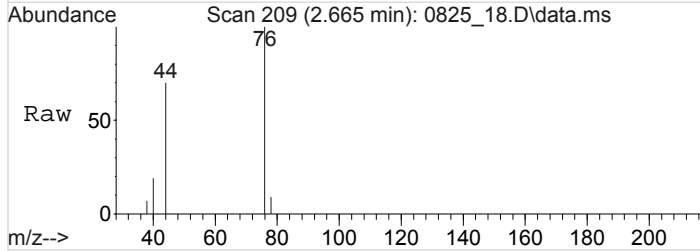
#9
BROMOMETHANE
Concen: Below Cal
RT: 2.117 min Scan# 119
Delta R.T. 0.006 min
Lab File: 0825_18.D
Acq: 25 Aug 2020 5:57 am



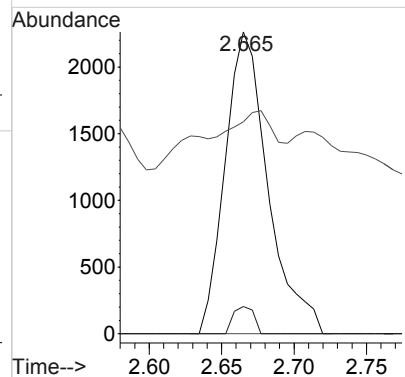
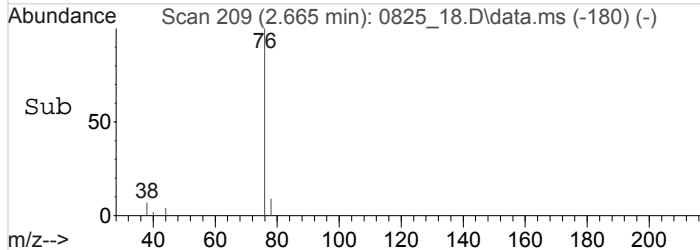
Tgt Ion: 94 Resp: 287
Ion Ratio Lower Upper
94 100
96 0.0 78.4 117.6#
93 0.0 17.7 26.5#



#21
CARBON DISULFIDE
Concen: 0.3983499 ppb
RT: 2.665 min Scan# 209
Delta R.T. 0.001 min
Lab File: 0825_18.D
Acq: 25 Aug 2020 5:57 am



Tgt Ion: 76 Resp: 4651
Ion Ratio Lower Upper
76 100
78 4.3 8.6 13.0#
44 6.3 12.3 18.5#





1A-OR

SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-5I

Lab Sample ID: L1253450-04
Client Sample ID: MW-5I
Lab File ID: 0825_19
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/18/20 16:58
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 06:17
Analysis Date/Time: 08/25/20 06:17
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND	J4	0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253450-04
Client Sample ID: MW-5I
Lab File ID: 0825_19
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/18/20 16:58
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 06:17
Analysis Date/Time: 08/25/20 06:17
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND	J4	0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_19.D
 Acq On : 25 Aug 2020 6:17 am
 Operator : 808
 Sample : L1253450-04 1x WG1531654
 Misc : water
 ALS Vial : 19 Sample Multiplier: 1
 InstName : VOCMS7

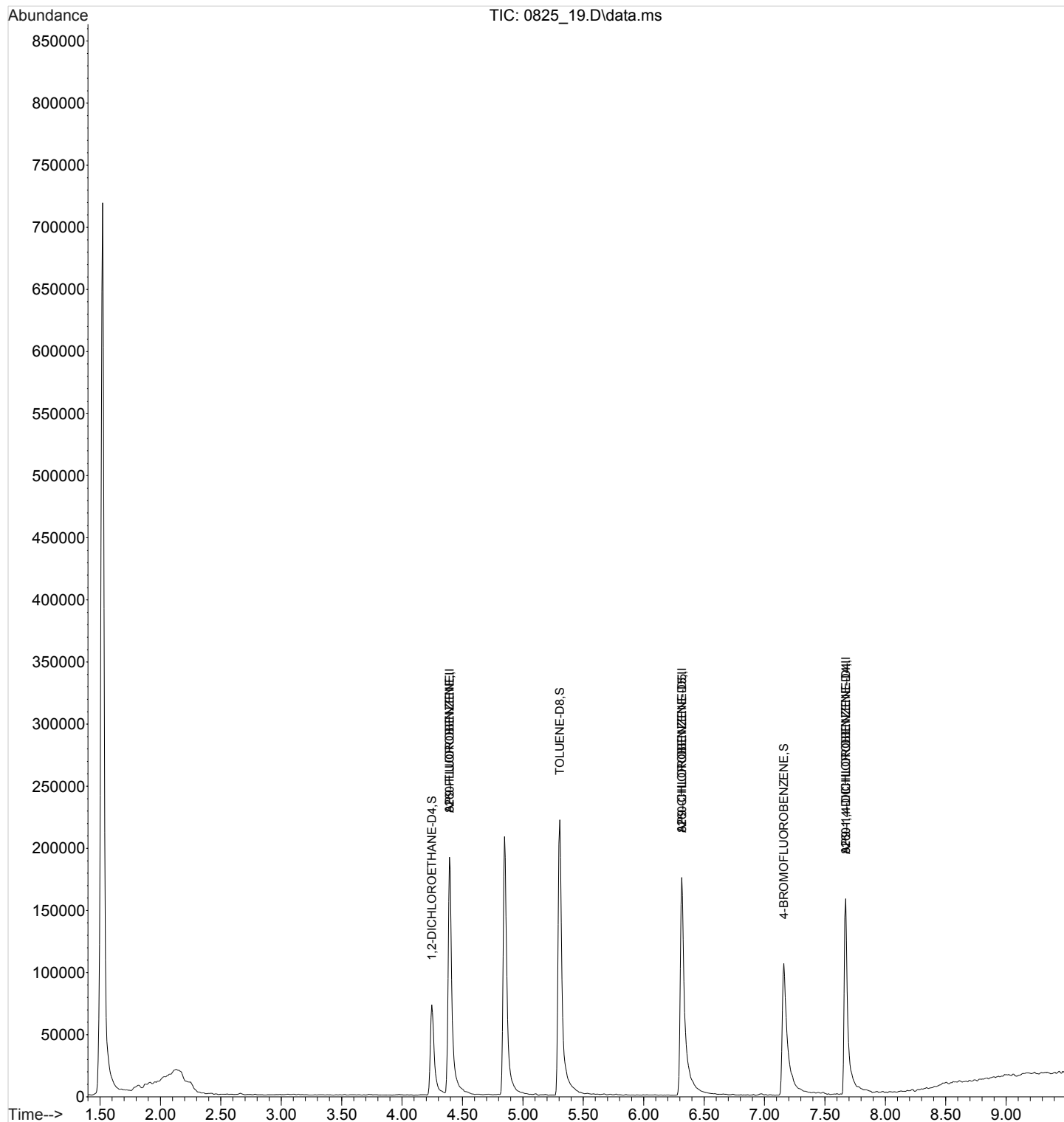
Quant Time: Aug 25 10:58:39 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

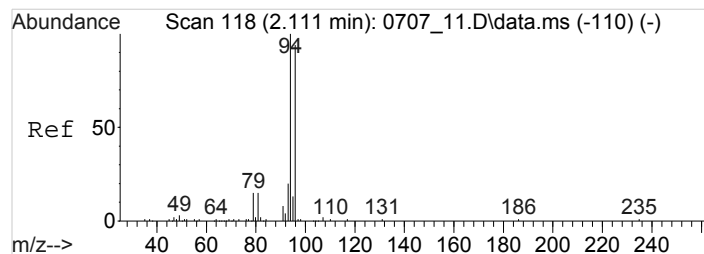
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.392	96	199625	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.315	82	73738	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.672	152	64482	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.392	96	198002	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.315	82	73738	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.672	152	64482	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.246	65	61996	15.9587107	ppb	0.00
Spiked Amount	16.000		Recovery	=	99.74%	
61) TOLUENE-D8	5.305	98	203538	16.9443576	ppb	0.00
Spiked Amount	16.000	Range	90 - 115	Recovery	=	105.90%
80) 4-BROMOFLUOROBENZENE	7.160	95	65731	15.6204827	ppb	0.01
Spiked Amount	16.000	Range	80 - 120	Recovery	=	97.63%
Target Compounds						
9) BROMOMETHANE	2.105	94	322	Below Cal	Qvalue #	11

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

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_19.D
Acq On : 25 Aug 2020 6:17 am
Operator : 808
Sample : L1253450-04 1x WG1531654
Misc : water
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Aug 25 10:58:39 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration





#9

BROMOMETHANE

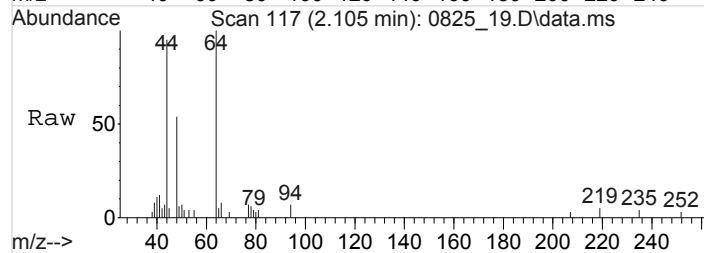
Concen: Below Cal

RT: 2.105 min Scan# 117

Delta R.T. -0.006 min

Lab File: 0825_19.D

Acq: 25 Aug 2020 6:17 am



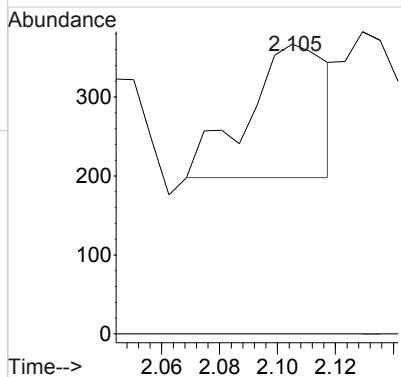
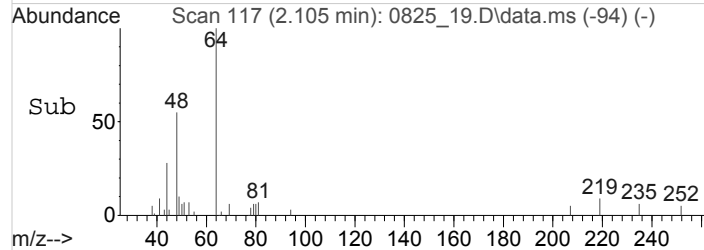
Tgt Ion: 94 Resp: 322

Ion Ratio Lower Upper

94 100

96 0.0 78.4 117.6#

93 0.0 17.7 26.5#



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-10S

Lab Sample ID: L1253450-05
Client Sample ID: MW-10S
Lab File ID: 0825_20
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/18/20 15:04
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 06:37
Analysis Date/Time: 08/25/20 06:37
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND	J4	0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253450-05
Client Sample ID: MW-10S
Lab File ID: 0825_20
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/18/20 15:04
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 06:37
Analysis Date/Time: 08/25/20 06:37
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND	J4	0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_20.D
 Acq On : 25 Aug 2020 6:37 am
 Operator : 808
 Sample : L1253450-05 1x WG1531654
 Misc : water
 ALS Vial : 20 Sample Multiplier: 1
 InstName : VOCMS7

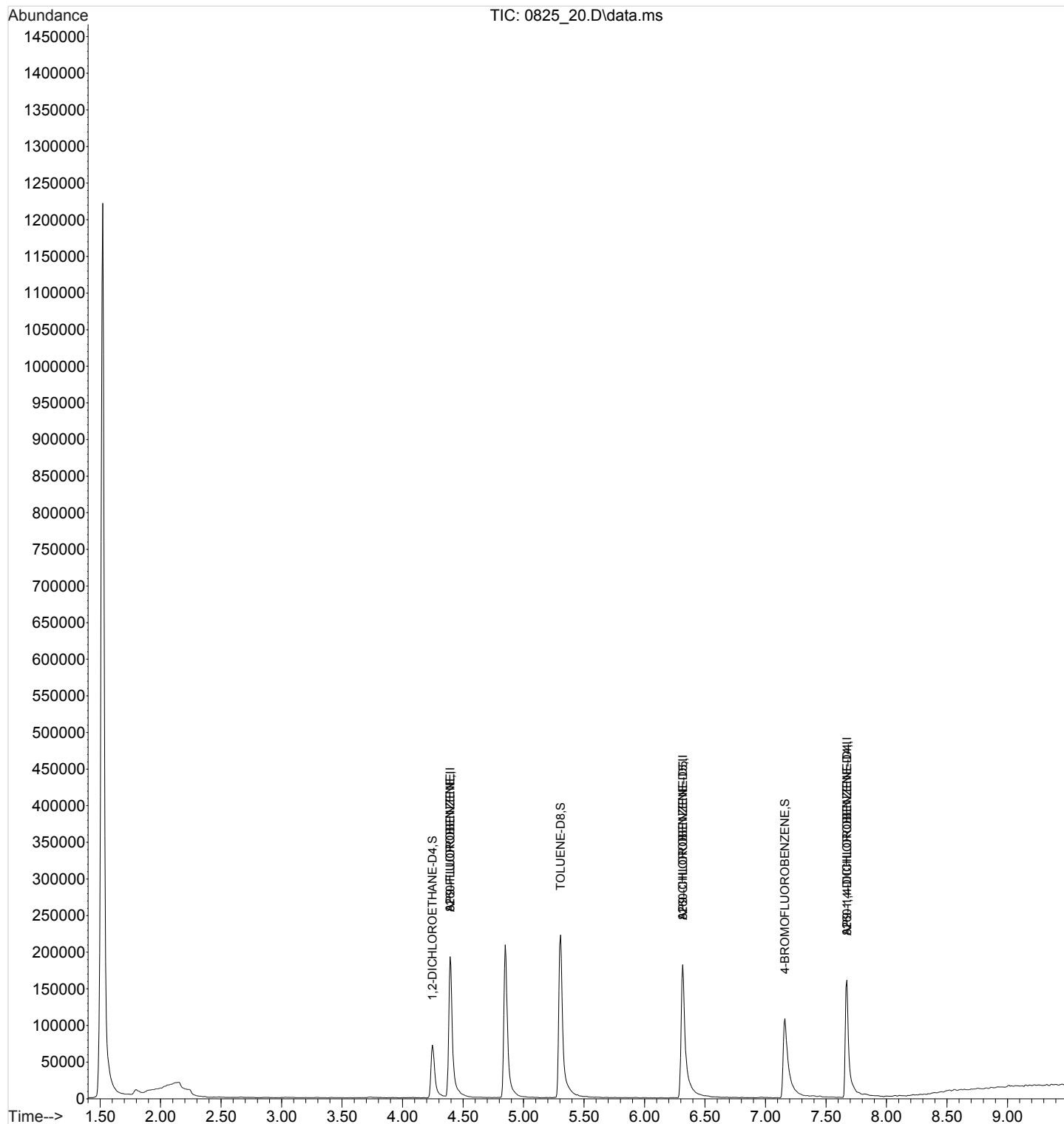
Quant Time: Aug 25 10:58:58 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

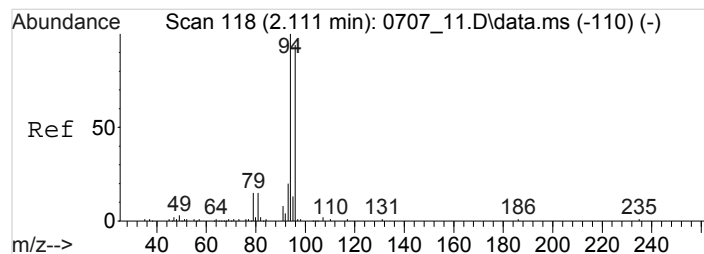
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	201901	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.315	82	75825	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.672	152	66230	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.393	96	200150	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.315	82	75825	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.672	152	66230	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.247	65	61366	15.6184671	ppb	0.00
Spiked Amount 16.000			Recovery	=	97.62%	
61) TOLUENE-D8	5.305	98	208475	16.8776713	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	105.49%	
80) 4-BROMOFLUOROBENZENE	7.161	95	67114	15.5101596	ppb	0.01
Spiked Amount 16.000	Range	80 - 120	Recovery	=	96.94%	
Target Compounds						
9) BROMOMETHANE	2.130	94	555	Below Cal	Qvalue #	11

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

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_20.D
Acq On : 25 Aug 2020 6:37 am
Operator : 808
Sample : L1253450-05 1x WG1531654
Misc : water
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Aug 25 10:58:58 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration





#9

BROMOMETHANE

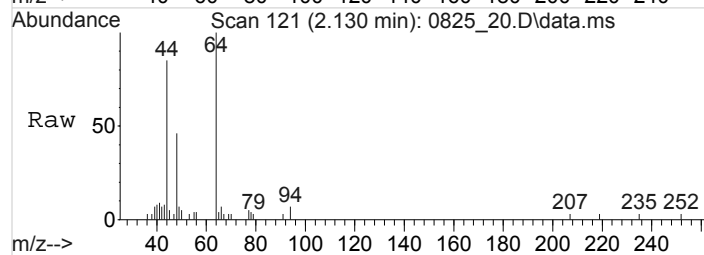
Concen: Below Cal

RT: 2.130 min Scan# 121

Delta R.T. 0.019 min

Lab File: 0825_20.D

Acq: 25 Aug 2020 6:37 am



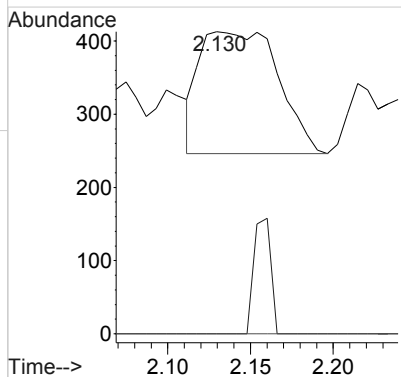
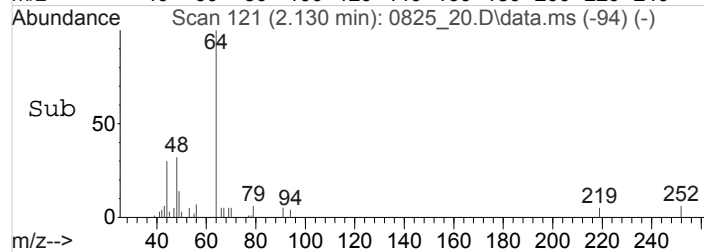
Tgt Ion: 94 Resp: 555

Ion Ratio Lower Upper

94 100

96 0.0 78.4 117.6#

93 0.0 17.7 26.5#



SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET



Lab Sample ID: L1253450-06
Client Sample ID: MW-101
Lab File ID: 0825_21
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/18/20 16:08
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 06:56
Analysis Date/Time: 08/25/20 06:56
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND	J4	0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253450-06
Client Sample ID: MW-10I
Lab File ID: 0825_21
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/18/20 16:08
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 06:56
Analysis Date/Time: 08/25/20 06:56
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND	J4	0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_21.D
 Acq On : 25 Aug 2020 6:56 am
 Operator : 808
 Sample : L1253450-06 1x WG1531654
 Misc : water
 ALS Vial : 21 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:59:22 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

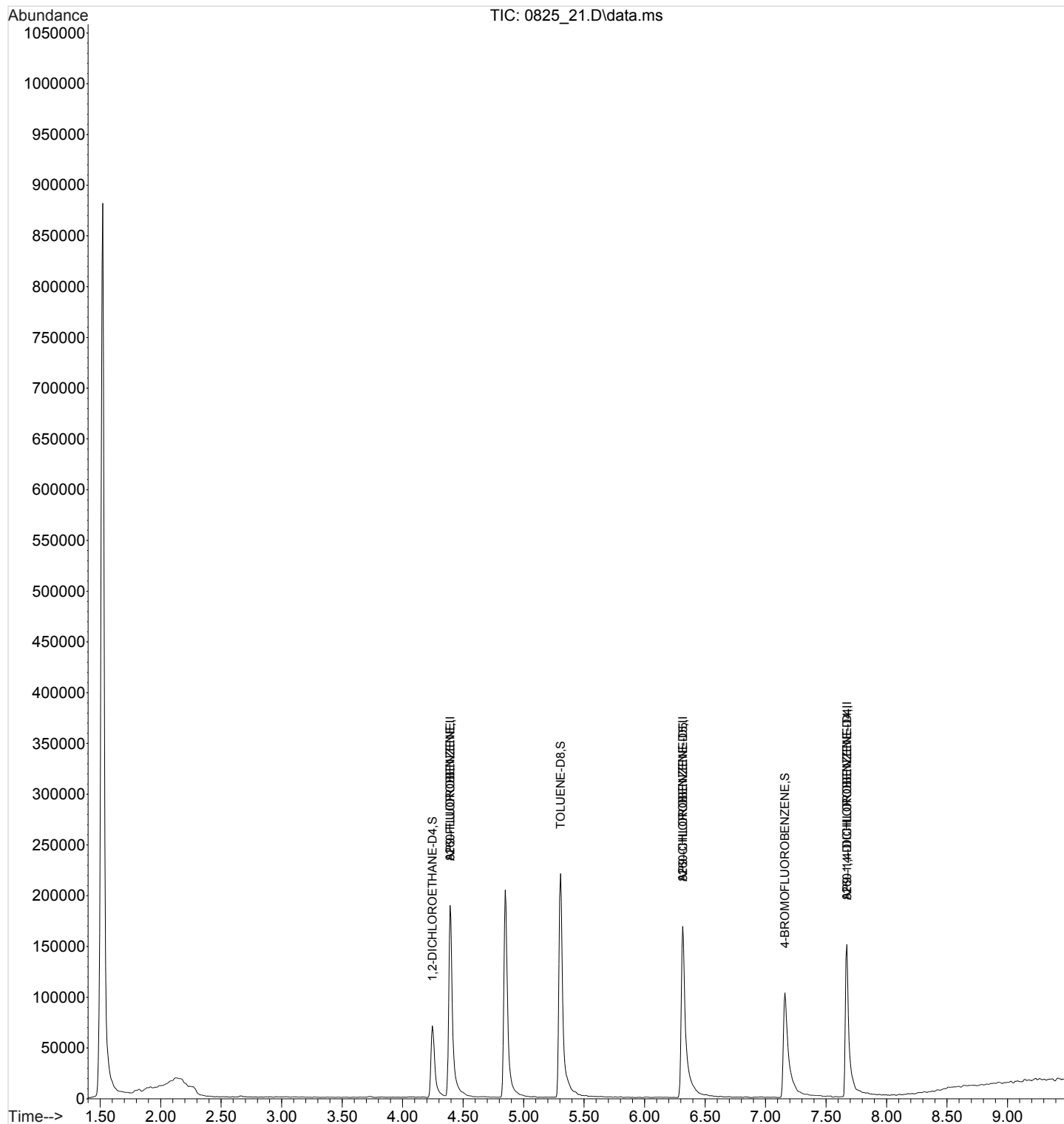
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

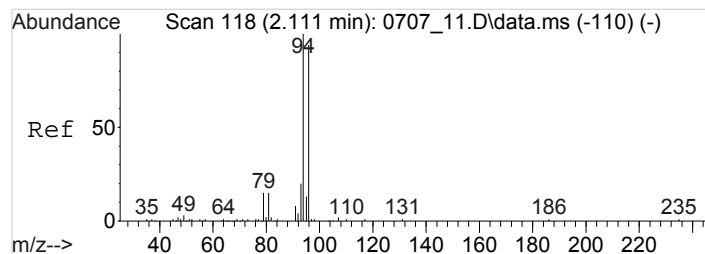
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	197468	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.315	82	73169	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.672	152	60573	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.393	96	195929	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.315	82	73169	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.672	152	60573	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.247	65	59978	15.6078943	ppb	0.00
Spiked Amount 16.000			Recovery	=	97.55%	
61) TOLUENE-D8	5.305	98	200372	16.8105094	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	105.07%	
80) 4-BROMOFLUOROBENZENE	7.161	95	64951	15.5551530	ppb	0.01
Spiked Amount 16.000	Range	80 - 120	Recovery	=	97.22%	
Target Compounds						
9) BROMOMETHANE	2.081	94	291	Below Cal	Qvalue #	11

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

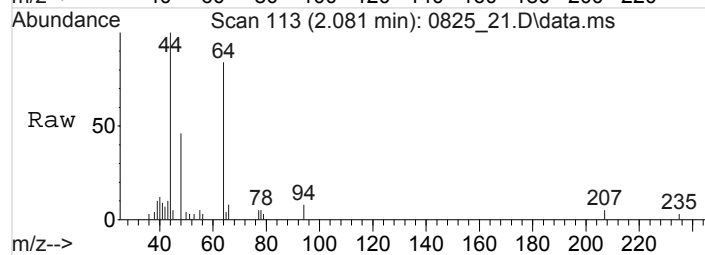
Data Path : C:\msdchem\1\data\082520\
Data File : 0825_21.D
Acq On : 25 Aug 2020 6:56 am
Operator : 808
Sample : L1253450-06 1x WG1531654
Misc : water
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Aug 25 10:59:22 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration

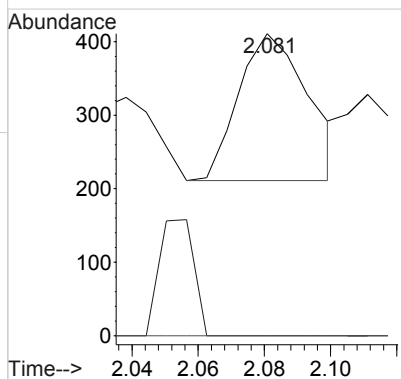
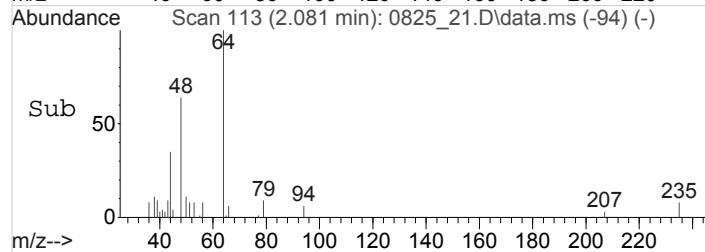




#9
 BROMOMETHANE
 Concen: Below Cal
 RT: 2.081 min Scan# 113
 Delta R.T. -0.030 min
 Lab File: 0825_21.D
 Acq: 25 Aug 2020 6:56 am



Tgt Ion: 94 Resp: 291
 Ion Ratio Lower Upper
 94 100
 96 0.0 78.4 117.6#
 93 0.0 17.7 26.5#



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-131

Lab Sample ID: L1253450-07
Client Sample ID: MW-131
Lab File ID: 0825_22
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/18/20 14:06
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 07:16
Analysis Date/Time: 08/25/20 07:16
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND	J4	0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND	J5	0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

Lab Sample ID:

Client Sample ID:

Lab File ID:

Instrument ID:

Analytical Batch:

Dilution Factor:

Analytical Method:

Matrix:

Total Solids (%):

L1253450-07

MW-13I

0825_22

VOCMS7

WG1531654

1

8260B

GW

SDG:

Collected Date/Time:

Received Date/Time:

Preparation Date/Time:

Analysis Date/Time:

Prep Method:

Sample Vol Used:

Initial Wt/Vol:

Final Wt/Vol:

L1253450

08/18/20 14:06

08/21/20 09:31

08/25/20 07:16

08/25/20 07:16

8260B

5 mL

5 mL

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			mg/l		mg/l	mg/l
Methylene Chloride	75-09-2	0	ND	J5	0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND	J4	0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_22.D
 Acq On : 25 Aug 2020 7:16 am
 Operator : 808
 Sample : L1253450-07 1x WG1531654
 Misc : water
 ALS Vial : 22 Sample Multiplier: 1
 InstName : VOCMS7

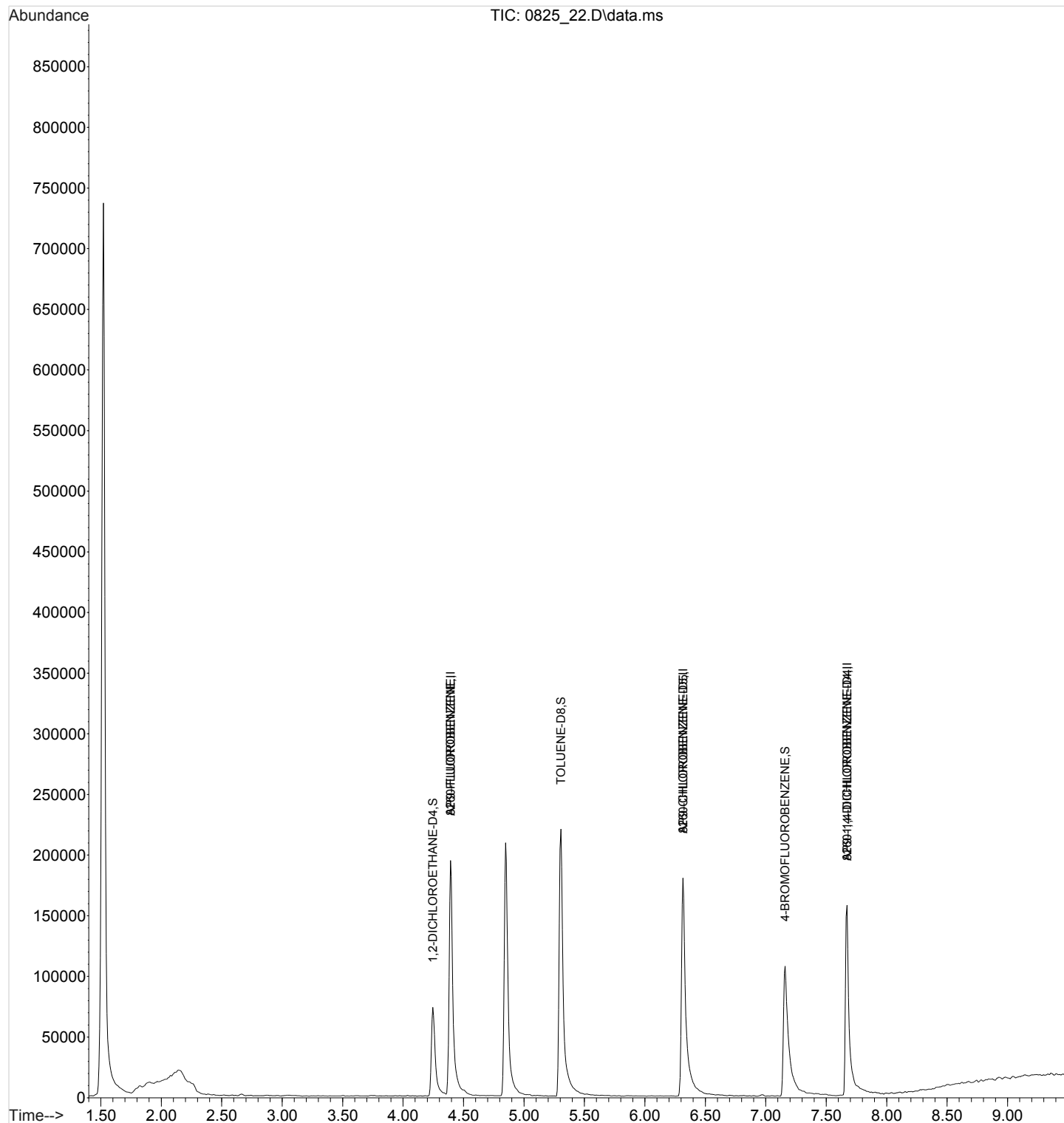
Quant Time: Aug 25 10:59:46 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

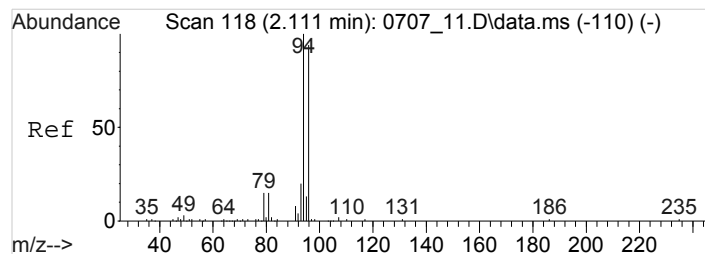
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.392	96	200856	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.315	82	75595	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.672	152	65262	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.392	96	199051	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.315	82	75595	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.672	152	65262	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.246	65	60896	15.5794822	ppb	0.00
Spiked Amount 16.000			Recovery	=	97.37%	
61) TOLUENE-D8	5.305	98	206984	16.8079468	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	105.05%	
80) 4-BROMOFLUOROBENZENE	7.160	95	67084	15.5503956	ppb	0.01
Spiked Amount 16.000	Range	80 - 120	Recovery	=	97.19%	
Target Compounds						
9) BROMOMETHANE	2.069	94	155	Below Cal	Qvalue #	11

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

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_22.D
Acq On : 25 Aug 2020 7:16 am
Operator : 808
Sample : L1253450-07 1x WG1531654
Misc : water
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Aug 25 10:59:46 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration





#9

BROMOMETHANE

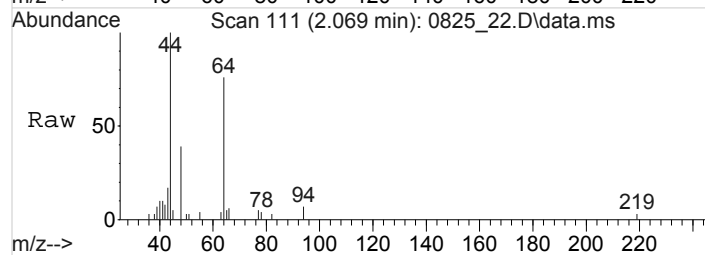
Concen: Below Cal

RT: 2.069 min Scan# 111

Delta R.T. -0.042 min

Lab File: 0825_22.D

Acq: 25 Aug 2020 7:16 am



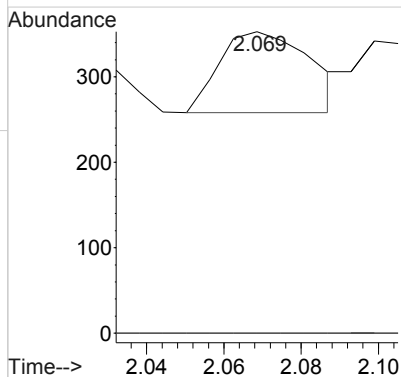
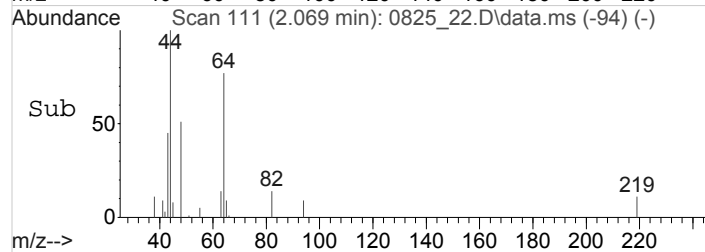
Tgt Ion: 94 Resp: 155

Ion Ratio Lower Upper

94 100

96 0.0 78.4 117.6#

93 0.0 17.7 26.5#



SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253450-08
Client Sample ID: DUP-1
Lab File ID: 0825_23
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/18/20 00:00
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 07:36
Analysis Date/Time: 08/25/20 07:36
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	3.05	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND	J4	0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253450-08
Client Sample ID: DUP-1
Lab File ID: 0825_23
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/18/20 00:00
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 07:36
Analysis Date/Time: 08/25/20 07:36
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND	J4	0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_23.D
 Acq On : 25 Aug 2020 7:36 am
 Operator : 808
 Sample : L1253450-08 1x WG1531654
 Misc : water
 ALS Vial : 23 Sample Multiplier: 1
 InstName : VOCMS7

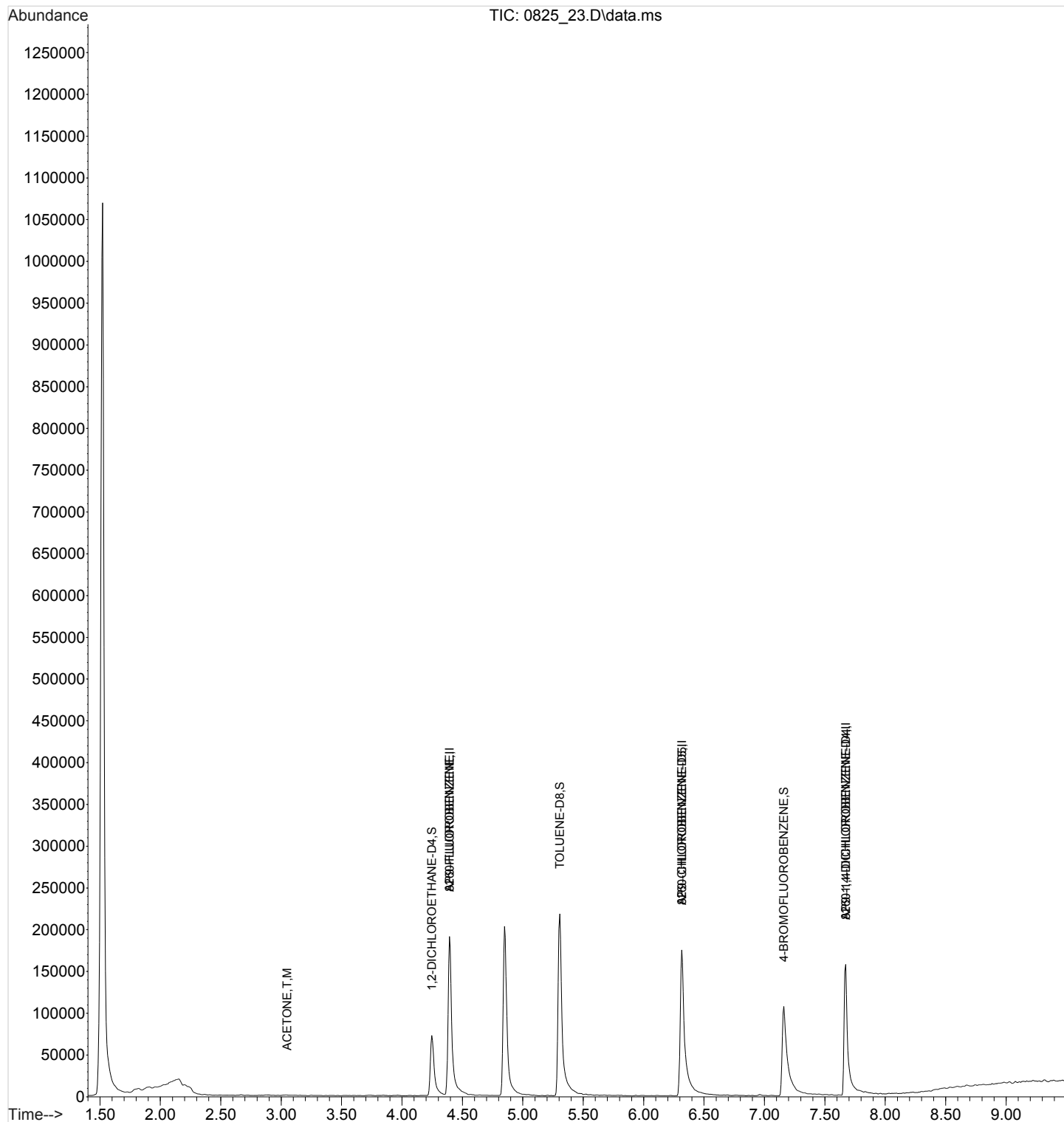
Quant Time: Aug 25 11:00:12 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

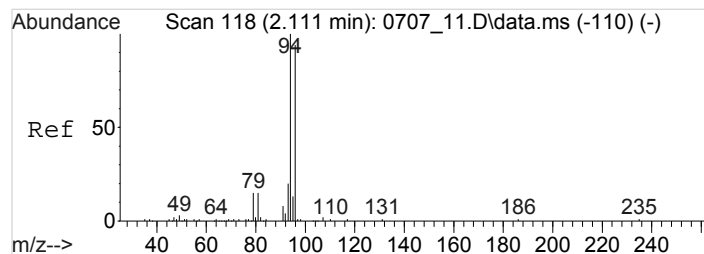
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	197450	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.315	82	74162	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.672	152	63861	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.393	96	195827	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.315	82	74162	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.672	152	63861	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.247	65	60051	15.6283154	ppb	0.00
Spiked Amount 16.000			Recovery	=	97.68%	
61) TOLUENE-D8	5.305	98	201659	16.6919523	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	104.32%	
80) 4-BROMOFLUOROBENZENE	7.161	95	69460	16.4122797	ppb	0.01
Spiked Amount 16.000	Range	80 - 120	Recovery	=	102.58%	
Target Compounds						
9) BROMOMETHANE	2.111	94	329	Below Cal	Qvalue # 11	
19) ACETONE	3.048	43	1151	0.5805949	ppb #	88

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

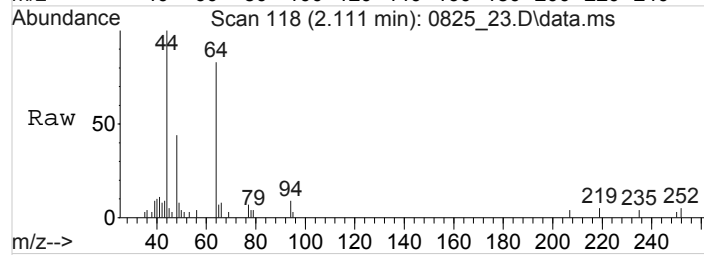
Data Path : C:\msdchem\1\data\082520\
Data File : 0825_23.D
Acq On : 25 Aug 2020 7:36 am
Operator : 808
Sample : L1253450-08 1x WG1531654
Misc : water
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Aug 25 11:00:12 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration

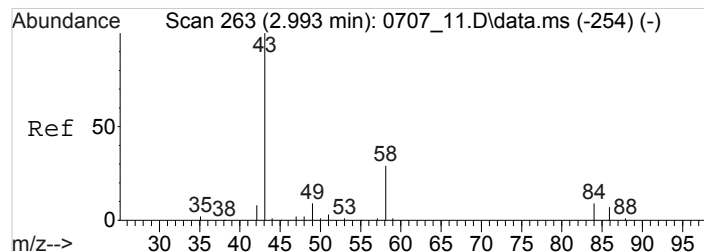
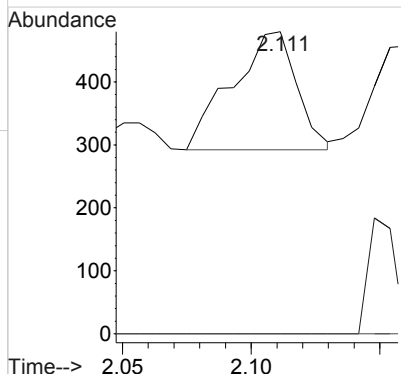
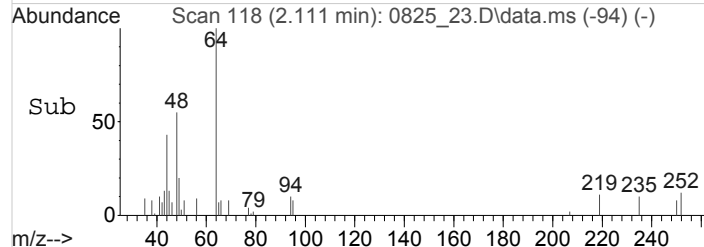




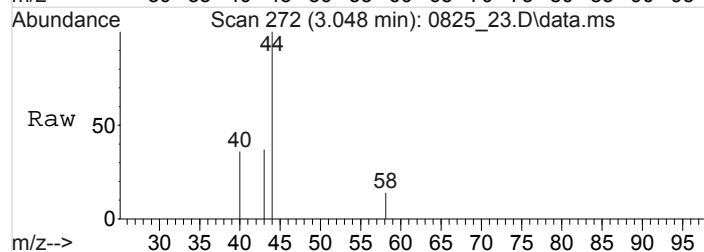
#9
BROMOMETHANE
Concen: Below Cal
RT: 2.111 min Scan# 118
Delta R.T. 0.000 min
Lab File: 0825_23.D
Acq: 25 Aug 2020 7:36 am



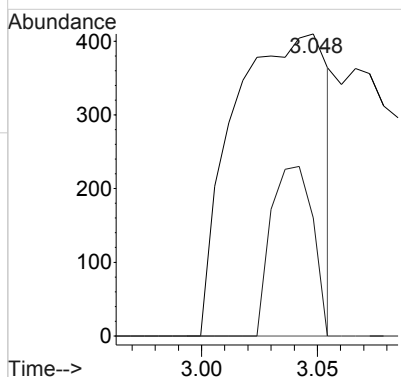
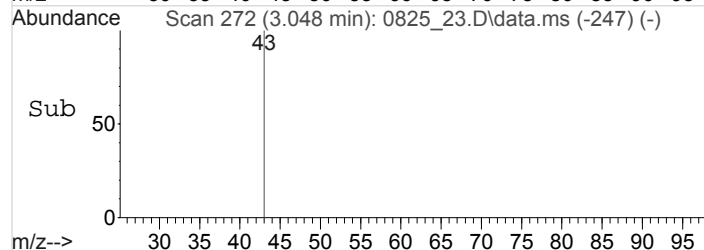
Tgt Ion: 94 Resp: 329
Ion Ratio Lower Upper
94 100
96 0.0 78.4 117.6#
93 0.0 17.7 26.5#



#19
ACETONE
Concen: 0.5805949 ppb
RT: 3.048 min Scan# 272
Delta R.T. 0.055 min
Lab File: 0825_23.D
Acq: 25 Aug 2020 7:36 am



Tgt Ion: 43 Resp: 1151
Ion Ratio Lower Upper
43 100
58 25.0 25.3 37.9#





1A-OR

SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

DUP-2

Lab Sample ID: L1253450-09
Client Sample ID: DUP-2
Lab File ID: 0825_24
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/18/20 00:00
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 07:55
Analysis Date/Time: 08/25/20 07:55
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND	J4	0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1253450-09	SDG:	L1253450
Client Sample ID:	DUP-2	Collected Date/Time:	08/18/20 00:00
Lab File ID:	0825_24	Received Date/Time:	08/21/20 09:31
Instrument ID:	VOCMS7	Preparation Date/Time:	08/25/20 07:55
Analytical Batch:	WG1531654	Analysis Date/Time:	08/25/20 07:55
Dilution Factor:	1	Prep Method:	8260B
Analytical Method:	8260B	Sample Vol Used:	5 mL
Matrix:	GW	Initial Wt/Vol:	
Total Solids (%):		Final Wt/Vol:	5 mL

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			mg/l		mg/l	mg/l
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND	J4	0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_24.D
 Acq On : 25 Aug 2020 7:55 am
 Operator : 808
 Sample : L1253450-09 1x WG1531654
 Misc : water
 ALS Vial : 24 Sample Multiplier: 1
 InstName : VOCMS7

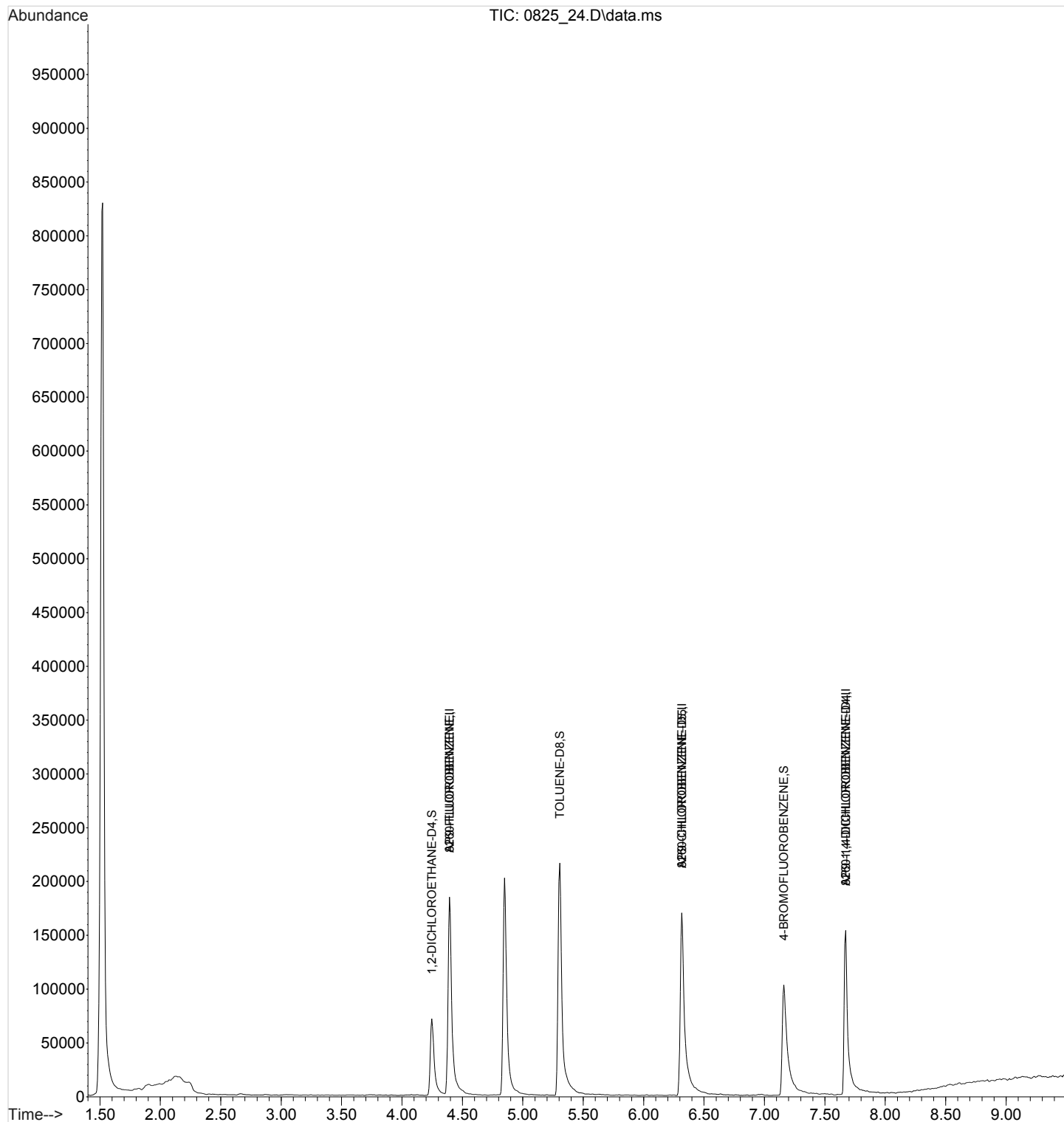
Quant Time: Aug 25 11:00:38 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

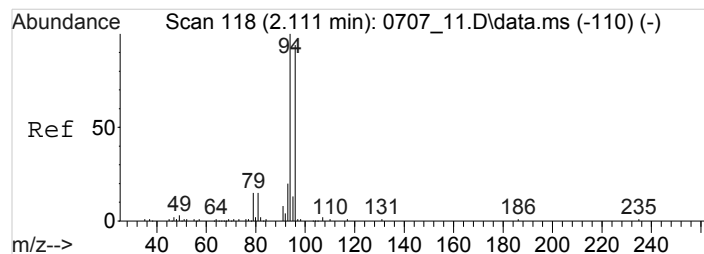
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	194250	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.315	82	72357	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.672	152	61181	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.393	96	192570	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.315	82	72357	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.672	152	61181	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.247	65	60336	15.9611636	ppb	0.00
Spiked Amount 16.000			Recovery	=	99.76%	
61) TOLUENE-D8	5.305	98	200527	17.0123091	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	106.33%	
80) 4-BROMOFLUOROBENZENE	7.161	95	62219	15.0680842	ppb	0.01
Spiked Amount 16.000	Range	80 - 120	Recovery	=	94.18%	
Target Compounds						
9) BROMOMETHANE	2.117	94	648	Below Cal	Qvalue #	11

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

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_24.D
Acq On : 25 Aug 2020 7:55 am
Operator : 808
Sample : L1253450-09 1x WG1531654
Misc : water
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Aug 25 11:00:38 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration





#9

BROMOMETHANE

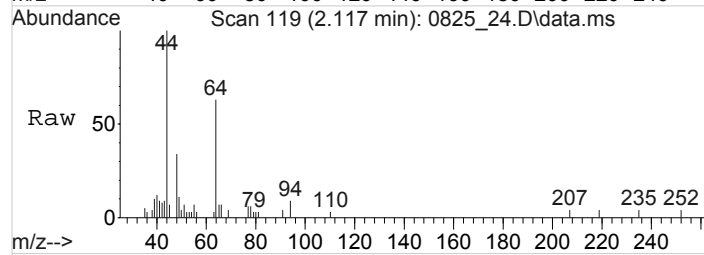
Concen: Below Cal

RT: 2.117 min Scan# 119

Delta R.T. 0.006 min

Lab File: 0825_24.D

Acq: 25 Aug 2020 7:55 am



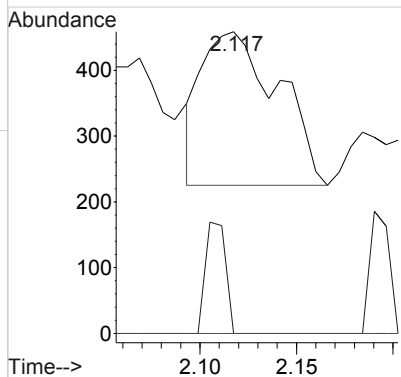
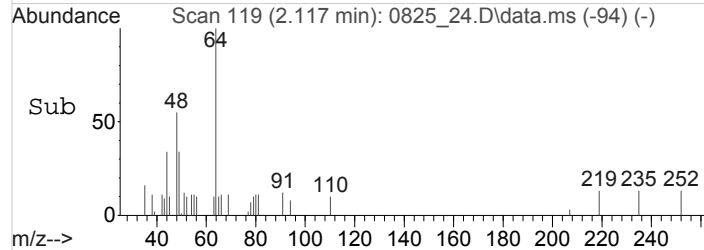
Tgt Ion: 94 Resp: 648

Ion Ratio Lower Upper

94 100

96 0.0 78.4 117.6#

93 0.0 17.7 26.5#



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-11I

Lab Sample ID: L1253450-10
Client Sample ID: MW-11I
Lab File ID: 0825_25
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/19/20 09:01
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 08:15
Analysis Date/Time: 08/25/20 08:15
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND	J4	0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253450-10
Client Sample ID: MW-11I
Lab File ID: 0825_25
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/19/20 09:01
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 08:15
Analysis Date/Time: 08/25/20 08:15
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND	J4	0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_25.D
 Acq On : 25 Aug 2020 8:15 am
 Operator : 808
 Sample : L1253450-10 1x WG1531654
 Misc : water
 ALS Vial : 25 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 11:01:00 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

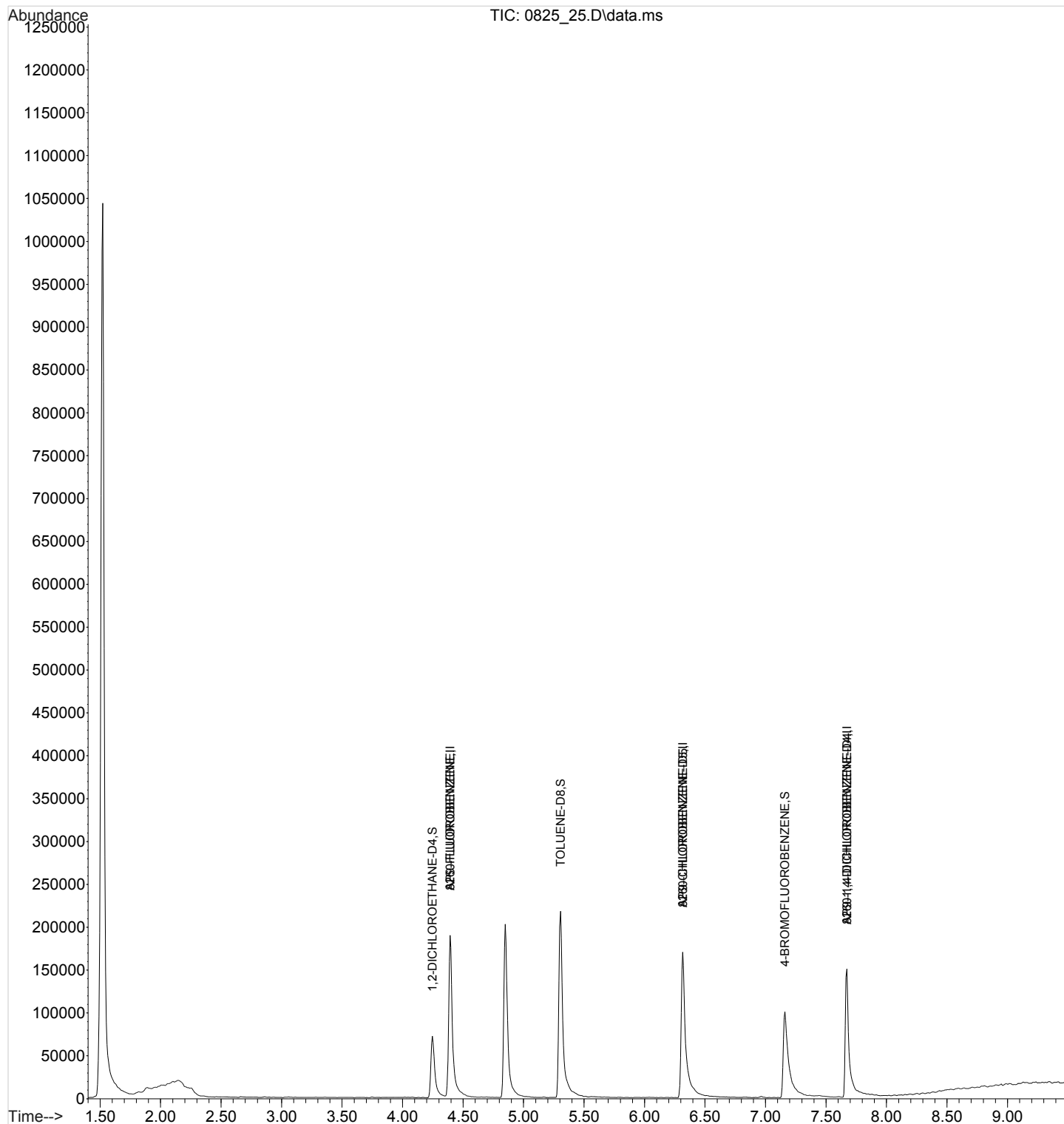
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

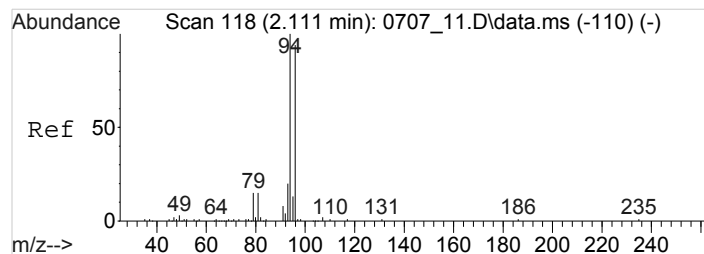
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	197308	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.315	82	71018	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.672	152	62830	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.393	96	195652	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.315	82	71018	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.672	152	62830	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.247	65	59155	15.4062104	ppb	0.00
Spiked Amount	16.000		Recovery	=	96.29%	
61) TOLUENE-D8	5.305	98	202020	17.4621168	ppb	0.00
Spiked Amount	16.000	Range	90 - 115	Recovery	=	109.14%
80) 4-BROMOFLUOROBENZENE	7.161	95	63084	15.5656173	ppb	0.01
Spiked Amount	16.000	Range	80 - 120	Recovery	=	97.29%
Target Compounds						
9) BROMOMETHANE	2.111	94	208	Below Cal	Qvalue #	11

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

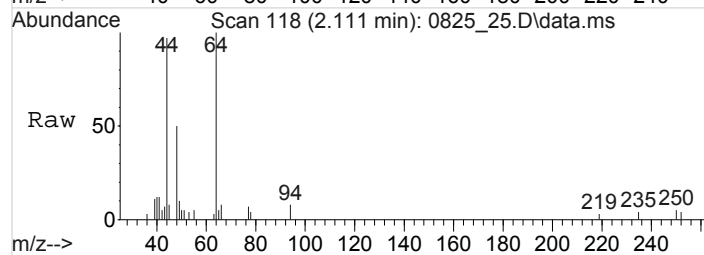
Data Path : C:\msdchem\1\data\082520\
Data File : 0825_25.D
Acq On : 25 Aug 2020 8:15 am
Operator : 808
Sample : L1253450-10 1x WG1531654
Misc : water
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Aug 25 11:01:00 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration

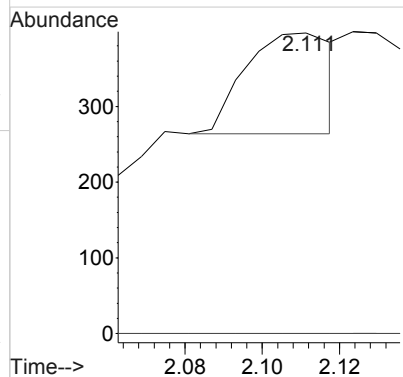
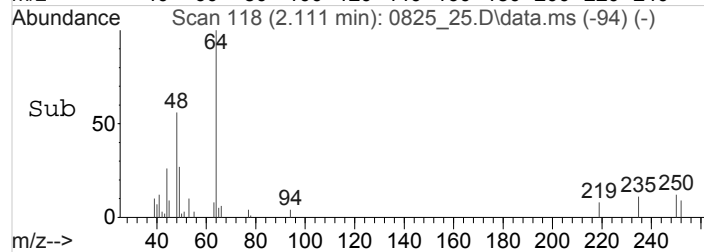




#9
BROMOMETHANE
Concen: Below Cal
RT: 2.111 min Scan# 118
Delta R.T. 0.000 min
Lab File: 0825_25.D
Acq: 25 Aug 2020 8:15 am



Tgt Ion: 94 Resp: 208
Ion Ratio Lower Upper
94 100
96 0.0 78.4 117.6#
93 0.0 17.7 26.5#



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-12S

Lab Sample ID: L1253450-11
Client Sample ID: MW-12S
Lab File ID: 0825_26
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/19/20 10:20
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 08:35
Analysis Date/Time: 08/25/20 08:35
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND	J4	0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253450-11
Client Sample ID: MW-12S
Lab File ID: 0825_26
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/19/20 10:20
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 08:35
Analysis Date/Time: 08/25/20 08:35
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND	J4	0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	5.60	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_26.D
 Acq On : 25 Aug 2020 8:35 am
 Operator : 808
 Sample : L1253450-11 1x WG1531654
 Misc : water
 ALS Vial : 26 Sample Multiplier: 1
 InstName : VOCMS7

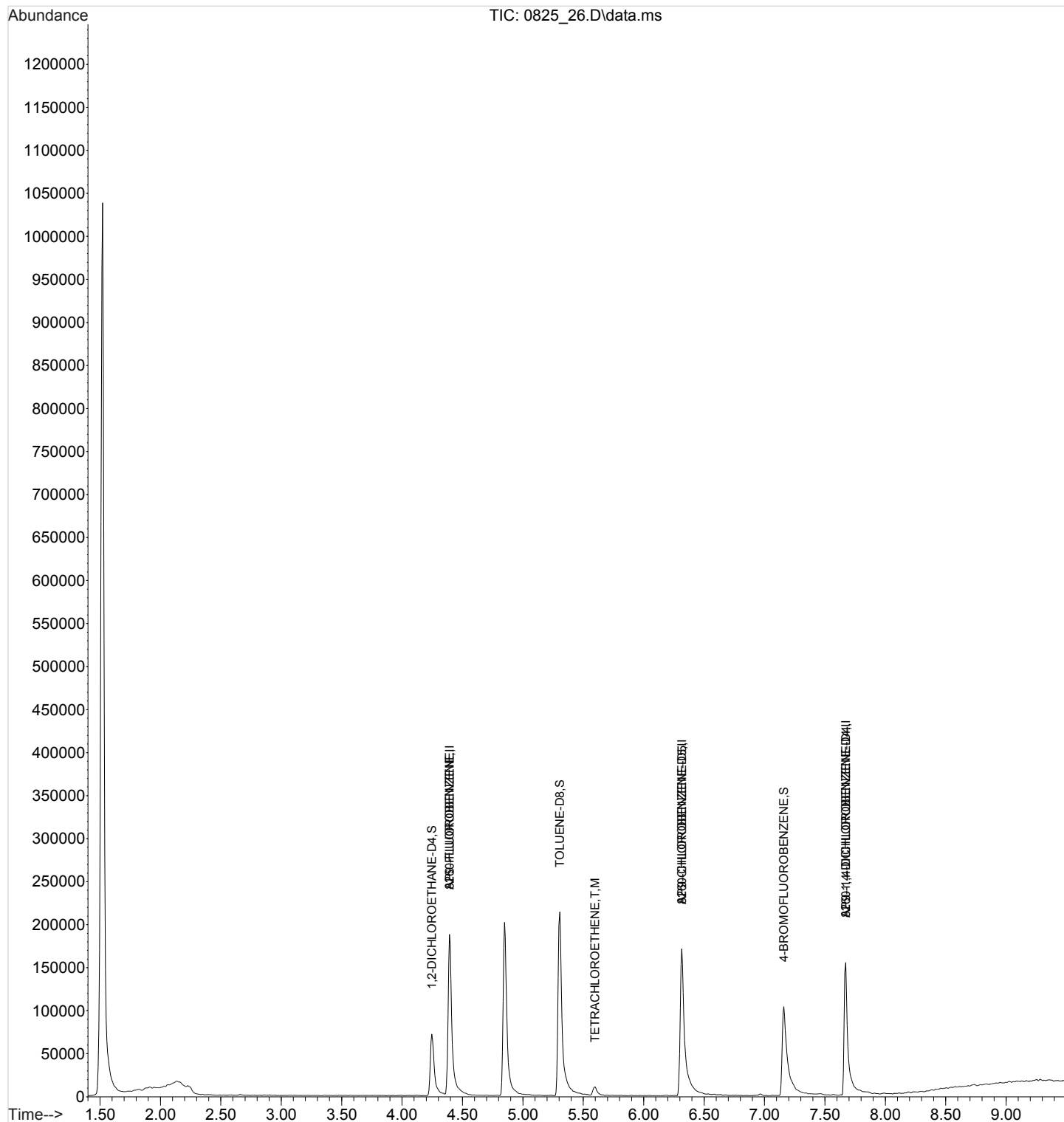
Quant Time: Aug 25 11:01:25 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

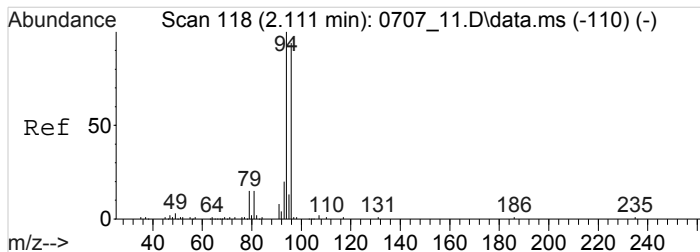
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	195033	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.315	82	71715	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.672	152	65966	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.393	96	193304	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.315	82	71715	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.672	152	65966	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.247	65	60480	15.9350248	ppb	0.00
Spiked Amount 16.000			Recovery	=	99.59%	
61) TOLUENE-D8	5.305	98	198878	17.0234548	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	106.40%	
80) 4-BROMOFLUOROBENZENE	7.161	95	65255	15.9448102	ppb	0.01
Spiked Amount 16.000	Range	80 - 120	Recovery	=	99.66%	
Target Compounds						
9) BROMOMETHANE	2.117	94	286	Below Cal	Qvalue # 87	
65) TETRACHLOROETHENE	5.597	164	3109	0.8228338	ppb	87

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

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_26.D
Acq On : 25 Aug 2020 8:35 am
Operator : 808
Sample : L1253450-11 1x WG1531654
Misc : water
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS7

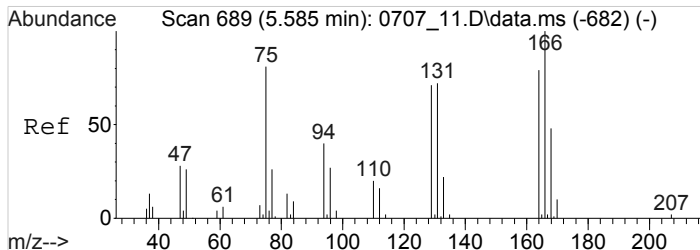
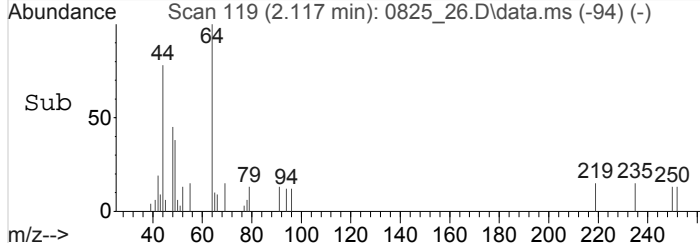
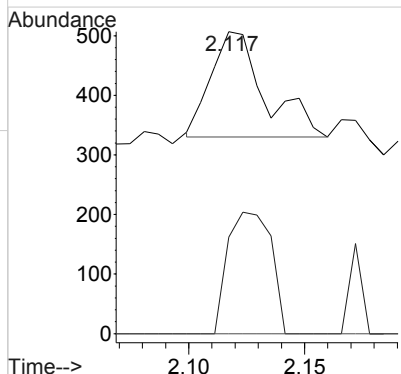
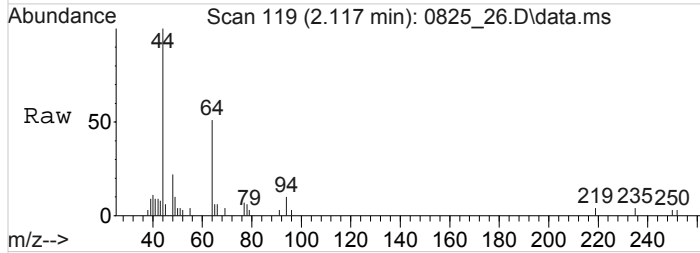
Quant Time: Aug 25 11:01:25 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration





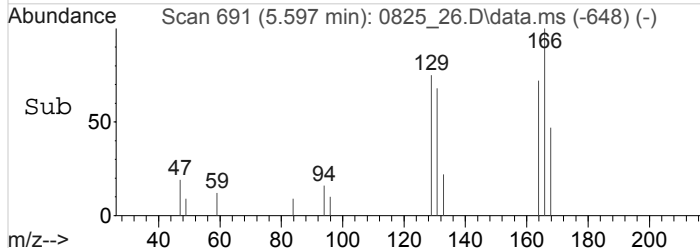
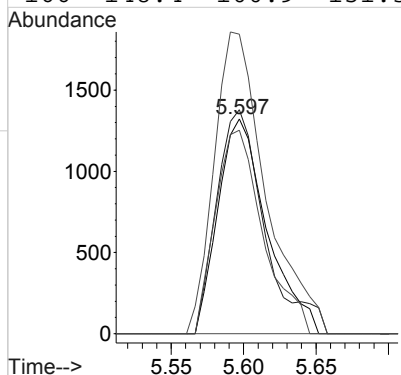
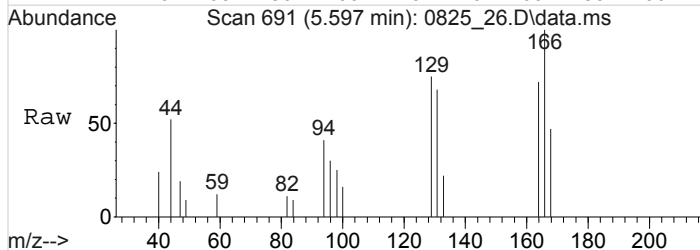
#9
BROMOMETHANE
Concen: Below Cal
RT: 2.117 min Scan# 119
Delta R.T. 0.006 min
Lab File: 0825_26.D
Acq: 25 Aug 2020 8:35 am

Tgt Ion: 94 Resp: 286
Ion Ratio Lower Upper
94 100
96 93.0 78.4 117.6
93 0.0 17.7 26.5#



#65
TETRACHLOROETHENE
Concen: 0.8228338 ppb
RT: 5.597 min Scan# 691
Delta R.T. 0.012 min
Lab File: 0825_26.D
Acq: 25 Aug 2020 8:35 am

Tgt Ion: 164 Resp: 3109
Ion Ratio Lower Upper
164 100
129 102.2 72.2 108.2
131 92.3 71.4 107.2
166 148.4 100.9 151.3



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-121

Lab Sample ID: L1253450-12
Client Sample ID: MW-121
Lab File ID: 0825_27
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/19/20 11:16
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 08:55
Analysis Date/Time: 08/25/20 08:55
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND		0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND	J4	0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

Lab Sample ID:

Client Sample ID:

Lab File ID:

Instrument ID:

Analytical Batch:

Dilution Factor:

Analytical Method:

Matrix:

Total Solids (%):

L1253450-12

MW-12I

0825_27

VOCMS7

WG1531654

1

8260B

GW

SDG:

Collected Date/Time:

Received Date/Time:

Preparation Date/Time:

Analysis Date/Time:

Prep Method:

Sample Vol Used:

Initial Wt/Vol:

Final Wt/Vol:

L1253450

08/19/20 11:16

08/21/20 09:31

08/25/20 08:55

08/25/20 08:55

8260B

5 mL

5 mL

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			mg/l		mg/l	mg/l
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND	J4	0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_27.D
 Acq On : 25 Aug 2020 8:55 am
 Operator : 808
 Sample : L1253450-12 1x WG1531654
 Misc : water
 ALS Vial : 27 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 11:01:45 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

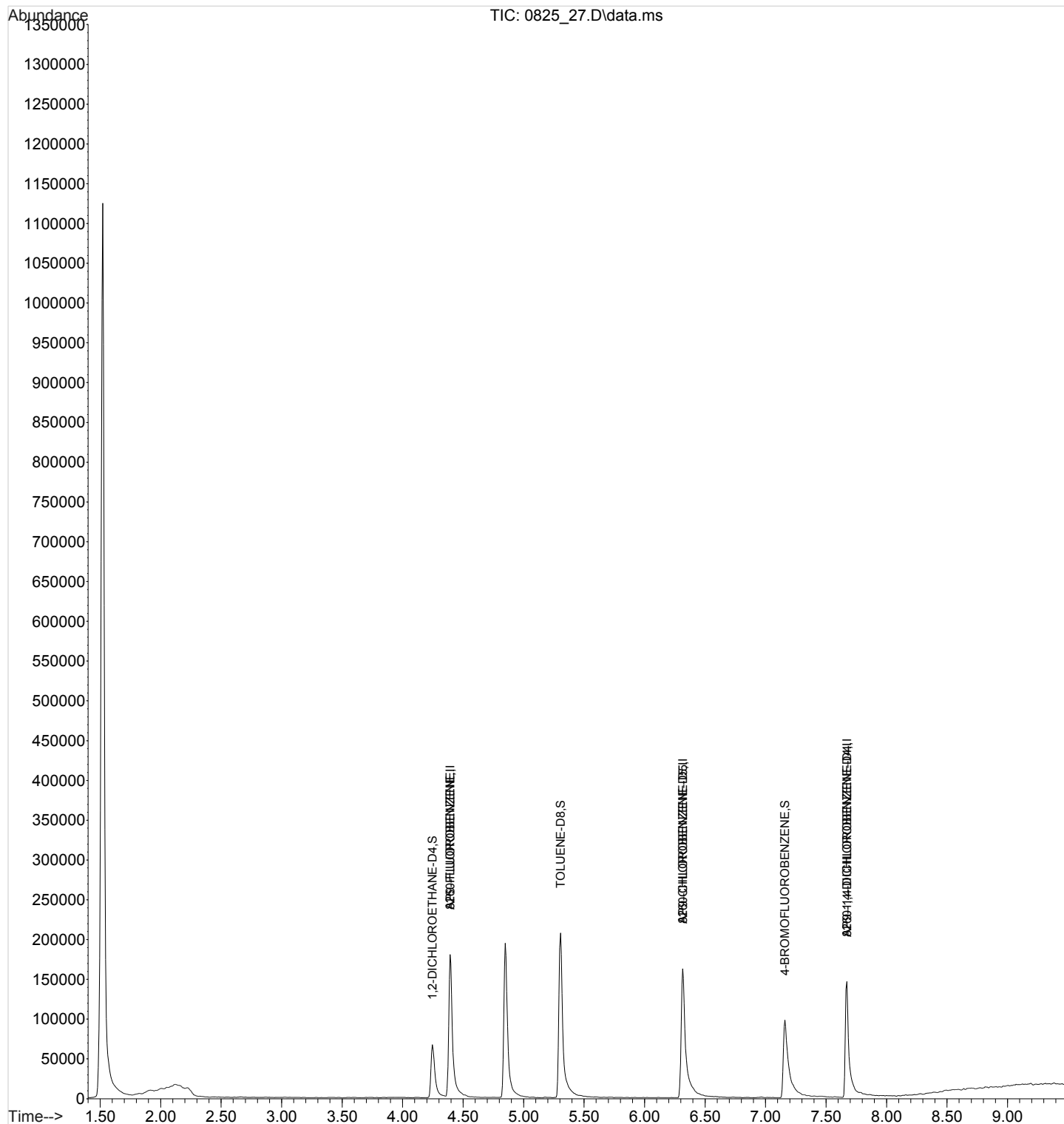
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	188295	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.315	82	69126	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.672	152	62562	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.393	96	186675	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.315	82	69126	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.672	152	62562	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.247	65	58080	15.8502779	ppb	0.00
Spiked Amount	16.000		Recovery	=	99.06%	
61) TOLUENE-D8	5.305	98	191238	16.9825822	ppb	0.00
Spiked Amount	16.000	Range	90 - 115	Recovery	=	106.14%
80) 4-BROMOFLUOROBENZENE	7.161	95	62765	15.9107873	ppb	0.01
Spiked Amount	16.000	Range	80 - 120	Recovery	=	99.44%

Target Compounds Qvalue

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

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_27.D
Acq On : 25 Aug 2020 8:55 am
Operator : 808
Sample : L1253450-12 1x WG1531654
Misc : water
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Aug 25 11:01:45 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-17S

Lab Sample ID: L1253450-13
Client Sample ID: MW-17S
Lab File ID: 0825_18
Instrument ID: VOCMS26
Analytical Batch: WG1531771
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/19/20 12:32
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 13:51
Analysis Date/Time: 08/25/20 13:51
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	3.19	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND	J4	0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253450-13
Client Sample ID: MW-17S
Lab File ID: 0825_18
Instrument ID: VOCMS26
Analytical Batch: WG1531771
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/19/20 12:32
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 13:51
Analysis Date/Time: 08/25/20 13:51
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 18.D
 Acq On : 25 Aug 2020 1:51 pm
 Operator : 808
 Sample : L1253450-13 1x WG1531771
 Misc : soil
 ALS Vial : 18 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 26 17:07:31 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

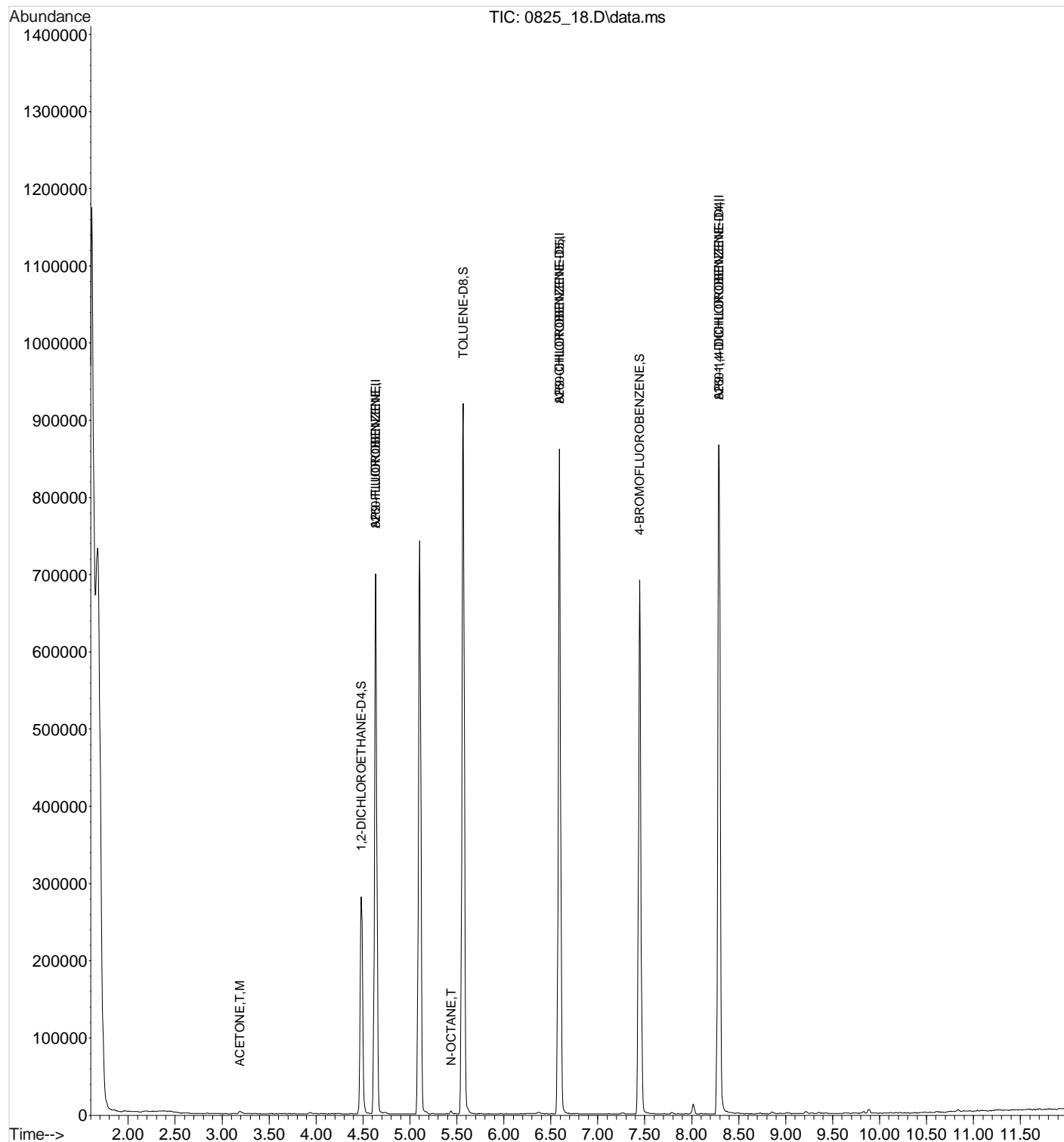
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

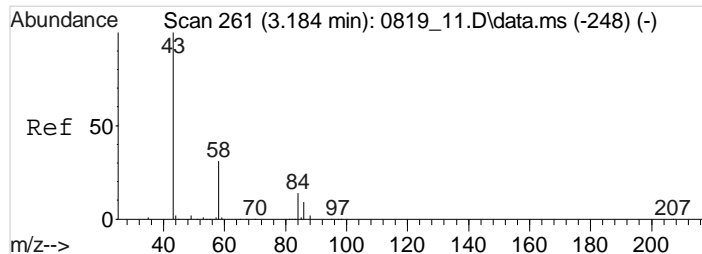
Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	600556	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	269530	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.293	152	273800	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.635	96	600556	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.592	82	269530	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	8.293	152	273800	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.483	65	187409	16.1707154	ppb	0.00
Spiked Amount 16.000			Recovery	=	101.07%	
61) TOLUENE-D8	5.568	98	630044	16.0221109	ppb	0.00
Spiked Amount 16.000	Range	89 - 115	Recovery	=	100.14%	
80) 4-BROMOFLUOROBENZENE	7.446	95	250903	16.5311890	ppb	0.00
Spiked Amount 16.000	Range	70 - 129	Recovery	=	103.32%	
Target Compounds						
13) DICHLOROFLUOROMETHANE	2.520	67	348	Below Cal	Qvalue # 43	
19) ACETONE	3.190	43	5532	0.2012342	ppb #	85
122) N-OCTANE	5.440	85	506	0.1666384	ppb #	75

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

Data Path : C:\msdchem\1\data\082520\
Data File : 0825 18.D
Acq On : 25 Aug 2020 1:51 pm
Operator : 808
Sample : L1253450-13 1x WG1531771
Misc : soil
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS26

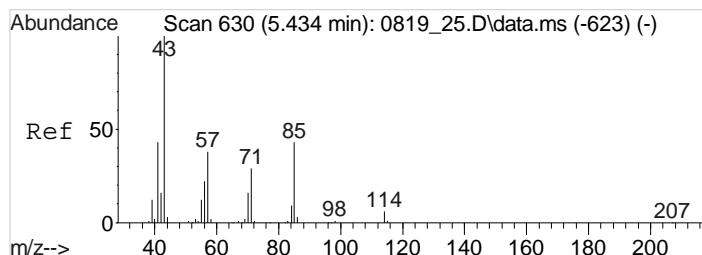
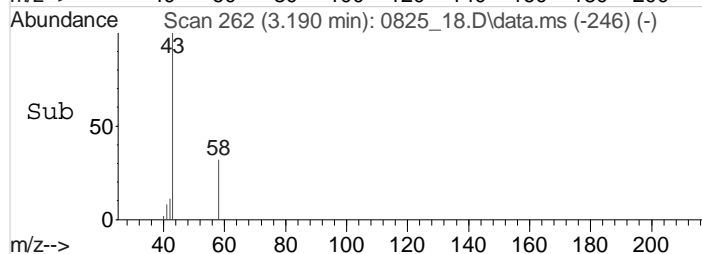
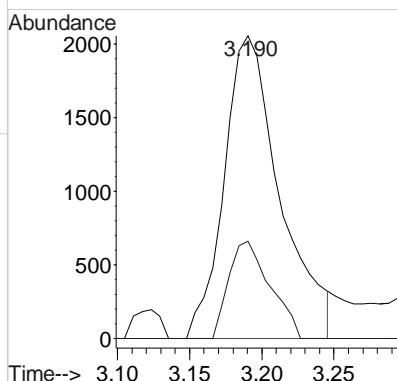
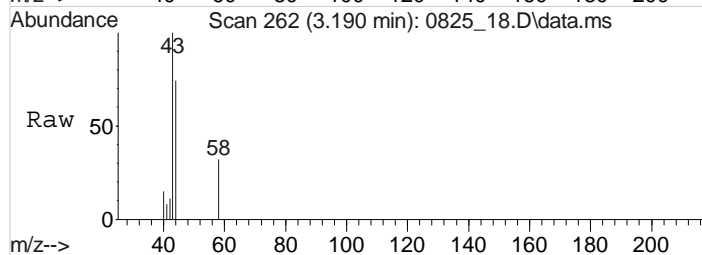
Quant Time: Aug 26 17:07:31 2020
Quant Method : C:\msdchem\1\methods\V826H21T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 09:38:52 2020
Response via : Initial Calibration





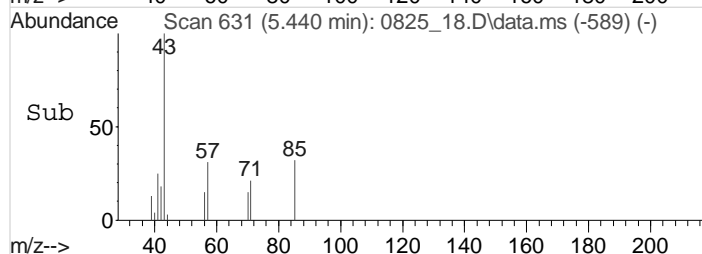
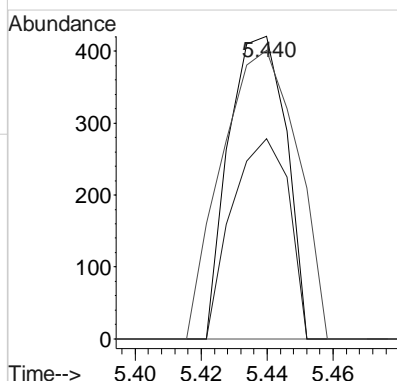
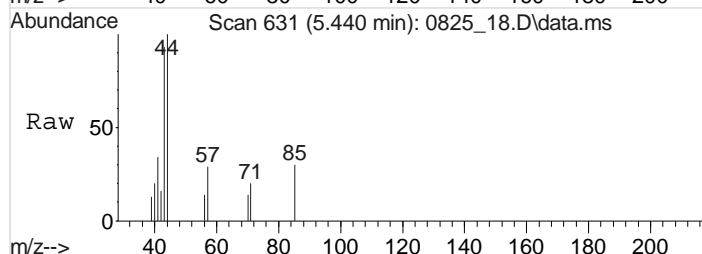
#19
 ACETONE
 Concen: 0.2012342 ppb
 RT: 3.190 min Scan# 262
 Delta R.T. 0.006 min
 Lab File: 0825_18.D
 Acq: 25 Aug 2020 1:51 pm

Tgt Ion: 43 Resp: 5532
 Ion Ratio Lower Upper
 43 100
 58 23.9 26.0 39.0#



#122
 N-OCTANE
 Concen: 0.1666384 ppb
 RT: 5.440 min Scan# 631
 Delta R.T. 0.006 min
 Lab File: 0825_18.D
 Acq: 25 Aug 2020 1:51 pm

Tgt Ion: 85 Resp: 506
 Ion Ratio Lower Upper
 85 100
 71 65.8 55.2 82.8
 57 126.5 70.0 105.0#



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253450-14
Client Sample ID: MW-171
Lab File ID: 0825_19
Instrument ID: VOCMS26
Analytical Batch: WG1531771
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/19/20 13:05
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 14:12
Analysis Date/Time: 08/25/20 14:12
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND	J4	0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253450-14
Client Sample ID: MW-17I
Lab File ID: 0825_19
Instrument ID: VOCMS26
Analytical Batch: WG1531771
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/19/20 13:05
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 14:12
Analysis Date/Time: 08/25/20 14:12
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 19.D
 Acq On : 25 Aug 2020 2:12 pm
 Operator : 808
 Sample : L1253450-14 1x WG1531771
 Misc : soil
 ALS Vial : 19 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 26 17:08:13 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

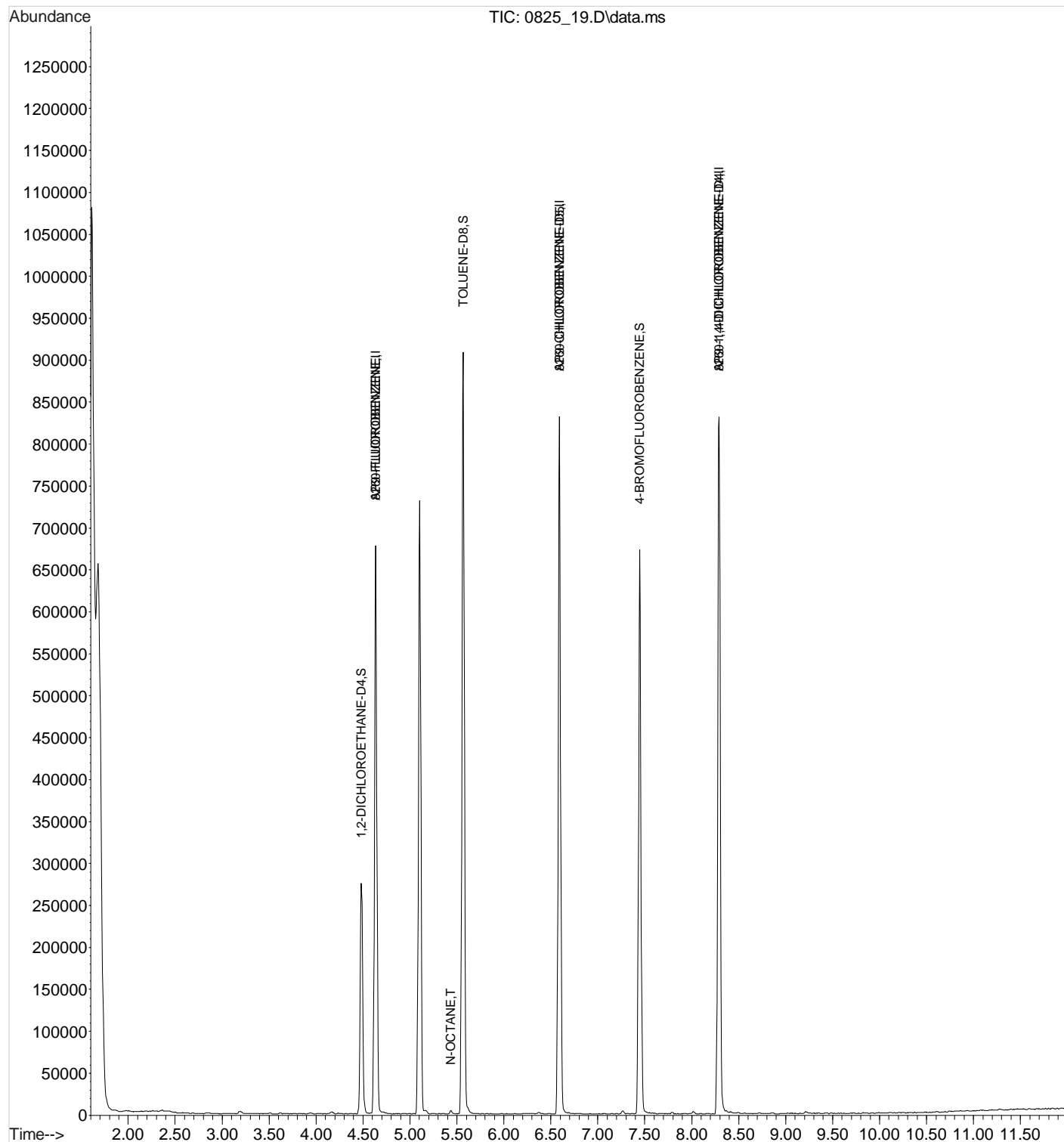
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

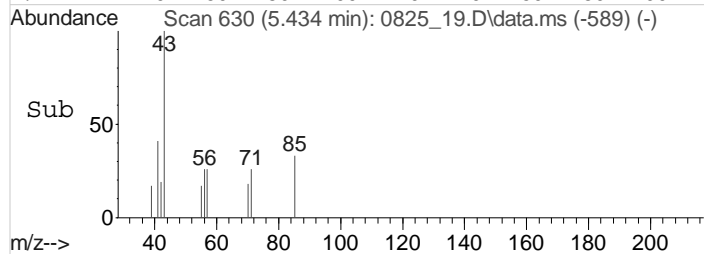
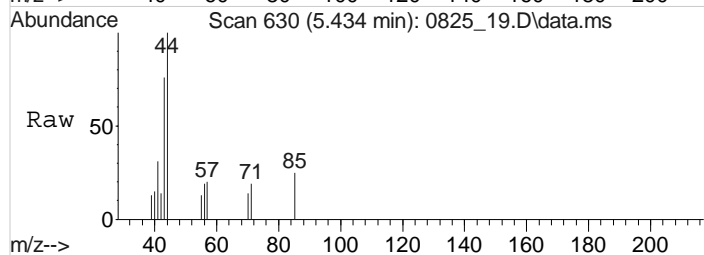
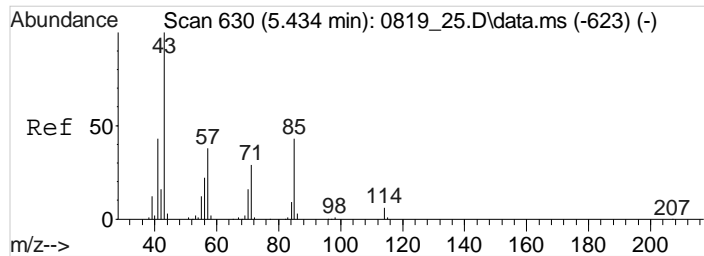
Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	582169	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	263872	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.293	152	264830	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.635	96	582169	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.592	82	263872	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	8.293	152	264830	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.483	65	182103	16.2091531	ppb	0.00
Spiked Amount 16.000			Recovery	=	101.31%	
61) TOLUENE-D8	5.568	98	613504	15.9360269	ppb	0.00
Spiked Amount 16.000	Range	89 - 115	Recovery	=	99.60%	
80) 4-BROMOFLUOROBENZENE	7.445	95	242786	16.3393840	ppb	0.00
Spiked Amount 16.000	Range	70 - 129	Recovery	=	102.12%	
Target Compounds						
13) DICHLOROFLUOROMETHANE	2.526	67	517	Below Cal	#	43
19) ACETONE	3.190	43	4555	Below Cal	#	87
32) DI-ISOPROPYL ETHER	3.507	45	573	Below Cal	#	71
122) N-OCTANE	5.434	85	586	0.1990795	ppb	92

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

Data Path : C:\msdchem\1\data\082520\
Data File : 0825 19.D
Acq On : 25 Aug 2020 2:12 pm
Operator : 808
Sample : L1253450-14 1x WG1531771
Misc : soil
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS26

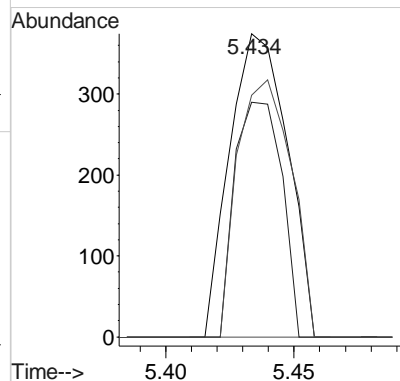
Quant Time: Aug 26 17:08:13 2020
Quant Method : C:\msdchem\1\methods\V826H21T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 09:38:52 2020
Response via : Initial Calibration





#122
N-OCTANE
Concen: 0.1990795 ppb
RT: 5.434 min Scan# 630
Delta R.T. -0.000 min
Lab File: 0825 19.D
Acq: 25 Aug 2020 2:12 pm

Tgt Ion	Ratio	Lower	Upper
85	100		
71	63.0	55.2	82.8
57	79.0	70.0	105.0



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-14S

Lab Sample ID: L1253450-15
Client Sample ID: MW-14S
Lab File ID: 0825_20
Instrument ID: VOCMS26
Analytical Batch: WG1531771
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/19/20 14:52
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 14:32
Analysis Date/Time: 08/25/20 14:32
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	3.19	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND	J4	0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	4.06	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	4.24	ND		0.00119	0.0100

Lab Sample ID:

Client Sample ID:

Lab File ID:

Instrument ID:

Analytical Batch:

Dilution Factor:

Analytical Method:

Matrix:

Total Solids (%):

L1253450-15

MW-14S

0825_20

VOCMS26

WG1531771

1

8260B

GW

SDG:

Collected Date/Time:

Received Date/Time:

Preparation Date/Time:

Analysis Date/Time:

Prep Method:

Sample Vol Used:

Initial Wt/Vol:

Final Wt/Vol:

L1253450

08/19/20 14:52

08/21/20 09:31

08/25/20 14:32

08/25/20 14:32

8260B

5 mL

5 mL

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			mg/l		mg/l	mg/l
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 20.D
 Acq On : 25 Aug 2020 2:32 pm
 Operator : 808
 Sample : L1253450-15 1x WG1531771
 Misc : soil
 ALS Vial : 20 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 26 17:08:53 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

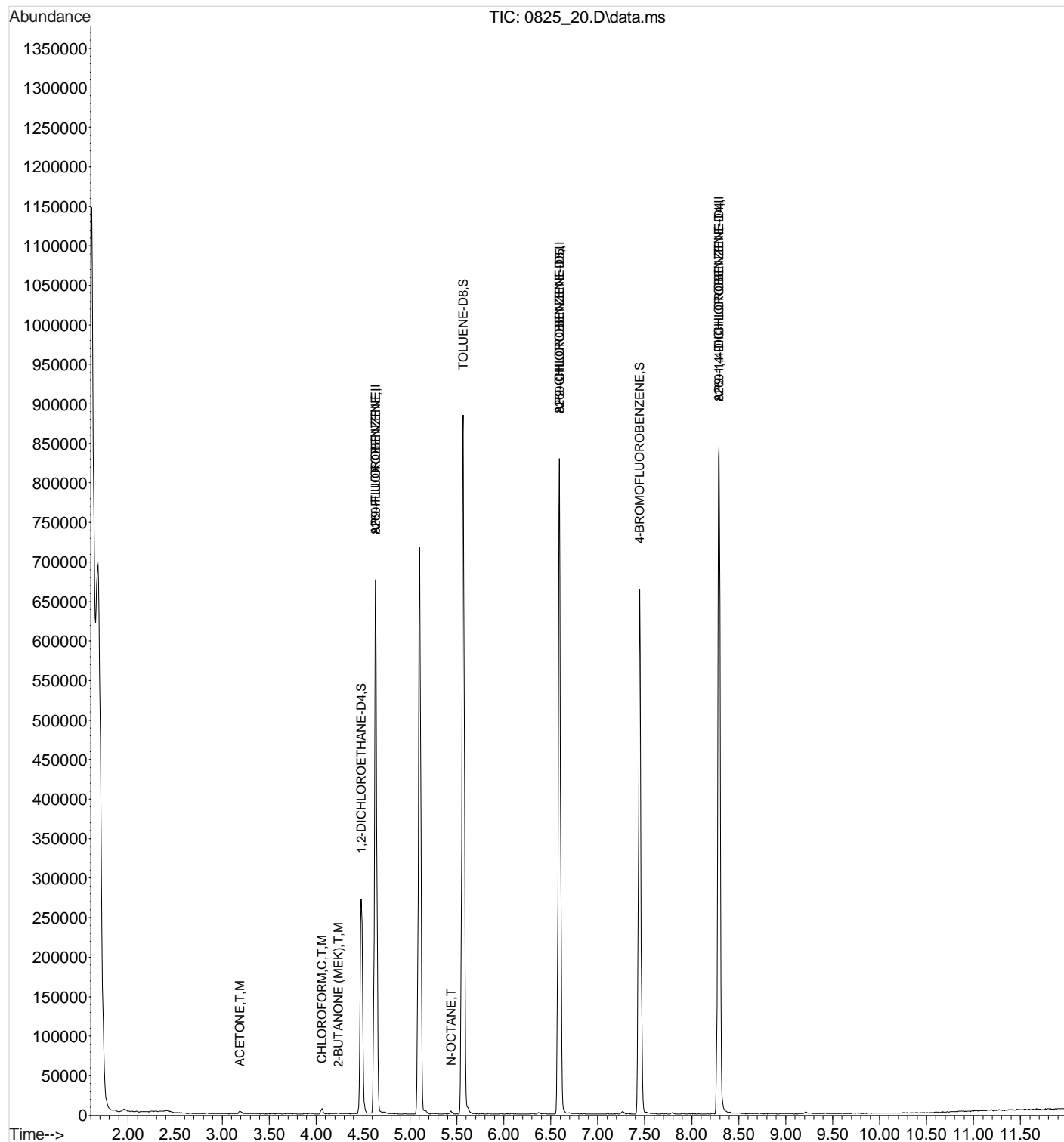
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

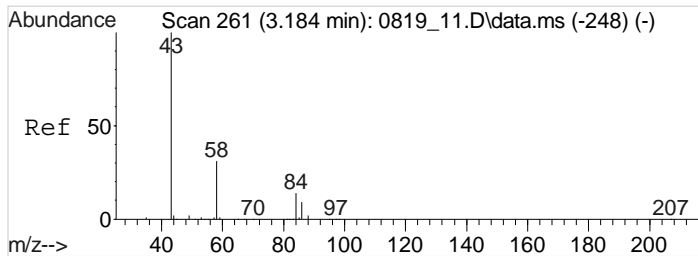
Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	587198	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	260630	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.293	152	266548	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.635	96	587198	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.592	82	260630	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	8.293	152	266548	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.483	65	180491	15.9280747	ppb	0.00
Spiked Amount 16.000			Recovery	=	99.55%	
61) TOLUENE-D8	5.568	98	609360	16.0252754	ppb	0.00
Spiked Amount 16.000	Range	89 - 115	Recovery	=	100.16%	
80) 4-BROMOFLUOROBENZENE	7.445	95	240145	16.3626821	ppb	0.00
Spiked Amount 16.000	Range	70 - 129	Recovery	=	102.27%	
Target Compounds						Qvalue
19) ACETONE	3.190	43	5412	0.2020745	ppb #	85
36) 2-BUTANONE (MEK)	4.239	43	2267	0.3430726	ppb #	72
39) CHLOROFORM	4.062	83	5087	0.2593880	ppb	93
122) N-OCTANE	5.440	85	561	0.1889541	ppb #	69

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

Data Path : C:\msdchem\1\data\082520\
Data File : 0825 20.D
Acq On : 25 Aug 2020 2:32 pm
Operator : 808
Sample : L1253450-15 1x WG1531771
Misc : soil
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS26

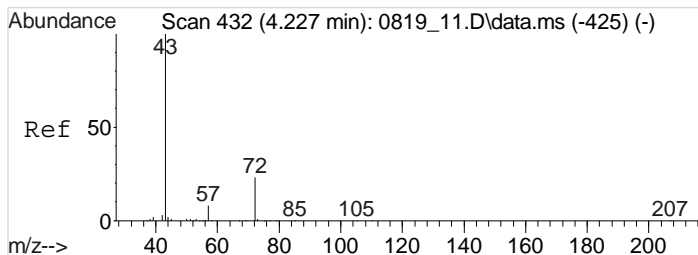
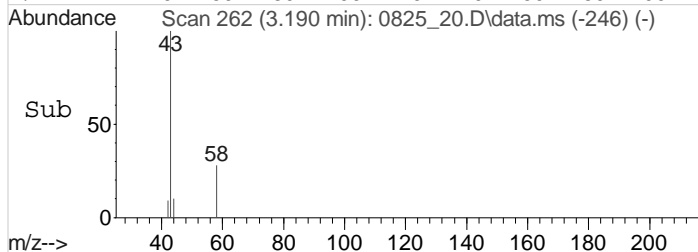
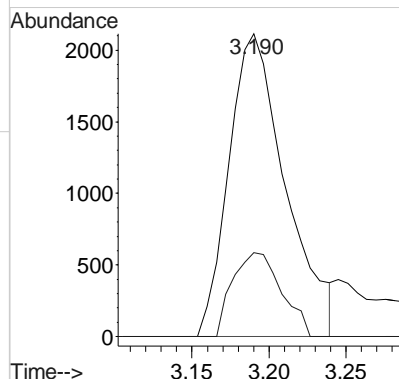
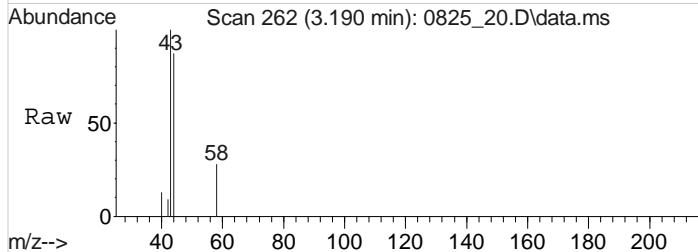
Quant Time: Aug 26 17:08:53 2020
Quant Method : C:\msdchem\1\methods\V826H21T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 09:38:52 2020
Response via : Initial Calibration





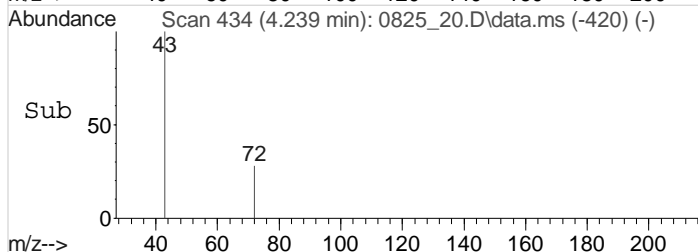
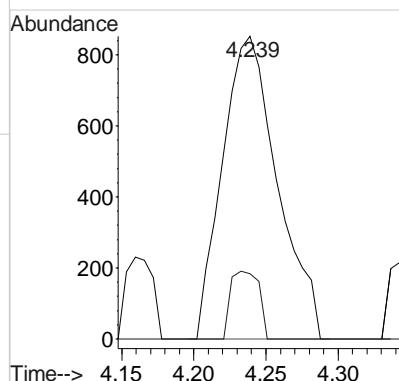
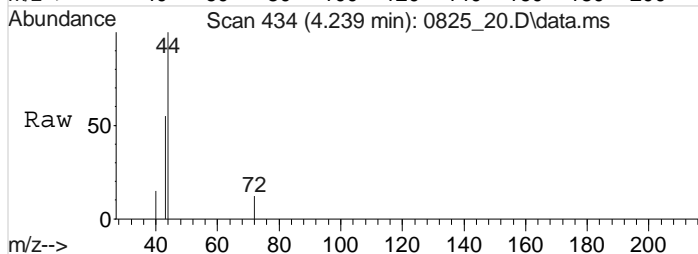
#19
ACETONE
Concen: 0.2020745 ppb
RT: 3.190 min Scan# 262
Delta R.T. 0.006 min
Lab File: 0825_20.D
Acq: 25 Aug 2020 2:32 pm

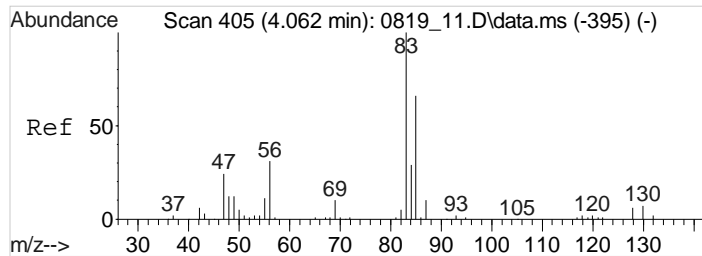
Tgt Ion: 43 Resp: 5412
Ion Ratio Lower Upper
43 100
58 23.9 26.0 39.0#



#36
2-BUTANONE (MEK)
Concen: 0.3430726 ppb
RT: 4.239 min Scan# 434
Delta R.T. 0.012 min
Lab File: 0825_20.D
Acq: 25 Aug 2020 2:32 pm

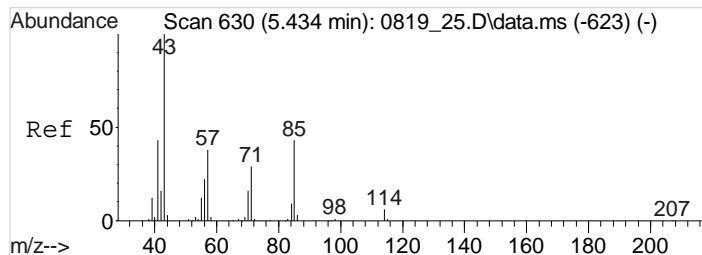
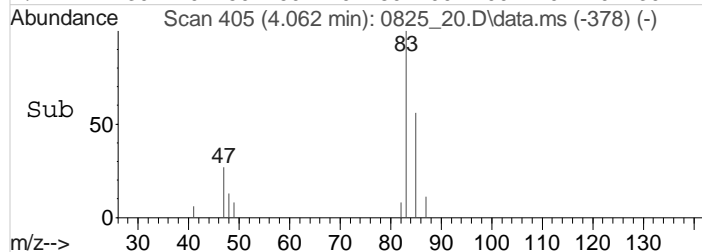
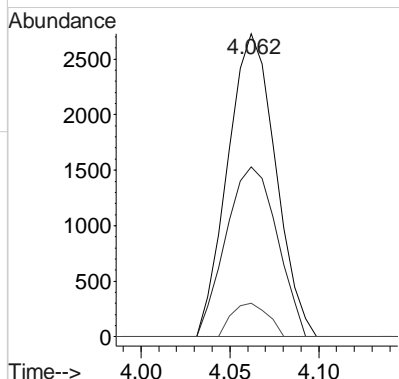
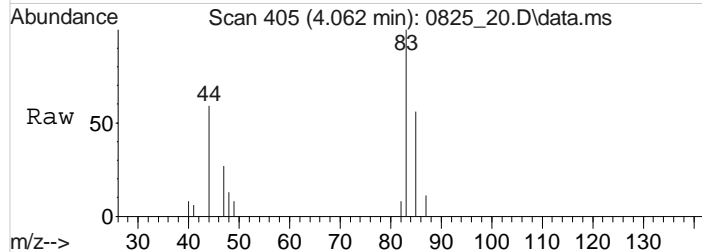
Tgt Ion: 43 Resp: 2267
Ion Ratio Lower Upper
43 100
72 11.5 20.5 30.7#





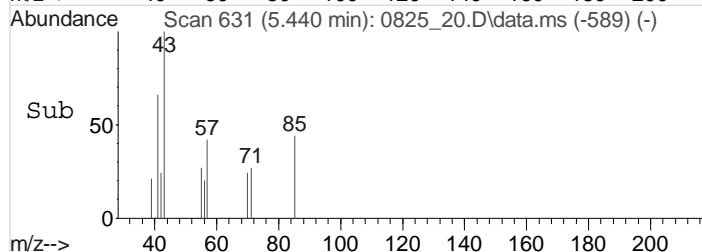
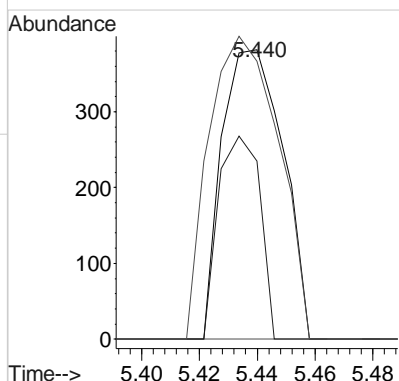
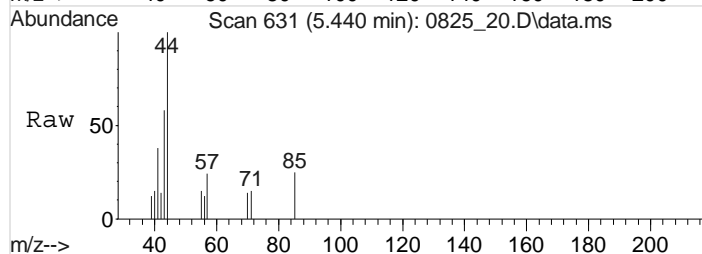
#39
CHLOROFORM
Concen: 0.2593880 ppb
RT: 4.062 min Scan# 405
Delta R.T. 0.000 min
Lab File: 0825_20.D
Acq: 25 Aug 2020 2:32 pm

Tgt Ion: 83 Resp: 5087
Ion Ratio Lower Upper
83 100
85 60.0 52.8 79.2
87 8.4 7.8 11.8



#122
N-OCTANE
Concen: 0.1889541 ppb
RT: 5.440 min Scan# 631
Delta R.T. 0.006 min
Lab File: 0825_20.D
Acq: 25 Aug 2020 2:32 pm

Tgt Ion: 85 Resp: 561
Ion Ratio Lower Upper
85 100
71 47.4 55.2 82.8#
57 119.4 70.0 105.0#





1A-OR

SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

MW-161

Lab Sample ID: L1253450-16
Client Sample ID: MW-161
Lab File ID: 0825_21
Instrument ID: VOCMS26
Analytical Batch: WG1531771
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/19/20 15:57
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 14:52
Analysis Date/Time: 08/25/20 14:52
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND	J4	0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

Lab Sample ID:	L1253450-16	SDG:	L1253450
Client Sample ID:	MW-16I	Collected Date/Time:	08/19/20 15:57
Lab File ID:	0825_21	Received Date/Time:	08/21/20 09:31
Instrument ID:	VOCMS26	Preparation Date/Time:	08/25/20 14:52
Analytical Batch:	WG1531771	Analysis Date/Time:	08/25/20 14:52
Dilution Factor:	1	Prep Method:	8260B
Analytical Method:	8260B	Sample Vol Used:	5 mL
Matrix:	GW	Initial Wt/Vol:	
Total Solids (%):		Final Wt/Vol:	5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	2.03	0.00125		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 21.D
 Acq On : 25 Aug 2020 2:52 pm
 Operator : 808
 Sample : L1253450-16 1x WG1531771
 Misc : soil
 ALS Vial : 21 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 26 17:09:26 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

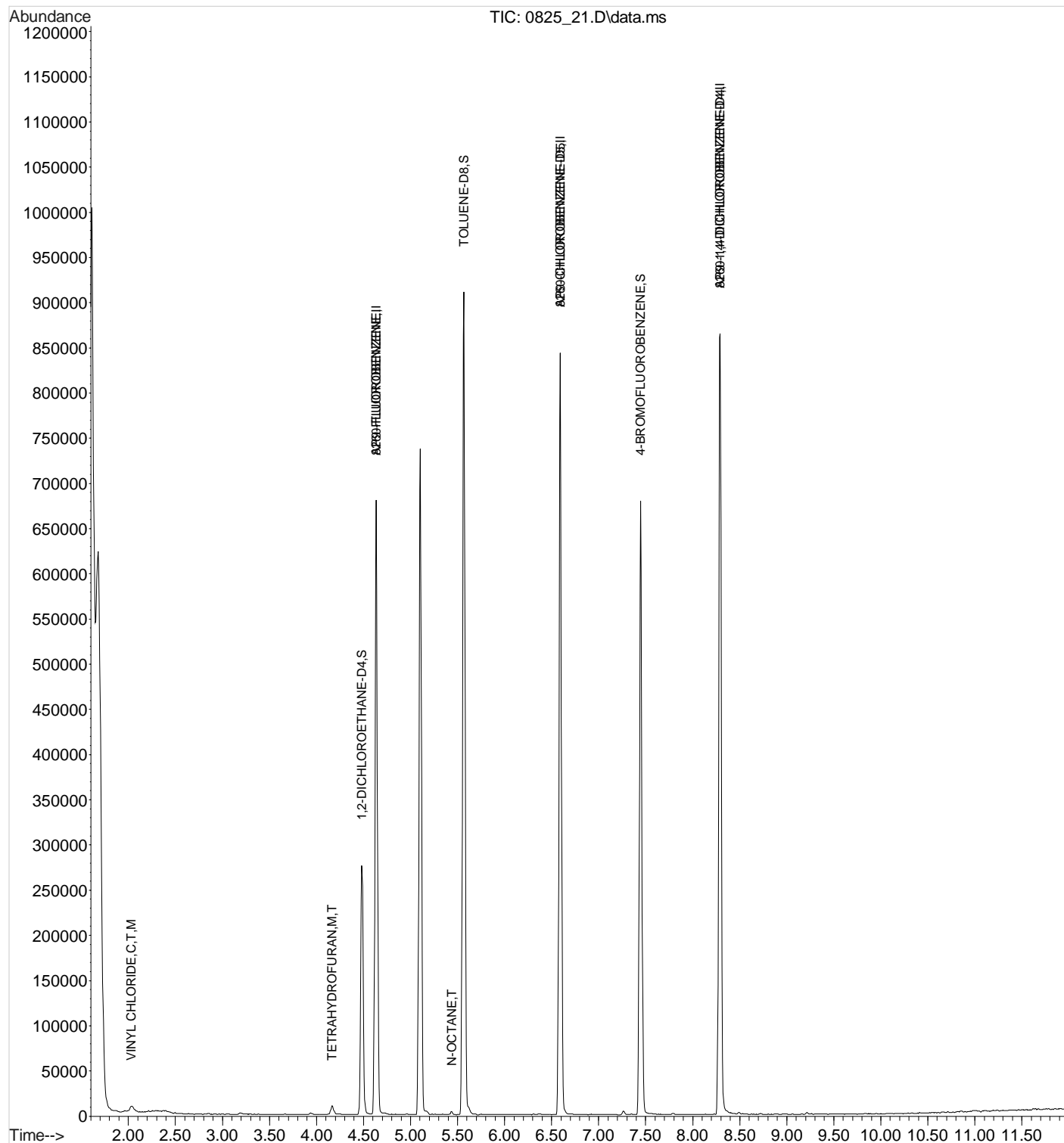
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

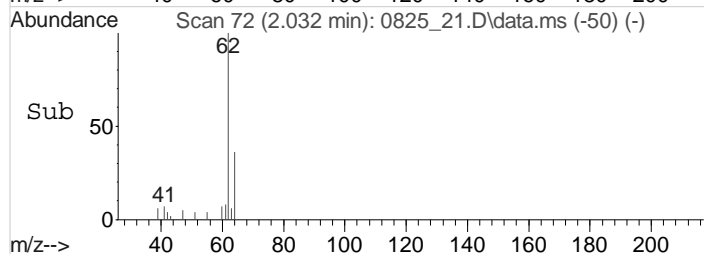
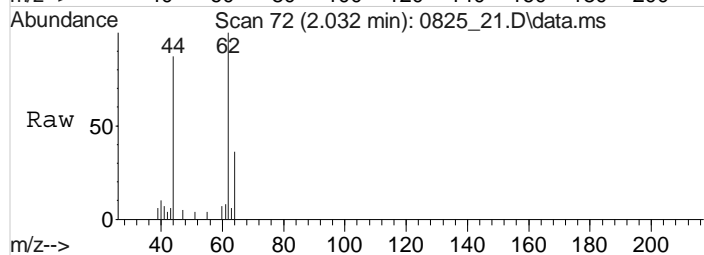
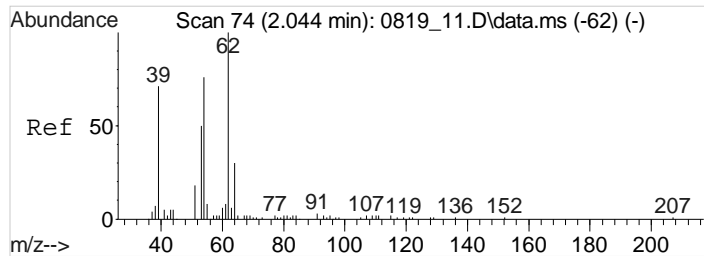
Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	585475	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	265808	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.293	152	273049	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.635	96	585475	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.592	82	265808	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	8.293	152	273049	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.483	65	183719	16.2606544	ppb	0.00
Spiked Amount 16.000			Recovery	=	101.63%	
61) TOLUENE-D8	5.568	98	621186	16.0180475	ppb	0.00
Spiked Amount 16.000	Range	89 - 115	Recovery	=	100.11%	
80) 4-BROMOFLUOROBENZENE	7.445	95	243939	16.2974081	ppb	0.00
Spiked Amount 16.000	Range	70 - 129	Recovery	=	101.86%	
Target Compounds						
7) VINYL CHLORIDE	2.032	62	13340	1.2465189	ppb #	95
19) ACETONE	3.190	43	3007	Below Cal	#	85
38) TETRAHYDROFURAN	4.166	42	7331	1.6389117	ppb #	95
122) N-OCTANE	5.440	85	426	0.1439061	ppb #	65

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

Data Path : C:\msdchem\1\data\082520\
Data File : 0825 21.D
Acq On : 25 Aug 2020 2:52 pm
Operator : 808
Sample : L1253450-16 1x WG1531771
Misc : soil
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS26

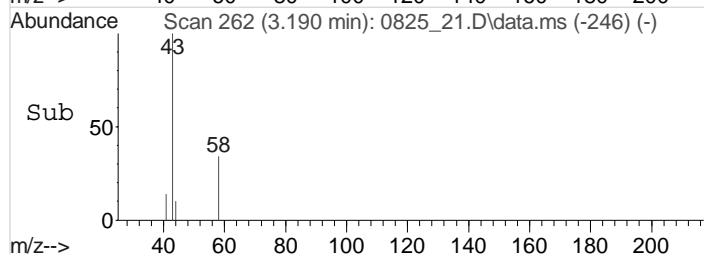
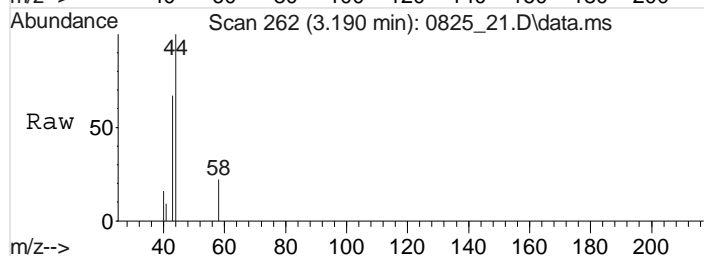
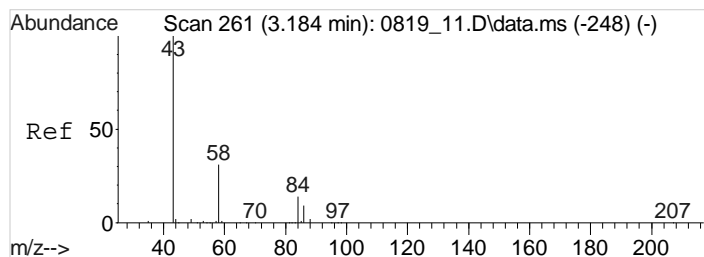
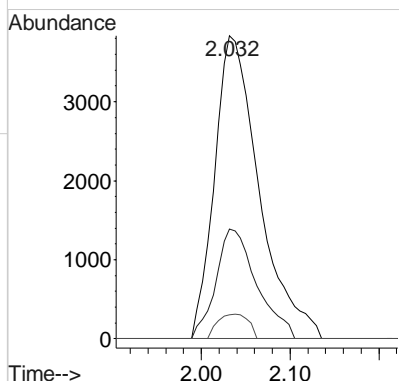
Quant Time: Aug 26 17:09:26 2020
Quant Method : C:\msdchem\1\methods\V826H21T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 09:38:52 2020
Response via : Initial Calibration





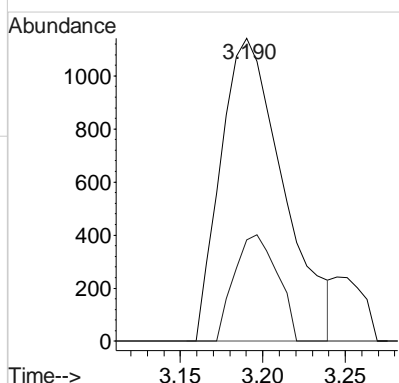
#7
VINYL CHLORIDE
Concen: 1.2465189 ppb
RT: 2.032 min Scan# 72
Delta R.T. -0.012 min
Lab File: 0825_21.D
Acq: 25 Aug 2020 2:52 pm

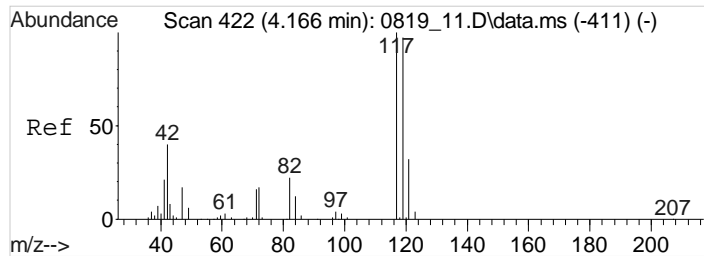
Tgt Ion: 62 Resp: 13340
Ion Ratio Lower Upper
62 100
64 33.2 24.7 37.1
61 5.6 6.8 10.2#



#19
ACETONE
Concen: Below Cal
RT: 3.190 min Scan# 262
Delta R.T. 0.006 min
Lab File: 0825_21.D
Acq: 25 Aug 2020 2:52 pm

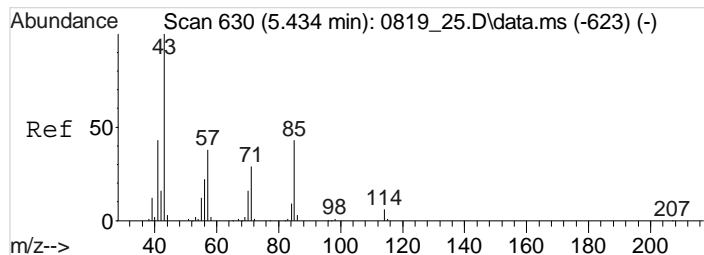
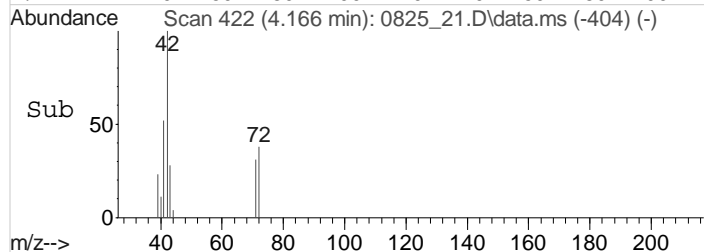
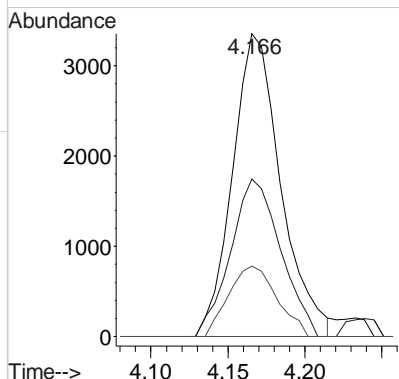
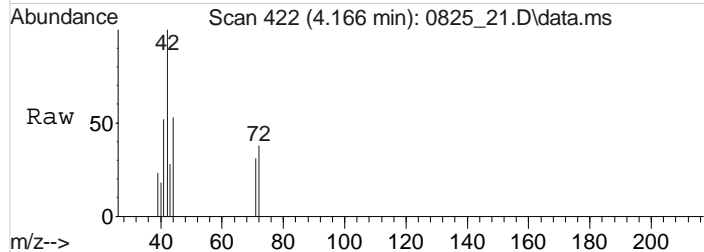
Tgt Ion: 43 Resp: 3007
Ion Ratio Lower Upper
43 100
58 24.3 26.0 39.0#





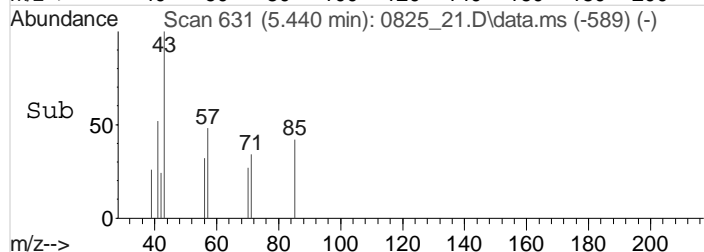
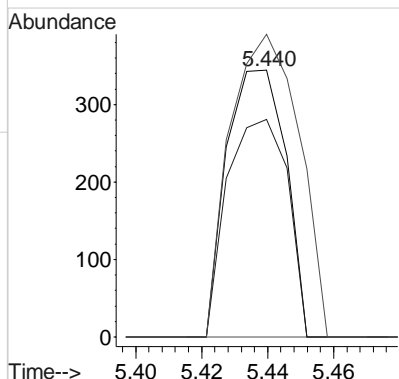
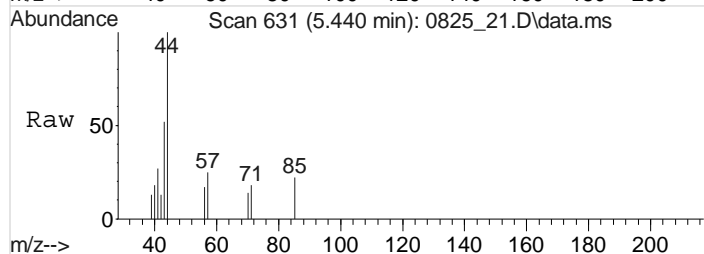
#38
TETRAHYDROFURAN
Concen: 1.6389117 ppb
RT: 4.166 min Scan# 422
Delta R.T. 0.001 min
Lab File: 0825_21.D
Acq: 25 Aug 2020 2:52 pm

Tgt Ion: 42 Resp: 7331
Ion Ratio Lower Upper
42 100
41 53.9 45.3 67.9
39 23.3 15.0 22.6#



#122
N-OCTANE
Concen: 0.1439061 ppb
RT: 5.440 min Scan# 631
Delta R.T. 0.006 min
Lab File: 0825_21.D
Acq: 25 Aug 2020 2:52 pm

Tgt Ion: 85 Resp: 426
Ion Ratio Lower Upper
85 100
71 83.6 55.2 82.8#
57 133.1 70.0 105.0#



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEETSAMPLE NO.:
TRIP BLANK

Lab Sample ID: L1253450-17
Client Sample ID: TRIP BLANK
Lab File ID: 0825_07
Instrument ID: VOCMS26
Analytical Batch: WG1531771
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/19/20 00:00
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 10:08
Analysis Date/Time: 08/25/20 10:08
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	3.19	ND		0.0113	0.0500
Acrolein	107-02-8	0	ND	J4	0.00254	0.0500
Acrylonitrile	107-13-1	0	ND		0.000671	0.0100
Benzene	71-43-2	0	ND		0.0000941	0.00100
Bromobenzene	108-86-1	0	ND		0.000118	0.00100
Bromodichloromethane	75-27-4	0	ND		0.000136	0.00100
Bromoform	75-25-2	0	ND		0.000129	0.00100
Bromomethane	74-83-9	0	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	0	ND		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	ND		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	ND		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	ND		0.000128	0.00100
Chlorobenzene	108-90-7	0	ND		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	ND		0.000140	0.00100
Chloroethane	75-00-3	0	ND		0.000192	0.00500
Chloroform	67-66-3	0	ND		0.000111	0.00500
Chloromethane	74-87-3	0	ND		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	ND		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	ND		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	ND		0.000126	0.00100
Dibromomethane	74-95-3	0	ND		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	ND		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	ND		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	ND		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	ND		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	ND		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	ND		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	ND		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	ND		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	ND		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	ND		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	ND		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	ND		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	ND		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	ND		0.000105	0.00100
Ethylbenzene	100-41-4	0	ND		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.000337	0.00100
Isopropylbenzene	98-82-8	0	ND		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	ND		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	ND		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: L1253450-17
Client Sample ID: TRIP BLANK
Lab File ID: 0825_07
Instrument ID: VOCMS26
Analytical Batch: WG1531771
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/19/20 00:00
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 10:08
Analysis Date/Time: 08/25/20 10:08
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	ND		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	ND		0.000101	0.00100
Naphthalene	91-20-3	0	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	0	ND		0.0000993	0.00100
Styrene	100-42-5	0	ND		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	ND		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.000180	0.00100
Tetrachloroethene	127-18-4	0	ND		0.000300	0.00100
Toluene	108-88-3	0	ND		0.000278	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	ND		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	ND		0.000158	0.00100
Trichloroethene	79-01-6	0	ND		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	ND		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	ND		0.000237	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.000322	0.00100
1,2,3-Trimethylbenzene	526-73-8	0	ND		0.000104	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.000104	0.00100
Vinyl chloride	75-01-4	0	ND		0.000234	0.00100
Xylenes, Total	1330-20-7	0	ND		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 07.D
 Acq On : 25 Aug 2020 10:08 am
 Operator : 808
 Sample : L1253450-17 1x WG1531771
 Misc : soil
 ALS Vial : 7 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 25 14:07:27 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

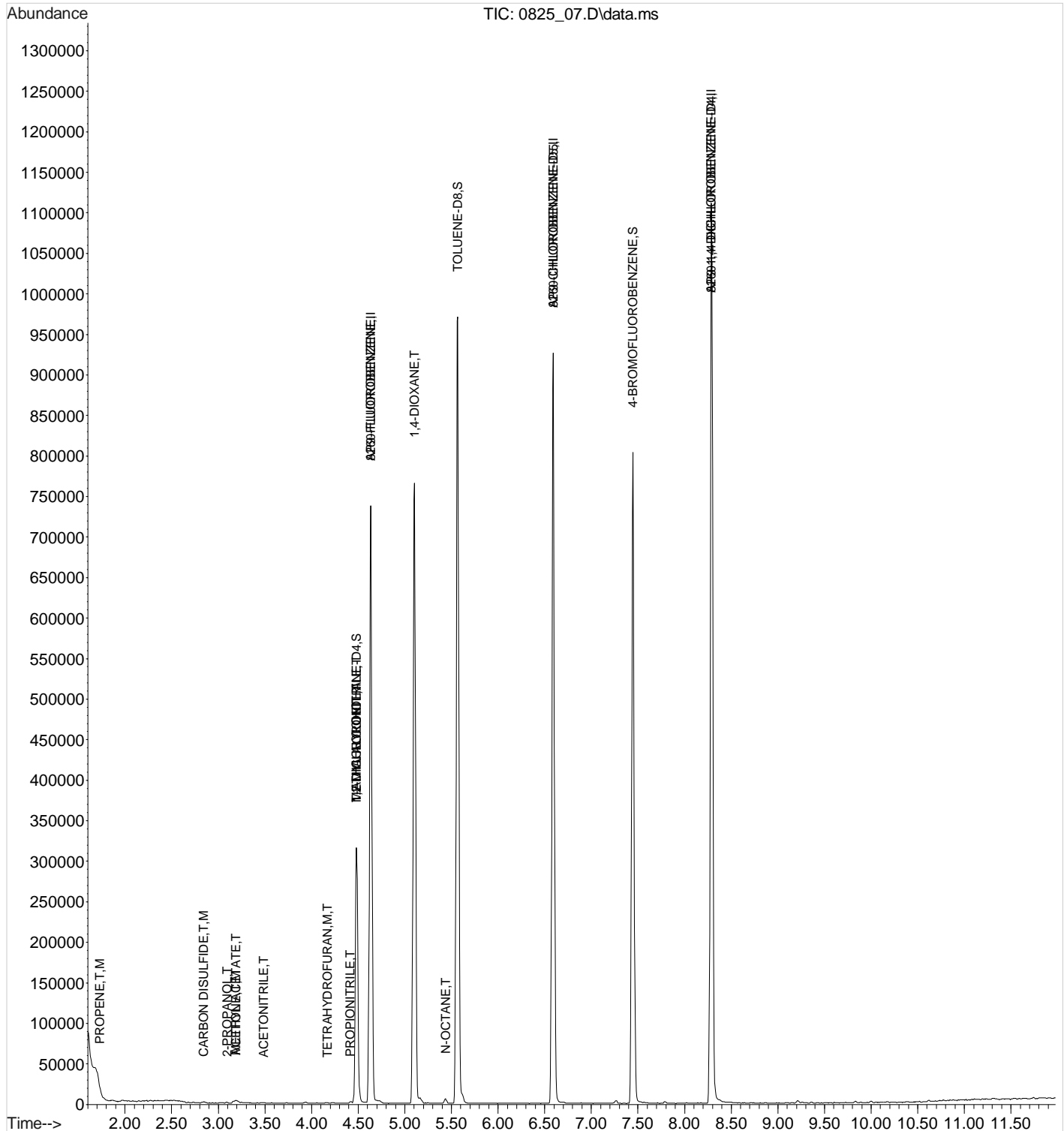
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

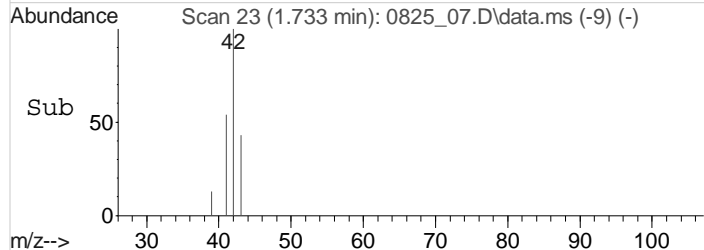
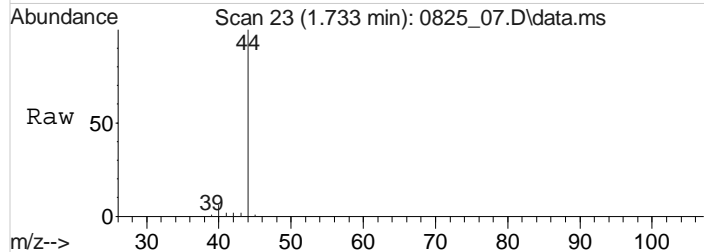
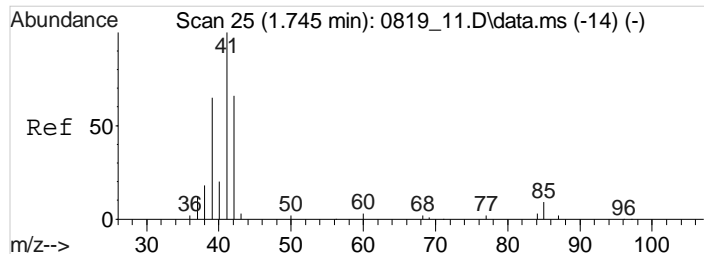
Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	639943	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	300254	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.287	152	345041	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.635	96	639943	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.592	82	300254	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	8.287	152	345041	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.483	65	214569	17.3747268	ppb	0.00
Spiked Amount 16.000			Recovery	= 108.59%		
61) TOLUENE-D8	5.568	98	680030	15.5236998	ppb	0.00
Spiked Amount 16.000	Range 89 - 115		Recovery	= 97.02%		
80) 4-BROMOFLUOROBENZENE	7.445	95	289677	17.1328874	ppb	0.00
Spiked Amount 16.000	Range 70 - 129		Recovery	= 107.08%		
Target Compounds						Qvalue
4) PROPENE	1.733	41	1936	0.8514724	ppb #	37
13) DICHLOROFLUOROMETHANE	2.483	67	228	Below Cal	#	1
19) ACETONE	3.190	43	5852	0.1903994	ppb #	84
21) CARBON DISULFIDE	2.843	76	2278	0.0860735	ppb #	80
24) METHYL ACETATE	3.190	43	5852	0.6939832	ppb #	52
38) TETRAHYDROFURAN	4.172	42	753	0.1540119	ppb #	88
50) T-AMYL ALCOHOL	4.483	59	433	0.2445691	ppb #	24
56) BROMODICHLOROMETHANE	5.098	83	219	Below Cal	#	1
111) 2-PROPANOL	3.093	45	335	0.3068096	ppb #	23
112) ACETONITRILE	3.489	41	1324	0.6736701	ppb #	69
114) PROPIONITRILE	4.416	54	335	0.1425109	ppb #	28
116) METHACRYLONITRILE	4.483	67	113578	20.9901992	ppb #	1
121) 1,4-DIOXANE	5.104	88	3553	25.7507354	ppb #	30
122) N-OCTANE	5.440	85	980	0.3028745	ppb	90

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

Data Path : C:\msdchem\1\data\082520\
Data File : 0825 07.D
Acq On : 25 Aug 2020 10:08 am
Operator : 808
Sample : L1253450-17 1x WG1531771
Misc : soil
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS26

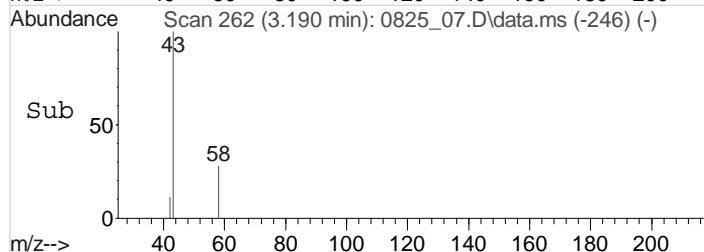
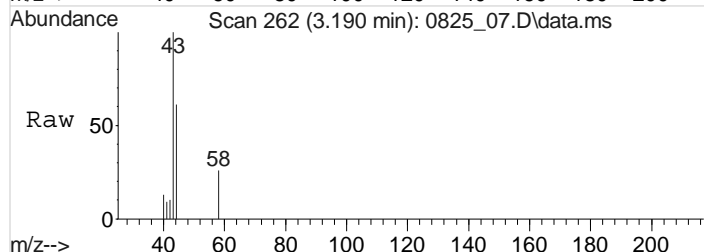
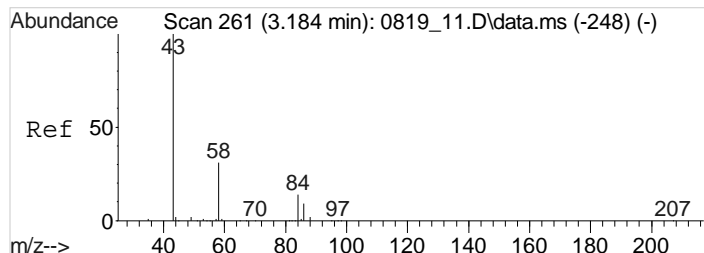
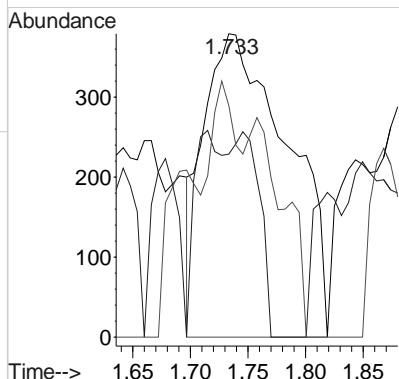
Quant Time: Aug 25 14:07:27 2020
Quant Method : C:\msdchem\1\methods\V826H21T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 09:38:52 2020
Response via : Initial Calibration





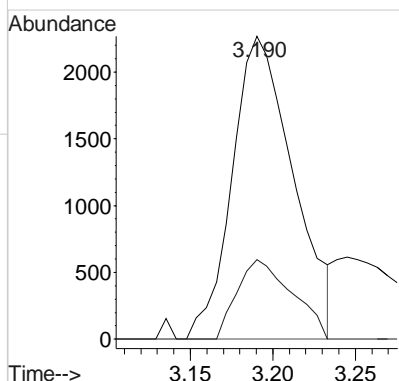
#4
PROPENE
Concen: 0.8514724 ppb
RT: 1.733 min Scan# 23
Delta R.T. -0.012 min
Lab File: 0825_07.D
Acq: 25 Aug 2020 10:08 am

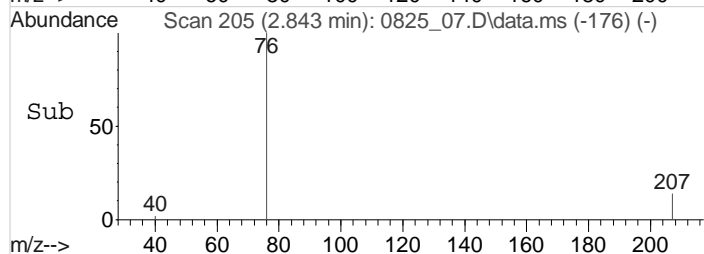
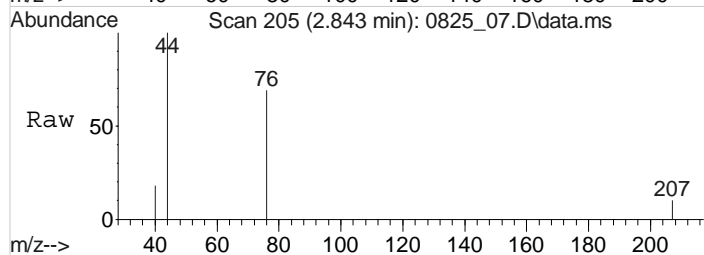
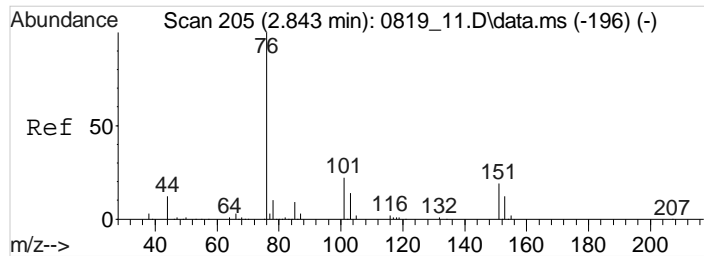
Tgt Ion: 41 Resp: 1936
Ion Ratio Lower Upper
41 100
39 22.0 55.2 82.8#
42 12.4 53.3 79.9#



#19
ACETONE
Concen: 0.1903994 ppb
RT: 3.190 min Scan# 262
Delta R.T. 0.006 min
Lab File: 0825_07.D
Acq: 25 Aug 2020 10:08 am

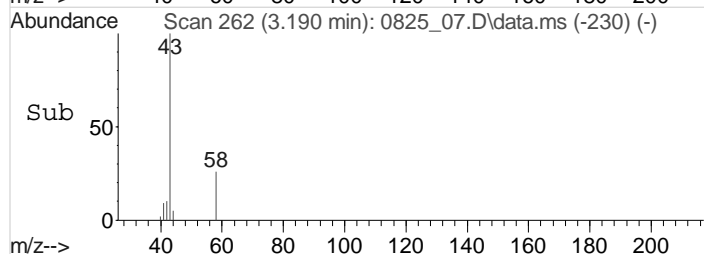
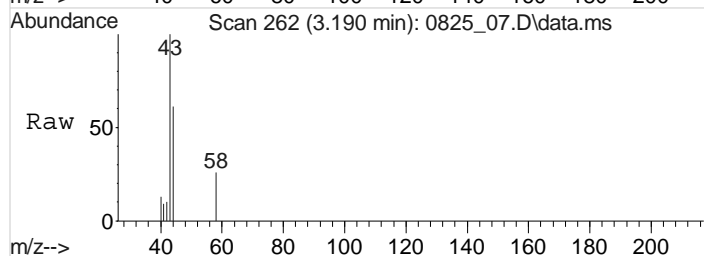
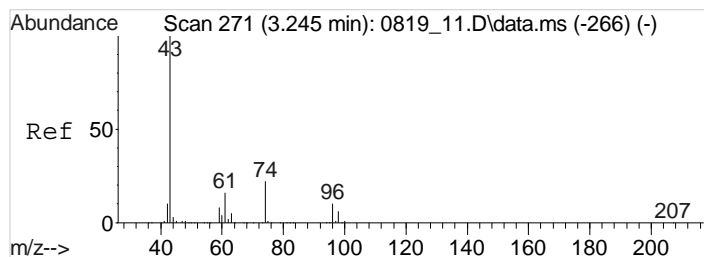
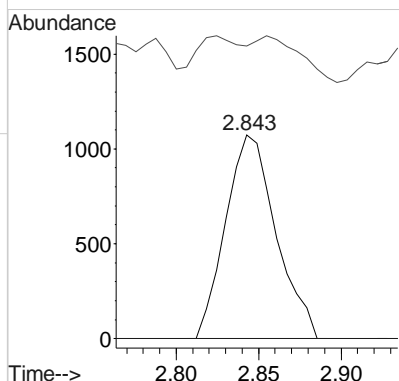
Tgt Ion: 43 Resp: 5852
Ion Ratio Lower Upper
43 100
58 23.6 26.0 39.0#





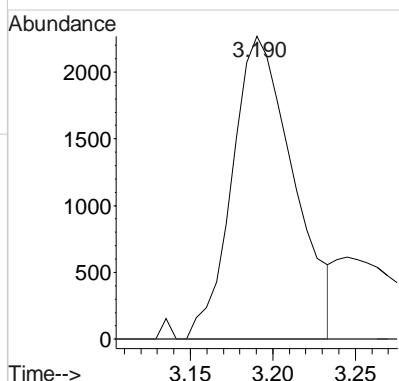
#21
CARBON DISULFIDE
Concen: 0.0860735 ppb
RT: 2.843 min Scan# 205
Delta R.T. 0.001 min
Lab File: 0825_07.D
Acq: 25 Aug 2020 10:08 am

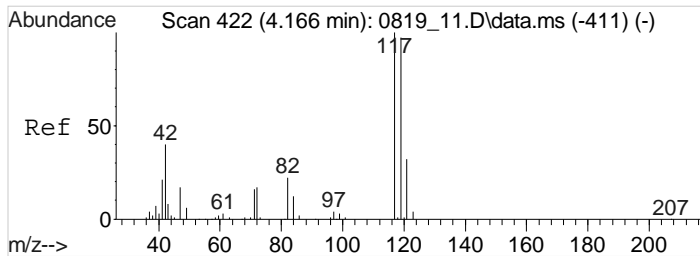
Tgt Ion: 76 Resp: 2278
Ion Ratio Lower Upper
76 100
78 0.0 8.5 12.7#
44 7.2 9.8 14.8#



#24
METHYL ACETATE
Concen: 0.6939832 ppb
RT: 3.190 min Scan# 262
Delta R.T. -0.055 min
Lab File: 0825_07.D
Acq: 25 Aug 2020 10:08 am

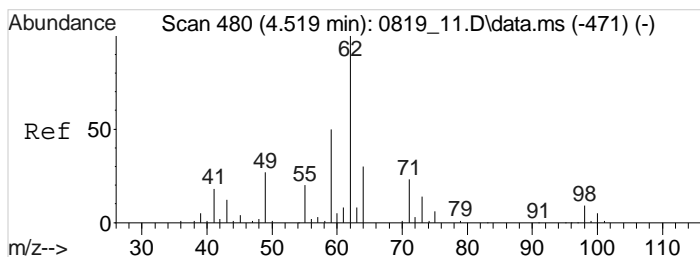
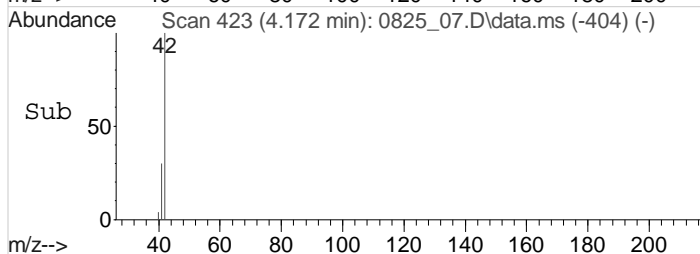
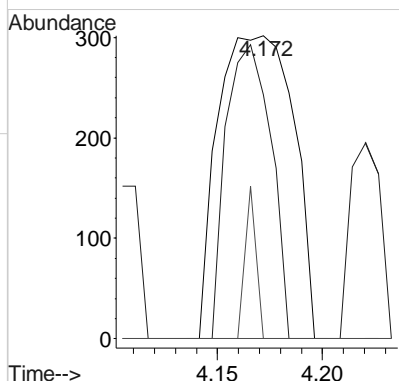
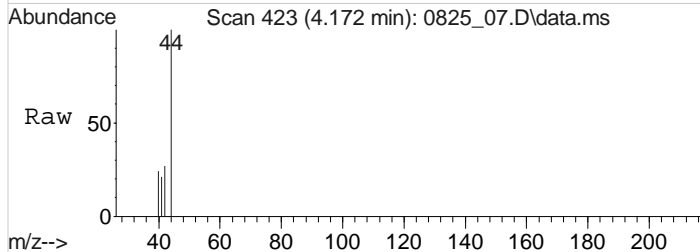
Tgt Ion: 43 Resp: 5852
Ion Ratio Lower Upper
43 100
74 0.0 19.0 28.6#
29 0.0 0.0 0.0





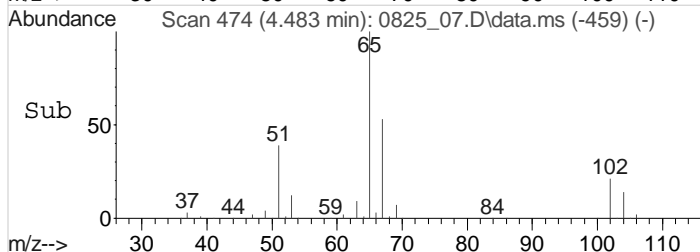
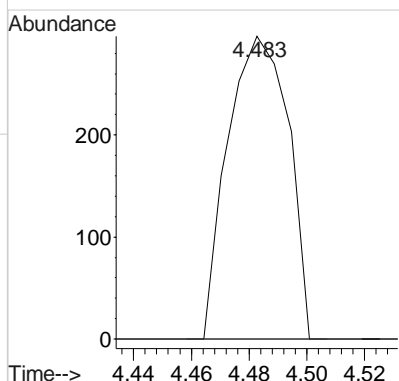
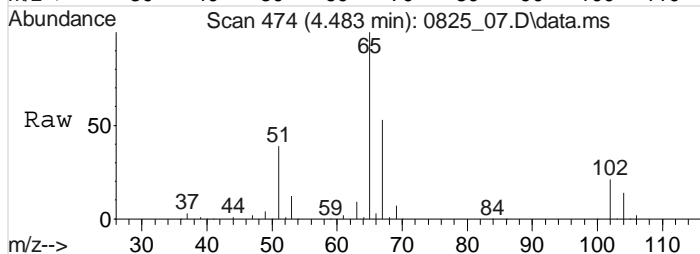
#38
TETRAHYDROFURAN
Concen: 0.1540119 ppb
RT: 4.172 min Scan# 423
Delta R.T. 0.007 min
Lab File: 0825_07.D
Acq: 25 Aug 2020 10:08 am

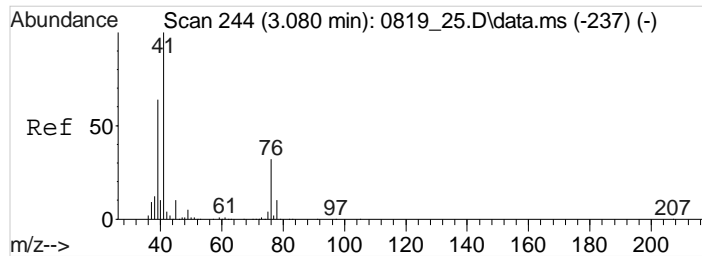
Tgt Ion: 42 Resp: 753
Ion Ratio Lower Upper
42 100
41 57.9 45.3 67.9
39 0.0 15.0 22.6#



#50
T-AMYL ALCOHOL
Concen: 0.2445691 ppb
RT: 4.483 min Scan# 474
Delta R.T. -0.037 min
Lab File: 0825_07.D
Acq: 25 Aug 2020 10:08 am

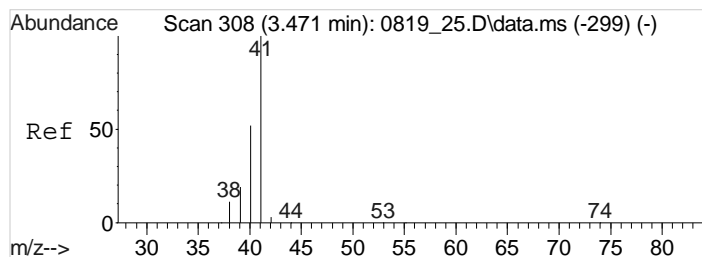
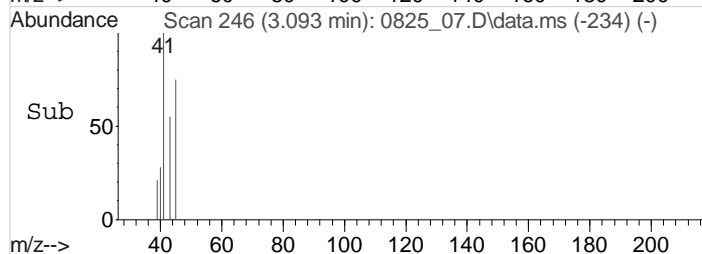
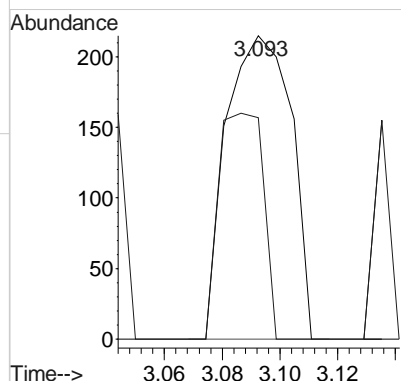
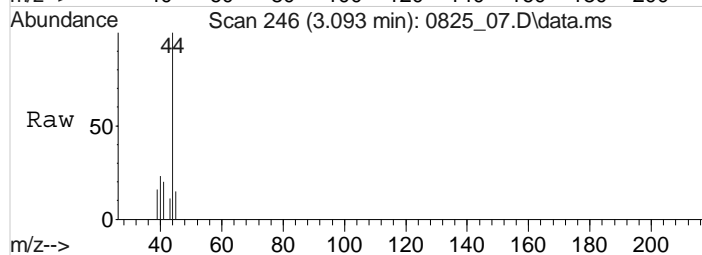
Tgt Ion: 59 Resp: 433
Ion Ratio Lower Upper
59 100
73 0.0 44.2 66.2#





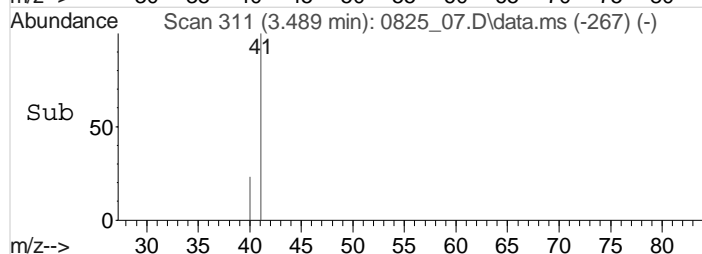
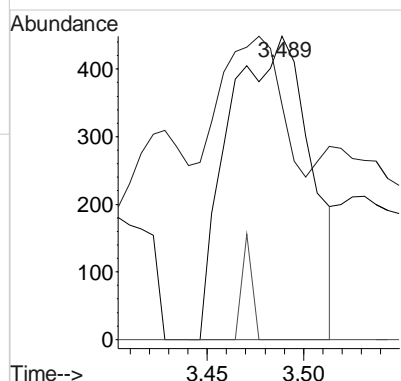
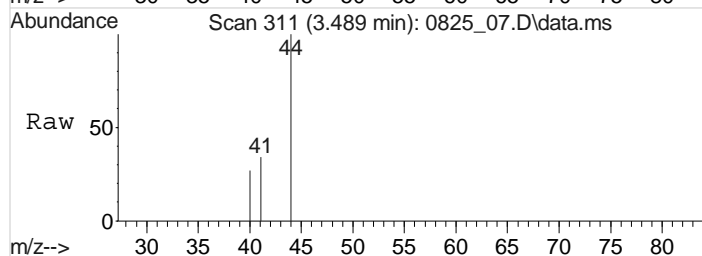
#111
2-PROPANOL
Concen: 0.3068096 ppb
RT: 3.093 min Scan# 246
Delta R.T. 0.012 min
Lab File: 0825_07.D
Acq: 25 Aug 2020 10:08 am

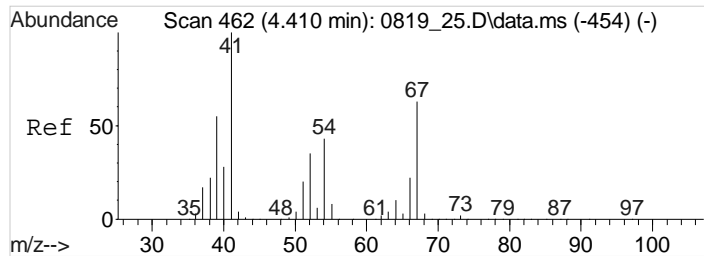
Tgt Ion: 45 Resp: 335
Ion Ratio Lower Upper
45 100
43 51.6 14.2 21.2#



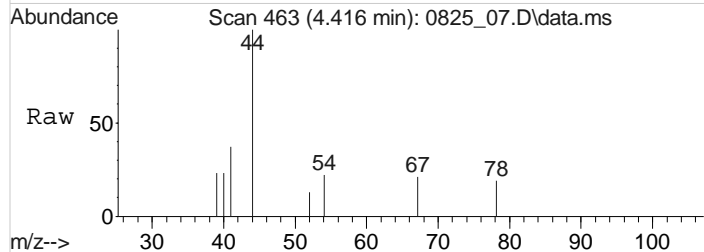
#112
ACETONITRILE
Concen: 0.6736701 ppb
RT: 3.489 min Scan# 311
Delta R.T. 0.018 min
Lab File: 0825_07.D
Acq: 25 Aug 2020 10:08 am

Tgt Ion: 41 Resp: 1324
Ion Ratio Lower Upper
41 100
40 33.0 41.7 62.5#
39 0.0 14.5 21.7#

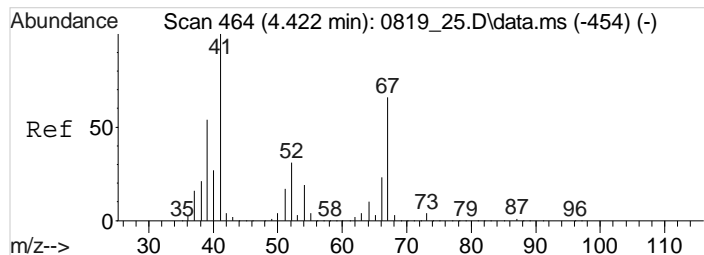
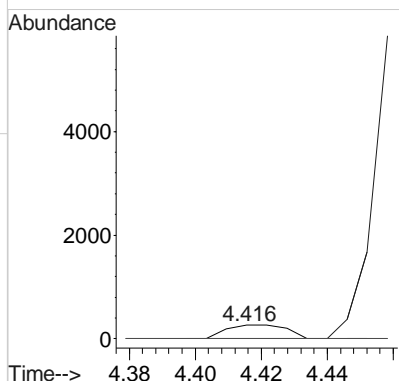
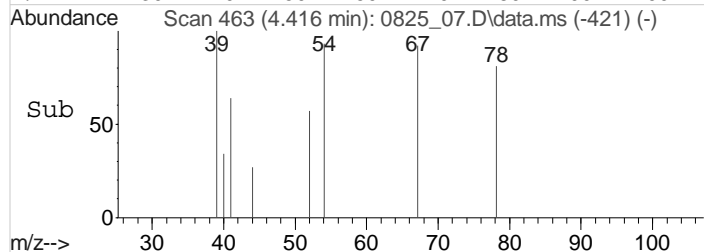




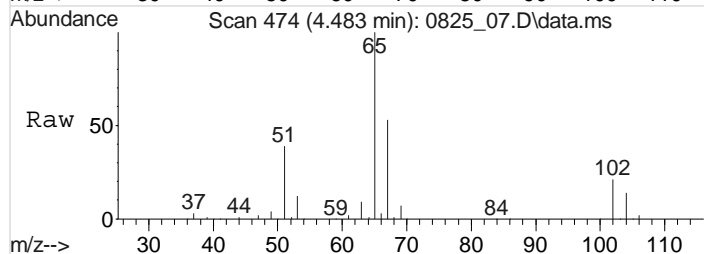
#114
 PROPIONITRILE
 Concen: 0.1425109 ppb
 RT: 4.416 min Scan# 463
 Delta R.T. 0.006 min
 Lab File: 0825_07.D
 Acq: 25 Aug 2020 10:08 am



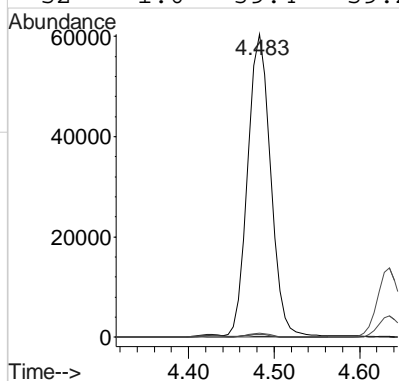
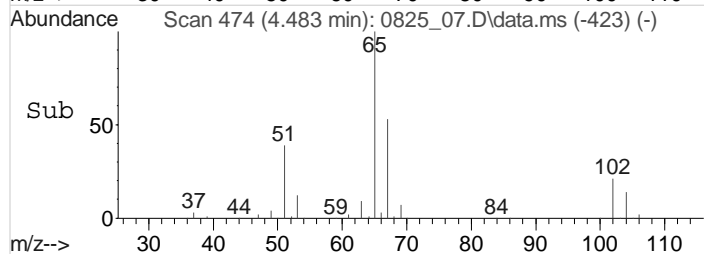
Tgt Ion: 54 Resp: 335
 Ion Ratio Lower Upper
 54 100
 51 0.0 49.8 74.6#
 55 0.0 21.4 32.2#

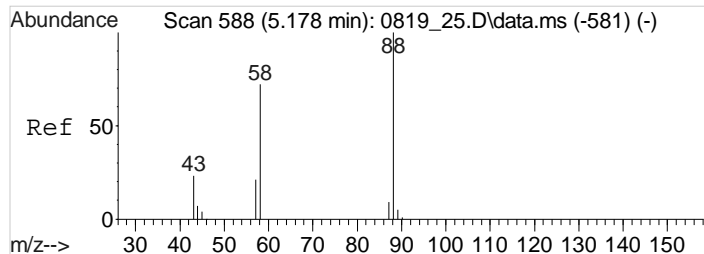


#116
 METHACRYLONITRILE
 Concen: 20.9901992 ppb
 RT: 4.483 min Scan# 474
 Delta R.T. 0.061 min
 Lab File: 0825_07.D
 Acq: 25 Aug 2020 10:08 am

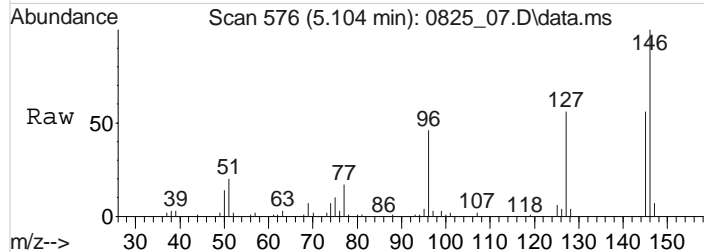


Tgt Ion: 67 Resp: 113578
 Ion Ratio Lower Upper
 67 100
 41 0.0 139.5 209.3#
 39 1.3 71.2 106.8#
 52 1.0 39.4 59.2#

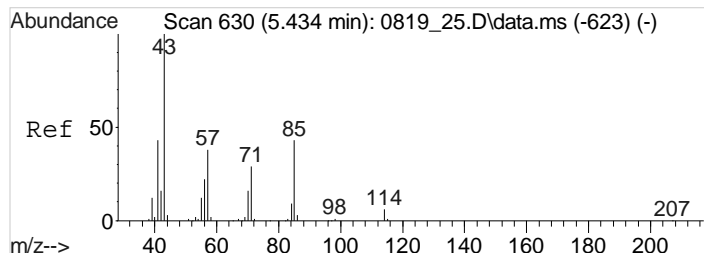
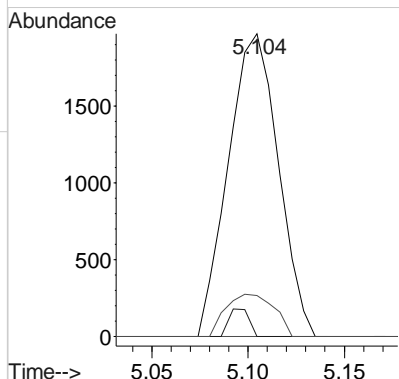
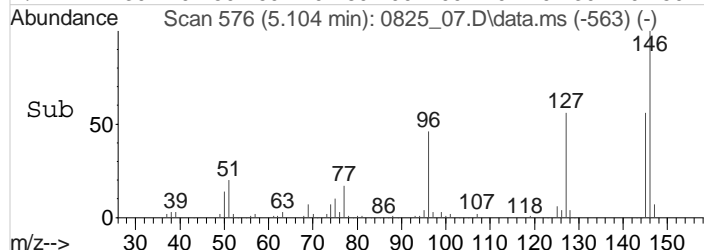




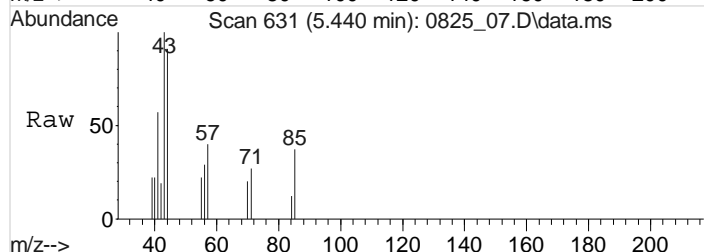
#121
1,4-DIOXANE
Concen: 25.7507354 ppb
RT: 5.104 min Scan# 576
Delta R.T. -0.073 min
Lab File: 0825_07.D
Acq: 25 Aug 2020 10:08 am



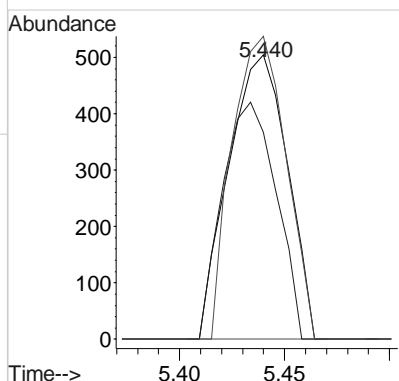
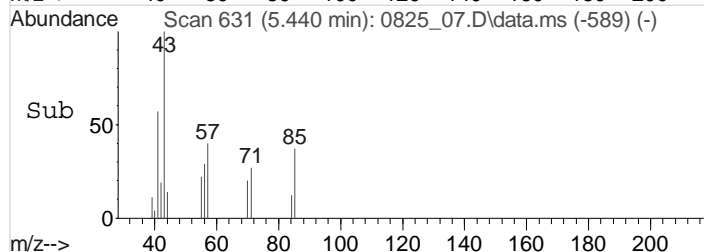
Tgt Ion: 88 Resp: 3553
Ion Ratio Lower Upper
88 100
58 0.0 58.0 87.0#
43 13.5 19.6 29.4#



#122
N-OCTANE
Concen: 0.3028745 ppb
RT: 5.440 min Scan# 631
Delta R.T. 0.006 min
Lab File: 0825_07.D
Acq: 25 Aug 2020 10:08 am



Tgt Ion: 85 Resp: 980
Ion Ratio Lower Upper
85 100
71 76.1 55.2 82.8
57 97.9 70.0 105.0



6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1253450
Instrument ID: VOCMS7

Analytical Method: 8260B

Analyte	RRF: 0.04	RRF: 0.1	RRF: 0.2	RRF: 0.5	RRF: 1	RRF: 5.0	RRF: 25	RRF: 75	RRF: 100	RRF: 200
Analysis date/time	07/07/20 16:02	07/07/20 16:22	07/07/20 16:42	07/07/20 17:02	07/07/20 17:22	07/07/20 18:02	07/07/20 18:22	07/07/20 18:42	07/07/20 19:02	07/07/20 19:22
METHYL TERT-BUTYL ETHER	0.8440	1.1710	0.9720	1.0440	0.9010	0.9740	0.9980	0.9470	0.9350	0.8930
DI-ISOPROPYL ETHER	0.9450	1.1380	0.99	1.1170	1.0660	1.1060	1.1090	1.0880	1.0560	0.9980
BENZENE	1.6220	1.6130	1.6460	1.5090	1.2640	1.4410	1.4680	1.4290	1.4140	1.2980
1,2-DICHLOROETHANE-D4	0.29	0.3090	0.3110	0.3070	0.3030	0.3110	0.3340	0.3030	0.3110	0.3340
TOLUENE-D8	2.6270	2.6230	2.6660	2.6840	2.6360	2.6530	2.3990	2.5710	2.5610	2.6430
4-BROMOFLUOROBENZENE	0.8990	0.8860	0.9310	0.92	0.9070	0.8770	0.8270	0.9320	0.9230	1.0280
DICHLORODIFLUOROMETHANE		0.5930	0.6270	0.5330	0.5440	0.5260	0.5740	0.6380	0.6160	0.6140
TRICHLOROFLUOROMETHANE		0.5790	0.6790	0.6480	0.5790	0.5790	0.6240	0.6780	0.6880	0.6710
1,1-DICHLOROETHENE		0.3530	0.3170	0.32	0.2780	0.3120	0.30	0.3170	0.3080	0.30
TRANS-1,2-DICHLOROETHENE		0.33	0.3720	0.3820	0.3310	0.3480	0.3460	0.3380	0.3260	0.3020
1,1-DICHLOROETHANE		0.6610	0.6530	0.67	0.6330	0.6440	0.6470	0.6380	0.6210	0.5930
1,1,1-TRICHLOROETHANE		0.5230	0.6170	0.5480	0.5930	0.6010	0.6120	0.6090	0.5960	0.5630
CARBON TETRACHLORIDE		0.5570	0.57	0.5350	0.5140	0.5550	0.5450	0.5480	0.5380	0.5190
1,1-DICHLOROPROPENE		0.3780	0.4660	0.4880	0.4430	0.4790	0.48	0.4930	0.4820	0.4480
1,2-DICHLOROETHANE		0.4090	0.4360	0.4670	0.4140	0.4440	0.4570	0.4510	0.4440	0.4250
BROMODICHLOROMETHANE		0.44	0.5430	0.4870	0.44	0.4720	0.49	0.4860	0.4780	0.4520
4-METHYL-2-PENTANONE (MIBK)		1.5450	1.4310	1.3690	1.2120	1.3340	1.30	1.2980	1.2360	1.1530
TETRACHLOROETHENE		0.8580	0.6850	1.01	0.8570	0.8610	0.8230	0.8710	0.8230	0.80
1,3-DICHLOROPROPANE		0.9590	1.0120	1.2380	1.21	1.2320	1.2070	1.2440	1.2040	1.1860
CHLOROBENZENE		2.4680	2.3790	2.5910	2.3710	2.5340	2.3430	2.4810	2.3560	2.2990
1,1,1,2-TETRACHLOROETHANE		0.6560	0.8020	0.9350	0.8110	0.8470	0.8120	0.8510	0.8230	0.8330
ETHYLBENZENE		1.0450	1.3590	1.3470	1.4070	1.3260	1.3140	1.4030	1.3570	1.3040
M&P-XYLENE		1.8740	1.7840	1.8830	1.4570	1.7230	1.6070	1.6630	1.6130	1.5470
O-XYLENE		1.4160	1.9230	1.6580	1.4680	1.6310	1.5770	1.6620	1.5930	1.5860
ISOPROPYLBENZENE		3.9960	4.4080	4.1910	3.8640	3.9920	3.9020	4.1250	4.01	3.9540
1,1,2,2-TETRACHLOROETHANE		1.3060	1.6570	1.3540	1.3940	1.4230	1.5430	1.4740	1.4170	1.3020
N-PROPYLBENZENE		5.6110	5.2610	4.9310	4.4820	4.8160	5.3720	5.3080	5.0630	4.4950
4-CHLOROTOLUENE		2.72	3.1410	2.6240	2.2790	2.5290	2.8010	2.7780	2.6870	2.5020
TERT-BUTYLBENZENE		3.2210	3.2520	2.9360	2.9350	2.9730	3.1370	3.0760	2.9830	2.7390
1,2,4-TRIMETHYLBENZENE		2.6250	2.8390	2.82	2.8280	2.9050	3.2360	3.1360	3.0260	2.6920
SEC-BUTYLBENZENE		3.8020	4.3710	3.3650	3.3550	3.54	3.7280	3.6340	3.5130	3.19
P-ISOPROPYLTOLUENE		2.60	2.7680	3.0040	2.8160	2.9910	3.26	3.1680	3.0930	2.7570
1,4-DICHLOROBENZENE		1.9530	1.9730	1.9910	1.7250	1.64	1.8440	1.7710	1.7330	1.5610
1,2,3-TRIMETHYLBENZENE		2.3640	2.5360	2.3860	2.1620	2.3080	2.4080	2.3150	2.2150	1.9390
1,2-DICHLOROBENZENE		1.4480	1.6130	1.6240	1.5270	1.5950	1.7580	1.7550	1.7020	1.5350
N-BUTYLBENZENE		2.3680	2.72	2.4210	2.2720	2.4640	2.66	2.6360	2.5440	2.2650
NAPHTHALENE		2.2830	2.6830	2.5610	2.6120	2.7470	3.0870	2.9350	2.9460	2.6390
1,2,3-TRICHLOROBENZENE		0.6570	0.8220	0.75	0.7590	0.8280	0.88	0.8520	0.8490	0.7640
CHLOROETHANE			0.76	0.5310	0.3360	0.2910	0.27			
CIS-1,2-DICHLOROETHENE			0.3910	0.3620	0.3670	0.3920	0.4020	0.3970	0.3860	0.3660
CHLOROFORM			0.8340	0.8360	0.7090	0.6720	0.6830	0.6580	0.6420	0.5980
TRICHLOROETHENE			0.3370	0.4460	0.3920	0.3990	0.4110	0.4080	0.4040	0.3850
1,2-DICHLOROPROPANE			0.1830	0.2360	0.2190	0.2350	0.2480	0.2410	0.2390	0.2260
CIS-1,3-DICHLOROPROPENE			0.46	0.4480	0.4830	0.5210	0.5540	0.5510	0.5450	0.5150
TOLUENE			4.3430	4.5160	3.9780	4.0210	3.7190	3.8050	3.6720	3.4720
1,1,2-TRICHLOROETHANE			0.95	0.7360	0.7120	0.78	0.7390	0.7680	0.7350	0.7420
CHLORODIBROMOMETHANE			0.8660	0.8950	0.8780	0.9370	0.9240	0.9950	0.9620	0.9720
BROMOBENZENE			1.7710	1.9730	1.7780	1.7060	1.8490	1.8020	1.7460	1.58
1,3,5-TRIMETHYLBENZENE			3.8670	3.8070	3.4350	3.61	3.6750	3.4750	3.38	3.0460
1,3-DICHLOROBENZENE			1.2930	1.5470	1.3790	1.6980	1.6930	1.72	1.6790	1.5950



SDG: L1253450
Instrument ID: VOCMS7

Analytical Method: 8260B

Analyte	RRF: 0.04	RRF: 0.1	RRF: 0.2	RRF: 0.5	RRF: 1	RRF: 5.0	RRF: 25	RRF: 75	RRF: 100	RRF: 200
Analysis date/time	07/07/20 16:02	07/07/20 16:22	07/07/20 16:42	07/07/20 17:02	07/07/20 17:22	07/07/20 18:02	07/07/20 18:22	07/07/20 18:42	07/07/20 19:02	07/07/20 19:22
1,2,4-TRICHLOROBENZENE			0.7330	0.85	0.81	0.8980	0.9880	0.9360	0.9270	0.8140
HEXACHLORO-1,3-BUTADIENE			0.3680	0.3950	0.4550	0.4490	0.4720	0.4560	0.4470	0.3950
CHLOROMETHANE				0.7020	0.6390	0.60	0.5950	0.5840	0.6050	0.6870
VINYL CHLORIDE				0.5320	0.4770	0.4970	0.5090	0.5090	0.4910	0.4350
BROMOMETHANE				0.5960	0.5460	0.4780	0.33	0.2740	0.2590	0.2030
1,1,2-TRICHLOROTRIFLUOROETHANE				0.2970	0.2960	0.2950	0.3280	0.3490	0.3430	0.3290
ACETONE				0.1840	0.1440	0.1490	0.1630	0.1650	0.1630	0.1560
2,2-DICHLOROPROPANE				0.5680	0.5470	0.5730	0.56	0.5710	0.5590	0.5320
2-BUTANONE (MEK)				0.2250	0.20	0.2470	0.2620	0.27	0.26	0.24
DIBROMOMETHANE				0.1760	0.1950	0.2090	0.2160	0.2210	0.2150	0.2090
TRANS-1,3-DICHLOROPROPENE				0.9460	0.9820	1.0120	1.0990	1.1730	1.1310	1.1210
1,2-DIBROMOETHANE				0.7780	0.7780	0.8290	0.8270	0.8590	0.8220	0.8370
STYRENE				2.2130	2.1350	2.3780	2.4250	2.58	2.4940	2.4680
BROMOFORM				0.6850	0.6820	0.78	0.7710	0.85	0.8230	0.8660
1,2,3-TRICHLOROPROPANE				0.3630	0.4060	0.4440	0.4510	0.4170	0.4140	0.3880
2-CHLOROTOLUENE				3.2010	2.6650	2.9690	3.2460	3.1230	3.0470	2.7060
1,2-DIBROMO-3-CHLOROPROPANE				0.3970	0.3310	0.4180	0.4690	0.4450	0.4420	0.4050
ACROLEIN					0.0410	0.04	0.0420	0.0450	0.0440	0.0440
METHYLENE CHLORIDE					0.3860	0.3660	0.3590	0.3390	0.3320	0.3120
ACRYLONITRILE					0.1440	0.1780	0.1950	0.1930	0.1890	0.1810
File ID:	0707_05	0707_06	0707_07	0707_08	0707_09	0707_11	0707_12	0707_13	0707_14	0707_15



SDG: L1253450
Instrument ID: VOCMS7

Analytical Method: 8260B

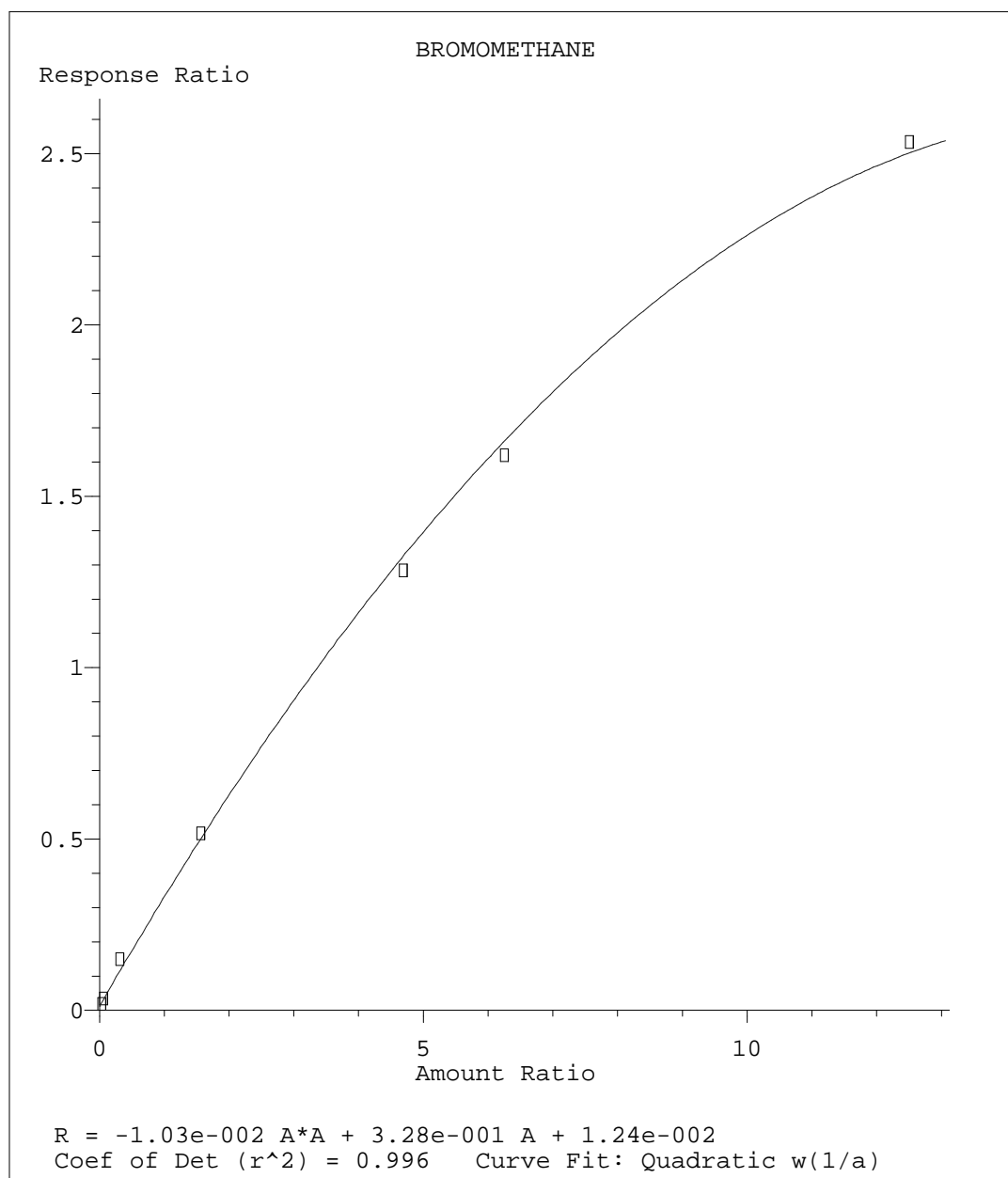
Analyte	RRF. Avg	%RSD	COD
Analysis date/time			
METHYL TERT-BUTYL ETHER	0.967923	9.45	
DI-ISOPROPYL ETHER	1.061483	6.01	
BENZENE	1.470211	8.89	
1,2-DICHLOROETHANE-D4	0.311366	4.32	
TOLUENE-D8	2.606448	3.16	
4-BROMOFLUOROBENZENE	0.913071	5.63	
DICHLORODIFLUOROMETHANE	0.58498	7.27	
TRICHLOROFLUOROMETHANE	0.636092	7.33	
1,1-DICHLOROETHENE	0.311713	6.43	
TRANS-1,2-DICHLOROETHENE	0.341669	7.06	
1,1-DICHLOROETHANE	0.640064	3.58	
1,1,1-TRICHLOROETHANE	0.584738	5.58	
CARBON TETRACHLORIDE	0.542306	3.31	
1,1-DICHLOROPROPENE	0.461888	7.77	
1,2-DICHLOROETHANE	0.438355	4.42	
BROMODICHLOROMETHANE	0.476452	6.68	
4-METHYL-2-PENTANONE (MIBK)	1.319651	9	
TETRACHLOROETHENE	0.842982	10.01	
1,3-DICHLOROPROPANE	1.165699	8.98	
CHLOROBENZENE	2.42448	4.04	
1,1,1,2-TETRACHLOROETHANE	0.818803	8.9	
ETHYLBENZENE	1.317986	8.23	
M&P-XYLENE	1.683541	8.64	
O-XYLENE	1.61271	8.86	
ISOPROPYLBENZENE	4.049044	4.16	
1,1,2,2-TETRACHLOROETHANE	1.429936	8.01	
N-PROPYLBENZENE	5.037625	7.77	
4-CHLOROTOLUENE	2.673467	8.94	
TERT-BUTYLBENZENE	3.027958	5.31	
1,2,4-TRIMETHYLBENZENE	2.900834	6.88	
SEC-BUTYLBENZENE	3.610857	9.52	
P-ISOPROPYLTOLUENE	2.939676	7.4	
1,4-DICHLOROBENZENE	1.79916	8.46	
1,2,3-TRIMETHYLBENZENE	2.292469	7.48	
1,2-DICHLOROBENZENE	1.617461	6.56	
N-BUTYLBENZENE	2.48344	6.73	
NAPHTHALENE	2.721387	8.89	
1,2,3-TRICHLOROBENZENE	0.795482	8.73	
CHLOROETHANE	0.437711	47.38	0.999
CIS-1,2-DICHLOROETHENE	0.3829	4.05	
CHLOROFORM	0.70397	12.35	
TRICHLOROETHENE	0.397673	7.69	
1,2-DICHLOROPROPANE	0.228386	8.93	
CIS-1,3-DICHLOROPROPENE	0.5097	8.17	
TOLUENE	3.940515	8.9	
1,1,2-TRICHLOROETHANE	0.770136	9.84	
CHLORODIBROMOMETHANE	0.928661	4.99	
BROMOBENZENE	1.775755	6.35	
1,3,5-TRIMETHYLBENZENE	3.536925	7.45	
1,3-DICHLOROBENZENE	1.575602	10.17	
1,2,4-TRICHLOROBENZENE	0.869325	9.56	

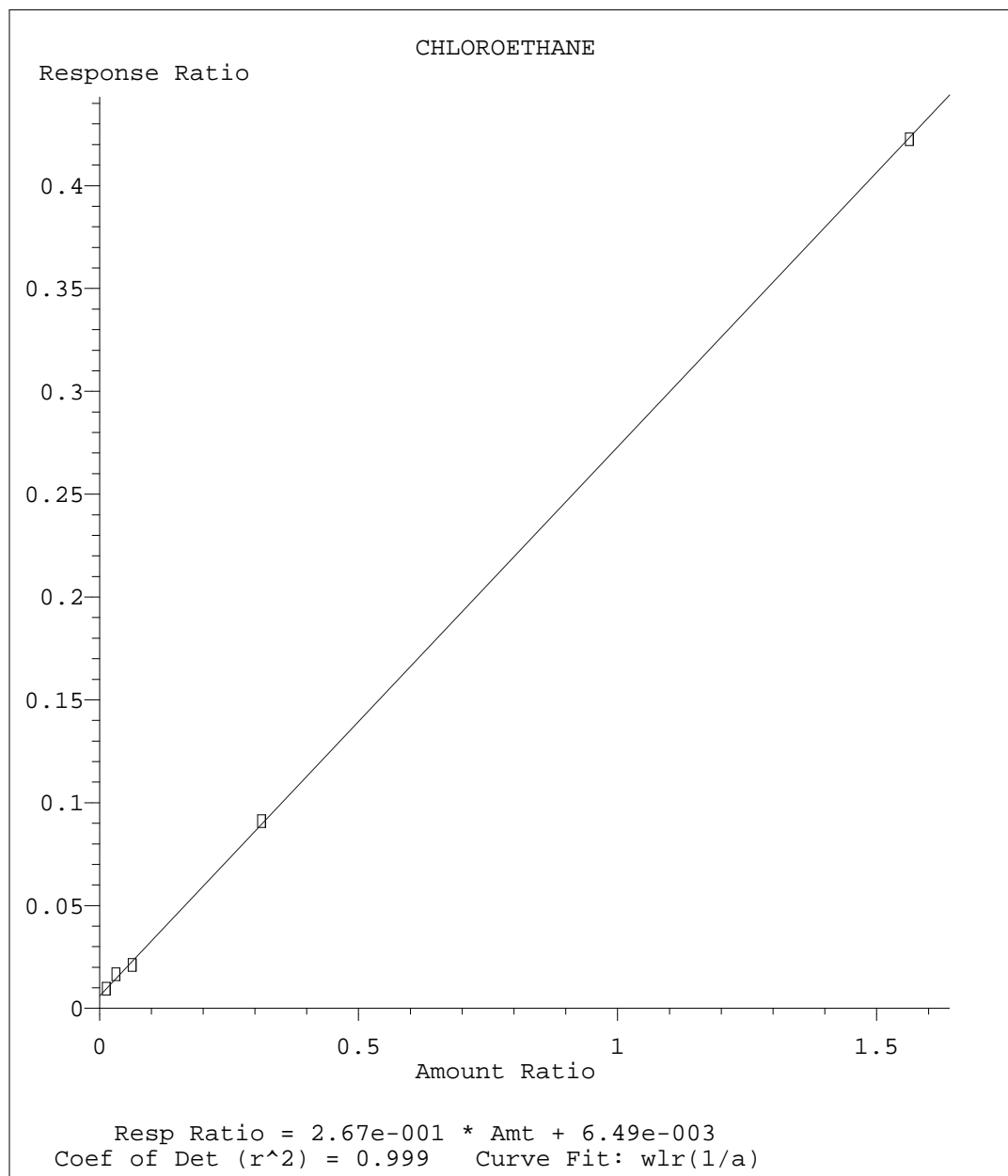


SDG: L1253450
Instrument ID: VOCMS7

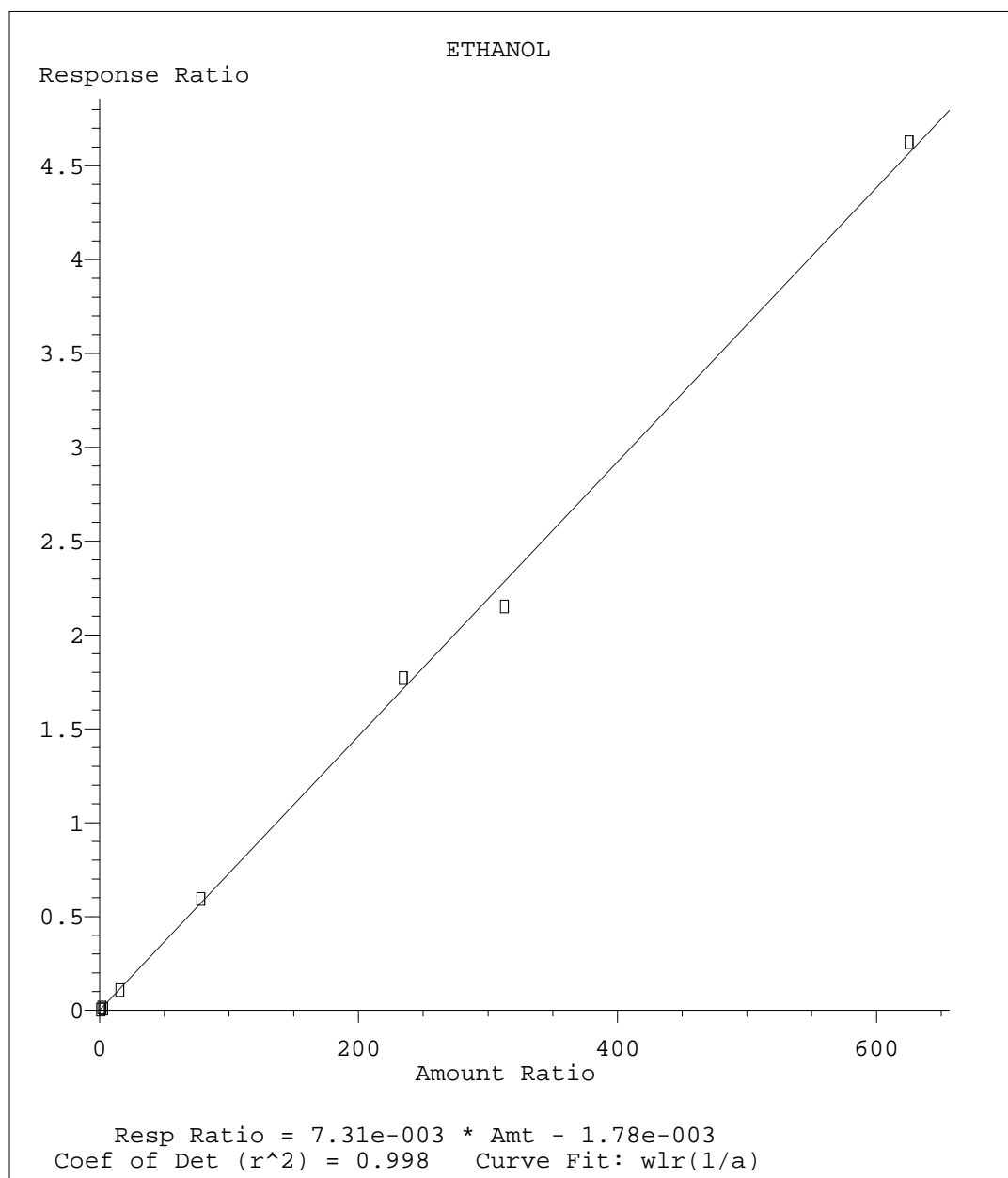
Analytical Method: 8260B

Analyte	RRF. Avg	%RSD	COD
Analysis date/time			
HEXACHLORO-1,3-BUTADIENE	0.429715	8.78	
CHLOROMETHANE	0.630426	7.52	
VINYL CHLORIDE	0.492979	6.27	
BROMOMETHANE	0.383545	40.29	0.996
1,1,2-TRICHLOROTRIFLUOROETHANE	0.319584	7.22	
ACETONE	0.160644	8.03	
2,2-DICHLOROPROPANE	0.558647	2.64	
2-BUTANONE (MEK)	0.243611	9.97	
DIBROMOMETHANE	0.205793	7.46	
TRANS-1,3-DICHLOROPROPENE	1.066184	8.03	
1,2-DIBROMOETHANE	0.818611	3.67	
STYRENE	2.38471	6.64	
BROMOFORM	0.779644	9.49	
1,2,3-TRICHLOROPROPANE	0.411813	7.39	
2-CHLOROTOLUENE	2.993693	7.69	
1,2-DIBROMO-3-CHLOROPROPANE	0.415247	10.8	
ACROLEIN	0.042573	4.73	
METHYLENE CHLORIDE	0.348921	7.58	
ACRYLONITRILE	0.179918	10.34	





Method Name: C:\msdchem\1\methods\V807G07T.M



Method Path : C:\msdchem\1\methods\
 Method File : V807G07T.M
 Title : Volatile Organics by GC/MS
 Last Update : Wed Jul 08 09:30:56 2020
 Response Via : Initial Calibration

Calibration Files

0.04=0707_05.D 0.1 =0707_06.D 0.2 =0707_07.D 0.5 =0707_08.D 1 =0707_09.D 5.0 =0707_11.D 25 =0707_12.D
 75 =0707_13.D 100 =0707_14.D 200 =0707_15.D 1a =0707_22.D 5a =0707_23.D 10a =0707_24.D 15a =0707_25.D
 20a =0707_26.D

Compound	0.04	0.1	0.2	0.5	1	5.0	25	75	100	200	1a	5a	10a	15a	20a	Avg
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%RSD

1) I	8260-FLUOROBENZENE															0.000#	-1
2) H	TPH (GC/MS) LO...															2.050	E3
3) H	LRH (C5-C8)															0.236#	10
4) T, M	PROPENE															0.585	7
5) T, M	DICHLORODIFLUO...															0.630	
6) P, T, M	CHLOROMETHANE															0.493	
7) C, T, M	VINYL CHLORIDE															0.377	10
8) T, M	1,3-BUTADIENE															0.384	40
9) T, M	BROMOMETHANE															0.438	47
10) T, M	CHLOROETHANE															0.318	7
11) T, M	VINYL BROMIDE															0.636	7
12) T, M	TRICHLOROFLUOR...															0.773	7
13) T, M	DICHLOROFLUORO...															0.231#	9
14) M, T	ETHYL ETHER															0.043#	4
15) T, M	ACROLEIN															0.007#	26
16) T	ETHANOL															0.312	
17) C, T, M	1,1-DICHLOROET...															0.320	7
18) M, T	1,1,2-TRICHLOR...															0.161#	8
19) T, M	ACETONE																

Method Path : C:\msdchem\1\methods\
 Method File : V807G07T.M
 Title : Volatile Organics by GC/MS
 Last Update : Wed Jul 08 09:30:56 2020

20) T, M IODOMETHANE	0.570	0.514	0.561	0.621	0.610	0.579	6
21) T, M CARBON DISULFIDE	1.075	0.938	0.930	0.949	0.960	0.939	8
22) T ALLYL CHLORIDE	0.169	0.195	0.183	0.183	0.194	0.175	8
23) T, M METHYLENE CHLO...	0.386	0.366	0.359	0.339	0.332	0.312	7
24) T METHYL ACETATE	0.260	0.258	0.294	0.319	0.298	0.288	7
25) T, M ACRYLONITRILE	0.144	0.178	0.195	0.193	0.189	0.181	10
26) T, M n-HEXANE	0.272	0.202	0.224	0.237	0.229	0.197	11
27) T, M TRANS-1,2-DICH...	0.330	0.372	0.382	0.331	0.348	0.326	7
28) T, M METHYL TERT-BU...	0.844	1.171	0.972	1.044	0.901	0.947	9
29) T TERT-BUTYL ALC...	0.087	0.087	0.068	0.076	0.080	0.076	7
30) P, T, M1,1-DICHLOROET...	0.661	0.653	0.670	0.633	0.644	0.621	14
31) T, M VINYL ACETATE	0.518	0.549	0.541	0.591	0.703	0.709	6
32) T, M DI-ISOPROPYL E...	0.945	1.138	0.990	1.117	1.066	1.109	8
33) T ETHYL TERT-BUT...	0.842	1.092	1.056	0.912	1.003	0.990	2
34) T, M 2,2-DICHLOROPR...	0.568	0.547	0.573	0.560	0.571	0.559	4
35) T, M CIS-1,2-DICHL...	0.391	0.362	0.367	0.392	0.402	0.397	9
36) T, M 2-BUTANONE (MEK)	0.225	0.200	0.247	0.262	0.270	0.260	14
37) T, M BROMOCHLOROMET...	0.175	0.197	0.219	0.217	0.245	0.199	15
38) M, T TETRAHYDROFURAN	0.218	0.207	0.175	0.160	0.157	0.155	1
39) C, T, MCHLOROFORM	0.834	0.836	0.709	0.672	0.683	0.658	10
40) T CYCLOHEXANE	0.576	0.438	0.445	0.437	0.469	0.505	5
41) T, M 1,1,1-TRICHLOR...	0.523	0.617	0.548	0.593	0.601	0.612	3
42) T, M CARBON TETRACH...	0.557	0.570	0.535	0.514	0.555	0.548	7
43) T, M 1,1-DICHLOROPR...	0.378	0.466	0.488	0.443	0.479	0.480	5
44) T, M 2,2,4-TRIMETHY...	0.578	0.536	0.602	0.608	0.599	0.550	

Response Factor Report VOCMS7

Method Path : C:\msdchem\1\methods\
 Method File : V807G07T.M
 Title : Volatile Organics by GC/MS
 Last Update : Wed Jul 08 09:30:56 2020

45) T,M n-Heptane	0.178	0.169	0.144	0.138	0.159	0.173	0.171	0.143	0.159#	9	
46) T,M BENZENE	1.622	1.613	1.646	1.509	1.264	1.441	1.468	1.429	1.414	1.298	8
47) T TERT-AMYL METH...	1.162	0.998	1.072	1.000	0.987	0.990	0.966	0.943	0.897	7	
48) S 1,2-DICHLOROET...	0.290	0.309	0.311	0.307	0.303	0.311	0.334	0.303	0.311	0.334	4
49) T,M 1,2-DICHLOROET...	0.409	0.436	0.467	0.414	0.444	0.457	0.451	0.444	0.425	4	
50) T T-AMYL ALCOHOL	0.062	0.065	0.063	0.069	0.074	0.073	0.071	0.074	0.069#	7	
51) T,M TRICHLOROETHENE	0.337	0.446	0.392	0.399	0.411	0.408	0.404	0.385	0.398	7	
52) T,M METHYL CYCLOHE...	0.517	0.502	0.454	0.443	0.491	0.529	0.515	0.460	0.489	6	
53) T,M TERT-AMYL ETHY...	0.618	0.710	0.672	0.646	0.748	0.769	0.757	0.748	0.711	7	
54) C,T,M1,2-DICHLOROPR...	0.183	0.236	0.219	0.235	0.248	0.241	0.239	0.226	0.228#	7	
55) T,M DIBROMOMETHANE	0.176	0.195	0.209	0.216	0.221	0.215	0.209	0.206#	0.476	6	
56) T,M BROMODICHLOROM...	0.440	0.543	0.487	0.440	0.472	0.490	0.486	0.478	0.452	11	
57) T,M 2-CHLOROETHYL ...	0.210	0.195	0.246	0.271	0.266	0.256	0.238	0.240#	0.510	8	
58) T,M CIS-1,3-DICHLOR...	0.460	0.448	0.483	0.521	0.554	0.551	0.545	0.515	1.320	9	
59) I 8260-CHLOROBENZENE-D5	1.545	1.431	1.369	1.212	1.334	1.300	1.298	1.236	2.606	3	
60) T,M 4-METHYL-2-PEN...	2.627	2.623	2.666	2.684	2.636	2.653	2.399	2.571	3.941	8	
61) S TOLUENE-D8	4.343	4.516	3.978	4.021	3.719	3.805	3.672	3.472	1.066	9	
62) T,M,CTOLUENE	0.946	0.982	1.012	1.099	1.173	1.131	1.121	0.770	0.843	10	
63) T,M TRANS-1,3-DICH...	0.950	0.736	0.712	0.780	0.739	0.768	0.735	0.742	1.166	8	
64) T,M 1,1,2-TRICHLOR...	0.858	0.685	1.010	0.857	0.861	0.823	0.871	0.823	0.512	8	
65) T,M TETRACHLOROETHENE	0.959	1.012	1.238	1.210	1.232	1.207	1.244	1.204	0.929	4	
66) T,M 1,3-DICHLOROPR...	0.444	0.452	0.533	0.537	0.560	0.532	0.526				
67) T,M 2-HEXANONE	0.866	0.895	0.878	0.937	0.924	0.995	0.962	0.972			
68) T,M CHLORODIBROMOM...											

Method Path : C:\msdchem\1\methods\
 Method File : V807G07T.M
 Title : Volatile Organics by GC/MS
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69) T,M 1,2-DIBROMOETHANE	0.778	0.778	0.829	0.827	0.859	0.822	0.837	0.819	3
70) P,T,MCHLOROBENZENE	2.468	2.379	2.591	2.371	2.534	2.343	2.481	2.356	2.299
71) T,M 1,1,1,2-TETRAC...	0.656	0.802	0.935	0.811	0.847	0.812	0.851	0.823	0.833
72) C,T,METHYLBENZENE	1.045	1.359	1.347	1.407	1.326	1.314	1.403	1.357	1.304
73) T,M M&P-XYLENE	1.874	1.784	1.883	1.457	1.723	1.607	1.663	1.613	1.547
74) T,M O-XYLENE	1.416	1.923	1.658	1.468	1.631	1.577	1.662	1.593	1.586
75) TOTAL XYLENES									
76) XYLENES, TOTAL									
77) T,M STYRENE	2.213	2.135	2.378	2.425	2.580	2.494	2.468		
78) T,P,MBROMOFORM	0.685	0.682	0.780	0.771	0.850	0.823	0.866	0.780	
79) T,M ISOPROPYLBENZENE	3.996	4.408	4.191	3.864	3.992	3.902	4.125	4.010	3.954
80) S 4-BROMOFLUOROB...	0.899	0.886	0.931	0.920	0.907	0.877	0.827	0.923	1.028
81) I 8260-1,4-DICHLOROB...	-----ISTD-----								
82) T,M BROMOBENZENE	1.771	1.973	1.778	1.706	1.849	1.802	1.746	1.580	
83) P,T,M1,1,2,2-TETRAC...	1.306	1.657	1.354	1.394	1.423	1.543	1.474	1.417	1.302
84) T,M 1,2,3-TRICHLOR...	0.363	0.406	0.444	0.451	0.417	0.414	0.388		
85) T,M TRANS-1,4-DICH...	0.348	0.340	0.406	0.397	0.391	0.388	0.351		
86) T,M N-PROPYLBENZENE	5.611	5.261	4.931	4.482	4.816	5.372	5.308	5.063	4.495
87) T,M 4-ETHYLTOLUENE	3.158	3.574	3.505	3.718	4.315	4.131	4.019	3.702	
88) T,M 2-CHLOROTOLUENE	3.201	2.665	2.969	3.246	3.123	3.047	2.706		
89) T,M 4-CHLOROTOLUENE	2.720	3.141	2.624	2.279	2.529	2.801	2.778	2.687	2.502
90) T,M 1,3,5-TRIMETHY...	3.867	3.807	3.435	3.610	3.675	3.475	3.380	3.046	
91) T,M TERT-BUTYLBENZENE	3.221	3.252	2.936	2.935	2.973	3.137	3.076	2.983	2.739
92) T,M 1,2,4-TRIMETHY...	2.625	2.839	2.820	2.828	2.905	3.236	3.136	3.026	2.692
93) T,M SEC-BUTYLBENZENE	3.802	4.371	3.365	3.355	3.540	3.728	3.634	3.513	3.190

Response Factor Report VOCMS7

Method Path : C:\msdchem\1\methods\
Method File : V807G07T.M
Title : Volatile Organics by GC/MS
Last Update : Wed Jul 08 09:30:56 2020

94) T,M 1,3-DICHLOROBE...	1.293	1.547	1.379	1.698	1.693	1.720	1.679	1.595	10	1.576
95) T,M P-ISOPROPYLITOL...	2.600	2.768	3.004	2.816	2.991	3.260	3.168	3.093	7	2.940
96) T,M DICYCLOPENTADIENE	3.672	3.402	3.624	3.309	3.633	3.794	3.503	3.291	8	3.455
97) T,M 1,4-DICHLOROBE...	1.953	1.973	1.991	1.725	1.640	1.844	1.771	1.733	8	1.799
98) M,T 1,2,3-TRIMETHY...	2.364	2.536	2.386	2.162	2.308	2.408	2.315	2.215	7	2.292
99) T,M 1,2-DICHLOROBE...	1.448	1.613	1.624	1.527	1.595	1.758	1.755	1.702	6	1.617
100) T,M N-BUTYLBENZENE	2.368	2.720	2.421	2.272	2.464	2.660	2.636	2.544	6	2.483
101) T,M 1,2-DIBROMO-3-...	0.397	0.331	0.418	0.469	0.445	0.442	0.442	0.405	10	0.415
102) T,M 1,3,5-TRICHLOR...	1.089	0.971	1.018	0.901	1.028	1.174	1.122	1.075	8	1.047
103) T,M 1,2,4-TRICHLOR...	0.733	0.850	0.810	0.898	0.988	0.936	0.927	0.814	9	0.869
104) T,M HEXACHLORO-1,3...	0.368	0.395	0.455	0.449	0.472	0.456	0.447	0.395	8	0.430
105) T,M NAPHTHALENE	2.283	2.683	2.561	2.612	2.747	3.087	2.935	2.946	8	2.721
106) T,M 1,2,3-TRICHLOR...	0.657	0.822	0.750	0.759	0.828	0.880	0.852	0.849	8	0.795
107) T,M 1-METHYLNAPHTH...	0.532	0.627	0.647	0.670	0.629				8	0.621
108) T,M 2-METHYLNAPHTH...	0.595	0.636	0.577	0.626	0.600	0.620	0.556		4	0.601

-----ISTD-----

109) I AP9-FLUOROBENZENE	0.124	0.155	0.161	0.166	0.174	0.156#	12
110) T BROMOETHANE	0.047	0.035	0.037	0.040	0.039	0.039#	10
111) T 2-PROPANOL	0.066	0.076	0.079	0.080	0.079	0.076#	7
112) T ACETONITRILE	0.537	0.544	0.566	0.555	0.554	0.551	2
113) T CHLOROPRENE	0.076	0.083	0.084	0.084	0.082	0.082#	4
114) T PROPIONITRILE	0.467	0.490	0.502	0.494	0.494	0.489	2
115) T ETHYL ACETATE	0.182	0.191	0.205	0.194	0.191	0.193#	4
116) T METHACRYLONITRILE	0.266	0.276	0.288	0.276	0.280	0.277#	2
117) T TERT-BUTYL FOR...							
118) T							

Method Path : C:\msdchem\1\methods\
Method File : V807G07T.M
Title : Volatile Organics by GC/MS
Last Update : Wed Jul 08 09:30:56 2020
118) T ISOBUTANOL

.37		0.034	0.035	0.035	0.036	0.036	0.035#	2
119) T	N-BUTANOL	0.015	0.018	0.019	0.021	0.021	0.019#	12
.64		0.342	0.369	0.387	0.394	0.397	0.378	6
120) T	METHYL METHACR...	0.007	0.007	0.007	0.008	0.007	0.007#	5
.01		0.130	0.127	0.139	0.134	0.137	0.133#	3
121) T	1,4-DIOXANE							
.84								
122) T	N-OCTANE							
.60								

123) I	AP9-CHLOROBENZENE-D5							
124) T	2-NITROPROPANE	0.435	0.461	0.469	0.488	0.504	0.471	5
.60		0.159	0.166	0.165	0.186	0.184	0.172#	6
125)	3,3-DIMETHYL-1...	1.131	1.228	1.247	1.260	1.280	1.229	4
.86								
126) T	ETHYL METHACRY...							
.71								

P								
127) I	AP9-1,4-DICHLOROB...	0.338	0.401	0.434	0.436	0.457	0.413	11
128) T	CIS-1,4-DICHLOR...	0.064	0.058	0.058	0.062	0.057	0.060#	5
.20		0.547	0.598	0.616	0.594	0.602	0.591	4
129) T	CYCLOHEXANONE	0.558	0.611	0.654	0.608	0.615	0.609	5
.17								
130) T	PENTACHLOROETHANE							
.42								
131) T	HEXACHLOROETHANE							
.63								

(#) = Out of Range

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_05.D
 Acq On : 7 Jul 2020 4:02 pm
 Operator : 988
 Sample : STD VMS 0.04 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 5 Sample Multiplier: 1
 InstName : VOCMS7

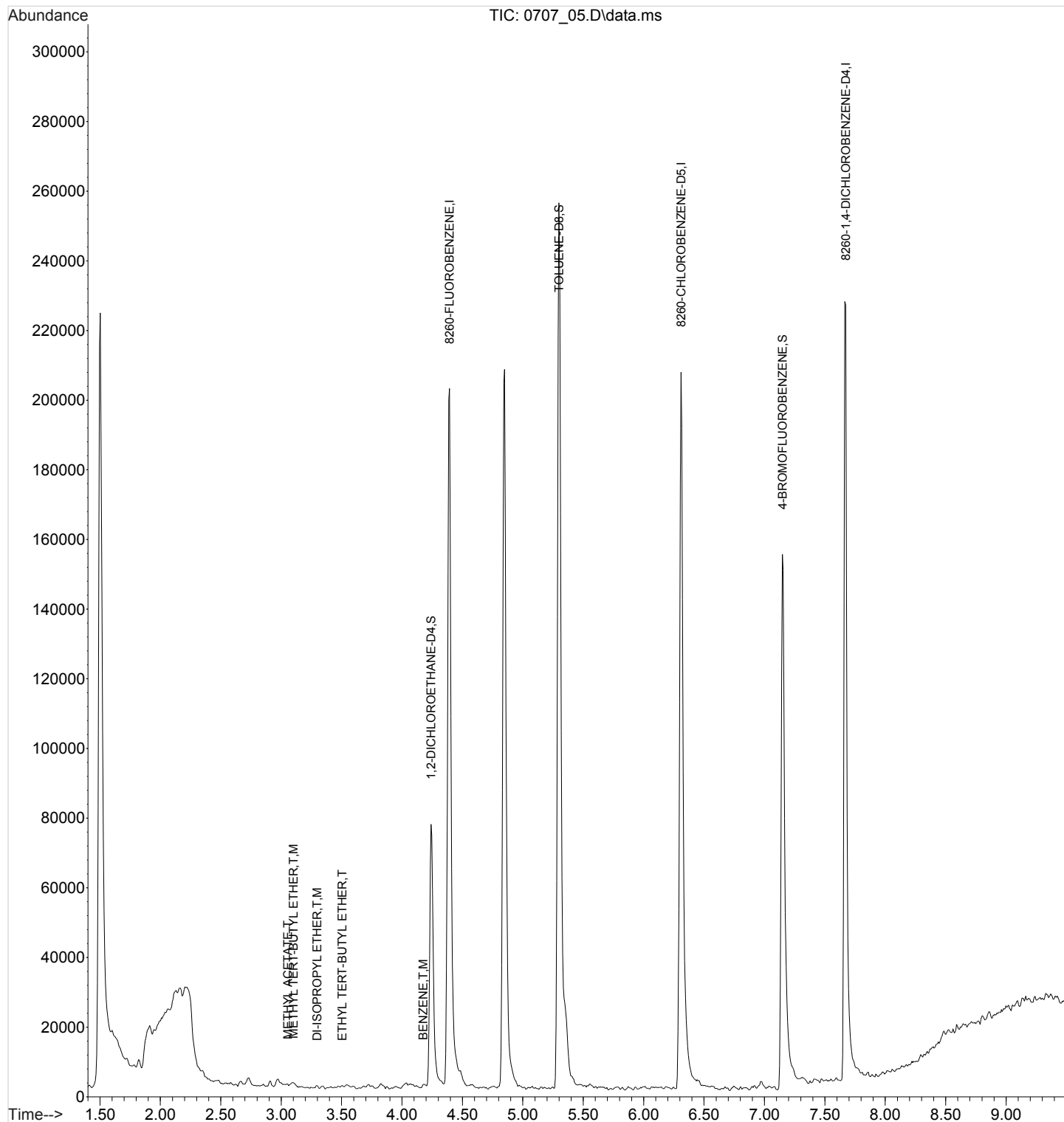
Quant Time: Jul 08 08:27:08 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	193397	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.309	82	74932	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.672	152	63855	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.39
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.31
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.67
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.241	65	56070	14.9275086	ppb	0.00
Spiked Amount	16.000		Recovery	=	93.30%	
61) TOLUENE-D8	5.299	98	196832	15.8390814	ppb	0.00
Spiked Amount	16.000	Range	90 - 115	Recovery	=	98.99%
80) 4-BROMOFLUOROBENZENE	7.149	95	67374	16.4043863	ppb	0.00
Spiked Amount	16.000	Range	80 - 120	Recovery	=	102.53%
Target Compounds						
24) METHYL ACETATE	3.054	43	276	0.0776470	ppb #	51
28) METHYL TERT-BUTYL ETHER	3.103	73	408	0.0346711	ppb #	1
32) DI-ISOPROPYL ETHER	3.298	45	457	0.0341863	ppb #	29
33) ETHYL TERT-BUTYL ETHER	3.505	59	350	0.0288727	ppb #	19
46) BENZENE	4.174	78	784	0.0450091	ppb #	66

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

Data Path : C:\msdchem\1\data\070720\
Data File : 0707_05.D
Acq On : 7 Jul 2020 4:02 pm
Operator : 988
Sample : STD VMS 0.04 PPB 20G07476
Misc : waterIS/SURR20G06381
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jul 08 08:27:08 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 08:24:40 2020
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_06.D
 Acq On : 7 Jul 2020 4:22 pm
 Operator : 988
 Sample : STD VMS 0.1 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:29:00 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	192197	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.309	82	74437	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.672	152	65528	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.39
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.31
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.67
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.241	65	59431	15.9210953	ppb	0.00
Spiked Amount	16.000		Recovery	=	99.51%	
61) TOLUENE-D8	5.299	98	195240	15.8154498	ppb	0.00
Spiked Amount	16.000	Range	90 - 115	Recovery	=	98.85%
80) 4-BROMOFLUOROBENZENE	7.149	95	65958	16.1664103	ppb	0.00
Spiked Amount	16.000	Range	80 - 120	Recovery	=	101.04%
Target Compounds						
					Qvalue	
4) PROPENE	1.600	41	784	0.3001245	ppb #	29
5) DICHLORODIFLUOROMETHANE	1.637	85	712	0.1127299	ppb #	42
6) CHLOROMETHANE	1.819	50	1488	0.2034812	ppb #	81
7) VINYL CHLORIDE	1.874	62	602	0.1007705	ppb #	84
8) 1,3-BUTADIENE	1.880	39	1575	0.3462438	ppb #	64
9) BROMOMETHANE	2.117	94	1519	0.2648129	ppb #	68
10) CHLOROETHANE	2.203	64	839	0.2398680	ppb #	43
11) VINYL BROMIDE	2.276	106	597	0.1532332	ppb #	64
12) TRICHLOROFLUOROMETHANE	2.294	101	696	0.1000368	ppb #	71
13) DICHLOROFLUOROMETHANE	2.330	67	2333	0.2392033	ppb #	92
15) ACROLEIN	2.847	56	336	0.7042475	ppb #	69
17) 1,1-DICHLOROETHENE	2.628	96	424	0.1131461	ppb #	64
18) 1,1,2-TRICHLOROTRIFLUO...	2.634	101	345	0.0972314	ppb #	73
19) ACETONE	2.999	43	2163	1.2046019	ppb #	88
20) IODOMETHANE	2.726	142	5250	0.7783783	ppb #	90
21) CARBON DISULFIDE	2.665	76	2064	0.1847944	ppb #	88
22) ALLYL CHLORIDE	2.908	76	1015	0.4606747	ppb #	73
23) METHYLENE CHLORIDE	2.969	84	837	0.1906001	ppb #	82
24) METHYL ACETATE	3.060	43	1367	0.3869788	ppb #	51
25) ACRYLONITRILE	3.474	53	649	0.3022410	ppb #	17
26) n-HEXANE	3.103	56	396	0.1624187	ppb #	52
27) TRANS-1,2-DICHLOROETHENE	3.066	96	396	0.0946142	ppb #	74
28) METHYL TERT-BUTYL ETHER	3.109	73	1407	0.1203109	ppb #	100
29) TERT-BUTYL ALCOHOL	3.139	59	525	0.5483986	ppb #	100
30) 1,1-DICHLOROETHANE	3.407	63	794	0.1026228	ppb #	43
31) VINYL ACETATE	3.535	43	2521	0.3540837	ppb #	76
32) DI-ISOPROPYL ETHER	3.304	45	1367	0.1028982	ppb #	70
33) ETHYL TERT-BUTYL ETHER	3.498	59	1012	0.0840045	ppb #	77
34) 2,2-DICHLOROPROPANE	3.754	77	937	0.1358453	ppb #	56
35) CIS-1,2-DICHLOROETHENE	3.705	96	259	0.0550133	ppb #	1
36) 2-BUTANONE (MEK)	4.022	43	1836	0.6360267	ppb #	48
37) BROMOCHLOROMETHANE	3.821	130	210	0.0713472	ppb #	80
38) TETRAHYDROFURAN	3.949	42	833	0.3347236	ppb #	27
39) CHLOROFORM	3.839	83	1410	0.1746218	ppb #	89
40) CYCLOHEXANE	3.821	84	424	0.0808022	ppb #	4
41) 1,1,1-TRICHLOROETHANE	3.967	97	628	0.0869691	ppb #	56
42) CARBON TETRACHLORIDE	3.930	117	669	0.1002810	ppb #	92
43) 1,1-DICHLOROPROPENE	4.028	75	454	0.0788242	ppb #	63

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_06.D
 Acq On : 7 Jul 2020 4:22 pm
 Operator : 988
 Sample : STD VMS 0.1 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:29:00 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
44) 2,2,4-TRIMETHYLPENTANE	4.064	57	1337	0.1992748	ppb	#	80
46) BENZENE	4.174	78	1937	0.1118966	ppb	#	66
47) TERT-AMYL METHYL ETHER	4.204	73	1396	0.1177529	ppb	#	49
49) 1,2-DICHLOROETHANE	4.277	62	491	0.0921506	ppb	#	75
50) T-AMYL ALCOHOL	4.289	59	276	0.3345374	ppb	#	39
51) TRICHLOROETHENE	4.496	132	220	0.0457403	ppb	#	1
52) METHYL CYCLOHEXANE	4.490	83	788	0.1480280	ppb	#	1
53) TERT-AMYL ETHYL ETHER	4.587	59	742	0.0825573	ppb	#	61
54) 1,2-DICHLOROPROPANE	4.849	62	1167	0.4135567	ppb	#	1
55) DIBROMOMETHANE	4.745	93	185	0.0737803	ppb	#	1
56) BROMODICHLOROMETHANE	4.819	83	529	0.0933609	ppb	#	85
57) 2-CHLOROETHYL VINYL ETHER	5.147	63	878	0.2974477	ppb	#	49
58) CIS-1,3-DICHLOROPROPENE	5.196	75	474	0.0753462	ppb	#	41
60) 4-METHYL-2-PENTANONE (...)	5.555	43	3593	0.5790426	ppb	#	87
62) TOLUENE	5.336	91	2478	0.1324788	ppb	#	76
64) 1,1,2-TRICHLOROETHANE	5.701	97	178	0.0490616	ppb	#	12
65) TETRACHLOROETHENE	5.591	164	399	0.0996153	ppb	#	42
66) 1,3-DICHLOROPROPANE	5.889	76	446	0.0775902	ppb	#	92
67) 2-HEXANONE	6.102	58	306	0.1232929	ppb	#	1
68) CHLORODIBROMOMETHANE	5.828	129	275	0.0630680	ppb	#	21
70) CHLOROBENZENE	6.321	112	1148	0.0973707	ppb	#	1
71) 1,1,1,2-TETRACHLOROETHANE	6.358	133	305	0.0774314	ppb	#	100
72) ETHYLBENZENE	6.327	106	486	0.0785447	ppb	#	2
73) M&P-XYLENE	6.425	106	1744	0.2175567	ppb	#	94
74) O-XYLENE	6.729	106	659	0.0868694	ppb	#	44
77) STYRENE	6.796	104	1036	0.0932991	ppb	#	64
79) ISOPROPYLBENZENE	6.936	105	1859	0.1000903	ppb	#	72
82) BROMOBENZENE	7.234	77	1376	0.1969492	ppb	#	42
83) 1,1,2,2-TETRACHLOROETHANE	7.258	83	535	0.0918048	ppb	#	85
86) N-PROPYLBENZENE	7.228	91	2298	0.1165116	ppb	#	82
87) 4-ETHYLTOLUENE	7.288	105	1165	0.0765183	ppb	#	89
88) 2-CHLOROTOLUENE	7.325	91	1550	0.1274622	ppb	#	78
89) 4-CHLOROTOLUENE	7.416	91	1114	0.1075385	ppb	#	81
90) 1,3,5-TRIMETHYLBENZENE	7.325	105	1973	0.1334657	ppb	#	78
91) TERT-BUTYLBENZENE	7.477	119	1319	0.1083126	ppb	#	51
92) 1,2,4-TRIMETHYLBENZENE	7.507	105	1075	0.0903640	ppb	#	80
93) SEC-BUTYLBENZENE	7.544	105	1557	0.1074006	ppb	#	61
94) 1,3-DICHLOROBENZENE	7.647	146	553	0.0795397	ppb	#	21
95) P-ISOPROPYLTOLUENE	7.599	119	1065	0.0869493	ppb	#	50
96) DICYCLOPENTADIENE	7.599	66	1504	0.1010927	ppb	#	71
97) 1,4-DICHLOROBENZENE	7.678	146	800	0.1204461	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.672	105	968	0.1024086	ppb	#	100
99) 1,2-DICHLOROBENZENE	7.842	146	593	0.0907814	ppb	#	74
100) N-BUTYLBENZENE	7.769	91	970	0.0960058	ppb	#	79
102) 1,3,5-TRICHLOROBENZENE	8.146	180	446	0.1058844	ppb	#	79
105) NAPHTHALENE	8.505	128	935	0.0831033	ppb	#	73
106) 1,2,3-TRICHLOROBENZENE	8.554	180	269	0.0793378	ppb	#	11
108) 2-METHYLNAPHTHALENE	8.955	142	260	0.1100712	ppb	#	49

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

[illegible]

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_07.D
 Acq On : 7 Jul 2020 4:42 pm
 Operator : 988
 Sample : STD VMS 0.2 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 7 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:29:46 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.392	96	188604	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.309	82	71127	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.672	152	64952	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.39
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.31
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.67
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.240	65	58591	15.9950838	ppb	0.00
Spiked Amount 16.000			Recovery	= 99.97%		
61) TOLUENE-D8	5.299	98	189607	16.0739083	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	= 100.46%		
80) 4-BROMOFLUOROBENZENE	7.148	95	66250	16.9936383	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	= 106.21%		
Target Compounds						
					Qvalue	
4) PROPENE	1.600	41	1254	0.4891912	ppb	89
5) DICHLORODIFLUOROMETHANE	1.637	85	1478	0.2384675	ppb	91
6) CHLOROMETHANE	1.813	50	1941	0.2704846	ppb #	91
7) VINYL CHLORIDE	1.868	62	1720	0.2934006	ppb #	93
8) 1,3-BUTADIENE	1.880	39	2059	0.4612682	ppb #	64
9) BROMOMETHANE	2.111	94	2317	0.4116263	ppb #	80
10) CHLOROETHANE	2.196	64	1791	0.5217970	ppb #	41
11) VINYL BROMIDE	2.275	106	812	0.2123882	ppb	97
12) TRICHLOROFLUOROMETHANE	2.294	101	1601	0.2344971	ppb #	86
13) DICHLOROFLUOROMETHANE	2.324	67	3253	0.3398851	ppb #	76
14) ETHYL ETHER	2.494	59	600	0.2084749	ppb #	71
15) ACROLEIN	2.847	56	354	0.7561100	ppb #	20
16) ETHANOL	2.592	45	678	8.3728036	ppb #	41
17) 1,1-DICHLOROETHENE	2.628	96	747	0.2031374	ppb	86
18) 1,1,2-TRICHLOROTRIFLUO...	2.640	101	981	0.2817424	ppb #	90
19) ACETONE	3.005	43	2591	1.4704496	ppb	98
20) IODOMETHANE	2.732	142	8598	1.2990461	ppb #	97
21) CARBON DISULFIDE	2.665	76	3263	0.2977090	ppb #	86
22) ALLYL CHLORIDE	2.908	76	2297	1.0623926	ppb	95
23) METHYLENE CHLORIDE	2.969	84	1907	0.4425313	ppb	96
24) METHYL ACETATE	3.066	43	2409	0.6949461	ppb #	93
25) ACRYLONITRILE	3.474	53	1764	0.8371493	ppb #	45
26) n-HEXANE	3.091	56	826	0.3452365	ppb #	52
27) TRANS-1,2-DICHLOROETHENE	3.066	96	877	0.2135289	ppb	83
28) METHYL TERT-BUTYL ETHER	3.109	73	2292	0.1997199	ppb	85
29) TERT-BUTYL ALCOHOL	3.139	59	1031	1.0974669	ppb #	100
30) 1,1-DICHLOROETHANE	3.407	63	1540	0.2028335	ppb	95
31) VINYL ACETATE	3.535	43	6103	0.8735186	ppb #	76
32) DI-ISOPROPYL ETHER	3.297	45	2333	0.1789574	ppb	98
33) ETHYL TERT-BUTYL ETHER	3.498	59	2574	0.2177340	ppb #	84
34) 2,2-DICHLOROPROPANE	3.760	77	2072	0.3061191	ppb #	83
35) CIS-1,2-DICHLOROETHENE	3.705	96	921	0.1993532	ppb #	77
36) 2-BUTANONE (MEK)	4.021	43	1948	0.6876815	ppb	93
37) BROMOCHLOROMETHANE	3.821	130	464	0.1606466	ppb #	70
38) TETRAHYDROFURAN	3.954	42	931	0.3812297	ppb	86
39) CHLOROFORM	3.839	83	1966	0.2481181	ppb #	89
40) CYCLOHEXANE	3.821	84	1359	0.2639200	ppb #	76
41) 1,1,1-TRICHLOROETHANE	3.961	97	1455	0.2053355	ppb #	87

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_07.D
 Acq On : 7 Jul 2020 4:42 pm
 Operator : 988
 Sample : STD VMS 0.2 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 7 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:29:46 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
42) CARBON TETRACHLORIDE	3.930	117	1343	0.2051465	ppb		88
43) 1,1-DICHLOROPROPENE	4.027	75	1098	0.1942682	ppb	#	62
44) 2,2,4-TRIMETHYLPENTANE	4.070	57	1730	0.2627621	ppb		94
45) n-Heptane	4.113	71	420	0.2572674	ppb	#	65
46) BENZENE	4.173	78	3881	0.2284687	ppb		98
47) TERT-AMYL METHYL ETHER	4.198	73	2352	0.2021712	ppb	#	72
49) 1,2-DICHLOROETHANE	4.283	62	1027	0.1964186	ppb	#	75
50) T-AMYL ALCOHOL	4.289	59	735	0.9078594	ppb	#	44
51) TRICHLOROETHENE	4.502	132	795	0.1684376	ppb	#	66
52) METHYL CYCLOHEXANE	4.484	83	1220	0.2335464	ppb	#	44
53) TERT-AMYL ETHYL ETHER	4.575	59	1674	0.1898029	ppb		89
54) 1,2-DICHLOROPROPANE	4.794	62	432	0.1560068	ppb	#	66
55) DIBROMOMETHANE	4.745	93	354	0.1438692	ppb	#	41
56) BROMODICHLOROMETHANE	4.818	83	1281	0.2303850	ppb	#	95
57) 2-CHLOROETHYL VINYL ETHER	5.141	63	2075	0.7163576	ppb	#	91
58) CIS-1,3-DICHLOROPROPENE	5.202	75	1084	0.1755934	ppb	#	56
60) 4-METHYL-2-PENTANONE (...)	5.548	43	6360	1.0726667	ppb		88
62) TOLUENE	5.335	91	3861	0.2160227	ppb		97
63) TRANS-1,3-DICHLOROPROPENE	5.627	75	579	0.1266702	ppb	#	68
64) 1,1,2-TRICHLOROETHANE	5.688	97	845	0.2437435	ppb	#	78
65) TETRACHLOROETHENE	5.591	164	609	0.1591201	ppb	#	60
66) 1,3-DICHLOROPROPANE	5.883	76	900	0.1638585	ppb	#	38
67) 2-HEXANONE	6.096	58	1225	0.5165435	ppb	#	1
68) CHLORODIBROMOMETHANE	5.822	129	770	0.1848083	ppb	#	73
69) 1,2-DIBROMOETHANE	6.023	107	481	0.1295867	ppb		85
70) CHLOROBENZENE	6.327	112	2115	0.1877375	ppb	#	8
71) 1,1,1,2-TETRACHLOROETHANE	6.357	133	713	0.1894355	ppb	#	100
72) ETHYLBENZENE	6.321	106	1208	0.2043158	ppb		74
73) M&P-XYLENE	6.418	106	3172	0.4141080	ppb		93
74) O-XYLENE	6.729	106	1710	0.2359022	ppb		82
77) STYRENE	6.783	104	1580	0.1489117	ppb	#	78
78) BROMOFORM	6.802	173	401	0.1156040	ppb	#	65
79) ISOPROPYLBENZENE	6.929	105	3919	0.2208219	ppb	#	88
82) BROMOBENZENE	7.233	77	1438	0.2076486	ppb	#	87
83) 1,1,2,2-TETRACHLOROETHANE	7.264	83	1345	0.2328456	ppb	#	70
84) 1,2,3-TRICHLOROPROPANE	7.349	110	208	0.1153339	ppb	#	71
86) N-PROPYLBENZENE	7.227	91	4271	0.2184656	ppb		96
87) 4-ETHYLTOLUENE	7.288	105	2564	0.1698994	ppb		98
88) 2-CHLOROTOLUENE	7.331	91	3115	0.2584295	ppb	#	77
89) 4-CHLOROTOLUENE	7.416	91	2550	0.2483439	ppb	#	87
90) 1,3,5-TRIMETHYLBENZENE	7.325	105	3140	0.2142924	ppb	#	82
91) TERT-BUTYLBENZENE	7.477	119	2640	0.2187120	ppb		89
92) 1,2,4-TRIMETHYLBENZENE	7.507	105	2305	0.1954756	ppb		88
93) SEC-BUTYLBENZENE	7.544	105	3549	0.2469781	ppb	#	92
94) 1,3-DICHLOROBENZENE	7.647	146	1050	0.1523640	ppb		97
95) P-ISOPROPYLTOLUENE	7.598	119	2247	0.1850776	ppb	#	94
96) DICYCLOPENTADIENE	7.598	66	2762	0.1872966	ppb		98
97) 1,4-DICHLOROBENZENE	7.672	146	1602	0.2433322	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.672	105	2059	0.2197617	ppb		93
99) 1,2-DICHLOROBENZENE	7.836	146	1310	0.2023243	ppb	#	77
100) N-BUTYLBENZENE	7.763	91	2208	0.2204750	ppb	#	72
102) 1,3,5-TRICHLOROBENZENE	8.140	180	788	0.1887373	ppb	#	71
103) 1,2,4-TRICHLOROBENZENE	8.377	180	595	0.1632664	ppb	#	85
104) HEXACHLORO-1,3-BUTADIENE	8.341	225	299	0.1639066	ppb	#	57
105) NAPHTHALENE	8.499	128	2178	0.1952986	ppb	#	73

Data Path : C:\msdchem\1\data\070720\
Data File : 0707_07.D
Acq On : 7 Jul 2020 4:42 pm
Operator : 988
Sample : STD VMS 0.2 PPB 20G07476
Misc : waterIS/SURR20G06381
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS7

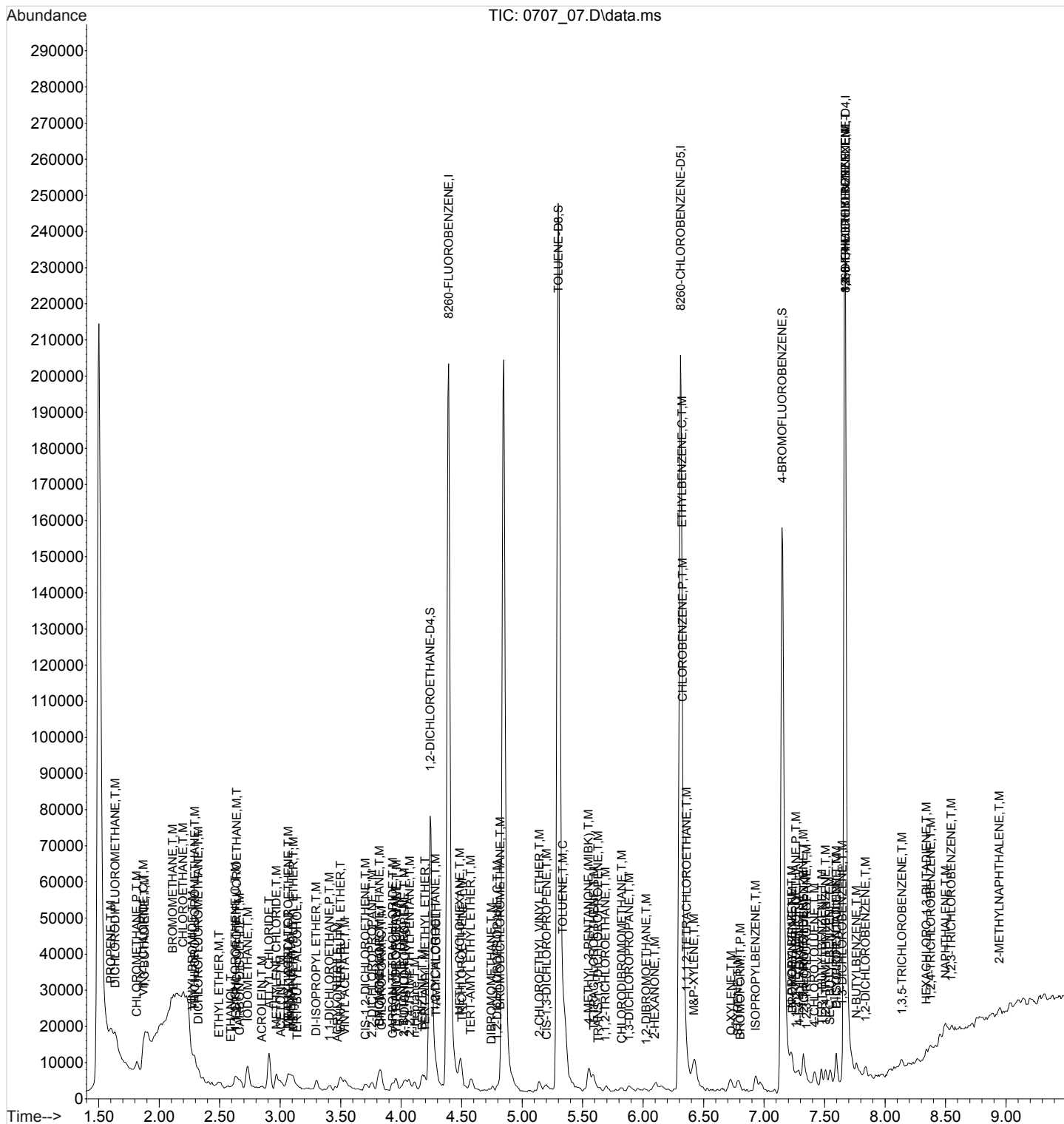
Quant Time: Jul 08 08:29:46 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 08:24:40 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
106) 1,2,3-TRICHLOROBENZENE	8.548	180	667	0.1984669	ppb	#	59
108) 2-METHYLNAPHTHALENE	8.943	142	726	0.3100783	ppb	#	60

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

Data Path : C:\msdchem\1\data\070720\
Data File : 0707_07.D
Acq On : 7 Jul 2020 4:42 pm
Operator : 988
Sample : STD VMS 0.2 PPB 20G07476
Misc : waterIS/SURR20G06381
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jul 08 08:29:46 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 08:24:40 2020
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_08.D
 Acq On : 7 Jul 2020 5:02 pm
 Operator : 988
 Sample : STD VMS 0.5 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 8 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:31:53 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.392	96	186092	16.0000000	ppb	# 0.00
59) 8260-CHLOROBENZENE-D5	6.309	82	71083	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZENE...	7.672	152	64407	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.39
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.31
127) AP9-1,4-DICHLOROBENZENE...	0.000	152	0m	16.0000000	ppb	-7.67
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.240	65	57184	15.8217069	ppb	0.00
Spiked Amount 16.000			Recovery	=	98.89%	
61) TOLUENE-D8	5.299	98	190808	16.1857356	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	101.16%	
80) 4-BROMOFLUOROBENZENE	7.148	95	65426	16.7926641	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	=	104.95%	
Target Compounds						
					Qvalue	
4) PROPENE	1.600	41	1966	0.7772984	ppb	# 73
5) DICHLORODIFLUOROMETHANE	1.637	85	3102	0.5072472	ppb	93
6) CHLOROMETHANE	1.813	50	4085	0.5769422	ppb	# 97
7) VINYL CHLORIDE	1.868	62	3093	0.5347313	ppb	# 91
8) 1,3-BUTADIENE	1.880	39	4035	0.9161444	ppb	# 63
9) BROMOMETHANE	2.111	94	3466	0.6240635	ppb	# 71
10) CHLOROETHANE	2.196	64	3087	0.9115192	ppb	# 76
11) VINYL BROMIDE	2.281	106	2498	0.6622011	ppb	99
12) TRICHLOROFLUOROMETHANE	2.294	101	3766	0.5590486	ppb	# 76
13) DICHLOROFLUOROMETHANE	2.324	67	5014	0.5309525	ppb	# 85
14) ETHYL ETHER	2.494	59	1153	0.4060272	ppb	# 56
15) ACROLEIN	2.835	56	523	1.1321569	ppb	# 1
16) ETHANOL	2.598	45	2581	32.3037105	ppb	# 41
17) 1,1-DICHLOROETHENE	2.628	96	1859	0.5123561	ppb	81
18) 1,1,2-TRICHLOROTRIFLUO...	2.640	101	1725	0.5021061	ppb	# 98
19) ACETONE	2.999	43	5345	3.0743523	ppb	89
20) IODOMETHANE	2.726	142	16582	2.5391434	ppb	95
21) CARBON DISULFIDE	2.665	76	6254	0.5783037	ppb	# 90
22) ALLYL CHLORIDE	2.908	76	5264	2.4675339	ppb	97
23) METHYLENE CHLORIDE	2.969	84	2812	0.6613507	ppb	94
24) METHYL ACETATE	3.060	43	7551	2.2077099	ppb	# 98
25) ACRYLONITRILE	3.456	53	4220	2.0297380	ppb	97
26) n-HEXANE	3.097	56	1952	0.8268747	ppb	# 73
27) TRANS-1,2-DICHLOROETHENE	3.066	96	2219	0.5475673	ppb	93
28) METHYL TERT-BUTYL ETHER	3.109	73	6074	0.5364197	ppb	87
29) TERT-BUTYL ALCOHOL	3.139	59	1974	2.1296248	ppb	# 100
30) 1,1-DICHLOROETHANE	3.407	63	3896	0.5200691	ppb	99
31) VINYL ACETATE	3.529	43	15967	2.3161959	ppb	# 88
32) DI-ISOPROPYL ETHER	3.297	45	6498	0.5051703	ppb	89
33) ETHYL TERT-BUTYL ETHER	3.498	59	6139	0.5263062	ppb	93
34) 2,2-DICHLOROPROPANE	3.754	77	3306	0.4950245	ppb	98
35) CIS-1,2-DICHLOROETHENE	3.705	96	2106	0.4620035	ppb	95
36) 2-BUTANONE (MEK)	4.015	43	6548	2.3427731	ppb	96
37) BROMOCHLOROMETHANE	3.815	130	1276	0.4477415	ppb	86
38) TETRAHYDROFURAN	3.954	42	1735	0.7200451	ppb	# 68
39) CHLOROFORM	3.839	83	4860	0.6216335	ppb	# 87
40) CYCLOHEXANE	3.821	84	2549	0.5017020	ppb	# 90
41) 1,1,1-TRICHLOROETHANE	3.967	97	3189	0.4561196	ppb	97

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_08.D
 Acq On : 7 Jul 2020 5:02 pm
 Operator : 988
 Sample : STD VMS 0.5 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 8 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:31:53 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
42) CARBON TETRACHLORIDE	3.930	117	3109	0.4813179	ppb		97
43) 1,1-DICHLOROPROPENE	4.034	75	2838	0.5089029	ppb	#	82
44) 2,2,4-TRIMETHYLPENTANE	4.070	57	4276	0.6582297	ppb		100
45) n-Heptane	4.107	71	982	0.6096354	ppb	#	77
46) BENZENE	4.173	78	8776	0.5236040	ppb		99
47) TERT-AMYL METHYL ETHER	4.198	73	6232	0.5429161	ppb	#	83
49) 1,2-DICHLOROETHANE	4.283	62	2713	0.5258783	ppb	#	75
50) T-AMYL ALCOHOL	4.289	59	1884	2.3584972	ppb	#	51
51) TRICHLOROETHENE	4.496	132	2596	0.5574421	ppb	#	79
52) METHYL CYCLOHEXANE	4.490	83	2917	0.5659435	ppb	#	74
53) TERT-AMYL ETHYL ETHER	4.575	59	3908	0.4490815	ppb		86
54) 1,2-DICHLOROPROPANE	4.794	62	1375	0.5032523	ppb	#	81
55) DIBROMOMETHANE	4.745	93	1026	0.4226056	ppb		90
56) BROMODICHLOROMETHANE	4.818	83	2834	0.5165687	ppb	#	85
57) 2-CHLOROETHYL VINYL ETHER	5.135	63	6109	2.1374949	ppb	#	90
58) CIS-1,3-DICHLOROPROPENE	5.196	75	2605	0.4276710	ppb	#	78
60) 4-METHYL-2-PENTANONE (...)	5.548	43	15208	2.5665428	ppb		93
62) TOLUENE	5.335	91	10032	0.5616372	ppb		90
63) TRANS-1,3-DICHLOROPROPENE	5.597	75	2102m	0.4601479	ppb		
64) 1,1,2-TRICHLOROETHANE	5.694	97	1634	0.4716254	ppb		92
65) TETRACHLOROETHENE	5.585	164	2243	0.5864158	ppb		88
66) 1,3-DICHLOROPROPANE	5.877	76	2750	0.5009885	ppb		90
67) 2-HEXANONE	6.090	58	4930	2.0801110	ppb		96
68) CHLORODIBROMOMETHANE	5.822	129	1989	0.4776770	ppb	#	93
69) 1,2-DIBROMOETHANE	5.999	107	1728	0.4658306	ppb		96
70) CHLOROBENZENE	6.321	112	5755	0.5111575	ppb	#	76
71) 1,1,1,2-TETRACHLOROETHANE	6.351	133	2076	0.5519096	ppb	#	100
72) ETHYLBENZENE	6.321	106	2993	0.5065361	ppb		94
73) M&P-XYLENE	6.418	106	8367	1.0929968	ppb		99
74) O-XYLENE	6.716	106	3684	0.5085389	ppb		97
77) STYRENE	6.777	104	4916	0.4636097	ppb		95
78) BROMOFORM	6.795	173	1521	0.4387596	ppb		90
79) ISOPROPYLBENZENE	6.929	105	9310	0.5249104	ppb	#	92
82) BROMOBENZENE	7.227	77	3971	0.5782683	ppb	#	82
83) 1,1,2,2-TETRACHLOROETHANE	7.258	83	2726	0.4759169	ppb	#	97
84) 1,2,3-TRICHLOROPROPANE	7.349	110	731	0.4087620	ppb		73
85) TRANS-1,4-DICHLORO-2-B...	7.373	53	700	0.4280256	ppb	#	51
86) N-PROPYLBENZENE	7.221	91	9924	0.5119172	ppb		95
87) 4-ETHYLTOLUENE	7.282	105	7194	0.4807328	ppb		94
88) 2-CHLOROTOLUENE	7.325	91	6442	0.5389695	ppb		91
89) 4-CHLOROTOLUENE	7.410	91	5282	0.5187655	ppb	#	95
90) 1,3,5-TRIMETHYLBENZENE	7.319	105	7662	0.5273254	ppb		98
91) TERT-BUTYLBENZENE	7.471	119	5909	0.4936762	ppb		95
92) 1,2,4-TRIMETHYLBENZENE	7.507	105	5676	0.4854264	ppb		93
93) SEC-BUTYLBENZENE	7.544	105	6773	0.4753275	ppb		97
94) 1,3-DICHLOROBENZENE	7.647	146	3114	0.4556917	ppb		87
95) P-ISOPROPYLTOLUENE	7.592	119	6047	0.5022851	ppb		94
96) DICYCLOPENTADIENE	7.599	66	7295	0.4988742	ppb		95
97) 1,4-DICHLOROBENZENE	7.672	146	4008	0.6139376	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.672	105	4802	0.5168651	ppb		98
99) 1,2-DICHLOROBENZENE	7.836	146	3269	0.5091562	ppb		88
100) N-BUTYLBENZENE	7.763	91	4873	0.4907000	ppb	#	86
101) 1,2-DIBROMO-3-CHLOROPR...	8.122	157	800	0.4758481	ppb	#	85
102) 1,3,5-TRICHLOROBENZENE	8.140	180	2049	0.4949177	ppb	#	86
103) 1,2,4-TRICHLOROBENZENE	8.377	180	1711	0.4734665	ppb		93

Data Path : C:\msdchem\1\data\070720\
Data File : 0707_08.D
Acq On : 7 Jul 2020 5:02 pm
Operator : 988
Sample : STD VMS 0.5 PPB 20G07476
Misc : waterIS/SURR20G06381
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS7

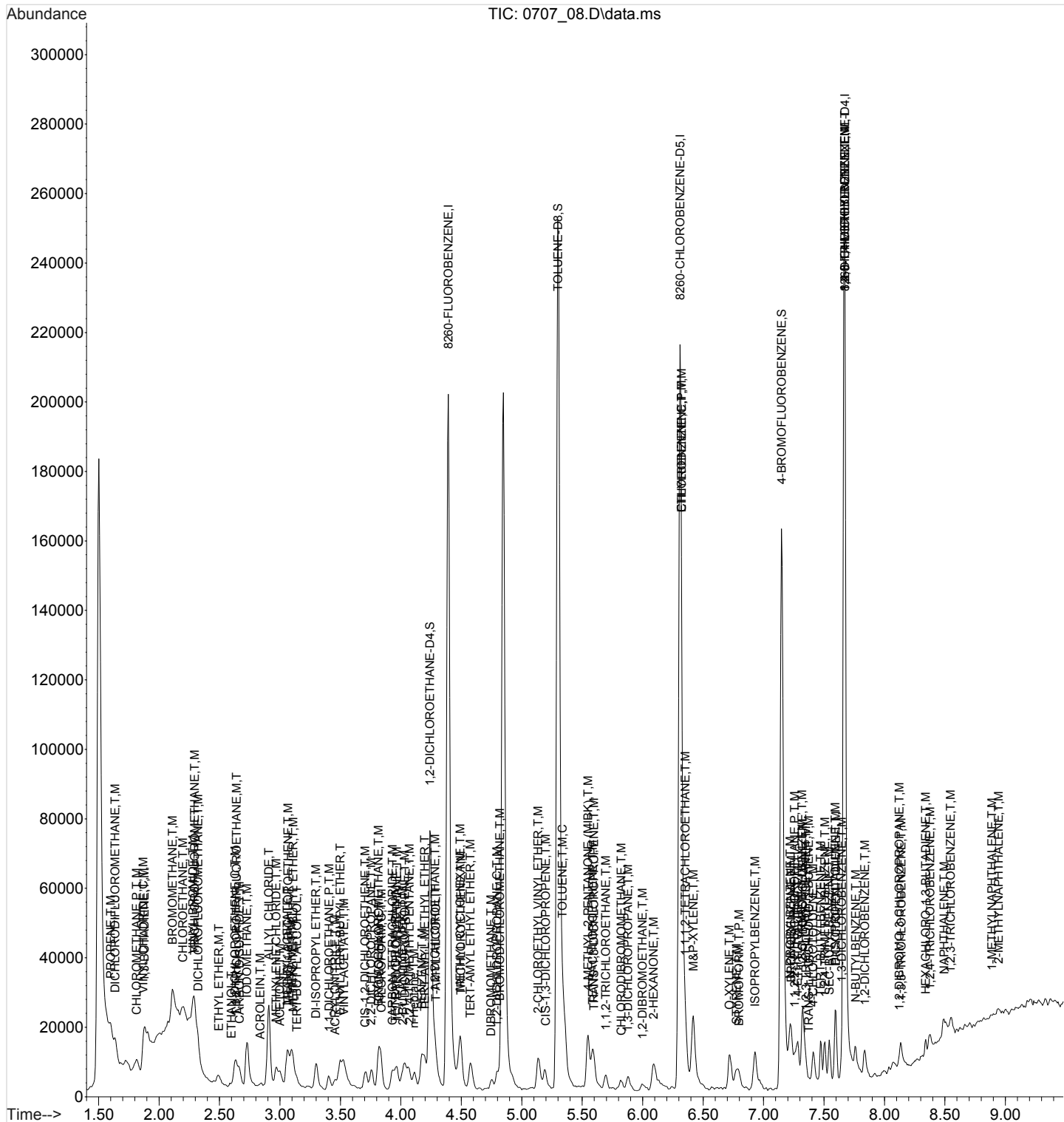
Quant Time: Jul 08 08:31:53 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 08:24:40 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) HEXACHLORO-1,3-BUTADIENE	8.341	225	795	0.4394928	ppb #	72
105) NAPHTHALENE	8.493	128	5155	0.4661540	ppb	96
106) 1,2,3-TRICHLOROBENZENE	8.548	180	1509	0.4528048	ppb	93
107) 1-METHYLNAPHTHALENE	8.888	142	820	0.3828995	ppb #	78
108) 2-METHYLNAPHTHALENE	8.943	142	1197	0.5155709	ppb #	76

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

Data Path : C:\msdchem\1\data\070720\
Data File : 0707_08.D
Acq On : 7 Jul 2020 5:02 pm
Operator : 988
Sample : STD VMS 0.5 PPB 20G07476
Misc : waterIS/SURR20G06381
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS7

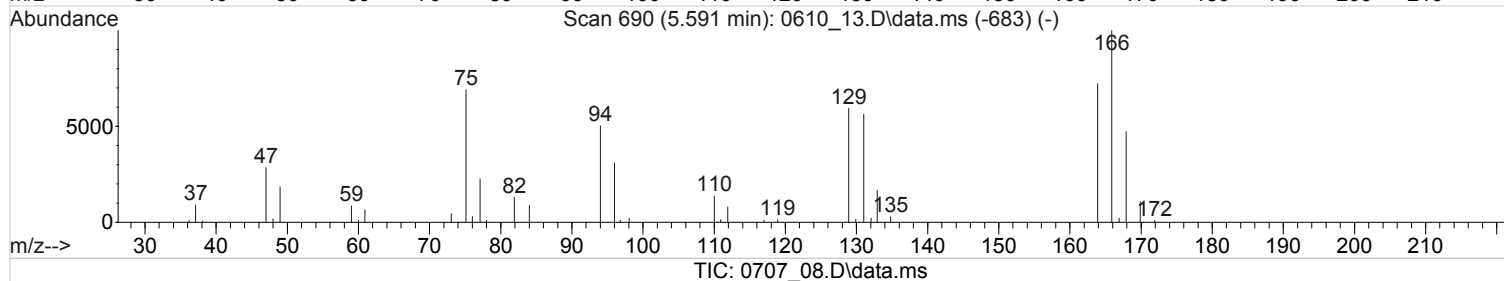
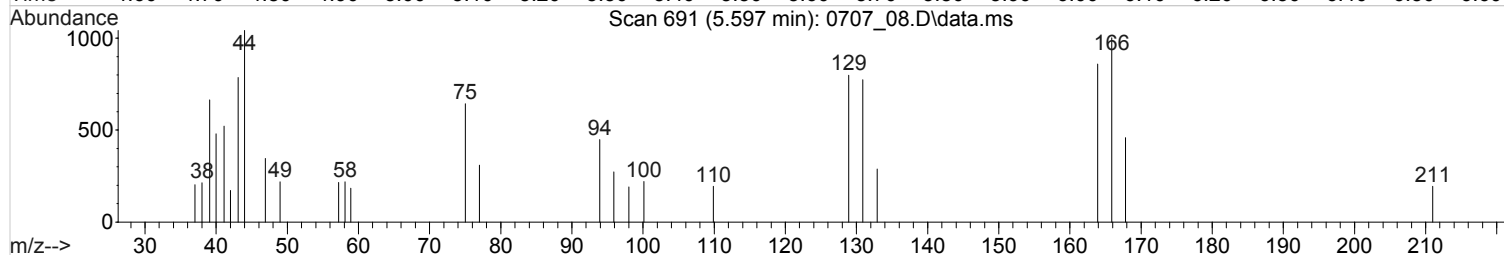
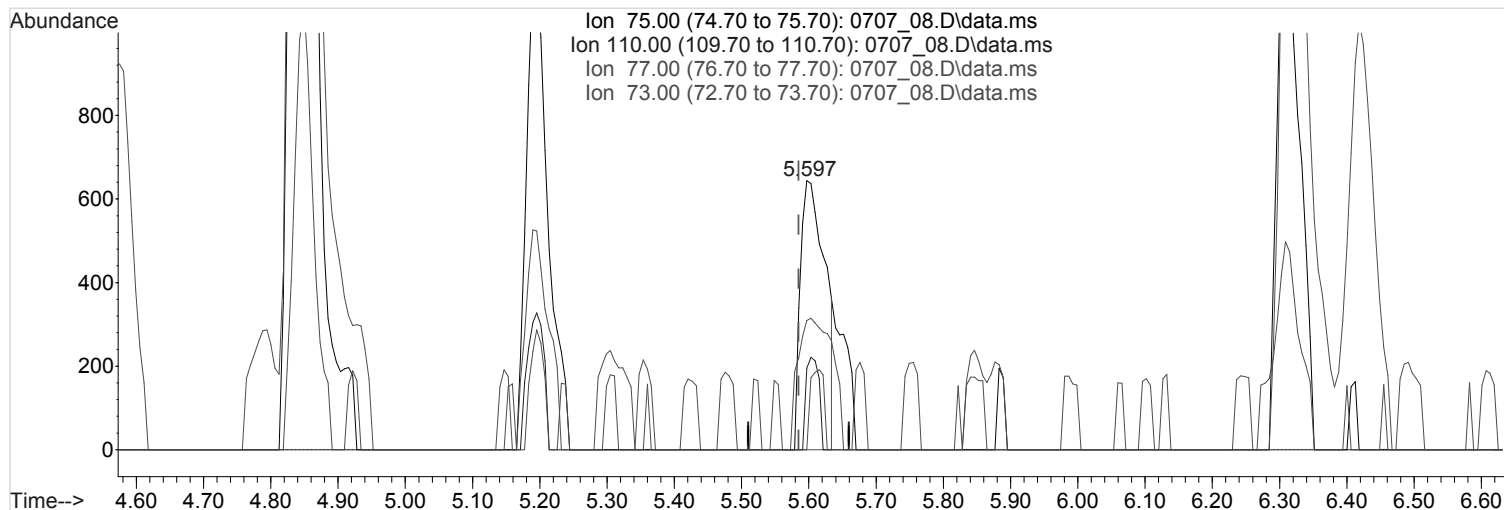
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Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 08:24:40 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_08.D
 Acq On : 7 Jul 2020 5:02 pm
 Operator : 988
 Sample : STD VMS 0.5 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 8 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:25:10 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration



(63) TRANS-1,3-DICHLOROPROPENE (T,M)

5.597min (+0.012) 0.3583549 ppb

Qvalue = 69

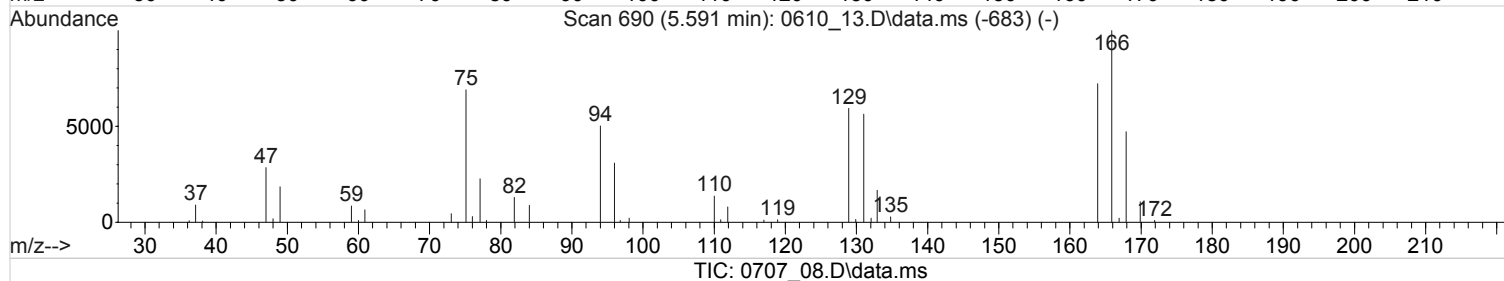
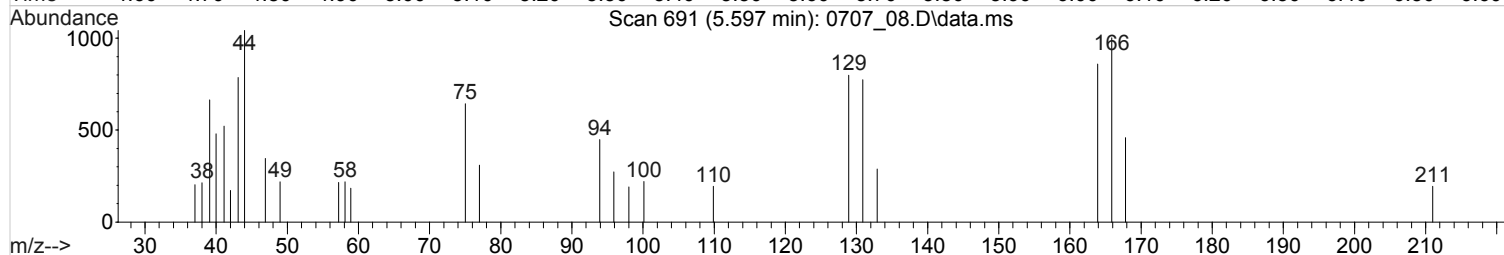
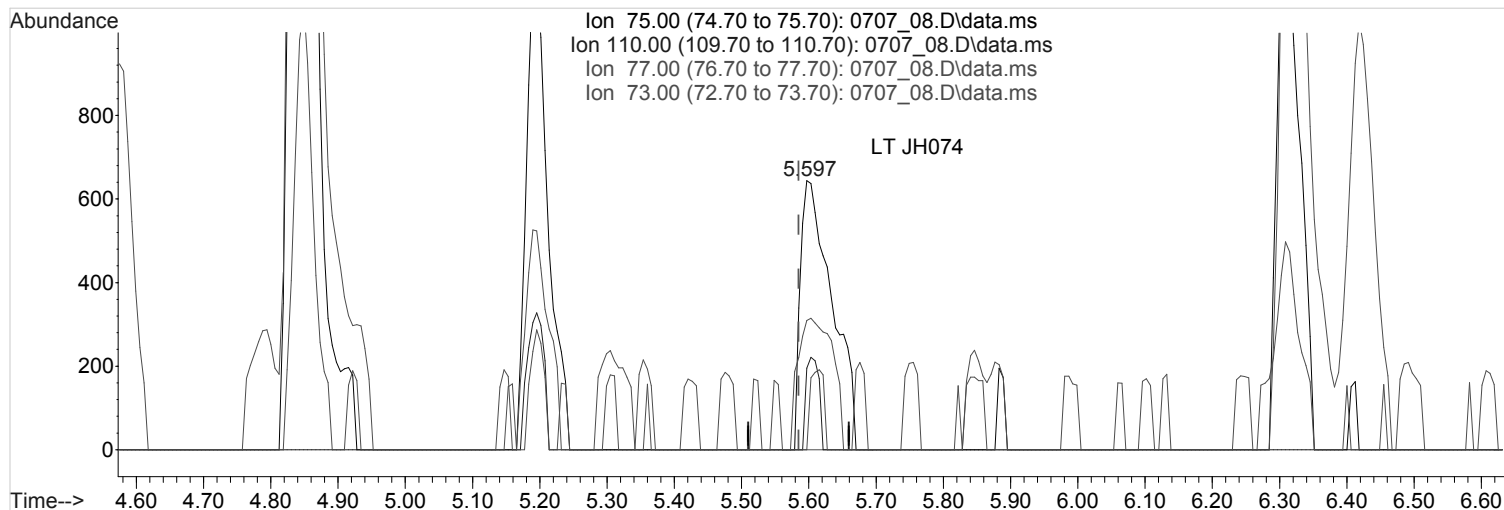
response 1637

Ion	Exp%	Act%
75.00	100	100
110.00	25.70	17.84#
77.00	35.40	60.66#
73.00	7.60	16.19#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_08.D
 Acq On : 7 Jul 2020 5:02 pm
 Operator : 988
 Sample : STD VMS 0.5 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 8 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:25:10 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration



(63) TRANS-1,3-DICHLOROPROPENE (T,M)

5.597min (+0.012) 0.4601479 ppb m

response 2102

Ion	Exp%	Act%
75.00	100	100
110.00	25.70	13.89#
77.00	35.40	47.24#
73.00	7.60	12.61#

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_09.D
 Acq On : 7 Jul 2020 5:22 pm
 Operator : 988
 Sample : STD VMS 1 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 9 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:35:01 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	188536	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.309	82	73170	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.665	152	64900	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.39
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.31
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.67
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.240	65	60778	16.5981094	ppb	0.00
Spiked Amount	16.000		Recovery	=	103.74%	
61) TOLUENE-D8	5.299	98	204955	16.8898998	ppb	0.00
Spiked Amount	16.000	Range	90 - 115	Recovery	=	105.56%
80) 4-BROMOFLUOROBENZENE	7.148	95	70535	17.5876006	ppb	0.00
Spiked Amount	16.000	Range	80 - 120	Recovery	=	109.92%
Target Compounds						
					Qvalue	
4) PROPENE	1.600	41	3319	1.2952242	ppb	88
5) DICHLORODIFLUOROMETHANE	1.637	85	6407	1.0341083	ppb	100
6) CHLOROMETHANE	1.813	50	7529	1.0495689	ppb	97
7) VINYL CHLORIDE	1.868	62	5623	0.9595270	ppb	98
8) 1,3-BUTADIENE	1.880	39	5283	1.1839529	ppb	84
9) BROMOMETHANE	2.111	94	6428	1.1423772	ppb	# 92
10) CHLOROETHANE	2.196	64	3964	1.1553039	ppb	92
11) VINYL BROMIDE	2.282	106	4001	1.0468861	ppb	93
12) TRICHLOROFLUOROMETHANE	2.294	101	6827	1.0003053	ppb	98
13) DICHLOROFLUOROMETHANE	2.324	67	9417	0.9842769	ppb	# 82
14) ETHYL ETHER	2.488	59	2220	0.7716355	ppb	# 77
15) ACROLEIN	2.841	56	2428	5.1878454	ppb	# 49
16) ETHANOL	2.592	45	1660	20.5071783	ppb	# 74
17) 1,1-DICHLOROETHENE	2.628	96	3280	0.8922772	ppb	89
18) 1,1,2-TRICHLOROTRIFLUO...	2.634	101	3491	1.0029740	ppb	91
19) ACETONE	2.999	43	8468	4.8075099	ppb	96
20) IODOMETHANE	2.726	142	30304	4.5801921	ppb	99
21) CARBON DISULFIDE	2.665	76	11051	1.0086328	ppb	# 93
22) ALLYL CHLORIDE	2.908	76	10754	4.9756599	ppb	89
23) METHYLENE CHLORIDE	2.969	84	4550	1.0562369	ppb	92
24) METHYL ACETATE	3.060	43	15212	4.3899266	ppb	# 99
25) ACRYLONITRILE	3.450	53	8507	4.0386607	ppb	95
26) n-HEXANE	3.091	56	3201	1.3383785	ppb	# 91
27) TRANS-1,2-DICHLOROETHENE	3.066	96	3899	0.9496571	ppb	98
28) METHYL TERT-BUTYL ETHER	3.103	73	10618	0.9255631	ppb	85
29) TERT-BUTYL ALCOHOL	3.139	59	4457	4.7460467	ppb	# 100
30) 1,1-DICHLOROETHANE	3.401	63	7464	0.9834384	ppb	98
31) VINYL ACETATE	3.523	43	31880	4.5646102	ppb	96
32) DI-ISOPROPYL ETHER	3.297	45	12567	0.9643244	ppb	92
33) ETHYL TERT-BUTYL ETHER	3.498	59	10747	0.9094137	ppb	98
34) 2,2-DICHLOROPROPANE	3.760	77	6450	0.9532723	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.705	96	4326	0.9367135	ppb	94
36) 2-BUTANONE (MEK)	4.009	43	11809	4.1703077	ppb	# 85
37) BROMOCHLOROMETHANE	3.815	130	2562	0.8873382	ppb	93
38) TETRAHYDROFURAN	3.942	42	2563	1.0498863	ppb	# 71
39) CHLOROFORM	3.839	83	8358	1.0551980	ppb	94
40) CYCLOHEXANE	3.821	84	5245	1.0189547	ppb	99
41) 1,1,1-TRICHLOROETHANE	3.967	97	6983	0.9858246	ppb	90

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_09.D
 Acq On : 7 Jul 2020 5:22 pm
 Operator : 988
 Sample : STD VMS 1 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 9 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:35:01 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
42) CARBON TETRACHLORIDE	3.930	117	6061	0.9261663	ppb		94
43) 1,1-DICHLOROPROPENE	4.034	75	5224	0.9246111	ppb	#	90
44) 2,2,4-TRIMETHYLPENTANE	4.064	57	6807	1.0342582	ppb	#	89
45) n-Heptane	4.113	71	1701	1.0423088	ppb	#	92
46) BENZENE	4.174	78	14899	0.8773985	ppb		97
47) TERT-AMYL METHYL ETHER	4.198	73	11786	1.0134565	ppb	#	93
49) 1,2-DICHLOROETHANE	4.283	62	4878m	0.9332772	ppb		
50) T-AMYL ALCOHOL	4.289	59	3710	4.5841814	ppb		95
51) TRICHLOROETHENE	4.496	132	4618	0.9787741	ppb	#	83
52) METHYL CYCLOHEXANE	4.490	83	5350	1.0245280	ppb		90
53) TERT-AMYL ETHYL ETHER	4.575	59	7618	0.8640621	ppb		96
54) 1,2-DICHLOROPROPANE	4.794	62	2577	0.9309597	ppb		97
55) DIBROMOMETHANE	4.751	93	2297	0.9338611	ppb		85
56) BROMODICHLOROMETHANE	4.818	83	5180	0.9319475	ppb	#	93
57) 2-CHLOROETHYL VINYL ETHER	5.135	63	11509	3.9747147	ppb		99
58) CIS-1,3-DICHLOROPROPENE	5.189	75	5690	0.9220357	ppb	#	91
60) 4-METHYL-2-PENTANONE (...)	5.548	43	27712	4.5433581	ppb		99
62) TOLUENE	5.335	91	18192	0.9894218	ppb		88
63) TRANS-1,3-DICHLOROPROPENE	5.597	75	4489m	0.9546562	ppb		
64) 1,1,2-TRICHLOROETHANE	5.694	97	3257	0.9132623	ppb		94
65) TETRACHLOROETHENE	5.591	164	3917	0.9948616	ppb		92
66) 1,3-DICHLOROPROPANE	5.877	76	5533	0.9792384	ppb		93
67) 2-HEXANONE	6.084	58	10324	4.2317527	ppb		97
68) CHLORODIBROMOMETHANE	5.816	129	4014	0.9365039	ppb	#	94
69) 1,2-DIBROMOETHANE	5.999	107	3560	0.9323242	ppb		97
70) CHLOROBENZENE	6.321	112	10842	0.9355166	ppb	#	85
71) 1,1,1,2-TETRACHLOROETHANE	6.351	133	3708	0.9576638	ppb	#	100
72) ETHYLBENZENE	6.321	106	6435	1.0579982	ppb		85
73) M&P-XYLENE	6.412	106	13324	1.6908943	ppb		77
74) O-XYLENE	6.716	106	6713	0.9002309	ppb		95
77) STYRENE	6.765	104	9762	0.8943595	ppb	#	84
78) BROMOFORM	6.796	173	3120	0.8743488	ppb		96
79) ISOPROPYLBENZENE	6.929	105	17671	0.9678975	ppb	#	96
82) BROMOBENZENE	7.227	77	7213	1.0423986	ppb		88
83) 1,1,2,2-TETRACHLOROETHANE	7.258	83	5653	0.9794282	ppb		98
84) 1,2,3-TRICHLOROPROPANE	7.343	110	1648	0.9145315	ppb		88
85) TRANS-1,4-DICHLORO-2-B...	7.373	53	1380	0.8374119	ppb	#	59
86) N-PROPYLBENZENE	7.215	91	18182	0.9307713	ppb		98
87) 4-ETHYLTOLUENE	7.282	105	14218	0.9428882	ppb		95
88) 2-CHLOROTOLUENE	7.325	91	10808	0.8973817	ppb		98
89) 4-CHLOROTOLUENE	7.410	91	9243	0.9008947	ppb		95
90) 1,3,5-TRIMETHYLBENZENE	7.319	105	13933	0.9516331	ppb		99
91) TERT-BUTYLBENZENE	7.471	119	11904	0.9869826	ppb		98
92) 1,2,4-TRIMETHYLBENZENE	7.501	105	11473	0.9737475	ppb	#	84
93) SEC-BUTYLBENZENE	7.544	105	13608	0.9477517	ppb		99
94) 1,3-DICHLOROBENZENE	7.647	146	5594	0.8123878	ppb		94
95) P-ISOPROPYLTOLUENE	7.593	119	11422	0.9415445	ppb		99
96) DICYCLOPENTADIENE	7.599	66	13424	0.9110371	ppb		97
97) 1,4-DICHLOROBENZENE	7.672	146	6997	1.0636451	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.672	105	8769	0.9366849	ppb		94
99) 1,2-DICHLOROBENZENE	7.836	146	6192	0.9570959	ppb		96
100) N-BUTYLBENZENE	7.757	91	9217	0.9210806	ppb		99
101) 1,2-DIBROMO-3-CHLOROPR...	8.122	157	1342	0.7921715	ppb	#	63
102) 1,3,5-TRICHLOROBENZENE	8.134	180	3654	0.8758867	ppb		97
103) 1,2,4-TRICHLOROBENZENE	8.371	180	3284	0.9018427	ppb		94

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_09.D
 Acq On : 7 Jul 2020 5:22 pm
 Operator : 988
 Sample : STD VMS 1 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 9 Sample Multiplier: 1
 InstName : VOCMS7

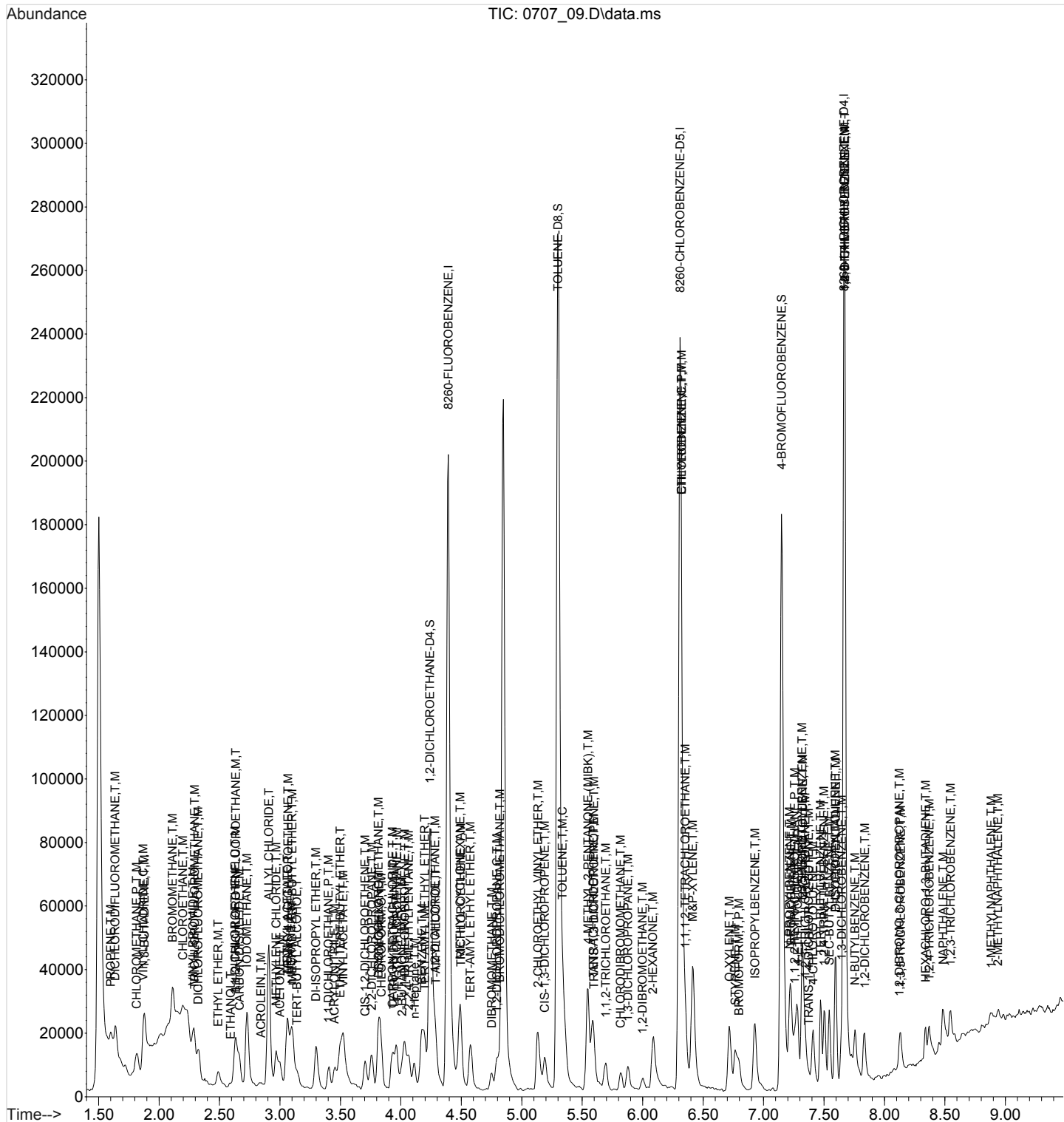
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 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
104) HEXACHLORO-1,3-BUTADIENE	8.341	225	1844	1.0116586	ppb		93
105) NAPHTHALENE	8.487	128	10595	0.9508020	ppb	#	89
106) 1,2,3-TRICHLOROBENZENE	8.548	180	3077	0.9163000	ppb		90
107) 1-METHYLNAPHTHALENE	8.882	142	1697	0.7863957	ppb	#	89
108) 2-METHYLNAPHTHALENE	8.937	142	2581	1.1032416	ppb	#	84

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

Data Path : C:\msdchem\1\data\070720\
Data File : 0707_09.D
Acq On : 7 Jul 2020 5:22 pm
Operator : 988
Sample : STD VMS 1 PPB 20G07476
Misc : waterIS/SURR20G06381
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS7

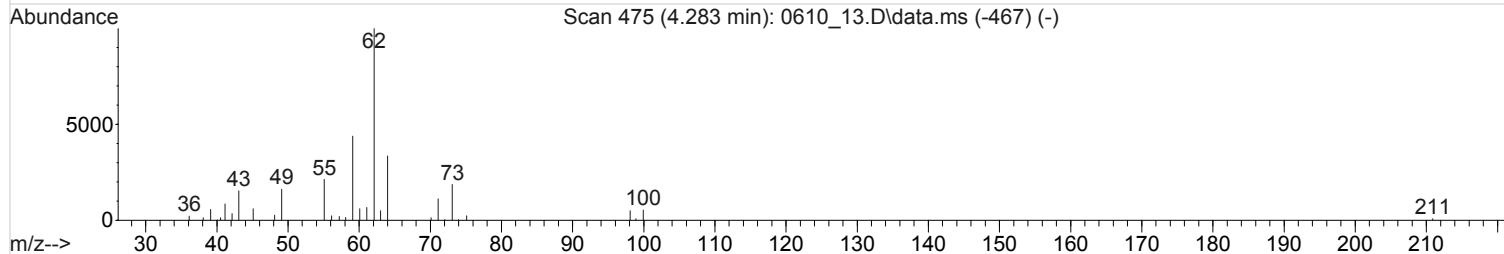
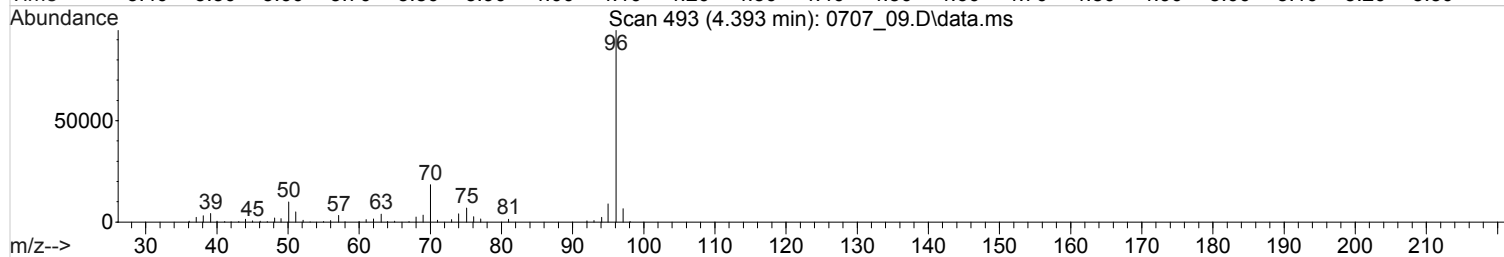
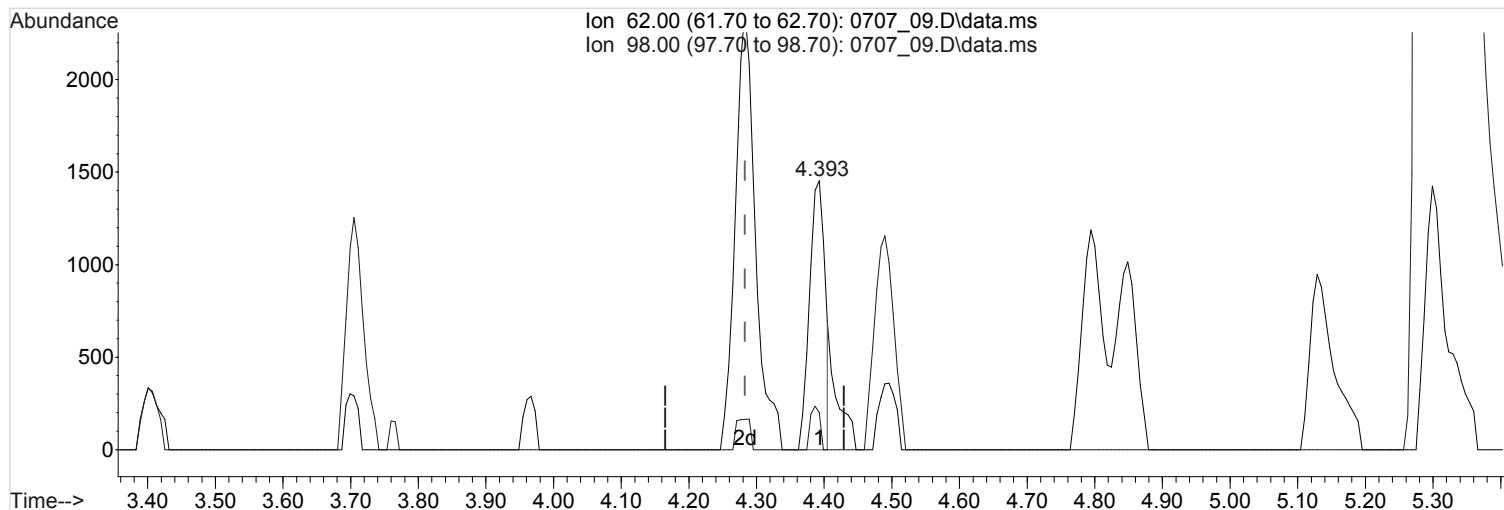
Quant Time: Jul 08 08:35:01 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 08:24:40 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_09.D
 Acq On : 7 Jul 2020 5:22 pm
 Operator : 988
 Sample : STD VMS 1 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 9 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:25:14 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration



TIC: 0707_09.D\data.ms

(49) 1,2-DICHLOROETHANE (T,M)

4.393min (+0.109) 0.4463583 ppb

Qvalue = 97

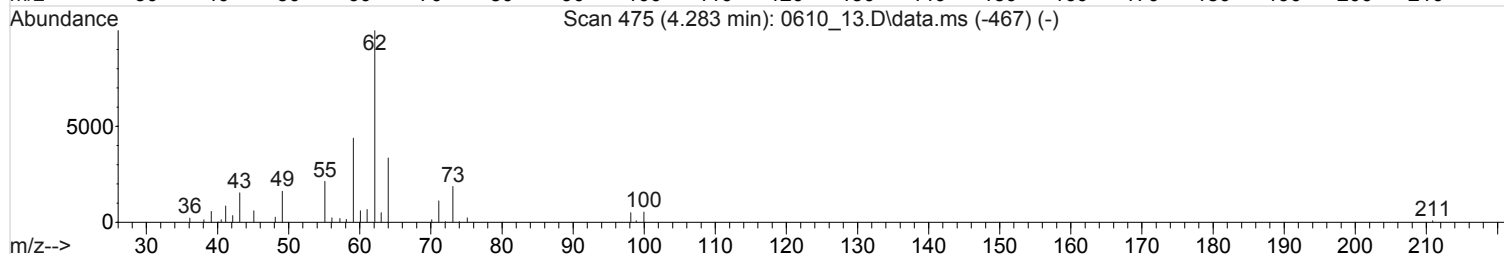
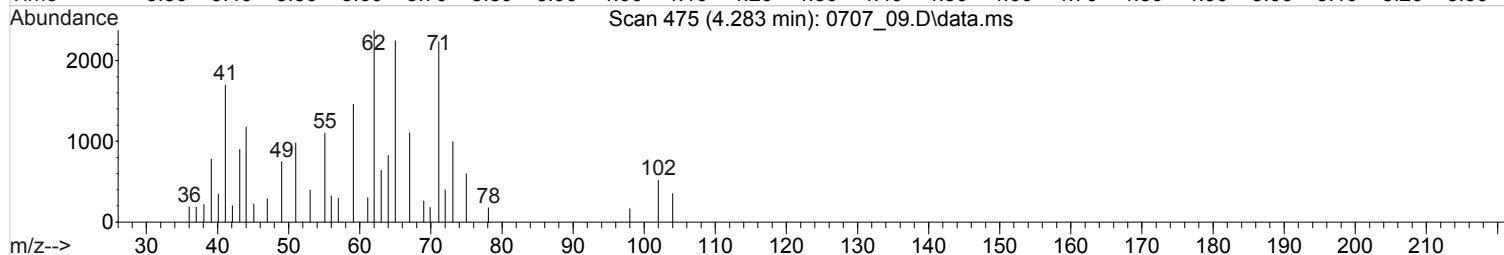
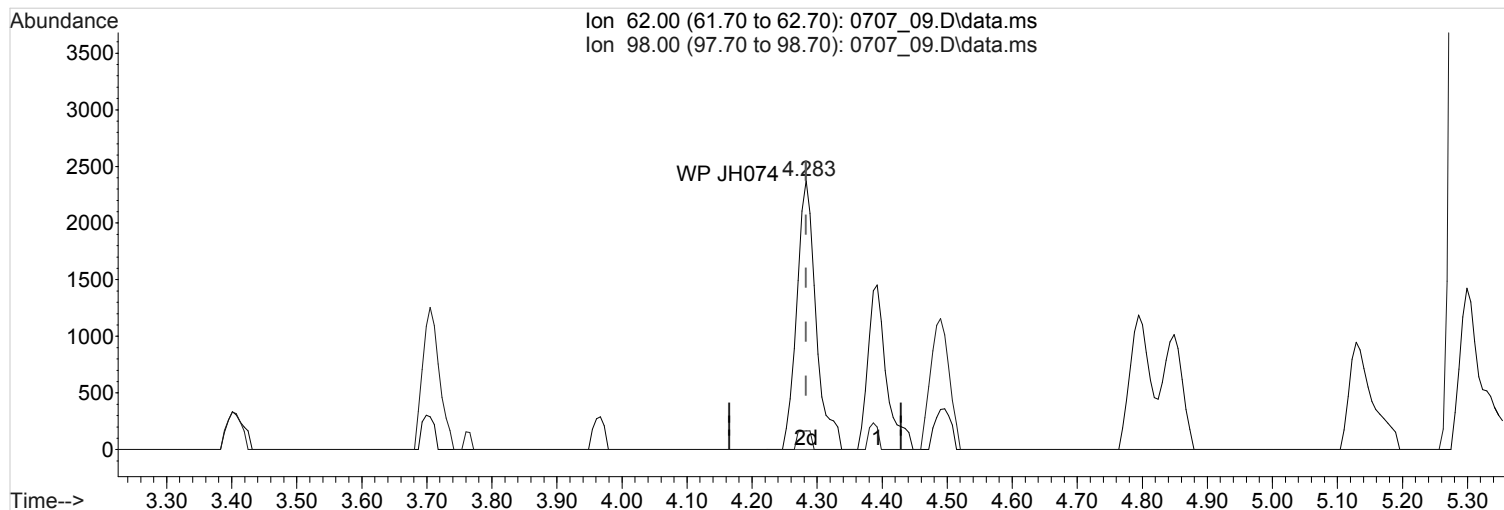
response 2333

Ion	Exp%	Act%
62.00	100	100
98.00	8.90	9.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_09.D
 Acq On : 7 Jul 2020 5:22 pm
 Operator : 988
 Sample : STD VMS 1 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 9 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:25:14 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration



TIC: 0707_09.D\data.ms

(49) 1,2-DICHLOROETHANE (T,M)

4.283min (-0.000) 0.9332772 ppb m

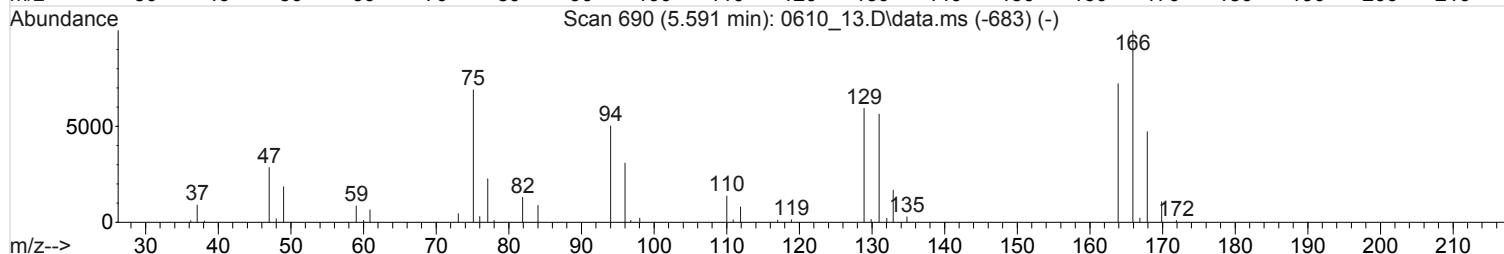
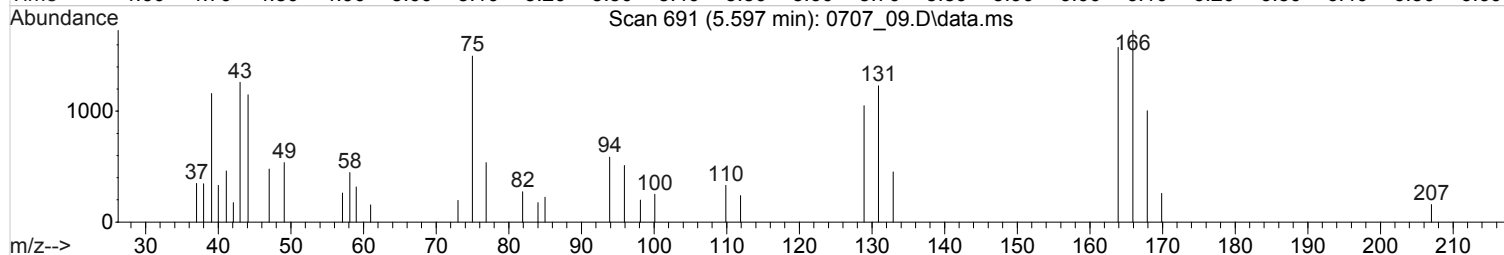
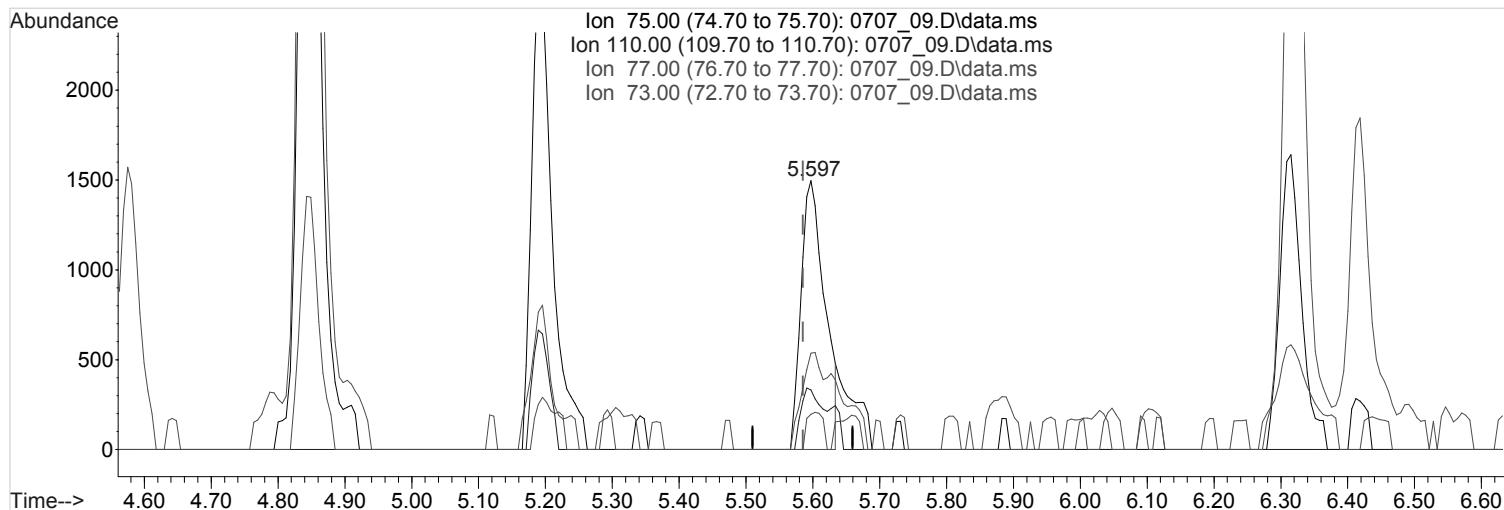
response 4878

Ion	Exp%	Act%
62.00	100	100
98.00	8.90	4.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_09.D
 Acq On : 7 Jul 2020 5:22 pm
 Operator : 988
 Sample : STD VMS 1 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 9 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:25:14 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration



TIC: 0707_09.D\data.ms

(63) TRANS-1,3-DICHLOROPROPENE (T,M)

5.597min (+0.012) 0.7770804 ppb

Qvalue = 89

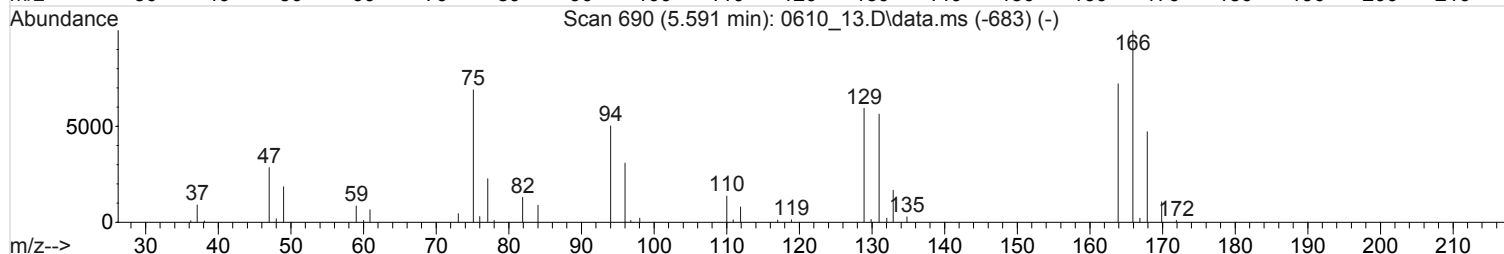
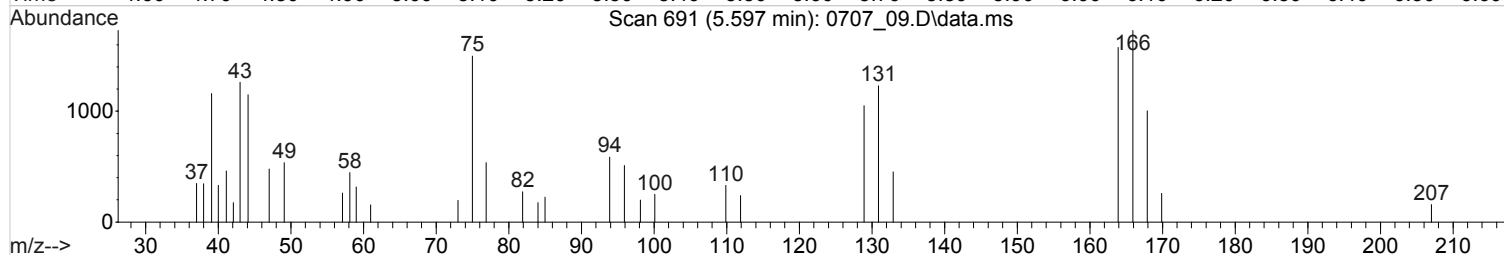
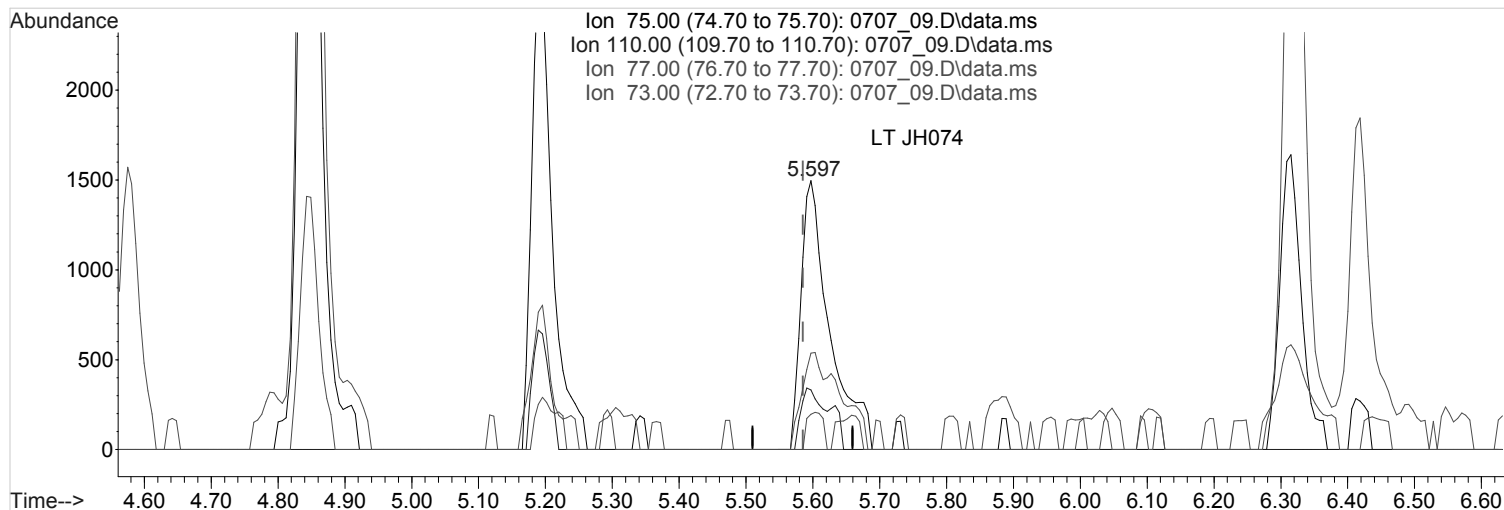
response 3654

Ion	Exp%	Act%
75.00	100	100
110.00	25.70	20.72
77.00	35.40	43.05#
73.00	7.60	9.50#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_09.D
 Acq On : 7 Jul 2020 5:22 pm
 Operator : 988
 Sample : STD VMS 1 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 9 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:25:14 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration



TIC: 0707_09.D\data.ms

(63) TRANS-1,3-DICHLOROPROPENE (T,M)

5.597min (+0.012) 0.9546562 ppb m

response 4489

Ion	Exp%	Act%
75.00	100	100
110.00	25.70	16.86#
77.00	35.40	35.04
73.00	7.60	7.73

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_11.D
 Acq On : 7 Jul 2020 6:02 pm
 Operator : 988
 Sample : MSTD VMS 5.0 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:37:49 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	179715	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.309	82	71928	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.666	152	63855	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.39
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.31
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.67
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.240	65	66318	19.0000000	ppb	0.00
Spiked Amount	16.000		Recovery	=	118.75%	
61) TOLUENE-D8	5.299	98	226647	19.0000000	ppb	0.00
Spiked Amount	16.000	Range 90 - 115	Recovery	=	118.75%#	
80) 4-BROMOFLUOROBENZENE	7.148	95	74906	19.0000000	ppb	0.00
Spiked Amount	16.000	Range 80 - 120	Recovery	=	118.75%	
Target Compounds						
					Qvalue	
4) PROPENE	1.600	41	12213	5.0000000	ppb	100
5) DICHLORODIFLUOROMETHANE	1.637	85	29529	5.0000000	ppb	100
6) CHLOROMETHANE	1.813	50	33676	4.9249759	ppb	100
7) VINYL CHLORIDE	1.868	62	27930	5.0000000	ppb	100
8) 1,3-BUTADIENE	1.880	39	21267	5.0000000	ppb	100
9) BROMOMETHANE	2.111	94	26818	5.0000000	ppb	100
10) CHLOROETHANE	2.196	64	16353	5.0000000	ppb	100
11) VINYL BROMIDE	2.282	106	18215	5.0000000	ppb	100
12) TRICHLOROFLUOROMETHANE	2.294	101	32528	5.0000000	ppb	100
13) DICHLOROFLUOROMETHANE	2.324	67	45599	5.0000000	ppb	100
14) ETHYL ETHER	2.488	59	13712	5.0000000	ppb	100
15) ACROLEIN	2.835	56	11153	25.0000000	ppb	100
16) ETHANOL	2.586	45	19290	250.0000000	ppb	100
17) 1,1-DICHLOROETHENE	2.628	96	17520	5.0000000	ppb	100
18) 1,1,2-TRICHLOROTRIFLUO...	2.640	101	16589	5.0000000	ppb	100
19) ACETONE	2.993	43	41975	25.0000000	ppb	100
20) IODOMETHANE	2.726	142	157669	25.0000000	ppb	100
21) CARBON DISULFIDE	2.665	76	52219	5.0000000	ppb	100
22) ALLYL CHLORIDE	2.908	76	51505	25.0000000	ppb	100
23) METHYLENE CHLORIDE	2.969	84	20531	5.0000000	ppb	100
24) METHYL ACETATE	3.054	43	82577	25.0000000	ppb	# 100
25) ACRYLONITRILE	3.437	53	49893	24.8490916	ppb	100
26) n-HEXANE	3.091	56	11366	4.9855250	ppb	# 100
27) TRANS-1,2-DICHLOROETHENE	3.060	96	19568	5.0000000	ppb	100
28) METHYL TERT-BUTYL ETHER	3.103	73	54676	5.0000000	ppb	100
29) TERT-BUTYL ALCOHOL	3.139	59	22379	25.0000000	ppb	# 100
30) 1,1-DICHLOROETHANE	3.401	63	36173	5.0000000	ppb	100
31) VINYL ACETATE	3.517	43	166044	24.9412684	ppb	100
32) DI-ISOPROPYL ETHER	3.297	45	62111	5.0000000	ppb	100
33) ETHYL TERT-BUTYL ETHER	3.498	59	56323	5.0000000	ppb	100
34) 2,2-DICHLOROPROPANE	3.754	77	32183	4.9899219	ppb	100
35) CIS-1,2-DICHLOROETHENE	3.699	96	22011	5.0000000	ppb	100
36) 2-BUTANONE (MEK)	3.997	43	69490	25.7446651	ppb	98
37) BROMOCHLOROMETHANE	3.815	130	13761	5.0000000	ppb	99
38) TETRAHYDROFURAN	3.942	42	11635	5.0000000	ppb	96
39) CHLOROFORM	3.833	83	37751	5.0000000	ppb	100
40) CYCLOHEXANE	3.821	84	24533	5.0000000	ppb	100
41) 1,1,1-TRICHLOROETHANE	3.967	97	33760	5.0000000	ppb	100

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_11.D
 Acq On : 7 Jul 2020 6:02 pm
 Operator : 988
 Sample : MSTD VMS 5.0 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:37:49 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) CARBON TETRACHLORIDE	3.930	117	31190	5.0000000	ppb	100
43) 1,1-DICHLOROPROPENE	4.028	75	26928	5.0000000	ppb	100
44) 2,2,4-TRIMETHYLPENTANE	4.064	57	30076	4.7940576	ppb	98
45) n-Heptane	4.107	71	7778	5.0000000	ppb	# 100
46) BENZENE	4.167	78	80932	5.0000000	ppb	100
47) TERT-AMYL METHYL ETHER	4.198	73	55427	5.0000000	ppb	100
49) 1,2-DICHLOROETHANE	4.283	62	24911	5.0000000	ppb	100
50) T-AMYL ALCOHOL	4.283	59	19286	25.0000000	ppb	100
51) TRICHLOROETHENE	4.490	132	22383	4.9768755	ppb	100
52) METHYL CYCLOHEXANE	4.490	83	24888	5.0000000	ppb	100
53) TERT-AMYL ETHYL ETHER	4.575	59	42020	5.0000000	ppb	100
54) 1,2-DICHLOROPROPANE	4.794	62	13193	5.0000000	ppb	100
55) DIBROMOMETHANE	4.745	93	11723	5.0000000	ppb	100
56) BROMODICHLOROMETHANE	4.818	83	26491	5.0000000	ppb	100
57) 2-CHLOROETHYL VINYL ETHER	5.123	63	69002	25.0000000	ppb	100
58) CIS-1,3-DICHLOROPROPENE	5.183	75	29263	4.9746702	ppb	100
60) 4-METHYL-2-PENTANONE (...)	5.542	43	149898	25.0000000	ppb	100
62) TOLUENE	5.335	91	90372	5.0000000	ppb	100
63) TRANS-1,3-DICHLOROPROPENE	5.585	75	22751	4.9219020	ppb	100
64) 1,1,2-TRICHLOROETHANE	5.688	97	17529	5.0000000	ppb	100
65) TETRACHLOROETHENE	5.585	164	19352	5.0000000	ppb	100
66) 1,3-DICHLOROPROPANE	5.871	76	27687	4.9846968	ppb	100
67) 2-HEXANONE	6.078	58	59956	25.0000000	ppb	100
68) CHLORODIBROMOMETHANE	5.816	129	21067	5.0000000	ppb	100
69) 1,2-DIBROMOETHANE	5.993	107	18641	4.9661658	ppb	100
70) CHLOROBENZENE	6.321	112	56963	5.0000000	ppb	100
71) 1,1,1,2-TETRACHLOROETHANE	6.351	133	19031	5.0000000	ppb	# 100
72) ETHYLBENZENE	6.315	106	29803	4.9846128	ppb	100
73) M&P-XYLENE	6.412	106	77461	10.0000000	ppb	100
74) O-XYLENE	6.710	106	36652	5.0000000	ppb	100
77) STYRENE	6.753	104	53451	4.9815467	ppb	100
78) BROMOFORM	6.789	173	17539	5.0000000	ppb	100
79) ISOPROPYLBENZENE	6.923	105	89736	5.0000000	ppb	100
82) BROMOBENZENE	7.228	77	34041	5.0000000	ppb	100
83) 1,1,2,2-TETRACHLOROETHANE	7.258	83	28394	5.0000000	ppb	100
84) 1,2,3-TRICHLOROPROPANE	7.343	110	8865	5.0000000	ppb	100
85) TRANS-1,4-DICHLORO-2-B...	7.361	53	8107	5.0000000	ppb	# 100
86) N-PROPYLBENZENE	7.215	91	96099	5.0000000	ppb	100
87) 4-ETHYLTOLUENE	7.276	105	74182	5.0000000	ppb	100
88) 2-CHLOROTOLUENE	7.319	91	59250	5.0000000	ppb	100
89) 4-CHLOROTOLUENE	7.404	91	50473	5.0000000	ppb	100
90) 1,3,5-TRIMETHYLBENZENE	7.319	105	72027	5.0000000	ppb	100
91) TERT-BUTYLBENZENE	7.471	119	59334	5.0000000	ppb	100
92) 1,2,4-TRIMETHYLBENZENE	7.501	105	57963	5.0000000	ppb	100
93) SEC-BUTYLBENZENE	7.544	105	70635	5.0000000	ppb	100
94) 1,3-DICHLOROBENZENE	7.641	146	33875	5.0000000	ppb	100
95) P-ISOPROPYLTOLUENE	7.593	119	59679	5.0000000	ppb	100
96) DICYCLOPENTADIENE	7.599	66	72488	5.0000000	ppb	100
97) 1,4-DICHLOROBENZENE	7.672	146	32730	5.0568568	ppb	98
98) 1,2,3-TRIMETHYLBENZENE	7.672	105	46055	5.0000000	ppb	100
99) 1,2-DICHLOROBENZENE	7.830	146	31827	5.0000000	ppb	100
100) N-BUTYLBENZENE	7.751	91	49176	4.9947185	ppb	100
101) 1,2-DIBROMO-3-CHLOROPR...	8.122	157	8334	5.0000000	ppb	100
102) 1,3,5-TRICHLOROBENZENE	8.128	180	20523	5.0000000	ppb	100
103) 1,2,4-TRICHLOROBENZENE	8.359	180	17914	5.0000000	ppb	100

Data Path : C:\msdchem\1\data\070720\
Data File : 0707_11.D
Acq On : 7 Jul 2020 6:02 pm
Operator : 988
Sample : MSTD VMS 5.0 PPB 20G07476
Misc : waterIS/SURR20G06381
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS7

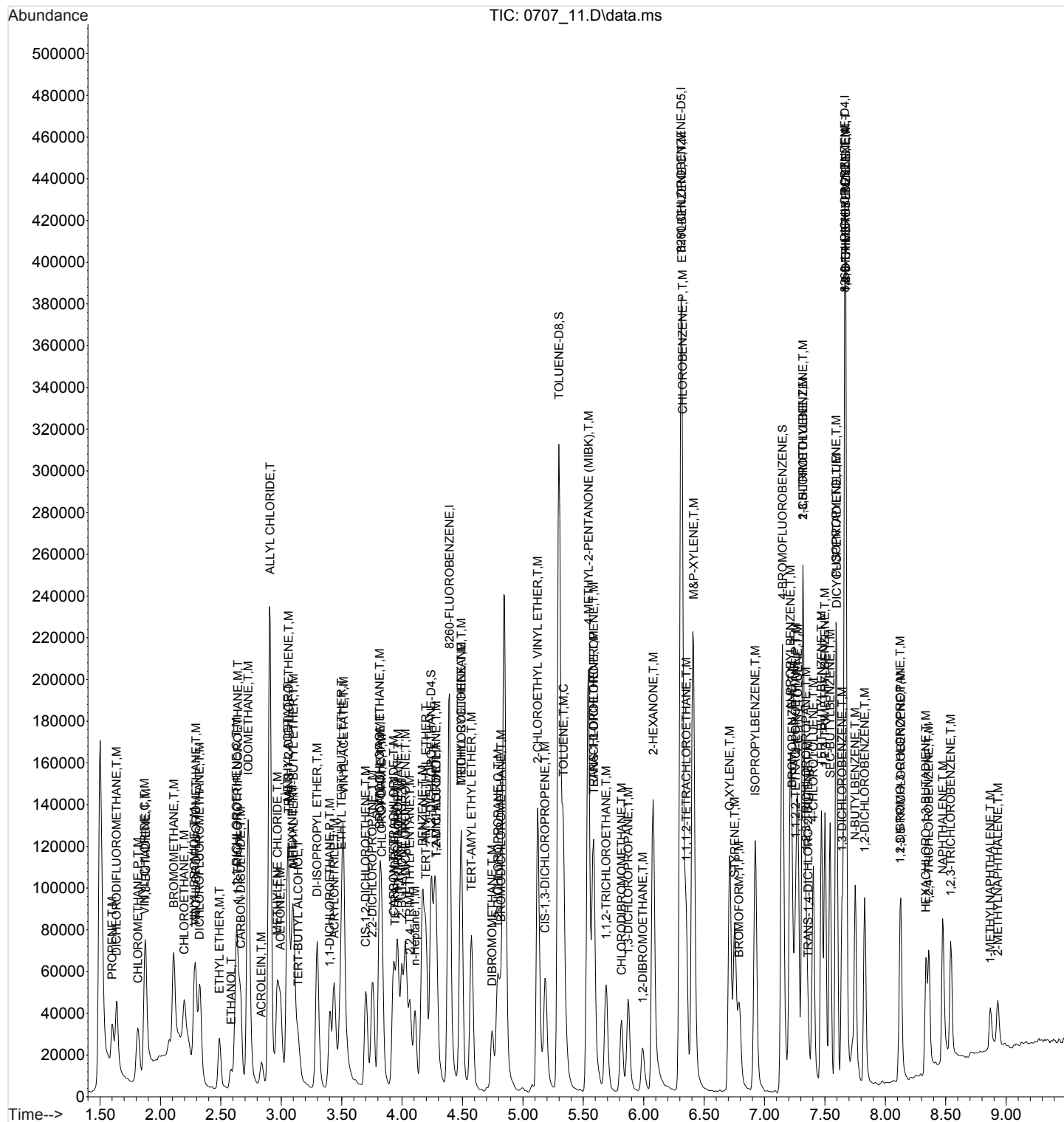
Quant Time: Jul 08 08:37:49 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 08:24:40 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) HEXACHLORO-1,3-BUTADIENE	8.335	225	8967	5.0000000	ppb	100
105) NAPHTHALENE	8.475	128	54819	5.0000000	ppb	100
106) 1,2,3-TRICHLOROBENZENE	8.542	180	16520	5.0000000	ppb	100
107) 1-METHYLNAPHTHALENE	8.870	142	10616	5.0000000	ppb	100
108) 2-METHYLNAPHTHALENE	8.931	142	11509	5.0000000	ppb	100

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

Data Path : C:\msdchem\1\data\070720\
Data File : 0707_11.D
Acq On : 7 Jul 2020 6:02 pm
Operator : 988
Sample : MSTD VMS 5.0 PPB 20G07476
Misc : waterIS/SURR20G06381
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Jul 08 08:37:49 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 08:24:40 2020
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_12.D
 Acq On : 7 Jul 2020 6:22 pm
 Operator : 988
 Sample : STD VMS 25 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:38:35 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	178454	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.309	82	78313	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.665	152	62193	16.0000000	ppb	# 0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.39
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.31
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.67
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.240	65	74509	21.4975494	ppb	0.00
Spiked Amount 16.000			Recovery	= 134.36%		
61) TOLUENE-D8	5.299	98	234842	18.0818774	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	= 113.01%		
80) 4-BROMOFLUOROBENZENE	7.148	95	80940	18.8566404	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	= 117.85%		
Target Compounds						
					Qvalue	
4) PROPENE	1.600	41	61021	25.1585153	ppb	95
5) DICHLORODIFLUOROMETHANE	1.637	85	160013	27.2856669	ppb	99
6) CHLOROMETHANE	1.813	50	165937	24.4390815	ppb	100
7) VINYL CHLORIDE	1.868	62	142054	25.6100588	ppb	96
8) 1,3-BUTADIENE	1.880	39	102245	24.2082777	ppb	100
9) BROMOMETHANE	2.105	94	92044	17.2821250	ppb	98
10) CHLOROETHANE	2.190	64	75411	23.2201653	ppb	95
11) VINYL BROMIDE	2.275	106	92594	25.5965666	ppb	99
12) TRICHLOROFLUOROMETHANE	2.288	101	173968	26.9302295	ppb	99
13) DICHLOROFLUOROMETHANE	2.324	67	213205	23.5434504	ppb	94
14) ETHYL ETHER	2.488	59	69771	25.6213605	ppb	97
15) ACROLEIN	2.829	56	57957	130.8314769	ppb	89
16) ETHANOL	2.580	45	105721	1379.8347677	ppb	# 83
17) 1,1-DICHLOROETHENE	2.622	96	83758	24.0724471	ppb	89
18) 1,1,2-TRICHLOROTRIFLUO...	2.634	101	91542	27.7861409	ppb	98
19) ACETONE	2.987	43	227502	136.4559769	ppb	98
20) IODOMETHANE	2.726	142	866138	138.3053017	ppb	100
21) CARBON DISULFIDE	2.665	76	264656	25.5200334	ppb	98
22) ALLYL CHLORIDE	2.902	76	270149	132.0541401	ppb	90
23) METHYLENE CHLORIDE	2.969	84	100023	24.5311449	ppb	99
24) METHYL ACETATE	3.048	43	444292	135.4588678	ppb	# 100
25) ACRYLONITRILE	3.431	53	271172	136.0109213	ppb	98
26) n-HEXANE	3.091	56	62332	27.5341930	ppb	# 94
27) TRANS-1,2-DICHLOROETHENE	3.060	96	96477	24.8259225	ppb	96
28) METHYL TERT-BUTYL ETHER	3.103	73	278357	25.6350080	ppb	98
29) TERT-BUTYL ALCOHOL	3.139	59	110342	124.1361363	ppb	# 100
30) 1,1-DICHLOROETHANE	3.401	63	180373	25.1081691	ppb	100
31) VINYL ACETATE	3.510	43	980528	148.3246692	ppb	100
32) DI-ISOPROPYL ETHER	3.297	45	309246	25.0705357	ppb	99
33) ETHYL TERT-BUTYL ETHER	3.498	59	289134	25.8488621	ppb	98
34) 2,2-DICHLOROPROPANE	3.754	77	156054	24.3668935	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.699	96	112132	25.6517996	ppb	99
36) 2-BUTANONE (MEK)	3.991	43	364639	136.0460985	ppb	99
37) BROMOCHLOROMETHANE	3.815	130	69121	25.2922847	ppb	98
38) TETRAHYDROFURAN	3.936	42	48665	21.0609707	ppb	97
39) CHLOROFORM	3.833	83	190426	25.3995387	ppb	96
40) CYCLOHEXANE	3.821	84	130788	26.8438797	ppb	99
41) 1,1,1-TRICHLOROETHANE	3.961	97	170777	25.4715273	ppb	96

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_12.D
 Acq On : 7 Jul 2020 6:22 pm
 Operator : 988
 Sample : STD VMS 25 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:38:35 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
42) CARBON TETRACHLORIDE	3.930	117	151955	24.5317011	ppb		94
43) 1,1-DICHLOROPROPENE	4.027	75	133737	25.0078020	ppb		99
44) 2,2,4-TRIMETHYLPENTANE	4.064	57	167779	26.9326332	ppb		99
45) n-Heptane	4.107	71	44455	28.7793327	ppb	#	89
46) BENZENE	4.167	78	409202	25.4592449	ppb		96
47) TERT-AMYL METHYL ETHER	4.192	73	276026	25.0759078	ppb		98
49) 1,2-DICHLOROETHANE	4.277	62	127334	25.7383833	ppb		98
50) T-AMYL ALCOHOL	4.283	59	102544	133.8647221	ppb		91
51) TRICHLOROETHENE	4.490	132	114673	25.6777933	ppb		93
52) METHYL CYCLOHEXANE	4.490	83	137037	27.7252767	ppb		97
53) TERT-AMYL ETHYL ETHER	4.575	59	214359	25.6870197	ppb		97
54) 1,2-DICHLOROPROPANE	4.788	62	69261	26.4346302	ppb		97
55) DIBROMOMETHANE	4.739	93	60232	25.8711994	ppb		94
56) BROMODICHLOROMETHANE	4.812	83	136501	25.9457079	ppb		99
57) 2-CHLOROETHYL VINYL ETHER	5.123	63	377600	137.7743452	ppb		99
58) CIS-1,3-DICHLOROPROPENE	5.183	75	154473	26.4457610	ppb		94
60) 4-METHYL-2-PENTANONE (...)	5.536	43	795406	121.8420385	ppb		99
62) TOLUENE	5.329	91	455019	23.1222326	ppb		99
63) TRANS-1,3-DICHLOROPROPENE	5.579	75	134504	26.7258668	ppb		97
64) 1,1,2-TRICHLOROETHANE	5.688	97	90392	23.6813787	ppb		100
65) TETRACHLOROETHENE	5.585	164	100729	23.9035715	ppb		98
66) 1,3-DICHLOROPROPANE	5.871	76	147688	24.4214913	ppb		93
67) 2-HEXANONE	6.072	58	328634	125.8589123	ppb		100
68) CHLORODIBROMOMETHANE	5.816	129	113084	24.6508895	ppb		98
69) 1,2-DIBROMOETHANE	5.986	107	101184	24.7587079	ppb		96
70) CHLOROBENZENE	6.321	112	286640	23.1088359	ppb		98
71) 1,1,1,2-TETRACHLOROETHANE	6.351	133	99335	23.9703742	ppb	#	100
72) ETHYLBENZENE	6.315	106	160814	24.7035532	ppb		92
73) M&P-XYLENE	6.406	106	393374	46.6430215	ppb		98
74) O-XYLENE	6.710	106	192958	24.1768234	ppb		98
77) STYRENE	6.747	104	296784	25.4046362	ppb	#	83
78) BROMOFORM	6.789	173	94402	24.7178388	ppb		98
79) ISOPROPYLBENZENE	6.923	105	477448	24.4339398	ppb		98
82) BROMOBENZENE	7.221	77	179712	27.1018024	ppb		98
83) 1,1,2,2-TETRACHLOROETHANE	7.252	83	149904	27.1025435	ppb		99
84) 1,2,3-TRICHLOROPROPANE	7.343	110	43806	25.3675349	ppb		83
85) TRANS-1,4-DICHLORO-2-B...	7.355	53	38579	24.4294787	ppb	#	88
86) N-PROPYLBENZENE	7.209	91	522026	27.8866710	ppb		100
87) 4-ETHYLTOLUENE	7.276	105	419342	29.0197209	ppb		99
88) 2-CHLOROTOLUENE	7.319	91	315430	27.3299004	ppb		98
89) 4-CHLOROTOLUENE	7.398	91	272213	27.6868246	ppb		99
90) 1,3,5-TRIMETHYLBENZENE	7.319	105	357099	25.4516953	ppb		100
91) TERT-BUTYLBENZENE	7.471	119	304817	26.3729654	ppb		97
92) 1,2,4-TRIMETHYLBENZENE	7.501	105	314437	27.8487814	ppb		96
93) SEC-BUTYLBENZENE	7.544	105	362267	26.3288707	ppb		97
94) 1,3-DICHLOROBENZENE	7.641	146	164528	24.9335388	ppb		93
95) P-ISOPROPYLTOLUENE	7.592	119	316800	27.2512886	ppb		99
96) DICYCLOPENTADIENE	7.599	66	368700	26.1114162	ppb		98
97) 1,4-DICHLOROBENZENE	7.672	146	179189	28.4249297	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.672	105	233956	26.0783919	ppb		99
99) 1,2-DICHLOROBENZENE	7.830	146	170829	27.5542949	ppb		96
100) N-BUTYLBENZENE	7.751	91	258479	26.9548227	ppb		99
101) 1,2-DIBROMO-3-CHLOROPR...	8.116	157	45617	28.0993731	ppb		91
102) 1,3,5-TRICHLOROBENZENE	8.128	180	114099	28.5406855	ppb		98
103) 1,2,4-TRICHLOROBENZENE	8.359	180	96015	27.5150258	ppb		97

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Data File : 0707_12.D
Acq On : 7 Jul 2020 6:22 pm
Operator : 988
Sample : STD VMS 25 PPB 20G07476
Misc : waterIS/SURR20G06381
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS7

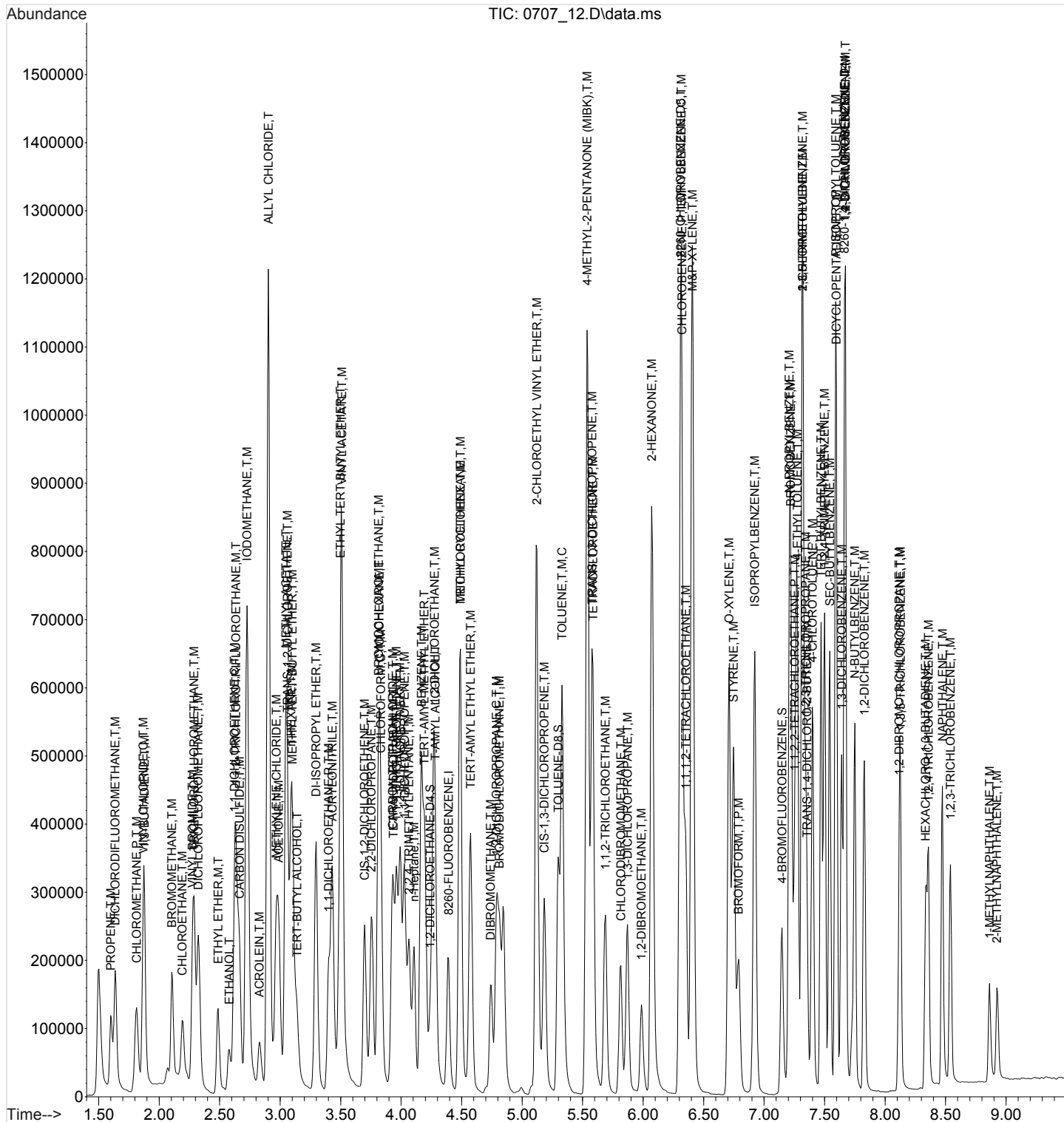
Quant Time: Jul 08 08:38:35 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 08:24:40 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) HEXACHLORO-1,3-BUTADIENE	8.335	225	45826	26.2354301	ppb	96
105) NAPHTHALENE	8.475	128	299967	28.0909080	ppb	99
106) 1,2,3-TRICHLOROBENZENE	8.541	180	85478	26.5624247	ppb	99
107) 1-METHYLNAPHTHALENE	8.864	142	60924	29.4612322	ppb	96
108) 2-METHYLNAPHTHALENE	8.925	142	60851	27.1427306	ppb	88

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

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Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_13.D
 Acq On : 7 Jul 2020 6:42 pm
 Operator : 988
 Sample : STD VMS 75 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:41:47 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
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 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.386	96	184712	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.303	82	77586	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.665	152	68927	16.0000000	ppb	# 0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.39
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.31
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.67
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.240	65	73507m	20.4899121	ppb	0.00
Spiked Amount 16.000			Recovery	= 128.06%		
61) TOLUENE-D8	5.299	98	261859	20.3510000	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	= 127.19%#		
80) 4-BROMOFLUOROBENZENE	7.142	95	94857	22.3059643	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	= 139.41%#		
Target Compounds						
					Qvalue	
4) PROPENE	1.600	41	204147	81.3167225	ppb	95
5) DICHLORODIFLUOROMETHANE	1.637	85	552676	91.0502383	ppb	100
6) CHLOROMETHANE	1.813	50	505651	71.9488229	ppb	99
7) VINYL CHLORIDE	1.868	62	441059	76.8218875	ppb	94
8) 1,3-BUTADIENE	1.880	39	324217	74.1632533	ppb	95
9) BROMOMETHANE	2.105	94	237108	43.0109507	ppb	95
10) CHLOROETHANE	2.184	64	180124	53.5837824	ppb	92
11) VINYL BROMIDE	2.269	106	279781	74.7219614	ppb	99
12) TRICHLOROFLUOROMETHANE	2.281	101	586929	87.7783530	ppb	98
13) DICHLOROFLUOROMETHANE	2.318	67	646706	68.9939155	ppb	94
14) ETHYL ETHER	2.482	59	210970	74.8478137	ppb	96
15) ACROLEIN	2.823	56	193137	421.2142004	ppb	87
16) ETHANOL	2.580	45	326966	4122.8695324	ppb	# 98
17) 1,1-DICHLOROETHENE	2.622	96	274632	76.2563930	ppb	94
18) 1,1,2-TRICHLOROTRIFLUO...	2.634	101	301872	88.5241664	ppb	99
19) ACETONE	2.987	43	714825	414.2268567	ppb	97
20) IODOMETHANE	2.726	142	2638667	407.0685008	ppb	99
21) CARBON DISULFIDE	2.659	76	831419	77.4552063	ppb	99
22) ALLYL CHLORIDE	2.902	76	796196	376.0103722	ppb	90
23) METHYLENE CHLORIDE	2.969	84	293373	69.5135166	ppb	99
24) METHYL ACETATE	3.042	43	1291899	380.5385738	ppb	# 98
25) ACRYLONITRILE	3.425	53	833455	403.8706291	ppb	99
26) n-HEXANE	3.084	56	205008	87.4909790	ppb	# 97
27) TRANS-1,2-DICHLOROETHENE	3.060	96	292763	72.7828353	ppb	98
28) METHYL TERT-BUTYL ETHER	3.103	73	819670	72.9292129	ppb	90
29) TERT-BUTYL ALCOHOL	3.139	59	330671	359.4054493	ppb	# 100
30) 1,1-DICHLOROETHANE	3.401	63	552425	74.2930207	ppb	100
31) VINYL ACETATE	3.504	43	3175101	464.0257801	ppb	100
32) DI-ISOPROPYL ETHER	3.297	45	942448	73.8155902	ppb	98
33) ETHYL TERT-BUTYL ETHER	3.492	59	857193	74.0375532	ppb	98
34) 2,2-DICHLOROPROPANE	3.754	77	494791	74.6411337	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.699	96	343802	75.9849962	ppb	98
36) 2-BUTANONE (MEK)	3.991	43	1169711	421.6311853	ppb	98
37) BROMOCHLOROMETHANE	3.808	130	172233	60.8871425	ppb	97
38) TETRAHYDROFURAN	3.936	42	138274	57.8140454	ppb	88
39) CHLOROFORM	3.833	83	569554	73.3948634	ppb	99
40) CYCLOHEXANE	3.814	84	437480	86.7494571	ppb	97
41) 1,1,1-TRICHLOROETHANE	3.961	97	527674	76.0365632	ppb	98

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_13.D
 Acq On : 7 Jul 2020 6:42 pm
 Operator : 988
 Sample : STD VMS 75 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:41:47 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
42) CARBON TETRACHLORIDE	3.930	117	474107	73.9469411	ppb		93
43) 1,1-DICHLOROPROPENE	4.027	75	427151	77.1678765	ppb		99
44) 2,2,4-TRIMETHYLPENTANE	4.064	57	526259	81.6153651	ppb		94
45) n-Heptane	4.107	71	149736	93.6520977	ppb	#	98
46) BENZENE	4.167	78	1236891	74.3481861	ppb		96
47) TERT-AMYL METHYL ETHER	4.192	73	836513	73.4193512	ppb		98
49) 1,2-DICHLOROETHANE	4.277	62	390837	76.3244582	ppb		100
50) T-AMYL ALCOHOL	4.283	59	316179	398.7678018	ppb		91
51) TRICHLOROETHENE	4.484	132	352897	76.3441330	ppb		92
52) METHYL CYCLOHEXANE	4.484	83	458379	89.5970964	ppb		97
53) TERT-AMYL ETHYL ETHER	4.575	59	655126	75.8451838	ppb		98
54) 1,2-DICHLOROPROPANE	4.788	62	208490	76.8777896	ppb		95
55) DIBROMOMETHANE	4.739	93	191359	79.4089308	ppb		94
56) BROMODICHLOROMETHANE	4.812	83	420529	77.2248047	ppb		99
57) 2-CHLOROETHYL VINYL ETHER	5.116	63	1152763	406.3568405	ppb		100
58) CIS-1,3-DICHLOROPROPENE	5.183	75	477343	78.9523792	ppb		95
60) 4-METHYL-2-PENTANONE (...)	5.536	43	2359920	364.8850532	ppb		100
62) TOLUENE	5.329	91	1383652	70.9704581	ppb		99
63) TRANS-1,3-DICHLOROPROPENE	5.579	75	426431	85.5255483	ppb		96
64) 1,1,2-TRICHLOROETHANE	5.688	97	279144	73.8168967	ppb		99
65) TETRACHLOROETHENE	5.579	164	316671	75.8520050	ppb		98
66) 1,3-DICHLOROPROPANE	5.871	76	452346	75.5002213	ppb		94
67) 2-HEXANONE	6.072	58	1017521	393.3375075	ppb		97
68) CHLORODIBROMOMETHANE	5.810	129	361698	79.5844170	ppb		99
69) 1,2-DIBROMOETHANE	5.986	107	312366	77.1490155	ppb		97
70) CHLOROBENZENE	6.315	112	902191	73.4159231	ppb		97
71) 1,1,1,2-TETRACHLOROETHANE	6.351	133	309672	75.4266738	ppb	#	100
72) ETHYLBENZENE	6.309	106	510157	79.1024472	ppb		91
73) M&P-XYLENE	6.406	106	1209756	144.7869128	ppb		98
74) O-XYLENE	6.710	106	604400	76.4383678	ppb		99
77) STYRENE	6.747	104	938158	81.0585782	ppb	#	82
78) BROMOFORM	6.789	173	308960	81.6548631	ppb		99
79) ISOPROPYLBENZENE	6.923	105	1500071	77.4871585	ppb		98
82) BROMOBENZENE	7.221	77	582304	79.2360835	ppb		95
83) 1,1,2,2-TETRACHLOROETHANE	7.252	83	476401	77.7180014	ppb		99
84) 1,2,3-TRICHLOROPROPANE	7.343	110	134574	70.3166154	ppb		76
85) TRANS-1,4-DICHLORO-2-B...	7.349	53	126275	72.1494029	ppb	#	76
86) N-PROPYLBENZENE	7.209	91	1714972	82.6634834	ppb		99
87) 4-ETHYLTOLUENE	7.270	105	1334858	83.3512405	ppb		99
88) 2-CHLOROTOLUENE	7.319	91	1009020	78.8836426	ppb		97
89) 4-CHLOROTOLUENE	7.398	91	897618	82.3773792	ppb		99
90) 1,3,5-TRIMETHYLBENZENE	7.319	105	1122861	72.2114738	ppb		99
91) TERT-BUTYLBENZENE	7.471	119	993852	77.5878336	ppb		98
92) 1,2,4-TRIMETHYLBENZENE	7.501	105	1013170	80.9668053	ppb		97
93) SEC-BUTYLBENZENE	7.544	105	1173983	76.9869998	ppb		97
94) 1,3-DICHLOROBENZENE	7.641	146	555759	75.9946007	ppb		94
95) P-ISOPROPYLTOLUENE	7.592	119	1023536	79.4432718	ppb		99
96) DICYCLOPENTADIENE	7.598	66	1131740	72.3196117	ppb		96
97) 1,4-DICHLOROBENZENE	7.671	146	572149	81.8934800	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.665	105	748126	75.2442813	ppb		99
99) 1,2-DICHLOROBENZENE	7.830	146	566992	82.5195335	ppb		95
100) N-BUTYLBENZENE	7.751	91	851536	80.1246893	ppb		98
101) 1,2-DIBROMO-3-CHLOROPR...	8.116	157	143684	79.8602105	ppb		91
102) 1,3,5-TRICHLOROBENZENE	8.128	180	362474	81.8109719	ppb		99
103) 1,2,4-TRICHLOROBENZENE	8.359	180	302304	78.1676149	ppb		97

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Operator : 988
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Misc : waterIS/SURR20G06381
ALS Vial : 13 Sample Multiplier: 1
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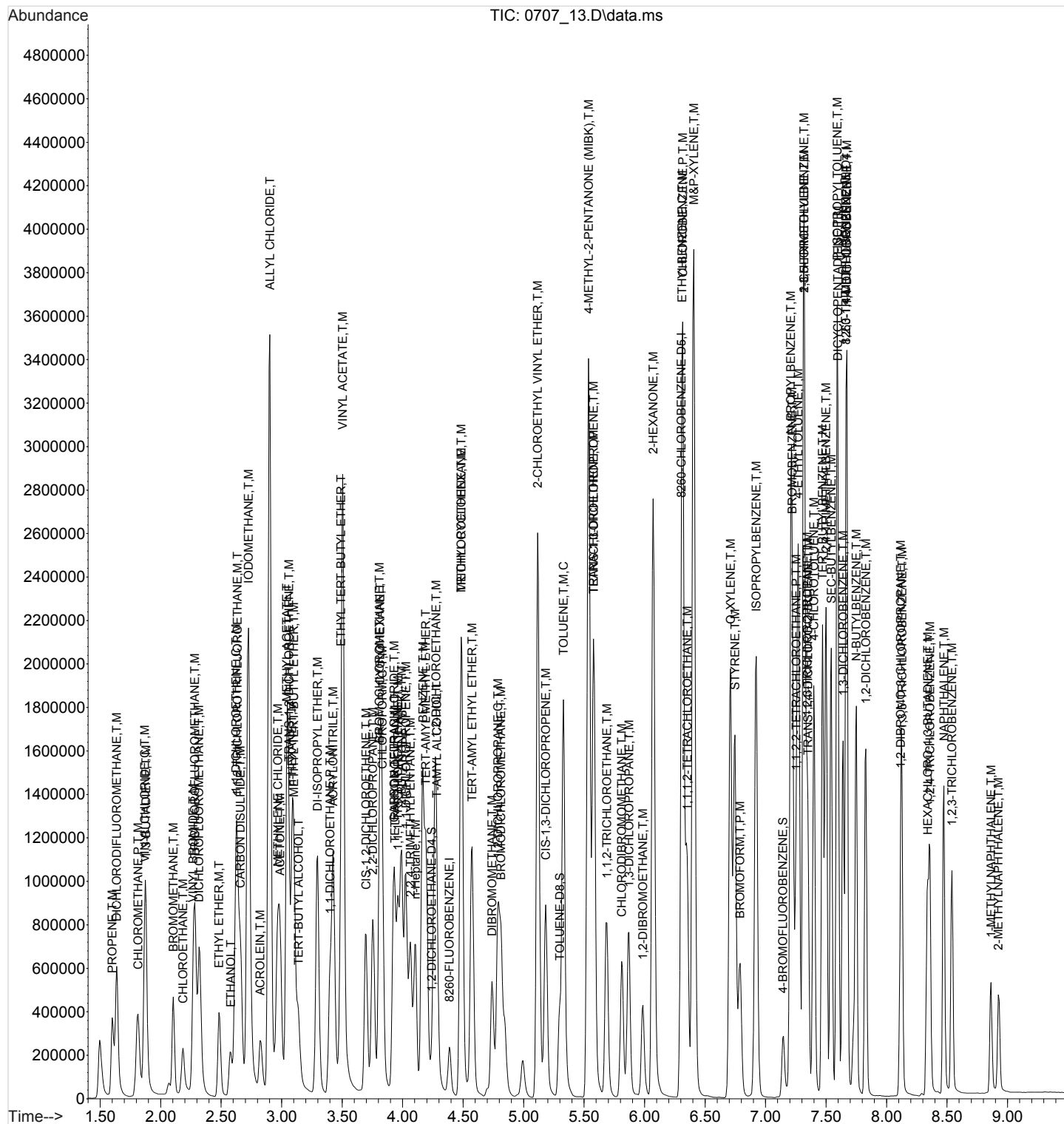
Quant Time: Jul 08 08:41:47 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 08:24:40 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) HEXACHLORO-1,3-BUTADIENE	8.341	225	147480	76.1836009	ppb	96
105) NAPHTHALENE	8.475	128	948235	80.1235918	ppb	98
106) 1,2,3-TRICHLOROBENZENE	8.541	180	275216	77.1683426	ppb	98
107) 1-METHYLNAPHTHALENE	8.864	142	208945	91.1688780	ppb	97
108) 2-METHYLNAPHTHALENE	8.925	142	193904	78.0413395	ppb	89

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

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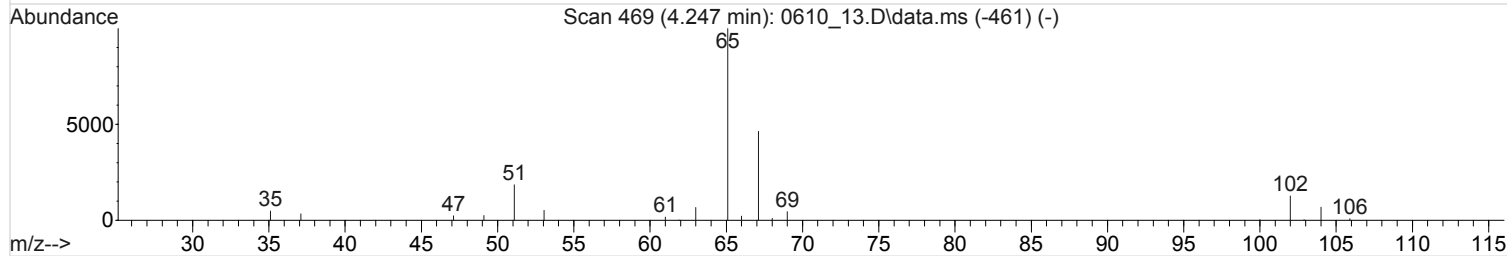
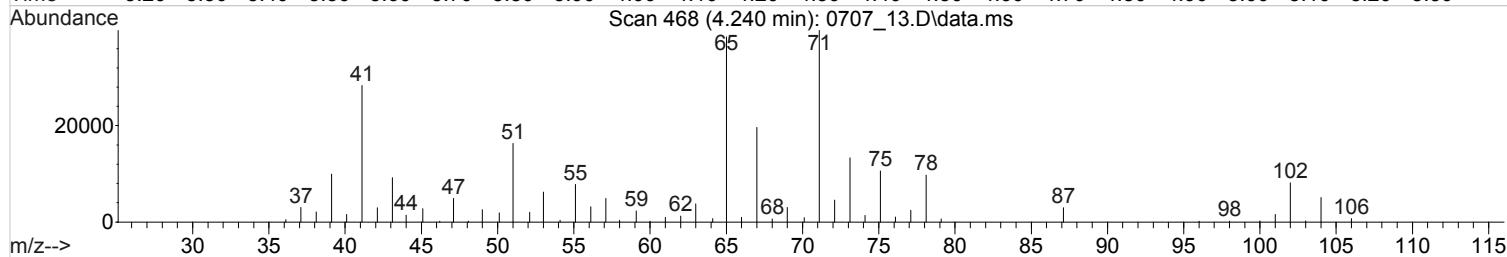
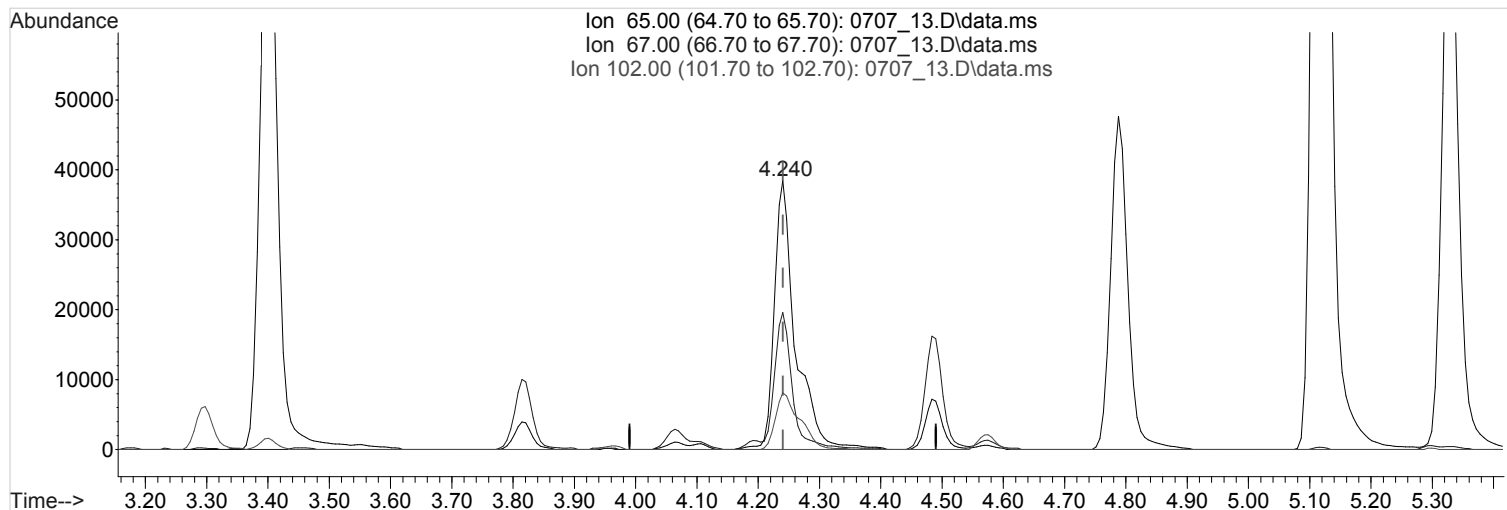
Quant Time: Jul 08 08:41:47 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 08:24:40 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_13.D
 Acq On : 7 Jul 2020 6:42 pm
 Operator : 988
 Sample : STD VMS 75 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:25:30 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration



TIC: 0707_13.D\data.ms

(48) 1,2-DICHLOROETHANE-D4 (S)

4.240min (-0.000) 25.9341347 ppb

Qvalue = 90

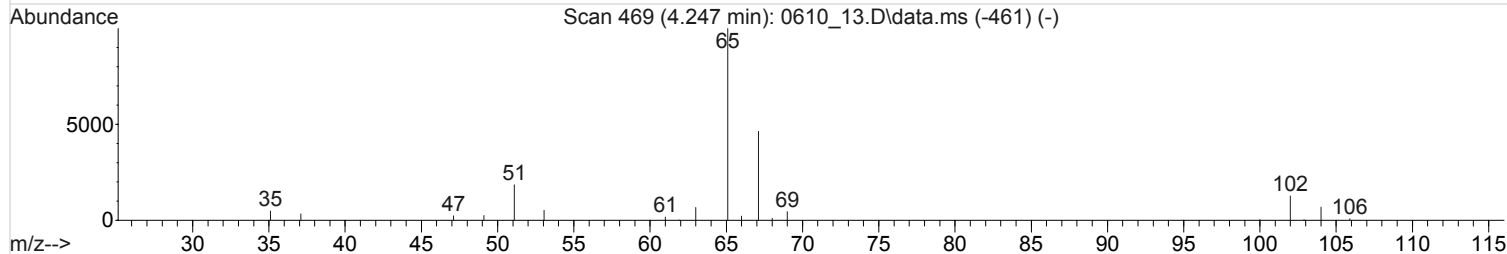
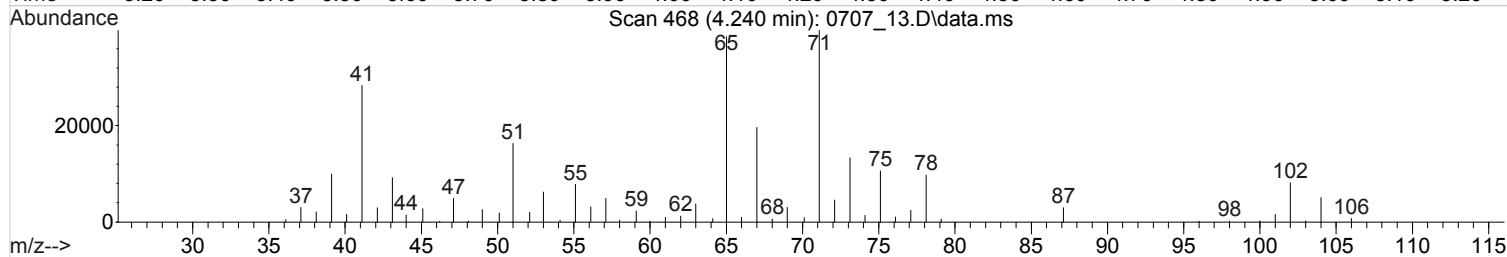
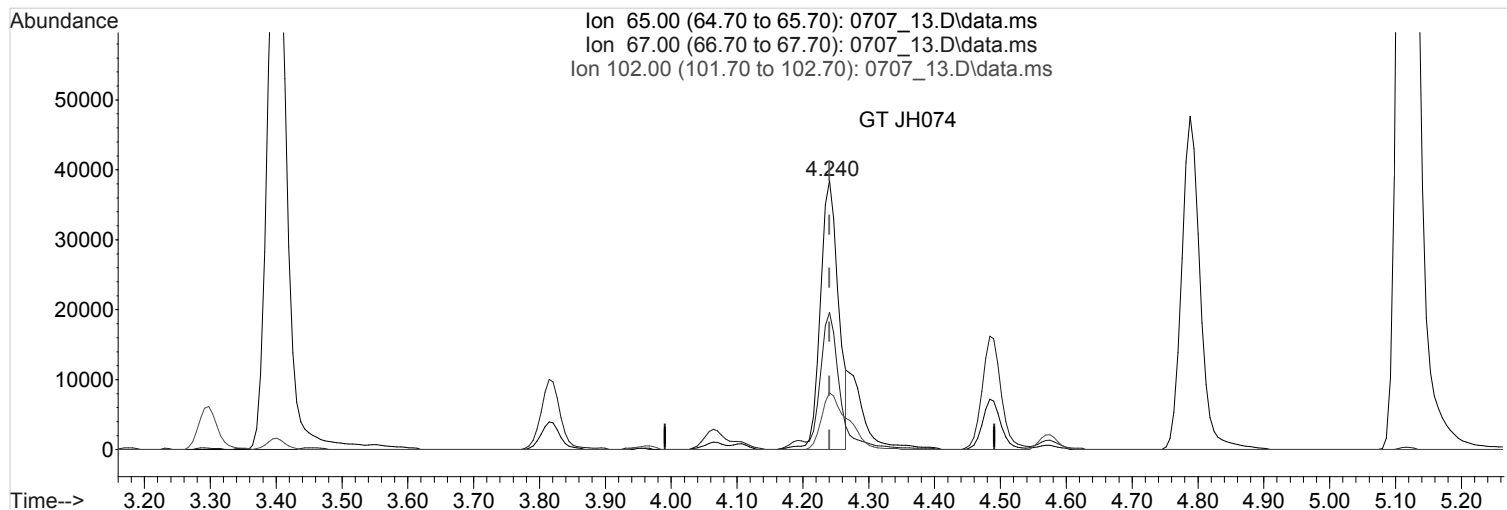
response 93038

Ion	Exp%	Act%
65.00	100	100
67.00	52.10	43.52
102.00	21.70	24.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_13.D
 Acq On : 7 Jul 2020 6:42 pm
 Operator : 988
 Sample : STD VMS 75 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:25:30 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration



TIC: 0707_13.D\data.ms

(48) 1,2-DICHLOROETHANE-D4 (S)

4.240min (-0.000) 20.4899121 ppb m

response 73507

Ion	Exp%	Act%
65.00	100	100
67.00	52.10	55.08
102.00	21.70	30.55#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_14.D
 Acq On : 7 Jul 2020 7:02 pm
 Operator : 988
 Sample : STD VMS 100 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:43:00 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.386	96	193614	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.303	82	83141	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.665	152	73120	16.0000000	ppb	# 0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.39
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.31
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.67
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.240	65	82881m	22.0406670	ppb	0.00
Spiked Amount 16.000			Recovery	= 137.75%		
61) TOLUENE-D8	5.299	98	292827	21.2372112	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	= 132.73%#		
80) 4-BROMOFLUOROBENZENE	7.142	95	105488	23.1484968	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	= 144.68%#		
Target Compounds						
					Qvalue	
4) PROPENE	1.600	41	279274	106.1269596	ppb	96
5) DICHLORODIFLUOROMETHANE	1.637	85	745306	117.1395232	ppb	99
6) CHLOROMETHANE	1.813	50	732623	99.4515886	ppb	99
7) VINYL CHLORIDE	1.862	62	594092	98.7189080	ppb	95
8) 1,3-BUTADIENE	1.880	39	439365	95.8819374	ppb	96
9) BROMOMETHANE	2.105	94	313619	54.2742153	ppb	97
10) CHLOROETHANE	2.184	64	217695	61.7829430	ppb	93
11) VINYL BROMIDE	2.269	106	382387	97.4297342	ppb	99
12) TRICHLOROFLUOROMETHANE	2.281	101	832393	118.7650435	ppb	99
13) DICHLOROFLUOROMETHANE	2.318	67	884771	90.0519528	ppb	94
14) ETHYL ETHER	2.482	59	287280	97.2348977	ppb	97
15) ACROLEIN	2.823	56	268060	557.7349878	ppb	88
16) ETHANOL	2.574	45	416609	5011.6876792	ppb	# 84
17) 1,1-DICHLOROETHENE	2.622	96	373080	98.8292365	ppb	93
18) 1,1,2-TRICHLOROTRIFLUO...	2.634	101	414477	115.9572221	ppb	98
19) ACETONE	2.987	43	985079	544.5878333	ppb	97
20) IODOMETHANE	2.726	142	3504808	515.8286938	ppb	99
21) CARBON DISULFIDE	2.659	76	1136720	101.0281789	ppb	99
22) ALLYL CHLORIDE	2.902	76	1060266	477.6975588	ppb	89
23) METHYLENE CHLORIDE	2.963	84	402066	90.8876387	ppb	99
24) METHYL ACETATE	3.042	43	1742752	489.7382976	ppb	# 97
25) ACRYLONITRILE	3.425	53	1146081	529.8266272	ppb	99
26) n-HEXANE	3.085	56	277090	112.8162535	ppb	# 95
27) TRANS-1,2-DICHLOROETHENE	3.054	96	394823	93.6426248	ppb	95
28) METHYL TERT-BUTYL ETHER	3.103	73	1131749	96.0662767	ppb	92
29) TERT-BUTYL ALCOHOL	3.139	59	446540	463.0280170	ppb	# 100
30) 1,1-DICHLOROETHANE	3.401	63	751470	96.4150195	ppb	99
31) VINYL ACETATE	3.504	43	4292331	598.4613708	ppb	100
32) DI-ISOPROPYL ETHER	3.291	45	1278123	95.5040310	ppb	98
33) ETHYL TERT-BUTYL ETHER	3.492	59	1162620	95.8008990	ppb	99
34) 2,2-DICHLOROPROPANE	3.754	77	675835	97.2647485	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.693	96	467195	98.5090173	ppb	99
36) 2-BUTANONE (MEK)	3.991	43	1575639	541.8377091	ppb	99
37) BROMOCHLOROMETHANE	3.808	130	224180	75.6074244	ppb	96
38) TETRAHYDROFURAN	3.930	42	190213	75.8737207	ppb	89
39) CHLOROFORM	3.833	83	776564	95.4698780	ppb	99
40) CYCLOHEXANE	3.815	84	588939	111.4133492	ppb	98
41) 1,1,1-TRICHLOROETHANE	3.961	97	720790	99.0886448	ppb	98

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_14.D
 Acq On : 7 Jul 2020 7:02 pm
 Operator : 988
 Sample : STD VMS 100 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:43:00 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
42) CARBON TETRACHLORIDE	3.924	117	651591	96.9565774	ppb		94
43) 1,1-DICHLOROPROPENE	4.027	75	582957	100.4731451	ppb		99
44) 2,2,4-TRIMETHYLPENTANE	4.064	57	724510	107.1951482	ppb		94
45) n-Heptane	4.107	71	206474	123.2012195	ppb	#	93
46) BENZENE	4.161	78	1710597	98.0945789	ppb		96
47) TERT-AMYL METHYL ETHER	4.192	73	1140797	95.5222562	ppb		98
49) 1,2-DICHLOROETHANE	4.277	62	536720	99.9940575	ppb		99
50) T-AMYL ALCOHOL	4.283	59	431029	518.6231598	ppb		92
51) TRICHLOROETHENE	4.484	132	488579	100.8372169	ppb		92
52) METHYL CYCLOHEXANE	4.484	83	623394	116.2492592	ppb		97
53) TERT-AMYL ETHYL ETHER	4.575	59	905352	99.9951627	ppb		97
54) 1,2-DICHLOROPROPANE	4.788	62	289209	101.7386137	ppb		95
55) DIBROMOMETHANE	4.739	93	260051	102.9526044	ppb		95
56) BROMODICHLOROMETHANE	4.812	83	578485	101.3470995	ppb		99
57) 2-CHLOROETHYL VINYL ETHER	5.116	63	1546710	520.1574140	ppb		100
58) CIS-1,3-DICHLOROPROPENE	5.183	75	659731	104.1022002	ppb		95
60) 4-METHYL-2-PENTANONE (...)	5.536	43	3210487	463.2312258	ppb		100
62) TOLUENE	5.329	91	1907968	91.3250541	ppb		100
63) TRANS-1,3-DICHLOROPROPENE	5.579	75	587663	109.9875591	ppb		97
64) 1,1,2-TRICHLOROETHANE	5.682	97	382002	94.2673375	ppb		98
65) TETRACHLOROETHENE	5.579	164	427788	95.6214858	ppb		98
66) 1,3-DICHLOROPROPANE	5.871	76	625675	97.4528155	ppb		95
67) 2-HEXANONE	6.072	58	1382668	498.7788280	ppb		97
68) CHLORODIBROMOMETHANE	5.810	129	499826	102.6287155	ppb		100
69) 1,2-DIBROMOETHANE	5.986	107	426962	98.4065428	ppb		96
70) CHLOROBENZENE	6.315	112	1224019	92.9497125	ppb		97
71) 1,1,1,2-TETRACHLOROETHANE	6.351	133	427898	97.2593567	ppb	#	100
72) ETHYLBENZENE	6.309	106	705051	102.0175103	ppb		89
73) M&P-XYLENE	6.406	106	1676416	187.2325873	ppb		100
74) O-XYLENE	6.710	106	827854	97.7032069	ppb		99
77) STYRENE	6.747	104	1296208	104.5119164	ppb	#	82
78) BROMOFORM	6.789	173	427520	105.4397466	ppb		99
79) ISOPROPYLBENZENE	6.923	105	2083554	100.4363217	ppb		98
82) BROMOBENZENE	7.221	77	797917	102.3491262	ppb		95
83) 1,1,2,2-TETRACHLOROETHANE	7.252	83	647476	99.5693857	ppb		100
84) 1,2,3-TRICHLOROPROPANE	7.343	110	188972	93.0780873	ppb		79
85) TRANS-1,4-DICHLORO-2-B...	7.349	53	177185	95.4323264	ppb	#	77
86) N-PROPYLBENZENE	7.209	91	2313874	105.1355446	ppb		100
87) 4-ETHYLTOLUENE	7.270	105	1836557	108.1022180	ppb		99
88) 2-CHLOROTOLUENE	7.319	91	1392387	102.6125159	ppb		97
89) 4-CHLOROTOLUENE	7.398	91	1227927	106.2287719	ppb		99
90) 1,3,5-TRIMETHYLBENZENE	7.319	105	1544796	93.6493011	ppb		98
91) TERT-BUTYLBENZENE	7.471	119	1363346	100.3300877	ppb		98
92) 1,2,4-TRIMETHYLBENZENE	7.501	105	1383046	104.1872321	ppb		98
93) SEC-BUTYLBENZENE	7.544	105	1605552	99.2506037	ppb		96
94) 1,3-DICHLOROBENZENE	7.641	146	767393	98.9161627	ppb		93
95) P-ISOPROPYLTOLUENE	7.592	119	1413557	103.4238068	ppb		99
96) DICYCLOPENTADIENE	7.599	66	1504166	90.6062969	ppb		95
97) 1,4-DICHLOROBENZENE	7.672	146	792174	106.8843109	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.665	105	1012247	95.9706514	ppb		97
99) 1,2-DICHLOROBENZENE	7.830	146	777963	106.7313418	ppb		96
100) N-BUTYLBENZENE	7.751	91	1162836	103.1418715	ppb		98
101) 1,2-DIBROMO-3-CHLOROPR...	8.116	157	201933	105.7992361	ppb		90
102) 1,3,5-TRICHLOROBENZENE	8.128	180	491230	104.5135904	ppb		100
103) 1,2,4-TRICHLOROBENZENE	8.359	180	423689	103.2721812	ppb		97

Data Path : C:\msdchem\1\data\070720\
Data File : 0707_14.D
Acq On : 7 Jul 2020 7:02 pm
Operator : 988
Sample : STD VMS 100 PPB 20G07476
Misc : waterIS/SURR20G06381
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS7

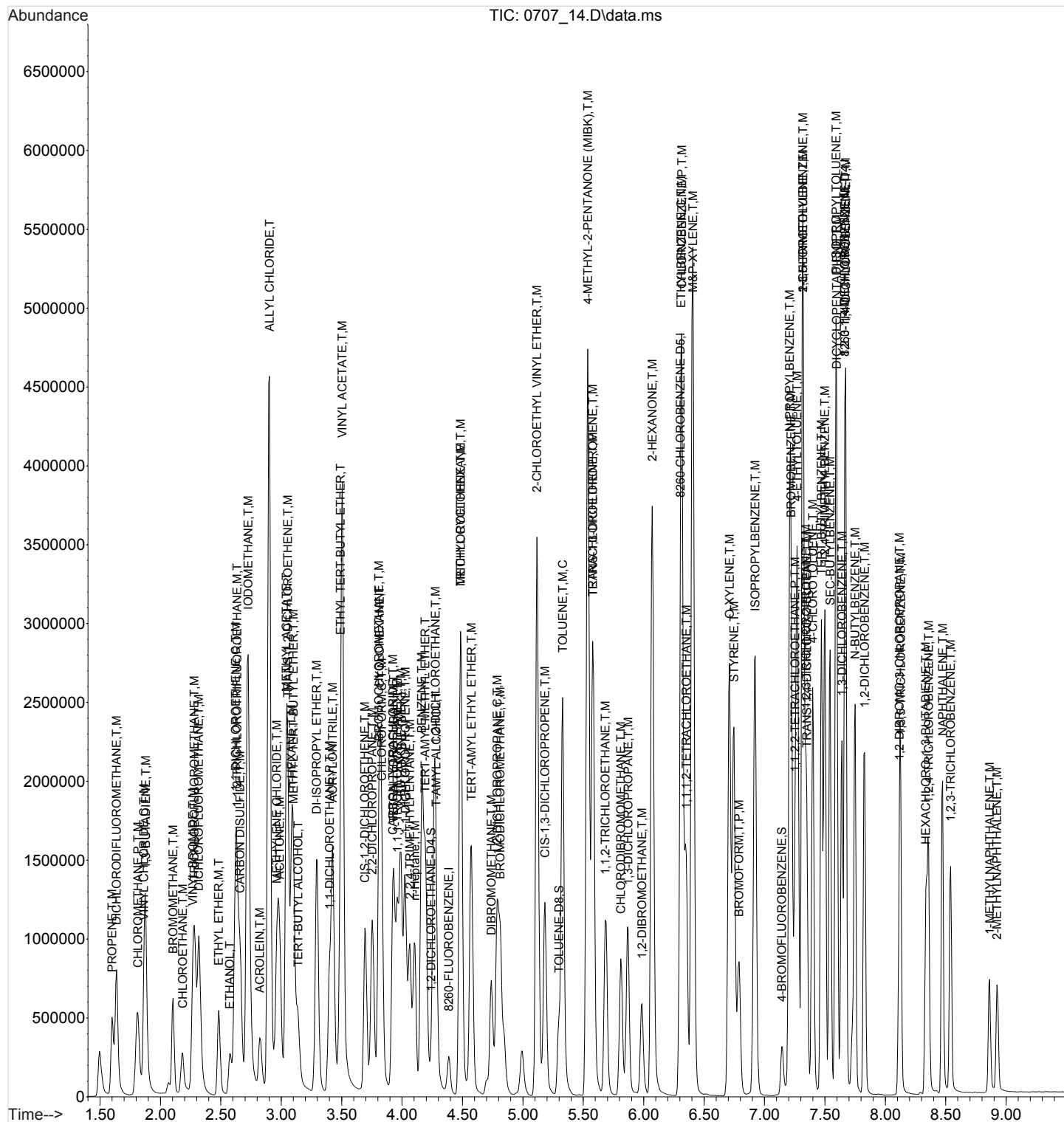
Quant Time: Jul 08 08:43:00 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 08:24:40 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) HEXACHLORO-1,3-BUTADIENE	8.335	225	204399	99.5314493	ppb	97
105) NAPHTHALENE	8.475	128	1346314	107.2368341	ppb	98
106) 1,2,3-TRICHLOROBENZENE	8.541	180	388216	102.6105743	ppb	99
107) 1-METHYLNAPHTHALENE	8.864	142	306318	125.9912367	ppb	96
108) 2-METHYLNAPHTHALENE	8.925	142	283281	107.4752806	ppb	88

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

Data Path : C:\msdchem\1\data\070720\
Data File : 0707_14.D
Acq On : 7 Jul 2020 7:02 pm
Operator : 988
Sample : STD VMS 100 PPB 20G07476
Misc : waterIS/SURR20G06381
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS7

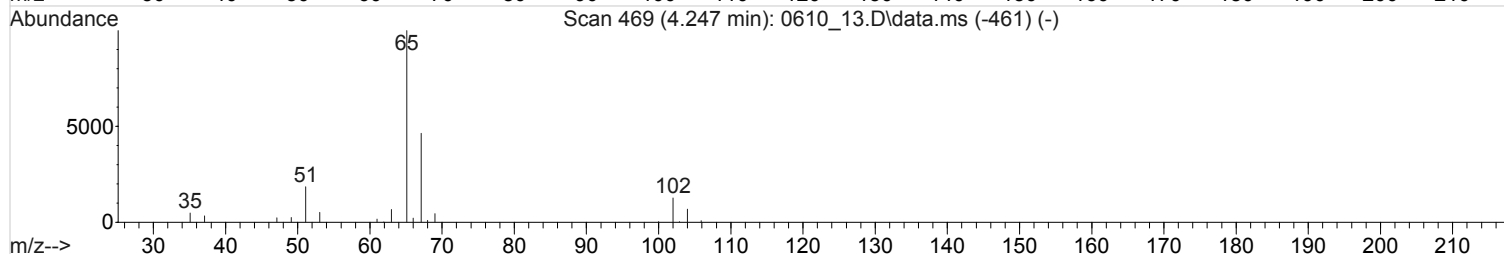
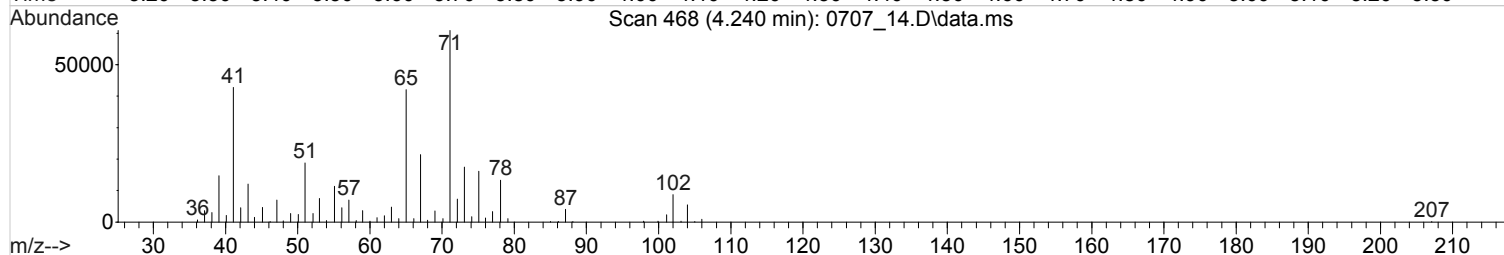
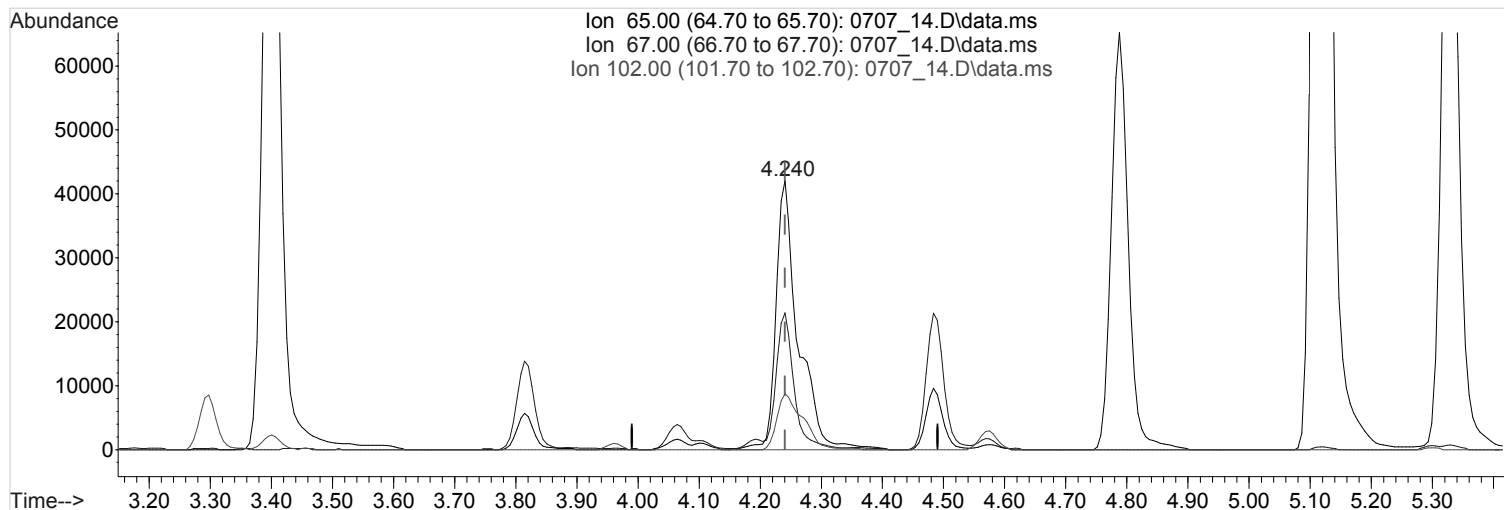
Quant Time: Jul 08 08:43:00 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 08:24:40 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_14.D
 Acq On : 7 Jul 2020 7:02 pm
 Operator : 988
 Sample : STD VMS 100 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:25:34 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration



TIC: 0707_14.D\data.ms

(48) 1,2-DICHLOROETHANE-D4 (S)

4.240min (-0.000) 28.3195752 ppb

Qvalue = 86

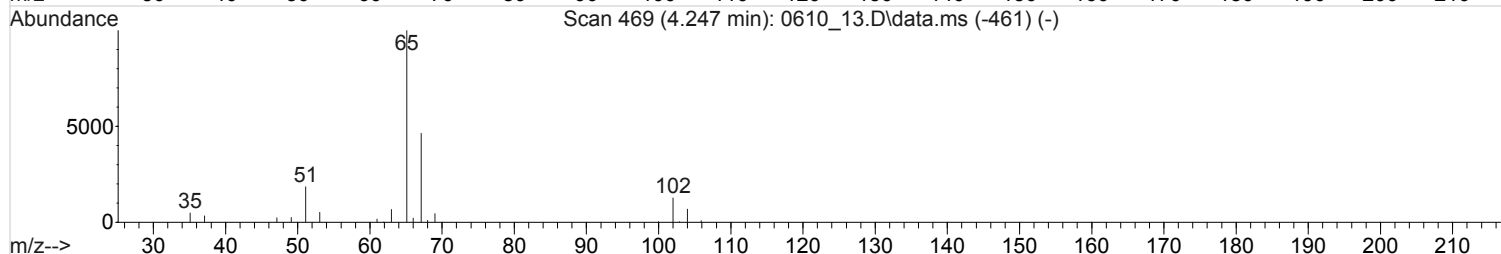
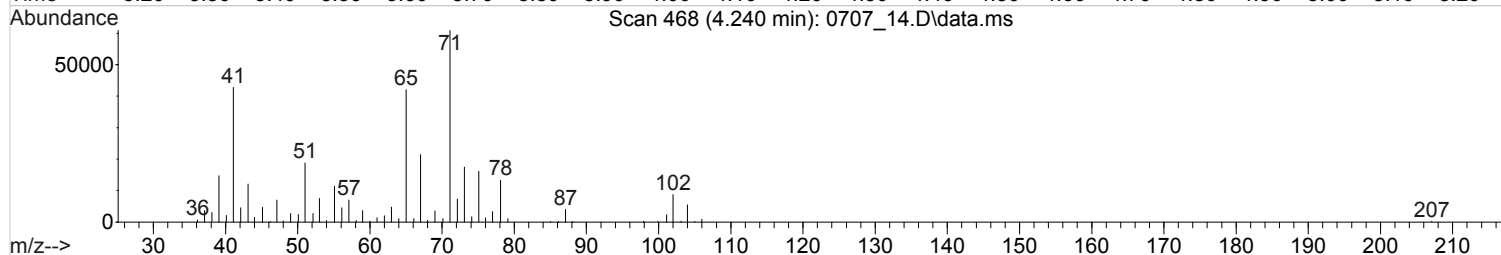
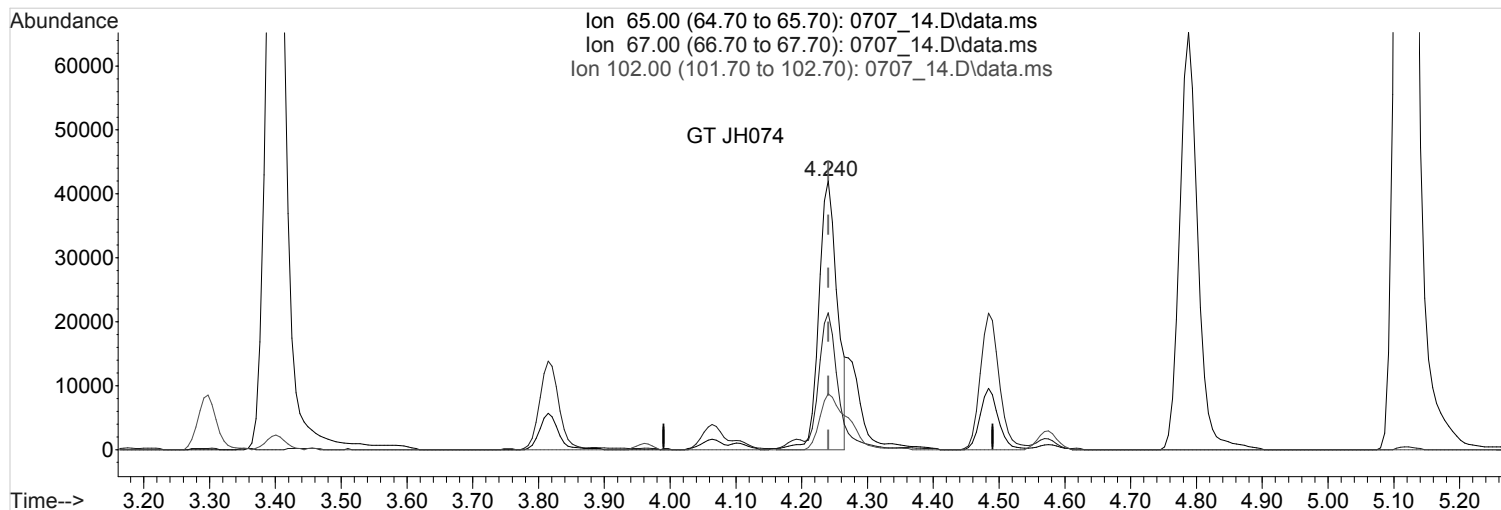
response 106492

Ion	Exp%	Act%
65.00	100	100
67.00	52.10	39.63#
102.00	21.70	24.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_14.D
 Acq On : 7 Jul 2020 7:02 pm
 Operator : 988
 Sample : STD VMS 100 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:25:34 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration



TIC: 0707_14.D\data.ms

(48) 1,2-DICHLOROETHANE-D4 (S)

4.240min (-0.000) 22.0406670 ppb m

response 82881

Ion	Exp%	Act%
65.00	100	100
67.00	52.10	50.91
102.00	21.70	31.17#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_15.D
 Acq On : 7 Jul 2020 7:22 pm
 Operator : 988
 Sample : STD VMS 200 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 15 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:44:49 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.386	96	196578	16.0000000	ppb	# 0.00
59) 8260-CHLOROBENZENE-D5	6.303	82	81549	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.665	152	80182	16.0000000	ppb	# 0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.39
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.31
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-7.67
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.240	65	94344	24.7107474	ppb	0.00
Spiked Amount 16.000			Recovery	= 154.44%		
61) TOLUENE-D8	5.299	98	309822	22.9084246	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	= 143.18%#		
80) 4-BROMOFLUOROBENZENE	7.142	95	120542	26.9683721	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	= 168.55%#		
Target Compounds						
					Qvalue	
4) PROPENE	1.600	41	566634	212.0799891	ppb	95
5) DICHLORODIFLUOROMETHANE	1.637	85	1509106	233.6094599	ppb	100
6) CHLOROMETHANE	1.807	50	1689130	225.8375202	ppb	99
7) VINYL CHLORIDE	1.862	62	1068078	174.8040350	ppb	95
8) 1,3-BUTADIENE	1.880	39	816629	175.5245979	ppb	93
9) BROMOMETHANE	2.099	94	497984	84.8805964	ppb	97
10) CHLOROETHANE	2.172	64	103395	28.9015756	ppb	97
11) VINYL BROMIDE	2.251	106	664910	166.8603339	ppb	99
12) TRICHLOROFLUOROMETHANE	2.269	101	1647586	231.5315350	ppb	99
13) DICHLOROFLUOROMETHANE	2.312	67	1702332	170.6508138	ppb	94
14) ETHYL ETHER	2.482	59	550117	183.3891682	ppb	97
15) ACROLEIN	2.823	56	540890	1108.4259219	ppb	89
16) ETHANOL	2.586	45	909015	10770.3110435	ppb	# 99
17) 1,1-DICHLOROETHENE	2.616	96	736491	192.1554743	ppb	93
18) 1,1,2-TRICHLOROTRIFLUO...	2.628	101	809282	222.9970373	ppb	99
19) ACETONE	2.987	43	1921170	1046.0790757	ppb	99
20) IODOMETHANE	2.719	142	5363527	777.4877977	ppb	98
21) CARBON DISULFIDE	2.653	76	1939344	169.7640469	ppb	99
22) ALLYL CHLORIDE	2.896	76	1794147	796.1557856	ppb	86
23) METHYLENE CHLORIDE	2.963	84	766665	170.6927021	ppb	100
24) METHYL ACETATE	3.042	43	3300348	913.4611019	ppb	# 95
25) ACRYLONITRILE	3.425	53	2223762	1012.5316741	ppb	99
26) n-HEXANE	3.084	56	484306	194.2104145	ppb	# 96
27) TRANS-1,2-DICHLOROETHENE	3.054	96	742251	173.3898900	ppb	97
28) METHYL TERT-BUTYL ETHER	3.103	73	2193138	183.3532635	ppb	96
29) TERT-BUTYL ALCOHOL	3.145	59	948525	968.7183564	ppb	# 100
30) 1,1-DICHLOROETHANE	3.401	63	1457107	184.1307557	ppb	99
31) VINYL ACETATE	3.504	43	6484062	890.4138819	ppb	99
32) DI-ISOPROPYL ETHER	3.291	45	2453402	180.5591962	ppb	99
33) ETHYL TERT-BUTYL ETHER	3.492	59	2246392	182.3136492	ppb	98
34) 2,2-DICHLOROPROPANE	3.754	77	1307199	185.2927134	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.693	96	899452	186.7917270	ppb	98
36) 2-BUTANONE (MEK)	3.991	43	2949013	998.8287554	ppb	98
37) BROMOCHLOROMETHANE	3.808	130	406568	135.0524969	ppb	96
38) TETRAHYDROFURAN	3.930	42	380875	149.6357962	ppb	91
39) CHLOROFORM	3.833	83	1469790	177.9697733	ppb	99
40) CYCLOHEXANE	3.815	84	1097447	204.4806967	ppb	95
41) 1,1,1-TRICHLOROETHANE	3.961	97	1383436	187.3165085	ppb	99

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_15.D
 Acq On : 7 Jul 2020 7:22 pm
 Operator : 988
 Sample : STD VMS 200 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 15 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:44:49 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
42) CARBON TETRACHLORIDE	3.924	117	1274854	186.8376927	ppb		94
43) 1,1-DICHLOROPROPENE	4.021	75	1100257	186.7710073	ppb		99
44) 2,2,4-TRIMETHYLPENTANE	4.064	57	1352281	197.0604799	ppb		94
45) n-Heptane	4.100	71	350311	205.8757789	ppb	#	94
46) BENZENE	4.161	78	3188445	180.0852223	ppb		95
47) TERT-AMYL METHYL ETHER	4.192	73	2203043	181.6858146	ppb		98
49) 1,2-DICHLOROETHANE	4.277	62	1044734	191.7052411	ppb		99
50) T-AMYL ALCOHOL	4.283	59	905658	1073.2761754	ppb		90
51) TRICHLOROETHENE	4.484	132	945346	192.1669470	ppb		92
52) METHYL CYCLOHEXANE	4.484	83	1131332	207.7875358	ppb		98
53) TERT-AMYL ETHYL ETHER	4.569	59	1748160	190.1711138	ppb		97
54) 1,2-DICHLOROPROPANE	4.788	62	554365	192.0753619	ppb		94
55) DIBROMOMETHANE	4.739	93	512395	199.7954242	ppb		94
56) BROMODICHLOROMETHANE	4.812	83	1111696	191.8258405	ppb		99
57) 2-CHLOROETHYL VINYL ETHER	5.116	63	2919410	966.9918999	ppb		99
58) CIS-1,3-DICHLOROPROPENE	5.183	75	1266499	196.8338165	ppb		95
60) 4-METHYL-2-PENTANONE (...)	5.536	43	5876973	864.5243114	ppb		97
62) TOLUENE	5.329	91	3539042	172.7035132	ppb		99
63) TRANS-1,3-DICHLOROPROPENE	5.579	75	1142276	217.9630480	ppb		96
64) 1,1,2-TRICHLOROETHANE	5.682	97	755991	190.1992646	ppb		98
65) TETRACHLOROETHENE	5.579	164	815320	185.8025156	ppb		98
66) 1,3-DICHLOROPROPANE	5.865	76	1208847	191.9612325	ppb		94
67) 2-HEXANONE	6.072	58	2680567	985.8557398	ppb		93
68) CHLORODIBROMOMETHANE	5.810	129	991083	207.4706562	ppb		99
69) 1,2-DIBROMOETHANE	5.980	107	853333	200.5163984	ppb		97
70) CHLOROBENZENE	6.315	112	2343837	181.4612513	ppb		96
71) 1,1,1,2-TETRACHLOROETHANE	6.351	133	849007	196.7428738	ppb	#	100
72) ETHYLBENZENE	6.309	106	1329566	196.1375256	ppb		88
73) M&P-XYLENE	6.406	106	3153585	359.0879129	ppb		96
74) O-XYLENE	6.710	106	1616328	194.4827862	ppb		97
77) STYRENE	6.747	104	2515563	206.7868493	ppb	#	82
78) BROMOFORM	6.789	173	883274	222.0956067	ppb		99
79) ISOPROPYLBENZENE	6.923	105	4030498	198.0803306	ppb		99
82) BROMOBENZENE	7.221	77	1583777	185.2591858	ppb		96
83) 1,1,2,2-TETRACHLOROETHANE	7.252	83	1304619	182.9553653	ppb		100
84) 1,2,3-TRICHLOROPROPANE	7.343	110	389033	174.7413679	ppb		76
85) TRANS-1,4-DICHLORO-2-B...	7.349	53	351806	172.7949706	ppb	#	69
86) N-PROPYLBENZENE	7.209	91	4505283	186.6771822	ppb		98
87) 4-ETHYLTOLUENE	7.276	105	3710740	199.1819668	ppb		97
88) 2-CHLOROTOLUENE	7.319	91	2711877	182.2508917	ppb		98
89) 4-CHLOROTOLUENE	7.398	91	2507322	197.8057997	ppb		98
90) 1,3,5-TRIMETHYLBENZENE	7.319	105	3053229	168.7920863	ppb		97
91) TERT-BUTYLBENZENE	7.471	119	2745599	184.2559451	ppb		98
92) 1,2,4-TRIMETHYLBENZENE	7.501	105	2698594	185.3850566	ppb		99
93) SEC-BUTYLBENZENE	7.544	105	3197594	180.2566932	ppb		94
94) 1,3-DICHLOROBENZENE	7.641	146	1598928	187.9479672	ppb		92
95) P-ISOPROPYLTOLUENE	7.592	119	2763259	184.3690783	ppb		99
96) DICYCLOPENTADIENE	7.598	66	2875630m	157.9628341	ppb		
97) 1,4-DICHLOROBENZENE	7.672	146	1564721	192.5260881	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.665	105	1943370	168.0222269	ppb		95
99) 1,2-DICHLOROBENZENE	7.830	146	1538419	192.4717343	ppb		97
100) N-BUTYLBENZENE	7.751	91	2270384	183.6433280	ppb		98
101) 1,2-DIBROMO-3-CHLOROPR...	8.116	157	405686	193.8315878	ppb		88
102) 1,3,5-TRICHLOROBENZENE	8.128	180	979543	190.0512319	ppb		100
103) 1,2,4-TRICHLOROBENZENE	8.359	180	815351	181.2341633	ppb		96

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_15.D
 Acq On : 7 Jul 2020 7:22 pm
 Operator : 988
 Sample : STD VMS 200 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 15 Sample Multiplier: 1
 InstName : VOCMS7

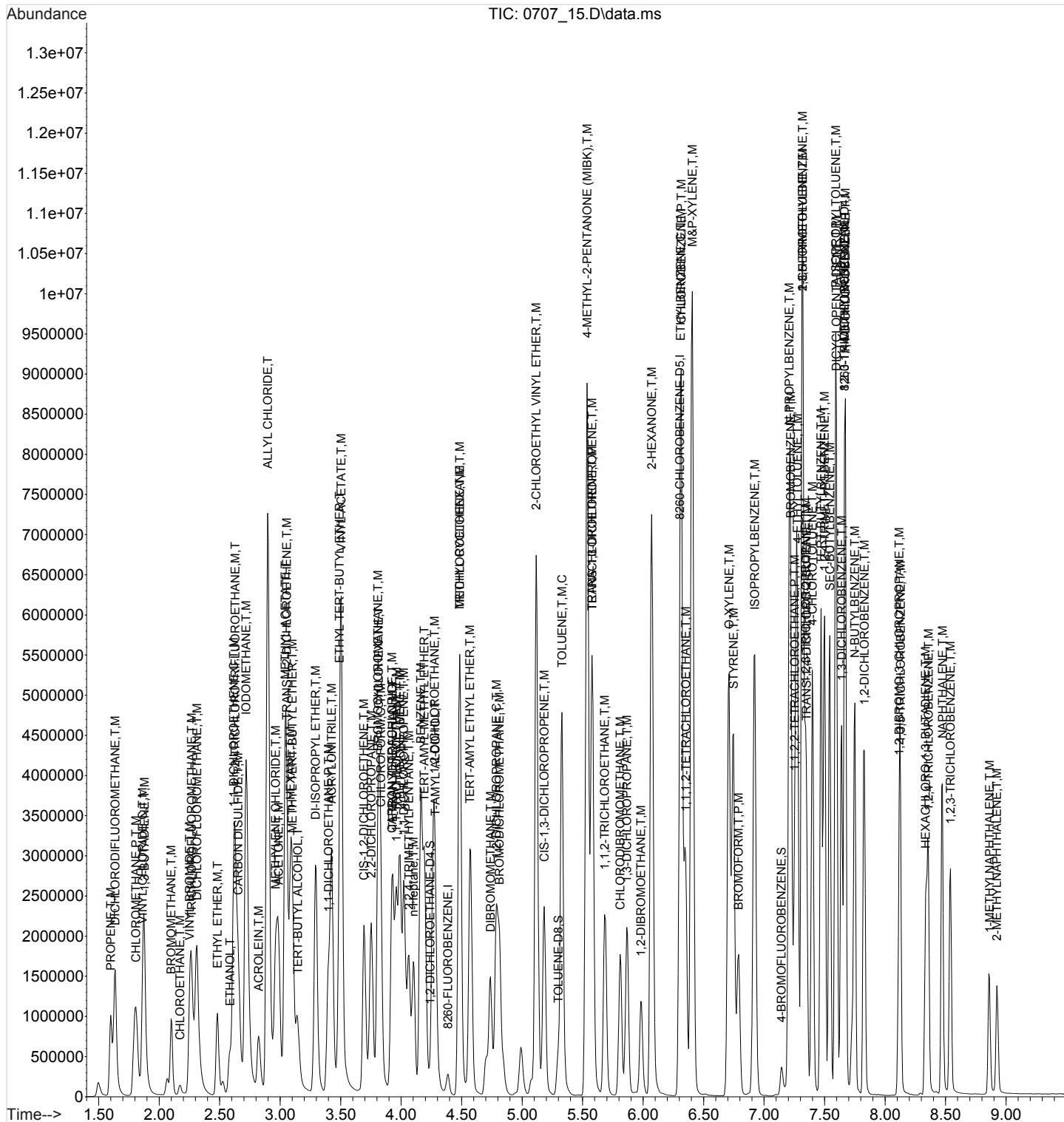
Quant Time: Jul 08 08:44:49 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
104) HEXACHLORO-1,3-BUTADIENE	8.335	225	396088	175.8865151	ppb		96
105) NAPHTHALENE	8.475	128	2644835	192.1124468	ppb		97
106) 1,2,3-TRICHLOROBENZENE	8.541	180	765620	184.5403142	ppb		99
107) 1-METHYLNAPHTHALENE	8.864	142	630701	236.5650805	ppb		95
108) 2-METHYLNAPHTHALENE	8.925	142	557527	192.8929447	ppb		88

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

Data Path : C:\msdchem\1\data\070720\
Data File : 0707_15.D
Acq On : 7 Jul 2020 7:22 pm
Operator : 988
Sample : STD VMS 200 PPB 20G07476
Misc : waterIS/SURR20G06381
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS7

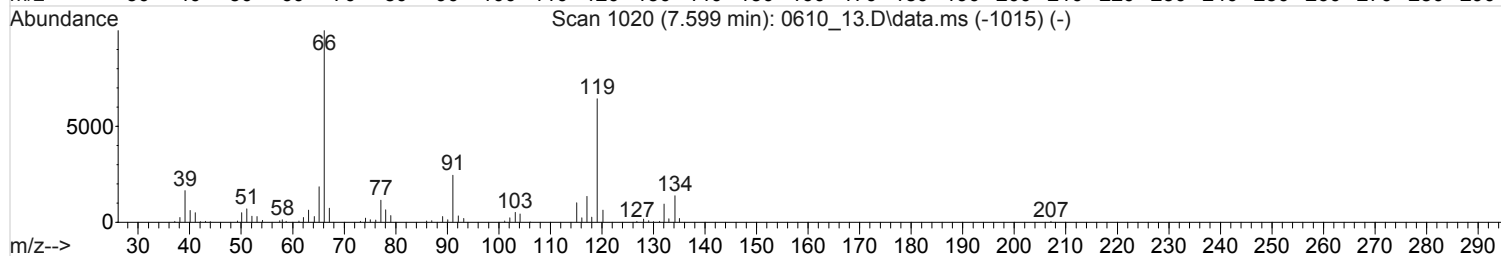
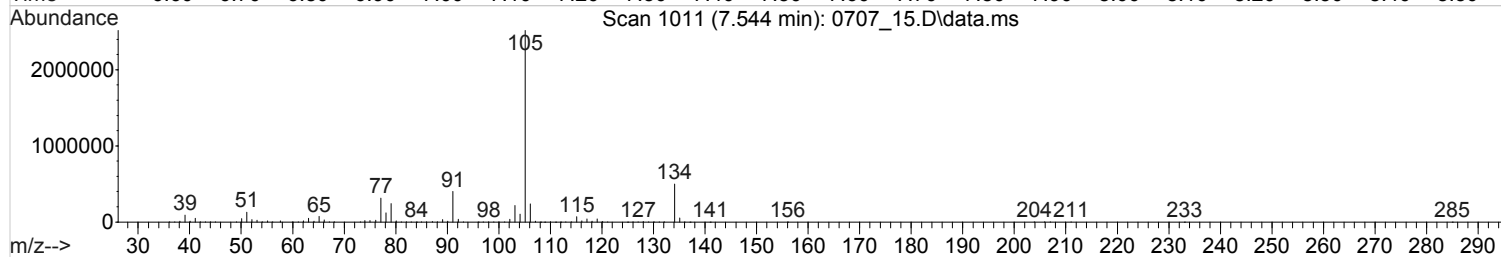
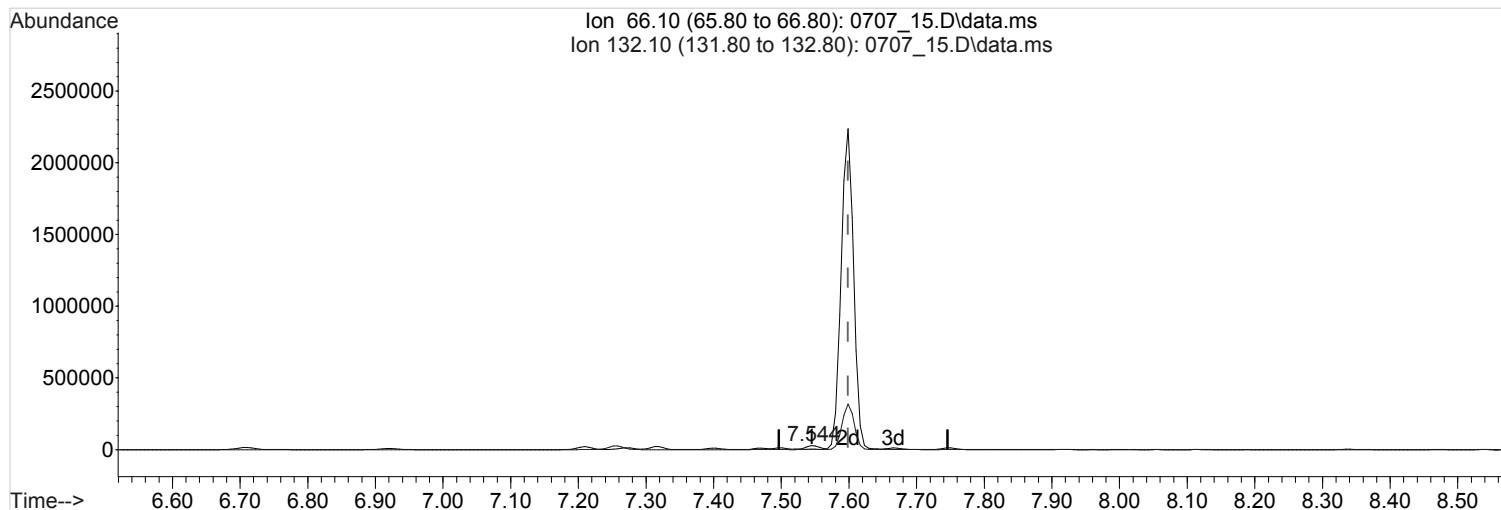
Quant Time: Jul 08 08:44:49 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 08:24:40 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_15.D
 Acq On : 7 Jul 2020 7:22 pm
 Operator : 988
 Sample : STD VMS 200 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 15 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:25:38 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration



TIC: 0707_15.D\data.ms

(96) DICYCLOPENTADIENE (T.M)

7.544min (-0.055) 1.9321626 ppb

Qvalue = 97

response 35174

Ion	Exp%	Act%
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66.10	100	100
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132.10	10.90	11.97
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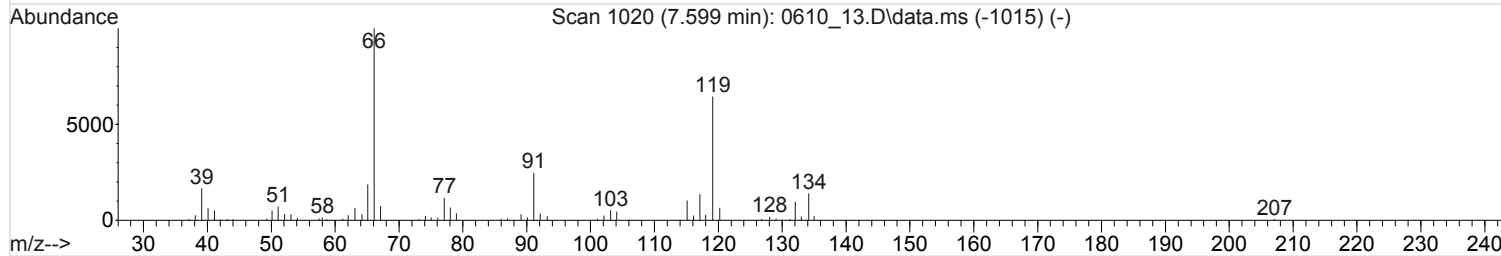
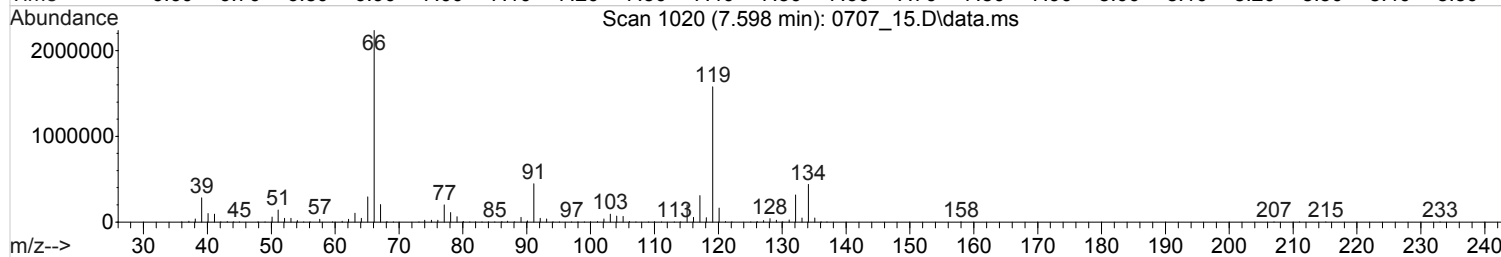
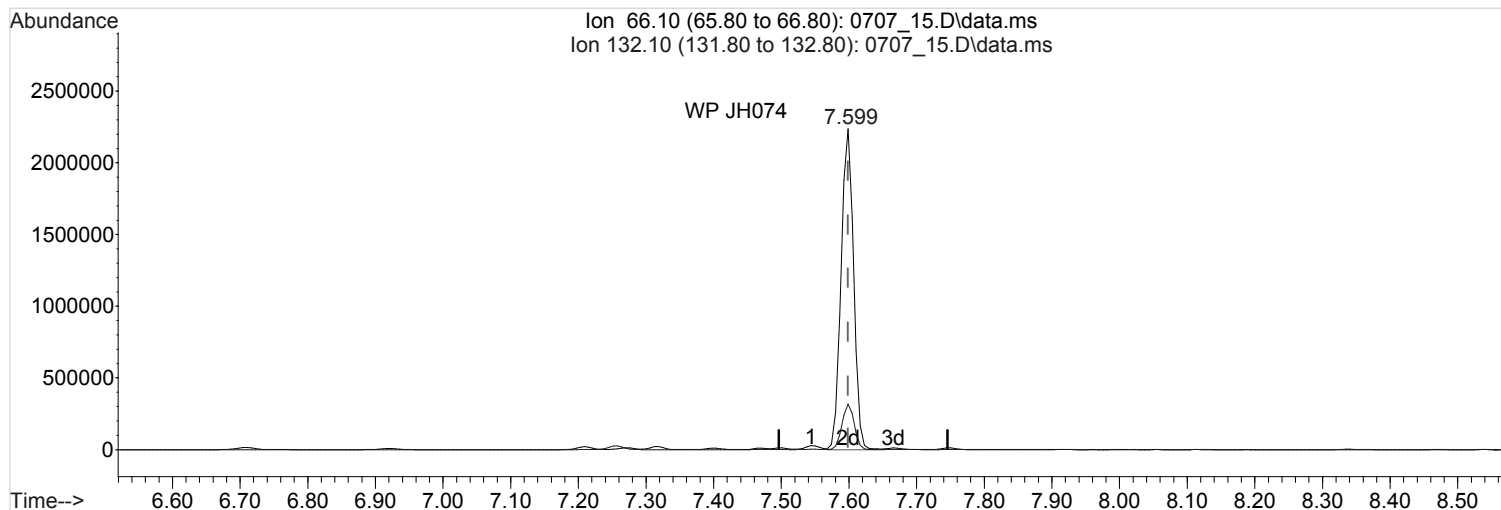
0.00	0.00	0.00
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0.00	0.00	0.00
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_15.D
 Acq On : 7 Jul 2020 7:22 pm
 Operator : 988
 Sample : STD VMS 200 PPB 20G07476
 Misc : waterIS/SURR20G06381
 ALS Vial : 15 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 08:25:38 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 08:24:40 2020
 Response via : Initial Calibration



TIC: 0707_15.D\data.ms

(96) DICYCLOPENTADIENE (T,M)

7.598min (-0.000) 157.9628341 ppb m

response 2875630

Ion	Exp%	Act%
66.10	100	100
132.10	10.90	0.15#
0.00	0.00	0.00
0.00	0.00	0.00



6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1253450
Instrument ID: VOCMS26

Analytical Method: 8260B

Analyte	RRF: 0.04	RRF: 0.1	RRF: 0.2	RRF: 0.5	RRF: 1	RRF: 2	RRF: 5.0	RRF: 25	RRF: 75	RRF: 100
Analysis date/time	08/19/20 21:03	08/19/20 21:23	08/19/20 21:44	08/19/20 22:04	08/19/20 22:25	08/19/20 22:45	08/19/20 23:05	08/19/20 23:26	08/19/20 23:46	08/20/20 00:07
VINYL CHLORIDE	0.2650	0.3690	0.32	0.2550	0.2740	0.2690	0.2690	0.29	0.3080	0.3040
METHYL TERT-BUTYL ETHER	0.88	0.9350	0.8430	0.71	0.7360	0.7510	0.7290	0.7340	0.7350	0.7080
DI-ISOPROPYL ETHER	1.4830	1.0920	1.0090	0.8380	0.8680	0.8460	0.8320	0.8460	0.8480	0.8180
BENZENE	1.2360	1.0960	1.1570	0.9050	1.0160	1.0250	0.9810	1.0190	1.0150	0.9810
TRICHLOROETHENE	0.3140	0.2940	0.2920	0.2680	0.2880	0.2890	0.2760	0.2940	0.2980	0.2880
M&P-XYLENE	1.09	1.0210	1.1050	0.9440	1.0240	0.9990	0.9850	0.9790	1.0070	0.9640
1,2-DICHLOROETHANE-D4	0.2950	0.2990	0.2950	0.2970	0.2970	0.2950	0.2990	0.3080	0.3450	0.3570
TOLUENE-D8	2.4060	2.38	2.43	2.3940	2.3940	2.3640	2.3320	2.2030	2.2610	2.2550
4-BROMOFLUOROBENZENE	0.9240	0.9270	0.9470	0.9350	0.9240	0.9010	0.8880	0.8470	0.87	0.87
DICHLORODIFLUOROMETHANE		0.6220	0.4590	0.2320	0.2770	0.2780	0.2760	0.30	0.3450	0.3270
BROMOMETHANE		0.23	0.2590	0.2020	0.2260	0.2380	0.2120	0.2170	0.2020	0.1890
CHLOROETHANE		0.31	0.2930	0.20	0.19	0.1790	0.1650	0.1620	0.1530	0.1550
TRICHLOROFLUOROMETHANE		0.4440	0.39	0.2230	0.3270	0.3170	0.3160	0.3480	0.39	0.3650
1,1-DICHLOROETHENE		0.32	0.2410	0.1880	0.2070	0.22	0.2140	0.2190	0.2290	0.2210
1,1,2-TRICHLOROTRIFLUOROETHANE		0.2110	0.2050	0.1170	0.1730	0.1870	0.1870	0.2130	0.2380	0.2280
ACRYLONITRILE		0.1760	0.1460	0.13	0.1380	0.1350	0.1340	0.1350	0.1340	0.13
TRANS-1,2-DICHLOROETHENE		0.5610	0.4040	0.2750	0.2810	0.2610	0.2490	0.2550	0.2540	0.2470
1,1-DICHLOROETHANE		0.5640	0.51	0.4180	0.4490	0.4530	0.4490	0.4610	0.4570	0.4430
2,2-DICHLOROPROPANE		0.6630	0.4840	0.3250	0.3510	0.3280	0.3260	0.32	0.32	0.2950
CIS-1,2-DICHLOROETHENE		0.3830	0.42	0.3050	0.3210	0.2820	0.2810	0.2880	0.2870	0.2790
2-BUTANONE (MEK)		0.2150	0.1890	0.17	0.1720	0.1770	0.1770	0.1810	0.1780	0.1720
CHLOROFORM		0.72	0.5310	0.44	0.47	0.4590	0.4520	0.4660	0.4640	0.4490
1,1,1-TRICHLOROETHANE		0.3930	0.3880	0.3230	0.3690	0.3680	0.3620	0.3880	0.4110	0.3960
1,1-DICHLOROPROPENE		0.3890	0.35	0.2580	0.3150	0.3260	0.3080	0.3290	0.3440	0.33
1,2-DICHLOROETHANE		0.4530	0.4660	0.3240	0.3510	0.3470	0.3420	0.3450	0.3440	0.3340
1,2-DICHLOROPROPANE		0.1820	0.1960	0.1770	0.1850	0.1960	0.1830	0.1860	0.1880	0.1810
DIBROMOMETHANE		0.2260	0.2270	0.1750	0.1780	0.1710	0.1730	0.1760	0.1770	0.1720
BROMODICHLOROMETHANE		0.5720	0.4090	0.33	0.3530	0.3660	0.3360	0.3550	0.3590	0.3460
CIS-1,3-DICHLOROPROPENE		0.42	0.4220	0.4010	0.42	0.4250	0.4130	0.4330	0.4380	0.4250
4-METHYL-2-PENTANONE (MIBK)		0.8160	0.9670	0.8070	0.8820	0.87	0.8630	0.8120	0.8160	0.7750
TOLUENE		3.0120	2.8710	2.5210	2.6460	2.6190	2.5390	2.4890	2.5810	2.4780
TRANS-1,3-DICHLOROPROPENE		0.8220	0.92	0.8270	0.9590	0.8690	0.8870	0.8740	0.9270	0.8840
1,1,2-TRICHLOROETHANE		0.69	0.6410	0.5380	0.6060	0.6040	0.5570	0.5330	0.55	0.53
TETRACHLOROETHENE		0.59	0.5280	0.4140	0.5060	0.4790	0.4650	0.4730	0.5020	0.4860
1,3-DICHLOROPROPANE		0.8950	1.0160	0.87	0.9520	0.91	0.9030	0.8770	0.9120	0.8850
CHLORODIBROMOMETHANE		0.7350	0.7710	0.6290	0.6760	0.6550	0.6650	0.6550	0.6850	0.6620
1,2-DIBROMOETHANE		0.7420	0.7380	0.5920	0.6260	0.62	0.6110	0.5920	0.6230	0.6050
CHLOROBENZENE		1.6980	1.9480	1.5540	1.6830	1.6360	1.6020	1.5670	1.6330	1.5730
1,1,1,2-TETRACHLOROETHANE		0.6770	0.7010	0.5540	0.6270	0.6170	0.5870	0.5690	0.6060	0.5830
ETHYLBENZENE		0.8810	0.9920	0.7150	0.8340	0.8330	0.7830	0.8090	0.8410	0.8070
O-XYLENE		1.0580	1.0210	0.8830	1.0320	0.9580	0.9620	0.9450	1.0020	0.9560
STYRENE		1.6830	1.7290	1.4530	1.6150	1.6320	1.6280	1.6080	1.6770	1.6240
BROMOFORM		0.55	0.5420	0.4570	0.5120	0.5240	0.5170	0.5080	0.5420	0.5160
ISOPROPYLBENZENE		2.73	2.6020	2.1360	2.2990	2.2540	2.1830	2.1980	2.3170	2.2020
BROMOBENZENE		1.3860	1.0950	0.9460	0.9440	1.0050	0.9990	1.02	1.0210	0.9860
1,1,2,2-TETRACHLOROETHANE		1.0680	0.95	0.7860	0.7780	0.8220	0.81	0.8070	0.7960	0.7640
1,2,3-TRICHLOROPROPANE		0.18	0.2970	0.25	0.2440	0.26	0.2610	0.2440	0.2460	0.2370
N-PROPYLBENZENE		2.4110	2.5010	2.24	2.4040	2.4370	2.4170	2.4690	2.4860	2.3790
2-CHLOROTOLUENE		1.6960	1.7230	1.4890	1.6540	1.6510	1.6330	1.6540	1.6390	1.5750
4-CHLOROTOLUENE		1.7490	1.7160	1.4260	1.5340	1.5330	1.5630	1.6090	1.6180	1.5640

ACCOUNT:

Patriot Engineering - Ft. Wayne

PROJECT:

16-1731-04E

SDG:

L1253450

DATE/TIME:

08/28/20 22:53

PAGE:

273 of 460



SDG: L1253450
Instrument ID: VOCMS26

Analytical Method: 8260B

Analyte	RRF: 0.04	RRF: 0.1	RRF: 0.2	RRF: 0.5	RRF: 1	RRF: 2	RRF: 5.0	RRF: 25	RRF: 75	RRF: 100
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1,3,5-TRIMETHYLBENZENE		1.8560	1.7350	1.5630	1.7060	1.7140	1.73	1.7390	1.7270	1.6430
TERT-BUTYLBENZENE		1.7750	1.6170	1.2790	1.45	1.4190	1.4140	1.4550	1.4670	1.3890
1,2,4-TRIMETHYLBENZENE		1.73	1.9310	1.5270	1.6820	1.6850	1.6560	1.7180	1.7280	1.6530
SEC-BUTYLBENZENE		2.1740	1.9990	1.5740	1.78	1.8340	1.7940	1.8570	1.8930	1.7970
1,3-DICHLOROBENZENE		0.9410	1.0450	0.9260	0.9650	0.9830	0.9970	1.0020	1.0070	0.9770
P-ISOPROPYL TOLUENE		1.7890	1.7110	1.4320	1.6070	1.6670	1.65	1.6960	1.7140	1.6420
1,4-DICHLOROBENZENE		1.1630	1.0610	0.97	0.9780	1	0.9950	1.0130	1.0230	0.9880
1,2,3-TRIMETHYLBENZENE		1.8890	1.7380	1.30	1.4020	1.3680	1.3870	1.3870	1.3790	1.3190
1,2-DICHLOROBENZENE		0.9360	0.9440	0.86	0.9790	0.9390	0.9380	0.9740	0.9890	0.9510
N-BUTYLBENZENE		1.3840	1.2560	1.0620	1.15	1.1870	1.2240	1.2930	1.3250	1.2770
1,2-DIBROMO-3-CHLOROPROPANE		0.1440	0.2350	0.2270	0.2460	0.2210	0.2250	0.2340	0.2370	0.2310
1,2,4-TRICHLOROBENZENE		0.2720	0.43	0.4020	0.3980	0.4330	0.4370	0.4760	0.4810	0.4560
HEXACHLORO-1,3-BUTADIENE		0.23	0.1770	0.1610	0.1930	0.1940	0.2030	0.21	0.2140	0.2060
NAPHTHALENE		1.91	1.7150	1.5440	1.65	1.5860	1.6630	1.7650	1.8050	1.7160
1,2,3-TRICHLOROBENZENE		0.4220	0.3780	0.3730	0.4170	0.4060	0.3990	0.4350	0.4430	0.4180
ACROLEIN			0.0350	0.0150	0.0130	0.0110	0.0110	0.0130	0.0160	
ACETONE			0.2320	0.1440	0.1210	0.1070	0.1030	0.1030	0.1060	0.1010
CARBON TETRACHLORIDE			0.3790	0.2610	0.32	0.3280	0.3180	0.3380	0.3620	0.3450
CHLOROMETHANE				0.2990	0.3150	0.3070	0.3210	0.2890	0.3050	0.3030
METHYLENE CHLORIDE				0.3460	0.3020	0.2730	0.2580	0.2550	0.2520	0.2420
File ID:	0819_05	0819_06	0819_07	0819_08	0819_09	0819_10	0819_11	0819_12	0819_13	0819_14



SDG:

L1253450

Analytical Method:

8260B

Instrument ID:

VOCMS26

Analyte	RRF: 200	RRF. Avg	%RSD	COD
Analysis date/time	08/20/20			
	00:27			
VINYL CHLORIDE	0.2940	0.292461	11.1	
METHYL TERT-BUTYL ETHER	0.6820	0.767664	10.53	
DI-ISOPROPYL ETHER	0.7920	0.933833	21.76	0.999
BENZENE	0.9190	1.031844	9.51	
TRICHLOROETHENE	0.2740	0.288735	4.34	
M&P-XYLENE	0.9560	1.006773	5.15	
1,2-DICHLOROETHANE-D4	0.3090	0.308765	7	
TOLUENE-D8	2.2570	2.334339	3.3	
4-BROMOFLUOROBENZENE	0.8770	0.900979	3.63	
DICHLORODIFLUOROMETHANE	0.3330	0.345023	33.31	0.998
BROMOMETHANE	0.1610	0.213457	12.83	
CHLOROETHANE		0.200825	29.65	0.999
TRICHLOROFLUOROMETHANE	0.3520	0.347117	16.87	0.998
1,1-DICHLOROETHENE	0.1950	0.22539	16.25	0.995
1,1,2-TRICHLOROTRIFLUOROETHANE	0.2070	0.196513	17.35	0.996
ACRYLONITRILE	0.1260	0.138541	10.32	
TRANS-1,2-DICHLOROETHENE	0.22	0.300724	34.58	0.996
1,1-DICHLOROETHANE	0.42	0.462399	9.44	
2,2-DICHLOROPROPANE	0.27	0.368115	32.09	0.995
CIS-1,2-DICHLOROETHENE	0.2680	0.311411	16.17	0.999
2-BUTANONE (MEK)	0.1690	0.180053	7.51	
CHLOROFORM	0.4330	0.488156	17.55	0.999
1,1,1-TRICHLOROETHANE	0.3840	0.378311	6.42	
1,1-DICHLOROPROPENE	0.3110	0.326031	10.3	
1,2-DICHLOROETHANE	0.3160	0.362287	14.49	
1,2-DICHLOROPROPANE	0.1780	0.185049	3.58	
DIBROMOMETHANE	0.1690	0.184292	12.2	
BROMODICHLOROMETHANE	0.3460	0.377151	18.99	1
CIS-1,3-DICHLOROPROPENE	0.4180	0.421541	2.41	
4-METHYL-2-PENTANONE (MIBK)	0.7490	0.835687	7.42	
TOLUENE	2.4060	2.616265	7.18	
TRANS-1,3-DICHLOROPROPENE	0.9050	0.887309	4.84	
1,1,2-TRICHLOROETHANE	0.55	0.57979	9.25	
TETRACHLOROETHENE	0.4740	0.491734	9.33	
1,3-DICHLOROPROPANE	0.9040	0.912541	4.7	
CHLORODIBROMOMETHANE	0.6960	0.682885	6.15	
1,2-DIBROMOETHANE	0.6190	0.636899	8.76	
CHLOROBENZENE	1.5810	1.647451	7.07	
1,1,1,2-TETRACHLOROETHANE	0.6060	0.612696	7.53	
ETHYLBENZENE	0.8160	0.831226	8.56	
O-XYLENE	0.9870	0.980325	5.14	
STYRENE	1.6890	1.63389	4.58	
BROMOFORM	0.5560	0.522598	5.47	
ISOPROPYLBENZENE	2.2490	2.316791	8.37	
BROMOBENZENE	1.0290	1.042975	12.27	
1,1,2,2-TETRACHLOROETHANE	0.8130	0.839382	11.33	
1,2,3-TRICHLOROPROPANE	0.2520	0.247011	11.69	
N-PROPYLBENZENE	2.3990	2.414168	3.03	
2-CHLOROTOLUENE	1.5960	1.630891	4.02	
4-CHLOROTOLUENE	1.6240	1.593657	5.85	



SDG:

L1253450

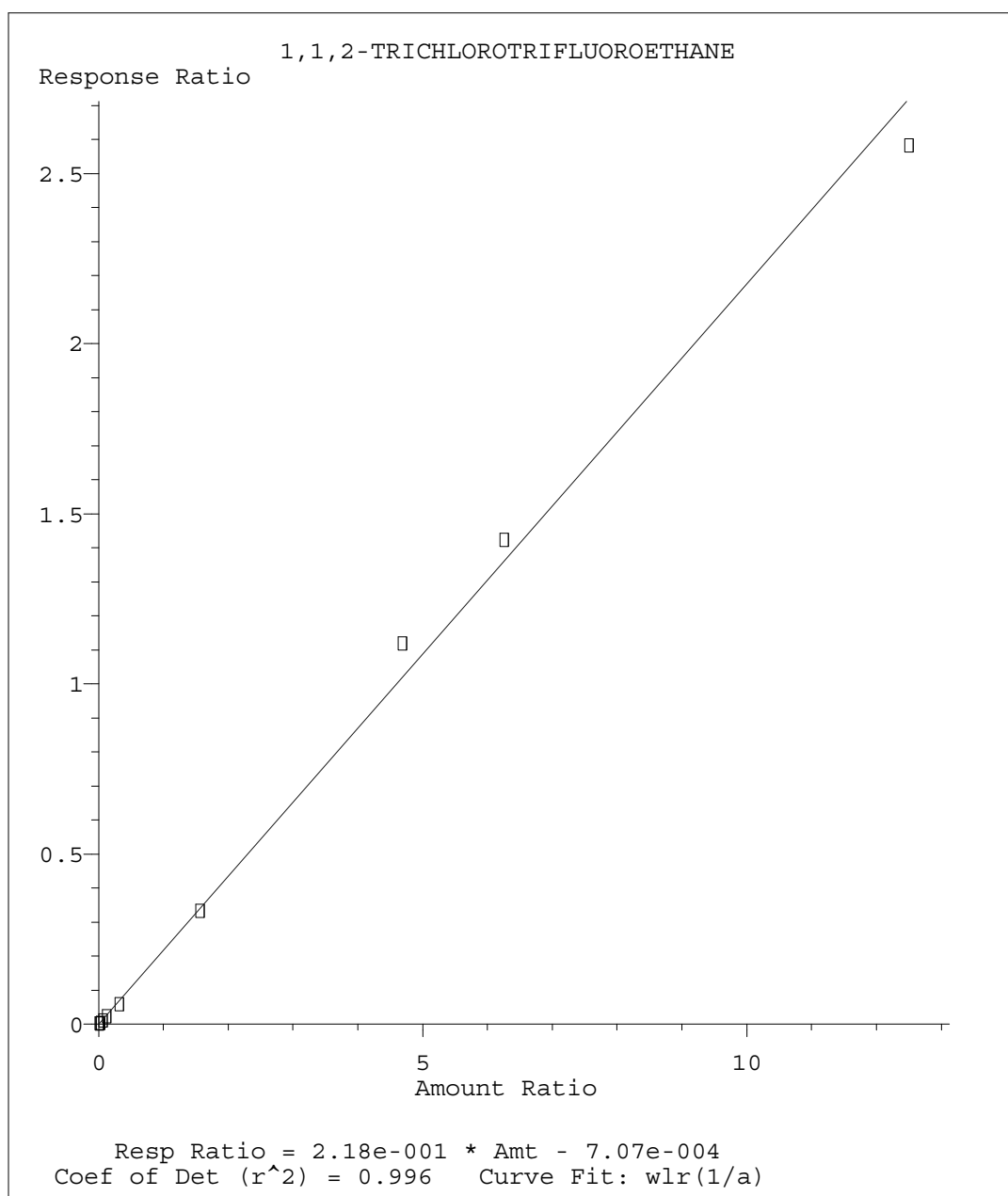
Analytical Method:

8260B

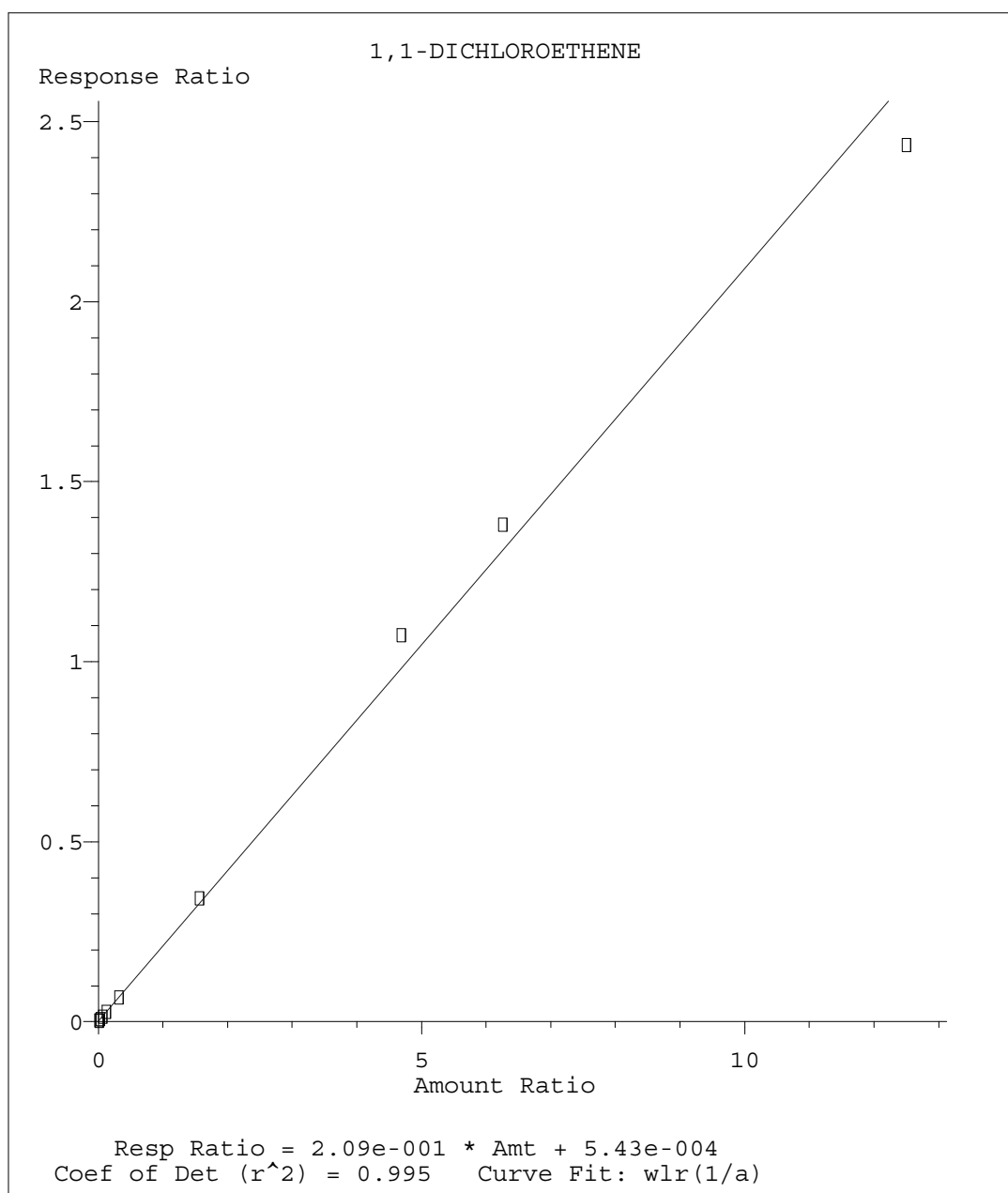
Instrument ID:

VOCMS26

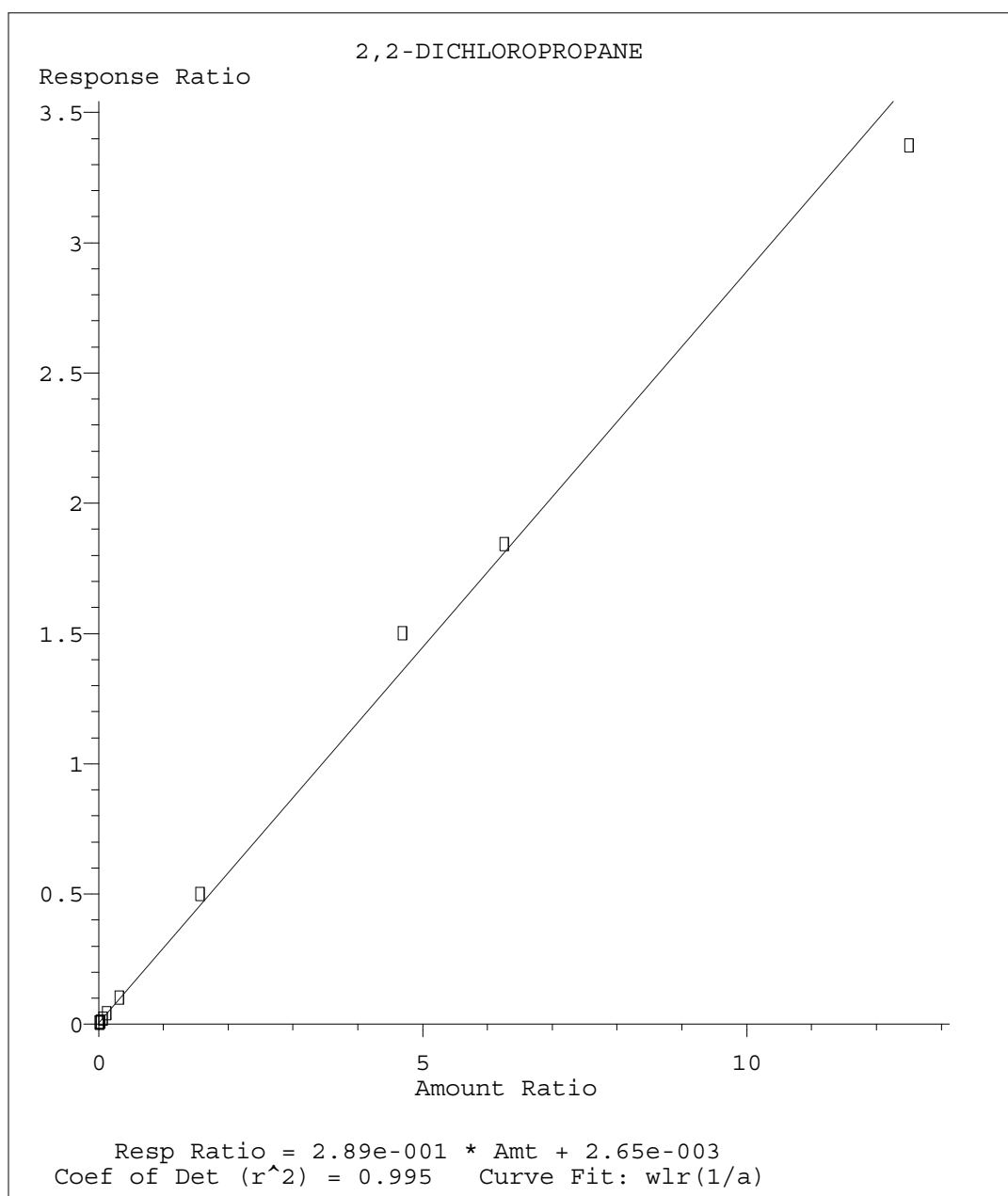
Analyte	RRF: 200	RRF. Avg	%RSD	COD
Analysis date/time	08/20/20 00:27			
1,3,5-TRIMETHYLBENZENE	1.6570	1.707047	4.47	
TERT-BUTYLBENZENE	1.4250	1.468899	9.25	
1,2,4-TRIMETHYLBENZENE	1.6790	1.698849	5.9	
SEC-BUTYLBENZENE	1.8250	1.852646	8.38	
1,3-DICHLOROBENZENE	1.0170	0.985936	3.62	
P-ISOPROPYLTOLUENE	1.6370	1.654641	5.66	
1,4-DICHLOROBENZENE	1.0220	1.021226	5.52	
1,2,3-TRIMETHYLBENZENE	1.3310	1.449992	13.63	
1,2-DICHLOROBENZENE	0.9930	0.950244	4.05	
N-BUTYLBENZENE	1.2880	1.244537	7.44	
1,2-DIBROMO-3-CHLOROPROPANE	0.2390	0.223842	12.92	
1,2,4-TRICHLOROBENZENE	0.4460	0.423073	14.12	
HEXACHLORO-1,3-BUTADIENE	0.1990	0.198634	9.69	
NAPHTHALENE	1.6970	1.7051	6.22	
1,2,3-TRICHLOROBENZENE	0.4010	0.409225	5.5	
ACROLEIN		0.016349	50.75	1
ACETONE	0.0950	0.123636	34.86	0.998
CARBON TETRACHLORIDE	0.3380	0.331942	9.99	
CHLOROMETHANE	0.2920	0.304113	3.57	
METHYLENE CHLORIDE	0.2240	0.269183	14.28	
File ID:	0819_15			



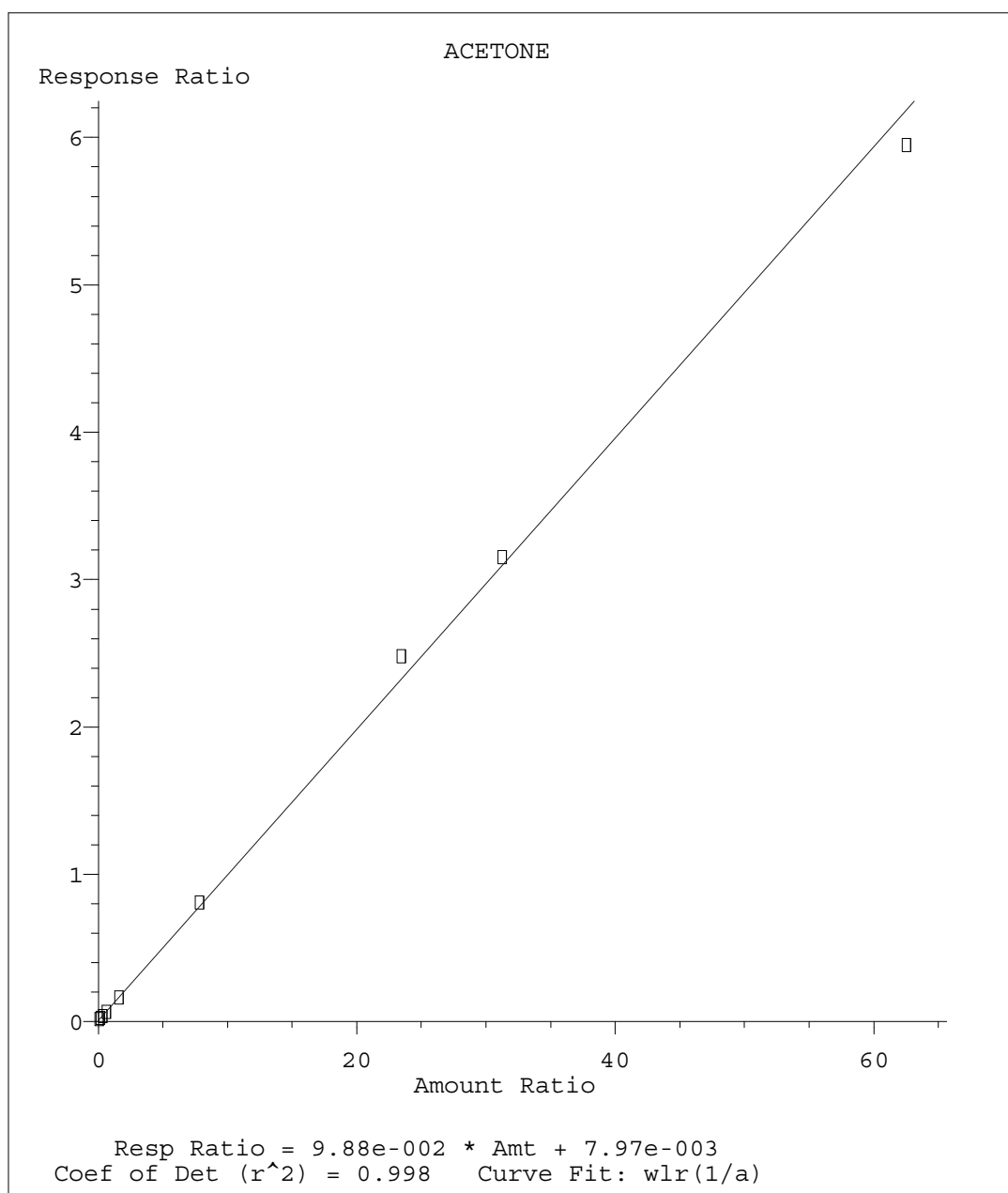
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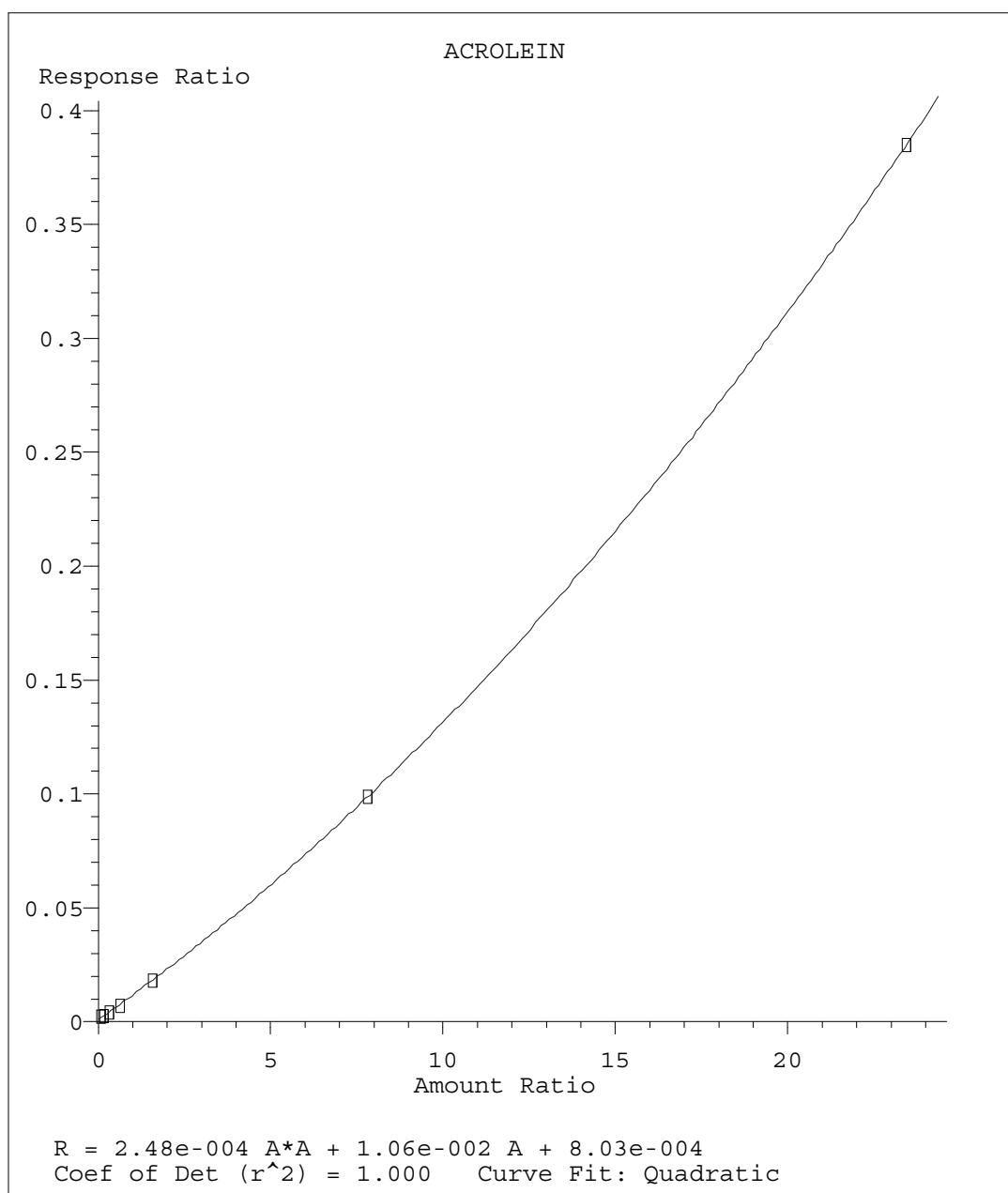
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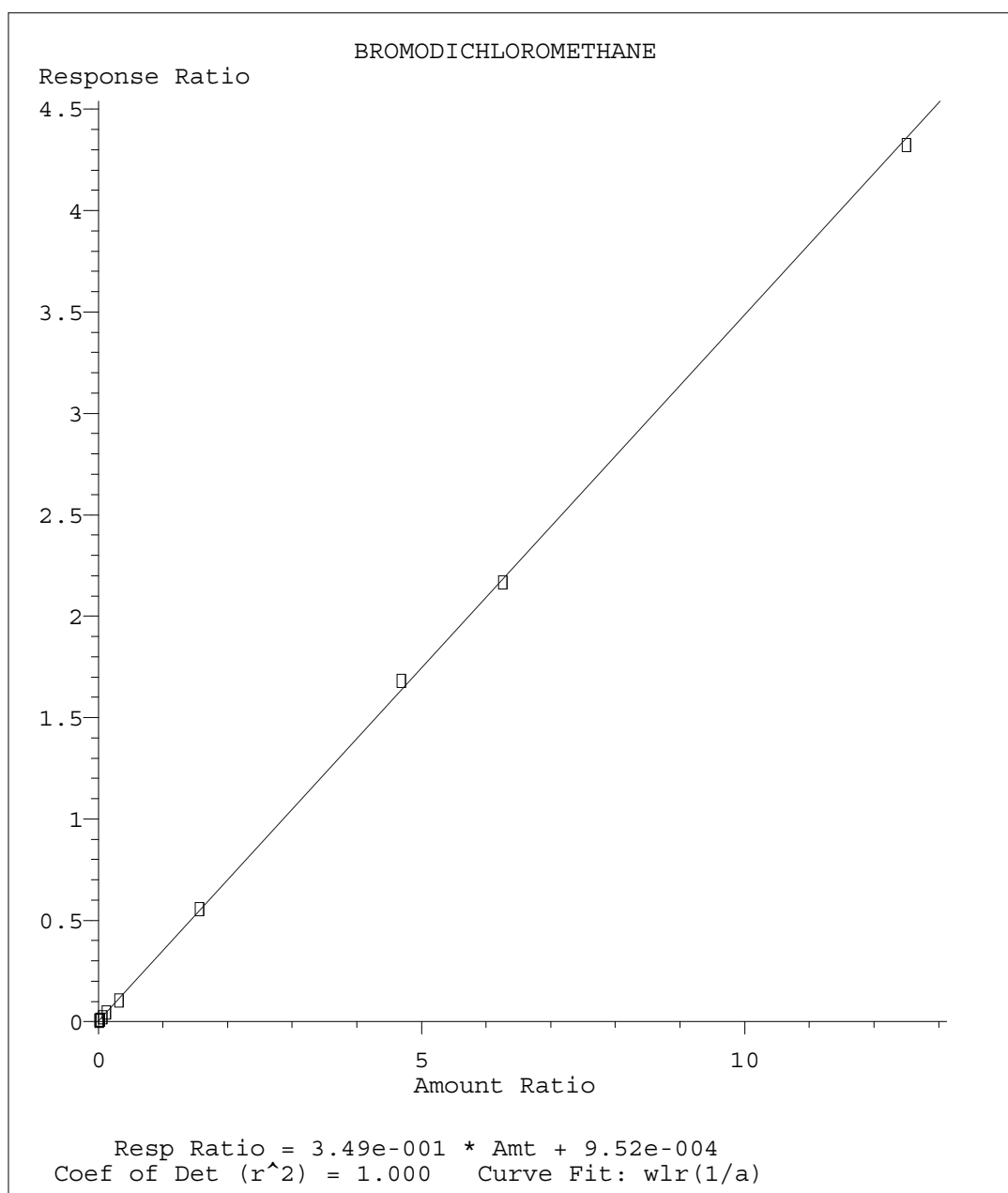
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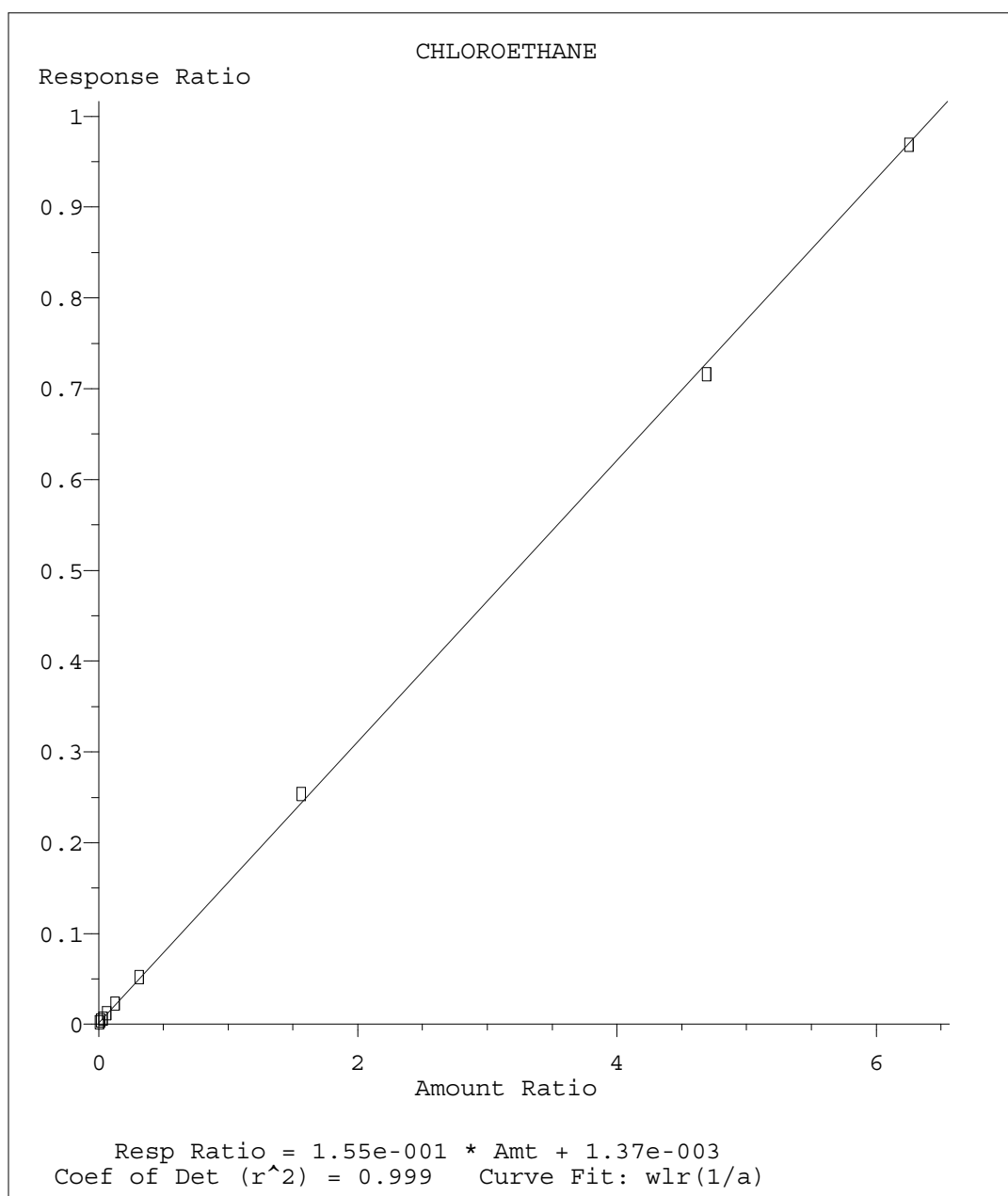
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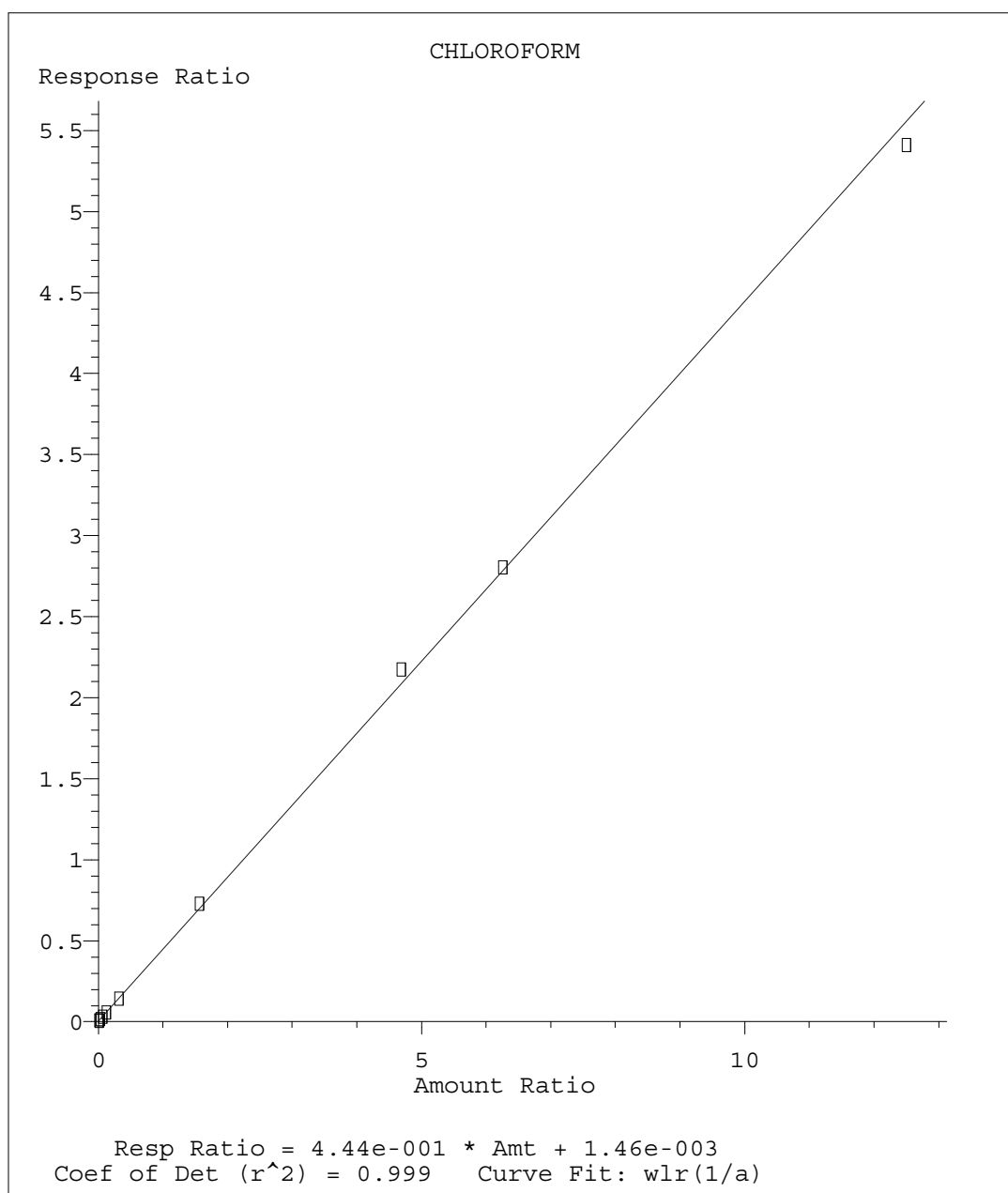
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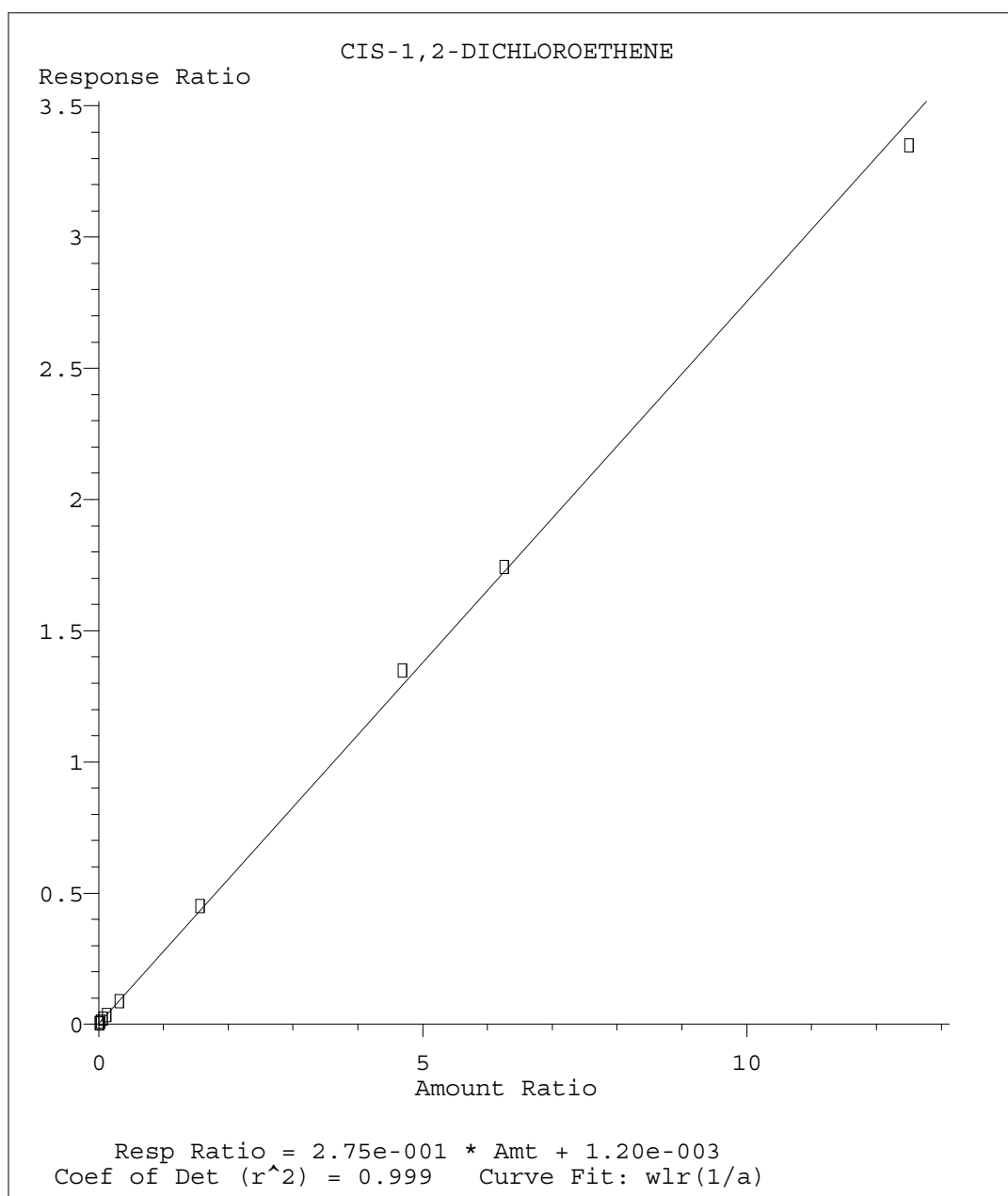
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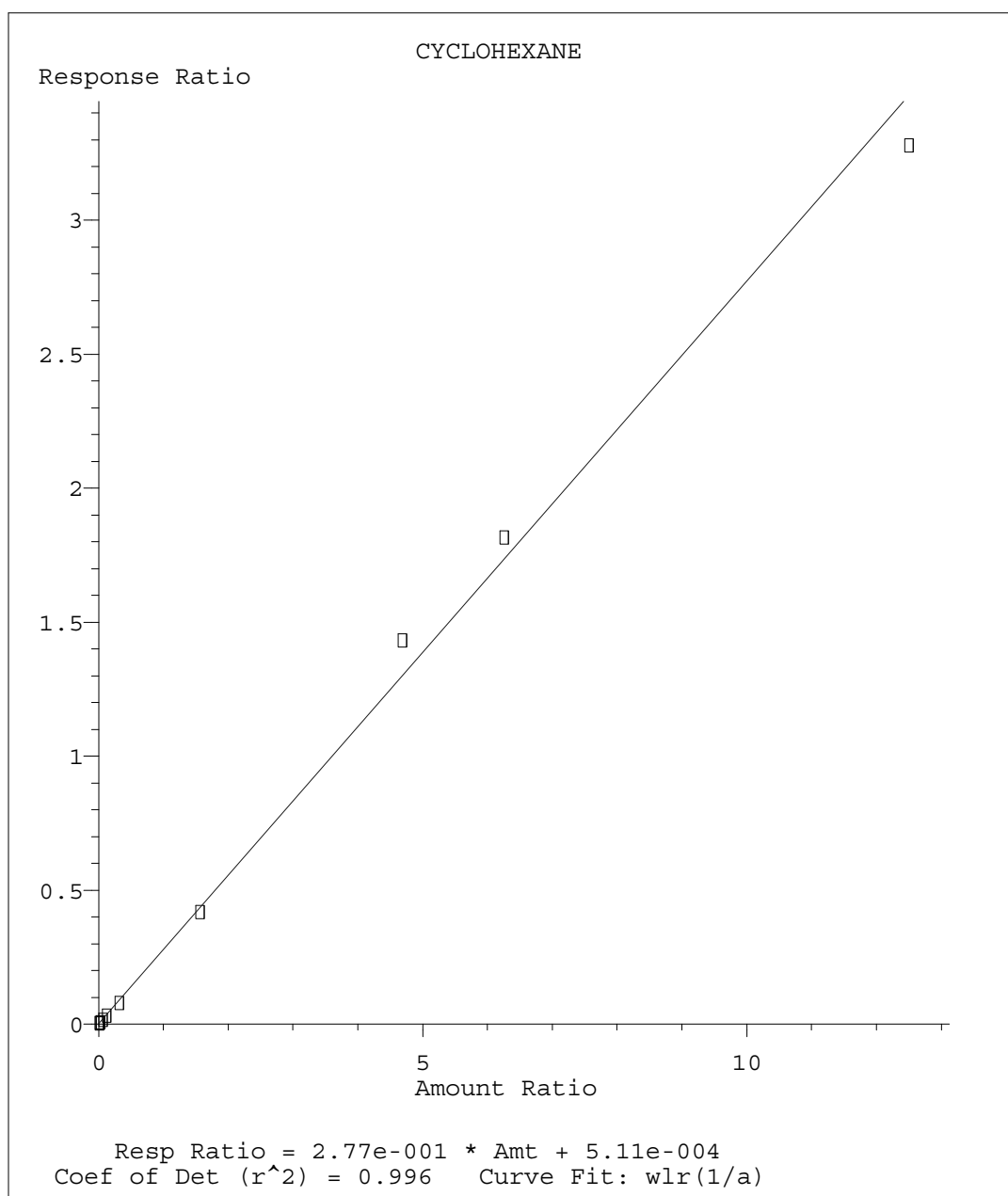
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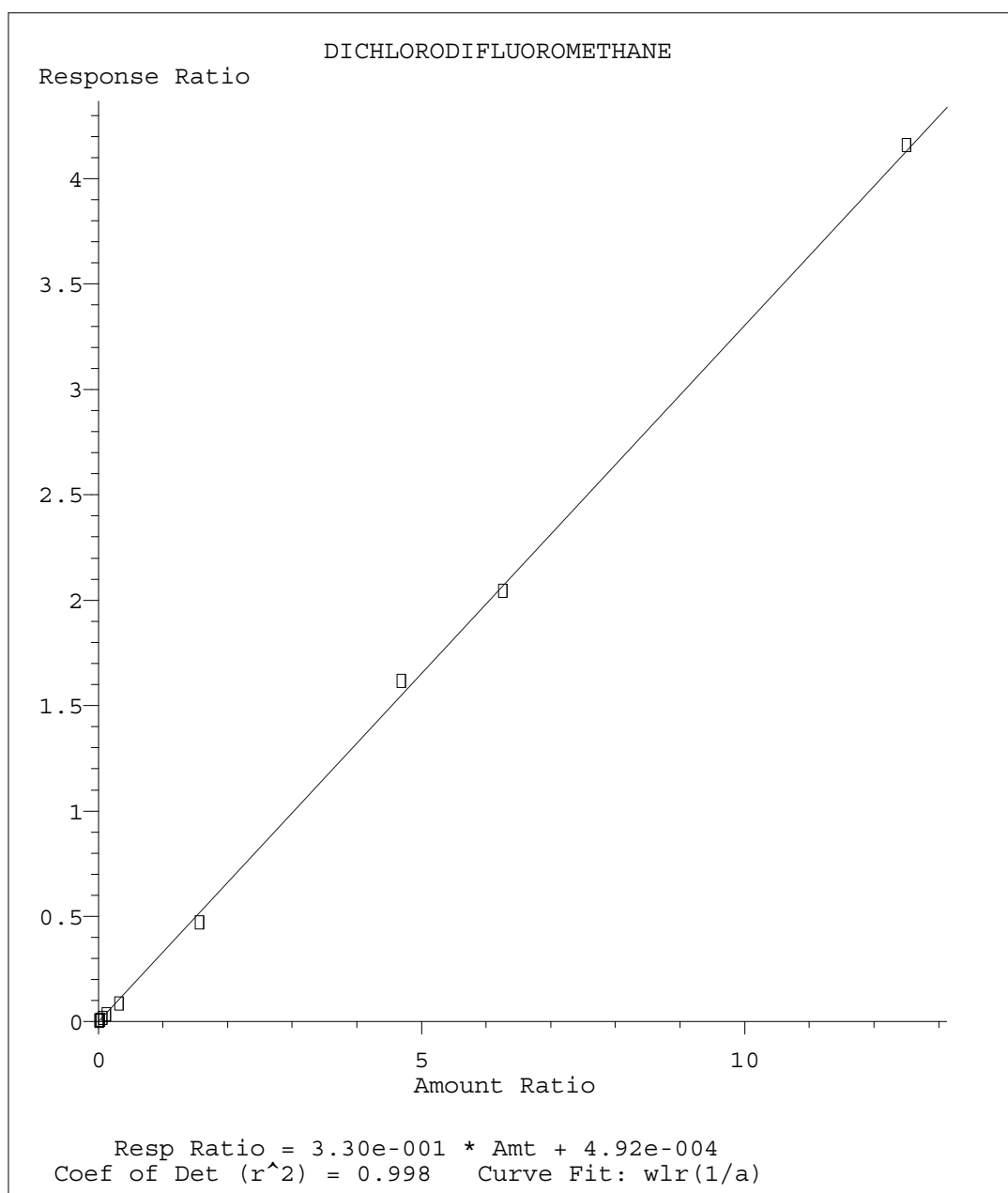
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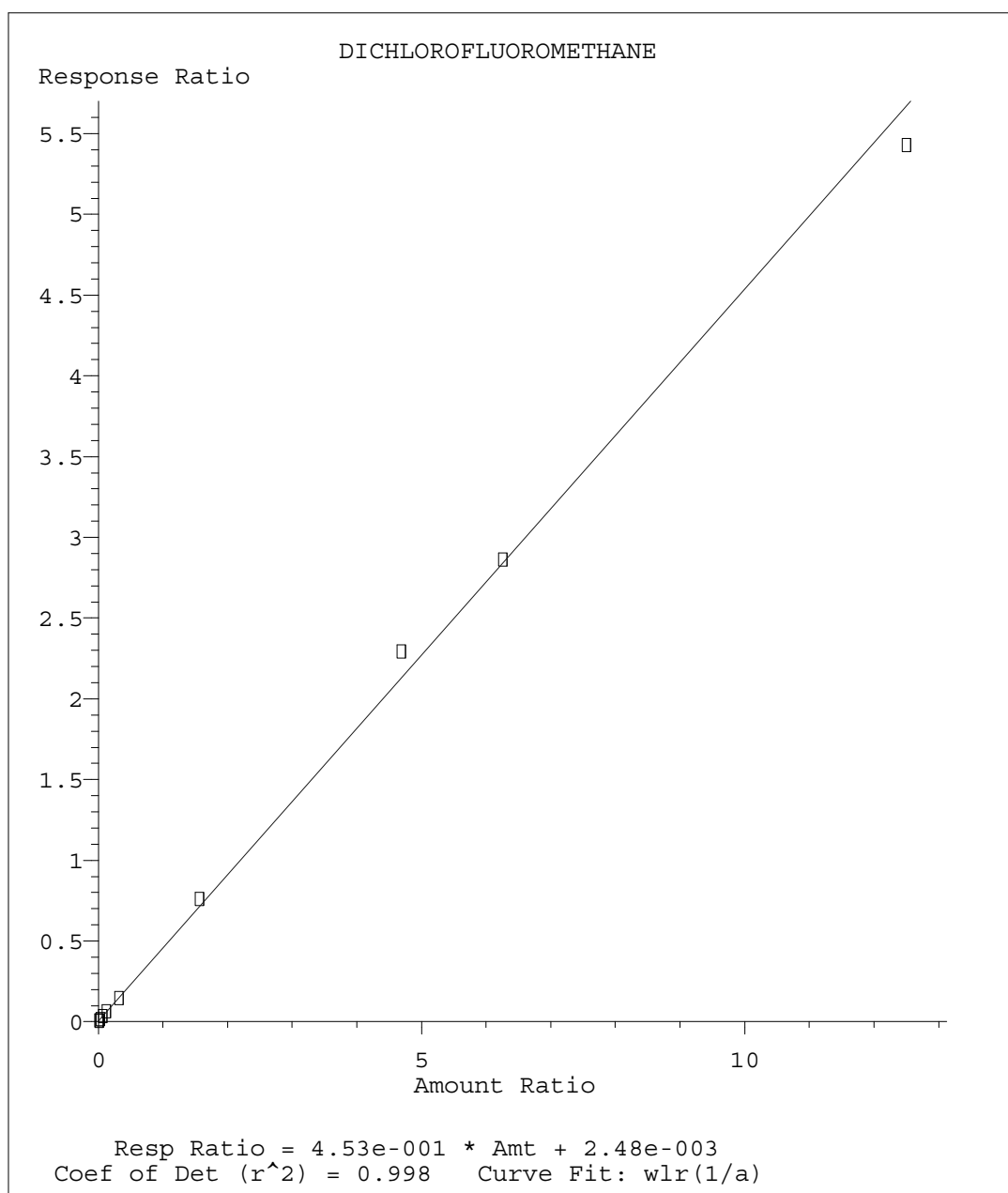
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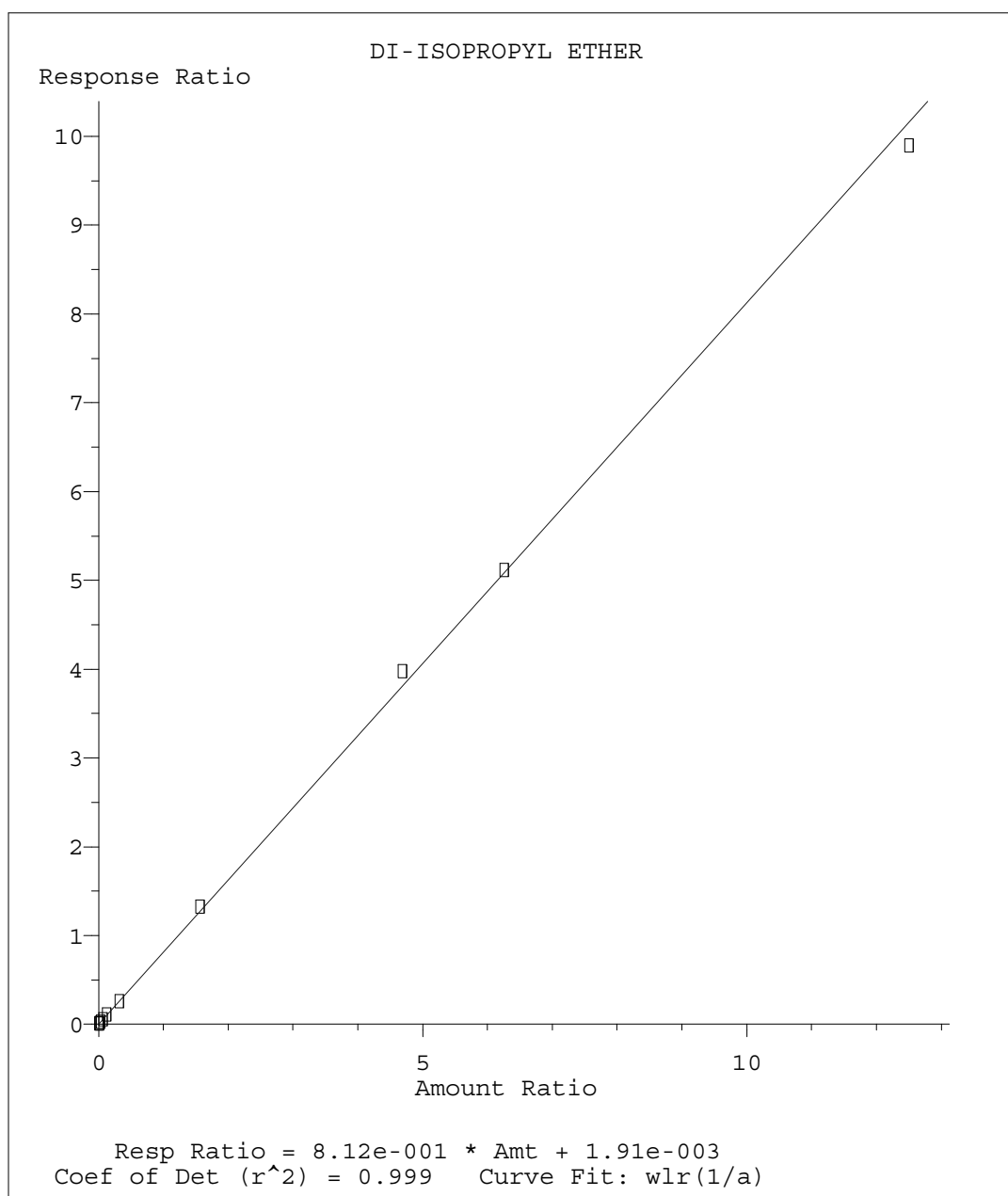
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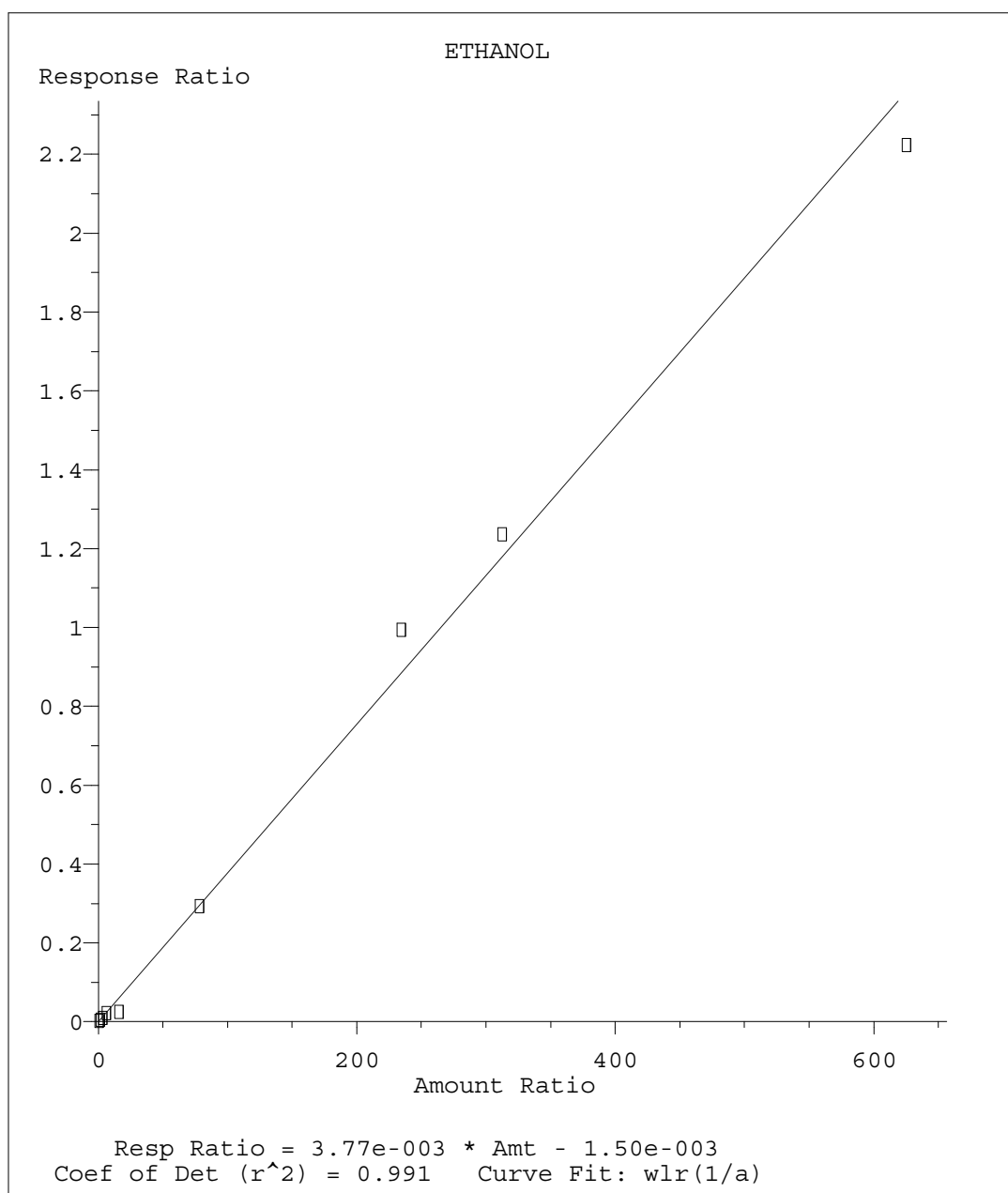
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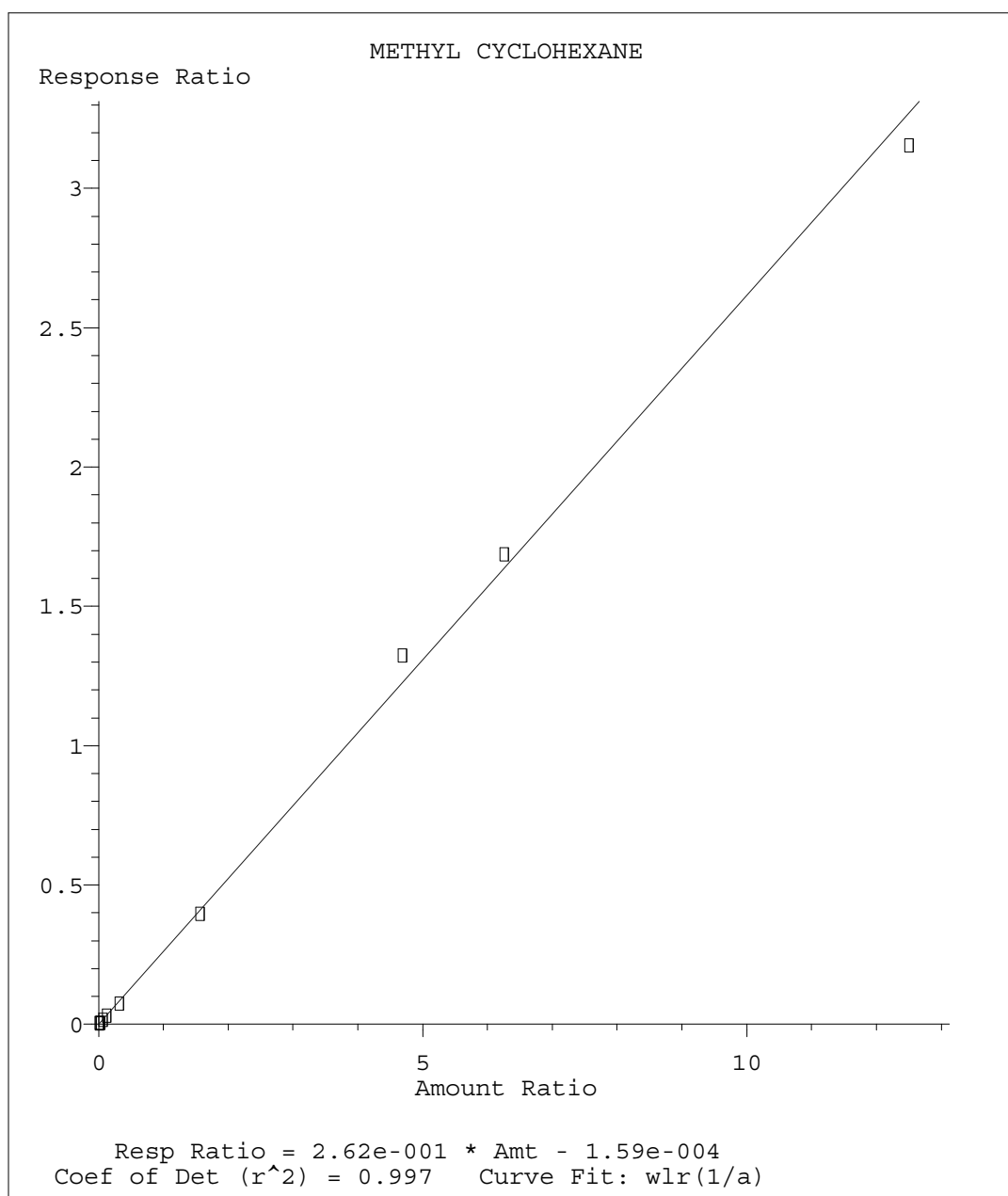
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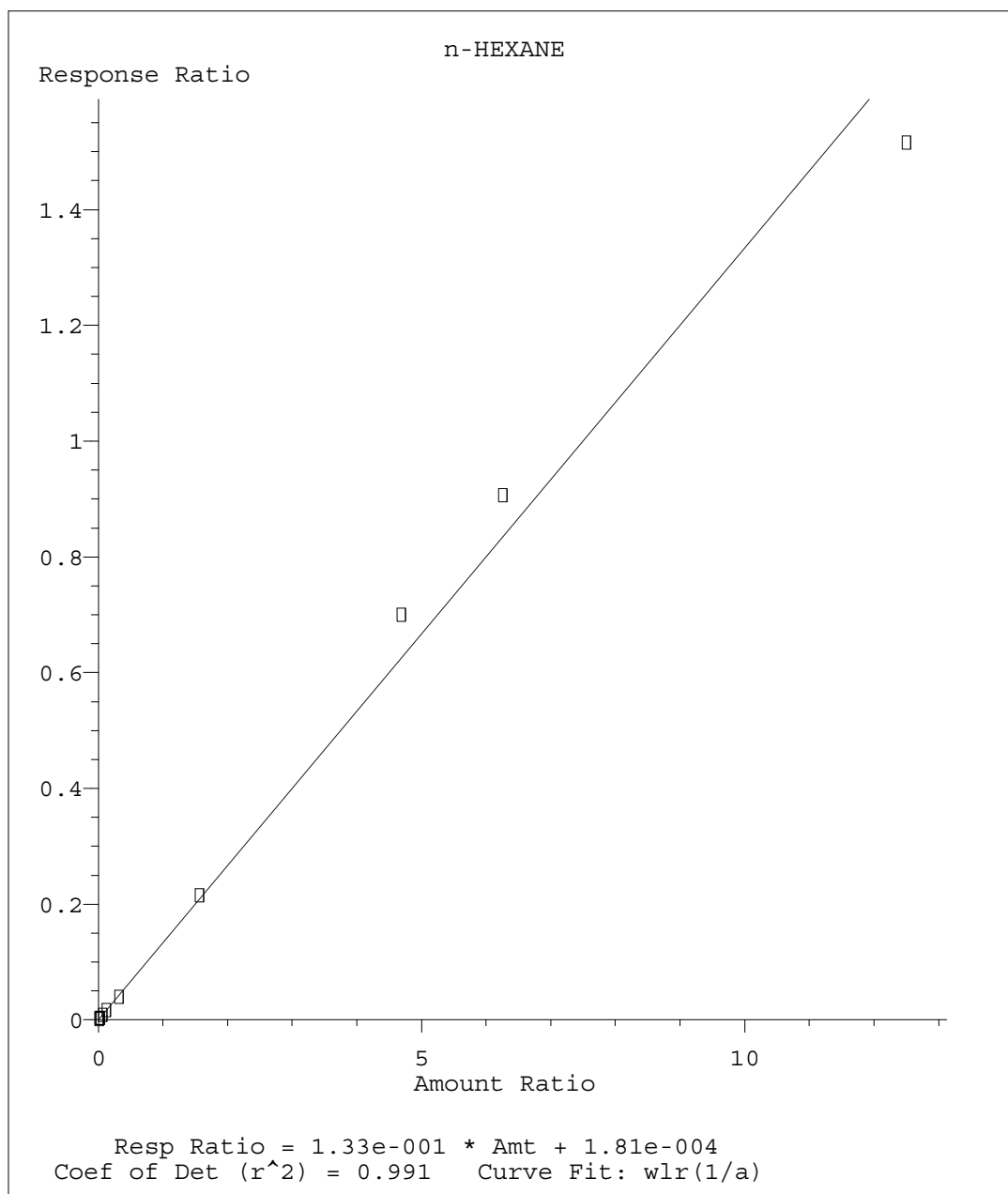
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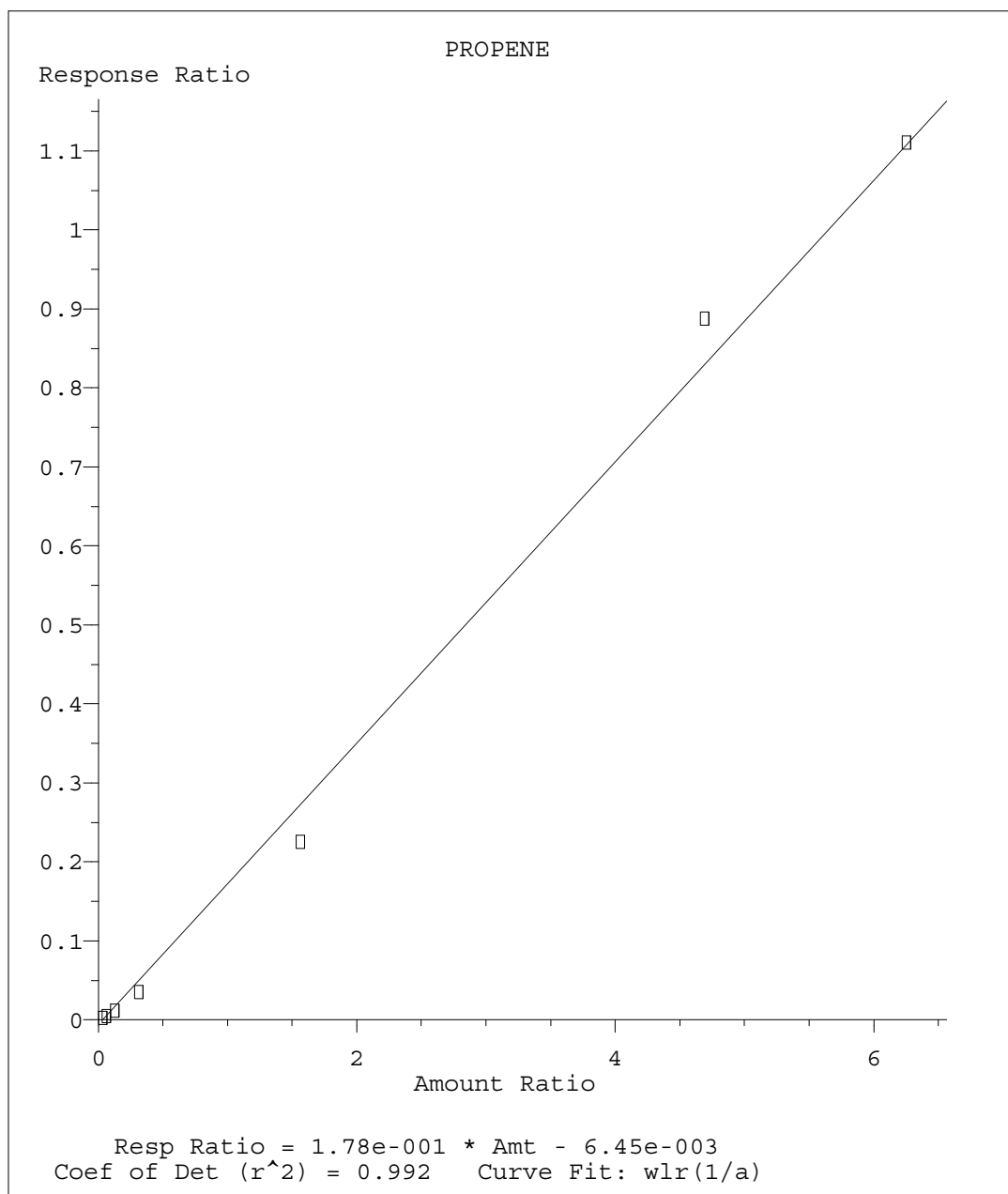
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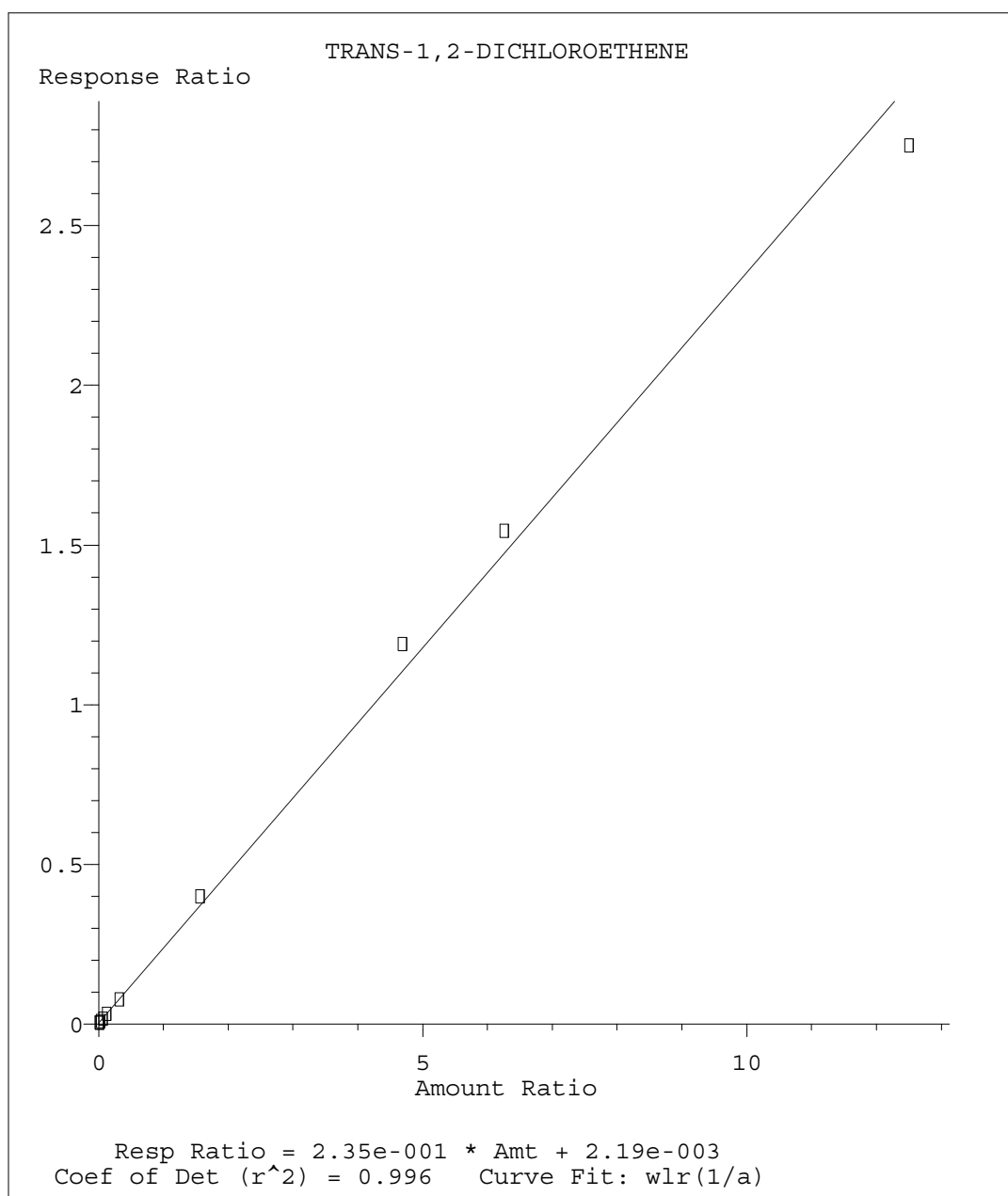
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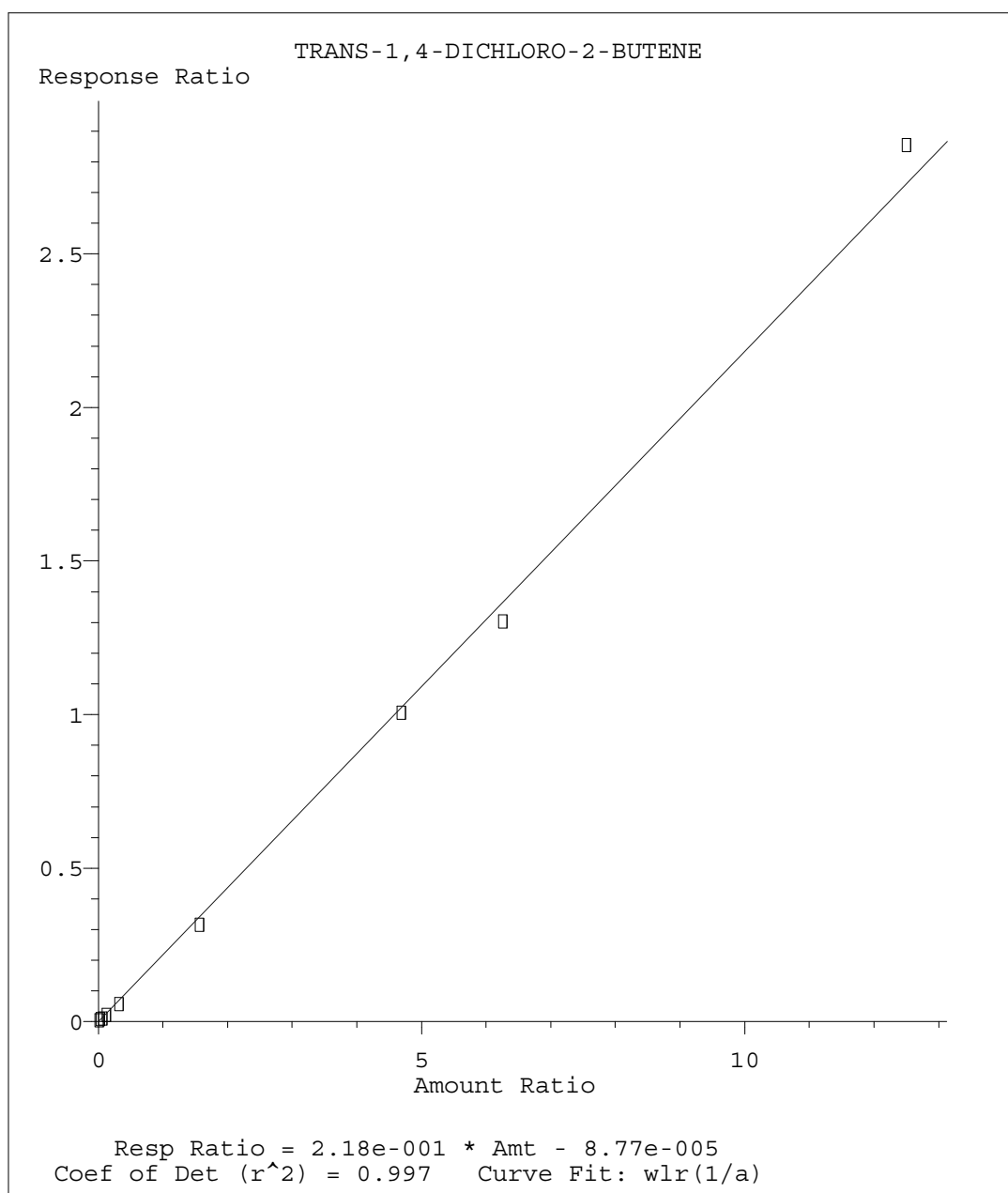
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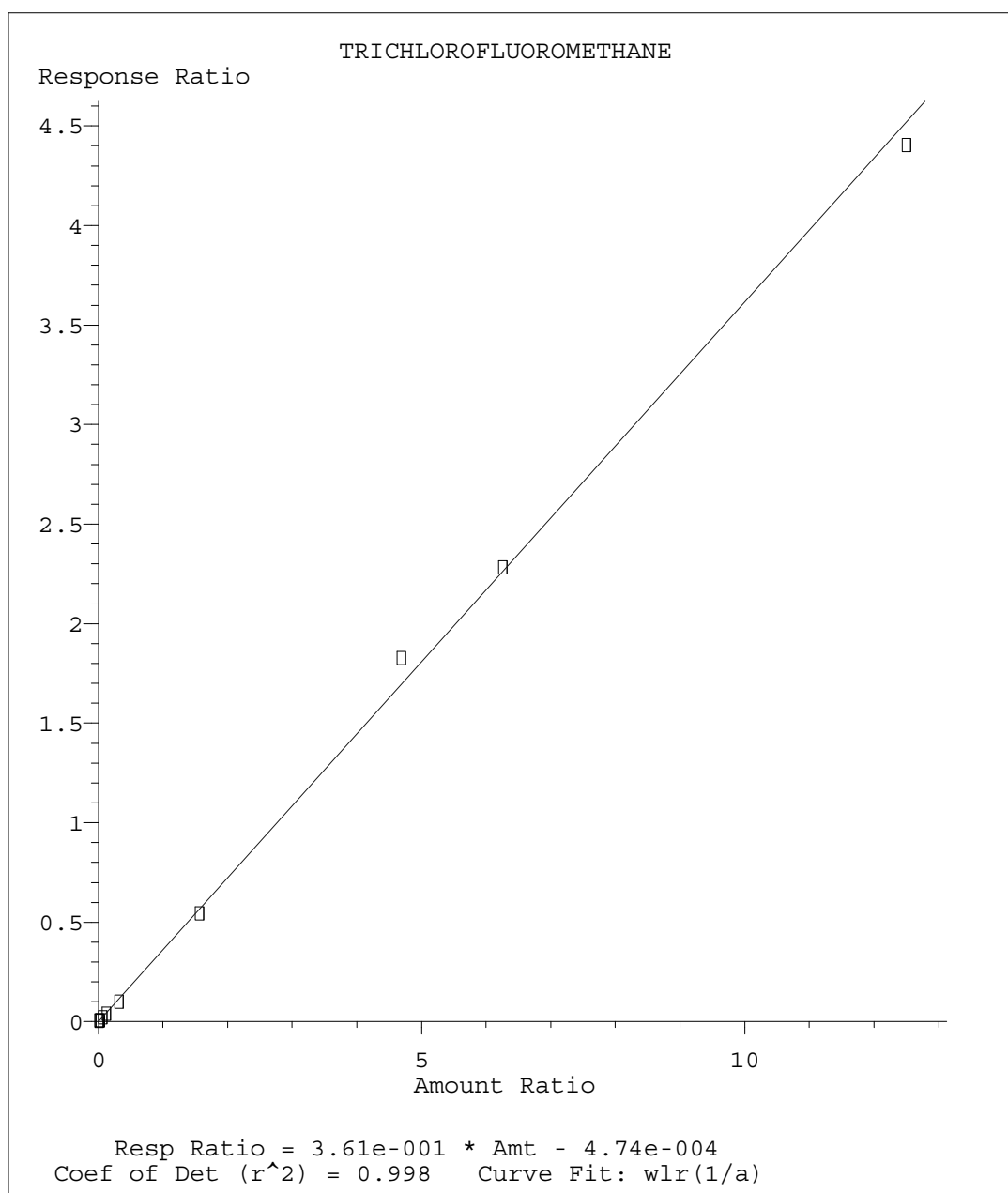
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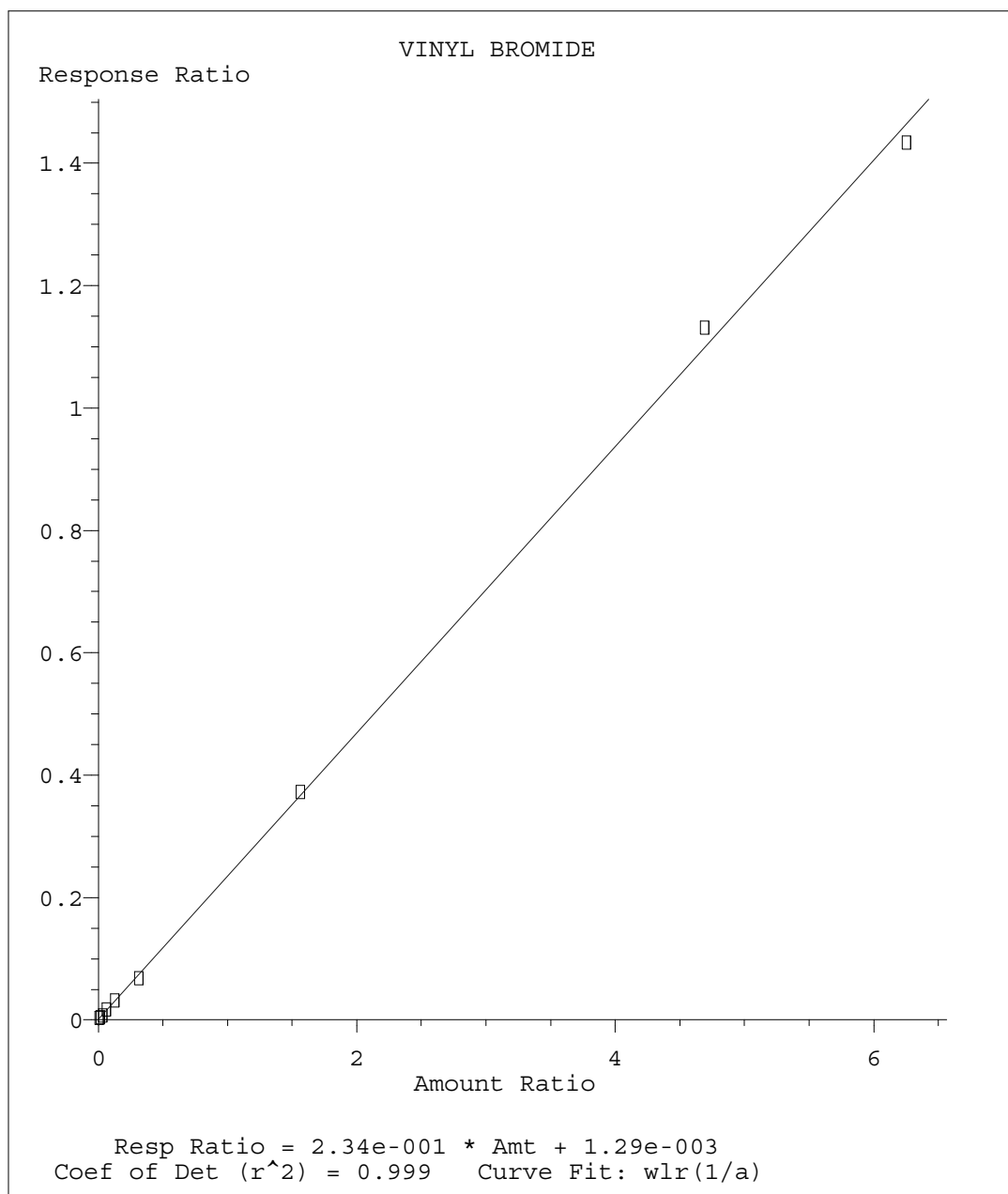
Method Name: C:\msdchem\1\methods\V826H21T.M



Method Name: C:\msdchem\1\methods\V826H21T.M



Method Name: C:\msdchem\1\methods\V826H21T.M



Method Name: C:\msdchem\1\methods\V826H21T.M

Response Factor Report VOCMS26

Method Path : C:\msdchem\1\methods\
Method File : V826H21T.M
Title : Volatile Organics by GC/MS
Last Update : Thu Aug 20 09:38:52 2020
Response Via : Initial Calibration

Calibration Files

0.04=0819_05.D 0.1 =0819_06.D 0.2 =0819_07.D 0.5 =0819_08.D 1 =0819_09.D 2 =0819_10.D 5.0 =0819_11.D 25 =0819_12.D
75 =0819_13.D 100 =0819_14.D 200 =0819_15.D 1a =0819_23.D 5a =0819_24.D 10a =0819_25.D 15a =0819_26.D 20a =0819_27.D

Compound	0.04	0.1	0.2	0.5	1	2	5.0	25	75	100	200	1a	5a	10a	15a	20a	Avg
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1) I	8260-FLUOROBENZENE	-----ISTD-----																
2) H	TPH (GC/MS) LO...																0.000#	
-1.00																		
3) H	LRH (C5-C8)																0.000#	
-1.00																		
4) T,M	PROPENE				0.073	0.072	0.090	0.112	0.144	0.189	0.178						0.123#	
39.59																		
5) T,M	DICHLORODIFLUO...		0.622	0.459	0.232	0.277	0.278	0.276	0.300	0.345	0.327	0.333					0.345	
33.31																		
6) P,T	MCHLOROMETHANE				0.299	0.315	0.307	0.321	0.289	0.305	0.303	0.292					0.304	
3.57																		
7) C,T	MVINYL CHLORIDE		0.265	0.369	0.320	0.255	0.274	0.269	0.269	0.290	0.308	0.304	0.294				0.292	
11.10#																		
8) T,M	1,3-BUTADIENE					0.286	0.256	0.194	0.224	0.249	0.243						0.242#	
12.84																		
9) T,M	BROMOMETHANE		0.230	0.259	0.202	0.226	0.238	0.212	0.217	0.202	0.189	0.161					0.213#	
12.83																		
10) T,M	CHLOROETHANE		0.310	0.293	0.200	0.190	0.179	0.165	0.162	0.153	0.155						0.201#	
29.65																		
11) T,M	VINYL BROMIDE		0.485	0.339	0.231	0.265	0.249	0.216	0.238	0.241	0.229						0.277#	
30.97																		
12) T,M	TRICHLOROFLUOR...		0.444	0.390	0.223	0.327	0.317	0.316	0.348	0.390	0.365	0.352					0.347	
16.87																		
13) T,M	DICHLOROFLUORO...		0.801	0.660	0.466	0.518	0.506	0.461	0.485	0.489	0.458	0.434					0.528	
21.70																		
14) M,T	ETHYL ETHER		0.263	0.271	0.219	0.234	0.224	0.214	0.216	0.213	0.205	0.190					0.225#	
11.15																		
15) T,M	ACROLEIN			0.035	0.015	0.013	0.011	0.011	0.013	0.016							0.016#	
50.75																		
16) T	ETHANOL			0.004	0.003	0.003	0.003	0.002	0.004	0.004	0.004	0.004					0.003#	
24.22																		
17) C,T	M1,1-DICHLOROET...		0.320	0.241	0.188	0.207	0.220	0.214	0.219	0.229	0.221	0.195					0.225	
16.25#																		
18) M,T	1,1,2-TRICHLOR...		0.211	0.205	0.117	0.173	0.187	0.187	0.213	0.238	0.228	0.207					0.197#	
17.35																		
19) T,M	ACETONE			0.232	0.144	0.121	0.107	0.103	0.103	0.106	0.101	0.095					0.124#	
34.86																		

Response Factor Report VOCMS26

Method Path : C:\msdchem\1\methods\
Method File : V826H21T.M
Title : Volatile Organics by GC/MS

20)	T,M	IODOMETHANE		0.505	0.513	0.426	0.479	0.470	0.461	0.478	0.466	0.449	0.376		0.462
8.54															
21)	T,M	CARBON DISULFIDE			0.856	0.656	0.683	0.649	0.626	0.660	0.670	0.652	0.504		0.662
13.58															
22)	T	ALLYL CHLORIDE		0.165	0.164	0.129	0.144	0.145	0.137	0.144	0.142	0.135	0.119		0.143#
9.79															
23)	T,M	METHYLENE CHLO...				0.346	0.302	0.273	0.258	0.255	0.252	0.242	0.224		0.269#
14.28															
24)	T	METHYL ACETATE	0.185	0.188	0.228	0.196	0.212	0.216	0.232	0.227	0.223	0.219	0.193		0.211#
8.30															
25)	T,M	ACRYLONITRILE		0.176	0.146	0.130	0.138	0.135	0.134	0.135	0.134	0.130	0.126		0.139#
10.32															
26)	T,M	n-HEXANE		0.130	0.212	0.100	0.136	0.129	0.127	0.137	0.149	0.145	0.121		0.139#
21.13															
27)	T,M	TRANS-1,2-DICH...		0.561	0.404	0.275	0.281	0.261	0.249	0.255	0.254	0.247	0.220		0.301
34.58															
28)	T,M	METHYL TERT-BU...	0.880	0.935	0.843	0.710	0.736	0.751	0.729	0.734	0.735	0.708	0.682		0.768
10.53															
29)	T	TERT-BUTYL ALC...				0.055	0.048	0.045	0.037	0.047	0.047	0.045	0.047		0.046#
10.24															
30)	P,T,M	1,1-DICHLOROET...		0.564	0.510	0.418	0.449	0.453	0.449	0.461	0.457	0.443	0.420		0.462
9.44															
31)	T,M	VINYL ACETATE		0.624	0.622	0.523	0.564	0.568	0.557	0.577	0.547	0.521			0.567
6.53															
32)	T,M	DI-ISOPROPYL E...	1.483	1.092	1.009	0.838	0.868	0.846	0.832	0.846	0.848	0.818	0.792		0.934
21.76															
33)	T	ETHYL TERT-BUT...	0.807	0.837	0.950	0.730	0.804	0.801	0.774	0.790	0.783	0.748	0.720		0.795
7.84															
34)	T,M	2,2-DICHLOROPR...		0.663	0.484	0.325	0.351	0.328	0.326	0.320	0.320	0.295	0.270		0.368
32.09															
35)	T,M	CIS-1,2-DICHLO...		0.383	0.420	0.305	0.321	0.282	0.281	0.288	0.287	0.279	0.268		0.311
16.17															
36)	T,M	2-BUTANONE (MEK)		0.215	0.189	0.170	0.172	0.177	0.177	0.181	0.178	0.172	0.169		0.180#
7.51															
37)	T,M	BROMOCHLOROMET...		0.211	0.224	0.175	0.188	0.187	0.185	0.192	0.190	0.184	0.174		0.191#
8.09															
38)	M,T	TETRAHYDROFURAN				0.155	0.141	0.128	0.116	0.112	0.110	0.108	0.107		0.122#
14.42															
39)	C,T	MCHLOROFORM		0.720	0.531	0.440	0.470	0.459	0.452	0.466	0.464	0.449	0.433		0.488
17.55#															
40)	T	CYCLOHEXANE		0.482	0.338	0.227	0.248	0.252	0.252	0.267	0.305	0.291	0.262		0.292#
25.30															
41)	T,M	1,1,1-TRICHLOR...		0.393	0.388	0.323	0.369	0.368	0.362	0.388	0.411	0.396	0.384		0.378
6.42															
42)	T,M	CARBON TETRACH...			0.379	0.261	0.320	0.328	0.318	0.338	0.362	0.345	0.338		0.332
9.99															
43)	T,M	1,1-DICHLOROPR...		0.389	0.350	0.258	0.315	0.326	0.308	0.329	0.344	0.330	0.311		0.326
10.30															
44)	T,M	2,2,4-TRIMETHY...		0.360	0.333	0.220	0.330	0.328	0.371	0.375	0.380	0.355	0.293		0.335

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45)	T,M	n-Heptane		0.101	0.111	0.079	0.083	0.088	0.088	0.098	0.106	0.104	0.092	0.095#
11.07														
46)	T,M	BENZENE	1.236	1.096	1.157	0.905	1.016	1.025	0.981	1.019	1.015	0.981	0.919	1.032
9.51														
47)	T	TERT-AMYL METH...			0.938	0.736	0.769	0.758	0.759	0.764	0.758	0.723	0.702	0.768
8.81														
48)	S	1,2-DICHLOROET...	0.295	0.299	0.295	0.297	0.297	0.295	0.299	0.308	0.345	0.357	0.309	0.309
7.00														
49)	T,M	1,2-DICHLOROET...		0.453	0.466	0.324	0.351	0.347	0.342	0.345	0.344	0.334	0.316	0.362
14.49														
50)	T	T-AMYL ALCOHOL		0.046	0.047	0.043	0.048	0.045	0.041	0.042	0.042	0.041	0.047	0.044#
5.84														
51)	T,M	TRICHLOROETHENE	0.314	0.294	0.292	0.268	0.288	0.289	0.276	0.294	0.298	0.288	0.274	0.289#
4.34														
52)	T,M	METHYL CYCLOHE...		0.393	0.271	0.150	0.228	0.237	0.234	0.253	0.282	0.270	0.252	0.257#
23.44														
53)	T,M	TERT-AMYL ETHY...		0.666	0.679	0.565	0.615	0.608	0.599	0.609	0.610	0.593	0.587	0.613
5.67														
54)	C,T,M	1,2-DICHLOROPR...		0.182	0.196	0.177	0.185	0.196	0.183	0.186	0.188	0.181	0.178	0.185
3.58#														
55)	T,M	DIBROMOMETHANE		0.226	0.227	0.175	0.178	0.171	0.173	0.176	0.177	0.172	0.169	0.184#
12.20														
56)	T,M	BROMODICHLOROM...		0.572	0.409	0.330	0.353	0.366	0.336	0.355	0.359	0.346	0.346	0.377
18.99														
57)	T,M	2-CHLOROETHYL ...		0.201	0.197	0.174	0.196	0.197	0.194	0.202	0.201	0.192	0.179	0.193#
4.88														
58)	T,M	CIS-1,3-DICHLO...		0.420	0.422	0.401	0.420	0.425	0.413	0.433	0.438	0.425	0.418	0.422
2.41														
59)	I	8260-CHLOROBENZENE-D5	-----ISTD-----											
60)	T,M	4-METHYL-2-PEN...		0.816	0.967	0.807	0.882	0.870	0.863	0.812	0.816	0.775	0.749	0.836
7.42														
61)	S	TOLUENE-D8	2.406	2.380	2.430	2.394	2.394	2.364	2.332	2.203	2.261	2.255	2.257	2.334
3.30														
62)	T,M	CTOLUENE		3.012	2.871	2.521	2.646	2.619	2.539	2.489	2.581	2.478	2.406	2.616
7.18#														
63)	T,M	TRANS-1,3-DICH...		0.822	0.920	0.827	0.959	0.869	0.887	0.874	0.927	0.884	0.905	0.887
4.84														
64)	T,M	1,1,2-TRICHLOR...		0.690	0.641	0.538	0.606	0.604	0.557	0.533	0.550	0.530	0.550	0.580
9.25														
65)	T,M	TETRACHLOROETHENE		0.590	0.528	0.414	0.506	0.479	0.465	0.473	0.502	0.486	0.474	0.492
9.33														
66)	T,M	1,3-DICHLOROPR...		0.895	1.016	0.870	0.952	0.910	0.903	0.877	0.912	0.885	0.904	0.913
4.70														
67)	T,M	2-HEXANONE		0.392	0.405	0.326	0.349	0.335	0.352	0.331	0.334	0.322	0.333	0.348
8.16														
68)	T,M	CHLORODIBROMOM...		0.735	0.771	0.629	0.676	0.655	0.665	0.655	0.685	0.662	0.696	0.683
6.15														

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69)	T,M	1,2-DIBROMOETHANE	0.742	0.738	0.592	0.626	0.620	0.611	0.592	0.623	0.605	0.619	0.637
8.76													
70)	P,T	MCHLOROBENZENE	1.698	1.948	1.554	1.683	1.636	1.602	1.567	1.633	1.573	1.581	1.647
7.07													
71)	T,M	1,1,1,2-TETRAC...	0.677	0.701	0.554	0.627	0.617	0.587	0.569	0.606	0.583	0.606	0.613
7.53													
72)	C,T	METHYLBENZENE	0.881	0.992	0.715	0.834	0.833	0.783	0.809	0.841	0.807	0.816	0.831
8.56#													
73)	T,M	M&P-XYLENE	1.090	1.021	1.105	0.944	1.024	0.999	0.985	0.979	1.007	0.964	0.956
5.15													
74)	T,M	O-XYLENE	1.058	1.021	0.883	1.032	0.958	0.962	0.945	1.002	0.956	0.987	0.980
5.14													
75)		TOTAL XYLENES											0.000#
-1.00													
76)		XYLENES, TOTAL											0.000#
-1.00													
77)	T,M	STYRENE	1.683	1.729	1.453	1.615	1.632	1.628	1.608	1.677	1.624	1.689	1.634
4.58													
78)	T,P	MBROMOFORM	0.550	0.542	0.457	0.512	0.524	0.517	0.508	0.542	0.516	0.556	0.523
5.47													
79)	T,M	ISOPROPYLBENZENE	2.730	2.602	2.136	2.299	2.254	2.183	2.198	2.317	2.202	2.249	2.317
8.37													
80)	S	4-BROMOFLUOROB...	0.924	0.927	0.947	0.935	0.924	0.901	0.888	0.847	0.870	0.870	0.877
3.63													
81)	I	8260-1,4-DICHLOROB...	-----ISTD-----										
12.27													
82)	T,M	BROMOBENZENE	1.386	1.095	0.946	0.944	1.005	0.999	1.020	1.021	0.986	1.029	1.043
11.33													
83)	P,T	M1,1,2,2-TETRAC...	1.068	0.950	0.786	0.778	0.822	0.810	0.807	0.796	0.764	0.813	0.839
11.69													
84)	T,M	1,2,3-TRICHLOR...	0.180	0.297	0.250	0.244	0.260	0.261	0.244	0.246	0.237	0.252	0.247#
25.66													
85)	T,M	TRANS-1,4-DICH...	0.345	0.247	0.162	0.166	0.180	0.201	0.214	0.208	0.228		0.217#
3.03													
86)	T,M	N-PROPYLBENZENE	2.411	2.501	2.240	2.404	2.437	2.417	2.469	2.486	2.379	2.399	2.414
4.58													
87)	T,M	4-ETHYLTOLUENE	2.182	2.022	1.820	2.024	1.991	2.024	2.079	2.072	1.969	1.990	2.017
4.02													
88)	T,M	2-CHLOROTOLUENE	1.696	1.723	1.489	1.654	1.651	1.633	1.654	1.639	1.575	1.596	1.631
5.85													
89)	T,M	4-CHLOROTOLUENE	1.749	1.716	1.426	1.534	1.533	1.563	1.609	1.618	1.564	1.624	1.594
4.47													
90)	T,M	1,3,5-TRIMETHY...	1.856	1.735	1.563	1.706	1.714	1.730	1.739	1.727	1.643	1.657	1.707
9.25													
91)	T,M	TERT-BUTYLBENZENE	1.775	1.617	1.279	1.450	1.419	1.414	1.455	1.467	1.389	1.425	1.469
5.90													
92)	T,M	1,2,4-TRIMETHY...	1.730	1.931	1.527	1.682	1.685	1.656	1.718	1.728	1.653	1.679	1.699
2.174													
93)	T,M	SEC-BUTYLBENZENE	1.780	1.999	1.574	1.780	1.834	1.794	1.857	1.893	1.797	1.825	1.853

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Method Path : C:\msdchem\1\methods\

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94)	T,M	1,3-DICHLOROBE...	0.941	1.045	0.926	0.965	0.983	0.997	1.002	1.007	0.977	1.017	0.986
3.62													
95)	T,M	P-ISOPROPYLTOL...	1.789	1.711	1.432	1.607	1.667	1.650	1.696	1.714	1.642	1.637	1.655
5.66													
96)	T,M	DICYCLOPENTADIENE	2.418	2.091	1.824	1.946	1.969	1.969	2.007	1.996	1.882	1.861	1.996
8.39													
97)	T,M	1,4-DICHLOROBE...	1.163	1.061	0.970	0.978	1.000	0.995	1.013	1.023	0.988	1.022	1.021
5.52													
98)	M,T	1,2,3-TRIMETHY...	1.889	1.738	1.300	1.402	1.368	1.387	1.387	1.379	1.319	1.331	1.450
13.63													
99)	T,M	1,2-DICHLOROBE...	0.936	0.944	0.860	0.979	0.939	0.938	0.974	0.989	0.951	0.993	0.950
4.05													
100)	T,M	N-BUTYLBENZENE	1.384	1.256	1.062	1.150	1.187	1.224	1.293	1.325	1.277	1.288	1.245
7.44													
101)	T,M	1,2-DIBROMO-3-...	0.144	0.235	0.227	0.246	0.221	0.225	0.234	0.237	0.231	0.239	0.224#
12.92													
102)	T,M	1,3,5-TRICHLOR...	0.317	0.505	0.424	0.483	0.483	0.503	0.511	0.524	0.500	0.500	0.475
13.02													
103)	T,M	1,2,4-TRICHLOR...	0.272	0.430	0.402	0.398	0.433	0.437	0.476	0.481	0.456	0.446	0.423
14.12													
104)	T,M	HEXACHLORO-1,3...	0.230	0.177	0.161	0.193	0.194	0.203	0.210	0.214	0.206	0.199	0.199#
9.69													
105)	T,M	NAPHTHALENE	1.910	1.715	1.544	1.650	1.586	1.663	1.765	1.805	1.716	1.697	1.705
6.22													
106)	T,M	1,2,3-TRICHLOR...	0.422	0.378	0.373	0.417	0.406	0.399	0.435	0.443	0.418	0.401	0.409
5.50													
107)	T,M	1-METHYLNAPHTH...	0.493	0.517	0.454	0.488	0.484	0.487	0.567	0.592	0.577	0.502	0.516
8.95													
108)	T,M	2-METHYLNAPHTH...	0.502	0.538	0.451	0.470	0.467	0.476	0.508	0.517	0.513	0.438	0.488
6.60													
109)	I	AP9-FLUOROBENZENE	-----ISTD-----										
110)	T	BROMOETHANE											0.174 0.179 0.195 0.185 0.189 0.185#
4.47													
111)	T	2-PROPANOL											0.024 0.023 0.031 0.029 0.029 0.027#
12.46													
112)	T	ACETONITRILE											0.045 0.045 0.054 0.050 0.051 0.049#
7.79													
113)	T	CHLOROPRENE											0.381 0.398 0.433 0.408 0.420 0.408
4.89													
114)	T	PROPIONITRILE											0.058 0.057 0.062 0.059 0.059 0.059#
3.19													
115)	T	ETHYL ACETATE											0.375 0.366 0.395 0.385 0.390 0.382
3.10													
116)	T	METHACRYLONITRILE											0.137 0.134 0.140 0.133 0.133 0.135#
2.24													
117)		TERT-BUTYL FOR...											0.229 0.233 0.270 0.253 0.249 0.247#
6.66													

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 Method File : V826H21T.M
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118)	T	ISOBUTANOL	0.023	0.023	0.025	0.024	0.024	0.024	#
4.33									
119)	T	N-BUTANOL	0.014	0.014	0.015	0.014	0.014	0.014	#
4.15									
120)	T	METHYL METHACR...	0.297	0.287	0.306	0.299	0.302	0.298	#
2.34									
121)	T	1,4-DIOXANE	0.003	0.003	0.004	0.004	0.003	0.003	#
10.12									
122)	T	N-OCTANE	0.079	0.079	0.084	0.081	0.082	0.081	#
2.72									
123)	I	AP9-CHLOROBENZENE-D5	-----ISTD-----						
124)	T	2-NITROPROPANE	0.283	0.274	0.298	0.285	0.292	0.286	#
3.17									
125)		3,3-DIMETHYL-1...	0.112	0.106	0.126	0.118	0.118	0.116	#
6.36									
126)	T	ETHYL METHACRY...	0.929	0.908	0.952	0.928	0.932	0.930	
1.69									
127)	I	AP9-1,4-DICHLOROBE...	-----ISTD-----						
128)	T	CIS-1,4-DICHLO...	0.194	0.213	0.227	0.225	0.233	0.218	#
7.02									
129)	T	CYCLOHEXANONE	0.024	0.022	0.028	0.024	0.024	0.025	#
8.54									
130)	T	PENTACHLOROETHANE							0.000#
-1.00									
131)	T	HEXACHLOROETHANE	0.337	0.325	0.345	0.334	0.343	0.337	
2.43									

(#) = Out of Range

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 05.D
 Acq On : 19 Aug 2020 9:03 pm
 Operator : 808
 Sample : STD VMS 0.04 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 5 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:53:34 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:52:34 2020
 Response via : Initial Calibration

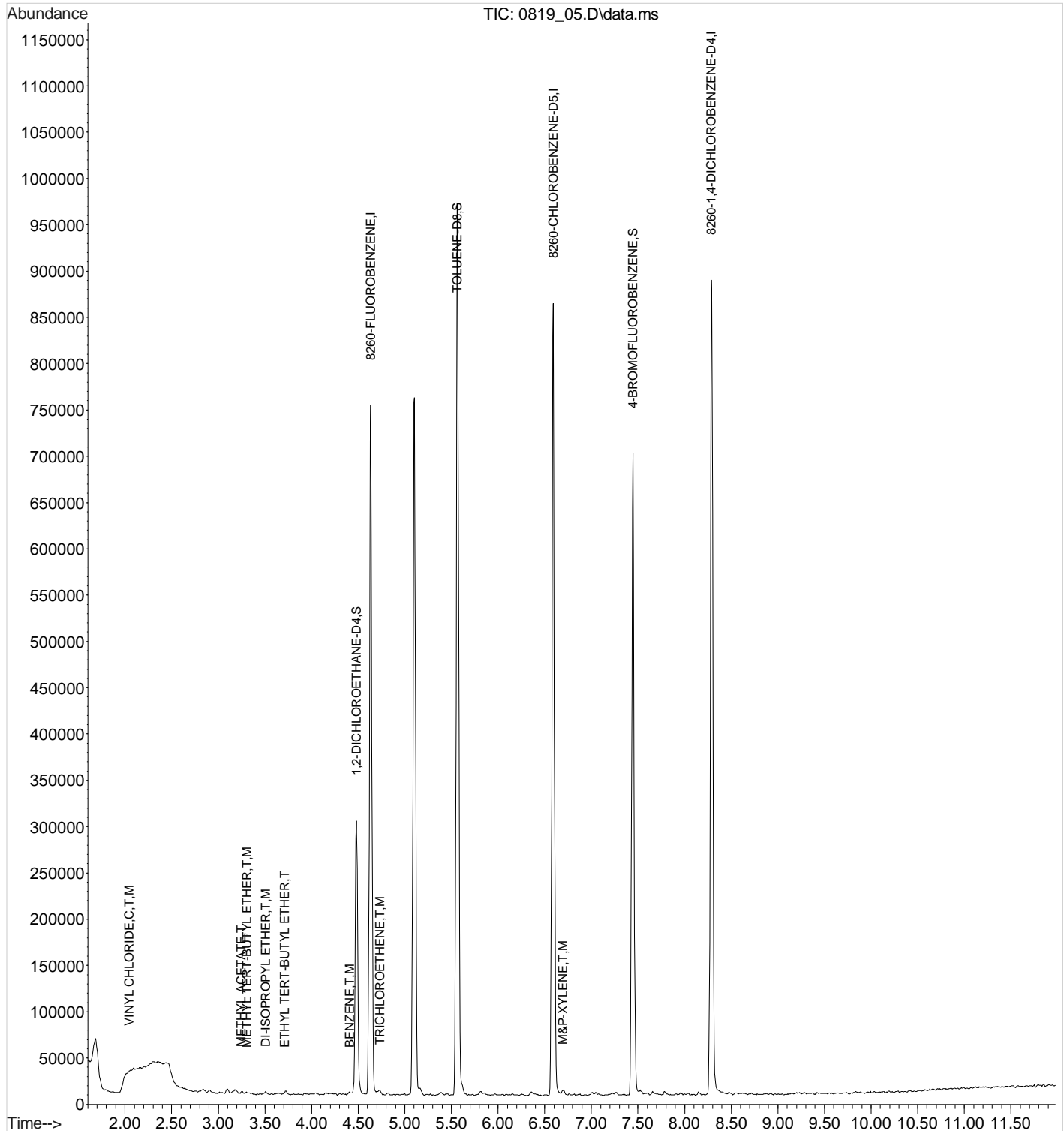
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	664504	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	280610	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.287	152	277535	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.63
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.59
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-8.29
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.483	65	195861	14.5684198	ppb	0.00
Spiked Amount 16.000			Recovery	=	91.05%	
61) TOLUENE-D8	5.562	98	675250	17.0233350	ppb	0.00
Spiked Amount 16.000	Range	89 - 115	Recovery	=	106.40%	
80) 4-BROMOFLUOROBENZENE	7.446	95	259230	16.9837917	ppb	0.00
Spiked Amount 16.000	Range	70 - 129	Recovery	=	106.15%	
Target Compounds						Qvalue
7) VINYL CHLORIDE	2.044	62	441	0.0362365	ppb #	62
24) METHYL ACETATE	3.245	43	1533	0.1685899	ppb #	95
28) METHYL TERT-BUTYL ETHER	3.306	73	1462	0.0490432	ppb #	44
32) DI-ISOPROPYL ETHER	3.507	45	2464	0.0717218	ppb #	84
33) ETHYL TERT-BUTYL ETHER	3.715	59	1340	0.0422846	ppb	92
46) BENZENE	4.410	78	2054	0.0503161	ppb #	91
51) TRICHLOROETHENE	4.733	132	522	0.0439275	ppb #	42
73) M&P-XYLENE	6.696	106	1529	0.0891332	ppb	92

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

Data Path : C:\msdchem\1\data\081920\
Data File : 0819 05.D
Acq On : 19 Aug 2020 9:03 pm
Operator : 808
Sample : STD VMS 0.04 PPB 20H19610
Misc : soil surr/is 20G06381
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS26

Quant Time: Aug 20 08:53:34 2020
Quant Method : C:\msdchem\1\methods\V826H19T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 08:52:34 2020
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 06.D
 Acq On : 19 Aug 2020 9:23 pm
 Operator : 808
 Sample : STD VMS 0.1 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:55:13 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:53:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	665599	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	282534	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.287	152	284026	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.63
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.59
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-8.29
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.483	65	199246	15.0197993	ppb	0.00
Spiked Amount	16.000		Recovery	=	93.87%	
61) TOLUENE-D8	5.568	98	672439	16.6594403	ppb	0.00
Spiked Amount	16.000	Range 89 - 115	Recovery	=	104.12%	
80) 4-BROMOFLUOROBENZENE	7.446	95	262031	16.8774398	ppb	0.00
Spiked Amount	16.000	Range 70 - 129	Recovery	=	105.48%	
Target Compounds						
2) TPH (GC/MS) LOW FRACTION	4.000	TIC	100754m	0.0356930	ppm	
3) LRH (C5-C8)	4.000	TIC	79804m	0.0017510	ppm	
4) PROPENE	1.739	41	1173	0.2062236	ppb #	39
5) DICHLORODIFLUOROMETHANE	1.788	85	2589	0.1968452	ppb #	43
6) CHLOROMETHANE	1.971	50	1696	0.1348514	ppb #	87
7) VINYL CHLORIDE	2.044	62	1534	0.1278445	ppb #	92
8) 1,3-BUTADIENE	2.032	39	5499	0.6077126	ppb #	30
9) BROMOMETHANE	2.300	94	956	0.1172838	ppb #	53
10) CHLOROETHANE	2.398	64	1291	0.1998848	ppb #	74
11) VINYL BROMIDE	2.471	106	2017	0.2247199	ppb	96
12) TRICHLOROFLUOROMETHANE	2.465	101	1845	0.1251961	ppb #	74
13) DICHLOROFLUOROMETHANE	2.507	67	3333	0.1721701	ppb #	43
14) ETHYL ETHER	2.660	59	1096	0.1268938	ppb #	66
15) ACROLEIN	3.026	56	775	1.1432630	ppb #	57
16) ETHANOL	2.739	45	1746	12.3147142	ppb #	34
17) 1,1-DICHLOROETHENE	2.806	96	1331	0.1485142	ppb #	83
18) 1,1,2-TRICHLOROTRIFLUO...	2.849	101	876	0.0981365	ppb #	72
19) ACETONE	3.190	43	5804	1.3721681	ppb #	79
20) IODOMETHANE	2.910	142	10508	0.5666021	ppb	97
21) CARBON DISULFIDE	2.843	76	5562	0.2148436	ppb #	83
22) ALLYL CHLORIDE	3.099	76	3423	0.6074173	ppb	79
23) METHYLENE CHLORIDE	3.166	84	1746	0.1703157	ppb	89
24) METHYL ACETATE	3.251	43	3905	0.4402653	ppb #	90
25) ACRYLONITRILE	3.654	53	3665	0.6684778	ppb	86
26) n-HEXANE	3.294	56	540	0.0953972	ppb #	51
27) TRANS-1,2-DICHLOROETHENE	3.257	96	2333	0.2288305	ppb #	51
28) METHYL TERT-BUTYL ETHER	3.312	73	3889	0.1255137	ppb	95
29) TERT-BUTYL ALCOHOL	3.349	59	1311	0.7058246	ppb #	100
30) 1,1-DICHLOROETHANE	3.623	63	2345	0.1263805	ppb	93
31) VINYL ACETATE	3.733	43	12975	0.5665941	ppb #	92
32) DI-ISOPROPYL ETHER	3.507	45	4544	0.1166328	ppb	89
33) ETHYL TERT-BUTYL ETHER	3.715	59	3483	0.1086929	ppb #	91
34) 2,2-DICHLOROPROPANE	3.989	77	2758	0.2166354	ppb #	73
35) CIS-1,2-DICHLOROETHENE	3.922	96	1593	0.1364121	ppb #	79
36) 2-BUTANONE (MEK)	4.233	43	4468	0.6117561	ppb	99
37) BROMOCHLOROMETHANE	4.044	130	878	0.1141778	ppb #	72
38) TETRAHYDROFURAN	4.166	42	1364	0.2960444	ppb #	84

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 06.D
 Acq On : 19 Aug 2020 9:23 pm
 Operator : 808
 Sample : STD VMS 0.1 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:55:13 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:53:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
39) CHLOROFORM	4.062	83	2994	0.1590633	ppb	#	89
40) CYCLOHEXANE	4.050	84	2004	0.1749120	ppb	#	78
41) 1,1,1-TRICHLOROETHANE	4.202	97	1635	0.1012291	ppb	#	91
42) CARBON TETRACHLORIDE	4.160	117	2020	0.1428237	ppb		81
43) 1,1-DICHLOROPROPENE	4.263	75	1617	0.1198143	ppb		95
44) 2,2,4-TRIMETHYLPENTANE	4.306	57	1498	0.1014049	ppb	#	49
45) n-Heptane	4.342	71	420	0.1035797	ppb	#	72
46) BENZENE	4.410	78	4560	0.1069249	ppb		96
47) TERT-AMYL METHYL ETHER	4.434	73	4607	0.1493931	ppb	#	86
49) 1,2-DICHLOROETHANE	4.525	62	1884	0.1346831	ppb		96
50) T-AMYL ALCOHOL	4.525	59	966	0.5439754	ppb		97
51) TRICHLOROETHENE	4.733	132	1222	0.1010118	ppb	#	84
52) METHYL CYCLOHEXANE	4.739	83	1633	0.1521408	ppb	#	88
53) TERT-AMYL ETHYL ETHER	4.824	59	2772	0.1111251	ppb		82
54) 1,2-DICHLOROPROPANE	5.050	62	756	0.0992201	ppb	#	69
55) DIBROMOMETHANE	4.989	93	942	0.1306501	ppb	#	63
56) BROMODICHLOROMETHANE	5.068	83	2378	0.1640770	ppb	#	71
57) 2-CHLOROETHYL VINYL ETHER	5.385	63	4179	0.5190895	ppb	#	83
58) CIS-1,3-DICHLOROPROPENE	5.452	75	1748	0.0987837	ppb	#	84
60) 4-METHYL-2-PENTANONE (...)	5.812	43	7203	0.5079580	ppb	#	87
62) TOLUENE	5.598	91	5318	0.1205259	ppb		97
63) TRANS-1,3-DICHLOROPROPENE	5.848	75	1451	0.0917846	ppb	#	86
64) 1,1,2-TRICHLOROETHANE	5.958	97	1218	0.1268428	ppb	#	77
65) TETRACHLOROETHENE	5.854	164	1042	0.1229327	ppb		84
66) 1,3-DICHLOROPROPANE	6.147	76	1580	0.0998074	ppb		94
67) 2-HEXANONE	6.360	58	3464	0.5864499	ppb		84
68) CHLORODIBROMOMETHANE	6.086	129	1298	0.1092857	ppb	#	70
69) 1,2-DIBROMOETHANE	6.263	107	1311	0.1217012	ppb		95
70) CHLOROBENZENE	6.604	112	2998	0.1067043	ppb	#	1
71) 1,1,1,2-TETRACHLOROETHANE	6.641	133	1195	0.1146613	ppb	#	100
72) ETHYLBENZENE	6.598	106	1555	0.1085150	ppb		74
73) M&P-XYLENE	6.696	106	3607	0.2049390	ppb		97
74) O-XYLENE	7.007	106	1868	0.1090262	ppb		97
77) STYRENE	7.043	104	2972	0.1022987	ppb	#	76
78) BROMOFORM	7.086	173	972	0.1042612	ppb		93
79) ISOPROPYLBENZENE	7.220	105	4820	0.1224320	ppb		94
82) BROMOBENZENE	7.531	77	2460	0.1370978	ppb	#	80
83) 1,1,2,2-TETRACHLOROETHANE	7.574	83	1895	0.1337784	ppb	#	81
84) 1,2,3-TRICHLOROPROPANE	7.689	110	320	0.0727506	ppb	#	19
85) TRANS-1,4-DICHLORO-2-B...	7.714	53	875	0.2387441	ppb	#	22
86) N-PROPYLBENZENE	7.525	91	4280	0.0992266	ppb		99
87) 4-ETHYLTOLUENE	7.598	105	3873	0.1076500	ppb		90
88) 2-CHLOROTOLUENE	7.659	91	3010	0.1047124	ppb		100
89) 4-CHLOROTOLUENE	7.787	91	3105	0.1096102	ppb		94
90) 1,3,5-TRIMETHYLBENZENE	7.659	105	3295	0.1092391	ppb		96
91) TERT-BUTYLBENZENE	7.909	119	3151	0.1241422	ppb	#	82
92) 1,2,4-TRIMETHYLBENZENE	7.964	105	3071	0.1025648	ppb		99
93) SEC-BUTYLBENZENE	8.043	105	3859	0.1185926	ppb		92
94) 1,3-DICHLOROBENZENE	8.238	146	1671	0.0941363	ppb		88
95) P-ISOPROPYLTOLUENE	8.141	119	3176	0.1072623	ppb		97
96) DICYCLOPENTADIENE	8.147	66	4293	0.1244629	ppb		94
97) 1,4-DICHLOROBENZENE	8.305	146	2065	0.1154065	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	8.305	105	3354	0.1388706	ppb		95
99) 1,2-DICHLOROBENZENE	8.640	146	1662	0.0966320	ppb	#	90

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 06.D
 Acq On : 19 Aug 2020 9:23 pm
 Operator : 808
 Sample : STD VMS 0.1 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:55:13 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:53:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
100) N-BUTYLBENZENE	8.482	91	2457	0.1080416	ppb	#	94
101) 1,2-DIBROMO-3-CHLOROPR...	9.287	157	256	0.0618493	ppb	#	65
102) 1,3,5-TRICHLOROBENZENE	9.305	180	562	0.0623764	ppb	#	61
103) 1,2,4-TRICHLOROBENZENE	9.835	180	482	0.0591325	ppb	#	78
104) HEXACHLORO-1,3-BUTADIENE	9.793	225	408	0.1114237	ppb	#	19
105) NAPHTHALENE	10.110	128	3391	0.1104672	ppb	#	92
106) 1,2,3-TRICHLOROBENZENE	10.262	180	749	0.1006600	ppb	#	66
107) 1-METHYLNAPHTHALENE	10.988	142	876	0.0905653	ppb	#	92
108) 2-METHYLNAPHTHALENE	11.122	142	891	0.1023528	ppb	#	57

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

Quant Time: Aug 20 08:55:13 2020
Quant Method : C:\msdchem\1\methods\V826H19T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 08:53:52 2020
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 07.D
 Acq On : 19 Aug 2020 9:44 pm
 Operator : 808
 Sample : STD VMS 0.2 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 7 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:57:00 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:55:20 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	656141	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	273962	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.287	152	283455	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.63
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.59
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-8.29
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.483	65	193340	14.9152076	ppb	0.00
Spiked Amount 16.000			Recovery	=	93.22%	
61) TOLUENE-D8	5.568	98	665684	16.9085535	ppb	0.00
Spiked Amount 16.000	Range	89 - 115	Recovery	=	105.68%	
80) 4-BROMOFLUOROBENZENE	7.445	95	259476	17.1018208	ppb	0.00
Spiked Amount 16.000	Range	70 - 129	Recovery	=	106.89%	
Target Compounds						
2) TPH (GC/MS) LOW FRACTION	4.000	TIC	207971m	0.0747374	ppm	
3) LRH (C5-C8)	4.000	TIC	167886m	0.0037368	ppm	
4) PROPENE	1.745	41	1686	0.2554598	ppb #	75
5) DICHLORODIFLUOROMETHANE	1.782	85	3765	0.2500278	ppb #	83
6) CHLOROMETHANE	1.977	50	3781m	0.2882246	ppb	
7) VINYL CHLORIDE	2.038	62	2623	0.2132701	ppb #	81
8) 1,3-BUTADIENE	2.020	39	6713	0.4076344	ppb #	49
9) BROMOMETHANE	2.306	94	2121	0.2565682	ppb #	82
10) CHLOROETHANE	2.385	64	2406	0.3239585	ppb #	74
11) VINYL BROMIDE	2.465	106	2783	0.2604026	ppb #	80
12) TRICHLOROFLUOROMETHANE	2.465	101	3196	0.2111309	ppb #	66
13) DICHLOROFLUOROMETHANE	2.513	67	5413	0.2531909	ppb #	35
14) ETHYL ETHER	2.660	59	2220	0.2495488	ppb	95
15) ACROLEIN	3.038	56	1421	1.7509943	ppb	83
16) ETHANOL	2.745	45	1472	8.4672918	ppb #	85
17) 1,1-DICHLOROETHENE	2.806	96	1978	0.2071397	ppb	96
18) 1,1,2-TRICHLOROTRIFLUO...	2.843	101	1679	0.1914007	ppb #	74
19) ACETONE	3.184	43	9502	1.7655397	ppb	95
20) IODOMETHANE	2.910	142	21029	1.1252682	ppb	98
21) CARBON DISULFIDE	2.837	76	7017	0.2307802	ppb #	80
22) ALLYL CHLORIDE	3.099	76	6731	1.1697606	ppb	89
23) METHYLENE CHLORIDE	3.160	84	3598	0.3186830	ppb #	75
24) METHYL ACETATE	3.245	43	9352	1.0881520	ppb #	93
25) ACRYLONITRILE	3.647	53	5993	1.0498889	ppb	90
26) n-HEXANE	3.288	56	1742	0.3145936	ppb #	74
27) TRANS-1,2-DICHLOROETHENE	3.263	96	3316	0.2716151	ppb #	68
28) METHYL TERT-BUTYL ETHER	3.306	73	6916	0.2184620	ppb	97
29) TERT-BUTYL ALCOHOL	3.336	59	3047	1.5572686	ppb #	100
30) 1,1-DICHLOROETHANE	3.617	63	4183	0.2190552	ppb	94
31) VINYL ACETATE	3.727	43	25525	1.1013586	ppb	100
32) DI-ISOPROPYL ETHER	3.507	45	8272	0.2103826	ppb	95
33) ETHYL TERT-BUTYL ETHER	3.714	59	7794	0.2437045	ppb	96
34) 2,2-DICHLOROPROPANE	3.983	77	3968	0.2647130	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.922	96	3442	0.2818878	ppb #	76
36) 2-BUTANONE (MEK)	4.233	43	7736	1.0358880	ppb	97
37) BROMOCHLOROMETHANE	4.038	130	1840	0.2371252	ppb	87
38) TETRAHYDROFURAN	4.166	42	2123	0.3523076	ppb #	83

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 07.D
 Acq On : 19 Aug 2020 9:44 pm
 Operator : 808
 Sample : STD VMS 0.2 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 7 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:57:00 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:55:20 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
39) CHLOROFORM	4.062	83	4355	0.2136712	ppb	#	81
40) CYCLOHEXANE	4.050	84	2775	0.2184261	ppb		85
41) 1,1,1-TRICHLOROETHANE	4.196	97	3185	0.1996290	ppb		93
42) CARBON TETRACHLORIDE	4.160	117	3109	0.2081347	ppb		97
43) 1,1-DICHLOROPROPENE	4.263	75	2873	0.2090449	ppb	#	70
44) 2,2,4-TRIMETHYLPENTANE	4.306	57	2733	0.1872347	ppb	#	49
45) n-Heptane	4.342	71	909	0.2260588	ppb	#	95
46) BENZENE	4.409	78	9488	0.2234750	ppb		97
47) TERT-AMYL METHYL ETHER	4.434	73	7694	0.2338425	ppb		94
49) 1,2-DICHLOROETHANE	4.519	62	3824	0.2621561	ppb	#	84
50) T-AMYL ALCOHOL	4.525	59	1929	1.0860003	ppb	#	22
51) TRICHLOROETHENE	4.733	132	2394	0.2004534	ppb	#	61
52) METHYL CYCLOHEXANE	4.733	83	2221	0.1931228	ppb	#	93
53) TERT-AMYL ETHYL ETHER	4.824	59	5572	0.2224676	ppb		89
54) 1,2-DICHLOROPROPANE	5.050	62	1605	0.2139603	ppb	#	95
55) DIBROMOMETHANE	4.995	93	1861	0.2491056	ppb	#	66
56) BROMODICHLOROMETHANE	5.068	83	3353	0.2120399	ppb	#	83
57) 2-CHLOROETHYL VINYL ETHER	5.385	63	8061	1.0092983	ppb		91
58) CIS-1,3-DICHLOROPROPENE	5.446	75	3464	0.1989842	ppb	#	58
60) 4-METHYL-2-PENTANONE (...)	5.812	43	16551	1.2005176	ppb		94
62) TOLUENE	5.598	91	9833	0.2222234	ppb		95
63) TRANS-1,3-DICHLOROPROPENE	5.848	75	3151	0.2084102	ppb	#	66
64) 1,1,2-TRICHLOROETHANE	5.958	97	2194	0.2255423	ppb		93
65) TETRACHLOROETHENE	5.848	164	1809	0.2119966	ppb		92
66) 1,3-DICHLOROPROPANE	6.147	76	3479	0.2267147	ppb	#	87
67) 2-HEXANONE	6.360	58	6936	1.1770760	ppb		91
68) CHLORODIBROMOMETHANE	6.086	129	2639	0.2256518	ppb		90
69) 1,2-DIBROMOETHANE	6.269	107	2528	0.2335711	ppb		92
70) CHLOROBENZENE	6.604	112	6672	0.2421927	ppb	#	52
71) 1,1,1,2-TETRACHLOROETHANE	6.635	133	2402	0.2320159	ppb	#	100
72) ETHYLBENZENE	6.598	106	3397	0.2410544	ppb		91
73) M&P-XYLENE	6.696	106	7571	0.4420615	ppb		94
74) O-XYLENE	7.007	106	3495	0.2072511	ppb		95
77) STYRENE	7.043	104	5922	0.2094158	ppb		95
78) BROMOFORM	7.080	173	1856	0.2038644	ppb		93
79) ISOPROPYLBENZENE	7.220	105	8910	0.2249911	ppb	#	85
82) BROMOBENZENE	7.537	77	3881	0.2041072	ppb		95
83) 1,1,2,2-TETRACHLOROETHANE	7.573	83	3367	0.2254798	ppb	#	77
84) 1,2,3-TRICHLOROPROPANE	7.689	110	1054	0.2515282	ppb	#	97
85) TRANS-1,4-DICHLORO-2-B...	7.714	53	1222	0.2713482	ppb	#	55
86) N-PROPYLBENZENE	7.525	91	8862	0.2061342	ppb	#	97
87) 4-ETHYLTOLUENE	7.598	105	7164	0.1970125	ppb		98
88) 2-CHLOROTOLUENE	7.659	91	6104	0.2111167	ppb	#	94
89) 4-CHLOROTOLUENE	7.787	91	6081	0.2117081	ppb		99
90) 1,3,5-TRIMETHYLBENZENE	7.659	105	6148	0.2011379	ppb		96
91) TERT-BUTYLBENZENE	7.909	119	5728	0.2173781	ppb		96
92) 1,2,4-TRIMETHYLBENZENE	7.958	105	6842	0.2279938	ppb		94
93) SEC-BUTYLBENZENE	8.043	105	7084	0.2115836	ppb		96
94) 1,3-DICHLOROBENZENE	8.238	146	3703	0.2110929	ppb		96
95) P-ISOPROPYLTOLUENE	8.147	119	6064	0.2027565	ppb		95
96) DICYCLOPENTADIENE	8.153	66	7408	0.2067752	ppb		99
97) 1,4-DICHLOROBENZENE	8.299	146	3760	0.2052869	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	8.305	105	6157	0.2398992	ppb		93
99) 1,2-DICHLOROBENZENE	8.640	146	3345	0.1959768	ppb	#	92

Data Path : C:\msdchem\1\data\081920\
Data File : 0819 07.D
Acq On : 19 Aug 2020 9:44 pm
Operator : 808
Sample : STD VMS 0.2 PPB 20H19610
Misc : soil surr/is 20G06381
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS26

Quant Time: Aug 20 08:57:00 2020
Quant Method : C:\msdchem\1\methods\V826H19T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 08:55:20 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
100) N-BUTYLBENZENE	8.476	91	4452	0.1935678	ppb		96
101) 1,2-DIBROMO-3-CHLOROPR...	9.280	157	833	0.2153502	ppb		95
102) 1,3,5-TRICHLOROBENZENE	9.299	180	1791	0.2125092	ppb	#	88
103) 1,2,4-TRICHLOROBENZENE	9.835	180	1522	0.2007726	ppb		95
104) HEXACHLORO-1,3-BUTADIENE	9.786	225	627	0.1683713	ppb	#	77
105) NAPHTHALENE	10.110	128	6078	0.1949975	ppb	#	94
106) 1,2,3-TRICHLOROBENZENE	10.262	180	1340	0.1802505	ppb		96
107) 1-METHYLNAPHTHALENE	10.981	142	1831	0.1927096	ppb	#	86
108) 2-METHYLNAPHTHALENE	11.115	142	1906	0.2185340	ppb	#	71

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

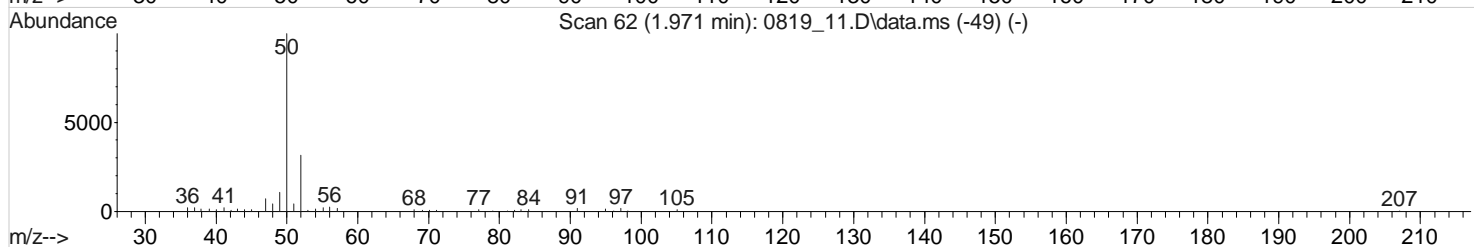
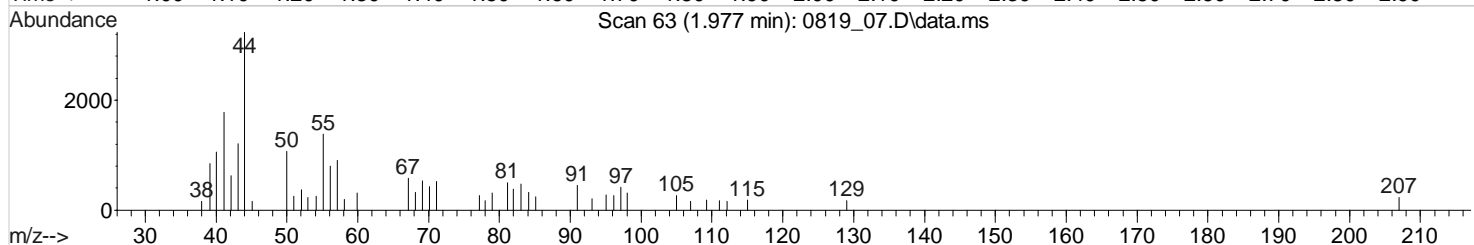
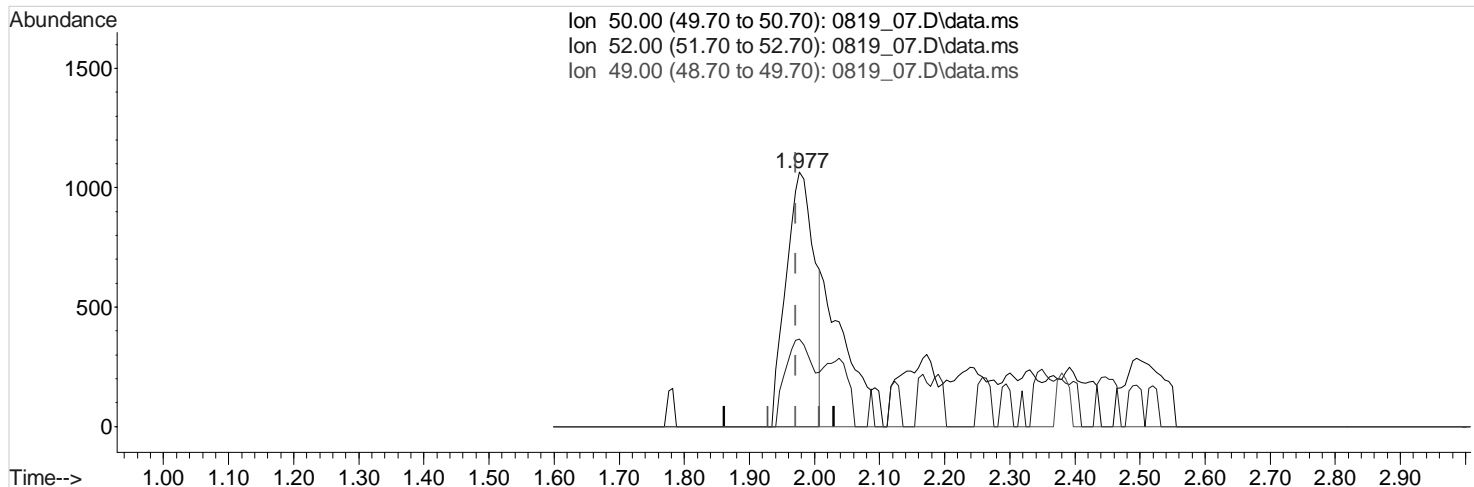
Quant Time: Aug 20 08:57:00 2020
Quant Method : C:\msdchem\1\methods\V826H19T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 08:55:20 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 07.D
 Acq On : 19 Aug 2020 9:44 pm
 Operator : 808
 Sample : STD VMS 0.2 PPB 20H19610
 Misc : soil
 ALS Vial : 7 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:55:27 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:55:20 2020
 Response via : Initial Calibration



TIC: 0819_07.D\data.ms

(6) CHLOROMETHANE (P,T,M)

1.977min (+0.006) 0.2450786 ppb

Qvalue = 93

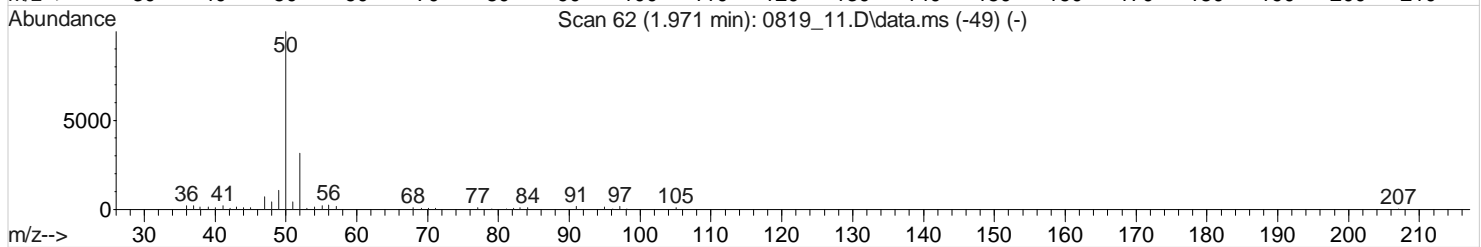
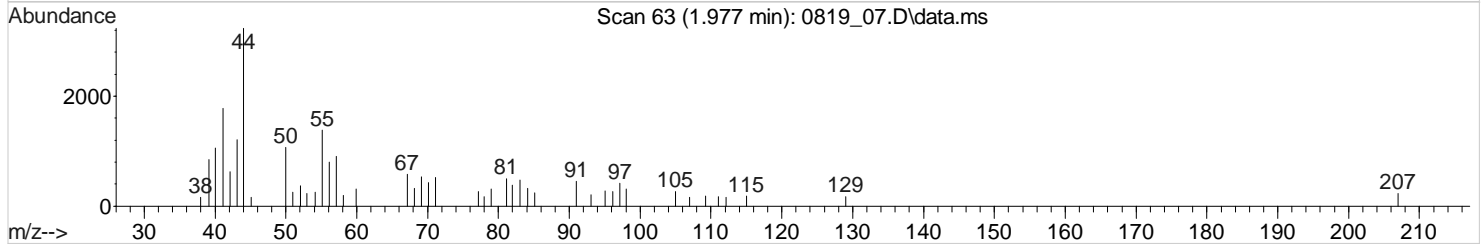
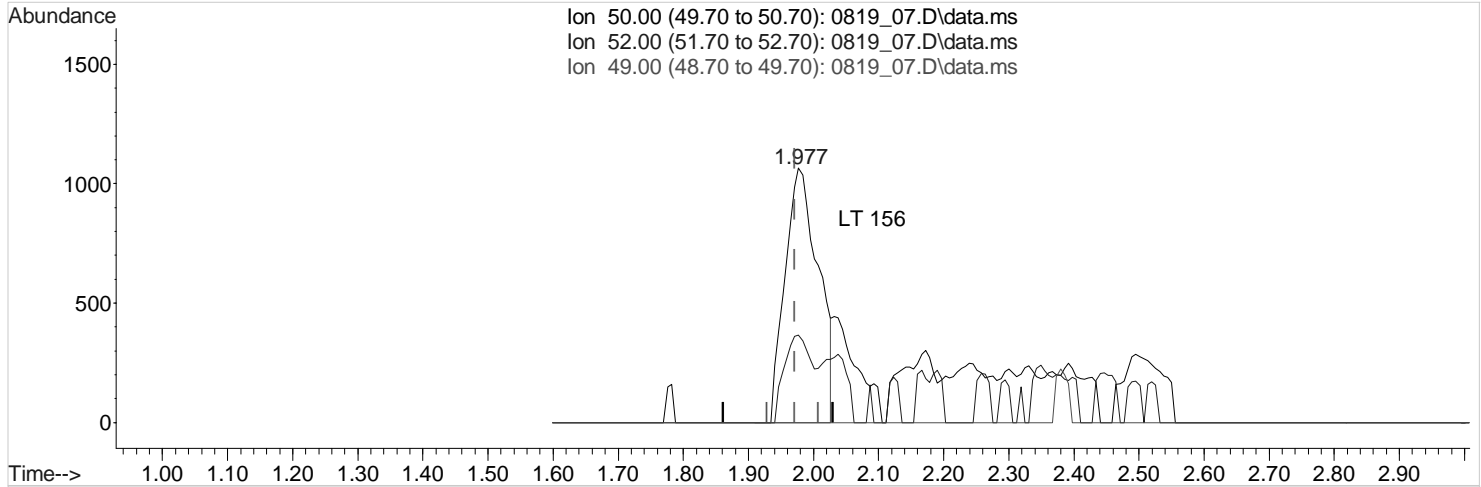
response 3215

Ion	Exp%	Act%
50.00	100	100
52.00	33.00	32.01
49.00	9.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 07.D
 Acq On : 19 Aug 2020 9:44 pm
 Operator : 808
 Sample : STD VMS 0.2 PPB 20H19610
 Misc : soil
 ALS Vial : 7 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:55:27 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:55:20 2020
 Response via : Initial Calibration



TIC: 0819_07.D\data.ms

(6) CHLOROMETHANE (P,T,M)
 1.977min (+0.006) 0.2882246 ppb m

response 3781

Ion	Exp%	Act%
50.00	100	100
52.00	33.00	27.22
49.00	9.60	0.00#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 08.D
 Acq On : 19 Aug 2020 10:04 pm
 Operator : 808
 Sample : STD VMS 0.5 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 8 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:58:21 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:57:06 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	662928	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	275039	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.293	152	280829	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.63
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.59
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-8.29
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.483	65	196942	15.1660698	ppb	0.00
Spiked Amount	16.000		Recovery	=	94.79%	
61) TOLUENE-D8	5.568	98	658476	16.5425543	ppb	0.00
Spiked Amount	16.000	Range 89 - 115	Recovery	=	103.39%	
80) 4-BROMOFLUOROBENZENE	7.445	95	257224	16.7428850	ppb	0.00
Spiked Amount	16.000	Range 70 - 129	Recovery	=	104.64%	
Target Compounds						
2) TPH (GC/MS) LOW FRACTION	4.000	TIC	403883m	0.1436555	ppm	
3) LRH (C5-C8)	4.000	TIC	413846m	0.0091170	ppm	
4) PROPENE	1.751	41	1514	0.2183984	ppb	96
5) DICHLORODIFLUOROMETHANE	1.788	85	4815	0.3055639	ppb #	74
6) CHLOROMETHANE	1.977	50	6200	0.4400544	ppb	95
7) VINYL CHLORIDE	2.038	62	5278	0.4212547	ppb #	51
8) 1,3-BUTADIENE	2.032	39	7131	0.3732297	ppb #	77
9) BROMOMETHANE	2.300	94	4185	0.4815991	ppb #	85
10) CHLOROETHANE	2.392	64	4142	0.5070952	ppb	94
11) VINYL BROMIDE	2.465	106	4776	0.4240165	ppb	91
12) TRICHLOROFLUOROMETHANE	2.471	101	4629	0.3002781	ppb #	76
13) DICHLOROFLUOROMETHANE	2.513	67	9649	0.4303566	ppb #	80
14) ETHYL ETHER	2.660	59	4541	0.4879553	ppb	94
15) ACROLEIN	3.019	56	1576	1.7358744	ppb	96
16) ETHANOL	2.751	45	2961	17.2353786	ppb #	96
17) 1,1-DICHLOROETHENE	2.806	96	3899	0.4020795	ppb	95
18) 1,1,2-TRICHLOROTRIFLUO...	2.843	101	2419	0.2746220	ppb #	65
19) ACETONE	3.190	43	14955	2.4791687	ppb	94
20) IODOMETHANE	2.910	142	44111	2.2951547	ppb	99
21) CARBON DISULFIDE	2.843	76	13585	0.4327058	ppb	96
22) ALLYL CHLORIDE	3.099	76	13412	2.2523462	ppb	99
23) METHYLENE CHLORIDE	3.166	84	7169	0.5793594	ppb #	81
24) METHYL ACETATE	3.251	43	20264	2.3082441	ppb #	90
25) ACRYLONITRILE	3.647	53	13499	2.3240595	ppb	95
26) n-HEXANE	3.294	56	2063	0.3408503	ppb #	73
27) TRANS-1,2-DICHLOROETHENE	3.263	96	5689	0.4387731	ppb	86
28) METHYL TERT-BUTYL ETHER	3.306	73	14715	0.4548095	ppb	92
29) TERT-BUTYL ALCOHOL	3.337	59	5678	2.6604215	ppb #	100
30) 1,1-DICHLOROETHANE	3.617	63	8658	0.4427340	ppb	91
31) VINYL ACETATE	3.733	43	54138	2.2736349	ppb	99
32) DI-ISOPROPYL ETHER	3.507	45	17367	0.4343559	ppb	97
33) ETHYL TERT-BUTYL ETHER	3.714	59	15119	0.4554631	ppb	94
34) 2,2-DICHLOROPROPANE	3.989	77	6729	0.4246787	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.922	96	6309	0.4831361	ppb	85
36) 2-BUTANONE (MEK)	4.227	43	17616	2.3228095	ppb	97
37) BROMOCHLOROMETHANE	4.038	130	3633	0.4514291	ppb	99
38) TETRAHYDROFURAN	4.166	42	3207	0.4750639	ppb #	96

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 08.D
 Acq On : 19 Aug 2020 10:04 pm
 Operator : 808
 Sample : STD VMS 0.5 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 8 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:58:21 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:57:06 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) CHLOROFORM	4.062	83	9120	0.4385944	ppb	97
40) CYCLOHEXANE	4.050	84	4695	0.3610184	ppb	90
41) 1,1,1-TRICHLOROETHANE	4.196	97	6691	0.4151941	ppb	95
42) CARBON TETRACHLORIDE	4.160	117	5397	0.3555419	ppb	99
43) 1,1-DICHLOROPROPENE	4.263	75	5351	0.3828890	ppb	# 85
44) 2,2,4-TRIMETHYLPENTANE	4.300	57	4553	0.3115683	ppb	93
45) n-Heptane	4.342	71	1643	0.3970237	ppb	# 74
46) BENZENE	4.409	78	18758	0.4309690	ppb	97
47) TERT-AMYL METHYL ETHER	4.434	73	15250	0.4479180	ppb	98
49) 1,2-DICHLOROETHANE	4.519	62	6718	0.4364627	ppb	# 92
50) T-AMYL ALCOHOL	4.525	59	4453	2.4511963	ppb	# 81
51) TRICHLOROETHENE	4.733	132	5560	0.4606508	ppb	97
52) METHYL CYCLOHEXANE	4.739	83	3109	0.2688903	ppb	95
53) TERT-AMYL ETHYL ETHER	4.824	59	11702	0.4551266	ppb	94
54) 1,2-DICHLOROPROPANE	5.050	62	3666	0.4789302	ppb	95
55) DIBROMOMETHANE	4.995	93	3621	0.4634729	ppb	93
56) BROMODICHLOROMETHANE	5.068	83	6843	0.4246611	ppb	# 76
57) 2-CHLOROETHYL VINYL ETHER	5.385	63	18063	2.2355007	ppb	99
58) CIS-1,3-DICHLOROPROPENE	5.446	75	8310	0.4728113	ppb	# 81
60) 4-METHYL-2-PENTANONE (...)	5.812	43	34672	2.4353061	ppb	99
62) TOLUENE	5.598	91	21666	0.4801078	ppb	96
63) TRANS-1,3-DICHLOROPROPENE	5.848	75	7108	0.4654927	ppb	# 85
64) 1,1,2-TRICHLOROETHANE	5.958	97	4624	0.4650003	ppb	93
65) TETRACHLOROETHENE	5.848	164	3558	0.4118003	ppb	96
66) 1,3-DICHLOROPROPANE	6.147	76	7476	0.4761914	ppb	99
67) 2-HEXANONE	6.354	58	13998	2.3078520	ppb	94
68) CHLORODIBROMOMETHANE	6.086	129	5408	0.4523210	ppb	97
69) 1,2-DIBROMOETHANE	6.269	107	5091	0.4575620	ppb	93
70) CHLOROBENZENE	6.604	112	13353	0.4686888	ppb	# 77
71) 1,1,1,2-TETRACHLOROETHANE	6.635	133	4765	0.4482125	ppb	# 100
72) ETHYLBENZENE	6.598	106	6143	0.4218362	ppb	93
73) M&P-XYLENE	6.696	106	16220	0.9311188	ppb	96
74) O-XYLENE	7.007	106	7592	0.4461269	ppb	94
77) STYRENE	7.043	104	12488	0.4369370	ppb	93
78) BROMOFORM	7.080	173	3929	0.4286910	ppb	96
79) ISOPROPYLBENZENE	7.220	105	18363	0.4537778	ppb	95
82) BROMOBENZENE	7.531	77	8300	0.4393014	ppb	99
83) 1,1,2,2-TETRACHLOROETHANE	7.573	83	6898	0.4579276	ppb	98
84) 1,2,3-TRICHLOROPROPANE	7.695	110	2193	0.5094827	ppb	# 95
85) TRANS-1,4-DICHLORO-2-B...	7.708	53	2171	0.4629886	ppb	# 61
86) N-PROPYLBENZENE	7.525	91	19654	0.4594230	ppb	98
87) 4-ETHYLTOLUENE	7.598	105	15974	0.4443464	ppb	99
88) 2-CHLOROTOLUENE	7.659	91	13065	0.4525064	ppb	# 96
89) 4-CHLOROTOLUENE	7.781	91	12512	0.4360281	ppb	98
90) 1,3,5-TRIMETHYLBENZENE	7.659	105	13720	0.4526927	ppb	95
91) TERT-BUTYLBENZENE	7.909	119	11226	0.4247391	ppb	99
92) 1,2,4-TRIMETHYLBENZENE	7.958	105	13397	0.4417651	ppb	99
93) SEC-BUTYLBENZENE	8.043	105	13817	0.4131244	ppb	97
94) 1,3-DICHLOROBENZENE	8.238	146	8124	0.4637719	ppb	97
95) P-ISOPROPYLTOLUENE	8.147	119	12570	0.4233882	ppb	94
96) DICYCLOPENTADIENE	8.153	66	16005	0.4487440	ppb	100
97) 1,4-DICHLOROBENZENE	8.305	146	8517	0.4675900	ppb	# 1
98) 1,2,3-TRIMETHYLBENZENE	8.305	105	11412	0.4363746	ppb	99
99) 1,2-DICHLOROBENZENE	8.640	146	7550	0.4477623	ppb	97

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 08.D
 Acq On : 19 Aug 2020 10:04 pm
 Operator : 808
 Sample : STD VMS 0.5 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 8 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:58:21 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:57:06 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
100) N-BUTYLBENZENE	8.476	91	9324	0.4110761	ppb		92
101) 1,2-DIBROMO-3-CHLOROPR...	9.280	157	1989	0.5133829	ppb	#	82
102) 1,3,5-TRICHLOROBENZENE	9.299	180	3725	0.4421681	ppb		98
103) 1,2,4-TRICHLOROBENZENE	9.829	180	3529	0.4696173	ppb	#	89
104) HEXACHLORO-1,3-BUTADIENE	9.793	225	1415	0.3923947	ppb		99
105) NAPHTHALENE	10.103	128	13548	0.4402915	ppb		98
106) 1,2,3-TRICHLOROBENZENE	10.262	180	3276	0.4511572	ppb		94
107) 1-METHYLNAPHTHALENE	10.981	142	3981	0.4251252	ppb	#	91
108) 2-METHYLNAPHTHALENE	11.115	142	3955	0.4517239	ppb	#	84

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

Quant Time: Aug 20 08:58:21 2020
Quant Method : C:\msdchem\1\methods\V826H19T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 08:57:06 2020
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 09.D
 Acq On : 19 Aug 2020 10:25 pm
 Operator : 808
 Sample : STD VMS 1 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 9 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:59:52 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:58:28 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	658446	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	275940	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.287	152	283754	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.63
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.59
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-8.29
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.483	65	207610	16.1901757	ppb	0.00
Spiked Amount 16.000			Recovery	= 101.19%		
61) TOLUENE-D8	5.568	98	702004	17.5125179	ppb	0.00
Spiked Amount 16.000	Range 89 - 115		Recovery	= 109.45%		
80) 4-BROMOFLUOROBENZENE	7.445	95	271045	17.4946434	ppb	0.00
Spiked Amount 16.000	Range 70 - 129		Recovery	= 109.34%		
Target Compounds						
					Qvalue	
2) TPH (GC/MS) LOW FRACTION	4.000	TIC	1008289m	0.4393567	ppm	
3) LRH (C5-C8)	4.000	TIC	1014867m	0.0225096	ppm	
4) PROPENE	1.745	41	2965	0.4632320	ppb #	87
5) DICHLORODIFLUOROMETHANE	1.788	85	11406	0.7659957	ppb #	84
6) CHLOROMETHANE	1.977	50	12983	0.9418760	ppb	99
7) VINYL CHLORIDE	2.044	62	11274	0.9220758	ppb #	93
8) 1,3-BUTADIENE	2.032	39	11786	0.6413943	ppb	83
9) BROMOMETHANE	2.300	94	9317	1.0844635	ppb	98
10) CHLOROETHANE	2.385	64	7831	0.9635476	ppb	93
11) VINYL BROMIDE	2.465	106	10886	0.9918868	ppb	81
12) TRICHLOROFLUOROMETHANE	2.471	101	13441	0.9239722	ppb	97
13) DICHLOROFLUOROMETHANE	2.513	67	21321	0.9743792	ppb #	87
14) ETHYL ETHER	2.660	59	9647	1.0468314	ppb	90
15) ACROLEIN	3.019	56	2677	3.0865600	ppb #	79
16) ETHANOL	2.751	45	5906	36.0096368	ppb #	92
17) 1,1-DICHLOROETHENE	2.806	96	8536	0.9084963	ppb	94
18) 1,1,2-TRICHLOROTRIFLUO...	2.843	101	7114	0.8616801	ppb #	91
19) ACETONE	3.184	43	24912	4.1622393	ppb	92
20) IODOMETHANE	2.910	142	98481	5.2123649	ppb	100
21) CARBON DISULFIDE	2.843	76	28121	0.9172306	ppb	99
22) ALLYL CHLORIDE	3.099	76	29698	5.0842431	ppb	98
23) METHYLENE CHLORIDE	3.166	84	12419	0.9908099	ppb	91
24) METHYL ACETATE	3.245	43	43716	5.0566198	ppb #	92
25) ACRYLONITRILE	3.647	53	28494	4.9829057	ppb	98
26) n-HEXANE	3.294	56	5598	0.9697865	ppb #	96
27) TRANS-1,2-DICHLOROETHENE	3.263	96	11580	0.9131830	ppb	91
28) METHYL TERT-BUTYL ETHER	3.306	73	30278	0.9517569	ppb	100
29) TERT-BUTYL ALCOHOL	3.342	59	9917	4.6410042	ppb #	100
30) 1,1-DICHLOROETHANE	3.617	63	18490	0.9657638	ppb	93
31) VINYL ACETATE	3.727	43	116153	4.9756459	ppb	100
32) DI-ISOPROPYL ETHER	3.507	45	35711	0.9125383	ppb	97
33) ETHYL TERT-BUTYL ETHER	3.714	59	33094	1.0137836	ppb	99
34) 2,2-DICHLOROPROPANE	3.989	77	14442	0.9352751	ppb	98
35) CIS-1,2-DICHLOROETHENE	3.922	96	13223	1.0238115	ppb	86
36) 2-BUTANONE (MEK)	4.226	43	35375	4.7382036	ppb	95
37) BROMOCHLOROMETHANE	4.037	130	7742	0.9804586	ppb	100
38) TETRAHYDROFURAN	4.166	42	5811	0.8720994	ppb	95

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 09.D
 Acq On : 19 Aug 2020 10:25 pm
 Operator : 808
 Sample : STD VMS 1 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 9 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:59:52 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:58:28 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) CHLOROFORM	4.062	83	19332	0.9506267	ppb	98
40) CYCLOHEXANE	4.050	84	10211	0.8189668	ppb	94
41) 1,1,1-TRICHLOROETHANE	4.196	97	15187	0.9693599	ppb	99
42) CARBON TETRACHLORIDE	4.159	117	13188	0.9074821	ppb	98
43) 1,1-DICHLOROPROPENE	4.263	75	12979	0.9632308	ppb	98
44) 2,2,4-TRIMETHYLPENTANE	4.300	57	13577	0.9816620	ppb	99
45) n-Heptane	4.342	71	3405	0.8502941	ppb	# 94
46) BENZENE	4.409	78	41804	0.9820585	ppb	99
47) TERT-AMYL METHYL ETHER	4.434	73	31655	0.9484383	ppb	98
49) 1,2-DICHLOROETHANE	4.519	62	14463	0.9613147	ppb	# 90
50) T-AMYL ALCOHOL	4.525	59	9811	5.4506203	ppb	92
51) TRICHLOROETHENE	4.732	132	11850	0.9971853	ppb	96
52) METHYL CYCLOHEXANE	4.739	83	9363	0.8652908	ppb	96
53) TERT-AMYL ETHYL ETHER	4.824	59	25291	1.0015761	ppb	97
54) 1,2-DICHLOROPROPANE	5.043	62	7597	1.0045273	ppb	96
55) DIBROMOMETHANE	4.995	93	7309	0.9505700	ppb	95
56) BROMODICHLOROMETHANE	5.068	83	14535	0.9255822	ppb	# 90
57) 2-CHLOROETHYL VINYL ETHER	5.385	63	40277	5.0859266	ppb	99
58) CIS-1,3-DICHLOROPROPENE	5.446	75	17270	0.9960643	ppb	# 88
60) 4-METHYL-2-PENTANONE (...)	5.812	43	76086	5.3439959	ppb	98
62) TOLUENE	5.598	91	45632	1.0129180	ppb	98
63) TRANS-1,3-DICHLOROPROPENE	5.848	75	16543	1.0892365	ppb	97
64) 1,1,2-TRICHLOROETHANE	5.958	97	10458	1.0575001	ppb	97
65) TETRACHLOROETHENE	5.854	164	8735	1.0304017	ppb	96
66) 1,3-DICHLOROPROPANE	6.147	76	16425	1.0490350	ppb	99
67) 2-HEXANONE	6.354	58	30086	4.9920468	ppb	98
68) CHLORODIBROMOMETHANE	6.086	129	11653	0.9831849	ppb	95
69) 1,2-DIBROMOETHANE	6.263	107	10791	0.9770582	ppb	99
70) CHLOROBENZENE	6.604	112	29030	1.0236355	ppb	89
71) 1,1,1,2-TETRACHLOROETHANE	6.635	133	10811	1.0268949	ppb	# 100
72) ETHYLBENZENE	6.598	106	14387	1.0043468	ppb	97
73) M&P-XYLENE	6.696	106	35337	2.0375121	ppb	99
74) O-XYLENE	7.006	106	17798	1.0566764	ppb	96
77) STYRENE	7.043	104	27860	0.9871615	ppb	95
78) BROMOFORM	7.080	173	8837	0.9784956	ppb	98
79) ISOPROPYLBENZENE	7.220	105	39645	0.9879055	ppb	97
82) BROMOBENZENE	7.531	77	16743	0.8905505	ppb	95
83) 1,1,2,2-TETRACHLOROETHANE	7.573	83	13805	0.9166471	ppb	# 95
84) 1,2,3-TRICHLOROPROPANE	7.695	110	4320	0.9909372	ppb	# 91
85) TRANS-1,4-DICHLORO-2-B...	7.707	53	2868	0.6109797	ppb	96
86) N-PROPYLBENZENE	7.525	91	42634	0.9964279	ppb	98
87) 4-ETHYLTOLUENE	7.598	105	35888	1.0019411	ppb	99
88) 2-CHLOROTOLUENE	7.659	91	29339	1.0177662	ppb	98
89) 4-CHLOROTOLUENE	7.781	91	27205	0.9535384	ppb	97
90) 1,3,5-TRIMETHYLBENZENE	7.659	105	30254	0.9997677	ppb	96
91) TERT-BUTYLBENZENE	7.909	119	25718	0.9814848	ppb	97
92) 1,2,4-TRIMETHYLBENZENE	7.957	105	29831	0.9879178	ppb	97
93) SEC-BUTYLBENZENE	8.043	105	31567	0.9548533	ppb	100
94) 1,3-DICHLOROBENZENE	8.238	146	17106	0.9752912	ppb	99
95) P-ISOPROPYLTOLUENE	8.146	119	28498	0.9685376	ppb	98
96) DICYCLOPENTADIENE	8.153	66	34510	0.9700384	ppb	100
97) 1,4-DICHLOROBENZENE	8.299	146	17338	0.9497531	ppb	# 1
98) 1,2,3-TRIMETHYLBENZENE	8.305	105	24859	0.9559714	ppb	97
99) 1,2-DICHLOROBENZENE	8.640	146	17357	1.0322484	ppb	98

Data Path : C:\msdchem\1\data\081920\
Data File : 0819 09.D
Acq On : 19 Aug 2020 10:25 pm
Operator : 808
Sample : STD VMS 1 PPB 20H19610
Misc : soil surr/is 20G06381
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS26

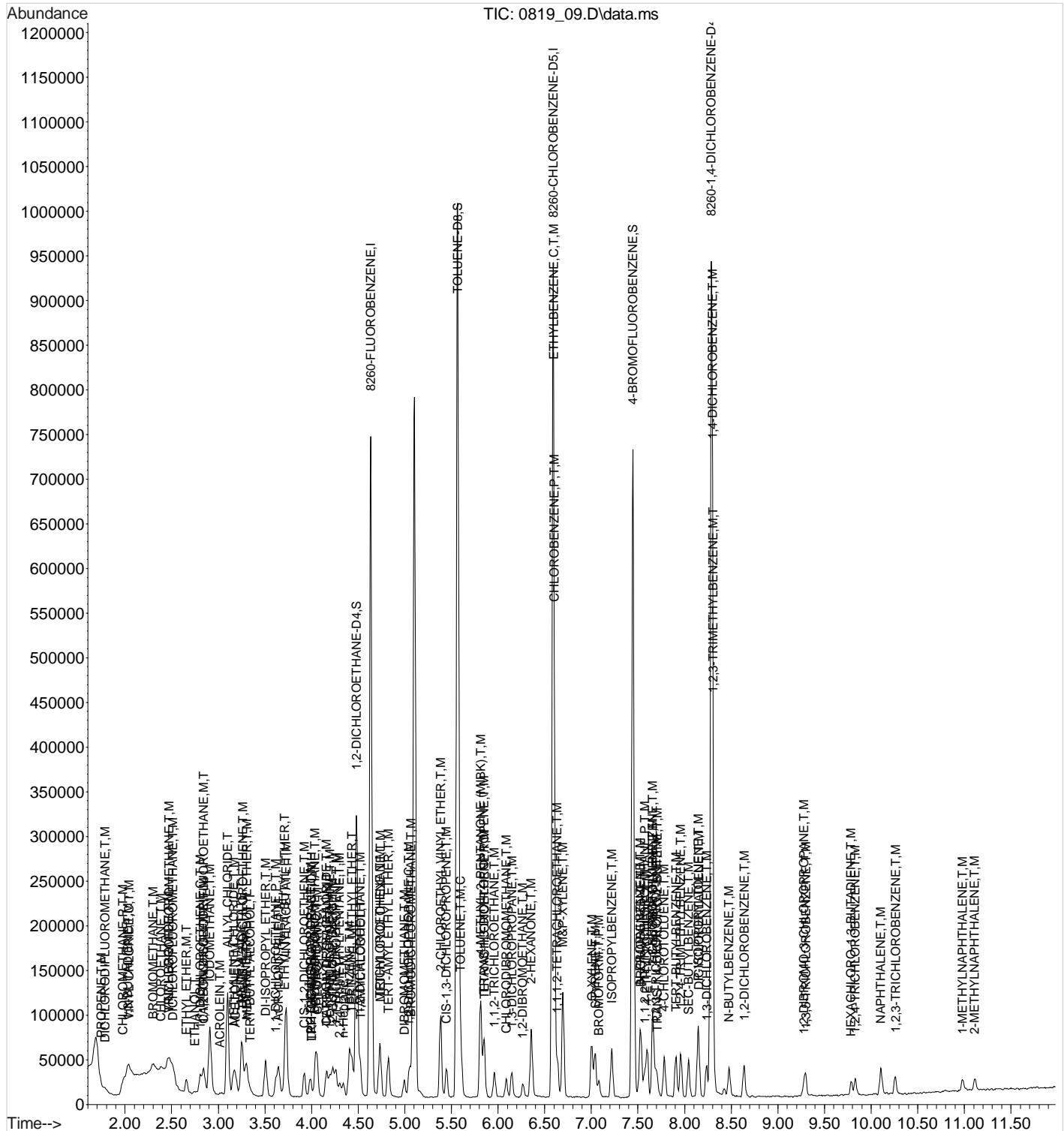
Quant Time: Aug 20 08:59:52 2020
Quant Method : C:\msdchem\1\methods\V826H19T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 08:58:28 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
100) N-BUTYLBENZENE	8.476	91	20402	0.9104507	ppb		100
101) 1,2-DIBROMO-3-CHLOROPR...	9.280	157	4360	1.1100498	ppb		84
102) 1,3,5-TRICHLOROBENZENE	9.299	180	8570	1.0215667	ppb		96
103) 1,2,4-TRICHLOROBENZENE	9.829	180	7063	0.9373310	ppb		92
104) HEXACHLORO-1,3-BUTADIENE	9.786	225	3427	0.9665489	ppb		97
105) NAPHTHALENE	10.103	128	29257	0.9552708	ppb		99
106) 1,2,3-TRICHLOROBENZENE	10.262	180	7393	1.0200944	ppb		99
107) 1-METHYLNAPHTHALENE	10.981	142	8661	0.9328229	ppb		98
108) 2-METHYLNAPHTHALENE	11.109	142	8332	0.9533431	ppb	#	87

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

Data Path : C:\msdchem\1\data\081920\
Data File : 0819 09.D
Acq On : 19 Aug 2020 10:25 pm
Operator : 808
Sample : STD VMS 1 PPB 20H19610
Misc : soil surr/is 20G06381
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS26

Quant Time: Aug 20 08:59:52 2020
Quant Method : C:\msdchem\1\methods\V826H19T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 08:58:28 2020
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 10.D
 Acq On : 19 Aug 2020 10:45 pm
 Operator : 808
 Sample : STD VMS 2 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 09:01:08 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:00:01 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	659304	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	280904	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.287	152	283827	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.63
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.59
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-8.29
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.482	65	219001	17.1379008	ppb	0.00
Spiked Amount 16.000			Recovery	= 107.11%		
61) TOLUENE-D8	5.568	98	747203	18.2556375	ppb	0.00
Spiked Amount 16.000	Range 89 - 115		Recovery	= 114.10%		
80) 4-BROMOFLUOROBENZENE	7.445	95	284798	18.0051004	ppb	0.00
Spiked Amount 16.000	Range 70 - 129		Recovery	= 112.53%		
Target Compounds						
					Qvalue	
2) TPH (GC/MS) LOW FRACTION	4.000	TIC	2078764m	1.0188771	ppm	
3) LRH (C5-C8)	4.000	TIC	2098412m	0.0464819	ppm	
4) PROPENE	1.745	41	7399	1.2276868	ppb	95
5) DICHLORODIFLUOROMETHANE	1.788	85	22945	1.5799987	ppb	98
6) CHLOROMETHANE	1.971	50	25260	1.8420455	ppb	99
7) VINYL CHLORIDE	2.044	62	22183	1.8261682	ppb	96
8) 1,3-BUTADIENE	2.038	39	21075	1.1929422	ppb	# 72
9) BROMOMETHANE	2.300	94	19617	2.2591710	ppb	91
10) CHLOROETHANE	2.385	64	14772	1.8226038	ppb	94
11) VINYL BROMIDE	2.471	106	20499	1.8670355	ppb	95
12) TRICHLOROFLUOROMETHANE	2.477	101	26098	1.8069798	ppb	93
13) DICHLOROFLUOROMETHANE	2.513	67	41730	1.9100352	ppb	99
14) ETHYL ETHER	2.660	59	18462	1.9904153	ppb	95
15) ACROLEIN	3.019	56	4582	5.5104438	ppb	85
16) ETHANOL	2.751	45	14001	87.9903879	ppb	# 75
17) 1,1-DICHLOROETHENE	2.806	96	18129	1.9467724	ppb	98
18) 1,1,2-TRICHLOROTRIFLUO...	2.849	101	15438	1.8966367	ppb	95
19) ACETONE	3.184	43	44166	7.5093509	ppb	98
20) IODOMETHANE	2.910	142	193516	10.1809659	ppb	100
21) CARBON DISULFIDE	2.843	76	53492	1.7586669	ppb	99
22) ALLYL CHLORIDE	3.099	76	59898	10.2219467	ppb	92
23) METHYLENE CHLORIDE	3.166	84	22538	1.7976173	ppb	94
24) METHYL ACETATE	3.245	43	88999	10.2694680	ppb	# 96
25) ACRYLONITRILE	3.647	53	55754	9.7410268	ppb	99
26) n-HEXANE	3.294	56	10623	1.8441035	ppb	# 99
27) TRANS-1,2-DICHLOROETHENE	3.263	96	21486	1.7086337	ppb	96
28) METHYL TERT-BUTYL ETHER	3.306	73	61910	1.9529645	ppb	99
29) TERT-BUTYL ALCOHOL	3.336	59	18672	8.7970184	ppb	# 100
30) 1,1-DICHLOROETHANE	3.617	63	37322	1.9542881	ppb	100
31) VINYL ACETATE	3.727	43	234059	10.0194373	ppb	100
32) DI-ISOPROPYL ETHER	3.507	45	69720	1.7949653	ppb	99
33) ETHYL TERT-BUTYL ETHER	3.714	59	66011	2.0167338	ppb	98
34) 2,2-DICHLOROPROPANE	3.989	77	27068	1.7633448	ppb	97
35) CIS-1,2-DICHLOROETHENE	3.922	96	23246	1.7927724	ppb	97
36) 2-BUTANONE (MEK)	4.226	43	73043	9.8279808	ppb	98
37) BROMOCHLOROMETHANE	4.037	130	15446	1.9578102	ppb	97
38) TETRAHYDROFURAN	4.165	42	10561	1.6057234	ppb	# 92

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 10.D
 Acq On : 19 Aug 2020 10:45 pm
 Operator : 808
 Sample : STD VMS 2 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 09:01:08 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:00:01 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) CHLOROFORM	4.062	83	37789	1.8660451	ppb	98
40) CYCLOHEXANE	4.050	84	20775	1.6982370	ppb	97
41) 1,1,1-TRICHLOROETHANE	4.196	97	30365	1.9422354	ppb	97
42) CARBON TETRACHLORIDE	4.159	117	26991	1.8741318	ppb	99
43) 1,1-DICHLOROPROPENE	4.263	75	26828	1.9965943	ppb	99
44) 2,2,4-TRIMETHYLPENTANE	4.300	57	26994	1.9531952	ppb	96
45) n-Heptane	4.342	71	7243	1.8369181	ppb	# 91
46) BENZENE	4.409	78	84476	1.9854876	ppb	99
47) TERT-AMYL METHYL ETHER	4.434	73	62480	1.8803448	ppb	99
49) 1,2-DICHLOROETHANE	4.519	62	28574	1.9049496	ppb	# 90
50) T-AMYL ALCOHOL	4.525	59	18569	10.2006612	ppb	100
51) TRICHLOROETHENE	4.732	132	23839	2.0040210	ppb	97
52) METHYL CYCLOHEXANE	4.732	83	19563	1.8330170	ppb	99
53) TERT-AMYL ETHYL ETHER	4.824	59	50139	1.9826772	ppb	98
54) 1,2-DICHLOROPROPANE	5.049	62	16129	2.1288403	ppb	97
55) DIBROMOMETHANE	4.995	93	14058	1.8360139	ppb	95
56) BROMODICHLOROMETHANE	5.068	83	30128	1.9320158	ppb	96
57) 2-CHLOROETHYL VINYL ETHER	5.385	63	81353	10.2398245	ppb	99
58) CIS-1,3-DICHLOROPROPENE	5.446	75	35046	2.0195654	ppb	100
60) 4-METHYL-2-PENTANONE (...)	5.811	43	152761	10.4597985	ppb	99
62) TOLUENE	5.598	91	91976	2.0026873	ppb	99
63) TRANS-1,3-DICHLOROPROPENE	5.848	75	30505	1.9536681	ppb	98
64) 1,1,2-TRICHLOROETHANE	5.958	97	21213	2.0937498	ppb	95
65) TETRACHLOROETHENE	5.854	164	16802	1.9404247	ppb	97
66) 1,3-DICHLOROPROPANE	6.147	76	31957	1.9941029	ppb	100
67) 2-HEXANONE	6.354	58	58858	9.5951816	ppb	98
68) CHLORODIBROMOMETHANE	6.086	129	23008	1.9104920	ppb	96
69) 1,2-DIBROMOETHANE	6.263	107	21775	1.9417000	ppb	98
70) CHLOROBENZENE	6.604	112	57447	1.9846475	ppb	96
71) 1,1,1,2-TETRACHLOROETHANE	6.635	133	21649	2.0139971	ppb	# 100
72) ETHYLBENZENE	6.598	106	29258	2.0054190	ppb	96
73) M&P-XYLENE	6.695	106	70185	3.9678729	ppb	99
74) O-XYLENE	7.006	106	33643	1.9498262	ppb	97
77) STYRENE	7.037	104	57305	1.9974518	ppb	96
78) BROMOFORM	7.080	173	18409	2.0071504	ppb	98
79) ISOPROPYLBENZENE	7.220	105	79142	1.9398795	ppb	98
82) BROMOBENZENE	7.531	77	35647	1.9188914	ppb	100
83) 1,1,2,2-TETRACHLOROETHANE	7.573	83	29155	1.9534758	ppb	96
84) 1,2,3-TRICHLOROPROPANE	7.689	110	9223	2.1171929	ppb	95
85) TRANS-1,4-DICHLORO-2-B...	7.707	53	5878	1.3084449	ppb	95
86) N-PROPYLBENZENE	7.525	91	86452	2.0208103	ppb	99
87) 4-ETHYLTOLUENE	7.598	105	70624	1.9707878	ppb	99
88) 2-CHLOROTOLUENE	7.659	91	58572	2.0273306	ppb	99
89) 4-CHLOROTOLUENE	7.781	91	54373	1.9151767	ppb	99
90) 1,3,5-TRIMETHYLBENZENE	7.659	105	60808	2.0089842	ppb	98
91) TERT-BUTYLBENZENE	7.909	119	50334	1.9243784	ppb	98
92) 1,2,4-TRIMETHYLBENZENE	7.957	105	59789	1.9821933	ppb	97
93) SEC-BUTYLBENZENE	8.043	105	65050	1.9770742	ppb	99
94) 1,3-DICHLOROBENZENE	8.238	146	34871	1.9931155	ppb	99
95) P-ISOPROPYLTOLUENE	8.146	119	59128	2.0160647	ppb	99
96) DICYCLOPENTADIENE	8.152	66	69844	1.9692895	ppb	99
97) 1,4-DICHLOROBENZENE	8.299	146	35470	1.9534065	ppb	# 1
98) 1,2,3-TRIMETHYLBENZENE	8.305	105	48533	1.8750656	ppb	97
99) 1,2-DICHLOROBENZENE	8.640	146	33303	1.9730033	ppb	100

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 10.D
 Acq On : 19 Aug 2020 10:45 pm
 Operator : 808
 Sample : STD VMS 2 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS26

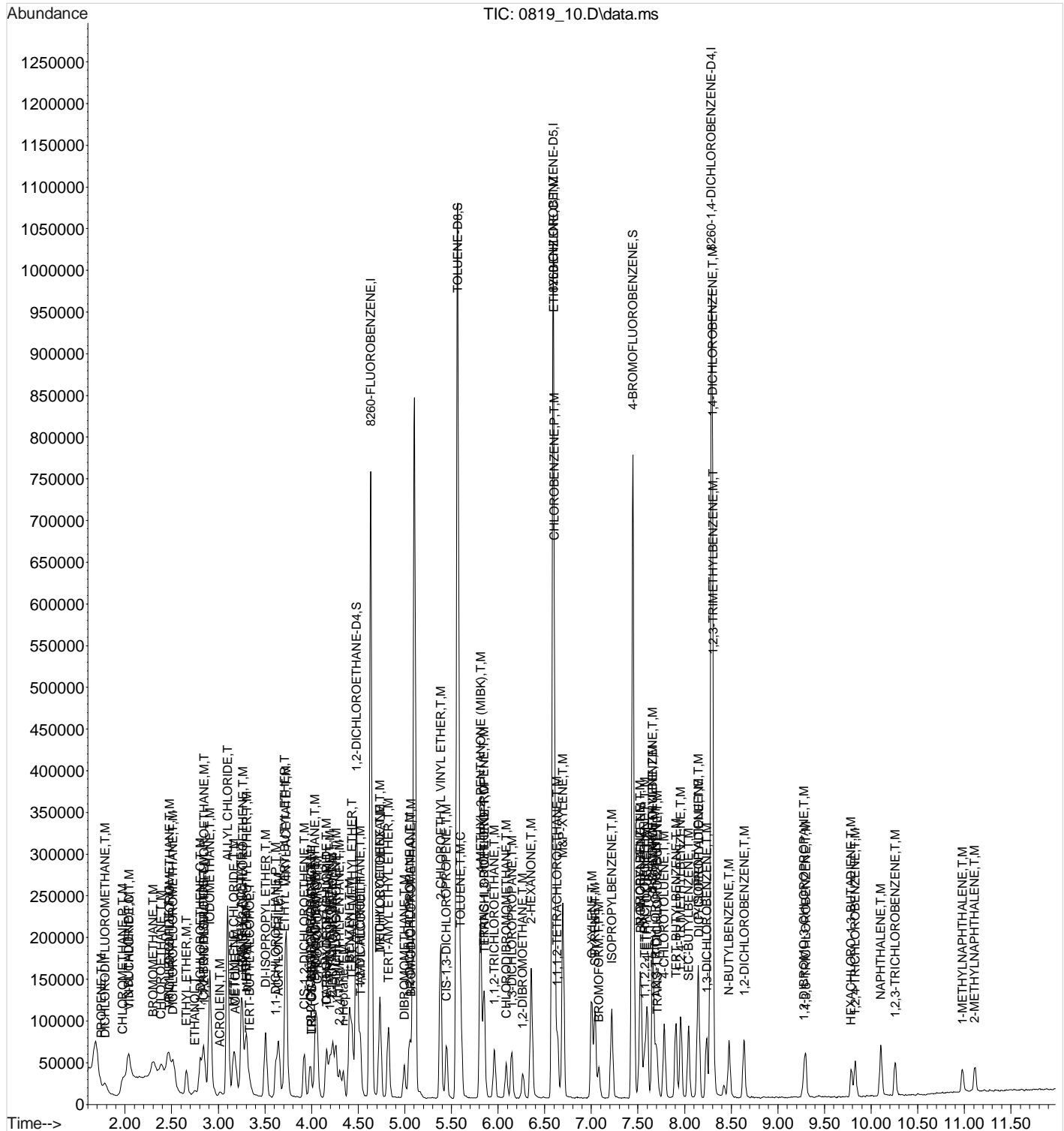
Quant Time: Aug 20 09:01:08 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:00:01 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
100) N-BUTYLBENZENE	8.476	91	42096	1.8969489	ppb		99
101) 1,2-DIBROMO-3-CHLOROPR...	9.280	157	7833	1.9696731	ppb		97
102) 1,3,5-TRICHLOROBENZENE	9.299	180	17138	2.0374872	ppb		99
103) 1,2,4-TRICHLOROBENZENE	9.829	180	15375	2.0541958	ppb		97
104) HEXACHLORO-1,3-BUTADIENE	9.786	225	6872	1.9449049	ppb		97
105) NAPHTHALENE	10.103	128	56256	1.8455151	ppb		97
106) 1,2,3-TRICHLOROBENZENE	10.256	180	14409	1.9832305	ppb		97
107) 1-METHYLNAPHTHALENE	10.981	142	17182	1.8640044	ppb		97
108) 2-METHYLNAPHTHALENE	11.109	142	16586	1.9071603	ppb	#	84

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

Data Path : C:\msdchem\1\data\081920\
Data File : 0819 10.D
Acq On : 19 Aug 2020 10:45 pm
Operator : 808
Sample : STD VMS 2 PPB 20H19610
Misc : soil surr/is 20G06381
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS26

Quant Time: Aug 20 09:01:08 2020
Quant Method : C:\msdchem\1\methods\V826H19T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 09:00:01 2020
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 11.D
 Acq On : 19 Aug 2020 11:05 pm
 Operator : 808
 Sample : MSTD VMS 5.0 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:45:37 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Fri Jul 03 13:50:19 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	667007	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	282421	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.287	152	285822	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.63
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.59
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-8.29
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.483	65	236960	15.5859783	ppb	0.00
Spiked Amount 16.000			Recovery	=	97.41%	
61) TOLUENE-D8	5.568	98	782082	19.0289266	ppb	0.00
Spiked Amount 16.000	Range 89	- 115	Recovery	=	118.93%#	
80) 4-BROMOFLUOROBENZENE	7.446	95	297914	20.0736401	ppb	0.00
Spiked Amount 16.000	Range 70	- 129	Recovery	=	125.46%	
Target Compounds						
					Qvalue	
4) PROPENE	1.745	41	23397	3.0969533	ppb	97
5) DICHLORODIFLUOROMETHANE	1.788	85	57537	3.4102469	ppb	100
6) CHLOROMETHANE	1.971	50	66998	3.3623410	ppb	99
7) VINYL CHLORIDE	2.044	62	56137	2.5715621	ppb	98
8) 1,3-BUTADIENE	2.032	39	40483	2.7597775	ppb	89
9) BROMOMETHANE	2.300	94	44119	2.5655630	ppb	97
10) CHLOROETHANE	2.379	64	34318	2.5145994	ppb	# 93
11) VINYL BROMIDE	2.465	106	45126	3.3182153	ppb	98
12) TRICHLOROFLUOROMETHANE	2.471	101	65956	2.3632032	ppb	# 98
13) DICHLOROFLUOROMETHANE	2.514	67	96115	2.7628913	ppb	99
14) ETHYL ETHER	2.660	59	44566	4.1572591	ppb	92
15) ACROLEIN	3.020	56	11896	11.8890246	ppb	99
16) ETHANOL	2.739	45	16096	641.5900660	ppb	# 95
17) 1,1-DICHLOROETHENE	2.806	96	44573	4.2620870	ppb	86
18) 1,1,2-TRICHLOROTRIFLUO...	2.843	101	38973	3.8087663	ppb	# 96
19) ACETONE	3.184	43	107592	25.2310870	ppb	99
20) IODOMETHANE	2.910	142	480779	21.0379277	ppb	92
21) CARBON DISULFIDE	2.843	76	130417	4.2256579	ppb	# 93
22) ALLYL CHLORIDE	3.099	76	143057	21.3378346	ppb	93
23) METHYLENE CHLORIDE	3.160	84	53880	4.3526253	ppb	87
24) METHYL ACETATE	3.245	43	241787	23.0792635	ppb	# 100
25) ACRYLONITRILE	3.647	53	139955	22.4352551	ppb	99
26) n-HEXANE	3.294	56	26544	3.6830731	ppb	# 92
27) TRANS-1,2-DICHLOROETHENE	3.257	96	52003	4.2191564	ppb	92
28) METHYL TERT-BUTYL ETHER	3.306	73	152001	4.4962750	ppb	88
29) TERT-BUTYL ALCOHOL	3.337	59	38991	24.8227401	ppb	# 100
30) 1,1-DICHLOROETHANE	3.617	63	93644	3.9547989	ppb	99
31) VINYL ACETATE	3.727	43	580840	25.3516088	ppb	99
32) DI-ISOPROPYL ETHER	3.507	45	173421	4.2894997	ppb	94
33) ETHYL TERT-BUTYL ETHER	3.715	59	161418	3.9365991	ppb	95
34) 2,2-DICHLOROPROPANE	3.989	77	67850	4.1284968	ppb	98
35) CIS-1,2-DICHLOROETHENE	3.922	96	58661	4.2685786	ppb	92
36) 2-BUTANONE (MEK)	4.227	43	184627	23.8815532	ppb	100
37) BROMOCHLOROMETHANE	4.038	130	38470	4.2126196	ppb	88
38) TETRAHYDROFURAN	4.166	42	24257	4.6822198	ppb	# 87
39) CHLOROFORM	4.062	83	94147	3.9414904	ppb	99
40) CYCLOHEXANE	4.050	84	52432	3.7793616	ppb	93

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 11.D
 Acq On : 19 Aug 2020 11:05 pm
 Operator : 808
 Sample : MSTD VMS 5.0 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:45:37 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Fri Jul 03 13:50:19 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-TRICHLOROETHANE	4.196	97	75514	3.8315683	ppb	95
42) CARBON TETRACHLORIDE	4.160	117	66239	3.7443706	ppb	96
43) 1,1-DICHLOROPROPENE	4.263	75	64130	4.2044384	ppb	97
44) 2,2,4-TRIMETHYLPENTANE	4.300	57	77379	3.4229579	ppb	95
45) n-Heptane	4.342	71	18339	4.4653752	ppb	# 91
46) BENZENE	4.410	78	204441	4.3814726	ppb	94
47) TERT-AMYL METHYL ETHER	4.434	73	158223	4.6082498	ppb	94
49) 1,2-DICHLOROETHANE	4.519	62	71217	3.5641833	ppb	# 95
50) T-AMYL ALCOHOL	4.519	59	43184	20.1590769	ppb	# 74
51) TRICHLOROETHENE	4.733	132	57632	4.3510914	ppb	98
52) METHYL CYCLOHEXANE	4.733	83	48678	3.7151456	ppb	90
53) TERT-AMYL ETHYL ETHER	4.824	59	124780	4.1524410	ppb	95
54) 1,2-DICHLOROPROPANE	5.050	62	38041	4.4774643	ppb	94
55) DIBROMOMETHANE	4.995	93	36134	4.4140750	ppb	93
56) BROMODICHLOROMETHANE	5.068	83	70064	4.1884094	ppb	98
57) 2-CHLOROETHYL VINYL ETHER	5.385	63	202476	24.5026128	ppb	98
58) CIS-1,3-DICHLOROPROPENE	5.446	75	86099	4.9198560	ppb	99
60) 4-METHYL-2-PENTANONE (...)	5.812	43	381045	23.7452741	ppb	98
62) TOLUENE	5.598	91	224077	4.8205420	ppb	99
63) TRANS-1,3-DICHLOROPROPENE	5.848	75	78246	4.9742406	ppb	# 97
64) 1,1,2-TRICHLOROETHANE	5.958	97	49162	5.1894486	ppb	95
65) TETRACHLOROETHENE	5.848	164	41018	4.3874247	ppb	99
66) 1,3-DICHLOROPROPANE	6.147	76	79723	5.0845955	ppb	99
67) 2-HEXANONE	6.354	58	155246	25.6307847	ppb	99
68) CHLORODIBROMOMETHANE	6.086	129	58717	5.0435406	ppb	99
69) 1,2-DIBROMOETHANE	6.263	107	53944	4.9232572	ppb	99
70) CHLOROBENZENE	6.604	112	141393	4.7389315	ppb	99
71) 1,1,1,2-TETRACHLOROETHANE	6.635	133	51793	4.4883127	ppb	# 100
72) ETHYLBENZENE	6.598	106	69133	4.3948978	ppb	91
73) M&P-XYLENE	6.696	106	173808	9.2257406	ppb	94
74) O-XYLENE	7.000	106	84859	4.6604531	ppb	92
77) STYRENE	7.037	104	143691	5.3703224	ppb	95
78) BROMOFORM	7.080	173	45623	5.2977472	ppb	97
79) ISOPROPYLBENZENE	7.220	105	192633	4.6619394	ppb	98
82) BROMOBENZENE	7.531	77	89237	4.7384961	ppb	97
83) 1,1,2,2-TETRACHLOROETHANE	7.574	83	72380	4.7411053	ppb	99
84) 1,2,3-TRICHLOROPROPANE	7.689	110	23273	5.0365949	ppb	97
85) TRANS-1,4-DICHLORO-2-B...	7.708	53	16103	3.4254782	ppb	# 84
86) N-PROPYLBENZENE	7.525	91	215885	4.7739488	ppb	98
87) 4-ETHYLTOLUENE	7.598	105	180765	4.7025951	ppb	98
88) 2-CHLOROTOLUENE	7.659	91	145883	4.5916297	ppb	# 93
89) 4-CHLOROTOLUENE	7.781	91	139636	4.8544773	ppb	97
90) 1,3,5-TRIMETHYLBENZENE	7.659	105	154549	4.7350849	ppb	96
91) TERT-BUTYLBENZENE	7.909	119	126285	4.6917566	ppb	97
92) 1,2,4-TRIMETHYLBENZENE	7.958	105	147888	4.6991752	ppb	100
93) SEC-BUTYLBENZENE	8.043	105	160203	4.6214805	ppb	100
94) 1,3-DICHLOROBENZENE	8.238	146	89027	4.9087183	ppb	100
95) P-ISOPROPYLTOLUENE	8.141	119	147394	4.6770711	ppb	99
96) DICYCLOPENTADIENE	8.147	66	175909	4.5773781	ppb	96
97) 1,4-DICHLOROBENZENE	8.299	146	88905	4.5339092	ppb	96
98) 1,2,3-TRIMETHYLBENZENE	8.305	105	123900	4.7847580	ppb	98
99) 1,2-DICHLOROBENZENE	8.634	146	83745	4.7608398	ppb	97
100) N-BUTYLBENZENE	8.476	91	109286	4.4996083	ppb	97
101) 1,2-DIBROMO-3-CHLOROPR...	9.274	157	20080	5.0922935	ppb	94

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 11.D
 Acq On : 19 Aug 2020 11:05 pm
 Operator : 808
 Sample : MSTD VMS 5.0 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:45:37 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Fri Jul 03 13:50:19 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) 1,3,5-TRICHLOROBENZENE	9.299	180	44935	5.1295867	ppb	93
103) 1,2,4-TRICHLOROBENZENE	9.829	180	39014	4.9954857	ppb	100
104) HEXACHLORO-1,3-BUTADIENE	9.787	225	18101	4.7211127	ppb	98
105) NAPHTHALENE	10.104	128	148528	5.0498281	ppb	99
106) 1,2,3-TRICHLOROBENZENE	10.256	180	35624	4.9364915	ppb	98
107) 1-METHYLNAPHTHALENE	10.975	142	43528	4.9818127	ppb	99
108) 2-METHYLNAPHTHALENE	11.116	142	42536	5.1760004	ppb	90

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

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 12.D
 Acq On : 19 Aug 2020 11:26 pm
 Operator : 808
 Sample : STD VMS 25 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:47:04 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:45:51 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	657098	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	297772	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.287	152	292377	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.63
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.59
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-8.29
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.483	65	253224	20.6102695	ppb	0.00
Spiked Amount 16.000			Recovery	= 128.81%		
61) TOLUENE-D8	5.568	98	820135	18.8973012	ppb	0.00
Spiked Amount 16.000	Range 89 - 115		Recovery	= 118.11%#		
80) 4-BROMOFLUOROBENZENE	7.445	95	315165	19.0639899	ppb	0.00
Spiked Amount 16.000	Range 70 - 129		Recovery	= 119.15%		
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.000	TIC	27003920m	30.5662619	ppm	
3) LRH (C5-C8)	4.000	TIC	28268584m	0.7501822	ppm	
4) PROPENE	1.751	41	147963	32.0969085	ppb	99
5) DICHLORODIFLUOROMETHANE	1.788	85	308411	27.2052610	ppb	100
6) CHLOROMETHANE	1.977	50	296963	22.4962823	ppb	99
7) VINYL CHLORIDE	2.044	62	297253	26.8749272	ppb	100
8) 1,3-BUTADIENE	2.038	39	229558	28.7799473	ppb	92
9) BROMOMETHANE	2.300	94	222594	25.6069613	ppb	96
10) CHLOROETHANE	2.385	64	166280	24.5916855	ppb	97
11) VINYL BROMIDE	2.465	106	244727	27.5248714	ppb	94
12) TRICHLOROFLUOROMETHANE	2.471	101	357166	27.4843868	ppb	98
13) DICHLOROFLUOROMETHANE	2.514	67	497607	26.2763817	ppb	100
14) ETHYL ETHER	2.660	59	222044	25.2874849	ppb	98
15) ACROLEIN	3.019	56	64769	138.1676883	ppb	99
17) 1,1-DICHLOROETHENE	2.806	96	224792	25.5964205	ppb	95
18) 1,1,2-TRICHLOROTRIFLUO...	2.849	101	218905	28.5076944	ppb	98
19) ACETONE	3.184	43	530473	125.1190847	ppb	100
20) IODOMETHANE	2.910	142	2453647	129.5110568	ppb	100
21) CARBON DISULFIDE	2.843	76	677364	26.3607739	ppb	99
22) ALLYL CHLORIDE	3.099	76	737721	130.8649332	ppb	99
23) METHYLENE CHLORIDE	3.166	84	262182	24.6970759	ppb	99
24) METHYL ACETATE	3.245	43	1167762	122.5636390	ppb	# 98
25) ACRYLONITRILE	3.647	53	694378	125.9063950	ppb	99
26) n-HEXANE	3.294	56	141127	26.9844762	ppb	# 100
27) TRANS-1,2-DICHLOROETHENE	3.257	96	262262	25.5963017	ppb	97
28) METHYL TERT-BUTYL ETHER	3.306	73	753808	25.1700772	ppb	96
29) TERT-BUTYL ALCOHOL	3.337	59	240755	156.6935777	ppb	# 100
30) 1,1-DICHLOROETHANE	3.617	63	472858	25.6283730	ppb	100
31) VINYL ACETATE	3.727	43	2960715	129.3541428	ppb	100
32) DI-ISOPROPYL ETHER	3.507	45	868538	25.4189372	ppb	99
33) ETHYL TERT-BUTYL ETHER	3.714	59	811157	25.5048756	ppb	98
34) 2,2-DICHLOROPROPANE	3.989	77	328592	24.5797456	ppb	100
35) CIS-1,2-DICHLOROETHENE	3.922	96	296014	25.6113835	ppb	100
36) 2-BUTANONE (MEK)	4.227	43	930012	127.8302371	ppb	100
37) BROMOCHLOROMETHANE	4.038	130	196719	25.9534067	ppb	96
38) TETRAHYDROFURAN	4.160	42	115425	24.1508848	ppb	95
39) CHLOROFORM	4.062	83	478028	25.7701592	ppb	100

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 12.D
 Acq On : 19 Aug 2020 11:26 pm
 Operator : 808
 Sample : STD VMS 25 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:47:04 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:45:51 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) CYCLOHEXANE	4.050	84	274417	26.5634720	ppb	97
41) 1,1,1-TRICHLOROETHANE	4.196	97	398740	26.7998634	ppb	98
42) CARBON TETRACHLORIDE	4.160	117	346753	26.5690919	ppb	99
43) 1,1-DICHLOROPROPENE	4.263	75	338007	26.7506725	ppb	98
44) 2,2,4-TRIMETHYLPENTANE	4.300	57	385390	25.2782834	ppb	97
45) n-Heptane	4.342	71	100128	27.7108688	ppb	# 62
46) BENZENE	4.409	78	1046269	25.9744052	ppb	98
47) TERT-AMYL METHYL ETHER	4.434	73	784532	25.1658323	ppb	100
49) 1,2-DICHLOROETHANE	4.519	62	354712	25.2791494	ppb	99
50) T-AMYL ALCOHOL	4.519	59	214800	126.2268269	ppb	90
51) TRICHLOROETHENE	4.733	132	301380	26.5412265	ppb	98
52) METHYL CYCLOHEXANE	4.733	83	259356	27.0416896	ppb	100
53) TERT-AMYL ETHYL ETHER	4.824	59	625208	25.4302012	ppb	100
54) 1,2-DICHLOROPROPANE	5.050	62	191413	25.5381690	ppb	97
55) DIBROMOMETHANE	4.995	93	180249	25.3178647	ppb	98
56) BROMODICHLOROMETHANE	5.068	83	364524	26.4059289	ppb	94
57) 2-CHLOROETHYL VINYL ETHER	5.385	63	1037383	130.0187029	ppb	100
58) CIS-1,3-DICHLOROPROPENE	5.446	75	444154	26.1821750	ppb	99
60) 4-METHYL-2-PENTANONE (...)	5.812	43	1888400	117.5089273	ppb	100
62) TOLUENE	5.598	91	1157993	24.5070923	ppb	100
63) TRANS-1,3-DICHLOROPROPENE	5.848	75	406820	24.6560376	ppb	98
64) 1,1,2-TRICHLOROETHANE	5.958	97	247854	23.9083455	ppb	98
65) TETRACHLOROETHENE	5.848	164	220303	25.4700069	ppb	99
66) 1,3-DICHLOROPROPANE	6.147	76	408176	24.2799040	ppb	99
67) 2-HEXANONE	6.354	58	770598	117.6956998	ppb	99
68) CHLORODIBROMOMETHANE	6.086	129	304588	24.5998276	ppb	100
69) 1,2-DIBROMOETHANE	6.263	107	275275	24.1995203	ppb	99
70) CHLOROBENZENE	6.604	112	728935	24.4480389	ppb	98
71) 1,1,1,2-TETRACHLOROETHANE	6.635	133	264604	24.2274927	ppb	# 100
72) ETHYLBENZENE	6.598	106	376545	25.8294177	ppb	93
73) M&P-XYLENE	6.696	106	911113	49.7182243	ppb	99
74) O-XYLENE	7.000	106	439763	24.5755876	ppb	100
77) STYRENE	7.037	104	748127	24.6904437	ppb	99
78) BROMOFORM	7.080	173	236491	24.5818130	ppb	98
79) ISOPROPYLBENZENE	7.220	105	1022437	25.1703354	ppb	99
82) BROMOBENZENE	7.531	77	465761	25.5117712	ppb	100
83) 1,1,2,2-TETRACHLOROETHANE	7.574	83	368719	24.9000025	ppb	100
84) 1,2,3-TRICHLOROPROPANE	7.689	110	111530	23.4240391	ppb	88
85) TRANS-1,4-DICHLORO-2-B...	7.708	53	91786	27.8607051	ppb	96
86) N-PROPYLBENZENE	7.519	91	1127880	25.5365886	ppb	99
87) 4-ETHYLTOLUENE	7.598	105	949790	25.6824056	ppb	100
88) 2-CHLOROTOLUENE	7.659	91	755446	25.3116929	ppb	99
89) 4-CHLOROTOLUENE	7.781	91	735198	25.7353080	ppb	100
90) 1,3,5-TRIMETHYLBENZENE	7.659	105	794272	25.1203396	ppb	98
91) TERT-BUTYLBENZENE	7.909	119	664582	25.7228603	ppb	99
92) 1,2,4-TRIMETHYLBENZENE	7.958	105	784740	25.9367351	ppb	96
93) SEC-BUTYLBENZENE	8.043	105	848234	25.8801914	ppb	99
94) 1,3-DICHLOROBENZENE	8.238	146	457968	25.1440856	ppb	99
95) P-ISOPROPYLTOLUENE	8.147	119	774809	25.6943304	ppb	99
96) DICYCLOPENTADIENE	8.153	66	916842	25.4758623	ppb	99
97) 1,4-DICHLOROBENZENE	8.299	146	462574	25.4318226	ppb	# 1
98) 1,2,3-TRIMETHYLBENZENE	8.305	105	633594	24.9955215	ppb	100
99) 1,2-DICHLOROBENZENE	8.640	146	444891	25.9667254	ppb	98
100) N-BUTYLBENZENE	8.476	91	590507	26.4108861	ppb	99

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 12.D
 Acq On : 19 Aug 2020 11:26 pm
 Operator : 808
 Sample : STD VMS 25 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:47:04 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:45:51 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 1,2-DIBROMO-3-CHLOROPR...	9.280	157	106684	25.9691679	ppb	95
102) 1,3,5-TRICHLOROBENZENE	9.299	180	233534	25.4031647	ppb	97
103) 1,2,4-TRICHLOROBENZENE	9.829	180	217525	27.2528013	ppb	99
104) HEXACHLORO-1,3-BUTADIENE	9.786	225	95975	25.9165988	ppb	99
105) NAPHTHALENE	10.103	128	806242	26.5325834	ppb	100
106) 1,2,3-TRICHLOROBENZENE	10.256	180	198946	27.2970039	ppb	99
107) 1-METHYLNAPHTHALENE	10.975	142	258949	29.0782307	ppb	98
108) 2-METHYLNAPHTHALENE	11.109	142	232059	26.6663897	ppb	96

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

Quant Time: Aug 20 08:47:04 2020
Quant Method : C:\msdchem\1\methods\V826H19T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 08:45:51 2020
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 13.D
 Acq On : 19 Aug 2020 11:46 pm
 Operator : 808
 Sample : STD VMS 75 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:48:52 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:47:37 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	666438	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	290665	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.287	152	297573	16.0000000	ppb	# 0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.63
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.59
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-8.29
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.482	65	301825	23.8576975	ppb	0.00
Spiked Amount 16.000			Recovery	= 149.11%		
61) TOLUENE-D8	5.568	98	862583	20.9385678	ppb	0.00
Spiked Amount 16.000	Range 89	- 115	Recovery	= 130.87%#		
80) 4-BROMOFLUOROBENZENE	7.445	95	331950	21.0631345	ppb	0.00
Spiked Amount 16.000	Range 70	- 129	Recovery	= 131.64%#		
Target Compounds						
					Qvalue	
2) TPH (GC/MS) LOW FRACTION	4.000	TIC	96885491m	53.3101190	ppm	
3) LRH (C5-C8)	4.000	TIC	98514639m	2.2909875	ppm	
4) PROPENE	1.751	41	591385	110.7664364	ppb	99
5) DICHLORODIFLUOROMETHANE	1.788	85	1077130	89.7257888	ppb	99
6) CHLOROMETHANE	1.971	50	954271	75.0344870	ppb	99
7) VINYL CHLORIDE	2.044	62	962454	82.6958907	ppb	100
8) 1,3-BUTADIENE	2.032	39	776761	89.2698899	ppb	93
9) BROMOMETHANE	2.294	94	629674	70.5651857	ppb	96
10) CHLOROETHANE	2.379	64	477058	70.1376147	ppb	97
11) VINYL BROMIDE	2.458	106	753579	79.5513582	ppb	97
12) TRICHLOROFLUOROMETHANE	2.471	101	1217615	88.0108471	ppb	98
13) DICHLOROFLUOROMETHANE	2.513	67	1527470	77.5487489	ppb	99
14) ETHYL ETHER	2.654	59	665597	74.3119115	ppb	98
15) ACROLEIN	3.013	56	256425	512.3626932	ppb	98
17) 1,1-DICHLOROETHENE	2.806	96	714700	79.2944464	ppb	95
18) 1,1,2-TRICHLOROTRIFLUO...	2.843	101	744755	89.3601728	ppb	97
19) ACETONE	3.184	43	1652741	383.9301651	ppb	98
20) IODOMETHANE	2.910	142	7273446	371.8251240	ppb	99
21) CARBON DISULFIDE	2.836	76	2093908	78.2172386	ppb	99
22) ALLYL CHLORIDE	3.099	76	2211680	377.9662875	ppb	96
23) METHYLENE CHLORIDE	3.160	84	786824	73.5241180	ppb	99
24) METHYL ACETATE	3.245	43	3486513	364.3528248	ppb	# 97
25) ACRYLONITRILE	3.641	53	2087034	371.7748712	ppb	99
26) n-HEXANE	3.288	56	466529	84.5958878	ppb	# 99
27) TRANS-1,2-DICHLOROETHENE	3.257	96	792099	75.3256592	ppb	97
28) METHYL TERT-BUTYL ETHER	3.306	73	2295720	75.3248631	ppb	92
29) TERT-BUTYL ALCOHOL	3.336	59	731121	416.3883746	ppb	# 100
30) 1,1-DICHLOROETHANE	3.617	63	1428840	75.4085032	ppb	100
31) VINYL ACETATE	3.727	43	8536537	361.4406973	ppb	99
32) DI-ISOPROPYL ETHER	3.507	45	2649429	75.8171684	ppb	99
33) ETHYL TERT-BUTYL ETHER	3.714	59	2445439	75.0554468	ppb	98
34) 2,2-DICHLOROPROPANE	3.989	77	1000342	74.4054941	ppb	100
35) CIS-1,2-DICHLOROETHENE	3.922	96	897656	75.6524356	ppb	100
36) 2-BUTANONE (MEK)	4.226	43	2778902	372.3914174	ppb	99
37) BROMOCHLOROMETHANE	4.037	130	593676	75.7817671	ppb	97
38) TETRAHYDROFURAN	4.159	42	345017	72.4073602	ppb	94
39) CHLOROFORM	4.062	83	1448906	74.3445157	ppb	100

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 13.D
 Acq On : 19 Aug 2020 11:46 pm
 Operator : 808
 Sample : STD VMS 75 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:48:52 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:47:37 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) CYCLOHEXANE	4.050	84	953836	88.2766373	ppb	98
41) 1,1,1-TRICHLOROETHANE	4.196	97	1282582	82.0426536	ppb	97
42) CARBON TETRACHLORIDE	4.159	117	1130698	82.8235843	ppb	99
43) 1,1-DICHLOROPROPENE	4.263	75	1074959	81.0448290	ppb	98
44) 2,2,4-TRIMETHYLPENTANE	4.306	57	1187943	76.4016426	ppb	97
45) n-Heptane	4.342	71	329663	85.3306453	ppb	# 65
46) BENZENE	4.409	78	3171097	76.1377452	ppb	98
47) TERT-AMYL METHYL ETHER	4.434	73	2368520	74.6637962	ppb	100
49) 1,2-DICHLOROETHANE	4.519	62	1076003	75.1886926	ppb	99
50) T-AMYL ALCOHOL	4.519	59	659998	380.5435769	ppb	87
51) TRICHLOROETHENE	4.732	132	931190	78.4387224	ppb	99
52) METHYL CYCLOHEXANE	4.732	83	881219	87.0382972	ppb	100
53) TERT-AMYL ETHYL ETHER	4.824	59	1906899	75.8232956	ppb	99
54) 1,2-DICHLOROPROPANE	5.043	62	588691	76.6172600	ppb	98
55) DIBROMOMETHANE	4.989	93	551481	75.8932165	ppb	99
56) BROMODICHLOROMETHANE	5.068	83	1119994	77.8069165	ppb	93
57) 2-CHLOROETHYL VINYL ETHER	5.385	63	3135010	379.7904168	ppb	100
58) CIS-1,3-DICHLOROPROPENE	5.446	75	1368313	77.6925286	ppb	100
60) 4-METHYL-2-PENTANONE (...)	5.811	43	5557487	365.2235062	ppb	99
62) TOLUENE	5.598	91	3516617	77.0024646	ppb	99
63) TRANS-1,3-DICHLOROPROPENE	5.848	75	1262857	78.9521979	ppb	98
64) 1,1,2-TRICHLOROETHANE	5.958	97	748854	75.6534774	ppb	97
65) TETRACHLOROETHENE	5.848	164	684076	80.2676898	ppb	99
66) 1,3-DICHLOROPROPANE	6.147	76	1242736	76.8368670	ppb	99
67) 2-HEXANONE	6.354	58	2278551	367.2489112	ppb	98
68) CHLORODIBROMOMETHANE	6.086	129	933149	77.8307517	ppb	99
69) 1,2-DIBROMOETHANE	6.263	107	849027	77.7072861	ppb	99
70) CHLOROBENZENE	6.604	112	2225017	77.3037581	ppb	98
71) 1,1,1,2-TETRACHLOROETHANE	6.635	133	825492	78.6463081	ppb	# 100
72) ETHYLBENZENE	6.598	106	1146490	79.2526858	ppb	93
73) M&P-XYLENE	6.695	106	2744129	153.8382997	ppb	99
74) O-XYLENE	7.000	106	1365321	78.8339424	ppb	99
77) STYRENE	7.037	104	2285398	77.7505834	ppb	98
78) BROMOFORM	7.080	173	738758	79.3305032	ppb	97
79) ISOPROPYLBENZENE	7.220	105	3156292	79.3311477	ppb	99
82) BROMOBENZENE	7.531	77	1423578	75.8378213	ppb	100
83) 1,1,2,2-TETRACHLOROETHANE	7.573	83	1110312	73.8189777	ppb	100
84) 1,2,3-TRICHLOROPROPANE	7.689	110	342712	73.0227306	ppb	89
85) TRANS-1,4-DICHLORO-2-B...	7.707	53	299127	84.3835923	ppb	95
86) N-PROPYLBENZENE	7.518	91	3467365	76.3155977	ppb	99
87) 4-ETHYLTOLUENE	7.598	105	2890831	75.7693004	ppb	99
88) 2-CHLOROTOLUENE	7.659	91	2285832	74.7847129	ppb	99
89) 4-CHLOROTOLUENE	7.781	91	2257103	76.5042948	ppb	99
90) 1,3,5-TRIMETHYLBENZENE	7.659	105	2409360	74.6902015	ppb	97
91) TERT-BUTYLBENZENE	7.909	119	2046402	76.7145226	ppb	100
92) 1,2,4-TRIMETHYLBENZENE	7.957	105	2409912	76.8208809	ppb	97
93) SEC-BUTYLBENZENE	8.043	105	2640458	77.7861043	ppb	99
94) 1,3-DICHLOROBENZENE	8.238	146	1404037	75.5230006	ppb	100
95) P-ISOPROPYLTOLUENE	8.146	119	2391263	76.8475962	ppb	99
96) DICYCLOPENTADIENE	8.153	66	2784305	75.2986413	ppb	99
97) 1,4-DICHLOROBENZENE	8.299	146	1426387	76.3921374	ppb	# 1
98) 1,2,3-TRIMETHYLBENZENE	8.305	105	1923248	74.5546987	ppb	100
99) 1,2-DICHLOROBENZENE	8.634	146	1379251	77.5960882	ppb	98
100) N-BUTYLBENZENE	8.476	91	1847782	78.9720208	ppb	99

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 13.D
 Acq On : 19 Aug 2020 11:46 pm
 Operator : 808
 Sample : STD VMS 75 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:48:52 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:47:37 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
101) 1,2-DIBROMO-3-CHLOROPR...	9.274	157	331204	77.7081304	ppb		95
102) 1,3,5-TRICHLOROBENZENE	9.299	180	731461	77.5516000	ppb		99
103) 1,2,4-TRICHLOROBENZENE	9.829	180	670746	79.0078370	ppb		99
104) HEXACHLORO-1,3-BUTADIENE	9.786	225	298464	77.7628450	ppb		99
105) NAPHTHALENE	10.103	128	2517904	78.9934459	ppb		100
106) 1,2,3-TRICHLOROBENZENE	10.256	180	617658	79.6105673	ppb		99
107) 1-METHYLNAPHTHALENE	10.975	142	825485	84.2093157	ppb		97
108) 2-METHYLNAPHTHALENE	11.109	142	721557	78.8402551	ppb		97

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

Quant Time: Aug 20 08:48:52 2020
Quant Method : C:\msdchem\1\methods\V826H19T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 08:47:37 2020
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 14.D
 Acq On : 20 Aug 2020 12:07 am
 Operator : 808
 Sample : STD VMS 100 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:50:13 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:49:00 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	678663	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	298044	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.287	152	304849	16.0000000	ppb	# 0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.63
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.59
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-8.29
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.482	65	333058	24.7304930	ppb	0.00
Spiked Amount 16.000			Recovery	= 154.57%		
61) TOLUENE-D8	5.568	98	924273	21.9019304	ppb	0.00
Spiked Amount 16.000	Range 89	- 115	Recovery	= 136.89%#		
80) 4-BROMOFLUOROBENZENE	7.445	95	356420	22.0338174	ppb	0.00
Spiked Amount 16.000	Range 70	- 129	Recovery	= 137.71%#		
Target Compounds						
					Qvalue	
2) TPH (GC/MS) LOW FRACTION	4.000	TIC	126986765m	44.1201982	ppm	
3) LRH (C5-C8)	4.000	TIC	129200375m	3.7162213	ppm	
4) PROPENE	1.751	41	753472	119.5752790	ppb	99
5) DICHLORODIFLUOROMETHANE	1.788	85	1386726	106.4665455	ppb	99
6) CHLOROMETHANE	1.977	50	1286555	99.3245410	ppb	99
7) VINYL CHLORIDE	2.044	62	1290498	105.2835856	ppb	100
8) 1,3-BUTADIENE	2.032	39	1030744	109.3876899	ppb	92
9) BROMOMETHANE	2.294	94	802001	90.0328030	ppb	97
10) CHLOROETHANE	2.379	64	657282	96.9896494	ppb	97
11) VINYL BROMIDE	2.465	106	972574	98.8211032	ppb	96
12) TRICHLOROFLUOROMETHANE	2.471	101	1548000	103.8696135	ppb	97
13) DICHLOROFLUOROMETHANE	2.513	67	1941712	95.7195320	ppb	99
14) ETHYL ETHER	2.654	59	870565	95.7379318	ppb	98
15) ACROLEIN	3.013	56	394139	689.1924275	ppb	97
16) ETHANOL	2.751	45	838531	4578.2568730	ppb	# 99
17) 1,1-DICHLOROETHENE	2.806	96	936734	100.1451300	ppb	96
18) 1,1,2-TRICHLOROTRIFLUO...	2.843	101	965892	106.9782156	ppb	98
19) ACETONE	3.184	43	2138924	478.3673754	ppb	98
20) IODOMETHANE	2.910	142	9512826	478.8957753	ppb	99
21) CARBON DISULFIDE	2.836	76	2764863	99.9903645	ppb	99
22) ALLYL CHLORIDE	3.099	76	2872091	480.7186295	ppb	96
23) METHYLENE CHLORIDE	3.160	84	1027396	94.8972885	ppb	98
24) METHYL ACETATE	3.245	43	4653114	482.0698038	ppb	# 98
25) ACRYLONITRILE	3.641	53	2749755	482.3884526	ppb	99
26) n-HEXANE	3.288	56	615084	105.0443602	ppb	# 99
27) TRANS-1,2-DICHLOROETHENE	3.257	96	1047456	97.6734914	ppb	98
28) METHYL TERT-BUTYL ETHER	3.306	73	3004208	96.6559099	ppb	92
29) TERT-BUTYL ALCOHOL	3.336	59	956712	516.0662747	ppb	# 100
30) 1,1-DICHLOROETHANE	3.617	63	1879085	97.2077631	ppb	100
31) VINYL ACETATE	3.727	43	11056746	465.3229411	ppb	99
32) DI-ISOPROPYL ETHER	3.507	45	3470814	97.1801927	ppb	99
33) ETHYL TERT-BUTYL ETHER	3.714	59	3172242	95.5851137	ppb	98
34) 2,2-DICHLOROPROPANE	3.989	77	1249524	91.5072947	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.922	96	1181503	97.4980383	ppb	99
36) 2-BUTANONE (MEK)	4.226	43	3653735	481.9225436	ppb	98
37) BROMOCHLOROMETHANE	4.037	130	779098	97.3209983	ppb	98
38) TETRAHYDROFURAN	4.159	42	457254	95.3319937	ppb	94

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 14.D
 Acq On : 20 Aug 2020 12:07 am
 Operator : 808
 Sample : STD VMS 100 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:50:13 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:49:00 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) CHLOROFORM	4.062	83	1902644	96.5212198	ppb	99
40) CYCLOHEXANE	4.050	84	1232587	105.7782286	ppb	98
41) 1,1,1-TRICHLOROETHANE	4.196	97	1679758	102.3108166	ppb	97
42) CARBON TETRACHLORIDE	4.159	117	1462200	101.6424919	ppb	99
43) 1,1-DICHLOROPROPENE	4.263	75	1401665	101.0577172	ppb	98
44) 2,2,4-TRIMETHYLPENTANE	4.306	57	1506634	94.5634659	ppb	96
45) n-Heptane	4.342	71	442029	107.4224859	ppb	# 67
46) BENZENE	4.409	78	4160275	97.5949989	ppb	98
47) TERT-AMYL METHYL ETHER	4.434	73	3066666	95.0724081	ppb	100
49) 1,2-DICHLOROETHANE	4.519	62	1415363	97.0394682	ppb	99
50) T-AMYL ALCOHOL	4.519	59	872655	491.6716339	ppb	86
51) TRICHLOROETHENE	4.732	132	1222925	99.6346516	ppb	99
52) METHYL CYCLOHEXANE	4.732	83	1143477	105.2745870	ppb	100
53) TERT-AMYL ETHYL ETHER	4.824	59	2514362	97.8187542	ppb	100
54) 1,2-DICHLOROPROPANE	5.049	62	766359	97.2448467	ppb	98
55) DIBROMOMETHANE	4.995	93	729740	98.2257754	ppb	99
56) BROMODICHLOROMETHANE	5.068	83	1469624	99.0215993	ppb	94
57) 2-CHLOROETHYL VINYL ETHER	5.385	63	4071720	482.3287977	ppb	100
58) CIS-1,3-DICHLOROPROPENE	5.446	75	1802852	99.3329188	ppb	100
60) 4-METHYL-2-PENTANONE (...)	5.811	43	7216137	466.5390494	ppb	99
62) TOLUENE	5.598	91	4616472	97.7133859	ppb	99
63) TRANS-1,3-DICHLOROPROPENE	5.848	75	1646291	98.6430996	ppb	98
64) 1,1,2-TRICHLOROETHANE	5.958	97	986374	96.9005410	ppb	97
65) TETRACHLOROETHENE	5.848	164	904626	101.1503399	ppb	99
66) 1,3-DICHLOROPROPANE	6.147	76	1649459	98.6537341	ppb	99
67) 2-HEXANONE	6.354	58	2998843	474.6466628	ppb	97
68) CHLORODIBROMOMETHANE	6.086	129	1232798	99.0318022	ppb	99
69) 1,2-DIBROMOETHANE	6.263	107	1127516	99.4445303	ppb	100
70) CHLOROBENZENE	6.604	112	2930309	98.2808608	ppb	98
71) 1,1,1,2-TETRACHLOROETHANE	6.634	133	1086196	99.3126001	ppb	# 100
72) ETHYLBENZENE	6.598	106	1503548	99.4813013	ppb	93
73) M&P-XYLENE	6.695	106	3591608	194.7029828	ppb	98
74) O-XYLENE	7.006	106	1781030	98.6107228	ppb	99
77) STYRENE	7.037	104	3024239	99.1273051	ppb	98
78) BROMOFORM	7.080	173	960950	98.7351645	ppb	98
79) ISOPROPYLBENZENE	7.220	105	4102015	98.6496701	ppb	99
82) BROMOBENZENE	7.531	77	1878315	97.3122688	ppb	99
83) 1,1,2,2-TETRACHLOROETHANE	7.573	83	1455046	94.9279441	ppb	99
84) 1,2,3-TRICHLOROPROPANE	7.689	110	451398	94.7175653	ppb	88
85) TRANS-1,4-DICHLORO-2-B...	7.707	53	397014	104.9475433	ppb	96
86) N-PROPYLBENZENE	7.525	91	4532735	96.8168299	ppb	99
87) 4-ETHYLTOLUENE	7.598	105	3750617	95.6312145	ppb	99
88) 2-CHLOROTOLUENE	7.659	91	2999978	95.8983393	ppb	99
89) 4-CHLOROTOLUENE	7.781	91	2980721	97.9649207	ppb	99
90) 1,3,5-TRIMETHYLBENZENE	7.659	105	3130519	94.8605006	ppb	97
91) TERT-BUTYLBENZENE	7.909	119	2646393	96.1065308	ppb	100
92) 1,2,4-TRIMETHYLBENZENE	7.957	105	3149687	97.2195778	ppb	98
93) SEC-BUTYLBENZENE	8.043	105	3423528	97.2435224	ppb	99
94) 1,3-DICHLOROBENZENE	8.238	146	1860883	97.4810454	ppb	100
95) P-ISOPROPYLTOLUENE	8.146	119	3128462	97.3399038	ppb	99
96) DICYCLOPENTADIENE	8.152	66	3585938	94.5378678	ppb	100
97) 1,4-DICHLOROBENZENE	8.305	146	1881623	97.7628445	ppb	# 1
98) 1,2,3-TRIMETHYLBENZENE	8.305	105	2513112	95.2841565	ppb	100
99) 1,2-DICHLOROBENZENE	8.634	146	1812035	98.3760942	ppb	98

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 14.D
 Acq On : 20 Aug 2020 12:07 am
 Operator : 808
 Sample : STD VMS 100 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:50:13 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:49:00 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
100) N-BUTYLBENZENE	8.476	91	2432217	99.7088457	ppb		99
101) 1,2-DIBROMO-3-CHLOROPR...	9.274	157	440209	99.6190816	ppb		94
102) 1,3,5-TRICHLOROBENZENE	9.299	180	951802	97.3996897	ppb		98
103) 1,2,4-TRICHLOROBENZENE	9.829	180	868884	98.1555369	ppb		99
104) HEXACHLORO-1,3-BUTADIENE	9.786	225	392367	98.5782372	ppb		99
105) NAPHTHALENE	10.103	128	3269805	98.3879608	ppb		99
106) 1,2,3-TRICHLOROBENZENE	10.256	180	796354	98.1811713	ppb		100
107) 1-METHYLNAPHTHALENE	10.975	142	1098920	105.1245455	ppb		98
108) 2-METHYLNAPHTHALENE	11.109	142	976603	102.4128080	ppb		96

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

Quant Time: Aug 20 08:50:13 2020
Quant Method : C:\msdchem\1\methods\V826H19T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 08:49:00 2020
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 15.D
 Acq On : 20 Aug 2020 12:27 am
 Operator : 808
 Sample : STD VMS 200 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 15 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:51:38 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:50:21 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	696352	16.0000000	ppb	# 0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	301771	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.293	152	311086	16.0000000	ppb	# 0.00
109) AP9-FLUOROBENZENE	0.000	96	0m	16.0000000	ppb	-4.63
123) AP9-CHLOROBENZENE-D5	0.000	82	0m	16.0000000	ppb	-6.59
127) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	16.0000000	ppb	-8.29
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.483	65	309434	21.7187928	ppb	0.00
Spiked Amount 16.000			Recovery	= 135.74%		
61) TOLUENE-D8	5.568	98	978983	22.9374122	ppb	0.00
Spiked Amount 16.000	Range 89	- 115	Recovery	= 143.36%#		
80) 4-BROMOFLUOROBENZENE	7.445	95	380271	23.2090255	ppb	0.00
Spiked Amount 16.000	Range 70	- 129	Recovery	= 145.06%#		
Target Compounds						
					Qvalue	
2) TPH (GC/MS) LOW FRACTION	4.000	TIC	244530706m	82.8014120	ppm	
3) LRH (C5-C8)	4.000	TIC	250993494m	4.6161510	ppm	
4) PROPENE	1.745	41	525299	77.4562208	ppb	99
5) DICHLORODIFLUOROMETHANE	1.782	85	2895724	213.2260199	ppb	99
6) CHLOROMETHANE	1.971	50	2543325	191.6855634	ppb	99
7) VINYL CHLORIDE	2.038	62	2558962	200.8137703	ppb	100
8) 1,3-BUTADIENE	2.032	39	1550474	156.6868971	ppb	92
9) BROMOMETHANE	2.288	94	1397935	156.8545216	ppb	97
10) CHLOROETHANE	2.373	64	1236232	179.1347263	ppb	97
11) VINYL BROMIDE	2.459	106	1335506	132.6417039	ppb	95
12) TRICHLOROFLUOROMETHANE	2.465	101	3066031	198.5812585	ppb	# 97
13) DICHLOROFLUOROMETHANE	2.507	67	3780061	183.5745237	ppb	98
14) ETHYL ETHER	2.654	59	1651568	178.9192030	ppb	98
15) ACROLEIN	3.013	56	976827	1520.8281604	ppb	98
16) ETHANOL	2.751	45	1548110	Below Cal	#	98
17) 1,1-DICHLOROETHENE	2.800	96	1695351	176.5797830	ppb	95
18) 1,1,2-TRICHLOROTRIFLUO...	2.843	101	1798117	190.7650896	ppb	98
19) ACETONE	3.184	43	4141363	924.3555485	ppb	99
20) IODOMETHANE	2.904	142	16345539	810.5188481	ppb	97
21) CARBON DISULFIDE	2.837	76	4387681	154.6519453	ppb	99
22) ALLYL CHLORIDE	3.093	76	5193729	855.4696305	ppb	91
23) METHYLENE CHLORIDE	3.160	84	1951708	177.9639187	ppb	98
24) METHYL ACETATE	3.245	43	8383757	854.1640986	ppb	# 94
25) ACRYLONITRILE	3.641	53	5490153	947.0086196	ppb	99
26) n-HEXANE	3.288	56	1054997	173.4092588	ppb	# 99
27) TRANS-1,2-DICHLOROETHENE	3.257	96	1914718	175.0267537	ppb	98
28) METHYL TERT-BUTYL ETHER	3.306	73	5939200	187.8009448	ppb	99
29) TERT-BUTYL ALCOHOL	3.343	59	2046282	1067.1863888	ppb	# 100
30) 1,1-DICHLOROETHANE	3.617	63	3655592	185.6008030	ppb	100
32) DI-ISOPROPYL ETHER	3.507	45	6891251	189.3835435	ppb	99
33) ETHYL TERT-BUTYL ETHER	3.714	59	6267433	186.1054308	ppb	98
34) 2,2-DICHLOROPROPANE	3.983	77	2348611	171.2646309	ppb	100
35) CIS-1,2-DICHLOROETHENE	3.922	96	2332364	188.7590249	ppb	100
36) 2-BUTANONE (MEK)	4.226	43	7369561	955.9836799	ppb	98
37) BROMOCHLOROMETHANE	4.038	130	1517781	186.0233223	ppb	97
38) TETRAHYDROFURAN	4.159	42	929078	191.0102675	ppb	94
39) CHLOROFORM	4.062	83	3766479	189.8058532	ppb	99

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 15.D
 Acq On : 20 Aug 2020 12:27 am
 Operator : 808
 Sample : STD VMS 200 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 15 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 20 08:51:38 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:50:21 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) CYCLOHEXANE	4.044	84	2283356	188.2560446	ppb	98
41) 1,1,1-TRICHLOROETHANE	4.196	97	3342990	197.3029314	ppb	97
42) CARBON TETRACHLORIDE	4.159	117	2939757	198.3470023	ppb	100
43) 1,1-DICHLOROPROPENE	4.257	75	2704165	189.5120813	ppb	98
44) 2,2,4-TRIMETHYLPENTANE	4.306	57	2554526	158.4143106	ppb	# 49
45) n-Heptane	4.342	71	801826	186.4510839	ppb	# 67
46) BENZENE	4.403	78	7997559	183.9532228	ppb	97
47) TERT-AMYL METHYL ETHER	4.434	73	6111640	186.9624617	ppb	100
49) 1,2-DICHLOROETHANE	4.519	62	2750836	185.1812131	ppb	99
50) T-AMYL ALCOHOL	4.519	59	2035118	1122.1728839	ppb	89
51) TRICHLOROETHENE	4.732	132	2386753	189.6881753	ppb	99
52) METHYL CYCLOHEXANE	4.732	83	2195863	194.4631509	ppb	98
53) TERT-AMYL ETHYL ETHER	4.824	59	5113038	194.9276409	ppb	99
54) 1,2-DICHLOROPROPANE	5.043	62	1547130	192.6585139	ppb	98
55) DIBROMOMETHANE	4.989	93	1472001	193.9641147	ppb	99
56) BROMODICHLOROMETHANE	5.068	83	3010008	198.1437063	ppb	# 94
57) 2-CHLOROETHYL VINYL ETHER	5.385	63	7771845	905.2511154	ppb	99
58) CIS-1,3-DICHLOROPROPENE	5.446	75	3639525	195.7618462	ppb	100
60) 4-METHYL-2-PENTANONE (...)	5.812	43	14133885	917.8571304	ppb	95
62) TOLUENE	5.598	91	9077644	190.8576921	ppb	98
63) TRANS-1,3-DICHLOROPROPENE	5.848	75	3412527	202.6351697	ppb	98
64) 1,1,2-TRICHLOROETHANE	5.958	97	2074909	202.8919526	ppb	97
65) TETRACHLOROETHENE	5.848	164	1788296	196.9216173	ppb	99
66) 1,3-DICHLOROPROPANE	6.147	76	3410928	202.1676169	ppb	99
67) 2-HEXANONE	6.354	58	6280644	994.4074309	ppb	93
68) CHLORODIBROMOMETHANE	6.086	129	2626872	208.9185658	ppb	99
69) 1,2-DIBROMOETHANE	6.263	107	2334560	203.6430635	ppb	99
70) CHLOROENZENE	6.604	112	5962329	198.3558004	ppb	99
71) 1,1,1,2-TETRACHLOROETHANE	6.641	133	2287700	206.9403044	ppb	# 100
72) ETHYLBENZENE	6.598	106	3079079	201.4704743	ppb	89
73) M&P-XYLENE	6.696	106	7209643	388.5844883	ppb	93
74) O-XYLENE	7.006	106	3721219	204.1982579	ppb	97
77) STYRENE	7.037	104	6372067	206.7325951	ppb	97
78) BROMOFORM	7.080	173	2098984	213.6773682	ppb	98
79) ISOPROPYLBENZENE	7.220	105	8481712	202.1405199	ppb	98
82) BROMOBENZENE	7.531	77	4001320	204.5195270	ppb	100
83) 1,1,2,2-TETRACHLOROETHANE	7.573	83	3160251	204.6375672	ppb	99
84) 1,2,3-TRICHLOROPROPANE	7.695	110	978454	203.8868210	ppb	89
85) TRANS-1,4-DICHLORO-2-B...	7.708	53	887692	227.1403505	ppb	96
86) N-PROPYLBENZENE	7.525	91	9326844	196.7883833	ppb	98
87) 4-ETHYLTOLUENE	7.604	105	7737525	195.4666945	ppb	98
88) 2-CHLOROTOLUENE	7.659	91	6207588	196.4701248	ppb	98
89) 4-CHLOROTOLUENE	7.781	91	6313756	204.3885513	ppb	99
90) 1,3,5-TRIMETHYLBENZENE	7.659	105	6441917	193.7781478	ppb	97
91) TERT-BUTYLBENZENE	7.909	119	5539703	199.0844499	ppb	99
92) 1,2,4-TRIMETHYLBENZENE	7.957	105	6530169	198.9044078	ppb	98
93) SEC-BUTYLBENZENE	8.043	105	7097396	198.9268062	ppb	99
94) 1,3-DICHLOROBENZENE	8.238	146	3955965	204.3626031	ppb	100
95) P-ISOPROPYLTOLUENE	8.146	119	6367451	195.4464367	ppb	99
96) DICYCLOPENTADIENE	8.153	66	7235418	189.5144192	ppb	100
97) 1,4-DICHLOROBENZENE	8.305	146	3973429	203.4448779	ppb	# 1
98) 1,2,3-TRIMETHYLBENZENE	8.305	105	5175235	194.5780366	ppb	100
99) 1,2-DICHLOROBENZENE	8.640	146	3861895	206.2977473	ppb	98
100) N-BUTYLBENZENE	8.476	91	5008546	201.3555366	ppb	99

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 15.D
 Acq On : 20 Aug 2020 12:27 am
 Operator : 808
 Sample : STD VMS 200 PPB 20H19610
 Misc : soil surr/is 20G06381
 ALS Vial : 15 Sample Multiplier: 1
 InstName : VOCMS26

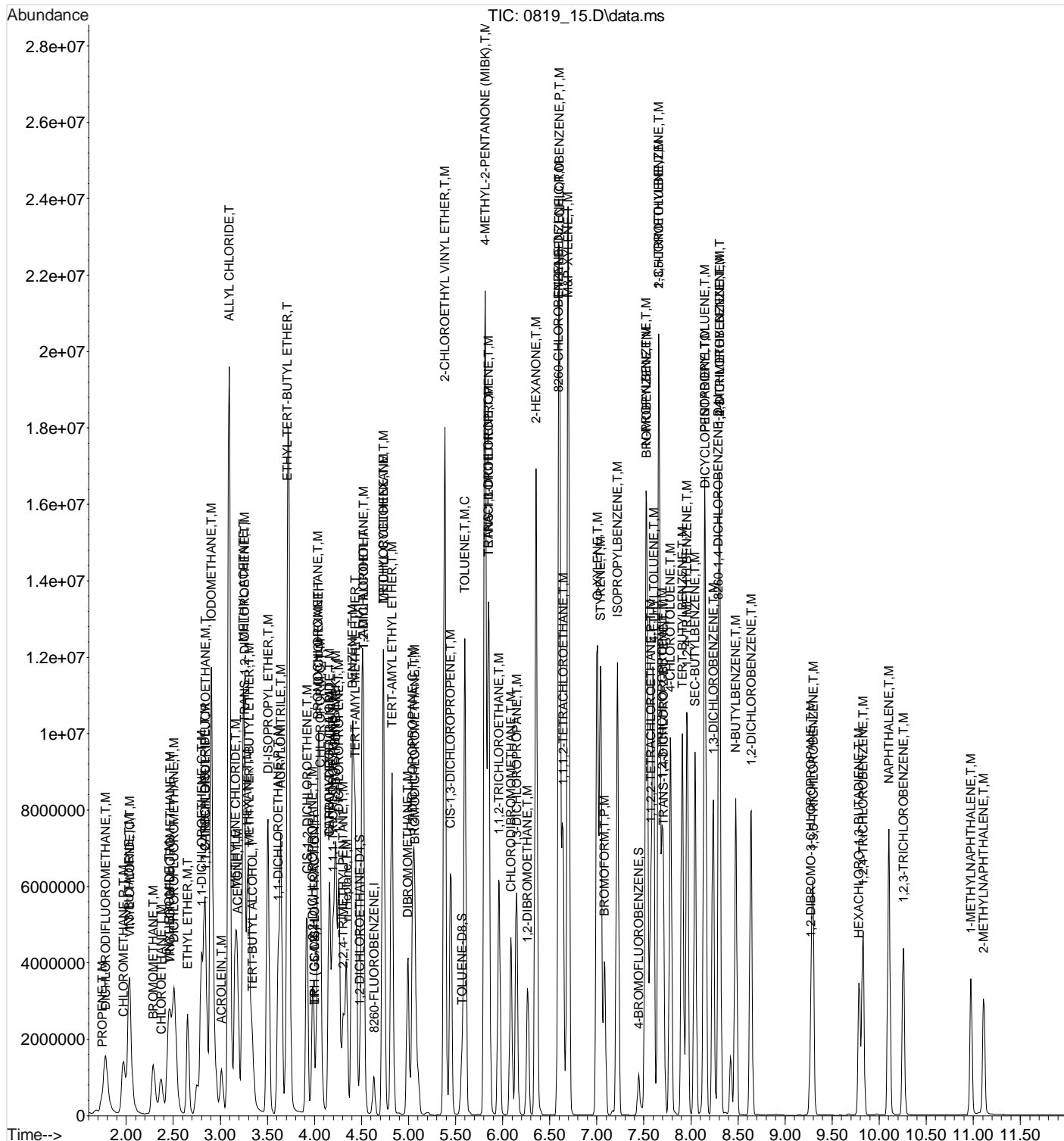
Quant Time: Aug 20 08:51:38 2020
 Quant Method : C:\msdchem\1\methods\V826H19T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 08:50:21 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
101) 1,2-DIBROMO-3-CHLOROPR...	9.274	157	929406	206.3037727	ppb		95
102) 1,3,5-TRICHLOROBENZENE	9.299	180	1942424	196.0612519	ppb		98
103) 1,2,4-TRICHLOROBENZENE	9.829	180	1734514	192.9044971	ppb		99
104) HEXACHLORO-1,3-BUTADIENE	9.786	225	772754	190.9328050	ppb		99
105) NAPHTHALENE	10.103	128	6599847	195.3943795	ppb		99
106) 1,2,3-TRICHLOROBENZENE	10.256	180	1558302	189.1286187	ppb		99
107) 1-METHYLNAPHTHALENE	10.975	142	1950880	180.5694822	ppb		98
108) 2-METHYLNAPHTHALENE	11.109	142	1702763	173.9333770	ppb		96

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

Data Path : C:\msdchem\1\data\081920\
Data File : 0819 15.D
Acq On : 20 Aug 2020 12:27 am
Operator : 808
Sample : STD VMS 200 PPB 20H19610
Misc : soil surr/is 20G06381
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS26

Quant Time: Aug 20 08:51:38 2020
Quant Method : C:\msdchem\1\methods\V826H19T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 08:50:21 2020
Response via : Initial Calibration





7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG: L1253450
Instrument ID: VOCMS7
Lab File ID: 0707_43
Analytical Method: 8260B

Calibration (begin) date/time: 07/07/20 16:02
Calibration (end) date/time: 07/08/20 02:22
Analysis date/time: 07/08/20 10:50
Sample ID: SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
1,1,1,2-TETRACHLOROETHANE	0.818803	0.74795780		8.65	40	0.0050	0.004567	91.30	
1,1,1-TRICHLOROETHANE	0.584738	0.55145370		5.69	40	0.0050	0.004715	94.30	
1,1,2,2-TETRACHLOROETHANE	1.429936	1.317703	0.30	7.85	40	0.0050	0.004608	92.20	
1,1,2-TRICHLOROETHANE	0.770136	0.70007130		9.10	40	0.0050	0.004545	90.90	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.319584	0.34119170		6.76	40	0.0050	0.005338	107	
1,1-DICHLOROETHANE	0.640064	0.58099230	0.10	9.23	40	0.0050	0.004539	90.80	
1,1-DICHLOROETHENE	0.311713	0.31691550		1.67	20.49	0.0050	0.005083	102	
1,1-DICHLOROPROPENE	0.461888	0.45608620		1.26	40	0.0050	0.004937	98.70	
1,2,3-TRICHLOROBENZENE	0.795482	0.79667680		0.15	40	0.0050	0.005008	100	
1,2,3-TRICHLOROPROPANE	0.411813	0.36838330		10.50	40	0.0050	0.004473	89.50	
1,2,3-TRIMETHYLBENZENE	2.292469	2.539168		10.80	40	0.0050	0.005538	111	
1,2,4-TRICHLOROBENZENE	0.869325	0.86601040		0.3810	40	0.0050	0.004981	99.60	
1,2,4-TRIMETHYLBENZENE	2.900834	2.697730		7	40	0.0050	0.004650	93	
1,2-DIBROMO-3-CHLOROPROPANE	0.415247	0.33542370		19.20	40	0.0050	0.004039	80.80	58 - 134
1,2-DIBROMOETHANE	0.818611	0.78938910		3.57	40	0.0050	0.004822	96.40	
1,2-DICHLOROBENZENE	1.617461	1.464110		9.48	40	0.0050	0.004526	90.50	
1,2-DICHLOROETHANE	0.438355	0.39920990		8.93	40	0.0050	0.004554	91.10	
1,2-DICHLOROPROPANE	0.228386	0.20958350		8.23	20.49	0.0050	0.004588	91.80	
1,3,5-TRIMETHYLBENZENE	3.536925	3.142139		11.20	40	0.0050	0.004442	88.80	
1,3-DICHLOROBENZENE	1.575602	1.579104		0.2220	40	0.0050	0.005011	100	
1,3-DICHLOROPROPANE	1.165699	1.090884		6.42	40	0.0050	0.004679	93.60	
1,4-DICHLOROBENZENE	1.799160	1.467888		18.40	40	0.0050	0.004079	81.60	
2,2-DICHLOROPROPANE	0.558647	0.56240860		0.6730	40	0.0050	0.005034	101	
2-BUTANONE (MEK)	0.243611	0.21165540		13.10	40	0.0250	0.02172	86.90	44 - 160
2-CHLOROTOLUENE	2.993693	2.655164		11.30	40	0.0050	0.004435	88.70	
4-CHLOROTOLUENE	2.673467	2.258010		15.50	40	0.0050	0.004223	84.50	
4-METHYL-2-PENTANONE (MIBK)	1.319651	1.138290		13.70	40	0.0250	0.02156	86.20	68 - 142
ACETONE	0.160644	0.11801550		26.50	40	0.0250	0.01837	73.50	19 - 160
ACROLEIN	0.042573	0.06199303		45.60	40	0.0250	0.03640	146	10 - 160
ACRYLONITRILE	0.179918	0.14842450		17.50	40	0.0250	0.02062	82.50	
BENZENE	1.470211	1.334616		9.22	40	0.0050	0.004539	90.80	
BROMOBENZENE	1.775755	1.435566		19.20	40	0.0050	0.004042	80.80	
BROMODICHLOROMETHANE	0.476452	0.43925660		7.81	40	0.0050	0.004610	92.20	
BROMOFORM	0.779644	0.69606320	0.10	10.70	40	0.0050	0.004464	89.30	
BROMOMETHANE	0.383545	0.45413350		18.40	40	0.0050	0.006393	128	10 - 160
CARBON TETRACHLORIDE	0.542306	0.50503590		6.87	40	0.0050	0.004656	93.10	
CHLOROBENZENE	2.424480	2.271297	0.30	6.32	40	0.0050	0.004684	93.70	
CHLORODIBROMOMETHANE	0.928661	0.88022580		5.22	40	0.0050	0.004739	94.80	
CHLOROETHANE	0.437711	0.299275		31.60	40	0.0050	0.005223	104	47 - 150
CHLOROFORM	0.703970	0.63313590		10.10	20.49	0.0050	0.004497	89.90	
CHLOROMETHANE	0.630426	0.50336450	0.10	20.20	40	0.0050	0.003992	79.80	
CIS-1,2-DICHLOROETHENE	0.3829	0.36368080		5.02	40	0.0050	0.004749	95	
CIS-1,3-DICHLOROPROPENE	0.5097	0.46611440		8.55	40	0.0050	0.004572	91.40	
DI-ISOPROPYL ETHER	1.061483	0.94829720		10.70	40	0.0050	0.004467	89.30	
DIBROMOMETHANE	0.205793	0.19487210		5.31	40	0.0050	0.004735	94.70	
DICHLORODIFLUOROMETHANE	0.584980	0.48665080		16.80	40	0.0050	0.004160	83.20	51 - 149
ETHYLBENZENE	1.317986	1.292809		1.91	20.49	0.0050	0.004904	98.10	
HEXACHLORO-1,3-BUTADIENE	0.429715	0.43880960		2.12	40	0.0050	0.005106	102	



7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG: L1253450
Instrument ID: VOCMS7
Lab File ID: 0707_43
Analytical Method: 8260B

Calibration (begin) date/time: 07/07/20 16:02
Calibration (end) date/time: 07/08/20 02:22
Analysis date/time: 07/08/20 10:50
Sample ID: SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
ISOPROPYLBENZENE	4.049044	3.794088		6.30	40	0.0050	0.004685	93.70	
M&P-XYLENE	1.683541	1.524057		9.47	40	0.01	0.009053	90.50	
METHYL TERT-BUTYL ETHER	0.967923	0.87844710		9.24	40	0.0050	0.004538	90.80	
METHYLENE CHLORIDE	0.348921	0.33445660		4.15	40	0.0050	0.004793	95.90	
N-BUTYLBENZENE	2.483440	2.321744		6.51	40	0.0050	0.004674	93.50	
N-PROPYLBENZENE	5.037625	4.448962		11.70	40	0.0050	0.004416	88.30	
NAPHTHALENE	2.721387	2.717669		0.1370	40	0.0050	0.004993	99.90	54 - 135
O-XYLENE	1.612710	1.495198		7.29	40	0.0050	0.004636	92.70	
P-ISOPROPYLTOLUENE	2.939676	2.739430		6.81	40	0.0050	0.004659	93.20	
SEC-BUTYLBENZENE	3.610857	3.364207		6.83	40	0.0050	0.004658	93.20	
STYRENE	2.384710	2.189194		8.20	40	0.0050	0.004590	91.80	
TERT-BUTYLBENZENE	3.027958	2.737017		9.61	40	0.0050	0.004520	90.40	
TETRACHLOROETHENE	0.842982	0.81533640		3.28	40	0.0050	0.004836	96.70	
TOLUENE	3.940515	3.658909		7.15	20.49	0.0050	0.004643	92.90	
TRANS-1,2-DICHLOROETHENE	0.341669	0.32563640		4.69	40	0.0050	0.004765	95.30	
TRANS-1,3-DICHLOROPROPENE	1.066184	0.96536670		9.46	40	0.0050	0.004527	90.50	
TRICHLOROETHENE	0.397673	0.34556040		13.10	40	0.0050	0.004345	86.90	
TRICHLOROFLUOROMETHANE	0.636092	0.62861820		1.17	40	0.0050	0.004941	98.80	
VINYL CHLORIDE	0.492979	0.44789480		9.15	20.49	0.0050	0.004543	90.90	
XYLENES, TOTAL	0	1.634098		0	40	0.0150	0.013689	91.30	
1,2-DICHLOROETHANE-D4	0.311366	0.29983870		3.70	40	0.0160	0.01541	96.30	70 - 130
4-BROMOFLUOROBENZENE	0.913071	0.87500990		4.17	40	0.0160	0.01533	95.80	67 - 138
TOLUENE-D8	2.606448	2.605754		0.0266	40	0.0160	0.01600	100	75 - 131

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_43.D
 Acq On : 8 Jul 2020 10:50 am
 Operator : 988
 Sample : SSCV VMS 5.0 PPB 20G07573
 Misc : waterIS/SURR20G06381
 ALS Vial : 43 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 11:05:31 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.387	96	193374	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.303	82	75846	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.666	152	70292	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.387	96	192499	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.303	82	76079	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.666	152	70292	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.241	65	57981	15.4076599	ppb	0.00
Spiked Amount	16.000		Recovery	=	96.30%	
61) TOLUENE-D8	5.299	98	197636	15.9957399	ppb	0.00
Spiked Amount	16.000	Range 90 - 115	Recovery	=	99.97%	
80) 4-BROMOFLUOROBENZENE	7.148	95	66366	15.3330490	ppb	0.00
Spiked Amount	16.000	Range 80 - 120	Recovery	=	95.83%	
Target Compounds						
					Qvalue	
3) LRH (C5-C8)	4.000	TIC	1746426m	0.0704776	ppm	
4) PROPENE	1.600	41	20523	7.1997044	ppb	99
5) DICHLORODIFLUOROMETHANE	1.637	85	29408	4.1595512	ppb	99
6) CHLOROMETHANE	1.813	50	30418	3.9922569	ppb	99
7) VINYL CHLORIDE	1.868	62	27066	4.5427333	ppb	99
8) 1,3-BUTADIENE	1.880	39	23414	5.1351393	ppb	96
9) BROMOMETHANE	2.111	94	27443	6.3931178	ppb	97
10) CHLOROETHANE	2.196	64	18085	5.2230088	ppb	99
11) VINYL BROMIDE	2.282	106	19752	5.1455782	ppb	99
12) TRICHLOROFLUOROMETHANE	2.294	101	37987	4.9412523	ppb	99
13) DICHLOROFLUOROMETHANE	2.324	67	42546	4.5559437	ppb	93
14) ETHYL ETHER	2.488	59	13304	4.7594146	ppb	96
15) ACROLEIN	2.835	56	18731	36.4035978	ppb	92
16) ETHANOL	2.586	45	16130	186.5610842	ppb	# 77
17) 1,1-DICHLOROETHENE	2.628	96	19151	5.0834486	ppb	98
18) 1,1,2-TRICHLOROTRIFLUO...	2.634	101	20618	5.3380585	ppb	98
19) ACETONE	2.993	43	35658	18.3659720	ppb	100
20) IODOMETHANE	2.726	142	162619	23.3589026	ppb	98
21) CARBON DISULFIDE	2.665	76	60178	5.2961505	ppb	100
22) ALLYL CHLORIDE	2.902	76	54355	25.1439934	ppb	89
23) METHYLENE CHLORIDE	2.969	84	20211	4.7927313	ppb	97
24) METHYL ACETATE	3.048	43	76012	22.1710438	ppb	# 98
25) ACRYLONITRILE	3.438	53	44846	20.6238723	ppb	99
26) n-HEXANE	3.091	56	15821	5.7733858	ppb	# 93
27) TRANS-1,2-DICHLOROETHENE	3.060	96	19678	4.7653792	ppb	97
28) METHYL TERT-BUTYL ETHER	3.103	73	53084	4.5377928	ppb	# 78
29) TERT-BUTYL ALCOHOL	3.139	59	18664	19.7243128	ppb	# 100
30) 1,1-DICHLOROETHANE	3.401	63	35109	4.5385449	ppb	97
31) VINYL ACETATE	3.511	43	203484	27.6394471	ppb	99
32) DI-ISOPROPYL ETHER	3.298	45	57305	4.4668507	ppb	96
33) ETHYL TERT-BUTYL ETHER	3.498	59	51763	4.3769006	ppb	99
34) 2,2-DICHLOROPROPANE	3.754	77	33986	5.0336711	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.699	96	21977	4.7490280	ppb	97
36) 2-BUTANONE (MEK)	3.997	43	63951	21.7206055	ppb	95
37) BROMOCHLOROMETHANE	3.815	130	12999	5.2294947	ppb	99
38) TETRAHYDROFURAN	3.942	42	13789	6.3910960	ppb	# 92
39) CHLOROFORM	3.833	83	38260	4.4968966	ppb	96
40) CYCLOHEXANE	3.815	84	31546	5.4887832	ppb	92

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_43.D
 Acq On : 8 Jul 2020 10:50 am
 Operator : 988
 Sample : SSCV VMS 5.0 PPB 20G07573
 Misc : waterIS/SURR20G06381
 ALS Vial : 43 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Jul 08 11:05:31 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-TRICHLOROETHANE	3.961	97	33324	4.7153940	ppb	98
42) CARBON TETRACHLORIDE	3.930	117	30519	4.6563708	ppb	92
43) 1,1-DICHLOROPROPENE	4.028	75	27561	4.9371963	ppb	97
44) 2,2,4-TRIMETHYLPENTANE	4.064	57	39704	5.6774791	ppb	98
45) n-Heptane	4.107	71	11558	5.9984664	ppb	# 81
46) BENZENE	4.168	78	80650	4.5388593	ppb	100
47) TERT-AMYL METHYL ETHER	4.192	73	49881	4.1208370	ppb	98
49) 1,2-DICHLOROETHANE	4.277	62	24124	4.5535008	ppb	98
50) T-AMYL ALCOHOL	4.283	59	16970	20.4110501	ppb	93
51) TRICHLOROETHENE	4.490	132	20882	4.3447787	ppb	95
52) METHYL CYCLOHEXANE	4.484	83	31102	5.2616553	ppb	97
53) TERT-AMYL ETHYL ETHER	4.575	59	41683	4.8656124	ppb	100
54) 1,2-DICHLOROPROPANE	4.788	62	12665	4.5883611	ppb	93
55) DIBROMOMETHANE	4.745	93	11776	4.7346528	ppb	92
56) BROMODICHLOROMETHANE	4.812	83	26544	4.6096600	ppb	99
57) 2-CHLOROETHYL VINYL ETHER	5.123	63	64345	22.1629229	ppb	99
58) CIS-1,3-DICHLOROPROPENE	5.183	75	28167	4.5724393	ppb	99
60) 4-METHYL-2-PENTANONE (...)	5.536	43	134898	21.5642217	ppb	100
62) TOLUENE	5.329	91	86723	4.6426788	ppb	99
63) TRANS-1,3-DICHLOROPROPENE	5.585	75	22881	4.5272034	ppb	99
64) 1,1,2-TRICHLOROETHANE	5.688	97	16593	4.5451168	ppb	98
65) TETRACHLOROETHENE	5.585	164	19325	4.8360218	ppb	97
66) 1,3-DICHLOROPROPANE	5.871	76	25856	4.6790995	ppb	99
67) 2-HEXANONE	6.078	58	53808	22.1719926	ppb	93
68) CHLORODIBROMOMETHANE	5.816	129	20863	4.7392200	ppb	96
69) 1,2-DIBROMOETHANE	5.993	107	18710	4.8215149	ppb	98
70) CHLOROBENZENE	6.321	112	53834	4.6840904	ppb	98
71) 1,1,1,2-TETRACHLOROETHANE	6.352	133	17728	4.5673858	ppb	# 100
72) ETHYLBENZENE	6.315	106	30642	4.9044883	ppb	90
73) M&P-XYLENE	6.406	106	72246	9.0526850	ppb	94
74) O-XYLENE	6.710	106	35439	4.6356700	ppb	98
77) STYRENE	6.753	104	51888	4.5900639	ppb	99
78) BROMOFORM	6.790	173	16498	4.4639825	ppb	97
79) ISOPROPYLBENZENE	6.923	105	89927	4.6851649	ppb	99
82) BROMOBENZENE	7.221	77	31534	4.0421287	ppb	100
83) 1,1,2,2-TETRACHLOROETHANE	7.252	83	28945	4.6075614	ppb	97
84) 1,2,3-TRICHLOROPROPANE	7.343	110	8092	4.4727007	ppb	91
85) TRANS-1,4-DICHLORO-2-B...	7.355	53	8328	5.0630837	ppb	# 98
86) N-PROPYLBENZENE	7.209	91	97727	4.4157333	ppb	99
87) 4-ETHYLTOLUENE	7.276	105	82032	4.9589774	ppb	96
88) 2-CHLOROTOLUENE	7.319	91	58324	4.4345968	ppb	97
89) 4-CHLOROTOLUENE	7.404	91	49600	4.2229988	ppb	96
90) 1,3,5-TRIMETHYLBENZENE	7.319	105	69021	4.4419070	ppb	98
91) TERT-BUTYLBENZENE	7.471	119	60122	4.5195755	ppb	99
92) 1,2,4-TRIMETHYLBENZENE	7.501	105	59259	4.6499209	ppb	98
93) SEC-BUTYLBENZENE	7.544	105	73899	4.6584604	ppb	99
94) 1,3-DICHLOROBENZENE	7.641	146	34687	5.0111152	ppb	96
95) P-ISOPROPYLTOLUENE	7.593	119	60175	4.6594083	ppb	99
96) DICYCLOPENTADIENE	7.599	66	68575	4.5173875	ppb	97
97) 1,4-DICHLOROBENZENE	7.672	146	32244	4.0793714	ppb	84
98) 1,2,3-TRIMETHYLBENZENE	7.672	105	55776	5.5380630	ppb	100
99) 1,2-DICHLOROBENZENE	7.830	146	32161	4.5259502	ppb	98
100) N-BUTYLBENZENE	7.751	91	51000	4.6744510	ppb	99
101) 1,2-DIBROMO-3-CHLOROPR...	8.122	157	7368	4.0388403	ppb	96
102) 1,3,5-TRICHLOROBENZENE	8.128	180	22259	4.8381410	ppb	96

Data Path : C:\msdchem\1\data\070720\
 Data File : 0707_43.D
 Acq On : 8 Jul 2020 10:50 am
 Operator : 988
 Sample : SSCV VMS 5.0 PPB 20G07573
 Misc : waterIS/SURR20G06381
 ALS Vial : 43 Sample Multiplier: 1
 InstName : VOCMS7

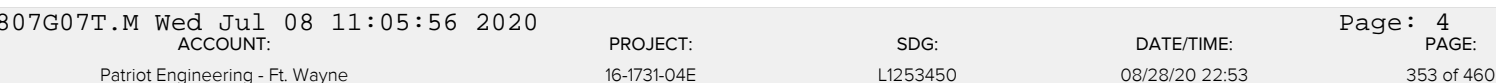
Quant Time: Jul 08 11:05:31 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
103) 1,2,4-TRICHLORO BENZENE	8.359	180	19023	4.9809372	ppb		99
104) HEXACHLORO-1,3-BUTADIENE	8.341	225	9639	5.1058189	ppb		98
105) NAPHTHALENE	8.475	128	59697	4.9931699	ppb		98
106) 1,2,3-TRICHLORO BENZENE	8.542	180	17500	5.0075118	ppb		93
107) 1-METHYLNAPHTHALENE	8.870	142	12278	4.5001087	ppb		91
108) 2-METHYLNAPHTHALENE	8.931	142	13584	5.1408215	ppb	#	82
111) 2-PROPANOL	2.933	45	479	1.0087617	ppb	#	55
112) ACETONITRILE	3.298	41	10504	11.5039707	ppb	#	37
113) CHLOROPRENE	3.438	53	46557	7.0218155	ppb	#	22
114) PROPIONITRILE	4.107	54	282	0.2865976	ppb	#	1
115) ETHYL ACETATE	3.821	43	4037	0.6857104	ppb	#	67
116) METHACRYLONITRILE	4.241	67	29576	12.7561195	ppb	#	1
118) ISOBUTANOL	4.192	43	16399	38.4380321	ppb	#	73
119) N-BUTANOL	4.569	56	1125	4.9865457	ppb	#	1
120) METHYL METHACRYLATE	4.788	41	10530	2.3156515	ppb	#	18
121) 1,4-DIOXANE	4.843	88	1252	15.0314913	ppb	#	41
122) N-OCTANE	5.074	85	459	0.2860227	ppb	#	5
124) 2-NITROPROPANE	5.469	43	204	0.0910252	ppb	#	4
125) 3,3-DIMETHYL-1-BUTANOL	6.078	57	15317	18.7241647	ppb	#	34
126) ETHYL METHACRYLATE	5.542	69	930	0.1591033	ppb	#	1
128) CIS-1,4-DICHLORO-2-BUTENE	7.161	53	500	0.2755536	ppb	#	1
129) CYCLOHEXANONE	7.355	55	375	1.4262118	ppb	#	1
130) PENTACHLOROETHANE	7.501	117	1978	0.7614121	ppb	#	7
131) HEXACHLOROETHANE	7.726	117	3578	1.3363017	ppb	#	12

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

(QT Reviewed)

Quant Time: Jul 08 11:05:31 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration





7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG: L1253450
Instrument ID: VOCMS7
Lab File ID: 0825_02
Analytical Method: 8260B

Calibration (begin) date/time: 07/07/20 16:02
Calibration (end) date/time: 07/08/20 02:22
Analysis date/time: 08/25/20 00:24
Sample ID: ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
1,1,1,2-TETRACHLOROETHANE	0.818803	0.91374960		11.60		0.0050	0.005580	112	
1,1,1-TRICHLOROETHANE	0.584738	0.59090830		1.06		0.0050	0.005053	101	
1,1,2,2-TETRACHLOROETHANE	1.429936	1.707599	0.30	19.40		0.0050	0.005971	119	
1,1,2-TRICHLOROETHANE	0.770136	0.82147440		6.67		0.0050	0.005333	107	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.319584	0.28595350		10.50		0.0050	0.004474	89.50	
1,1-DICHLOROETHANE	0.640064	0.70100490	0.10	9.52		0.0050	0.005476	110	
1,1-DICHLOROETHENE	0.311713	0.32845250		5.37	20	0.0050	0.005269	105	
1,1-DICHLOROPROPENE	0.461888	0.47719230		3.31		0.0050	0.005166	103	
1,2,3-TRICHLOROBENZENE	0.795482	0.49769170		37.40		0.0050	0.003128	62.60	
1,2,3-TRICHLOROPROPANE	0.411813	0.488337		18.60		0.0050	0.005929	119	
1,2,3-TRIMETHYLBENZENE	2.292469	1.831190		20.10		0.0050	0.003994	79.90	
1,2,4-TRICHLOROBENZENE	0.869325	0.66506370		23.50		0.0050	0.003825	76.50	
1,2,4-TRIMETHYLBENZENE	2.900834	2.443539		15.80		0.0050	0.004212	84.20	
1,2-DIBROMO-3-CHLOROPROPANE	0.415247	0.33031960		20.50		0.0050	0.003977	79.50	
1,2-DIBROMOETHANE	0.818611	0.85196710		4.07		0.0050	0.005204	104	
1,2-DICHLOROBENZENE	1.617461	1.388236		14.20		0.0050	0.004291	85.80	
1,2-DICHLOROETHANE	0.438355	0.43938440		0.2350		0.0050	0.005012	100	
1,2-DICHLOROPROPANE	0.228386	0.27137880		18.80	20	0.0050	0.005941	119	
1,3,5-TRIMETHYLBENZENE	3.536925	3.317902		6.19		0.0050	0.004690	93.80	
1,3-DICHLOROBENZENE	1.575602	1.375299		12.70		0.0050	0.004364	87.30	
1,3-DICHLOROPROPANE	1.165699	1.300986		11.60		0.0050	0.005580	112	
1,4-DICHLOROBENZENE	1.799160	1.761494		2.09		0.0050	0.004895	97.90	
2,2-DICHLOROPROPANE	0.558647	0.50096840		10.30		0.0050	0.004484	89.70	
2-BUTANONE (MEK)	0.243611	0.20441590		16.10		0.0250	0.02098	83.90	
2-CHLOROTOLUENE	2.993693	3.104474		3.70		0.0050	0.005185	104	
4-CHLOROTOLUENE	2.673467	2.329725		12.90		0.0050	0.004357	87.10	
4-METHYL-2-PENTANONE (MIBK)	1.319651	1.179786		10.60		0.0250	0.02235	89.40	
ACETONE	0.160644	0.11837930		26.30		0.0250	0.01842	73.70	
ACROLEIN	0.042573	0.04368509		2.61		0.0250	0.02565	103	
ACRYLONITRILE	0.179918	0.15297440		15		0.0250	0.02126	85	
BENZENE	1.470211	1.564099		6.39		0.0050	0.005319	106	
BROMOBENZENE	1.775755	1.779108		0.1890		0.0050	0.005009	100	
BROMODICHLOROMETHANE	0.476452	0.47869570		0.4710		0.0050	0.005024	100	
BROMOFORM	0.779644	0.75826370	0.10	2.74		0.0050	0.004863	97.30	
BROMOMETHANE	0.383545	0.13122790		65.80		0.0050	0.001397	27.90	
CARBON TETRACHLORIDE	0.542306	0.52780690		2.67		0.0050	0.004866	97.30	
CHLOROBENZENE	2.424480	2.540290	0.30	4.78		0.0050	0.005239	105	
CHLORODIBROMOMETHANE	0.928661	0.93646960		0.8410		0.0050	0.005042	101	
CHLOROETHANE	0.437711	0.34808030		20.50		0.0050	0.006138	123	
CHLOROFORM	0.703970	0.70532030		0.1920	20	0.0050	0.005010	100	
CHLOROMETHANE	0.630426	0.45759230	0.10	27.40		0.0050	0.003629	72.60	
CIS-1,2-DICHLOROETHENE	0.3829	0.43898070		14.60		0.0050	0.005732	115	
CIS-1,3-DICHLOROPROPENE	0.5097	0.52008120		2.04		0.0050	0.005102	102	
DI-ISOPROPYL ETHER	1.061483	1.086629		2.37		0.0050	0.005118	102	
DIBROMOMETHANE	0.205793	0.23146890		12.50		0.0050	0.005624	112	
DICHLORODIFLUOROMETHANE	0.584980	0.48088120		17.80		0.0050	0.004110	82.20	
ETHYLBENZENE	1.317986	1.256576		4.66	20	0.0050	0.004767	95.30	
HEXACHLORO-1,3-BUTADIENE	0.429715	0.29930610		30.30		0.0050	0.003483	69.70	



7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG: L1253450
Instrument ID: VOCMS7
Lab File ID: 0825_02
Analytical Method: 8260B

Calibration (begin) date/time: 07/07/20 16:02
Calibration (end) date/time: 07/08/20 02:22
Analysis date/time: 08/25/20 00:24
Sample ID: ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
ISOPROPYLBENZENE	4.049044	3.478686		14.10		0.0050	0.004296	85.90	
M&P-XYLENE	1.683541	1.536507		8.73		0.01	0.009127	91.30	
METHYL TERT-BUTYL ETHER	0.967923	0.97997030		1.24		0.0050	0.005062	101	
METHYLENE CHLORIDE	0.348921	0.39951630		14.50		0.0050	0.005725	115	
N-BUTYLBENZENE	2.483440	1.649154		33.60		0.0050	0.003320	66.40	
N-PROPYLBENZENE	5.037625	4.592702		8.83		0.0050	0.004558	91.20	
NAPHTHALENE	2.721387	1.514987		44.30		0.0050	0.002783	55.70	
O-XYLENE	1.612710	1.436742		10.90		0.0050	0.004454	89.10	
P-ISOPROPYLTOLUENE	2.939676	2.398409		18.40		0.0050	0.004079	81.60	
SEC-BUTYLBENZENE	3.610857	2.911397		19.40		0.0050	0.004031	80.60	
STYRENE	2.384710	1.774519		25.60		0.0050	0.003721	74.40	
TERT-BUTYLBENZENE	3.027958	2.729235		9.87		0.0050	0.004507	90.10	
TETRACHLOROETHENE	0.842982	0.80659350		4.32		0.0050	0.004784	95.70	
TOLUENE	3.940515	3.871038		1.76	20	0.0050	0.004912	98.20	
TRANS-1,2-DICHLOROETHENE	0.341669	0.37477970		9.69		0.0050	0.005485	110	
TRANS-1,3-DICHLOROPROPENE	1.066184	0.83263520		21.90		0.0050	0.003905	78.10	
TRICHLOROETHENE	0.397673	0.40257880		1.23		0.0050	0.005062	101	
TRICHLOROFLUOROMETHANE	0.636092	0.53286010		16.20		0.0050	0.004189	83.80	
VINYL CHLORIDE	0.492979	0.53054930		7.62	20	0.0050	0.005381	108	
XYLENES, TOTAL	0	1.907010		0		0.0150	0.013581	90.50	
1,2-DICHLOROETHANE-D4	0.311366	0.29748390		4.46		0.0160	0.01529	95.60	70 - 130
4-BROMOFLUOROBENZENE	0.913071	0.86071960		5.73		0.0160	0.01508	94.30	70 - 130
TOLUENE-D8	2.606448	2.515778		3.48		0.0160	0.01544	96.50	70 - 130

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_02.D
 Acq On : 25 Aug 2020 12:24 am
 Operator : 808
 Sample : ICVLC5 VMS 5.0 PPB
 Misc : water
 ALS Vial : 58 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:55:52 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	229878	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.309	82	96338	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZENE...	7.665	152	75941	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.393	96	228420	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.309	82	96338	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZENE...	7.665	152	75941	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.247	65	68385	15.2866564	ppb	0.00
Spiked Amount 16.000			Recovery	=	95.54%	
61) TOLUENE-D8	5.299	98	242365	15.4434113	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	96.52%	
80) 4-BROMOFLUOROBENZENE	7.154	95	82920	15.0826353	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	=	94.27%	
Target Compounds						
					Qvalue	
4) PROPENE	1.606	41	12963	3.8254278	ppb	98
5) DICHLORODIFLUOROMETHANE	1.637	85	34545	4.1102369	ppb	100
6) CHLOROMETHANE	1.825	50	32872	3.6292311	ppb	100
7) VINYL CHLORIDE	1.868	62	38113	5.3810493	ppb	96
8) 1,3-BUTADIENE	1.880	39	28820	5.3170564	ppb	95
9) BROMOMETHANE	2.105	94	9427	1.3972048	ppb	90
10) CHLOROETHANE	2.196	64	25005	6.1382693	ppb	# 91
11) VINYL BROMIDE	2.275	106	29193	6.3973852	ppb	99
12) TRICHLOROFLUOROMETHANE	2.288	101	38279	4.1885460	ppb	99
13) DICHLOROFLUOROMETHANE	2.324	67	59682	5.3760544	ppb	96
14) ETHYL ETHER	2.494	59	17805	5.3581387	ppb	97
15) ACROLEIN	2.847	56	15691	25.6527918	ppb	96
16) ETHANOL	2.598	45	15973	156.0602727	ppb	# 76
17) 1,1-DICHLOROETHENE	2.628	96	23595	5.2685079	ppb	98
18) 1,1,2-TRICHLOROTRIFLUO...	2.634	101	20542	4.4738373	ppb	94
19) ACETONE	2.999	43	42520	18.4225975	ppb	90
20) IODOMETHANE	2.726	142	32772	3.9599050	ppb	# 82
21) CARBON DISULFIDE	2.665	76	73831	5.4659039	ppb	97
22) ALLYL CHLORIDE	2.908	76	74311	28.9166867	ppb	82
23) METHYLENE CHLORIDE	2.969	84	28700	5.7250311	ppb	97
24) METHYL ACETATE	3.054	43	92965	22.8099391	ppb	# 94
25) ACRYLONITRILE	3.450	53	54946	21.2560836	ppb	97
26) n-HEXANE	3.097	56	13377	4.1063508	ppb	# 91
27) TRANS-1,2-DICHLOROETHENE	3.066	96	26923	5.4845453	ppb	97
28) METHYL TERT-BUTYL ETHER	3.103	73	70398	5.0622317	ppb	89
29) TERT-BUTYL ALCOHOL	3.145	59	20923	18.6003785	ppb	# 100
30) 1,1-DICHLOROETHANE	3.407	63	50358	5.4760490	ppb	100
31) VINYL ACETATE	3.523	43	211313	24.1449312	ppb	99
32) DI-ISOPROPYL ETHER	3.297	45	78060	5.1184461	ppb	98
33) ETHYL TERT-BUTYL ETHER	3.498	59	68775	4.8919107	ppb	98
34) 2,2-DICHLOROPROPANE	3.760	77	35988	4.4837683	ppb	100
35) CIS-1,2-DICHLOROETHENE	3.705	96	31535	5.7323121	ppb	93
36) 2-BUTANONE (MEK)	4.009	43	73423	20.9776765	ppb	91
37) BROMOCHLOROMETHANE	3.821	130	19086	6.4590013	ppb	88
38) TETRAHYDROFURAN	3.948	42	10783	4.2041949	ppb	88
39) CHLOROFORM	3.839	83	50668	5.0095921	ppb	100
40) CYCLOHEXANE	3.821	84	26549	3.8858015	ppb	96
41) 1,1,1-TRICHLOROETHANE	3.967	97	42449	5.0527638	ppb	98

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_02.D
 Acq On : 25 Aug 2020 12:24 am
 Operator : 808
 Sample : ICVLCS VMS 5.0 PPB
 Misc : water
 ALS Vial : 58 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:55:52 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) CARBON TETRACHLORIDE	3.930	117	37916	4.8663175	ppb	96
43) 1,1-DICHLOROPROPENE	4.034	75	34280	5.1656729	ppb	99
44) 2,2,4-TRIMETHYLPENTANE	4.064	57	22053	2.6527091	ppb	97
45) n-Heptane	4.113	71	5723	2.4985150	ppb	# 91
46) BENZENE	4.174	78	112360	5.3193032	ppb	96
47) TERT-AMYL METHYL ETHER	4.198	73	68355	4.7503023	ppb	96
49) 1,2-DICHLOROETHANE	4.283	62	31564	5.0117431	ppb	98
50) T-AMYL ALCOHOL	4.289	59	18870	19.0922045	ppb	95
51) TRICHLOROETHENE	4.496	132	28920	5.0616782	ppb	93
52) METHYL CYCLOHEXANE	4.490	83	23801	3.3871151	ppb	94
53) TERT-AMYL ETHYL ETHER	4.575	59	46862	4.6015065	ppb	94
54) 1,2-DICHLOROPROPANE	4.794	62	19495	5.9412291	ppb	98
55) DIBROMOMETHANE	4.751	93	16628	5.6238150	ppb	90
56) BROMODICHLOROMETHANE	4.818	83	34388	5.0235429	ppb	100
57) 2-CHLOROETHYL VINYL ETHER	5.129	63	72010	20.8643909	ppb	98
58) CIS-1,3-DICHLOROPROPENE	5.189	75	37361	5.1018363	ppb	95
60) 4-METHYL-2-PENTANONE (...)	5.542	43	177591	22.3503478	ppb	98
62) TOLUENE	5.335	91	116540	4.9118423	ppb	99
63) TRANS-1,3-DICHLOROPROPENE	5.597	75	25067	3.9047427	ppb	# 97
64) 1,1,2-TRICHLOROETHANE	5.694	97	24731	5.3333104	ppb	100
65) TETRACHLOROETHENE	5.585	164	24283	4.7841649	ppb	98
66) 1,3-DICHLOROPROPANE	5.877	76	39167	5.5802841	ppb	95
67) 2-HEXANONE	6.084	58	63874	20.7213022	ppb	96
68) CHLORODIBROMOMETHANE	5.822	129	28193	5.0420420	ppb	97
69) 1,2-DIBROMOETHANE	5.999	107	25649	5.2037355	ppb	96
70) CHLOROBENZENE	6.321	112	76477	5.2388326	ppb	95
71) 1,1,1,2-TETRACHLOROETHANE	6.351	133	27509	5.5797895	ppb	# 100
72) ETHYLBENZENE	6.321	106	37830	4.7670311	ppb	95
73) M&P-XYLENE	6.412	106	92515	9.1266377	ppb	98
74) O-XYLENE	6.716	106	43254	4.4544325	ppb	97
77) STYRENE	6.765	104	53423	3.7206184	ppb	99
78) BROMOFORM	6.796	173	22828	4.8628862	ppb	97
79) ISOPROPYLBENZENE	6.929	105	104728	4.2956871	ppb	97
82) BROMOBENZENE	7.227	77	42221	5.0094400	ppb	94
83) 1,1,2,2-TETRACHLOROETHANE	7.258	83	40524	5.9708955	ppb	97
84) 1,2,3-TRICHLOROPROPANE	7.343	110	11589	5.9291101	ppb	84
85) TRANS-1,4-DICHLORO-2-B...	7.367	53	6653	3.7438764	ppb	# 87
86) N-PROPYLBENZENE	7.215	91	108992	4.5584005	ppb	98
87) 4-ETHYLTOLUENE	7.276	105	90164	5.0451210	ppb	98
88) 2-CHLOROTOLUENE	7.319	91	73674	5.1850229	ppb	96
89) 4-CHLOROTOLUENE	7.404	91	55288	4.3571223	ppb	91
90) 1,3,5-TRIMETHYLBENZENE	7.319	105	78739	4.6903764	ppb	98
91) TERT-BUTYLBENZENE	7.471	119	64769	4.5067244	ppb	92
92) 1,2,4-TRIMETHYLBENZENE	7.501	105	57989	4.2117875	ppb	99
93) SEC-BUTYLBENZENE	7.538	105	69092	4.0314493	ppb	# 92
94) 1,3-DICHLOROBENZENE	7.641	146	32638	4.3643621	ppb	96
95) P-ISOPROPYLTOLUENE	7.593	119	56918	4.0793775	ppb	98
96) DICYCLOPENTADIENE	7.593	66	71667	4.3698884	ppb	# 93
97) 1,4-DICHLOROBENZENE	7.672	146	41803	4.8953232	ppb	92
98) 1,2,3-TRIMETHYLBENZENE	7.665	105	43457	3.9939246	ppb	90
99) 1,2-DICHLOROBENZENE	7.830	146	32945	4.2914033	ppb	98
100) N-BUTYLBENZENE	7.751	91	39137	3.3203017	ppb	98
101) 1,2-DIBROMO-3-CHLOROPR...	8.122	157	7839	3.9773821	ppb	89
102) 1,3,5-TRICHLOROBENZENE	8.134	180	20616	4.1476955	ppb	96
103) 1,2,4-TRICHLOROBENZENE	8.371	180	15783	3.8251741	ppb	98

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_02.D
Acq On : 25 Aug 2020 12:24 am
Operator : 808
Sample : ICVLCS VMS 5.0 PPB
Misc : water
ALS Vial : 58 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Aug 25 10:55:52 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration

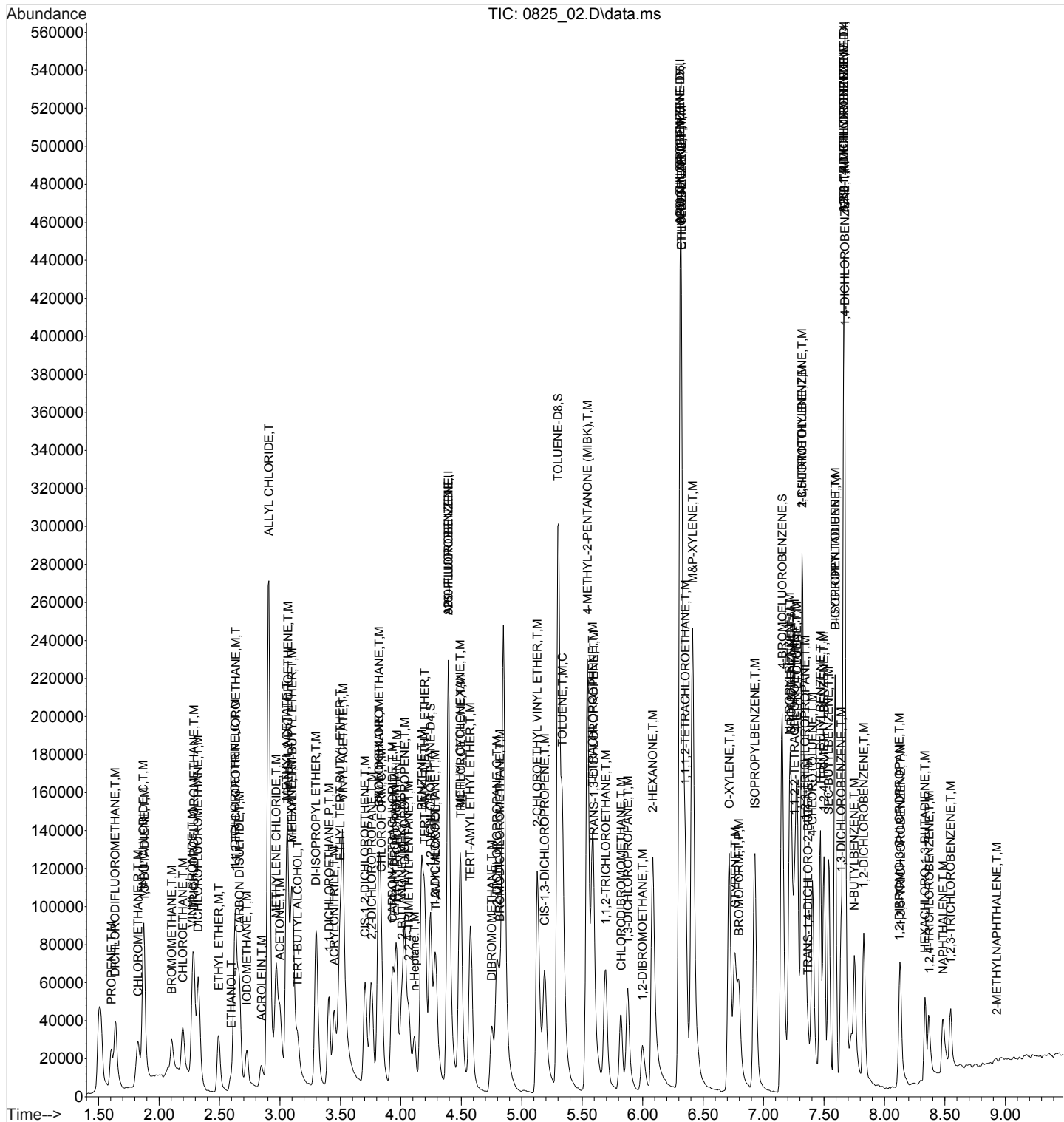
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
104) HEXACHLORO-1,3-BUTADIENE	8.335	225	7103	3.4826099	ppb		91
105) NAPHTHALENE	8.487	128	35953	2.7834829	ppb		99
106) 1,2,3-TRICHLOROBENZENE	8.548	180	11811	3.1282409	ppb		94
108) 2-METHYLNAPHTHALENE	8.931	142	1318	0.4616893	ppb	#	74

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

(QT Reviewed)

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_02.D
Acq On : 25 Aug 2020 12:24 am
Operator : 808
Sample : ICVLCS VMS 5.0 PPB
Misc : water
ALS Vial : 58 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Aug 25 10:55:52 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration





7A-OR

GC/MS CONTINUING
CALIBRATION VERIFICATION

SDG:	L1253450	Calibration (begin) date/time:	08/19/20 21:03
Instrument ID:	VOCMS26	Calibration (end) date/time:	08/20/20 04:32
Lab File ID:	0819_20	Analysis date/time:	08/20/20 02:09
Analytical Method:	8260B	Sample ID:	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
1,1,1,2-TETRACHLOROETHANE	0.612696	0.60921310		0.5680	40	0.0050	0.004972	99.40	
1,1,1-TRICHLOROETHANE	0.378311	0.39473510		4.34	40	0.0050	0.005217	104	
1,1,2,2-TETRACHLOROETHANE	0.839382	0.84903790	0.30	1.15	40	0.0050	0.005058	101	
1,1,2-TRICHLOROETHANE	0.579790	0.56779950		2.07	40	0.0050	0.004897	97.90	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.196513	0.21853910		11.20	40	0.0050	0.005070	101	
1,1-DICHLOROETHANE	0.462399	0.47585350	0.10	2.91	40	0.0050	0.005145	103	
1,1-DICHLOROETHENE	0.225390	0.24000180		6.48	20.49	0.0050	0.005698	114	
1,1-DICHLOROPROPENE	0.326031	0.34208910		4.93	40	0.0050	0.005246	105	
1,2,3-TRICHLOROBENZENE	0.409225	0.42483660		3.81	40	0.0050	0.005191	104	
1,2,3-TRICHLOROPROPANE	0.247011	0.25917310		4.92	40	0.0050	0.005246	105	
1,2,3-TRIMETHYLBENZENE	1.449992	1.663474		14.70	40	0.0050	0.005736	115	
1,2,4-TRICHLOROBENZENE	0.423073	0.44583670		5.38	40	0.0050	0.005269	105	
1,2,4-TRIMETHYLBENZENE	1.698849	1.728413		1.74	40	0.0050	0.005087	102	
1,2-DIBROMO-3-CHLOROPROPANE	0.223842	0.22997760		2.74	40	0.0050	0.005137	103	58 - 134
1,2-DIBROMOETHANE	0.636899	0.63754120		0.1010	40	0.0050	0.005005	100	
1,2-DICHLOROBENZENE	0.950244	0.97971210		3.10	40	0.0050	0.005155	103	
1,2-DICHLOROETHANE	0.362287	0.35659320		1.57	40	0.0050	0.004921	98.40	
1,2-DICHLOROPROPANE	0.185049	0.19401170		4.84	20.49	0.0050	0.005242	105	
1,3,5-TRIMETHYLBENZENE	1.707047	1.729737		1.33	40	0.0050	0.005066	101	
1,3-DICHLOROBENZENE	0.985936	1.001789		1.61	40	0.0050	0.005080	102	
1,3-DICHLOROPROPANE	0.912541	0.94287410		3.32	40	0.0050	0.005166	103	
1,4-DICHLOROBENZENE	1.021226	1.012849		0.82	40	0.0050	0.004959	99.20	
2,2-DICHLOROPROPANE	0.368115	0.30889840		16.10	40	0.0050	0.005205	104	
2-BUTANONE (MEK)	0.180053	0.18031430		0.1450	40	0.0250	0.02504	100	44 - 160
2-CHLOROTOLUENE	1.630891	1.676430		2.79	40	0.0050	0.005140	103	
4-CHLOROTOLUENE	1.593657	1.611706		1.13	40	0.0050	0.005057	101	
4-METHYL-2-PENTANONE (MIBK)	0.835687	0.87070390		4.19	40	0.0250	0.02605	104	68 - 142
ACETONE	0.123636	0.10936740		11.50	40	0.0250	0.02639	106	19 - 160
ACROLEIN	0.016349	0.01007925		38.30	40	0.0250	0.02193	87.70	10 - 160
ACRYLONITRILE	0.138541	0.13805220		0.3530	40	0.0250	0.02491	99.60	
BENZENE	1.031844	1.044768		1.25	40	0.0050	0.005063	101	
BROMOBENZENE	1.042975	0.99161210		4.92	40	0.0050	0.004754	95.10	
BROMODICHLOROMETHANE	0.377151	0.37228030		1.29	40	0.0050	0.005297	106	
BROMOFORM	0.522598	0.527882	0.10	1.01	40	0.0050	0.005051	101	
BROMOMETHANE	0.213457	0.20254460		5.11	40	0.0050	0.004744	94.90	10 - 160
CARBON TETRACHLORIDE	0.331942	0.34866580		5.04	40	0.0050	0.005252	105	
CHLOROBENZENE	1.647451	1.641419	0.30	0.3660	40	0.0050	0.004982	99.60	
CHLORODIBROMOMETHANE	0.682885	0.68929740		0.9390	40	0.0050	0.005047	101	
CHLOROETHANE	0.200825	0.16377390		18.40	40	0.0050	0.005142	103	47 - 150
CHLOROFORM	0.488156	0.47952840		1.77	20.49	0.0050	0.005344	107	
CHLOROMETHANE	0.304113	0.28609430	0.10	5.92	40	0.0050	0.004704	94.10	
CIS-1,2-DICHLOROETHENE	0.311411	0.30088250		3.38	40	0.0050	0.005393	108	
CIS-1,3-DICHLOROPROPENE	0.421541	0.443748		5.27	40	0.0050	0.005263	105	
DI-ISOPROPYL ETHER	0.933833	0.89055150		4.63	40	0.0050	0.005444	109	
DIBROMOMETHANE	0.184292	0.177584		3.64	40	0.0050	0.004818	96.40	
DICHLORODIFLUOROMETHANE	0.345023	0.27907980		19.10	40	0.0050	0.004202	84	51 - 149
ETHYLBENZENE	0.831226	0.84530290		1.69	20.49	0.0050	0.005085	102	
HEXACHLORO-1,3-BUTADIENE	0.198634	0.21466370		8.07	40	0.0050	0.005404	108	



7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1253450	Calibration (begin) date/time:	08/19/20 21:03
Instrument ID:	VOCMS26	Calibration (end) date/time:	08/20/20 04:32
Lab File ID:	0819_20	Analysis date/time:	08/20/20 02:09
Analytical Method:	8260B	Sample ID:	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
ISOPROPYLBENZENE	2.316791	2.325643		0.3820	40	0.0050	0.005019	100	
M&P-XYLENE	1.006773	1.034049		2.71	40	0.01	0.01027	103	
METHYL TERT-BUTYL ETHER	0.767664	0.75584630		1.54	40	0.0050	0.004923	98.50	
METHYLENE CHLORIDE	0.269183	0.26907980		0.0383	40	0.0050	0.004998	100	
N-BUTYLBENZENE	1.244537	1.242859		0.1350	40	0.0050	0.004993	99.90	
N-PROPYLBENZENE	2.414168	2.492761		3.26	40	0.0050	0.005163	103	
NAPHTHALENE	1.7051	1.693003		0.7090	40	0.0050	0.004965	99.30	54 - 135
O-XYLENE	0.980325	0.99551920		1.55	40	0.0050	0.005077	102	
P-ISOPROPYLTOLUENE	1.654641	1.669182		0.8790	40	0.0050	0.005044	101	
SEC-BUTYLBENZENE	1.852646	1.860175		0.4060	40	0.0050	0.005020	100	
STYRENE	1.633890	1.702867		4.22	40	0.0050	0.005211	104	
TERT-BUTYLBENZENE	1.468899	1.456801		0.8240	40	0.0050	0.004959	99.20	
TETRACHLOROETHENE	0.491734	0.49276720		0.21	40	0.0050	0.005011	100	
TOLUENE	2.616265	2.698354		3.14	20.49	0.0050	0.005157	103	
TRANS-1,2-DICHLOROETHENE	0.300724	0.26903780		10.50	40	0.0050	0.005575	112	
TRANS-1,3-DICHLOROPROPENE	0.887309	0.90592720		2.10	40	0.0050	0.005105	102	
TRICHLOROETHENE	0.288735	0.29000210		0.4390	40	0.0050	0.005022	100	
TRICHLOROFLUOROMETHANE	0.347117	0.37697990		8.60	40	0.0050	0.005237	105	
VINYL CHLORIDE	0.292461	0.26321110		10	20.49	0.0050	0.004500	90	
XYLENES, TOTAL	0	1.014425		0	40	0.0150	0.015347	102	
1,2-DICHLOROETHANE-D4	0.308765	0.30492040		1.25	40	0.0160	0.01580	98.70	70 - 130
4-BROMOFLUOROBENZENE	0.900979	0.91899560		2	40	0.0160	0.01632	102	67 - 138
TOLUENE-D8	2.334339	2.365245		1.32	40	0.0160	0.01621	101	75 - 131

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 20.D
 Acq On : 20 Aug 2020 2:09 am
 Operator : 808
 Sample : SSCV VMS 5.0 PPB 20H19584
 Misc : soil surr/is 20G06381
 ALS Vial : 20 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 21 17:01:42 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	687035	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	295169	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.293	152	297142	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.635	96	687035	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.592	82	295169	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	8.293	152	297142	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.482	65	209491	15.8007903	ppb	0.00
Spiked Amount 16.000			Recovery	=	98.75%	
61) TOLUENE-D8	5.568	98	698147	16.2118321	ppb	0.00
Spiked Amount 16.000	Range 89 - 115		Recovery	=	101.32%	
80) 4-BROMOFLUOROBENZENE	7.445	95	271259	16.3199477	ppb	0.00
Spiked Amount 16.000	Range 70 - 129		Recovery	=	102.00%	
Target Compounds						
					Qvalue	
4) PROPENE	1.745	41	31998	4.7634618	ppb	97
5) DICHLORODIFLUOROMETHANE	1.788	85	59918	4.2015291	ppb	99
6) CHLOROMETHANE	1.971	50	61424	4.7037521	ppb	99
7) VINYL CHLORIDE	2.044	62	56511	4.4999275	ppb	98
8) 1,3-BUTADIENE	2.038	39	55707	5.3624301	ppb	85
9) BROMOMETHANE	2.300	94	43486	4.7443984	ppb	97
10) CHLOROETHANE	2.391	64	35162	5.1415261	ppb	96
11) VINYL BROMIDE	2.471	106	46393	4.5280078	ppb	92
12) TRICHLOROFLUOROMETHANE	2.477	101	80937	5.2371029	ppb	98
13) DICHLOROFLUOROMETHANE	2.519	67	102170	5.1615653	ppb	100
14) ETHYL ETHER	2.660	59	48362	5.0059237	ppb	97
15) ACROLEIN	3.019	56	10820	21.9313898	ppb	96
16) ETHANOL	2.745	45	19613	127.3929449	ppb	# 95
17) 1,1-DICHLOROETHENE	2.806	96	51528	5.6977554	ppb	97
18) 1,1,2-TRICHLOROTRIFLUO...	2.849	101	46920	5.0702404	ppb	98
19) ACETONE	3.184	43	117405	26.3855100	ppb	98
20) IODOMETHANE	2.910	142	538994	27.1629960	ppb	100
21) CARBON DISULFIDE	2.843	76	160337	5.6430262	ppb	99
22) ALLYL CHLORIDE	3.099	76	160918	26.2948036	ppb	99
23) METHYLENE CHLORIDE	3.166	84	57771	4.9980785	ppb	97
24) METHYL ACETATE	3.245	43	242242	26.7581767	ppb	# 95
25) ACRYLONITRILE	3.647	53	148198	24.9117401	ppb	100
26) n-HEXANE	3.288	56	31586	5.4973855	ppb	# 94
27) TRANS-1,2-DICHLOROETHENE	3.257	96	57762	5.5753018	ppb	99
28) METHYL TERT-BUTYL ETHER	3.306	73	162279	4.9230270	ppb	93
29) TERT-BUTYL ALCOHOL	3.336	59	38829	19.4690768	ppb	# 100
30) 1,1-DICHLOROETHANE	3.617	63	102165	5.1454863	ppb	100
31) VINYL ACETATE	3.727	43	749295	30.7739955	ppb	99
32) DI-ISOPROPYL ETHER	3.507	45	191200	5.4441336	ppb	99
33) ETHYL TERT-BUTYL ETHER	3.714	59	178598	5.2322138	ppb	96
34) 2,2-DICHLOROPROPANE	3.989	77	66320	5.2049795	ppb	98
35) CIS-1,2-DICHLOROETHENE	3.922	96	64599	5.3931534	ppb	98
36) 2-BUTANONE (MEK)	4.226	43	193566	25.0362532	ppb	99
37) BROMOCHLOROMETHANE	4.037	130	41834	5.0992688	ppb	98
38) TETRAHYDROFURAN	4.165	42	28481	5.4259658	ppb	96
39) CHLOROFORM	4.062	83	102954	5.3437577	ppb	99
40) CYCLOHEXANE	4.050	84	66392	5.5510977	ppb	95

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 20.D
 Acq On : 20 Aug 2020 2:09 am
 Operator : 808
 Sample : SSCV VMS 5.0 PPB 20H19584
 Misc : soil surr/is 20G06381
 ALS Vial : 20 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 21 17:01:42 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-TRICHLOROETHANE	4.196	97	84749	5.2170641	ppb	98
42) CARBON TETRACHLORIDE	4.159	117	74858	5.2519146	ppb	99
43) 1,1-DICHLOROPROPENE	4.263	75	73446	5.2462681	ppb	97
44) 2,2,4-TRIMETHYLPENTANE	4.306	57	85489	5.9499461	ppb	98
45) n-Heptane	4.342	71	21631	5.3077512	ppb	# 93
46) BENZENE	4.409	78	224310	5.0626267	ppb	100
47) TERT-AMYL METHYL ETHER	4.434	73	163558	4.9624814	ppb	99
49) 1,2-DICHLOROETHANE	4.519	62	76560	4.9214167	ppb	96
50) T-AMYL ALCOHOL	4.519	59	57013	29.9950758	ppb	86
51) TRICHLOROETHENE	4.732	132	62263	5.0219427	ppb	99
52) METHYL CYCLOHEXANE	4.732	83	60775	5.4198134	ppb	99
53) TERT-AMYL ETHYL ETHER	4.824	59	141451	5.3723653	ppb	99
54) 1,2-DICHLOROPROPANE	5.049	62	41654	5.2421621	ppb	97
55) DIBROMOMETHANE	4.995	93	38127	4.8180078	ppb	99
56) BROMODICHLOROMETHANE	5.068	83	79928	5.2966041	ppb	96
57) 2-CHLOROETHYL VINYL ETHER	5.385	63	204266	24.6139648	ppb	99
58) CIS-1,3-DICHLOROPROPENE	5.446	75	95272	5.2634069	ppb	99
60) 4-METHYL-2-PENTANONE (...)	5.811	43	401570	26.0475550	ppb	99
62) TOLUENE	5.598	91	248897	5.1568810	ppb	100
63) TRANS-1,3-DICHLOROPROPENE	5.848	75	83563	5.1049114	ppb	97
64) 1,1,2-TRICHLOROETHANE	5.958	97	52374	4.8965998	ppb	95
65) TETRACHLOROETHENE	5.848	164	45453	5.0105009	ppb	98
66) 1,3-DICHLOROPROPANE	6.147	76	86971	5.1662007	ppb	96
67) 2-HEXANONE	6.354	58	160179	24.9518142	ppb	99
68) CHLORODIBROMOMETHANE	6.086	129	63581	5.0469487	ppb	98
69) 1,2-DIBROMOETHANE	6.263	107	58807	5.0050450	ppb	99
70) CHLOROENZENE	6.604	112	151405	4.9816925	ppb	98
71) 1,1,1,2-TETRACHLOROETHANE	6.634	133	56194	4.9715784	ppb	# 100
72) ETHYLBENZENE	6.598	106	77971	5.0846740	ppb	94
73) M&P-XYLENE	6.695	106	190762	10.2709287	ppb	98
74) O-XYLENE	7.000	106	91827	5.0774967	ppb	100
77) STYRENE	7.037	104	157073	5.2110813	ppb	99
78) BROMOFORM	7.080	173	48692	5.0505568	ppb	96
79) ISOPROPYLBENZENE	7.220	105	214518	5.0191032	ppb	100
82) BROMOBENZENE	7.531	77	92078	4.7537658	ppb	97
83) 1,1,2,2-TETRACHLOROETHANE	7.573	83	78839	5.0575152	ppb	99
84) 1,2,3-TRICHLOROPROPANE	7.689	110	24066	5.2461949	ppb	99
85) TRANS-1,4-DICHLORO-2-B...	7.707	53	17716	4.3772387	ppb	95
86) N-PROPYLBENZENE	7.525	91	231470	5.1627752	ppb	99
87) 4-ETHYLTOLUENE	7.598	105	205838	5.4946188	ppb	99
88) 2-CHLOROTOLUENE	7.659	91	155668	5.1396135	ppb	99
89) 4-CHLOROTOLUENE	7.781	91	149658	5.0566278	ppb	99
90) 1,3,5-TRIMETHYLBENZENE	7.659	105	160618	5.0664601	ppb	98
91) TERT-BUTYLBENZENE	7.909	119	135274	4.9588188	ppb	99
92) 1,2,4-TRIMETHYLBENZENE	7.957	105	160495	5.0870116	ppb	97
93) SEC-BUTYLBENZENE	8.043	105	172730	5.0203179	ppb	99
94) 1,3-DICHLOROENZENE	8.238	146	93023	5.0803964	ppb	98
95) P-ISOPROPYLTOLUENE	8.146	119	154995	5.0439402	ppb	100
96) DICYCLOPENTADIENE	8.152	66	162743	4.3897503	ppb	100
97) 1,4-DICHLOROENZENE	8.305	146	94050	4.9589856	ppb	97
98) 1,2,3-TRIMETHYLBENZENE	8.305	105	154465	5.7361501	ppb	99
99) 1,2-DICHLOROENZENE	8.640	146	90973	5.1550545	ppb	97
100) N-BUTYLBENZENE	8.476	91	115408	4.9932567	ppb	100
101) 1,2-DIBROMO-3-CHLOROPR...	9.280	157	21355	5.1370560	ppb	93

Data Path : C:\msdchem\1\data\081920\
 Data File : 0819 20.D
 Acq On : 20 Aug 2020 2:09 am
 Operator : 808
 Sample : SSCV VMS 5.0 PPB 20H19584
 Misc : soil surr/is 20G06381
 ALS Vial : 20 Sample Multiplier: 1
 InstName : VOCMS26

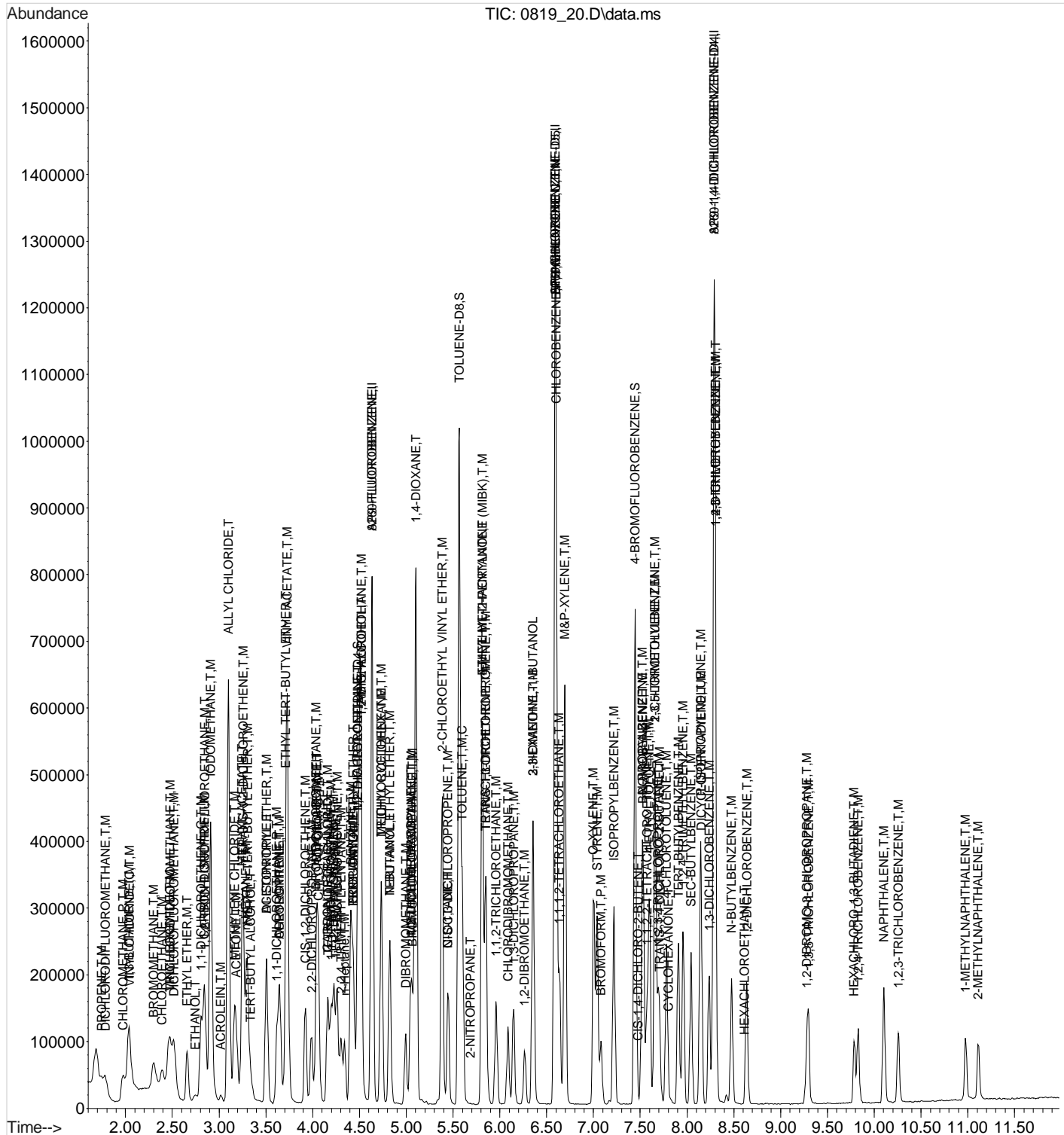
Quant Time: Aug 21 17:01:42 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
102) 1,3,5-TRICHLOROBENZENE	9.299	180	46603	5.2823239	ppb		100
103) 1,2,4-TRICHLOROBENZENE	9.829	180	41399	5.2690337	ppb		99
104) HEXACHLORO-1,3-BUTADIENE	9.786	225	19933	5.4035052	ppb		97
105) NAPHTHALENE	10.103	128	157207	4.9645276	ppb		99
106) 1,2,3-TRICHLOROBENZENE	10.256	180	39449	5.1907405	ppb		97
107) 1-METHYLNAPHTHALENE	10.975	142	54568	5.6933005	ppb		99
108) 2-METHYLNAPHTHALENE	11.109	142	46929	5.1784190	ppb		92
112) ACETONITRILE	3.507	41	29986	14.2115115	ppb	#	38
113) CHLOROPRENE	3.647	53	148538	8.4759656	ppb	#	25
114) PROPIONITRILE	4.434	54	959	0.3800007	ppb	#	1
115) ETHYL ACETATE	4.044	43	8727	0.5315093	ppb	#	70
116) METHACRYLONITRILE	4.482	67	111325	19.1636168	ppb	#	1
117) TERT-BUTYL FORMATE	4.251	59	446	0.0420714	ppb	#	13
118) ISOBUTANOL	4.434	43	54059	52.9087602	ppb	#	74
119) N-BUTANOL	4.824	56	2167	3.5454424	ppb	#	1
120) METHYL METHACRYLATE	5.049	41	30990	2.4195792	ppb	#	19
121) 1,4-DIOXANE	5.104	88	3716	25.0860662	ppb	#	39
122) N-OCTANE	5.446	85	1787	0.5144269	ppb	#	31
124) 2-NITROPROPANE	5.683	43	305	0.0577239	ppb	#	18
125) 3,3-DIMETHYL-1-BUTANOL	6.354	57	55546	25.9732771	ppb	#	43
126) ETHYL METHACRYLATE	5.811	69	4196	0.2445874	ppb	#	1
128) CIS-1,4-DICHLORO-2-BUTENE	7.476	53	1116	0.2752395	ppb	#	7
129) CYCLOHEXANONE	7.799	55	694	1.5123443	ppb	#	4
131) HEXACHLOROETHANE	8.616	117	427	0.0682624	ppb	#	81

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

Data Path : C:\msdchem\1\data\081920\
Data File : 0819 20.D
Acq On : 20 Aug 2020 2:09 am
Operator : 808
Sample : SSCV VMS 5.0 PPB 20H19584
Misc : soil surr/is 20G06381
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS26

Quant Time: Aug 21 17:01:42 2020
Quant Method : C:\msdchem\1\methods\V826H21T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 09:38:52 2020
Response via : Initial Calibration





7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG: L1253450
Instrument ID: VOCMS26
Lab File ID: 0825_02
Analytical Method: 8260B

Calibration (begin) date/time: 08/19/20 21:03
Calibration (end) date/time: 08/20/20 04:32
Analysis date/time: 08/25/20 06:40
Sample ID: ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
1,1,1,2-TETRACHLOROETHANE	0.612696	0.59354040		3.13		0.0050	0.004844	96.90	
1,1,1-TRICHLOROETHANE	0.378311	0.43564030		15.20		0.0050	0.005758	115	
1,1,2,2-TETRACHLOROETHANE	0.839382	0.79318330	0.30	5.50		0.0050	0.004725	94.50	
1,1,2-TRICHLOROETHANE	0.579790	0.55325780		4.58		0.0050	0.004771	95.40	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.196513	0.17749170		9.68		0.0050	0.004128	82.60	
1,1-DICHLOROETHANE	0.462399	0.51106350	0.10	10.50		0.0050	0.005526	111	
1,1-DICHLOROETHENE	0.225390	0.22441530		0.4320	20	0.0050	0.005325	107	80 - 120
1,1-DICHLOROPROPENE	0.326031	0.352605		8.15		0.0050	0.005408	108	
1,2,3-TRICHLOROBENZENE	0.409225	0.33272970		18.70		0.0050	0.004065	81.30	
1,2,3-TRICHLOROPROPANE	0.247011	0.25109030		1.65		0.0050	0.005083	102	
1,2,3-TRIMETHYLBENZENE	1.449992	1.317430		9.14		0.0050	0.004543	90.90	
1,2,4-TRICHLOROBENZENE	0.423073	0.37345110		11.70		0.0050	0.004414	88.30	
1,2,4-TRIMETHYLBENZENE	1.698849	1.643802		3.24		0.0050	0.004838	96.80	
1,2-DIBROMO-3-CHLOROPROPANE	0.223842	0.18324060		18.10		0.0050	0.004093	81.90	
1,2-DIBROMOETHANE	0.636899	0.62194030		2.35		0.0050	0.004883	97.70	
1,2-DICHLOROBENZENE	0.950244	0.93315950		1.80		0.0050	0.004910	98.20	
1,2-DICHLOROETHANE	0.362287	0.38870090		7.29		0.0050	0.005365	107	
1,2-DICHLOROPROPANE	0.185049	0.19615420		6	20	0.0050	0.005300	106	
1,3,5-TRIMETHYLBENZENE	1.707047	1.669150		2.22		0.0050	0.004889	97.80	
1,3-DICHLOROBENZENE	0.985936	0.96539680		2.08		0.0050	0.004896	97.90	
1,3-DICHLOROPROPANE	0.912541	0.93429270		2.38		0.0050	0.005119	102	
1,4-DICHLOROBENZENE	1.021226	0.99023660		3.03		0.0050	0.004848	97	
2,2-DICHLOROPROPANE	0.368115	0.29180240		20.70		0.0050	0.004909	98.20	
2-BUTANONE (MEK)	0.180053	0.18764990		4.22		0.0250	0.02605	104	
2-CHLOROTOLUENE	1.630891	1.637537		0.4080		0.0050	0.005020	100	
4-CHLOROTOLUENE	1.593657	1.552303		2.59		0.0050	0.004870	97.40	
4-METHYL-2-PENTANONE (MIBK)	0.835687	0.87667970		4.91		0.0250	0.02623	105	
ACETONE	0.123636	0.09151742		26		0.0250	0.02187	87.50	
ACROLEIN	0.016349	0.01933095		18.20		0.0250	0.04195	168	
ACRYLONITRILE	0.138541	0.14677260		5.94		0.0250	0.02649	106	
BENZENE	1.031844	1.087088		5.35		0.0050	0.005268	105	
BROMOBENZENE	1.042975	0.97139590		6.86		0.0050	0.004657	93.10	
BROMODICHLOROMETHANE	0.377151	0.37128860		1.55		0.0050	0.005282	106	
BROMOFORM	0.522598	0.466432	0.10	10.70		0.0050	0.004463	89.30	
BROMOMETHANE	0.213457	0.22920410		7.38		0.0050	0.005369	107	
CARBON TETRACHLORIDE	0.331942	0.36014830		8.50		0.0050	0.005425	109	
CHLOROBENZENE	1.647451	1.657067	0.30	0.5840		0.0050	0.005029	101	
CHLORODIBROMOMETHANE	0.682885	0.64550810		5.47		0.0050	0.004726	94.50	
CHLOROETHANE	0.200825	0.17275060		14		0.0050	0.005431	109	
CHLOROFORM	0.488156	0.50484440		3.42	20	0.0050	0.005629	113	80 - 120
CHLOROMETHANE	0.304113	0.32572110	0.10	7.11		0.0050	0.005355	107	
CIS-1,2-DICHLOROETHENE	0.311411	0.30295330		2.72		0.0050	0.005431	109	
CIS-1,3-DICHLOROPROPENE	0.421541	0.42614760		1.09		0.0050	0.005055	101	
DI-ISOPROPYL ETHER	0.933833	0.95331480		2.09		0.0050	0.005830	117	
DIBROMOMETHANE	0.184292	0.18830880		2.18		0.0050	0.005109	102	
DICHLORODIFLUOROMETHANE	0.345023	0.29322210		15		0.0050	0.004416	88.30	
ETHYLBENZENE	0.831226	0.81430450		2.04	20	0.0050	0.004898	98	
HEXACHLORO-1,3-BUTADIENE	0.198634	0.17281460		13		0.0050	0.004350	87	



GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1253450	Calibration (begin) date/time:	08/19/20 21:03
Instrument ID:	VOCMS26	Calibration (end) date/time:	08/20/20 04:32
Lab File ID:	0825_02	Analysis date/time:	08/25/20 06:40
Analytical Method:	8260B	Sample ID:	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
ISOPROPYLBENZENE	2.316791	2.216226		4.34		0.0050	0.004783	95.70	
M&P-XYLENE	1.006773	0.99078460		1.59		0.01	0.009841	98.40	
METHYL TERT-BUTYL ETHER	0.767664	0.78328170		2.03		0.0050	0.005102	102	
METHYLENE CHLORIDE	0.269183	0.276917		2.87		0.0050	0.005144	103	
N-BUTYLBENZENE	1.244537	1.161491		6.67		0.0050	0.004666	93.30	
N-PROPYLBENZENE	2.414168	2.431761		0.7290		0.0050	0.005036	101	
NAPHTHALENE	1.7051	1.363179		20.10		0.0050	0.003997	79.90	
O-XYLENE	0.980325	0.96682760		1.38		0.0050	0.004931	98.60	
P-ISOPROPYLTOLUENE	1.654641	1.591256		3.83		0.0050	0.004808	96.20	
SEC-BUTYLBENZENE	1.852646	1.747565		5.67		0.0050	0.004716	94.30	
STYRENE	1.633890	1.605576		1.73		0.0050	0.004913	98.30	
TERT-BUTYLBENZENE	1.468899	1.420880		3.27		0.0050	0.004837	96.70	
TETRACHLOROETHENE	0.491734	0.47095040		4.23		0.0050	0.004789	95.80	
TOLUENE	2.616265	2.606855		0.36	20	0.0050	0.004982	99.60	
TRANS-1,2-DICHLOROETHENE	0.300724	0.27327240		9.13		0.0050	0.005665	113	
TRANS-1,3-DICHLOROPROPENE	0.887309	0.82133190		7.44		0.0050	0.004628	92.60	
TRICHLOROETHENE	0.288735	0.30914580		7.07		0.0050	0.005353	107	
TRICHLOROFLUOROMETHANE	0.347117	0.35214940		1.45		0.0050	0.004894	97.90	
VINYL CHLORIDE	0.292461	0.28798310		1.53	20	0.0050	0.004923	98.50	
XYLENES, TOTAL	0	0.97799590		0		0.0150	0.014772	98.50	
1,2-DICHLOROETHANE-D4	0.308765	0.317602		2.86		0.0160	0.01646	103	70 - 130
4-BROMOFLUOROBENZENE	0.900979	0.91246270		1.27		0.0160	0.01620	101	70 - 130
TOLUENE-D8	2.334339	2.296097		1.64		0.0160	0.01574	98.40	70 - 130

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 02.D
 Acq On : 25 Aug 2020 6:40 am
 Operator : 1006
 Sample : ICVLCS VMS 5.0 ppb
 Misc : soil
 ALS Vial : 2 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 25 14:04:44 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	604080	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	275494	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.293	152	276847	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.635	96	604080	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.592	82	275494	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	8.293	152	276847	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.483	65	191857	16.4579407	ppb	0.00
Spiked Amount 16.000			Recovery	= 102.86%		
61) TOLUENE-D8	5.568	98	632561	15.7378801	ppb	0.00
Spiked Amount 16.000	Range 89 - 115		Recovery	= 98.36%		
80) 4-BROMOFLUOROBENZENE	7.445	95	251378	16.2039342	ppb	0.00
Spiked Amount 16.000	Range 70 - 129		Recovery	= 101.27%		
Target Compounds						
					Qvalue	
4) PROPENE	1.745	41	17763	3.2211694	ppb	97
5) DICHLORODIFLUOROMETHANE	1.782	85	55353	4.4156486	ppb	99
6) CHLOROMETHANE	1.971	50	61488	5.3552666	ppb	97
7) VINYL CHLORIDE	2.038	62	54364	4.9234364	ppb	99
8) 1,3-BUTADIENE	2.038	39	39471	4.3212999	ppb	87
9) BROMOMETHANE	2.300	94	43268	5.3688703	ppb	96
10) CHLOROETHANE	2.392	64	32611	5.4311171	ppb	95
11) VINYL BROMIDE	2.471	106	49650	5.5304846	ppb	96
12) TRICHLOROFLUOROMETHANE	2.477	101	66477	4.8935341	ppb	99
13) DICHLOROFLUOROMETHANE	2.514	67	101552	5.8462940	ppb	99
14) ETHYL ETHER	2.660	59	42928	5.0536485	ppb	96
15) ACROLEIN	3.019	56	18246	41.9488014	ppb	98
16) ETHANOL	2.751	45	14041	104.9058610	ppb	# 85
17) 1,1-DICHLOROETHENE	2.806	96	42364	5.3250277	ppb	90
18) 1,1,2-TRICHLOROTRIFLUO...	2.849	101	33506	4.1276738	ppb	99
19) ACETONE	3.190	43	86381	21.8684653	ppb	95
20) IODOMETHANE	2.910	142	478493	27.4254481	ppb	96
21) CARBON DISULFIDE	2.843	76	128348	5.1374998	ppb	98
22) ALLYL CHLORIDE	3.099	76	139536	25.9319980	ppb	94
23) METHYLENE CHLORIDE	3.166	84	52275	5.1436527	ppb	92
24) METHYL ACETATE	3.251	43	217583	27.3348339	ppb	# 98
25) ACRYLONITRILE	3.647	53	138535	26.4853451	ppb	97
26) n-HEXANE	3.294	56	21136	4.1785967	ppb	# 93
27) TRANS-1,2-DICHLOROETHENE	3.257	96	51587	5.6654014	ppb	96
28) METHYL TERT-BUTYL ETHER	3.306	73	147864	5.1017216	ppb	89
29) TERT-BUTYL ALCOHOL	3.343	59	29701	16.9373175	ppb	# 100
30) 1,1-DICHLOROETHANE	3.617	63	96476	5.5262176	ppb	99
31) VINYL ACETATE	3.727	43	576989	26.9515030	ppb	99
32) DI-ISOPROPYL ETHER	3.507	45	179962	5.8304699	ppb	99
33) ETHYL TERT-BUTYL ETHER	3.715	59	163966	5.4632000	ppb	96
34) 2,2-DICHLOROPROPANE	3.989	77	55085	4.9087845	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.922	96	57190	5.4307503	ppb	95
36) 2-BUTANONE (MEK)	4.227	43	177118	26.0547772	ppb	98
37) BROMOCHLOROMETHANE	4.038	130	39246	5.4407443	ppb	99
38) TETRAHYDROFURAN	4.166	42	21958	4.7577213	ppb	# 95
39) CHLOROFORM	4.062	83	95302	5.6286494	ppb	100
40) CYCLOHEXANE	4.050	84	44530	4.2274862	ppb	96

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 02.D
 Acq On : 25 Aug 2020 6:40 am
 Operator : 1006
 Sample : ICVLCS VMS 5.0 ppb
 Misc : soil
 ALS Vial : 2 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 25 14:04:44 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-TRICHLOROETHANE	4.196	97	82238	5.7576934	ppb	97
42) CARBON TETRACHLORIDE	4.160	117	67987	5.4248747	ppb	99
43) 1,1-DICHLOROPROPENE	4.263	75	66563	5.4075385	ppb	95
44) 2,2,4-TRIMETHYLPENTANE	4.306	57	44971	3.5597520	ppb	95
45) n-Heptane	4.342	71	11592	3.2350183	ppb	# 92
46) BENZENE	4.409	78	205215	5.2676969	ppb	97
47) TERT-AMYL METHYL ETHER	4.434	73	151940	5.2430455	ppb	98
49) 1,2-DICHLOROETHANE	4.519	62	73377	5.3645410	ppb	100
50) T-AMYL ALCOHOL	4.525	59	36265	21.6994215	ppb	98
51) TRICHLOROETHENE	4.733	132	58359	5.3534526	ppb	98
52) METHYL CYCLOHEXANE	4.739	83	37978	3.8547208	ppb	96
53) TERT-AMYL ETHYL ETHER	4.824	59	120822	5.2190317	ppb	99
54) 1,2-DICHLOROPROPANE	5.050	62	37029	5.3000519	ppb	95
55) DIBROMOMETHANE	4.995	93	35548	5.1089828	ppb	97
56) BROMODICHLOROMETHANE	5.068	83	70090	5.2823778	ppb	96
57) 2-CHLOROETHYL VINYL ETHER	5.385	63	196597	26.9430516	ppb	100
58) CIS-1,3-DICHLOROPROPENE	5.446	75	80446	5.0546434	ppb	99
60) 4-METHYL-2-PENTANONE (...)	5.812	43	377375	26.2263244	ppb	96
62) TOLUENE	5.598	91	224429	4.9820149	ppb	100
63) TRANS-1,3-DICHLOROPROPENE	5.848	75	70710	4.6282161	ppb	99
64) 1,1,2-TRICHLOROETHANE	5.958	97	47631	4.7711950	ppb	98
65) TETRACHLOROETHENE	5.854	164	40545	4.7886654	ppb	99
66) 1,3-DICHLOROPROPANE	6.147	76	80435	5.1191809	ppb	98
67) 2-HEXANONE	6.354	58	141715	23.6521688	ppb	95
68) CHLORODIBROMOMETHANE	6.086	129	55573	4.7263293	ppb	99
69) 1,2-DIBROMOETHANE	6.269	107	53544	4.8825688	ppb	95
70) CHLOROBENZENE	6.604	112	142660	5.0291839	ppb	98
71) 1,1,1,2-TETRACHLOROETHANE	6.635	133	51099	4.8436789	ppb	# 100
72) ETHYLBENZENE	6.598	106	70105	4.8982123	ppb	98
73) M&P-XYLENE	6.696	106	170597	9.8411950	ppb	99
74) O-XYLENE	7.007	106	83236	4.9311595	ppb	98
77) STYRENE	7.037	104	138227	4.9133510	ppb	98
78) BROMOFORM	7.080	173	40156	4.4626281	ppb	98
79) ISOPROPYLBENZENE	7.220	105	190799	4.7829636	ppb	99
82) BROMOBENZENE	7.531	77	84040	4.6568492	ppb	98
83) 1,1,2,2-TETRACHLOROETHANE	7.574	83	68622	4.7248028	ppb	99
84) 1,2,3-TRICHLOROPROPANE	7.689	110	21723	5.0825836	ppb	96
85) TRANS-1,4-DICHLORO-2-B...	7.708	53	13910	3.6898182	ppb	# 83
86) N-PROPYLBENZENE	7.525	91	210383	5.0364366	ppb	99
87) 4-ETHYLTOLUENE	7.598	105	172533	4.9432026	ppb	99
88) 2-CHLOROTOLUENE	7.659	91	141671	5.0203766	ppb	99
89) 4-CHLOROTOLUENE	7.781	91	134297	4.8702537	ppb	100
90) 1,3,5-TRIMETHYLBENZENE	7.659	105	144406	4.8889981	ppb	99
91) TERT-BUTYLBENZENE	7.909	119	122927	4.8365469	ppb	99
92) 1,2,4-TRIMETHYLBENZENE	7.958	105	142213	4.8379875	ppb	98
93) SEC-BUTYLBENZENE	8.043	105	151190	4.7164011	ppb	99
94) 1,3-DICHLOROBENZENE	8.238	146	83521	4.8958394	ppb	99
95) P-ISOPROPYLTOLUENE	8.147	119	137667	4.8084634	ppb	98
96) DICYCLOPENTADIENE	8.153	66	167846	4.8592889	ppb	98
97) 1,4-DICHLOROBENZENE	8.305	146	85670	4.8482727	ppb	98
98) 1,2,3-TRIMETHYLBENZENE	8.305	105	113977	4.5428862	ppb	99
99) 1,2-DICHLOROBENZENE	8.640	146	80732	4.9101039	ppb	97
100) N-BUTYLBENZENE	8.476	91	100486	4.6663548	ppb	98
101) 1,2-DIBROMO-3-CHLOROPR...	9.280	157	15853	4.0930816	ppb	97

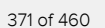
Data Path : C:\msdchem\1\data\082520\
Data File : 0825 02.D
Acq On : 25 Aug 2020 6:40 am
Operator : 1006
Sample : ICVLCS VMS 5.0 ppb
Misc : soil
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS26

Quant Time: Aug 25 14:04:44 2020
Quant Method : C:\msdchem\1\methods\V826H21T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 09:38:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) 1,3,5-TRICHLOROBENZENE	9.299	180	37871	4.6072539	ppb	97
103) 1,2,4-TRICHLOROBENZENE	9.829	180	32309	4.4135582	ppb	100
104) HEXACHLORO-1,3-BUTADIENE	9.786	225	14951	4.3500813	ppb	97
105) NAPHTHALENE	10.103	128	117935	3.9973574	ppb	99
106) 1,2,3-TRICHLOROBENZENE	10.262	180	28786	4.0653586	ppb	99
107) 1-METHYLNAPHTHALENE	10.975	142	30117	3.3725780	ppb	97
108) 2-METHYLNAPHTHALENE	11.109	142	27719	3.2829001	ppb	92

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

Quant Time: Aug 25 14:04:44 2020
Quant Method : C:\msdchem\1\methods\V826H21T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 09:38:52 2020
Response via : Initial Calibration





7E-OR

REPORTING LEVEL VERIFICATION SINGLE COMPONENT ANALYTES

SDG: L1253450
Instrument ID: VOCMS7
Lab File ID: 0825_05
Analytical Method: 8260B

Calibration (begin) date/time: 07/07/20 16:02
Calibration (end) date/time: 07/08/20 02:22
Analysis date/time: 08/25/20 01:23
Sample ID: RL

Analyte	True Value mg/l	Result mg/l	Result % Rec.	Limits %
1,1,1,2-TETRACHLOROETHANE	0.0010	0.001080	108	60 - 140
1,1,1-TRICHLOROETHANE	0.0010	0.0009113	91.10	60 - 140
1,1,2,2-TETRACHLOROETHANE	0.0010	0.001006	101	60 - 140
1,1,2-TRICHLOROETHANE	0.0010	0.001046	105	60 - 140
1,1,2-TRICHLOROTRIFLUOROETHANE	0.0010	0.001121	112	60 - 140
1,1-DICHLOROETHANE	0.0010	0.001001	100	60 - 140
1,1-DICHLOROETHENE	0.0010	0.0009285	92.80	60 - 140
1,1-DICHLOROPROPENE	0.0010	0.0009312	93.10	60 - 140
1,2,3-TRICHLOROBENZENE	0.0010	0.0004546	45.50	60 - 140
1,2,3-TRICHLOROPROPANE	0.0010	0.001138	114	60 - 140
1,2,3-TRIMETHYLBENZENE	0.0010	0.0007852	78.50	60 - 140
1,2,4-TRICHLOROBENZENE	0.0010	0.0005451	54.50	60 - 140
1,2,4-TRIMETHYLBENZENE	0.0010	0.0006182	61.80	60 - 140
1,2-DIBROMO-3-CHLOROPROPANE	0.0010	0.0004911	49.10	60 - 140
1,2-DIBROMOETHANE	0.0010	0.0008093	80.90	60 - 140
1,2-DICHLOROBENZENE	0.0010	0.0009273	92.70	60 - 140
1,2-DICHLOROETHANE	0.0010	0.0009517	95.20	60 - 140
1,2-DICHLOROPROPANE	0.0010	0.0008266	82.70	60 - 140
1,3,5-TRIMETHYLBENZENE	0.0010	0.0008088	80.90	60 - 140
1,3-DICHLOROBENZENE	0.0010	0.0007025	70.30	60 - 140
1,3-DICHLOROPROPANE	0.0010	0.0009220	92.20	60 - 140
1,4-DICHLOROBENZENE	0.0010	0.0008323	83.20	60 - 140
2,2-DICHLOROPROPANE	0.0010	0.0005061	50.60	60 - 140
2-BUTANONE (MEK)	0.0050	0.0001278	2.56	60 - 140
2-CHLOROTOLUENE	0.0010	0.0007572	75.70	60 - 140
4-CHLOROTOLUENE	0.0010	0.0005941	59.40	60 - 140
4-METHYL-2-PENTANONE (MIBK)	0.0050	0.003490	69.80	60 - 140
ACETONE	0.0050	0.003027	60.50	60 - 140
ACROLEIN	0.0050	0.002523	50.50	60 - 140
ACRYLONITRILE	0.0050	0.001582	31.60	60 - 140
BENZENE	0.0010	0.001019	102	60 - 140
BROMOBENZENE	0.0010	0.0009326	93.30	60 - 140
BROMODICHLOROMETHANE	0.0010	0.0009007	90.10	60 - 140
BROMOFORM	0.0010	0.0008617	86.20	60 - 140
CARBON TETRACHLORIDE	0.0010	0.0008986	89.90	60 - 140
CHLOROBENZENE	0.0010	0.0009486	94.90	60 - 140
CHLORODIBROMOMETHANE	0.0010	0.0009696	97	60 - 140
CHLOROETHANE	0.0010	0.001032	103	60 - 140
CHLOROFORM	0.0010	0.0008755	87.50	60 - 140
CHLOROMETHANE	0.0010	0.0007278	72.80	60 - 140
CIS-1,2-DICHLOROETHENE	0.0010	0.0009194	91.90	60 - 140
CIS-1,3-DICHLOROPROPENE	0.0010	0.0006583	65.80	60 - 140
DI-ISOPROPYL ETHER	0.0010	0.0009326	93.30	60 - 140
DIBROMOMETHANE	0.0010	0.001094	109	60 - 140
DICHLORODIFLUOROMETHANE	0.0010	0.001060	106	60 - 140
ETHYLBENZENE	0.0010	0.0007181	71.80	60 - 140
HEXACHLORO-1,3-BUTADIENE	0.0010	0.0006069	60.70	60 - 140
ISOPROPYLBENZENE	0.0010	0.0007456	74.60	60 - 140

REPORTING LEVEL VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1253450	Calibration (begin) date/time:	07/07/20 16:02
Instrument ID:	VOCMS7	Calibration (end) date/time:	07/08/20 02:22
Lab File ID:	0825_05	Analysis date/time:	08/25/20 01:23
Analytical Method:	8260B	Sample ID:	RL

Analyte	True Value <i>mg/l</i>	Result <i>mg/l</i>	Result <i>% Rec.</i>	Limits <i>%</i>
M&P-XYLENE	0.0020	0.001243	62.20	60 - 140
METHYL TERT-BUTYL ETHER	0.0010	0.0009158	91.60	60 - 140
METHYLENE CHLORIDE	0.0010	0.001078	108	60 - 140
N-BUTYLBENZENE	0.0010	0.0004617	46.20	60 - 140
N-PROPYLBENZENE	0.0010	0.0007957	79.60	60 - 140
NAPHTHALENE	0.0010	0.0005013	50.10	60 - 140
O-XYLENE	0.0010	0.0007071	70.70	60 - 140
P-ISOPROPYLTOLUENE	0.0010	0.0006342	63.40	60 - 140
SEC-BUTYLBENZENE	0.0010	0.0007367	73.70	60 - 140
STYRENE	0.0010	0.0005027	50.30	60 - 140
TERT-BUTYLBENZENE	0.0010	0.0007385	73.80	60 - 140
TETRACHLOROETHENE	0.0010	0.0008368	83.70	60 - 140
TOLUENE	0.0010	0.0009439	94.40	60 - 140
TRANS-1,2-DICHLOROETHENE	0.0010	0.0009518	95.20	60 - 140
TRANS-1,3-DICHLOROPROPENE	0.0010	0.0003163	31.60	60 - 140
TRICHLOROETHENE	0.0010	0.0009231	92.30	60 - 140
TRICHLOROFLUOROMETHANE	0.0010	0.0009078	90.80	60 - 140
VINYL CHLORIDE	0.0010	0.0009754	97.50	60 - 140

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_05.D
 Acq On : 25 Aug 2020 1:23 am
 Operator : 808
 Sample : RL VMS 1 PPB
 Misc : water
 ALS Vial : 61 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:56:34 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.392	96	231795	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.315	82	92791	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.665	152	75090	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.392	96	230192	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.315	82	92791	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.665	152	75090	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.246	65	67664	15.0003940	ppb	0.00
Spiked Amount	16.000		Recovery	=	93.75%	
61) TOLUENE-D8	5.305	98	237529	15.7138190	ppb	0.00
Spiked Amount	16.000	Range 90 - 115	Recovery	=	98.21%	
80) 4-BROMOFLUOROBENZENE	7.154	95	76943	14.5304419	ppb	0.00
Spiked Amount	16.000	Range 80 - 120	Recovery	=	90.82%	
Target Compounds						
					Qvalue	
4) PROPENE	1.600	41	3075	0.8999388	ppb	98
5) DICHLORODIFLUOROMETHANE	1.637	85	8984	1.0600949	ppb	100
6) CHLOROMETHANE	1.825	50	6647	0.7277924	ppb	97
7) VINYL CHLORIDE	1.862	62	6966	0.9753728	ppb	# 81
8) 1,3-BUTADIENE	1.874	39	6690	1.2240432	ppb	90
9) BROMOMETHANE	2.105	94	2121	Below Cal	#	97
10) CHLOROETHANE	2.190	64	5490	1.0319489	ppb	# 80
11) VINYL BROMIDE	2.275	106	5404	1.1744444	ppb	96
12) TRICHLOROFLUOROMETHANE	2.287	101	8366	0.9078496	ppb	97
13) DICHLOROFLUOROMETHANE	2.324	67	11713	1.0463616	ppb	# 87
14) ETHYL ETHER	2.494	59	3081	0.9195112	ppb	94
15) ACROLEIN	2.890	56	1556	2.5228240	ppb	96
16) ETHANOL	2.610	45	1106	14.3535148	ppb	# 41
17) 1,1-DICHLOROETHENE	2.622	96	4193	0.9285085	ppb	90
18) 1,1,2-TRICHLOROTRIFLUO...	2.640	101	5188	1.1205488	ppb	# 91
19) ACETONE	3.018	43	7045	3.0271361	ppb	# 77
20) IODOMETHANE	2.725	142	4949	0.5930518	ppb	# 90
21) CARBON DISULFIDE	2.665	76	13554	0.9951397	ppb	96
22) ALLYL CHLORIDE	2.908	76	12058	4.6533321	ppb	90
23) METHYLENE CHLORIDE	2.969	84	5447	1.0775729	ppb	97
24) METHYL ACETATE	3.072	43	11336	2.7584038	ppb	# 96
25) ACRYLONITRILE	3.486	53	4124	1.5821920	ppb	# 72
26) n-HEXANE	3.091	56	2788	0.8487571	ppb	# 78
27) TRANS-1,2-DICHLOROETHENE	3.066	96	4711	0.9517516	ppb	98
28) METHYL TERT-BUTYL ETHER	3.109	73	12842	0.9158149	ppb	89
29) TERT-BUTYL ALCOHOL	3.145	59	4787	4.2204096	ppb	# 100
30) 1,1-DICHLOROETHANE	3.407	63	9279	1.0006757	ppb	100
31) VINYL ACETATE	3.498	43	998	0.1130899	ppb	# 76
32) DI-ISOPROPYL ETHER	3.303	45	14341	0.9325720	ppb	89
33) ETHYL TERT-BUTYL ETHER	3.498	59	12559	0.8859237	ppb	97
34) 2,2-DICHLOROPROPANE	3.760	77	4096	0.5061028	ppb	100
35) CIS-1,2-DICHLOROETHENE	3.711	96	5100	0.9193916	ppb	96
36) 2-BUTANONE (MEK)	3.967	43	451	0.1277895	ppb	# 1
37) BROMOCHLOROMETHANE	3.821	130	3151	1.0575288	ppb	87
38) TETRAHYDROFURAN	3.954	42	2078	0.8034931	ppb	93
39) CHLOROFORM	3.839	83	8929	0.8755174	ppb	98
40) CYCLOHEXANE	3.821	84	6196	0.8993675	ppb	90
41) 1,1,1-TRICHLOROETHANE	3.960	97	7720	0.9113227	ppb	95

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_05.D
 Acq On : 25 Aug 2020 1:23 am
 Operator : 808
 Sample : RL VMS 1 PPB
 Misc : water
 ALS Vial : 61 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:56:34 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
42) CARBON TETRACHLORIDE	3.930	117	7060	0.8986198	ppb		98
43) 1,1-DICHLOROPROPENE	4.040	75	6231	0.9311876	ppb		96
44) 2,2,4-TRIMETHYLPENTANE	4.064	57	6388	0.7620443	ppb	#	85
45) n-Heptane	4.119	71	1192	0.5160928	ppb	#	1
46) BENZENE	4.173	78	21714	1.0194741	ppb	#	90
47) TERT-AMYL METHYL ETHER	4.204	73	11921	0.8215935	ppb	#	94
49) 1,2-DICHLOROETHANE	4.289	62	6044	0.9517318	ppb		98
50) T-AMYL ALCOHOL	4.301	59	3360	3.3714506	ppb		97
51) TRICHLOROETHENE	4.502	132	5318	0.9230770	ppb	#	90
52) METHYL CYCLOHEXANE	4.490	83	5532	0.7807469	ppb	#	75
53) TERT-AMYL ETHYL ETHER	4.581	59	8733	0.8504250	ppb		91
54) 1,2-DICHLOROPROPANE	4.800	62	2735	0.8266159	ppb		82
55) DIBROMOMETHANE	4.757	93	3263	1.0944639	ppb		88
56) BROMODICHLOROMETHANE	4.824	83	6217	0.9006943	ppb	#	90
57) 2-CHLOROETHYL VINYL ETHER	5.153	63	8722	2.5062381	ppb	#	90
58) CIS-1,3-DICHLOROPROPENE	5.202	75	4861	0.6583048	ppb	#	84
60) 4-METHYL-2-PENTANONE (...)	5.554	43	26713	3.4904206	ppb		99
62) TOLUENE	5.341	91	21570	0.9438681	ppb		92
63) TRANS-1,3-DICHLOROPROPENE	5.615	75	1956	0.3163375	ppb	#	94
64) 1,1,2-TRICHLOROETHANE	5.700	97	4674	1.0464914	ppb		99
65) TETRACHLOROETHENE	5.591	164	4091	0.8368065	ppb		88
66) 1,3-DICHLOROPROPANE	5.883	76	6233	0.9219872	ppb		99
67) 2-HEXANONE	6.114	58	6422	2.1629924	ppb		97
68) CHLORODIBROMOMETHANE	5.828	129	5222	0.9696027	ppb		97
69) 1,2-DIBROMOETHANE	6.023	107	3842	0.8092709	ppb	#	78
70) CHLOROBENZENE	6.327	112	13338	0.9486066	ppb		96
71) 1,1,1,2-TETRACHLOROETHANE	6.351	133	5128	1.0798982	ppb	#	100
72) ETHYLBENZENE	6.327	106	5489	0.7181194	ppb		85
73) M&P-XYLENE	6.424	106	12139	1.2432926	ppb	#	69
74) O-XYLENE	6.728	106	6613	0.7070602	ppb		96
77) STYRENE	6.795	104	6953	0.5027486	ppb	#	86
78) BROMOFORM	6.808	173	3896	0.8616620	ppb		95
79) ISOPROPYLBENZENE	6.935	105	17509	0.7456293	ppb		98
82) BROMOBENZENE	7.233	77	7772	0.9325834	ppb		96
83) 1,1,2,2-TETRACHLOROETHANE	7.264	83	6753	1.0062783	ppb		94
84) 1,2,3-TRICHLOROPROPANE	7.349	110	2199	1.1377923	ppb	#	59
85) TRANS-1,4-DICHLORO-2-B...	7.325	53	368	0.2094334	ppb	#	1
86) N-PROPYLBENZENE	7.227	91	18813	0.7957380	ppb		95
87) 4-ETHYLTOLUENE	7.288	105	10398	0.5884132	ppb	#	85
88) 2-CHLOROTOLUENE	7.331	91	10639	0.7572363	ppb	#	89
89) 4-CHLOROTOLUENE	7.422	91	7454	0.5940903	ppb	#	83
90) 1,3,5-TRIMETHYLBENZENE	7.325	105	13426	0.8088326	ppb		96
91) TERT-BUTYLBENZENE	7.471	119	10494	0.7384636	ppb		94
92) 1,2,4-TRIMETHYLBENZENE	7.507	105	8416	0.6181883	ppb		95
93) SEC-BUTYLBENZENE	7.544	105	12484	0.7366843	ppb		100
94) 1,3-DICHLOROBENZENE	7.647	146	5195	0.7025496	ppb		95
95) P-ISOPROPYLTOLUENE	7.592	119	8750	0.6342296	ppb		99
96) DICYCLOPENTADIENE	7.592	66	11360	0.7005250	ppb	#	88
97) 1,4-DICHLOROBENZENE	7.671	146	7028	0.8323383	ppb	#	1
98) 1,2,3-TRIMETHYLBENZENE	7.671	105	8448	0.7852144	ppb		91
99) 1,2-DICHLOROBENZENE	7.842	146	7039	0.9272887	ppb	#	89
100) N-BUTYLBENZENE	7.775	91	5381	0.4616865	ppb		98
101) 1,2-DIBROMO-3-CHLOROPR...	8.134	157	957	0.4910693	ppb	#	61
102) 1,3,5-TRICHLOROBENZENE	8.146	180	3223	0.6557782	ppb		98
103) 1,2,4-TRICHLOROBENZENE	8.389	180	2224	0.5451181	ppb	#	82

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_05.D
Acq On : 25 Aug 2020 1:23 am
Operator : 808
Sample : RL VMS 1 PPB
Misc : water
ALS Vial : 61 Sample Multiplier: 1
InstName : VOCMS7

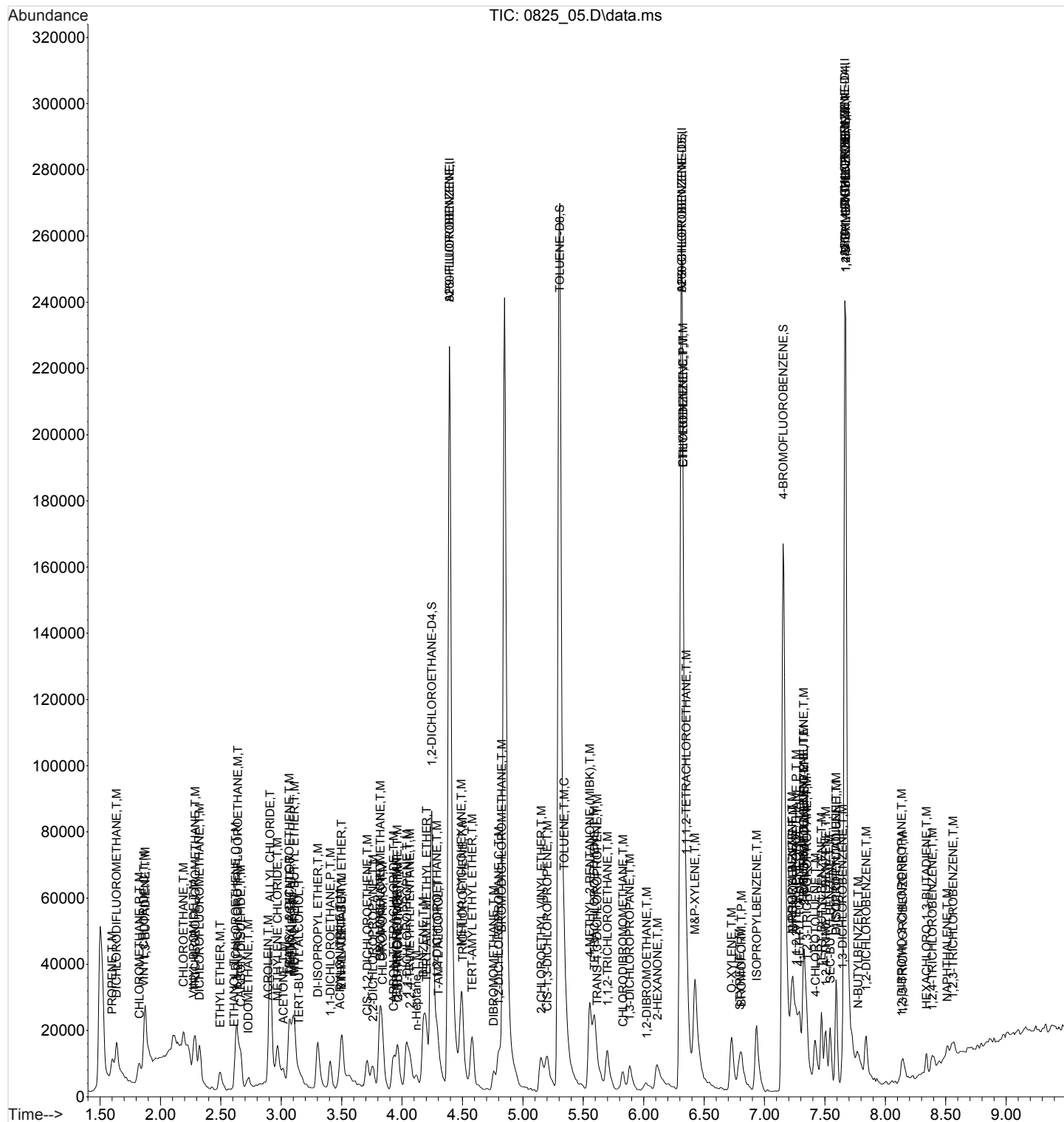
Quant Time: Aug 25 10:56:34 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
104) HEXACHLORO-1,3-BUTADIENE	8.341	225	1224	0.6069300	ppb		91
105) NAPHTHALENE	8.511	128	6402	0.5012603	ppb	#	82
106) 1,2,3-TRICHLOROBENZENE	8.560	180	1697	0.4545583	ppb		99

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

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_05.D
Acq On : 25 Aug 2020 1:23 am
Operator : 808
Sample : RL VMS 1 PPB
Misc : water
ALS Vial : 61 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Aug 25 10:56:34 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration





7E-OR

REPORTING LEVEL VERIFICATION SINGLE COMPONENT ANALYTES

SDG:	L1253450	Calibration (begin) date/time:	08/19/20 21:03
Instrument ID:	VOCMS26	Calibration (end) date/time:	08/20/20 04:32
Lab File ID:	0825_05	Analysis date/time:	08/25/20 07:42
Analytical Method:	8260B	Sample ID:	RL

Analyte	True Value mg/l	Result mg/l	Result % Rec.	Limits %
1,1,1,2-TETRACHLOROETHANE	0.0010	0.0009499	95	60 - 140
1,1,1-TRICHLOROETHANE	0.0010	0.001101	110	60 - 140
1,1,2,2-TETRACHLOROETHANE	0.0010	0.0009308	93.10	60 - 140
1,1,2-TRICHLOROETHANE	0.0010	0.0009715	97.10	60 - 140
1,1,2-TRICHLOROTRIFLUOROETHANE	0.0010	0.0009124	91.20	60 - 140
1,1-DICHLOROETHANE	0.0010	0.001110	111	60 - 140
1,1-DICHLOROETHENE	0.0010	0.001036	104	60 - 140
1,1-DICHLOROPROPENE	0.0010	0.001080	108	60 - 140
1,2,3-TRICHLOROBENZENE	0.0010	0.0008627	86.30	60 - 140
1,2,3-TRICHLOROPROPANE	0.0010	0.001099	110	60 - 140
1,2,3-TRIMETHYLBENZENE	0.0010	0.0009322	93.20	60 - 140
1,2,4-TRICHLOROBENZENE	0.0010	0.0009020	90.20	60 - 140
1,2,4-TRIMETHYLBENZENE	0.0010	0.0009653	96.50	60 - 140
1,2-DIBROMO-3-CHLOROPROPANE	0.0010	0.0007734	77.30	60 - 140
1,2-DIBROMOETHANE	0.0010	0.0009254	92.50	60 - 140
1,2-DICHLOROBENZENE	0.0010	0.001002	100	60 - 140
1,2-DICHLOROETHANE	0.0010	0.001041	104	60 - 140
1,2-DICHLOROPROPANE	0.0010	0.001068	107	60 - 140
1,3,5-TRIMETHYLBENZENE	0.0010	0.001040	104	60 - 140
1,3-DICHLOROBENZENE	0.0010	0.0009697	97	60 - 140
1,3-DICHLOROPROPANE	0.0010	0.001011	101	60 - 140
1,4-DICHLOROBENZENE	0.0010	0.001047	105	60 - 140
2,2-DICHLOROPROPANE	0.0010	0.0008725	87.30	60 - 140
2-BUTANONE (MEK)	0.0050	0.005027	101	60 - 140
2-CHLOROTOLUENE	0.0010	0.001053	105	60 - 140
4-CHLOROTOLUENE	0.0010	0.001018	102	60 - 140
4-METHYL-2-PENTANONE (MIBK)	0.0050	0.005242	105	60 - 140
ACETONE	0.0050	0.003596	71.90	60 - 140
ACROLEIN	0.0050	0.007084	142	60 - 140
ACRYLONITRILE	0.0050	0.005323	106	60 - 140
BENZENE	0.0010	0.001065	106	60 - 140
BROMOBENZENE	0.0010	0.001012	101	60 - 140
BROMODICHLOROMETHANE	0.0010	0.001038	104	60 - 140
BROMOFORM	0.0010	0.0008383	83.80	60 - 140
BROMOMETHANE	0.0010	0.001041	104	60 - 140
CARBON TETRACHLORIDE	0.0010	0.001088	109	60 - 140
CHLOROBENZENE	0.0010	0.001009	101	60 - 140
CHLORODIBROMOMETHANE	0.0010	0.0009431	94.30	60 - 140
CHLOROETHANE	0.0010	0.0009881	98.80	60 - 140
CHLOROFORM	0.0010	0.001088	109	60 - 140
CHLOROMETHANE	0.0010	0.001056	106	60 - 140
CIS-1,2-DICHLOROETHENE	0.0010	0.001061	106	60 - 140
CIS-1,3-DICHLOROPROPENE	0.0010	0.0009793	97.90	60 - 140
DI-ISOPROPYL ETHER	0.0010	0.001172	117	60 - 140
DIBROMOMETHANE	0.0010	0.0009754	97.50	60 - 140
DICHLORODIFLUOROMETHANE	0.0010	0.0009084	90.80	60 - 140
ETHYLBENZENE	0.0010	0.0009981	99.80	60 - 140
HEXACHLORO-1,3-BUTADIENE	0.0010	0.001051	105	60 - 140



REPORTING LEVEL VERIFICATION SINGLE COMPONENT ANALYTES

SDG:	L1253450	Calibration (begin) date/time:	08/19/20 21:03
Instrument ID:	VOCMS26	Calibration (end) date/time:	08/20/20 04:32
Lab File ID:	0825_05	Analysis date/time:	08/25/20 07:42
Analytical Method:	8260B	Sample ID:	RL

Analyte	True Value <i>mg/l</i>	Result <i>mg/l</i>	Result % Rec.	Limits %
ISOPROPYLBENZENE	0.0010	0.0009781	97.80	60 - 140
M&P-XYLENE	0.0020	0.002011	101	60 - 140
METHYL TERT-BUTYL ETHER	0.0010	0.001024	102	60 - 140
METHYLENE CHLORIDE	0.0010	0.001151	115	60 - 140
N-BUTYLBENZENE	0.0010	0.0009838	98.40	60 - 140
N-PROPYLBENZENE	0.0010	0.001018	102	60 - 140
NAPHTHALENE	0.0010	0.0008121	81.20	60 - 140
O-XYLENE	0.0010	0.001006	101	60 - 140
P-ISOPROPYLTOLUENE	0.0010	0.0009790	97.90	60 - 140
SEC-BUTYLBENZENE	0.0010	0.001002	100	60 - 140
STYRENE	0.0010	0.0009751	97.50	60 - 140
TERT-BUTYLBENZENE	0.0010	0.0009691	96.90	60 - 140
TETRACHLOROETHENE	0.0010	0.001006	101	60 - 140
TOLUENE	0.0010	0.001043	104	60 - 140
TRANS-1,2-DICHLOROETHENE	0.0010	0.001044	104	60 - 140
TRANS-1,3-DICHLOROPROPENE	0.0010	0.0009314	93.10	60 - 140
TRICHLOROETHENE	0.0010	0.001120	112	60 - 140
TRICHLOROFLUOROMETHANE	0.0010	0.001052	105	60 - 140
VINYL CHLORIDE	0.0010	0.0009207	92.10	60 - 140

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 05.D
 Acq On : 25 Aug 2020 7:42 am
 Operator : 1006
 Sample : RL VMS 1 ppb
 Misc : soil
 ALS Vial : 5 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 25 14:05:51 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) 8260-FLUOROBENZENE	4.635	96	603240	16.0000000	ppb	0.00	
59) 8260-CHLOROBENZENE-D5	6.592	82	274424	16.0000000	ppb	0.00	
81) 8260-1,4-DICHLOROBENZE...	8.293	152	270506	16.0000000	ppb	0.00	
109) AP9-FLUOROBENZENE	4.635	96	603240	16.0000000	ppb	0.00	
123) AP9-CHLOROBENZENE-D5	6.592	82	274424	16.0000000	ppb	0.00	
127) AP9-1,4-DICHLOROBENZEN...	8.293	152	270506	16.0000000	ppb	0.00	
System Monitoring Compounds							
48) 1,2-DICHLOROETHANE-D4	4.482	65	190601	16.3729654	ppb	0.00	
Spiked Amount	16.000		Recovery	=	102.33%		
61) TOLUENE-D8	5.568	98	629318	15.7182441	ppb	0.00	
Spiked Amount	16.000	Range 89 - 115	Recovery	=	98.24%		
80) 4-BROMOFLUOROBENZENE	7.445	95	248706	16.0942047	ppb	0.00	
Spiked Amount	16.000	Range 70 - 129	Recovery	=	100.59%		
Target Compounds							
					Qvalue		
4) PROPENE	1.739	41	2525	0.9557166	ppb #	85	
5) DICHLORODIFLUOROMETHANE	1.782	85	11608	0.9084498	ppb	94	
6) CHLOROMETHANE	1.971	50	12105	1.0557470	ppb	97	
7) VINYL CHLORIDE	2.038	62	10152	0.9206888	ppb #	97	
8) 1,3-BUTADIENE	2.038	39	7946	0.8711424	ppb #	77	
9) BROMOMETHANE	2.300	94	8381	1.0413968	ppb	99	
10) CHLOROETHANE	2.391	64	6603	0.9881229	ppb #	87	
11) VINYL BROMIDE	2.471	106	10447	1.0957789	ppb	97	
12) TRICHLOROFLUOROMETHANE	2.477	101	14041	1.0515919	ppb	98	
13) DICHLOROFLUOROMETHANE	2.519	67	20332	1.1020915	ppb	92	
14) ETHYL ETHER	2.660	59	8779	1.0349366	ppb	95	
15) ACROLEIN	3.019	56	3335	7.0836108	ppb	97	
16) ETHANOL	2.757	45	3375	30.0768411	ppb #	50	
17) 1,1-DICHLOROETHENE	2.806	96	8496	1.0362045	ppb	90	
18) 1,1,2-TRICHLOROTRIFLUO...	2.849	101	7064	0.9124219	ppb	94	
19) ACETONE	3.190	43	18200	3.5956663	ppb	98	
20) IODOMETHANE	2.910	142	96326	5.5287378	ppb	96	
21) CARBON DISULFIDE	2.843	76	25805	1.0343581	ppb	98	
22) ALLYL CHLORIDE	3.099	76	26968	5.0188334	ppb	92	
23) METHYLENE CHLORIDE	3.166	84	11683	1.1511616	ppb	96	
24) METHYL ACETATE	3.251	43	41480	5.2183662	ppb #	98	
25) ACRYLONITRILE	3.647	53	27804	5.3230155	ppb	96	
26) n-HEXANE	3.294	56	4480	0.8698462	ppb #	99	
27) TRANS-1,2-DICHLOROETHENE	3.257	96	10574	1.0444387	ppb	98	
28) METHYL TERT-BUTYL ETHER	3.306	73	29626	1.0236032	ppb	94	
29) TERT-BUTYL ALCOHOL	3.342	59	6446	3.6810201	ppb #	100	
30) 1,1-DICHLOROETHANE	3.617	63	19358	1.1103848	ppb	99	
31) VINYL ACETATE	3.733	43	105847	4.9510617	ppb	97	
32) DI-ISOPROPYL ETHER	3.507	45	37043	1.1719486	ppb	99	
33) ETHYL TERT-BUTYL ETHER	3.714	59	32490	1.0840451	ppb	99	
34) 2,2-DICHLOROPROPANE	3.983	77	11091	0.8725127	ppb	97	
35) CIS-1,2-DICHLOROETHENE	3.922	96	11743	1.0613035	ppb	99	
36) 2-BUTANONE (MEK)	4.233	43	34128	5.0273582	ppb	100	
37) BROMOCHLOROMETHANE	4.037	130	7625	1.0585396	ppb	100	
38) TETRAHYDROFURAN	4.165	42	5503	1.1940158	ppb #	91	
39) CHLOROFORM	4.062	83	19102	1.0877302	ppb	98	
40) CYCLOHEXANE	4.050	84	9568	0.8864627	ppb	86	

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 05.D
 Acq On : 25 Aug 2020 7:42 am
 Operator : 1006
 Sample : RL VMS 1 ppb
 Misc : soil
 ALS Vial : 5 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 25 14:05:51 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-TRICHLOROETHANE	4.196	97	15700	1.1007279	ppb	99
42) CARBON TETRACHLORIDE	4.159	117	13617	1.0880519	ppb	99
43) 1,1-DICHLOROPROPENE	4.263	75	13271	1.0796294	ppb	93
44) 2,2,4-TRIMETHYLPENTANE	4.300	57	12576	0.9968597	ppb	92
45) n-Heptane	4.342	71	2779	0.7766248	ppb	# 99
46) BENZENE	4.409	78	41414	1.0645429	ppb	97
47) TERT-AMYL METHYL ETHER	4.434	73	29852	1.0315476	ppb	# 93
49) 1,2-DICHLOROETHANE	4.525	62	14218	1.0409154	ppb	100
50) T-AMYL ALCOHOL	4.525	59	7543	4.5196927	ppb	88
51) TRICHLOROETHENE	4.732	132	12194	1.1201512	ppb	100
52) METHYL CYCLOHEXANE	4.739	83	9438	0.9665839	ppb	92
53) TERT-AMYL ETHYL ETHER	4.824	59	24525	1.0608580	ppb	99
54) 1,2-DICHLOROPROPANE	5.049	62	7453	1.0682517	ppb	94
55) DIBROMOMETHANE	4.995	93	6777	0.9753513	ppb	98
56) BROMODICHLOROMETHANE	5.068	83	14215	1.0379816	ppb	# 98
57) 2-CHLOROETHYL VINYL ETHER	5.385	63	37328	5.1228182	ppb	99
58) CIS-1,3-DICHLOROPROPENE	5.446	75	15564	0.9792907	ppb	96
60) 4-METHYL-2-PENTANONE (...)	5.811	43	75131	5.2417165	ppb	96
62) TOLUENE	5.598	91	46783	1.0425675	ppb	99
63) TRANS-1,3-DICHLOROPROPENE	5.848	75	14175	0.9314208	ppb	# 98
64) 1,1,2-TRICHLOROETHANE	5.964	97	9661	0.9715152	ppb	93
65) TETRACHLOROETHENE	5.854	164	8488	1.0064046	ppb	97
66) 1,3-DICHLOROPROPANE	6.147	76	15830	1.0114080	ppb	96
67) 2-HEXANONE	6.354	58	27971	4.6865494	ppb	96
68) CHLORODIBROMOMETHANE	6.086	129	11046	0.9430945	ppb	98
69) 1,2-DIBROMOETHANE	6.269	107	10109	0.9254135	ppb	98
70) CHLOROBENZENE	6.604	112	28512	1.0090508	ppb	# 88
71) 1,1,1,2-TETRACHLOROETHANE	6.635	133	9982	0.9498840	ppb	# 100
72) ETHYLBENZENE	6.598	106	14229	0.9980517	ppb	100
73) M&P-XYLENE	6.695	106	34730	2.0112742	ppb	96
74) O-XYLENE	7.006	106	16913	1.0058855	ppb	97
77) STYRENE	7.043	104	27326	0.9751042	ppb	100
78) BROMOFORM	7.080	173	7514	0.8383039	ppb	98
79) ISOPROPYLBENZENE	7.220	105	38867	0.9781198	ppb	100
82) BROMOBENZENE	7.531	77	17852	1.0124088	ppb	99
83) 1,1,2,2-TETRACHLOROETHANE	7.573	83	13209	0.9307931	ppb	97
84) 1,2,3-TRICHLOROPROPANE	7.695	110	4589	1.0988685	ppb	88
85) TRANS-1,4-DICHLORO-2-B...	7.707	53	2011	0.5514295	ppb	93
86) N-PROPYLBENZENE	7.525	91	41559	1.0182179	ppb	98
87) 4-ETHYLTOLUENE	7.598	105	34123	1.0005674	ppb	97
88) 2-CHLOROTOLUENE	7.659	91	29026	1.0527020	ppb	97
89) 4-CHLOROTOLUENE	7.781	91	27438	1.0183584	ppb	98
90) 1,3,5-TRIMETHYLBENZENE	7.659	105	30005	1.0396596	ppb	97
91) TERT-BUTYLBENZENE	7.909	119	24067	0.9691098	ppb	97
92) 1,2,4-TRIMETHYLBENZENE	7.957	105	27725	0.9652947	ppb	98
93) SEC-BUTYLBENZENE	8.043	105	31389	1.0021392	ppb	99
94) 1,3-DICHLOROBENZENE	8.238	146	16163	0.9696531	ppb	96
95) P-ISOPROPYLTOLUENE	8.146	119	27388	0.9790383	ppb	99
96) DICYCLOPENTADIENE	8.153	66	34349	1.0177444	ppb	96
97) 1,4-DICHLOROBENZENE	8.305	146	18080	1.0471758	ppb	# 1
98) 1,2,3-TRIMETHYLBENZENE	8.305	105	22853	0.9322251	ppb	99
99) 1,2-DICHLOROBENZENE	8.640	146	16099	1.0020901	ppb	95
100) N-BUTYLBENZENE	8.476	91	20701	0.9838445	ppb	96
101) 1,2-DIBROMO-3-CHLOROPR...	9.280	157	2927	0.7734364	ppb	89

Data Path : C:\msdchem\1\data\082520\
Data File : 0825 05.D
Acq On : 25 Aug 2020 7:42 am
Operator : 1006
Sample : RL VMS 1 ppb
Misc : soil
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS26

Quant Time: Aug 25 14:05:51 2020
Quant Method : C:\msdchem\1\methods\V826H21T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 09:38:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) 1,3,5-TRICHLOROBENZENE	9.299	180	7602	0.9465121	ppb	95
103) 1,2,4-TRICHLOROBENZENE	9.829	180	6452	0.9020334	ppb	95
104) HEXACHLORO-1,3-BUTADIENE	9.786	225	3530	1.0511501	ppb	93
105) NAPHTHALENE	10.109	128	23411	0.8121068	ppb	98
106) 1,2,3-TRICHLOROBENZENE	10.262	180	5969	0.8627442	ppb	95
107) 1-METHYLNAPHTHALENE	10.981	142	6537	0.7491895	ppb	98
108) 2-METHYLNAPHTHALENE	11.115	142	7530	0.9127209	ppb	98

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

Quant Time: Aug 25 14:05:51 2020
Quant Method : C:\msdchem\1\methods\V826H21T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 09:38:52 2020
Response via : Initial Calibration





8B-OR

ANALYTICAL SEQUENCE

SDG: L1253450
Instrument ID: VOCMS7

Analytical Method: 8260B
Calibration Start Date: 07/07/20 16:02
Calibration End Date: 07/08/20 02:22

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
TUNE	VOCMS70707200707_01506236	0707_01	07/07/20 14:42		
CAL	0.04	0707_05	07/07/20 16:02		
CAL	0.1	0707_06	07/07/20 16:22		
CAL	0.2	0707_07	07/07/20 16:42		
CAL	0.5	0707_08	07/07/20 17:02		
CAL	1	0707_09	07/07/20 17:22		
CAL	5.0	0707_11	07/07/20 18:02		
CAL	25	0707_12	07/07/20 18:22		
CAL	75	0707_13	07/07/20 18:42		
CAL	100	0707_14	07/07/20 19:02		
CAL	200	0707_15	07/07/20 19:22		
CAL	1A	0707_22	07/07/20 21:42		
CAL	5A	0707_23	07/07/20 22:02		
CAL	10A	0707_24	07/07/20 22:22		
CAL	15A	0707_25	07/07/20 22:42		
CAL	20A	0707_26	07/07/20 23:02		
TUNE	VOCMS70707200707_29506236	0707_29	07/08/20 00:02		
CAL	5	0707_31	07/08/20 00:42		
CAL	10	0707_32	07/08/20 01:02		
CAL	50	0707_33	07/08/20 01:22		
CAL	100	0707_34	07/08/20 01:42		
CAL	500	0707_35	07/08/20 02:02		
CAL	1000	0707_36	07/08/20 02:22		
SSCV	VOCMS70707200707_43506236	0707_43	07/08/20 10:50		
TUNE	VOCMS70825200825_01T506236	0825_01T	08/25/20 00:04		
ICV	VOCMS70825200825_02506236	0825_02	08/25/20 00:24		
LCS	R3563464-1	0825_02LCSA	08/25/20 00:24	1	WG1531636
LCS	R3563465-1	0825_02LCS	08/25/20 00:24	1	WG1531654
TUNE	VOCMS70825200825_02T506236	0825_02T	08/25/20 00:24		
LCSD	R3563464-2	0825_03A	08/25/20 00:43	1	WG1531636
LCSD	R3563465-2	0825_03	08/25/20 00:43	1	WG1531654
RL	VOCMS70825200825_05506236	0825_05	08/25/20 01:23		
BLANK	R3563464-3	0825_06	08/25/20 01:42	1	WG1531636
BLANK	R3563465-3	0825_06A	08/25/20 01:42	1	WG1531654
L1253449-01	L1253449-01	0825_13	08/25/20 04:19	1	WG1531654
L1253449-02	L1253449-02	0825_14	08/25/20 04:39	1	WG1531654
L1253449-03	L1253449-03	0825_15	08/25/20 04:58	1	WG1531654
MW-01S	L1253450-01	0825_16	08/25/20 05:18	1	WG1531654
MW-01I	L1253450-02	0825_17	08/25/20 05:38	1	WG1531654
MW-01D	L1253450-03	0825_18	08/25/20 05:57	1	WG1531654
MW-5I	L1253450-04	0825_19	08/25/20 06:17	1	WG1531654
MW-10S	L1253450-05	0825_20	08/25/20 06:37	1	WG1531654
MW-10I	L1253450-06	0825_21	08/25/20 06:56	1	WG1531654
MW-13I	L1253450-07	0825_22	08/25/20 07:16	1	WG1531654
DUP-1	L1253450-08	0825_23	08/25/20 07:36	1	WG1531654
DUP-2	L1253450-09	0825_24	08/25/20 07:55	1	WG1531654
MW-11I	L1253450-10	0825_25	08/25/20 08:15	1	WG1531654
MW-12S	L1253450-11	0825_26	08/25/20 08:35	1	WG1531654
MW-12I	L1253450-12	0825_27	08/25/20 08:55	1	WG1531654
MS	R3563465-4	0825_31	08/25/20 10:13	1	WG1531654
MSD	R3563465-5	0825_32	08/25/20 10:33	1	WG1531654

SDG:	L1253450	Analytical Method:	8260B
Instrument ID:	VOCMS7	Calibration Start Date:	07/07/20 16:02
		Calibration End Date:	07/08/20 02:22

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
TUNE	VOCMS70825200825_33T506236	0825_33T	08/25/20 11:44		



8B-OR

ANALYTICAL SEQUENCE

SDG:	L1253450	Analytical Method:	8260B
Instrument ID:	VOCMS26	Calibration Start Date:	08/19/20 21:03
		Calibration End Date:	08/20/20 04:32

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
TUNE	VOCMS260819200819_01510339	0819_01	08/19/20 19:42		
CAL	0.04	0819_05	08/19/20 21:03		
CAL	0.1	0819_06	08/19/20 21:23		
CAL	0.2	0819_07	08/19/20 21:44		
CAL	0.5	0819_08	08/19/20 22:04		
CAL	1	0819_09	08/19/20 22:25		
CAL	2	0819_10	08/19/20 22:45		
CAL	5.0	0819_11	08/19/20 23:05		
CAL	25	0819_12	08/19/20 23:26		
CAL	75	0819_13	08/19/20 23:46		
CAL	100	0819_14	08/20/20 00:07		
CAL	200	0819_15	08/20/20 00:27		
SSCV	VOCMS260819200819_20510339	0819_20	08/20/20 02:09		
CAL	1A	0819_23	08/20/20 03:11		
CAL	5A	0819_24	08/20/20 03:31		
CAL	10A	0819_25	08/20/20 03:51		
CAL	15A	0819_26	08/20/20 04:12		
CAL	20A	0819_27	08/20/20 04:32		
TUNE	VOCMS260825200825_01T510339	0825_01T	08/25/20 06:20		
ICV	VOCMS260825200825_02510339	0825_02	08/25/20 06:40		
LCS	R3563552-1	0825_02LCS	08/25/20 06:40	1	WG1531771
LCS	R3564126-1	0825_02LCSA	08/25/20 06:40	1	WG1531794
LCS	R3564127-1	0825_02LCSB	08/25/20 06:40	1	WG1531882
LCSD	R3563552-2	0825_03	08/25/20 07:01	1	WG1531771
LCSD	R3564126-2	0825_03A	08/25/20 07:01	1	WG1531794
LCSD	R3564127-2	0825_03B	08/25/20 07:01	1	WG1531882
RL	VOCMS260825200825_05510339	0825_05	08/25/20 07:42		
BLANK	R3563552-3	0825_06	08/25/20 08:03	1	WG1531771
BLANK	R3564126-4	0825_06A	08/25/20 08:03	1	WG1531794
BLANK	R3564127-4	0825_06B	08/25/20 08:03	1	WG1531882
TRIP BLANK	L1253450-17	0825_07	08/25/20 10:08	1	WG1531771
OS	L1253654-01	0825_09	08/25/20 10:49		
L1253576-01	L1253576-01	0825_10	08/25/20 11:09	2000	WG1531771
TUNE	VOCMS260825200825_11T510339	0825_11T	08/25/20 11:30		
MW-17S	L1253450-13	0825_18	08/25/20 13:51	1	WG1531771
MW-17I	L1253450-14	0825_19	08/25/20 14:12	1	WG1531771
MW-14S	L1253450-15	0825_20	08/25/20 14:32	1	WG1531771
MW-16I	L1253450-16	0825_21	08/25/20 14:52	1	WG1531771
L1253456-01	L1253456-01	0825_27	08/25/20 17:12	1	WG1531771
L1252427-12	L1252427-12	0825_28	08/25/20 17:32	250	WG1531794
L1252427-14	L1252427-14	0825_29	08/25/20 17:53	500	WG1531794
MS	R3563552-5	0825_31	08/25/20 18:33	5	WG1531771
MSD	R3563552-6	0825_32	08/25/20 18:54	5	WG1531771



Lab Sample IDs:

L1253450-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17

Analytical Method:

8260B

Matrix:

GW

Prep Method:

8260B

Analyte	CAS	MDL mg/l	RDL mg/l
n-Butylbenzene	104-51-8	0.000157	0.0010
sec-Butylbenzene	135-98-8	0.000125	0.0010
tert-Butylbenzene	98-06-6	0.000127	0.0010
Carbon tetrachloride	56-23-5	0.000128	0.0010
Chlorobenzene	108-90-7	0.000116	0.0010
Chlorodibromomethane	124-48-1	0.000140	0.0010
Chloroethane	75-00-3	0.000192	0.0050
Chloroform	67-66-3	0.000111	0.0050
Chloromethane	74-87-3	0.000960	0.0025
Acetone	67-64-1	0.0113	0.05
2-Chlorotoluene	95-49-8	0.000106	0.0010
4-Chlorotoluene	106-43-4	0.000114	0.0010
1,2-Dibromo-3-Chloropropane	96-12-8	0.000276	0.0050
1,2-Dibromoethane	106-93-4	0.000126	0.0010
Dibromomethane	74-95-3	0.000122	0.0010
1,2-Dichlorobenzene	95-50-1	0.000107	0.0010
1,3-Dichlorobenzene	541-73-1	0.000110	0.0010
1,4-Dichlorobenzene	106-46-7	0.000120	0.0010
Dichlorodifluoromethane	75-71-8	0.000374	0.0050
1,1-Dichloroethane	75-34-3	0.0001	0.0010
Acrolein	107-02-8	0.002540	0.05
1,2-Dichloroethane	107-06-2	0.00008190	0.0010
1,1-Dichloroethene	75-35-4	0.000188	0.0010
cis-1,2-Dichloroethene	156-59-2	0.000126	0.0010
trans-1,2-Dichloroethene	156-60-5	0.000149	0.0010
1,2-Dichloropropane	78-87-5	0.000149	0.0010
1,1-Dichloropropene	563-58-6	0.000142	0.0010
1,3-Dichloropropane	142-28-9	0.000110	0.0010
cis-1,3-Dichloropropene	10061-01-5	0.000111	0.0010
trans-1,3-Dichloropropene	10061-02-6	0.000118	0.0010
2,2-Dichloropropane	594-20-7	0.000161	0.0010
Acrylonitrile	107-13-1	0.000671	0.01
Di-isopropyl ether	108-20-3	0.000105	0.0010
Ethylbenzene	100-41-4	0.000137	0.0010
Hexachloro-1,3-butadiene	87-68-3	0.000337	0.0010
Isopropylbenzene	98-82-8	0.000105	0.0010
p-Isopropyltoluene	99-87-6	0.000120	0.0010
2-Butanone (MEK)	78-93-3	0.001190	0.01
Methylene Chloride	75-09-2	0.000430	0.0050
4-Methyl-2-pentanone (MIBK)	108-10-1	0.000478	0.01
Methyl tert-butyl ether	1634-04-4	0.000101	0.0010
Naphthalene	91-20-3	0.0010	0.0050
Benzene	71-43-2	0.00009410	0.0010
n-Propylbenzene	103-65-1	0.00009930	0.0010
Styrene	100-42-5	0.000118	0.0010
1,1,1,2-Tetrachloroethane	630-20-6	0.000147	0.0010
1,1,2,2-Tetrachloroethane	79-34-5	0.000133	0.0010
1,1,2-Trichlorotrifluoroethane	76-13-1	0.000180	0.0010
Tetrachloroethene	127-18-4	0.0003	0.0010
Toluene	108-88-3	0.000278	0.0010

Lab Sample IDs:	L1253450-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17	Analytical Method:	8260B
Matrix:	GW	Prep Method:	8260B

Analyte	CAS	MDL <i>mg/l</i>	RDL <i>mg/l</i>
1,2,3-Trichlorobenzene	87-61-6	0.000230	0.0010
1,2,4-Trichlorobenzene	120-82-1	0.000481	0.0010
1,1,1-Trichloroethane	71-55-6	0.000149	0.0010
Bromobenzene	108-86-1	0.000118	0.0010
1,1,2-Trichloroethane	79-00-5	0.000158	0.0010
Trichloroethene	79-01-6	0.000190	0.0010
Trichlorofluoromethane	75-69-4	0.000160	0.0050
1,2,3-Trichloropropane	96-18-4	0.000237	0.0025
1,2,4-Trimethylbenzene	95-63-6	0.000322	0.0010
1,2,3-Trimethylbenzene	526-73-8	0.000104	0.0010
1,3,5-Trimethylbenzene	108-67-8	0.000104	0.0010
Vinyl chloride	75-01-4	0.000234	0.0010
Xylenes, Total	1330-20-7	0.000174	0.0030
Bromodichloromethane	75-27-4	0.000136	0.0010
Bromoform	75-25-2	0.000129	0.0010
Bromomethane	74-83-9	0.000605	0.0050

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: R3563465-3
Client Sample ID: BLANK
Lab File ID: 0825_06A
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%):

SDG: L1253450
Collected Date/Time: _____
Received Date/Time: _____
Preparation Date/Time: 08/25/20 01:42
Analysis Date/Time: 08/25/20 01:42
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	U		0.0113	0.0500
Acrolein	107-02-8	0	U		0.00254	0.0500
Acrylonitrile	107-13-1	0	U		0.000671	0.0100
Benzene	71-43-2	0	U		0.0000941	0.00100
Bromobenzene	108-86-1	0	U		0.000118	0.00100
Bromodichloromethane	75-27-4	0	U		0.000136	0.00100
Bromoform	75-25-2	0	U		0.000129	0.00100
Bromomethane	74-83-9	0	U		0.000605	0.00500
n-Butylbenzene	104-51-8	0	U		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	U		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	U		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	U		0.000128	0.00100
Chlorobenzene	108-90-7	0	U		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	U		0.000140	0.00100
Chloroethane	75-00-3	0	U		0.000192	0.00500
Chloroform	67-66-3	0	U		0.000111	0.00500
Chloromethane	74-87-3	0	U		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	U		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	U		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	U		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	U		0.000126	0.00100
Dibromomethane	74-95-3	0	U		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	U		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	U		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	U		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	U		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	U		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	U		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	U		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	U		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	U		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	U		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	U		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	U		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	U		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	U		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	U		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	U		0.000105	0.00100
Ethylbenzene	100-41-4	0	U		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	U		0.000337	0.00100
Isopropylbenzene	98-82-8	0	U		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	U		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	U		0.00119	0.0100

Lab Sample ID:	R3563465-3	SDG:	L1253450
Client Sample ID:	BLANK	Collected Date/Time:	
Lab File ID:	0825_06A	Received Date/Time:	
Instrument ID:	VOCMS7	Preparation Date/Time:	08/25/20 01:42
Analytical Batch:	WG1531654	Analysis Date/Time:	08/25/20 01:42
Dilution Factor:	1	Prep Method:	8260B
Analytical Method:	8260B	Sample Vol Used:	5 mL
Matrix:	GW	Initial Wt/Vol:	
Total Solids (%):		Final Wt/Vol:	5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	U		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	U		0.000101	0.00100
Naphthalene	91-20-3	0	U		0.00100	0.00500
n-Propylbenzene	103-65-1	0	U		0.0000993	0.00100
Styrene	100-42-5	0	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	U		0.000133	0.00100
Tetrachloroethene	127-18-4	0	U		0.000300	0.00100
Toluene	108-88-3	0	U		0.000278	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	U		0.000180	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	U		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	U		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	U		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	U		0.000158	0.00100
Trichloroethene	79-01-6	0	U		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	U		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	U		0.000237	0.00250
1,2,3-Trimethylbenzene	526-73-8	0	U		0.000104	0.00100
1,2,4-Trimethylbenzene	95-63-6	0	U		0.000322	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	U		0.000104	0.00100
Vinyl chloride	75-01-4	0	U		0.000234	0.00100
Xylenes, Total	1330-20-7	0	U		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_06.D
 Acq On : 25 Aug 2020 1:42 am
 Operator : 808
 Sample : BLANK 1x WG1531636
 Misc : water
 ALS Vial : 62 Sample Multiplier: 1
 InstName : VOCMS7

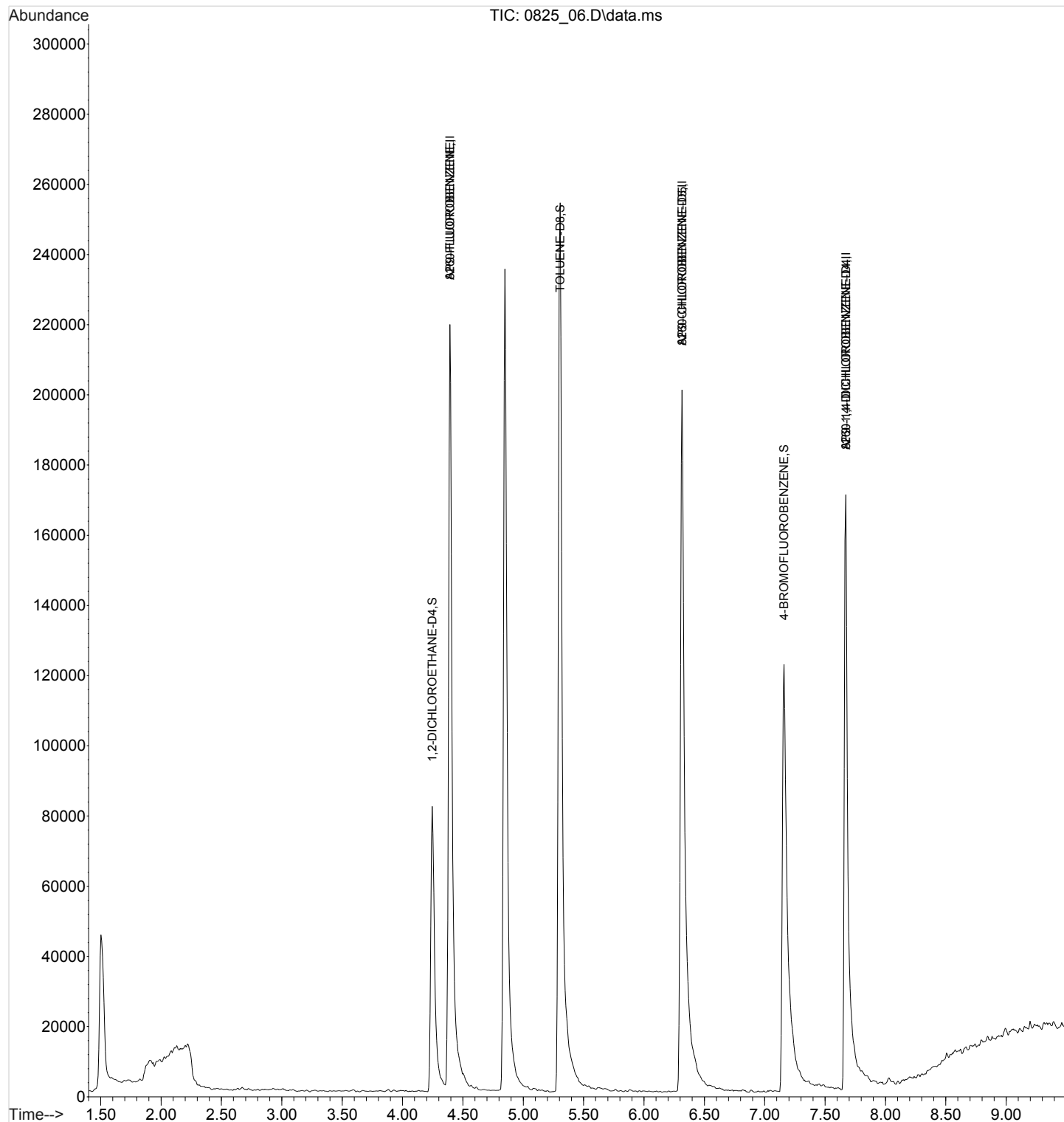
Quant Time: Aug 25 10:41:59 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

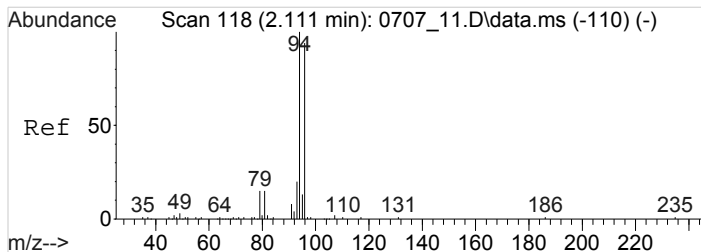
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	225885	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.315	82	84681	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.672	152	71156	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.393	96	224038	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.315	82	84681	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.672	152	71156	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.247	65	69331	15.7720859	ppb	0.00
Spiked Amount 16.000			Recovery	=	98.58%	
61) TOLUENE-D8	5.305	98	231185	16.7588662	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	104.74%	
80) 4-BROMOFLUOROBENZENE	7.161	95	74908	15.5009312	ppb	0.01
Spiked Amount 16.000	Range	80 - 120	Recovery	=	96.88%	
Target Compounds						
9) BROMOMETHANE	2.111	94	223	Below Cal	#	11
10) CHLOROETHANE	2.227	64	411	Below Cal	#	1

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

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_06.D
Acq On : 25 Aug 2020 1:42 am
Operator : 808
Sample : BLANK 1x WG1531636
Misc : water
ALS Vial : 62 Sample Multiplier: 1
InstName : VOCMS7

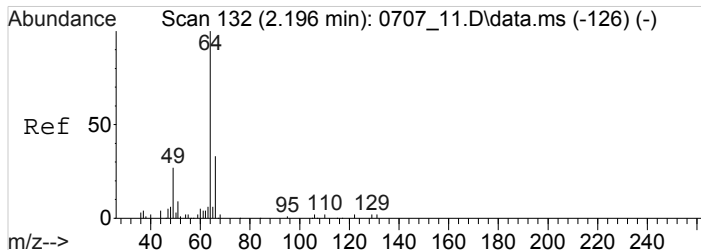
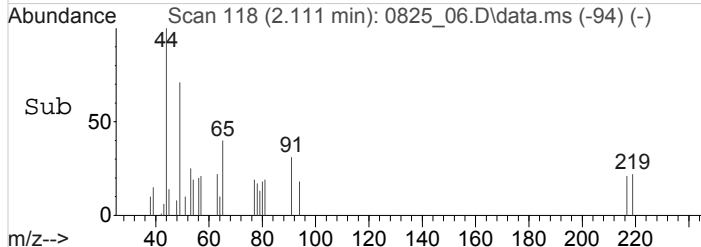
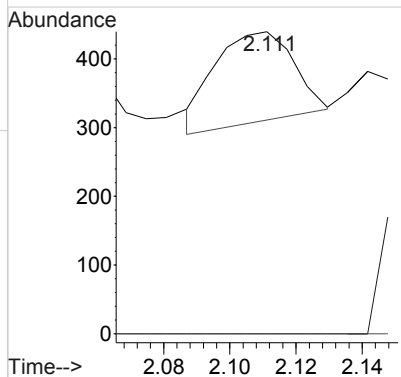
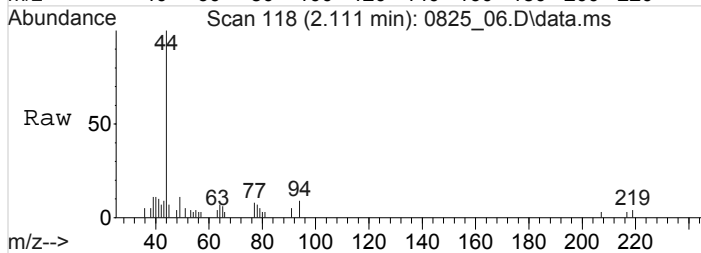
Quant Time: Aug 25 10:41:59 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration





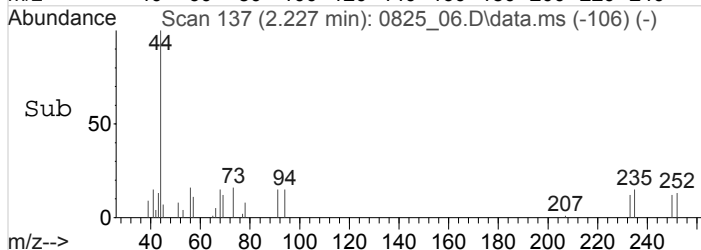
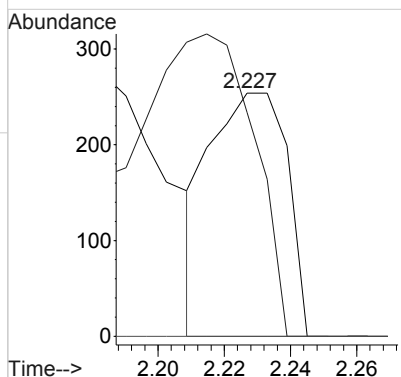
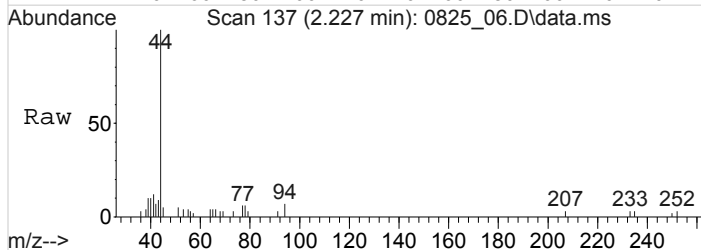
#9
BROMOMETHANE
Concen: Below Cal
RT: 2.111 min Scan# 118
Delta R.T. 0.000 min
Lab File: 0825_06.D
Acq: 25 Aug 2020 1:42 am

Tgt Ion: 94 Resp: 223
Ion Ratio Lower Upper
94 100
96 0.0 78.4 117.6#
93 0.0 17.7 26.5#



#10
CHLOROETHANE
Concen: Below Cal
RT: 2.227 min Scan# 137
Delta R.T. 0.031 min
Lab File: 0825_06.D
Acq: 25 Aug 2020 1:42 am

Tgt Ion: 64 Resp: 411
Ion Ratio Lower Upper
64 100
66 178.1 24.3 36.5#
49 0.0 26.7 40.1#



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEETSAMPLE NO.:
R3563552-3

Lab Sample ID: R3563552-3
Client Sample ID: BLANK
Lab File ID: 0825_06
Instrument ID: VOCMS26
Analytical Batch: WG1531771
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: _____
Received Date/Time: _____
Preparation Date/Time: 08/25/20 08:03
Analysis Date/Time: 08/25/20 08:03
Prep Method: 624.1/8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	0	U		0.0113	0.0500
Acrolein	107-02-8	0	U		0.00254	0.0500
Acrylonitrile	107-13-1	0	U		0.000671	0.0100
Benzene	71-43-2	0	U		0.0000941	0.00100
Bromobenzene	108-86-1	0	U		0.000118	0.00100
Bromodichloromethane	75-27-4	0	U		0.000136	0.00100
Bromoform	75-25-2	0	U		0.000129	0.00100
Bromomethane	74-83-9	0	U		0.000605	0.00500
n-Butylbenzene	104-51-8	0	U		0.000157	0.00100
sec-Butylbenzene	135-98-8	0	U		0.000125	0.00100
tert-Butylbenzene	98-06-6	0	U		0.000127	0.00100
Carbon tetrachloride	56-23-5	0	U		0.000128	0.00100
Chlorobenzene	108-90-7	0	U		0.000116	0.00100
Chlorodibromomethane	124-48-1	0	U		0.000140	0.00100
Chloroethane	75-00-3	0	U		0.000192	0.00500
Chloroform	67-66-3	0	U		0.000111	0.00500
Chloromethane	74-87-3	0	U		0.000960	0.00250
2-Chlorotoluene	95-49-8	0	U		0.000106	0.00100
4-Chlorotoluene	106-43-4	0	U		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	0	U		0.000276	0.00500
1,2-Dibromoethane	106-93-4	0	U		0.000126	0.00100
Dibromomethane	74-95-3	0	U		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	0	U		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	0	U		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	0	U		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	0	U		0.000374	0.00500
1,1-Dichloroethane	75-34-3	0	U		0.000100	0.00100
1,2-Dichloroethane	107-06-2	0	U		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	0	U		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	0	U		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	0	U		0.000149	0.00100
1,2-Dichloropropane	78-87-5	0	U		0.000149	0.00100
1,1-Dichloropropene	563-58-6	0	U		0.000142	0.00100
1,3-Dichloropropane	142-28-9	0	U		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	U		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	U		0.000118	0.00100
2,2-Dichloropropane	594-20-7	0	U		0.000161	0.00100
Di-isopropyl ether	108-20-3	0	U		0.000105	0.00100
Ethylbenzene	100-41-4	0	U		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	U		0.000337	0.00100
Isopropylbenzene	98-82-8	0	U		0.000105	0.00100
p-Isopropyltoluene	99-87-6	0	U		0.000120	0.00100
2-Butanone (MEK)	78-93-3	0	U		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: R3563552-3
Client Sample ID: BLANK
Lab File ID: 0825_06
Instrument ID: VOCMS26
Analytical Batch: WG1531771
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%):

SDG: L1253450
Collected Date/Time: _____
Received Date/Time: _____
Preparation Date/Time: 08/25/20 08:03
Analysis Date/Time: 08/25/20 08:03
Prep Method: 624.1/8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	0	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	U		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	0	U		0.000101	0.00100
Naphthalene	91-20-3	0	U		0.00100	0.00500
n-Propylbenzene	103-65-1	0	U		0.0000993	0.00100
Styrene	100-42-5	0	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	U		0.000133	0.00100
Tetrachloroethene	127-18-4	0	U		0.000300	0.00100
Toluene	108-88-3	0	U		0.000278	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	U		0.000180	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	U		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	U		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	0	U		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	0	U		0.000158	0.00100
Trichloroethene	79-01-6	0	U		0.000190	0.00100
Trichlorofluoromethane	75-69-4	0	U		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	0	U		0.000237	0.00250
1,2,3-Trimethylbenzene	526-73-8	0	U		0.000104	0.00100
1,2,4-Trimethylbenzene	95-63-6	0	U		0.000322	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	U		0.000104	0.00100
Vinyl chloride	75-01-4	0	U		0.000234	0.00100
Xylenes, Total	1330-20-7	0	U		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 06.D
 Acq On : 25 Aug 2020 8:03 am
 Operator : 1006
 Sample : BLANK 1x WG1531771
 Misc : soil
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 25 14:06:28 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

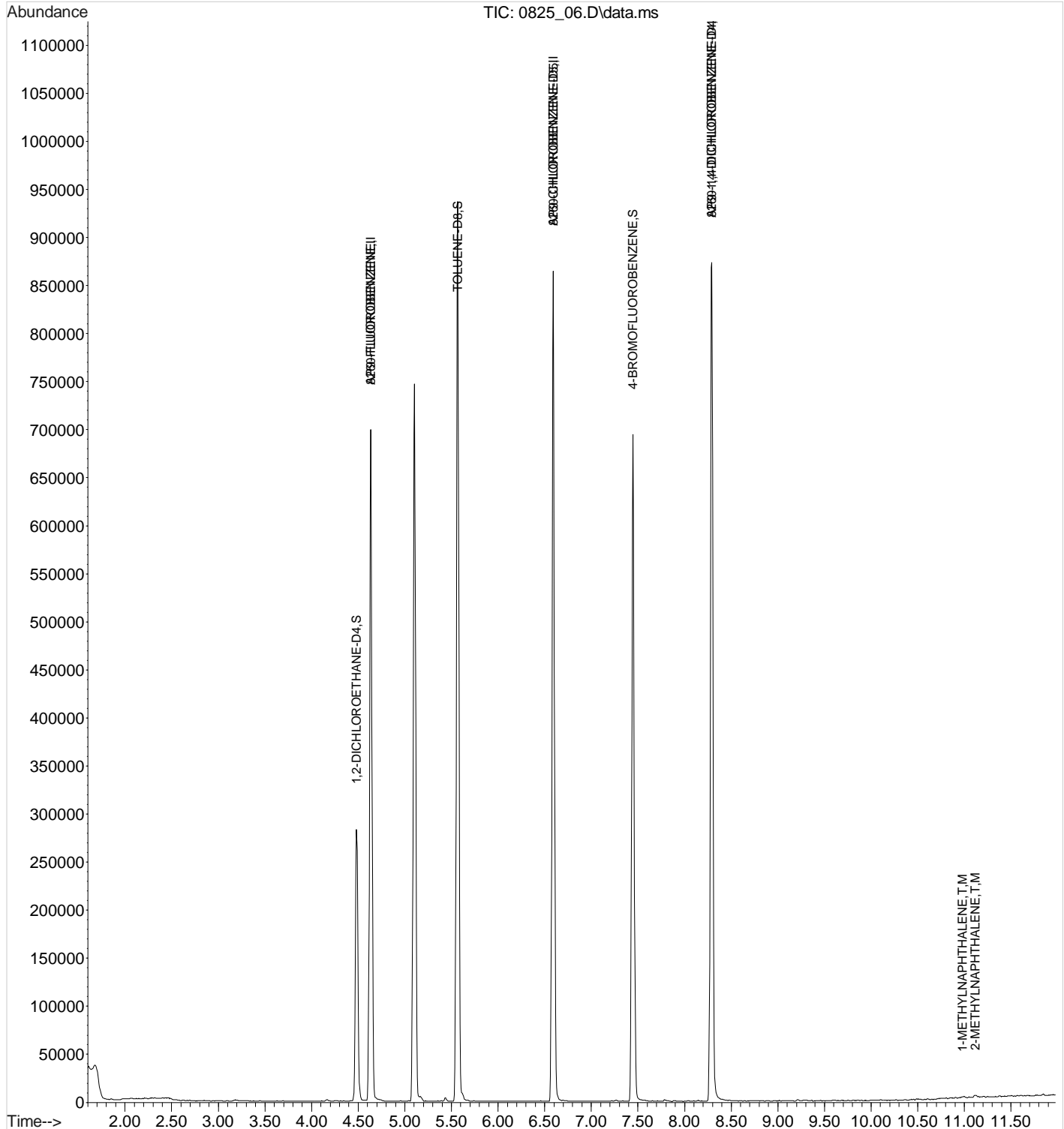
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

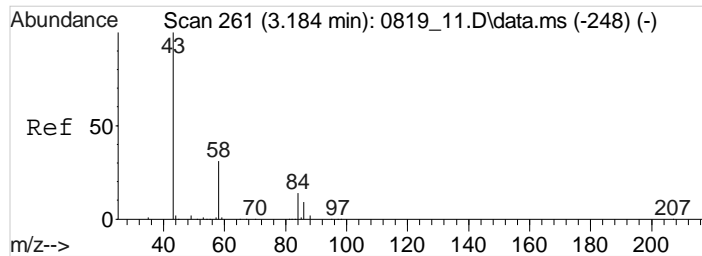
Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	612884	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	274167	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.293	152	274267	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.635	96	612884	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.592	82	274167	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	8.293	152	274267	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.483	65	189403	16.0140386	ppb	0.00
Spiked Amount 16.000			Recovery	=	100.09%	
61) TOLUENE-D8	5.568	98	639412	15.9853286	ppb	0.00
Spiked Amount 16.000	Range	89 - 115	Recovery	=	99.91%	
80) 4-BROMOFLUOROBENZENE	7.445	95	255125	16.5250654	ppb	0.00
Spiked Amount 16.000	Range	70 - 129	Recovery	=	103.28%	
Target Compounds						
19) ACETONE	3.190	43	2226	Below Cal	Qvalue # 74	
107) 1-METHYLNAPHTHALENE	10.981	142	1642	0.1856050	ppb # 79	
108) 2-METHYLNAPHTHALENE	11.115	142	1537	0.1837470	ppb # 84	

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

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_06.D
Acq On : 25 Aug 2020 8:03 am
Operator : 1006
Sample : BLANK 1x WG1531771
Misc : soil
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS26

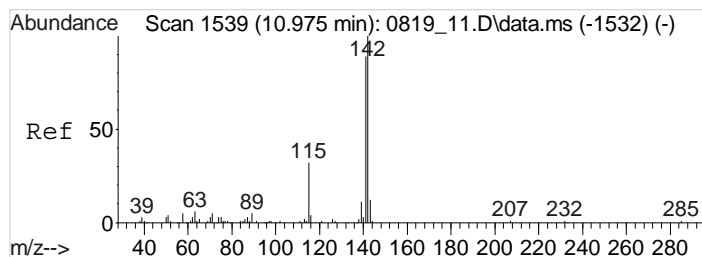
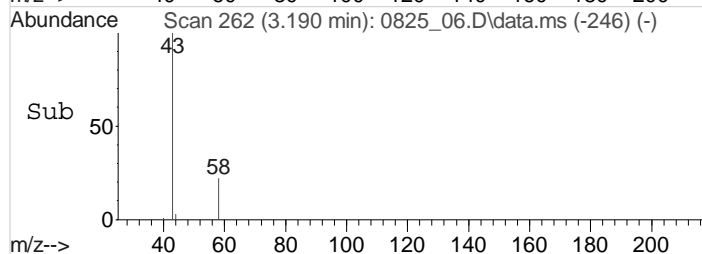
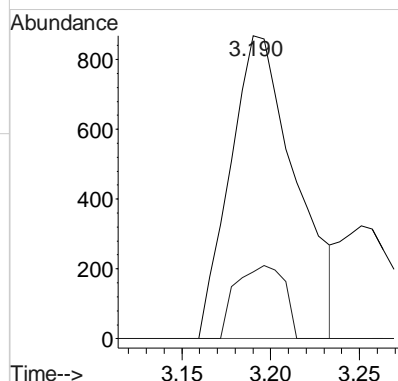
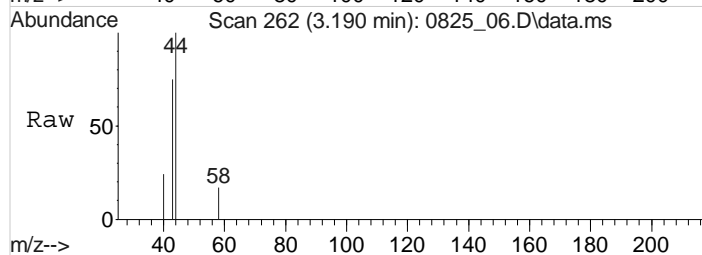
Quant Time: Aug 25 14:06:28 2020
Quant Method : C:\msdchem\1\methods\V826H21T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 09:38:52 2020
Response via : Initial Calibration





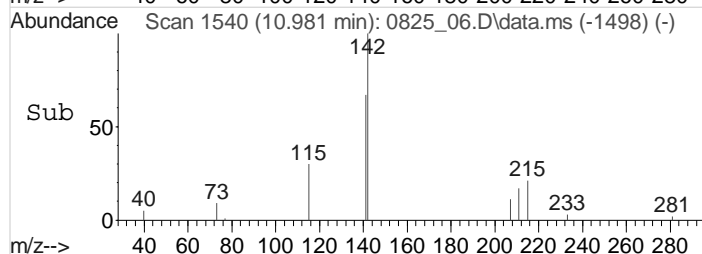
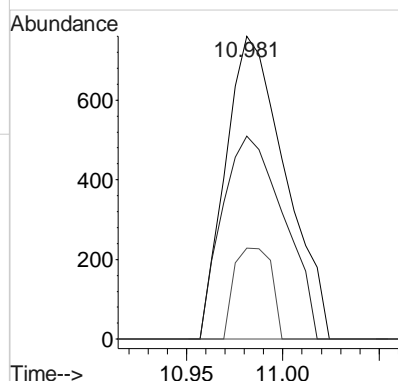
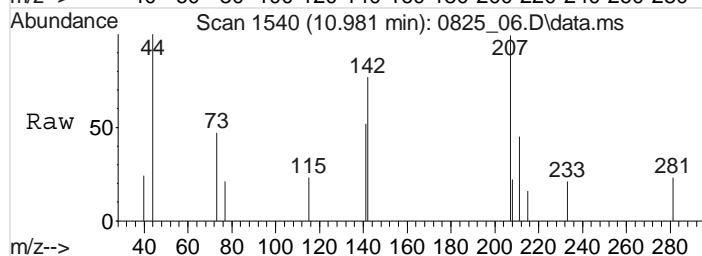
#19
ACETONE
Concen: Below Cal
RT: 3.190 min Scan# 262
Delta R.T. 0.006 min
Lab File: 0825_06.D
Acq: 25 Aug 2020 8:03 am

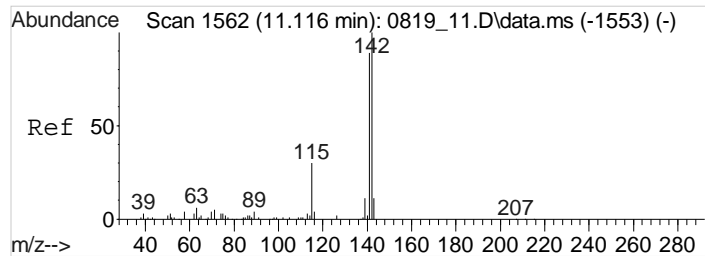
Tgt Ion: 43 Resp: 2226
Ion Ratio Lower Upper
43 100
58 17.8 26.0 39.0#



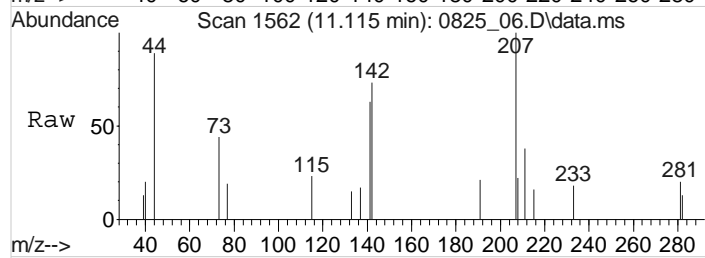
#107
1-METHYLNAPHTHALENE
Concen: 0.1856050 ppb
RT: 10.981 min Scan# 1540
Delta R.T. 0.006 min
Lab File: 0825_06.D
Acq: 25 Aug 2020 8:03 am

Tgt Ion: 142 Resp: 1642
Ion Ratio Lower Upper
142 100
141 69.4 70.9 106.3#
115 18.9 25.4 38.2#

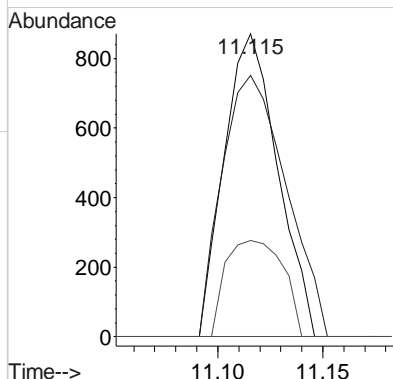
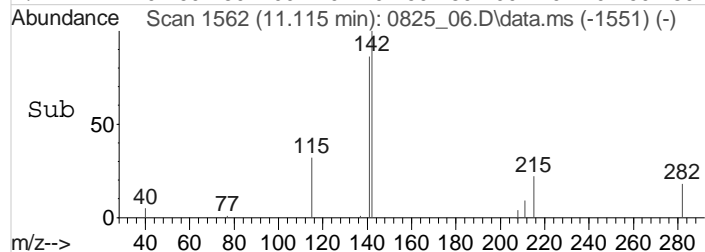




#108
 2-METHYLNAPHTHALENE
 Concen: 0.1837470 ppb
 RT: 11.115 min Scan# 1562
 Delta R.T. -0.000 min
 Lab File: 0825_06.D
 Acq: 25 Aug 2020 8:03 am



Tgt Ion:142 Resp: 1537
 Ion Ratio Lower Upper
 142 100
 141 103.4 68.9 103.3#
 115 34.1 23.8 35.8



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEETSAMPLE NO.:
R3563465-1

Lab Sample ID: R3563465-1
Client Sample ID: LCS
Lab File ID: 0825_02LCS
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: _____
Received Date/Time: _____
Preparation Date/Time: 08/25/20 00:24
Analysis Date/Time: 08/25/20 00:24
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	3	0.0184		0.0113	0.0500
Acrolein	107-02-8	2.85	0.0257		0.00254	0.0500
Acrylonitrile	107-13-1	3.45	0.0213		0.000671	0.0100
Benzene	71-43-2	4.17	0.00532		0.0000941	0.00100
Bromobenzene	108-86-1	7.23	0.00501		0.000118	0.00100
Bromodichloromethane	75-27-4	4.82	0.00502		0.000136	0.00100
Bromoform	75-25-2	6.80	0.00486		0.000129	0.00100
Bromomethane	74-83-9	2.11	0.00140		0.000605	0.00500
n-Butylbenzene	104-51-8	7.75	0.00332	J4	0.000157	0.00100
sec-Butylbenzene	135-98-8	7.54	0.00403		0.000125	0.00100
tert-Butylbenzene	98-06-6	7.47	0.00451		0.000127	0.00100
Carbon tetrachloride	56-23-5	3.93	0.00487		0.000128	0.00100
Chlorobenzene	108-90-7	6.32	0.00524		0.000116	0.00100
Chlorodibromomethane	124-48-1	5.82	0.00504		0.000140	0.00100
Chloroethane	75-00-3	2.20	0.00614		0.000192	0.00500
Chloroform	67-66-3	3.84	0.00501		0.000111	0.00500
Chloromethane	74-87-3	1.83	0.00363		0.000960	0.00250
2-Chlorotoluene	95-49-8	7.32	0.00519		0.000106	0.00100
4-Chlorotoluene	106-43-4	7.40	0.00436		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	8.12	0.00398		0.000276	0.00500
1,2-Dibromoethane	106-93-4	6	0.00520		0.000126	0.00100
Dibromomethane	74-95-3	4.75	0.00562		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	7.83	0.00429		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	7.64	0.00436		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	7.67	0.00490		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	1.64	0.00411		0.000374	0.00500
1,1-Dichloroethane	75-34-3	3.41	0.00548		0.000100	0.00100
1,2-Dichloroethane	107-06-2	4.28	0.00501		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	2.63	0.00527		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	3.71	0.00573		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	3.07	0.00548		0.000149	0.00100
1,2-Dichloropropane	78-87-5	4.79	0.00594		0.000149	0.00100
1,1-Dichloropropene	563-58-6	4.03	0.00517		0.000142	0.00100
1,3-Dichloropropane	142-28-9	5.88	0.00558		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	5.19	0.00510		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	5.60	0.00391		0.000118	0.00100
2,2-Dichloropropane	594-20-7	3.76	0.00448		0.000161	0.00100
Di-isopropyl ether	108-20-3	3.30	0.00512		0.000105	0.00100
Ethylbenzene	100-41-4	6.32	0.00477		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	8.33	0.00348		0.000337	0.00100
Isopropylbenzene	98-82-8	6.93	0.00430		0.000105	0.00100
p-Isopropyltoluene	99-87-6	7.59	0.00408		0.000120	0.00100
2-Butanone (MEK)	78-93-3	4.01	0.0210		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3563465-1	SDG:	L1253450
Client Sample ID:	LCS	Collected Date/Time:	
Lab File ID:	0825_02LCS	Received Date/Time:	
Instrument ID:	VOCMS7	Preparation Date/Time:	08/25/20 00:24
Analytical Batch:	WG1531654	Analysis Date/Time:	08/25/20 00:24
Dilution Factor:	1	Prep Method:	8260B
Analytical Method:	8260B	Sample Vol Used:	5 mL
Matrix:	GW	Initial Wt/Vol:	
Total Solids (%):		Final Wt/Vol:	5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	2.97	0.00573		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	5.54	0.0224		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	3.10	0.00506		0.000101	0.00100
Naphthalene	91-20-3	8.49	0.00278		0.00100	0.00500
n-Propylbenzene	103-65-1	7.22	0.00456		0.0000993	0.00100
Styrene	100-42-5	6.77	0.00372		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	6.35	0.00558		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	7.26	0.00597		0.000133	0.00100
Tetrachloroethene	127-18-4	5.58	0.00478		0.000300	0.00100
Toluene	108-88-3	5.34	0.00491		0.000278	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	2.63	0.00447		0.000180	0.00100
1,2,3-Trichlorobenzene	87-61-6	8.55	0.00313		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	8.37	0.00383		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	3.97	0.00505		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	5.69	0.00533		0.000158	0.00100
Trichloroethene	79-01-6	4.50	0.00506		0.000190	0.00100
Trichlorofluoromethane	75-69-4	2.29	0.00419		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	7.34	0.00593		0.000237	0.00250
1,2,3-Trimethylbenzene	526-73-8	7.67	0.00399		0.000104	0.00100
1,2,4-Trimethylbenzene	95-63-6	7.50	0.00421		0.000322	0.00100
1,3,5-Trimethylbenzene	108-67-8	7.32	0.00469		0.000104	0.00100
Vinyl chloride	75-01-4	1.87	0.00538		0.000234	0.00100
Xylenes, Total	1330-20-7	6.72	0.0136		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_02.D
 Acq On : 25 Aug 2020 12:24 am
 Operator : 808
 Sample : ICVLCS VMS 5.0 PPB
 Misc : water
 ALS Vial : 58 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:55:52 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	229878	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.309	82	96338	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZENE...	7.665	152	75941	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.393	96	228420	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.309	82	96338	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZENE...	7.665	152	75941	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.247	65	68385	15.2866564	ppb	0.00
Spiked Amount 16.000			Recovery	=	95.54%	
61) TOLUENE-D8	5.299	98	242365	15.4434113	ppb	0.00
Spiked Amount 16.000	Range	90 - 115	Recovery	=	96.52%	
80) 4-BROMOFLUOROBENZENE	7.154	95	82920	15.0826353	ppb	0.00
Spiked Amount 16.000	Range	80 - 120	Recovery	=	94.27%	
Target Compounds						
					Qvalue	
4) PROPENE	1.606	41	12963	3.8254278	ppb	98
5) DICHLORODIFLUOROMETHANE	1.637	85	34545	4.1102369	ppb	100
6) CHLOROMETHANE	1.825	50	32872	3.6292311	ppb	100
7) VINYL CHLORIDE	1.868	62	38113	5.3810493	ppb	96
8) 1,3-BUTADIENE	1.880	39	28820	5.3170564	ppb	95
9) BROMOMETHANE	2.105	94	9427	1.3972048	ppb	90
10) CHLOROETHANE	2.196	64	25005	6.1382693	ppb	# 91
11) VINYL BROMIDE	2.275	106	29193	6.3973852	ppb	99
12) TRICHLOROFLUOROMETHANE	2.288	101	38279	4.1885460	ppb	99
13) DICHLOROFLUOROMETHANE	2.324	67	59682	5.3760544	ppb	96
14) ETHYL ETHER	2.494	59	17805	5.3581387	ppb	97
15) ACROLEIN	2.847	56	15691	25.6527918	ppb	96
16) ETHANOL	2.598	45	15973	156.0602727	ppb	# 76
17) 1,1-DICHLOROETHENE	2.628	96	23595	5.2685079	ppb	98
18) 1,1,2-TRICHLOROTRIFLUO...	2.634	101	20542	4.4738373	ppb	94
19) ACETONE	2.999	43	42520	18.4225975	ppb	90
20) IODOMETHANE	2.726	142	32772	3.9599050	ppb	# 82
21) CARBON DISULFIDE	2.665	76	73831	5.4659039	ppb	97
22) ALLYL CHLORIDE	2.908	76	74311	28.9166867	ppb	82
23) METHYLENE CHLORIDE	2.969	84	28700	5.7250311	ppb	97
24) METHYL ACETATE	3.054	43	92965	22.8099391	ppb	# 94
25) ACRYLONITRILE	3.450	53	54946	21.2560836	ppb	97
26) n-HEXANE	3.097	56	13377	4.1063508	ppb	# 91
27) TRANS-1,2-DICHLOROETHENE	3.066	96	26923	5.4845453	ppb	97
28) METHYL TERT-BUTYL ETHER	3.103	73	70398	5.0622317	ppb	89
29) TERT-BUTYL ALCOHOL	3.145	59	20923	18.6003785	ppb	# 100
30) 1,1-DICHLOROETHANE	3.407	63	50358	5.4760490	ppb	100
31) VINYL ACETATE	3.523	43	211313	24.1449312	ppb	99
32) DI-ISOPROPYL ETHER	3.297	45	78060	5.1184461	ppb	98
33) ETHYL TERT-BUTYL ETHER	3.498	59	68775	4.8919107	ppb	98
34) 2,2-DICHLOROPROPANE	3.760	77	35988	4.4837683	ppb	100
35) CIS-1,2-DICHLOROETHENE	3.705	96	31535	5.7323121	ppb	93
36) 2-BUTANONE (MEK)	4.009	43	73423	20.9776765	ppb	91
37) BROMOCHLOROMETHANE	3.821	130	19086	6.4590013	ppb	88
38) TETRAHYDROFURAN	3.948	42	10783	4.2041949	ppb	88
39) CHLOROFORM	3.839	83	50668	5.0095921	ppb	100
40) CYCLOHEXANE	3.821	84	26549	3.8858015	ppb	96
41) 1,1,1-TRICHLOROETHANE	3.967	97	42449	5.0527638	ppb	98

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_02.D
 Acq On : 25 Aug 2020 12:24 am
 Operator : 808
 Sample : ICVLCS VMS 5.0 PPB
 Misc : water
 ALS Vial : 58 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:55:52 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
42) CARBON TETRACHLORIDE	3.930	117	37916	4.8663175	ppb		96
43) 1,1-DICHLOROPROPENE	4.034	75	34280	5.1656729	ppb		99
44) 2,2,4-TRIMETHYLPENTANE	4.064	57	22053	2.6527091	ppb		97
45) n-Heptane	4.113	71	5723	2.4985150	ppb	#	91
46) BENZENE	4.174	78	112360	5.3193032	ppb		96
47) TERT-AMYL METHYL ETHER	4.198	73	68355	4.7503023	ppb		96
49) 1,2-DICHLOROETHANE	4.283	62	31564	5.0117431	ppb		98
50) T-AMYL ALCOHOL	4.289	59	18870	19.0922045	ppb		95
51) TRICHLOROETHENE	4.496	132	28920	5.0616782	ppb		93
52) METHYL CYCLOHEXANE	4.490	83	23801	3.3871151	ppb		94
53) TERT-AMYL ETHYL ETHER	4.575	59	46862	4.6015065	ppb		94
54) 1,2-DICHLOROPROPANE	4.794	62	19495	5.9412291	ppb		98
55) DIBROMOMETHANE	4.751	93	16628	5.6238150	ppb		90
56) BROMODICHLOROMETHANE	4.818	83	34388	5.0235429	ppb		100
57) 2-CHLOROETHYL VINYL ETHER	5.129	63	72010	20.8643909	ppb		98
58) CIS-1,3-DICHLOROPROPENE	5.189	75	37361	5.1018363	ppb		95
60) 4-METHYL-2-PENTANONE (...)	5.542	43	177591	22.3503478	ppb		98
62) TOLUENE	5.335	91	116540	4.9118423	ppb		99
63) TRANS-1,3-DICHLOROPROPENE	5.597	75	25067	3.9047427	ppb	#	97
64) 1,1,2-TRICHLOROETHANE	5.694	97	24731	5.3333104	ppb		100
65) TETRACHLOROETHENE	5.585	164	24283	4.7841649	ppb		98
66) 1,3-DICHLOROPROPANE	5.877	76	39167	5.5802841	ppb		95
67) 2-HEXANONE	6.084	58	63874	20.7213022	ppb		96
68) CHLORODIBROMOMETHANE	5.822	129	28193	5.0420420	ppb		97
69) 1,2-DIBROMOETHANE	5.999	107	25649	5.2037355	ppb		96
70) CHLOROBENZENE	6.321	112	76477	5.2388326	ppb		95
71) 1,1,1,2-TETRACHLOROETHANE	6.351	133	27509	5.5797895	ppb	#	100
72) ETHYLBENZENE	6.321	106	37830	4.7670311	ppb		95
73) M&P-XYLENE	6.412	106	92515	9.1266377	ppb		98
74) O-XYLENE	6.716	106	43254	4.4544325	ppb		97
77) STYRENE	6.765	104	53423	3.7206184	ppb		99
78) BROMOFORM	6.796	173	22828	4.8628862	ppb		97
79) ISOPROPYLBENZENE	6.929	105	104728	4.2956871	ppb		97
82) BROMOBENZENE	7.227	77	42221	5.0094400	ppb		94
83) 1,1,2,2-TETRACHLOROETHANE	7.258	83	40524	5.9708955	ppb		97
84) 1,2,3-TRICHLOROPROPANE	7.343	110	11589	5.9291101	ppb		84
85) TRANS-1,4-DICHLORO-2-B...	7.367	53	6653	3.7438764	ppb	#	87
86) N-PROPYLBENZENE	7.215	91	108992	4.5584005	ppb		98
87) 4-ETHYLTOLUENE	7.276	105	90164	5.0451210	ppb		98
88) 2-CHLOROTOLUENE	7.319	91	73674	5.1850229	ppb		96
89) 4-CHLOROTOLUENE	7.404	91	55288	4.3571223	ppb		91
90) 1,3,5-TRIMETHYLBENZENE	7.319	105	78739	4.6903764	ppb		98
91) TERT-BUTYLBENZENE	7.471	119	64769	4.5067244	ppb		92
92) 1,2,4-TRIMETHYLBENZENE	7.501	105	57989	4.2117875	ppb		99
93) SEC-BUTYLBENZENE	7.538	105	69092	4.0314493	ppb	#	92
94) 1,3-DICHLOROBENZENE	7.641	146	32638	4.3643621	ppb		96
95) P-ISOPROPYLTOLUENE	7.593	119	56918	4.0793775	ppb		98
96) DICYCLOPENTADIENE	7.593	66	71667	4.3698884	ppb	#	93
97) 1,4-DICHLOROBENZENE	7.672	146	41803	4.8953232	ppb		92
98) 1,2,3-TRIMETHYLBENZENE	7.665	105	43457	3.9939246	ppb		90
99) 1,2-DICHLOROBENZENE	7.830	146	32945	4.2914033	ppb		98
100) N-BUTYLBENZENE	7.751	91	39137	3.3203017	ppb		98
101) 1,2-DIBROMO-3-CHLOROPR...	8.122	157	7839	3.9773821	ppb		89
102) 1,3,5-TRICHLOROBENZENE	8.134	180	20616	4.1476955	ppb		96
103) 1,2,4-TRICHLOROBENZENE	8.371	180	15783	3.8251741	ppb		98

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_02.D
Acq On : 25 Aug 2020 12:24 am
Operator : 808
Sample : ICVLCS VMS 5.0 PPB
Misc : water
ALS Vial : 58 Sample Multiplier: 1
InstName : VOCMS7

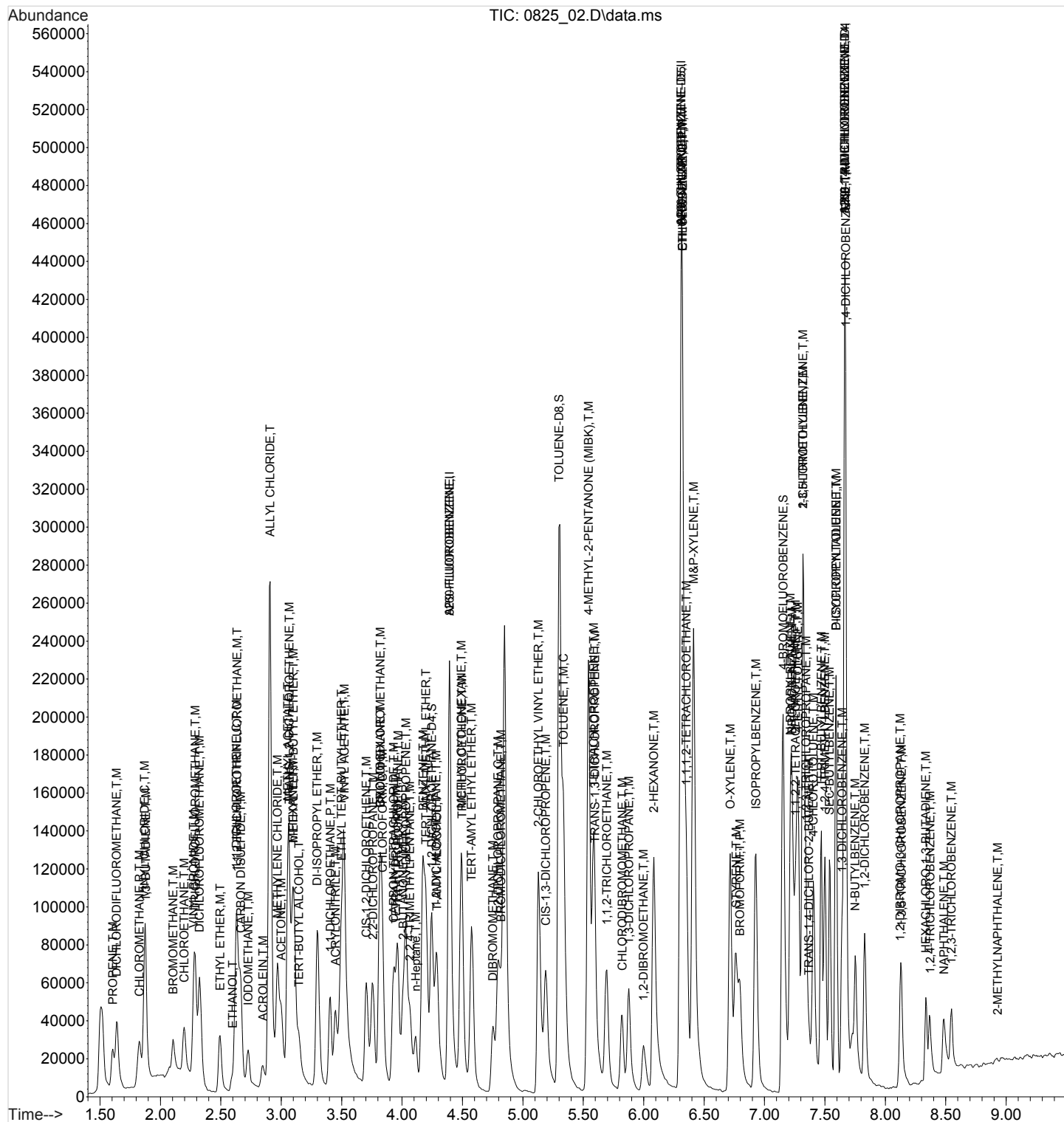
Quant Time: Aug 25 10:55:52 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
104) HEXACHLORO-1,3-BUTADIENE	8.335	225	7103	3.4826099	ppb		91
105) NAPHTHALENE	8.487	128	35953	2.7834829	ppb		99
106) 1,2,3-TRICHLOROBENZENE	8.548	180	11811	3.1282409	ppb		94
108) 2-METHYLNAPHTHALENE	8.931	142	1318	0.4616893	ppb	#	74

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

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_02.D
Acq On : 25 Aug 2020 12:24 am
Operator : 808
Sample : ICVLCS VMS 5.0 PPB
Misc : water
ALS Vial : 58 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Aug 25 10:55:52 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: R3563552-1
Client Sample ID: LCS
Lab File ID: 0825_02LCS
Instrument ID: VOCMS26
Analytical Batch: WG1531771
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%):

SDG: L1253450
Collected Date/Time: _____
Received Date/Time: _____
Preparation Date/Time: 08/25/20 06:40
Analysis Date/Time: 08/25/20 06:40
Prep Method: 624.1/8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result mg/l	Qualifier	MDL mg/l	RDL mg/l
Acetone	67-64-1	3.19	0.0219		0.0113	0.0500
Acrolein	107-02-8	3.02	0.0420	J4	0.00254	0.0500
Acrylonitrile	107-13-1	3.65	0.0265		0.000671	0.0100
Benzene	71-43-2	4.41	0.00527		0.0000941	0.00100
Bromobenzene	108-86-1	7.53	0.00466		0.000118	0.00100
Bromodichloromethane	75-27-4	5.07	0.00528		0.000136	0.00100
Bromoform	75-25-2	7.08	0.00446		0.000129	0.00100
Bromomethane	74-83-9	2.30	0.00537		0.000605	0.00500
n-Butylbenzene	104-51-8	8.48	0.00467		0.000157	0.00100
sec-Butylbenzene	135-98-8	8.04	0.00472		0.000125	0.00100
tert-Butylbenzene	98-06-6	7.91	0.00484		0.000127	0.00100
Carbon tetrachloride	56-23-5	4.16	0.00543		0.000128	0.00100
Chlorobenzene	108-90-7	6.60	0.00503		0.000116	0.00100
Chlorodibromomethane	124-48-1	6.09	0.00473		0.000140	0.00100
Chloroethane	75-00-3	2.39	0.00543		0.000192	0.00500
Chloroform	67-66-3	4.06	0.00563		0.000111	0.00500
Chloromethane	74-87-3	1.97	0.00535		0.000960	0.00250
2-Chlorotoluene	95-49-8	7.66	0.00502		0.000106	0.00100
4-Chlorotoluene	106-43-4	7.78	0.00487		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	9.28	0.00409		0.000276	0.00500
1,2-Dibromoethane	106-93-4	6.27	0.00488		0.000126	0.00100
Dibromomethane	74-95-3	4.99	0.00511		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	8.64	0.00491		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	8.24	0.00490		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	8.31	0.00485		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	1.78	0.00442		0.000374	0.00500
1,1-Dichloroethane	75-34-3	3.62	0.00553		0.000100	0.00100
1,2-Dichloroethane	107-06-2	4.52	0.00537		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	2.81	0.00532		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	3.92	0.00543		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	3.26	0.00567		0.000149	0.00100
1,2-Dichloropropane	78-87-5	5.05	0.00530		0.000149	0.00100
1,1-Dichloropropene	563-58-6	4.26	0.00541		0.000142	0.00100
1,3-Dichloropropane	142-28-9	6.15	0.00512		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	5.45	0.00506		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	5.85	0.00463		0.000118	0.00100
2,2-Dichloropropane	594-20-7	3.99	0.00491		0.000161	0.00100
Di-isopropyl ether	108-20-3	3.51	0.00583		0.000105	0.00100
Ethylbenzene	100-41-4	6.60	0.00490		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	9.79	0.00435		0.000337	0.00100
Isopropylbenzene	98-82-8	7.22	0.00478		0.000105	0.00100
p-Isopropyltoluene	99-87-6	8.15	0.00481		0.000120	0.00100
2-Butanone (MEK)	78-93-3	4.23	0.0261		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEETSAMPLE NO.:
R3563552-1

Lab Sample ID: R3563552-1
Client Sample ID: LCS
Lab File ID: 0825_02LCS
Instrument ID: VOCMS26
Analytical Batch: WG1531771
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: _____
Received Date/Time: _____
Preparation Date/Time: 08/25/20 06:40
Analysis Date/Time: 08/25/20 06:40
Prep Method: 624.1/8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	3.17	0.00514		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	5.81	0.0262		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	3.31	0.00510		0.000101	0.00100
Naphthalene	91-20-3	10.10	0.00400		0.00100	0.00500
n-Propylbenzene	103-65-1	7.52	0.00504		0.0000993	0.00100
Styrene	100-42-5	7.04	0.00491		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	6.63	0.00484		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	7.57	0.00473		0.000133	0.00100
Tetrachloroethene	127-18-4	5.85	0.00479		0.000300	0.00100
Toluene	108-88-3	5.60	0.00498		0.000278	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	2.85	0.00413		0.000180	0.00100
1,2,3-Trichlorobenzene	87-61-6	10.26	0.00406		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	9.83	0.00441		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	4.20	0.00576		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	5.96	0.00477		0.000158	0.00100
Trichloroethene	79-01-6	4.73	0.00535		0.000190	0.00100
Trichlorofluoromethane	75-69-4	2.48	0.00489		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	7.69	0.00508		0.000237	0.00250
1,2,3-Trimethylbenzene	526-73-8	8.31	0.00454		0.000104	0.00100
1,2,4-Trimethylbenzene	95-63-6	7.96	0.00484		0.000322	0.00100
1,3,5-Trimethylbenzene	108-67-8	7.66	0.00489		0.000104	0.00100
Vinyl chloride	75-01-4	2.04	0.00492		0.000234	0.00100
Xylenes, Total	1330-20-7	7.01	0.0148		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 02.D
 Acq On : 25 Aug 2020 6:40 am
 Operator : 1006
 Sample : ICVLCS VMS 5.0 ppb
 Misc : soil
 ALS Vial : 2 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 25 14:04:44 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	604080	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	275494	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.293	152	276847	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.635	96	604080	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.592	82	275494	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	8.293	152	276847	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.483	65	191857	16.4579407	ppb	0.00
Spiked Amount 16.000			Recovery	= 102.86%		
61) TOLUENE-D8	5.568	98	632561	15.7378801	ppb	0.00
Spiked Amount 16.000	Range 89 - 115		Recovery	= 98.36%		
80) 4-BROMOFLUOROBENZENE	7.445	95	251378	16.2039342	ppb	0.00
Spiked Amount 16.000	Range 70 - 129		Recovery	= 101.27%		
Target Compounds						
					Qvalue	
4) PROPENE	1.745	41	17763	3.2211694	ppb	97
5) DICHLORODIFLUOROMETHANE	1.782	85	55353	4.4156486	ppb	99
6) CHLOROMETHANE	1.971	50	61488	5.3552666	ppb	97
7) VINYL CHLORIDE	2.038	62	54364	4.9234364	ppb	99
8) 1,3-BUTADIENE	2.038	39	39471	4.3212999	ppb	87
9) BROMOMETHANE	2.300	94	43268	5.3688703	ppb	96
10) CHLOROETHANE	2.392	64	32611	5.4311171	ppb	95
11) VINYL BROMIDE	2.471	106	49650	5.5304846	ppb	96
12) TRICHLOROFLUOROMETHANE	2.477	101	66477	4.8935341	ppb	99
13) DICHLOROFLUOROMETHANE	2.514	67	101552	5.8462940	ppb	99
14) ETHYL ETHER	2.660	59	42928	5.0536485	ppb	96
15) ACROLEIN	3.019	56	18246	41.9488014	ppb	98
16) ETHANOL	2.751	45	14041	104.9058610	ppb	# 85
17) 1,1-DICHLOROETHENE	2.806	96	42364	5.3250277	ppb	90
18) 1,1,2-TRICHLOROTRIFLUO...	2.849	101	33506	4.1276738	ppb	99
19) ACETONE	3.190	43	86381	21.8684653	ppb	95
20) IODOMETHANE	2.910	142	478493	27.4254481	ppb	96
21) CARBON DISULFIDE	2.843	76	128348	5.1374998	ppb	98
22) ALLYL CHLORIDE	3.099	76	139536	25.9319980	ppb	94
23) METHYLENE CHLORIDE	3.166	84	52275	5.1436527	ppb	92
24) METHYL ACETATE	3.251	43	217583	27.3348339	ppb	# 98
25) ACRYLONITRILE	3.647	53	138535	26.4853451	ppb	97
26) n-HEXANE	3.294	56	21136	4.1785967	ppb	# 93
27) TRANS-1,2-DICHLOROETHENE	3.257	96	51587	5.6654014	ppb	96
28) METHYL TERT-BUTYL ETHER	3.306	73	147864	5.1017216	ppb	89
29) TERT-BUTYL ALCOHOL	3.343	59	29701	16.9373175	ppb	# 100
30) 1,1-DICHLOROETHANE	3.617	63	96476	5.5262176	ppb	99
31) VINYL ACETATE	3.727	43	576989	26.9515030	ppb	99
32) DI-ISOPROPYL ETHER	3.507	45	179962	5.8304699	ppb	99
33) ETHYL TERT-BUTYL ETHER	3.715	59	163966	5.4632000	ppb	96
34) 2,2-DICHLOROPROPANE	3.989	77	55085	4.9087845	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.922	96	57190	5.4307503	ppb	95
36) 2-BUTANONE (MEK)	4.227	43	177118	26.0547772	ppb	98
37) BROMOCHLOROMETHANE	4.038	130	39246	5.4407443	ppb	99
38) TETRAHYDROFURAN	4.166	42	21958	4.7577213	ppb	# 95
39) CHLOROFORM	4.062	83	95302	5.6286494	ppb	100
40) CYCLOHEXANE	4.050	84	44530	4.2274862	ppb	96

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 02.D
 Acq On : 25 Aug 2020 6:40 am
 Operator : 1006
 Sample : ICVLCS VMS 5.0 ppb
 Misc : soil
 ALS Vial : 2 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 25 14:04:44 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-TRICHLOROETHANE	4.196	97	82238	5.7576934	ppb	97
42) CARBON TETRACHLORIDE	4.160	117	67987	5.4248747	ppb	99
43) 1,1-DICHLOROPROPENE	4.263	75	66563	5.4075385	ppb	95
44) 2,2,4-TRIMETHYLPENTANE	4.306	57	44971	3.5597520	ppb	95
45) n-Heptane	4.342	71	11592	3.2350183	ppb	# 92
46) BENZENE	4.409	78	205215	5.2676969	ppb	97
47) TERT-AMYL METHYL ETHER	4.434	73	151940	5.2430455	ppb	98
49) 1,2-DICHLOROETHANE	4.519	62	73377	5.3645410	ppb	100
50) T-AMYL ALCOHOL	4.525	59	36265	21.6994215	ppb	98
51) TRICHLOROETHENE	4.733	132	58359	5.3534526	ppb	98
52) METHYL CYCLOHEXANE	4.739	83	37978	3.8547208	ppb	96
53) TERT-AMYL ETHYL ETHER	4.824	59	120822	5.2190317	ppb	99
54) 1,2-DICHLOROPROPANE	5.050	62	37029	5.3000519	ppb	95
55) DIBROMOMETHANE	4.995	93	35548	5.1089828	ppb	97
56) BROMODICHLOROMETHANE	5.068	83	70090	5.2823778	ppb	96
57) 2-CHLOROETHYL VINYL ETHER	5.385	63	196597	26.9430516	ppb	100
58) CIS-1,3-DICHLOROPROPENE	5.446	75	80446	5.0546434	ppb	99
60) 4-METHYL-2-PENTANONE (...)	5.812	43	377375	26.2263244	ppb	96
62) TOLUENE	5.598	91	224429	4.9820149	ppb	100
63) TRANS-1,3-DICHLOROPROPENE	5.848	75	70710	4.6282161	ppb	99
64) 1,1,2-TRICHLOROETHANE	5.958	97	47631	4.7711950	ppb	98
65) TETRACHLOROETHENE	5.854	164	40545	4.7886654	ppb	99
66) 1,3-DICHLOROPROPANE	6.147	76	80435	5.1191809	ppb	98
67) 2-HEXANONE	6.354	58	141715	23.6521688	ppb	95
68) CHLORODIBROMOMETHANE	6.086	129	55573	4.7263293	ppb	99
69) 1,2-DIBROMOETHANE	6.269	107	53544	4.8825688	ppb	95
70) CHLOROBENZENE	6.604	112	142660	5.0291839	ppb	98
71) 1,1,1,2-TETRACHLOROETHANE	6.635	133	51099	4.8436789	ppb	# 100
72) ETHYLBENZENE	6.598	106	70105	4.8982123	ppb	98
73) M&P-XYLENE	6.696	106	170597	9.8411950	ppb	99
74) O-XYLENE	7.007	106	83236	4.9311595	ppb	98
77) STYRENE	7.037	104	138227	4.9133510	ppb	98
78) BROMOFORM	7.080	173	40156	4.4626281	ppb	98
79) ISOPROPYLBENZENE	7.220	105	190799	4.7829636	ppb	99
82) BROMOBENZENE	7.531	77	84040	4.6568492	ppb	98
83) 1,1,2,2-TETRACHLOROETHANE	7.574	83	68622	4.7248028	ppb	99
84) 1,2,3-TRICHLOROPROPANE	7.689	110	21723	5.0825836	ppb	96
85) TRANS-1,4-DICHLORO-2-B...	7.708	53	13910	3.6898182	ppb	# 83
86) N-PROPYLBENZENE	7.525	91	210383	5.0364366	ppb	99
87) 4-ETHYLTOLUENE	7.598	105	172533	4.9432026	ppb	99
88) 2-CHLOROTOLUENE	7.659	91	141671	5.0203766	ppb	99
89) 4-CHLOROTOLUENE	7.781	91	134297	4.8702537	ppb	100
90) 1,3,5-TRIMETHYLBENZENE	7.659	105	144406	4.8889981	ppb	99
91) TERT-BUTYLBENZENE	7.909	119	122927	4.8365469	ppb	99
92) 1,2,4-TRIMETHYLBENZENE	7.958	105	142213	4.8379875	ppb	98
93) SEC-BUTYLBENZENE	8.043	105	151190	4.7164011	ppb	99
94) 1,3-DICHLOROBENZENE	8.238	146	83521	4.8958394	ppb	99
95) P-ISOPROPYLTOLUENE	8.147	119	137667	4.8084634	ppb	98
96) DICYCLOPENTADIENE	8.153	66	167846	4.8592889	ppb	98
97) 1,4-DICHLOROBENZENE	8.305	146	85670	4.8482727	ppb	98
98) 1,2,3-TRIMETHYLBENZENE	8.305	105	113977	4.5428862	ppb	99
99) 1,2-DICHLOROBENZENE	8.640	146	80732	4.9101039	ppb	97
100) N-BUTYLBENZENE	8.476	91	100486	4.6663548	ppb	98
101) 1,2-DIBROMO-3-CHLOROPR...	9.280	157	15853	4.0930816	ppb	97

Data Path : C:\msdchem\1\data\082520\
Data File : 0825 02.D
Acq On : 25 Aug 2020 6:40 am
Operator : 1006
Sample : ICVLCS VMS 5.0 ppb
Misc : soil
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS26

Quant Time: Aug 25 14:04:44 2020
Quant Method : C:\msdchem\1\methods\V826H21T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 09:38:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) 1,3,5-TRICHLOROBENZENE	9.299	180	37871	4.6072539	ppb	97
103) 1,2,4-TRICHLOROBENZENE	9.829	180	32309	4.4135582	ppb	100
104) HEXACHLORO-1,3-BUTADIENE	9.786	225	14951	4.3500813	ppb	97
105) NAPHTHALENE	10.103	128	117935	3.9973574	ppb	99
106) 1,2,3-TRICHLOROBENZENE	10.262	180	28786	4.0653586	ppb	99
107) 1-METHYLNAPHTHALENE	10.975	142	30117	3.3725780	ppb	97
108) 2-METHYLNAPHTHALENE	11.109	142	27719	3.2829001	ppb	92

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

Quant Time: Aug 25 14:04:44 2020
Quant Method : C:\msdchem\1\methods\V826H21T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 09:38:52 2020
Response via : Initial Calibration



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: R3563465-2
Client Sample ID: LCSD
Lab File ID: 0825_03
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%):

SDG: L1253450
Collected Date/Time:
Received Date/Time:
Preparation Date/Time: 08/25/20 00:43
Analysis Date/Time: 08/25/20 00:43
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol:
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result mg/l	Qualifier	MDL mg/l	RDL mg/l
Acetone	67-64-1	3	0.0181		0.0113	0.0500
Acrolein	107-02-8	2.85	0.0215		0.00254	0.0500
Acrylonitrile	107-13-1	3.45	0.0206		0.000671	0.0100
Benzene	71-43-2	4.17	0.00527		0.0000941	0.00100
Bromobenzene	108-86-1	7.23	0.00485		0.000118	0.00100
Bromodichloromethane	75-27-4	4.82	0.00475		0.000136	0.00100
Bromoform	75-25-2	6.80	0.00482		0.000129	0.00100
Bromomethane	74-83-9	2.11	0.00137		0.000605	0.00500
n-Butylbenzene	104-51-8	7.75	0.00353	J4	0.000157	0.00100
sec-Butylbenzene	135-98-8	7.54	0.00406		0.000125	0.00100
tert-Butylbenzene	98-06-6	7.47	0.00454		0.000127	0.00100
Carbon tetrachloride	56-23-5	3.93	0.00455		0.000128	0.00100
Chlorobenzene	108-90-7	6.32	0.00504		0.000116	0.00100
Chlorodibromomethane	124-48-1	5.82	0.00484		0.000140	0.00100
Chloroethane	75-00-3	2.20	0.00560		0.000192	0.00500
Chloroform	67-66-3	3.84	0.00492		0.000111	0.00500
Chloromethane	74-87-3	1.83	0.00374		0.000960	0.00250
2-Chlorotoluene	95-49-8	7.32	0.00535		0.000106	0.00100
4-Chlorotoluene	106-43-4	7.40	0.00449		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	8.12	0.00378		0.000276	0.00500
1,2-Dibromoethane	106-93-4	6	0.00506		0.000126	0.00100
Dibromomethane	74-95-3	4.75	0.00514		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	7.83	0.00437		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	7.64	0.00509		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	7.67	0.00444		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	1.64	0.00412		0.000374	0.00500
1,1-Dichloroethane	75-34-3	3.40	0.00534		0.000100	0.00100
1,2-Dichloroethane	107-06-2	4.28	0.00480		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	2.63	0.00513		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	3.71	0.00518		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	3.07	0.00542		0.000149	0.00100
1,2-Dichloropropane	78-87-5	4.79	0.00517		0.000149	0.00100
1,1-Dichloropropene	563-58-6	4.03	0.00504		0.000142	0.00100
1,3-Dichloropropane	142-28-9	5.88	0.00514		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	5.19	0.00488		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	5.60	0.00395		0.000118	0.00100
2,2-Dichloropropane	594-20-7	3.76	0.00430		0.000161	0.00100
Di-isopropyl ether	108-20-3	3.30	0.00490		0.000105	0.00100
Ethylbenzene	100-41-4	6.32	0.00457		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	8.33	0.00370		0.000337	0.00100
Isopropylbenzene	98-82-8	6.93	0.00424		0.000105	0.00100
p-Isopropyltoluene	99-87-6	7.59	0.00440		0.000120	0.00100
2-Butanone (MEK)	78-93-3	4.01	0.0211		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: R3563465-2
Client Sample ID: LCSD
Lab File ID: 0825_03
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%):

SDG: L1253450
Collected Date/Time:
Received Date/Time:
Preparation Date/Time: 08/25/20 00:43
Analysis Date/Time: 08/25/20 00:43
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol:
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result mg/l	Qualifier	MDL mg/l	RDL mg/l
Methylene Chloride	75-09-2	2.97	0.00534		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	5.54	0.0210		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	3.10	0.00498		0.000101	0.00100
Naphthalene	91-20-3	8.48	0.00289		0.00100	0.00500
n-Propylbenzene	103-65-1	7.22	0.00472		0.0000993	0.00100
Styrene	100-42-5	6.77	0.00363	J4	0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	6.35	0.00529		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	7.26	0.00593		0.000133	0.00100
Tetrachloroethene	127-18-4	5.59	0.00463		0.000300	0.00100
Toluene	108-88-3	5.34	0.00481		0.000278	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	2.64	0.00442		0.000180	0.00100
1,2,3-Trichlorobenzene	87-61-6	8.55	0.00303		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	8.37	0.00391		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	3.96	0.00494		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	5.69	0.00511		0.000158	0.00100
Trichloroethene	79-01-6	4.50	0.00500		0.000190	0.00100
Trichlorofluoromethane	75-69-4	2.29	0.00416		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	7.34	0.00611		0.000237	0.00250
1,2,3-Trimethylbenzene	526-73-8	7.67	0.00413		0.000104	0.00100
1,2,4-Trimethylbenzene	95-63-6	7.50	0.00429		0.000322	0.00100
1,3,5-Trimethylbenzene	108-67-8	7.32	0.00484		0.000104	0.00100
Vinyl chloride	75-01-4	1.86	0.00537		0.000234	0.00100
Xylenes, Total	1330-20-7	6.72	0.0134		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_03.D
 Acq On : 25 Aug 2020 12:43 am
 Operator : 808
 Sample : LCSD 1x WG1531654
 Misc : water
 ALS Vial : 59 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:56:11 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.393	96	236178	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.309	82	99800	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZENE...	7.666	152	75500	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.393	96	234645	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.309	82	99800	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZENE...	7.666	152	75500	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.247	65	69126	15.0401112	ppb	0.00
Spiked Amount	16.000		Recovery	=	94.00%	
61) TOLUENE-D8	5.299	98	245011	15.0704424	ppb	0.00
Spiked Amount	16.000	Range 90 - 115	Recovery	=	94.19%	
80) 4-BROMOFLUOROBENZENE	7.155	95	85784	15.0623008	ppb	0.00
Spiked Amount	16.000	Range 80 - 120	Recovery	=	94.14%	
Target Compounds						
					Qvalue	
4) PROPENE	1.606	41	12644	3.6317584	ppb	97
5) DICHLORODIFLUOROMETHANE	1.637	85	35586	4.1211536	ppb	98
6) CHLOROMETHANE	1.825	50	34812	3.7408944	ppb	98
7) VINYL CHLORIDE	1.862	62	39093	5.3721830	ppb	95
8) 1,3-BUTADIENE	1.874	39	25076	4.5029126	ppb	97
9) BROMOMETHANE	2.105	94	9546	1.3682825	ppb	# 97
10) CHLOROETHANE	2.197	64	23583	5.6028290	ppb	# 91
11) VINYL BROMIDE	2.276	106	29162	6.2201241	ppb	98
12) TRICHLOROFLUOROMETHANE	2.288	101	39090	4.1631911	ppb	99
13) DICHLOROFLUOROMETHANE	2.324	67	58650	5.1421682	ppb	93
14) ETHYL ETHER	2.489	59	17587	5.1513577	ppb	98
15) ACROLEIN	2.847	56	13500	21.4820514	ppb	# 81
16) ETHANOL	2.592	45	14596	139.2344729	ppb	# 80
17) 1,1-DICHLOROETHENE	2.628	96	23584	5.1255809	ppb	97
18) 1,1,2-TRICHLOROTRIFLUO...	2.641	101	20830	4.4155489	ppb	92
19) ACETONE	3.000	43	42885	18.0851032	ppb	91
20) IODOMETHANE	2.726	142	45557	5.3579038	ppb	92
21) CARBON DISULFIDE	2.665	76	75201	5.4188213	ppb	96
22) ALLYL CHLORIDE	2.908	76	72824	27.5821378	ppb	84
23) METHYLENE CHLORIDE	2.969	84	27519	5.3430171	ppb	99
24) METHYL ACETATE	3.054	43	92430	22.0737223	ppb	# 94
25) ACRYLONITRILE	3.450	53	54598	20.5580478	ppb	98
26) n-HEXANE	3.091	56	12349	3.6896662	ppb	# 99
27) TRANS-1,2-DICHLOROETHENE	3.066	96	27330	5.4189455	ppb	98
28) METHYL TERT-BUTYL ETHER	3.103	73	71202	4.9834701	ppb	88
29) TERT-BUTYL ALCOHOL	3.146	59	22729	19.6669097	ppb	# 100
30) 1,1-DICHLOROETHANE	3.401	63	50455	5.3402431	ppb	99
31) VINYL ACETATE	3.523	43	209711	23.3227059	ppb	97
32) DI-ISOPROPYL ETHER	3.298	45	76860	4.9053267	ppb	100
33) ETHYL TERT-BUTYL ETHER	3.498	59	70169	4.8579291	ppb	99
34) 2,2-DICHLOROPROPANE	3.760	77	35460	4.3001356	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.705	96	29288	5.1818481	ppb	95
36) 2-BUTANONE (MEK)	4.009	43	75742	21.0629888	ppb	94
37) BROMOCHLOROMETHANE	3.821	130	18493	6.0913814	ppb	89
38) TETRAHYDROFURAN	3.949	42	9506	3.6074392	ppb	# 87
39) CHLOROFORM	3.839	83	51127	4.9201335	ppb	99
40) CYCLOHEXANE	3.821	84	27319	3.8918421	ppb	95
41) 1,1,1-TRICHLOROETHANE	3.961	97	42623	4.9381413	ppb	98

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_03.D
 Acq On : 25 Aug 2020 12:43 am
 Operator : 808
 Sample : LCSD 1x WG1531654
 Misc : water
 ALS Vial : 59 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:56:11 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
42) CARBON TETRACHLORIDE	3.930	117	36443	4.5525006	ppb		94
43) 1,1-DICHLOROPROPENE	4.034	75	34328	5.0349199	ppb		99
44) 2,2,4-TRIMETHYLPENTANE	4.064	57	23331	2.7315759	ppb		96
45) n-Heptane	4.113	71	5652	2.4016976	ppb	#	91
46) BENZENE	4.174	78	114264	5.2651459	ppb		95
47) TERT-AMYL METHYL ETHER	4.198	73	65950	4.4609127	ppb		97
49) 1,2-DICHLOROETHANE	4.283	62	31055	4.7993925	ppb		99
50) T-AMYL ALCOHOL	4.289	59	17884	17.6119242	ppb		99
51) TRICHLOROETHENE	4.496	132	29331	4.9966748	ppb		94
52) METHYL CYCLOHEXANE	4.490	83	23743	3.2887307	ppb		96
53) TERT-AMYL ETHYL ETHER	4.575	59	48518	4.6370318	ppb		94
54) 1,2-DICHLOROPROPANE	4.794	62	17422	5.1678398	ppb		94
55) DIBROMOMETHANE	4.752	93	15612	5.1393420	ppb		96
56) BROMODICHLOROMETHANE	4.819	83	33380	4.7462160	ppb		96
57) 2-CHLOROETHYL VINYL ETHER	5.129	63	72235	20.3712907	ppb		98
58) CIS-1,3-DICHLOROPROPENE	5.190	75	36712	4.8794856	ppb		98
60) 4-METHYL-2-PENTANONE (...)	5.542	43	173161	21.0368400	ppb		99
62) TOLUENE	5.336	91	118221	4.8098454	ppb		97
63) TRANS-1,3-DICHLOROPROPENE	5.597	75	26257	3.9482283	ppb		98
64) 1,1,2-TRICHLOROETHANE	5.695	97	24530	5.1064586	ppb		99
65) TETRACHLOROETHENE	5.585	164	24340	4.6290456	ppb		98
66) 1,3-DICHLOROPROPANE	5.877	76	37353	5.1372248	ppb		98
67) 2-HEXANONE	6.084	58	62764	19.6548905	ppb		97
68) CHLORODIBROMOMETHANE	5.822	129	28047	4.8419318	ppb		98
69) 1,2-DIBROMOETHANE	5.999	107	25830	5.0586691	ppb		96
70) CHLOROBENZENE	6.321	112	76148	5.0353454	ppb		96
71) 1,1,1,2-TETRACHLOROETHANE	6.352	133	27020	5.2904844	ppb	#	100
72) ETHYLBENZENE	6.321	106	37535	4.5657818	ppb		94
73) M&P-XYLENE	6.412	106	92525	8.8109926	ppb		97
74) O-XYLENE	6.717	106	45746	4.5476425	ppb		90
77) STYRENE	6.765	104	54009	3.6309484	ppb		100
78) BROMOFORM	6.796	173	23431	4.8181925	ppb		97
79) ISOPROPYLBENZENE	6.930	105	107158	4.2428875	ppb		99
82) BROMOBENZENE	7.228	77	40617	4.8472773	ppb		88
83) 1,1,2,2-TETRACHLOROETHANE	7.258	83	40026	5.9319668	ppb		100
84) 1,2,3-TRICHLOROPROPANE	7.343	110	11869	6.1078314	ppb		92
85) TRANS-1,4-DICHLORO-2-B...	7.368	53	5819	3.2936822	ppb	#	87
86) N-PROPYLBENZENE	7.215	91	112206	4.7202315	ppb		99
87) 4-ETHYLTOLUENE	7.276	105	91399	5.1440979	ppb		98
88) 2-CHLOROTOLUENE	7.319	91	75643	5.3546925	ppb		95
89) 4-CHLOROTOLUENE	7.404	91	56606	4.4870478	ppb		93
90) 1,3,5-TRIMETHYLBENZENE	7.319	105	80770	4.8394638	ppb		97
91) TERT-BUTYLBENZENE	7.471	119	64877	4.5406072	ppb		92
92) 1,2,4-TRIMETHYLBENZENE	7.501	105	58778	4.2940292	ppb		97
93) SEC-BUTYLBENZENE	7.544	105	69164	4.0592229	ppb		94
94) 1,3-DICHLOROBENZENE	7.641	146	37842	5.0897995	ppb		93
95) P-ISOPROPYLTOLUENE	7.593	119	61078	4.4030988	ppb		96
96) DICYCLOPENTADIENE	7.593	66	71658	4.3948612	ppb		95
97) 1,4-DICHLOROBENZENE	7.672	146	37732	4.4443996	ppb	#	87
98) 1,2,3-TRIMETHYLBENZENE	7.666	105	44706	4.1327134	ppb		92
99) 1,2-DICHLOROBENZENE	7.830	146	33362	4.3711052	ppb		100
100) N-BUTYLBENZENE	7.751	91	41410	3.5336588	ppb		97
101) 1,2-DIBROMO-3-CHLOROPR...	8.122	157	7396	3.7745303	ppb		89
102) 1,3,5-TRICHLOROBENZENE	8.134	180	19766	3.9999136	ppb		96
103) 1,2,4-TRICHLOROBENZENE	8.371	180	16039	3.9099238	ppb		98

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_03.D
Acq On : 25 Aug 2020 12:43 am
Operator : 808
Sample : LCSD 1x WG1531654
Misc : water
ALS Vial : 59 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Aug 25 10:56:11 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration

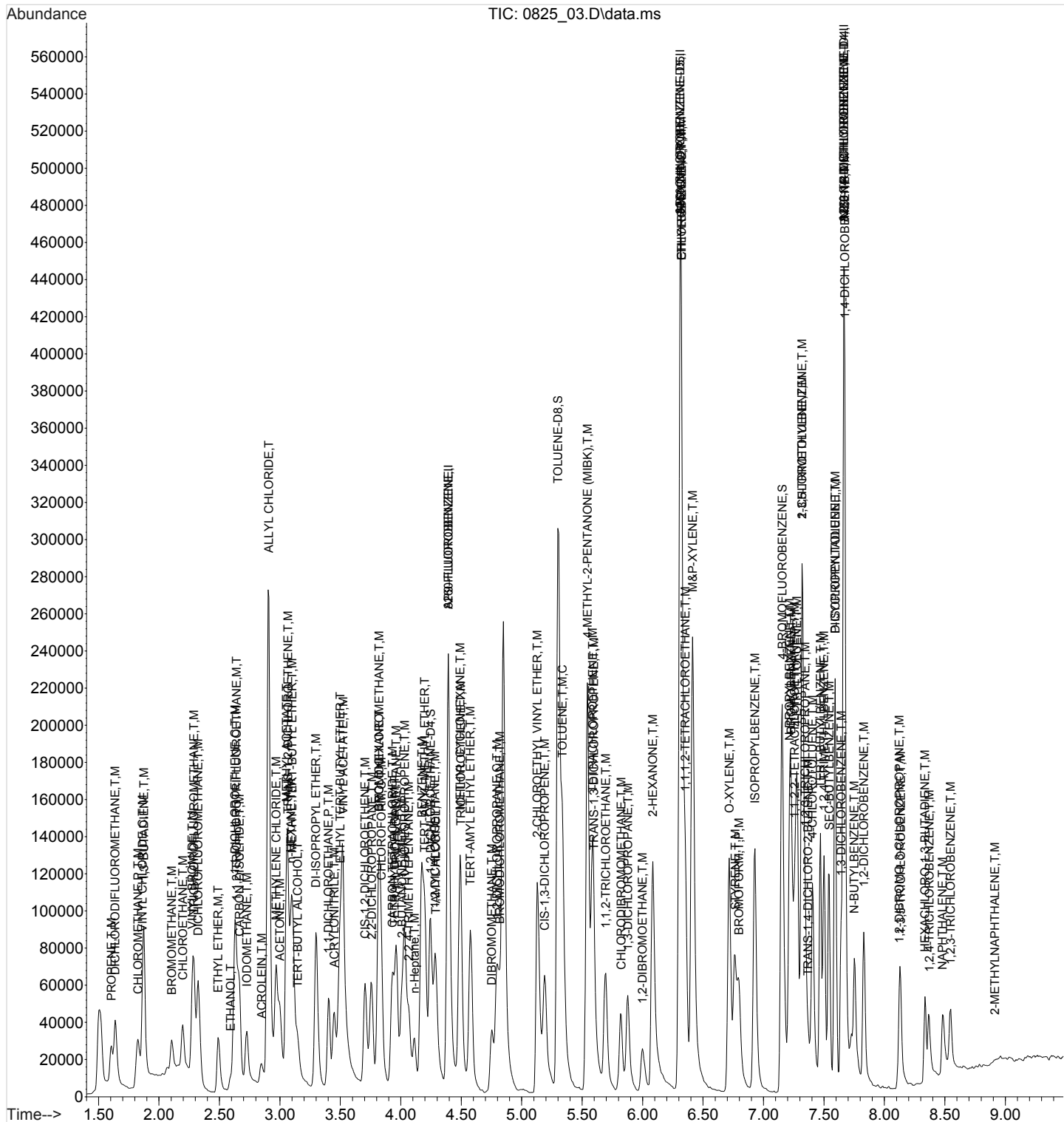
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
104) HEXACHLORO-1,3-BUTADIENE	8.335	225	7499	3.6982454	ppb		96
105) NAPHTHALENE	8.481	128	37081	2.8875813	ppb		98
106) 1,2,3-TRICHLOROBENZENE	8.548	180	11358	3.0258316	ppb		95
108) 2-METHYLNAPHTHALENE	8.913	142	622	0.2191564	ppb	#	9

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

(QT Reviewed)

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_03.D
Acq On : 25 Aug 2020 12:43 am
Operator : 808
Sample : LCSD 1x WG1531654
Misc : water
ALS Vial : 59 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Aug 25 10:56:11 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEETSAMPLE NO.:
R3563552-2

Lab Sample ID: R3563552-2
Client Sample ID: LCSD
Lab File ID: 0825_03
Instrument ID: VOCMS26
Analytical Batch: WG1531771
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: _____
Received Date/Time: _____
Preparation Date/Time: 08/25/20 07:01
Analysis Date/Time: 08/25/20 07:01
Prep Method: 624.1/8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	3.18	0.0220		0.0113	0.0500
Acrolein	107-02-8	3.02	0.0439	J4	0.00254	0.0500
Acrylonitrile	107-13-1	3.65	0.0264		0.000671	0.0100
Benzene	71-43-2	4.41	0.00529		0.0000941	0.00100
Bromobenzene	108-86-1	7.53	0.00485		0.000118	0.00100
Bromodichloromethane	75-27-4	5.07	0.00528		0.000136	0.00100
Bromoform	75-25-2	7.08	0.00469		0.000129	0.00100
Bromomethane	74-83-9	2.30	0.00539		0.000605	0.00500
n-Butylbenzene	104-51-8	8.48	0.00479		0.000157	0.00100
sec-Butylbenzene	135-98-8	8.04	0.00484		0.000125	0.00100
tert-Butylbenzene	98-06-6	7.91	0.00488		0.000127	0.00100
Carbon tetrachloride	56-23-5	4.16	0.00539		0.000128	0.00100
Chlorobenzene	108-90-7	6.60	0.00503		0.000116	0.00100
Chlorodibromomethane	124-48-1	6.09	0.00489		0.000140	0.00100
Chloroethane	75-00-3	2.39	0.00531		0.000192	0.00500
Chloroform	67-66-3	4.06	0.00564		0.000111	0.00500
Chloromethane	74-87-3	1.97	0.00542		0.000960	0.00250
2-Chlorotoluene	95-49-8	7.66	0.00515		0.000106	0.00100
4-Chlorotoluene	106-43-4	7.78	0.00500		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	9.28	0.00443		0.000276	0.00500
1,2-Dibromoethane	106-93-4	6.26	0.00492		0.000126	0.00100
Dibromomethane	74-95-3	4.99	0.00507		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	8.64	0.00507		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	8.24	0.00502		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	8.31	0.00503		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	1.78	0.00459		0.000374	0.00500
1,1-Dichloroethane	75-34-3	3.62	0.00544		0.000100	0.00100
1,2-Dichloroethane	107-06-2	4.52	0.00542		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	2.81	0.00536		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	3.92	0.00544		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	3.26	0.00562		0.000149	0.00100
1,2-Dichloropropane	78-87-5	5.05	0.00537		0.000149	0.00100
1,1-Dichloropropene	563-58-6	4.26	0.00538		0.000142	0.00100
1,3-Dichloropropane	142-28-9	6.15	0.00521		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	5.45	0.00512		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	5.85	0.00484		0.000118	0.00100
2,2-Dichloropropane	594-20-7	3.98	0.00465		0.000161	0.00100
Di-isopropyl ether	108-20-3	3.51	0.00580		0.000105	0.00100
Ethylbenzene	100-41-4	6.60	0.00508		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	9.79	0.00451		0.000337	0.00100
Isopropylbenzene	98-82-8	7.22	0.00495		0.000105	0.00100
p-Isopropyltoluene	99-87-6	8.15	0.00493		0.000120	0.00100
2-Butanone (MEK)	78-93-3	4.23	0.0262		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R3563552-2	SDG:	L1253450
Client Sample ID:	LCSD	Collected Date/Time:	
Lab File ID:	0825_03	Received Date/Time:	
Instrument ID:	VOCMS26	Preparation Date/Time:	08/25/20 07:01
Analytical Batch:	WG1531771	Analysis Date/Time:	08/25/20 07:01
Dilution Factor:	1	Prep Method:	624.1/8260B
Analytical Method:	8260B	Sample Vol Used:	5 mL
Matrix:	GW	Initial Wt/Vol:	
Total Solids (%):		Final Wt/Vol:	5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	3.16	0.00523		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	5.81	0.0268		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	3.31	0.00496		0.000101	0.00100
Naphthalene	91-20-3	10.10	0.00413		0.00100	0.00500
n-Propylbenzene	103-65-1	7.52	0.00518		0.0000993	0.00100
Styrene	100-42-5	7.04	0.00496		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	6.63	0.00491		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	7.57	0.00473		0.000133	0.00100
Tetrachloroethene	127-18-4	5.85	0.00513		0.000300	0.00100
Toluene	108-88-3	5.60	0.00512		0.000278	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	2.85	0.00432		0.000180	0.00100
1,2,3-Trichlorobenzene	87-61-6	10.26	0.00424		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	9.83	0.00462		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	4.20	0.00577		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	5.96	0.00494		0.000158	0.00100
Trichloroethene	79-01-6	4.73	0.00547		0.000190	0.00100
Trichlorofluoromethane	75-69-4	2.47	0.00503		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	7.69	0.00525		0.000237	0.00250
1,2,3-Trimethylbenzene	526-73-8	8.31	0.00466		0.000104	0.00100
1,2,4-Trimethylbenzene	95-63-6	7.96	0.00493		0.000322	0.00100
1,3,5-Trimethylbenzene	108-67-8	7.66	0.00501		0.000104	0.00100
Vinyl chloride	75-01-4	2.04	0.00498		0.000234	0.00100
Xylenes, Total	1330-20-7	7.01	0.0153		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 03.D
 Acq On : 25 Aug 2020 7:01 am
 Operator : 1006
 Sample : LCSD 1x WG1531771
 Misc : soil
 ALS Vial : 3 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 25 14:05:00 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	602109	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	272825	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.293	152	273317	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.635	96	602109	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.592	82	272825	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	8.293	152	273317	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.483	65	191409	16.4732594	ppb	0.00
Spiked Amount 16.000			Recovery	= 102.96%		
61) TOLUENE-D8	5.568	98	633866	15.9246266	ppb	0.00
Spiked Amount 16.000	Range 89 - 115		Recovery	= 99.53%		
80) 4-BROMOFLUOROBENZENE	7.446	95	249662	16.2507583	ppb	0.00
Spiked Amount 16.000	Range 70 - 129		Recovery	= 101.57%		
Target Compounds						
					Qvalue	
4) PROPENE	1.745	41	17231	3.1504458	ppb	98
5) DICHLORODIFLUOROMETHANE	1.782	85	57274	4.5847562	ppb	98
6) CHLOROMETHANE	1.971	50	61973	5.4151762	ppb	96
7) VINYL CHLORIDE	2.038	62	54811	4.9801680	ppb	99
8) 1,3-BUTADIENE	2.032	39	38974	4.2808558	ppb	86
9) BROMOMETHANE	2.300	94	43281	5.3880636	ppb	97
10) CHLOROETHANE	2.392	64	31820	5.3137419	ppb	96
11) VINYL BROMIDE	2.471	106	49266	5.5052799	ppb	95
12) TRICHLOROFLUOROMETHANE	2.471	101	68090	5.0280985	ppb	99
13) DICHLOROFLUOROMETHANE	2.520	67	101553	5.8657772	ppb	99
14) ETHYL ETHER	2.660	59	44138	5.2131037	ppb	96
15) ACROLEIN	3.020	56	19080	43.9447419	ppb	96
16) ETHANOL	2.751	45	11277	85.7651299	ppb	# 91
17) 1,1-DICHLOROETHENE	2.806	96	42490	5.3586088	ppb	91
18) 1,1,2-TRICHLOROTRIFLUO...	2.849	101	34951	4.3173632	ppb	96
19) ACETONE	3.184	43	86563	21.9932310	ppb	99
20) IODOMETHANE	2.910	142	477974	27.4853806	ppb	97
21) CARBON DISULFIDE	2.843	76	130541	5.2423859	ppb	98
22) ALLYL CHLORIDE	3.099	76	140060	26.1145875	ppb	97
23) METHYLENE CHLORIDE	3.160	84	52983	5.2303829	ppb	93
24) METHYL ACETATE	3.245	43	220350	27.7730689	ppb	# 99
25) ACRYLONITRILE	3.647	53	137794	26.4299154	ppb	99
26) n-HEXANE	3.294	56	21694	4.3035988	ppb	# 97
27) TRANS-1,2-DICHLOROETHENE	3.257	96	51045	5.6231455	ppb	96
28) METHYL TERT-BUTYL ETHER	3.306	73	143169	4.9559011	ppb	92
29) TERT-BUTYL ALCOHOL	3.343	59	27391	15.6711469	ppb	# 100
30) 1,1-DICHLOROETHANE	3.617	63	94606	5.4368420	ppb	100
31) VINYL ACETATE	3.727	43	586651	27.4925238	ppb	99
32) DI-ISOPROPYL ETHER	3.507	45	178390	5.7982526	ppb	99
33) ETHYL TERT-BUTYL ETHER	3.715	59	159740	5.3398163	ppb	98
34) 2,2-DICHLOROPROPANE	3.983	77	52089	4.6494665	ppb	100
35) CIS-1,2-DICHLOROETHENE	3.922	96	57079	5.4380452	ppb	95
36) 2-BUTANONE (MEK)	4.227	43	177325	26.1706175	ppb	99
37) BROMOCHLOROMETHANE	4.038	130	39548	5.5005584	ppb	99
38) TETRAHYDROFURAN	4.166	42	23118	5.0254600	ppb	95
39) CHLOROFORM	4.062	83	95148	5.6380364	ppb	99
40) CYCLOHEXANE	4.050	84	46277	4.4089778	ppb	97

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 03.D
 Acq On : 25 Aug 2020 7:01 am
 Operator : 1006
 Sample : LCSD 1x WG1531771
 Misc : soil
 ALS Vial : 3 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 25 14:05:00 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-TRICHLOROETHANE	4.196	97	82214	5.7748554	ppb	95
42) CARBON TETRACHLORIDE	4.160	117	67334	5.3903578	ppb	98
43) 1,1-DICHLOROPROPENE	4.263	75	66034	5.3821237	ppb	98
44) 2,2,4-TRIMETHYLPENTANE	4.300	57	49113	3.9003448	ppb	94
45) n-Heptane	4.342	71	12121	3.3937211	ppb	# 95
46) BENZENE	4.410	78	205358	5.2886234	ppb	97
47) TERT-AMYL METHYL ETHER	4.434	73	153553	5.3160511	ppb	98
49) 1,2-DICHLOROETHANE	4.519	62	73902	5.4206098	ppb	98
50) T-AMYL ALCOHOL	4.525	59	36148	21.7002175	ppb	87
51) TRICHLOROETHENE	4.733	132	59376	5.4645750	ppb	99
52) METHYL CYCLOHEXANE	4.733	83	38924	3.9633966	ppb	97
53) TERT-AMYL ETHYL ETHER	4.824	59	123490	5.3517405	ppb	99
54) 1,2-DICHLOROPROPANE	5.050	62	37432	5.3752728	ppb	96
55) DIBROMOMETHANE	4.995	93	35136	5.0663002	ppb	99
56) BROMODICHLOROMETHANE	5.068	83	69886	5.2842602	ppb	96
57) 2-CHLOROETHYL VINYL ETHER	5.385	63	197656	27.1768575	ppb	100
58) CIS-1,3-DICHLOROPROPENE	5.446	75	81147	5.1153797	ppb	98
60) 4-METHYL-2-PENTANONE (...)	5.812	43	382535	26.8450033	ppb	98
62) TOLUENE	5.598	91	228411	5.1200128	ppb	100
63) TRANS-1,3-DICHLOROPROPENE	5.848	75	73291	4.8440812	ppb	98
64) 1,1,2-TRICHLOROETHANE	5.958	97	48816	4.9377334	ppb	98
65) TETRACHLOROETHENE	5.854	164	42993	5.1274675	ppb	97
66) 1,3-DICHLOROPROPANE	6.147	76	81012	5.2063426	ppb	98
67) 2-HEXANONE	6.354	58	143359	24.1606210	ppb	95
68) CHLORODIBROMOMETHANE	6.086	129	56880	4.8848103	ppb	99
69) 1,2-DIBROMOETHANE	6.263	107	53447	4.9214024	ppb	100
70) CHLOROENZENE	6.604	112	141273	5.0290094	ppb	98
71) 1,1,1,2-TETRACHLOROETHANE	6.635	133	51309	4.9111644	ppb	# 100
72) ETHYLBENZENE	6.598	106	71989	5.0790528	ppb	96
73) M&P-XYLENE	6.696	106	175909	10.2468998	ppb	100
74) O-XYLENE	7.007	106	83127	4.9728796	ppb	97
77) STYRENE	7.037	104	138201	4.9604843	ppb	97
78) BROMOFORM	7.080	173	41761	4.6863975	ppb	97
79) ISOPROPYLBENZENE	7.220	105	195481	4.9482714	ppb	100
82) BROMOBENZENE	7.531	77	86364	4.8474357	ppb	98
83) 1,1,2,2-TETRACHLOROETHANE	7.574	83	67772	4.7265450	ppb	99
84) 1,2,3-TRICHLOROPROPANE	7.689	110	22163	5.2525047	ppb	96
85) TRANS-1,4-DICHLORO-2-B...	7.708	53	14028	3.7690408	ppb	89
86) N-PROPYLBENZENE	7.525	91	213425	5.1752483	ppb	99
87) 4-ETHYLTOLUENE	7.598	105	173693	5.0407102	ppb	99
88) 2-CHLOROTOLUENE	7.659	91	143594	5.1542420	ppb	99
89) 4-CHLOROTOLUENE	7.781	91	135994	4.9954912	ppb	100
90) 1,3,5-TRIMETHYLBENZENE	7.659	105	146076	5.0094111	ppb	97
91) TERT-BUTYLBENZENE	7.909	119	122550	4.8839883	ppb	99
92) 1,2,4-TRIMETHYLBENZENE	7.958	105	143072	4.9300721	ppb	97
93) SEC-BUTYLBENZENE	8.043	105	153027	4.8353611	ppb	100
94) 1,3-DICHLOROENZENE	8.238	146	84508	5.0176744	ppb	100
95) P-ISOPROPYLTOLUENE	8.147	119	139310	4.9286949	ppb	98
96) DICYCLOPENTADIENE	8.153	66	169529	4.9714022	ppb	99
97) 1,4-DICHLOROENZENE	8.305	146	87803	5.0331608	ppb	95
98) 1,2,3-TRIMETHYLBENZENE	8.305	105	115364	4.6575564	ppb	100
99) 1,2-DICHLOROENZENE	8.640	146	82271	5.0683304	ppb	96
100) N-BUTYLBENZENE	8.476	91	101767	4.7868779	ppb	98
101) 1,2-DIBROMO-3-CHLOROPR...	9.281	157	16944	4.4312685	ppb	94

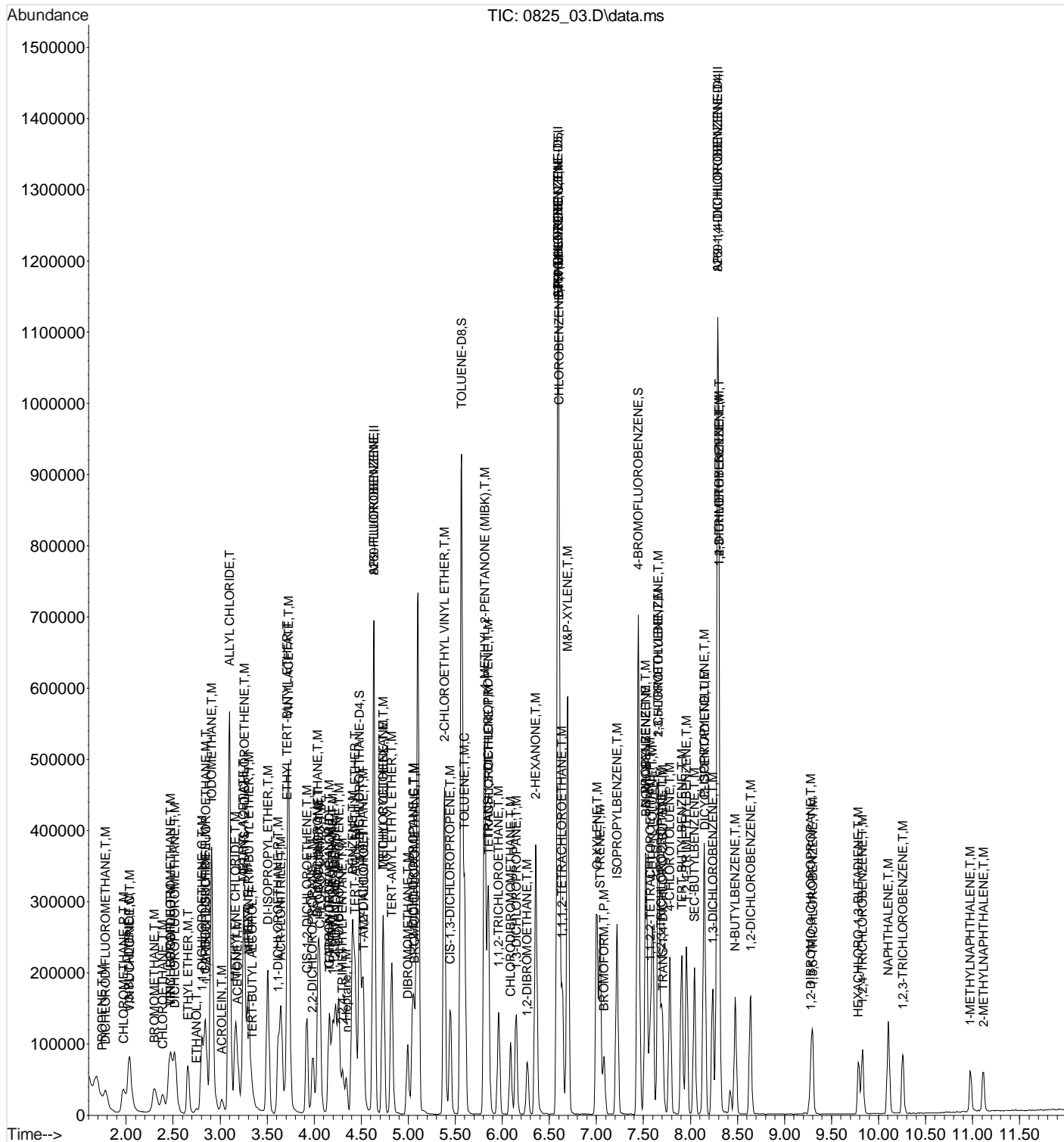
Data Path : C:\msdchem\1\data\082520\
Data File : 0825 03.D
Acq On : 25 Aug 2020 7:01 am
Operator : 1006
Sample : LCSD 1x WG1531771
Misc : soil
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS26

Quant Time: Aug 25 14:05:00 2020
Quant Method : C:\msdchem\1\methods\V826H21T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 09:38:52 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) 1,3,5-TRICHLOROBENZENE	9.299	180	38969	4.8020625	ppb	99
103) 1,2,4-TRICHLOROBENZENE	9.829	180	33364	4.6165403	ppb	98
104) HEXACHLORO-1,3-BUTADIENE	9.787	225	15314	4.5132454	ppb	98
105) NAPHTHALENE	10.104	128	120385	4.1330991	ppb	99
106) 1,2,3-TRICHLOROBENZENE	10.256	180	29635	4.2393146	ppb	99
107) 1-METHYLNAPHTHALENE	10.975	142	33198	3.7656104	ppb	99
108) 2-METHYLNAPHTHALENE	11.116	142	34096	4.0903146	ppb	96

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

Quant Time: Aug 25 14:05:00 2020
Quant Method : C:\msdchem\1\methods\V826H21T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 09:38:52 2020
Response via : Initial Calibration



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEETSAMPLE NO.:
R3563465-4

Lab Sample ID: R3563465-4
Client Sample ID: MS
Lab File ID: 0825_31
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/18/20 14:06
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 10:13
Analysis Date/Time: 08/25/20 10:13
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result mg/l	Qualifier	MDL mg/l	RDL mg/l
Acetone	67-64-1	3	ND		0.0113	0.0500
Acrolein	107-02-8	2.84	ND		0.00254	0.0500
Acrylonitrile	107-13-1	3.44	0.0274		0.000671	0.0100
Benzene	71-43-2	4.17	0.00685		0.0000941	0.00100
Bromobenzene	108-86-1	7.23	0.00590		0.000118	0.00100
Bromodichloromethane	75-27-4	4.82	0.00647		0.000136	0.00100
Bromoform	75-25-2	6.80	0.00618		0.000129	0.00100
Bromomethane	74-83-9	2.10	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	7.75	0.00375		0.000157	0.00100
sec-Butylbenzene	135-98-8	7.54	0.00473		0.000125	0.00100
tert-Butylbenzene	98-06-6	7.47	0.00522		0.000127	0.00100
Carbon tetrachloride	56-23-5	3.93	0.00672		0.000128	0.00100
Chlorobenzene	108-90-7	6.32	0.00647		0.000116	0.00100
Chlorodibromomethane	124-48-1	5.82	0.00631		0.000140	0.00100
Chloroethane	75-00-3	2.20	0.0106	J5	0.000192	0.00500
Chloroform	67-66-3	3.84	0.00658		0.000111	0.00500
Chloromethane	74-87-3	1.83	0.00495		0.000960	0.00250
2-Chlorotoluene	95-49-8	7.32	0.00608		0.000106	0.00100
4-Chlorotoluene	106-43-4	7.40	0.00516		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	8.12	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	6	0.00661		0.000126	0.00100
Dibromomethane	74-95-3	4.75	0.00670		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	7.83	0.00520		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	7.64	0.00517		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	7.67	0.00571		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	1.64	0.00681		0.000374	0.00500
1,1-Dichloroethane	75-34-3	3.40	0.00710		0.000100	0.00100
1,2-Dichloroethane	107-06-2	4.28	0.00636		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	2.62	0.00722		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	3.70	0.00706		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	3.06	0.00717		0.000149	0.00100
1,2-Dichloropropane	78-87-5	4.79	0.00744		0.000149	0.00100
1,1-Dichloropropene	563-58-6	4.03	0.00679		0.000142	0.00100
1,3-Dichloropropane	142-28-9	5.88	0.00673		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	5.20	0.00539		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	5.60	0.00466		0.000118	0.00100
2,2-Dichloropropane	594-20-7	3.75	0.00646		0.000161	0.00100
Di-isopropyl ether	108-20-3	3.30	0.00643		0.000105	0.00100
Ethylbenzene	100-41-4	6.31	0.00582		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	8.33	0.00407		0.000337	0.00100
Isopropylbenzene	98-82-8	6.93	0.00536		0.000105	0.00100
p-Isopropyltoluene	99-87-6	7.59	0.00478		0.000120	0.00100
2-Butanone (MEK)	78-93-3	4	0.0293		0.00119	0.0100

Lab Sample ID:	R3563465-4	SDG:	L1253450
Client Sample ID:	MS	Collected Date/Time:	08/18/20 14:06
Lab File ID:	0825_31	Received Date/Time:	08/21/20 09:31
Instrument ID:	VOCMS7	Preparation Date/Time:	08/25/20 10:13
Analytical Batch:	WG1531654	Analysis Date/Time:	08/25/20 10:13
Dilution Factor:	1	Prep Method:	8260B
Analytical Method:	8260B	Sample Vol Used:	5 mL
Matrix:	GW	Initial Wt/Vol:	
Total Solids (%):		Final Wt/Vol:	5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	2.97	0.00746	J5	0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	5.54	0.0271		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	3.10	0.00654		0.000101	0.00100
Naphthalene	91-20-3	8.48	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	7.22	0.00534		0.0000993	0.00100
Styrene	100-42-5	6.76	0.00500		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	6.35	0.00673		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	7.26	0.00702		0.000133	0.00100
Tetrachloroethene	127-18-4	5.58	0.00607		0.000300	0.00100
Toluene	108-88-3	5.34	0.00591		0.000278	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	2.63	0.00752		0.000180	0.00100
1,2,3-Trichlorobenzene	87-61-6	8.55	0.00366		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	8.36	0.00419		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	3.96	0.00696		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	5.69	0.00667		0.000158	0.00100
Trichloroethene	79-01-6	4.50	0.00669		0.000190	0.00100
Trichlorofluoromethane	75-69-4	2.29	0.00718		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	7.34	0.00714		0.000237	0.00250
1,2,3-Trimethylbenzene	526-73-8	7.67	0.00495		0.000104	0.00100
1,2,4-Trimethylbenzene	95-63-6	7.50	0.00512		0.000322	0.00100
1,3,5-Trimethylbenzene	108-67-8	7.32	0.00539		0.000104	0.00100
Vinyl chloride	75-01-4	1.86	0.00768		0.000234	0.00100
Xylenes, Total	1330-20-7	6.72	0.0166		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_31.D
 Acq On : 25 Aug 2020 10:13 am
 Operator : 808
 Sample : MS 1x WG1531654 L1253450-07
 Misc : water
 ALS Vial : 31 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:54:15 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.392	96	212287	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.309	82	93442	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.665	152	76864	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.392	96	210934	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.309	82	93442	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.665	152	76864	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.246	65	64608	15.6391073	ppb	0.00
Spiked Amount	16.000		Recovery	=	97.74%	
61) TOLUENE-D8	5.305	98	218327	14.3428773	ppb	0.00
Spiked Amount	16.000	Range 90 - 115	Recovery	=	89.64%#	
80) 4-BROMOFLUOROBENZENE	7.154	95	75958	14.2444918	ppb	0.00
Spiked Amount	16.000	Range 80 - 120	Recovery	=	89.03%	
Target Compounds						
3) LRH (C5-C8)	4.000	TIC	2214274m	0.0813967	ppm	
4) PROPENE	1.606	41	23041	7.3629156	ppb	96
5) DICHLORODIFLUOROMETHANE	1.637	85	52896	6.8151983	ppb	97
6) CHLOROMETHANE	1.825	50	41376	4.9466481	ppb	98
7) VINYL CHLORIDE	1.862	62	50247	7.6820651	ppb	# 71
8) 1,3-BUTADIENE	1.874	39	34930	6.9783040	ppb	89
9) BROMOMETHANE	2.105	94	8940	1.4513336	ppb	95
10) CHLOROETHANE	2.196	64	38862	10.5963579	ppb	# 78
11) VINYL BROMIDE	2.275	106	38393	9.1106599	ppb	100
12) TRICHLOROFLUOROMETHANE	2.288	101	60579	7.1779234	ppb	97
13) DICHLOROFLUOROMETHANE	2.324	67	74259	7.2434155	ppb	98
14) ETHYL ETHER	2.488	59	20958	6.8296086	ppb	95
15) ACROLEIN	2.841	56	20351	36.0283007	ppb	90
16) ETHANOL	2.592	45	19169	201.6356017	ppb	# 79
17) 1,1-DICHLOROETHENE	2.622	96	29847	7.2167615	ppb	98
18) 1,1,2-TRICHLOROTRIFLUO...	2.634	101	31881	7.5187113	ppb	96
19) ACETONE	2.999	43	50735	23.8034157	ppb	# 84
20) IODOMETHANE	2.726	142	41917	5.4846134	ppb	# 89
21) CARBON DISULFIDE	2.665	76	89022	7.1366533	ppb	# 94
22) ALLYL CHLORIDE	2.902	76	89824	37.8496463	ppb	84
23) METHYLENE CHLORIDE	2.969	84	34537	7.4602704	ppb	95
24) METHYL ACETATE	3.054	43	114665	30.4655861	ppb	# 98
25) ACRYLONITRILE	3.443	53	65330	27.3674187	ppb	99
26) n-HEXANE	3.091	56	17678	5.8763068	ppb	# 93
27) TRANS-1,2-DICHLOROETHENE	3.060	96	32479	7.1646312	ppb	96
28) METHYL TERT-BUTYL ETHER	3.103	73	83923	6.5348663	ppb	98
29) TERT-BUTYL ALCOHOL	3.145	59	25281	24.3369463	ppb	# 100
30) 1,1-DICHLOROETHANE	3.401	63	60325	7.1034641	ppb	98
31) VINYL ACETATE	3.516	43	251361	31.1008073	ppb	99
32) DI-ISOPROPYL ETHER	3.297	45	90493	6.4253766	ppb	100
33) ETHYL TERT-BUTYL ETHER	3.498	59	81097	6.2463558	ppb	99
34) 2,2-DICHLOROPROPANE	3.754	77	47887	6.4606630	ppb	100
35) CIS-1,2-DICHLOROETHENE	3.705	96	35884	7.0633683	ppb	96
36) 2-BUTANONE (MEK)	4.003	43	94809	29.3324835	ppb	91
37) BROMOCHLOROMETHANE	3.814	130	23102	8.4659177	ppb	93
38) TETRAHYDROFURAN	3.948	42	10717	4.5247072	ppb	87
39) CHLOROFORM	3.839	83	61424	6.5762863	ppb	99
40) CYCLOHEXANE	3.821	84	38709	6.1350543	ppb	95

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_31.D
 Acq On : 25 Aug 2020 10:13 am
 Operator : 808
 Sample : MS 1x WG1531654 L1253450-07
 Misc : water
 ALS Vial : 31 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:54:15 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-TRICHLOROETHANE	3.960	97	53957	6.9547790	ppb	97
42) CARBON TETRACHLORIDE	3.930	117	48341	6.7184264	ppb	95
43) 1,1-DICHLOROPROPENE	4.027	75	41589	6.7863863	ppb	98
44) 2,2,4-TRIMETHYLPENTANE	4.064	57	34242	4.4602077	ppb	96
45) n-Heptane	4.113	71	8664	4.0959124	ppb	# 89
46) BENZENE	4.167	78	133555	6.8466351	ppb	97
47) TERT-AMYL METHYL ETHER	4.198	73	79316	5.9687828	ppb	97
49) 1,2-DICHLOROETHANE	4.283	62	36988	6.3596267	ppb	96
50) T-AMYL ALCOHOL	4.289	59	20913	22.9126080	ppb	97
51) TRICHLOROETHENE	4.496	132	35294	6.6891531	ppb	94
52) METHYL CYCLOHEXANE	4.490	83	34090	5.2533430	ppb	97
53) TERT-AMYL ETHYL ETHER	4.575	59	57248	6.0871436	ppb	96
54) 1,2-DICHLOROPROPANE	4.794	62	22537	7.4374349	ppb	92
55) DIBROMOMETHANE	4.751	93	18289	6.6981517	ppb	93
56) BROMODICHLOROMETHANE	4.818	83	40866	6.4645655	ppb	94
58) CIS-1,3-DICHLOROPROPENE	5.195	75	36476	5.3937305	ppb	100
60) 4-METHYL-2-PENTANONE (...)	5.542	43	208922	27.1083453	ppb	99
62) TOLUENE	5.335	91	135915	5.9059844	ppb	99
63) TRANS-1,3-DICHLOROPROPENE	5.597	75	29004	4.6580427	ppb	# 98
64) 1,1,2-TRICHLOROETHANE	5.688	97	30005	6.6712055	ppb	99
65) TETRACHLOROETHENE	5.585	164	29863	6.0658649	ppb	97
66) 1,3-DICHLOROPROPANE	5.877	76	45843	6.7338670	ppb	92
67) 2-HEXANONE	6.084	58	77249	25.8369531	ppb	94
68) CHLORODIBROMOMETHANE	5.816	129	34234	6.3121646	ppb	99
69) 1,2-DIBROMOETHANE	5.998	107	31602	6.6102038	ppb	99
70) CHLOROBENZENE	6.321	112	91615	6.4703201	ppb	96
71) 1,1,1,2-TETRACHLOROETHANE	6.351	133	32183	6.7301545	ppb	# 100
72) ETHYLBENZENE	6.315	106	44775	5.8170493	ppb	94
73) M&P-XYLENE	6.412	106	109667	11.1539867	ppb	97
74) O-XYLENE	6.716	106	50903	5.4046178	ppb	94
77) STYRENE	6.759	104	69652	5.0012198	ppb	93
78) BROMOFORM	6.795	173	28135	6.1791489	ppb	97
79) ISOPROPYLBENZENE	6.929	105	126680	5.3571448	ppb	96
82) BROMOBENZENE	7.227	77	50328	5.8996150	ppb	94
83) 1,1,2,2-TETRACHLOROETHANE	7.258	83	48212	7.0183600	ppb	98
84) 1,2,3-TRICHLOROPROPANE	7.343	110	14123	7.1387774	ppb	95
85) TRANS-1,4-DICHLORO-2-B...	7.361	53	7650	4.2532288	ppb	# 85
86) N-PROPYLBENZENE	7.215	91	129293	5.3425205	ppb	97
87) 4-ETHYLTOLUENE	7.276	105	106365	5.8801783	ppb	93
88) 2-CHLOROTOLUENE	7.319	91	87468	6.0818956	ppb	97
89) 4-CHLOROTOLUENE	7.404	91	66329	5.1644687	ppb	95
90) 1,3,5-TRIMETHYLBENZENE	7.319	105	91613	5.3917313	ppb	93
91) TERT-BUTYLBENZENE	7.471	119	75877	5.2162367	ppb	95
92) 1,2,4-TRIMETHYLBENZENE	7.501	105	71337	5.1190457	ppb	98
93) SEC-BUTYLBENZENE	7.538	105	82075	4.7314871	ppb	95
94) 1,3-DICHLOROBENZENE	7.641	146	39160	5.1736048	ppb	92
95) P-ISOPROPYLTOLUENE	7.592	119	67520	4.7811242	ppb	96
96) DICYCLOPENTADIENE	7.592	66	79449	4.7862225	ppb	# 91
97) 1,4-DICHLOROBENZENE	7.671	146	49310	5.7050867	ppb	74
98) 1,2,3-TRIMETHYLBENZENE	7.665	105	54530	4.9514106	ppb	97
99) 1,2-DICHLOROBENZENE	7.830	146	40432	5.2034139	ppb	97
100) N-BUTYLBENZENE	7.751	91	44734	3.7495667	ppb	96
101) 1,2-DIBROMO-3-CHLOROPR...	8.122	157	9419	4.7216607	ppb	94
102) 1,3,5-TRICHLOROBENZENE	8.128	180	22268	4.4262608	ppb	99
103) 1,2,4-TRICHLOROBENZENE	8.365	180	17487	4.1872634	ppb	94

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_31.D
Acq On : 25 Aug 2020 10:13 am
Operator : 808
Sample : MS 1x WG1531654 L1253450-07
Misc : water
ALS Vial : 31 Sample Multiplier: 1
InstName : VOCMS7

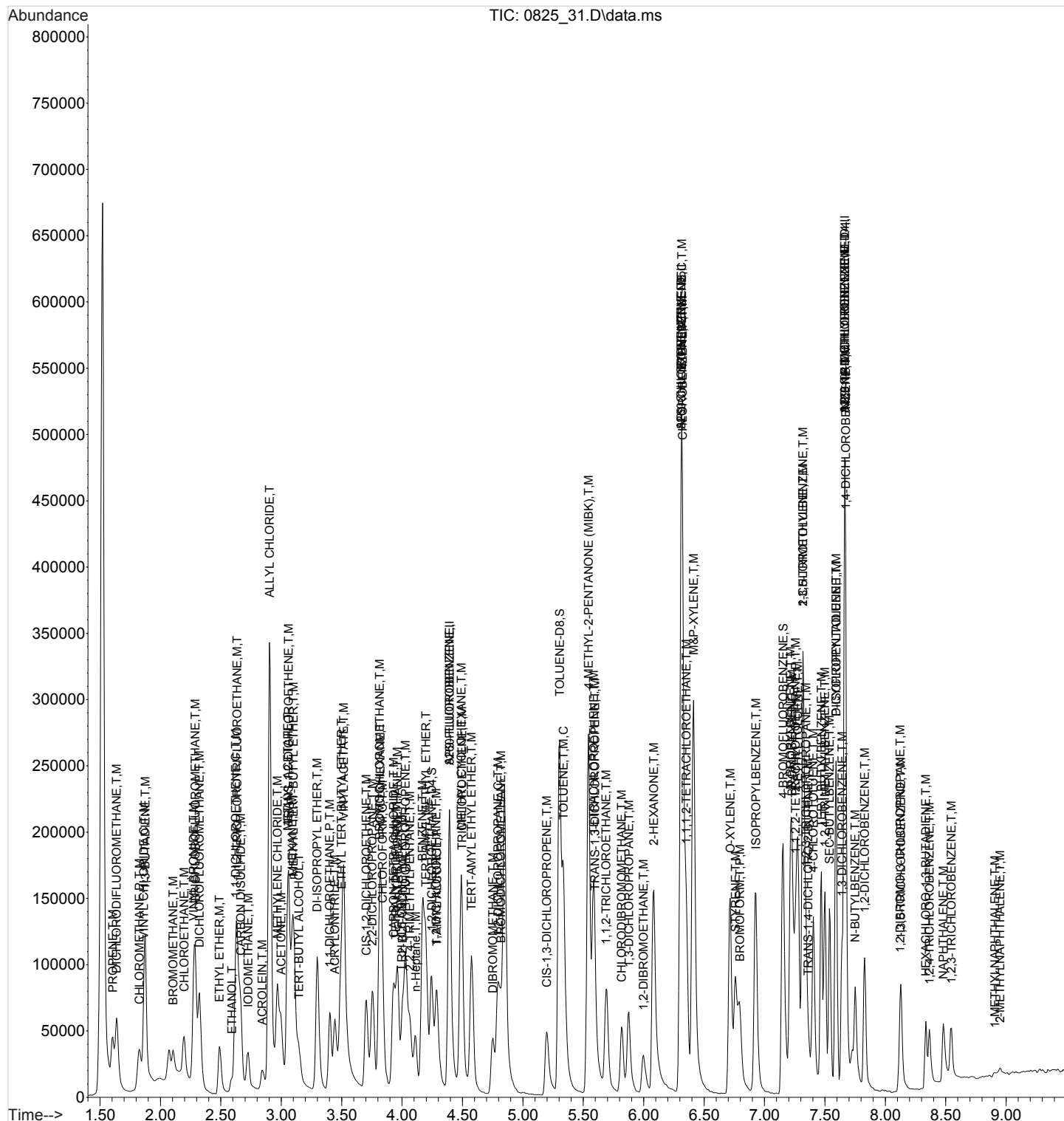
Quant Time: Aug 25 10:54:15 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) HEXACHLORO-1,3-BUTADIENE	8.335	225	8404	4.0710120	ppb	99
105) NAPHTHALENE	8.481	128	45797	3.5030294	ppb	97
106) 1,2,3-TRICHLOROBENZENE	8.547	180	14000	3.6634890	ppb	96
107) 1-METHYLNAPHTHALENE	8.906	142	1377m	0.4615431	ppb	
108) 2-METHYLNAPHTHALENE	8.949	142	4478	1.5497864	ppb	86

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

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_31.D
 Acq On : 25 Aug 2020 10:13 am
 Operator : 808
 Sample : MS 1x WG1531654 L1253450-07
 Misc : water
 ALS Vial : 31 Sample Multiplier: 1
 InstName : VOCMS7

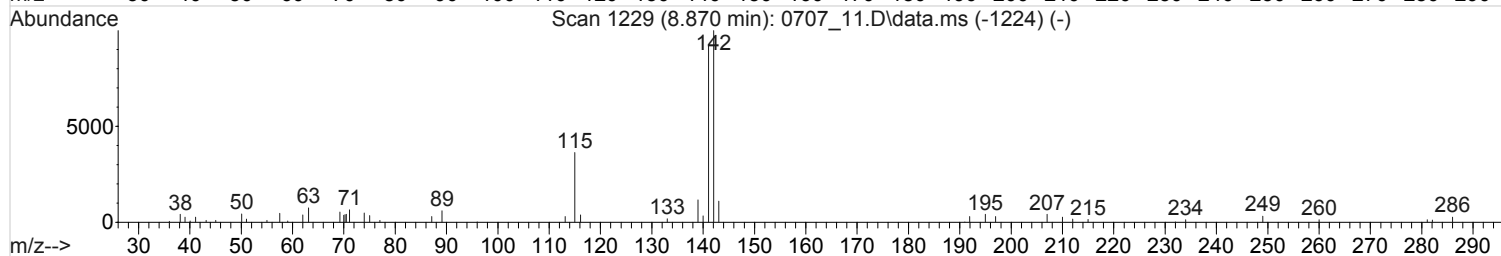
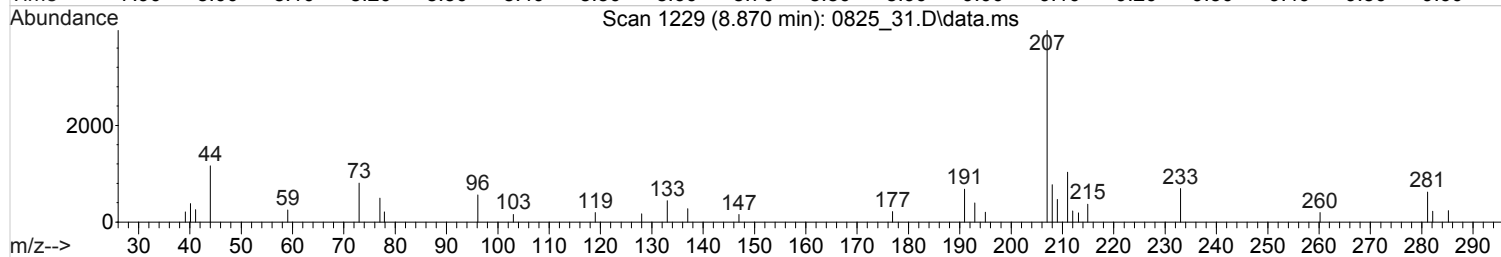
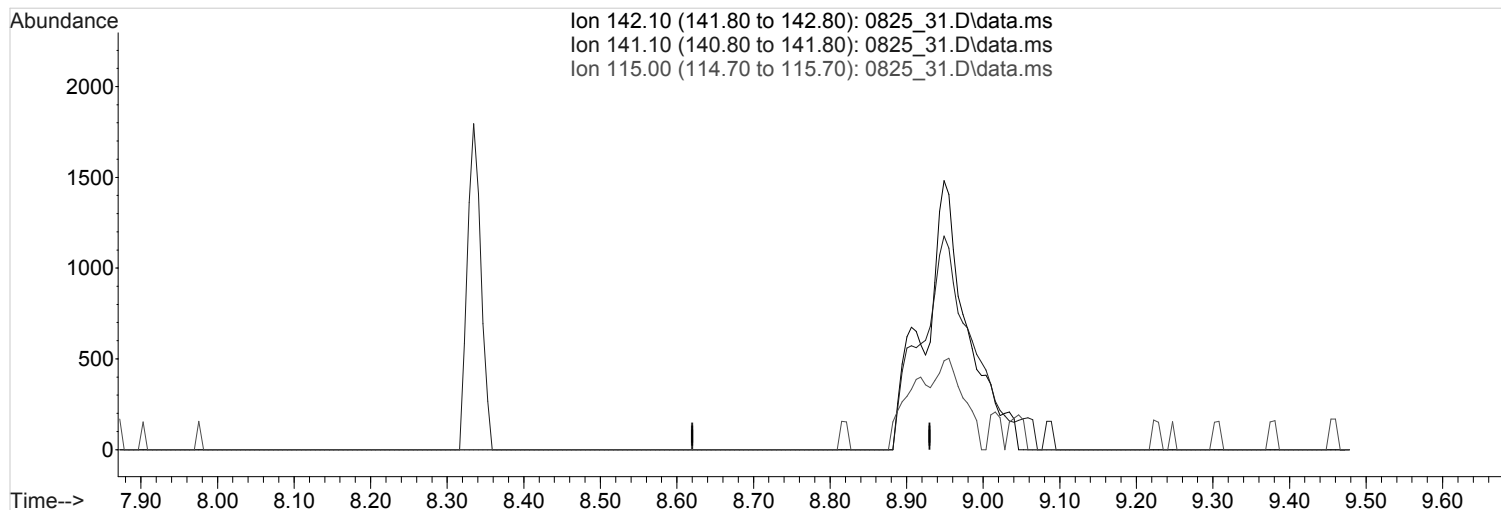
Quant Time: Aug 25 10:54:15 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_31.D
 Acq On : 25 Aug 2020 10:13 am
 Operator : 808
 Sample : MS 1x WG1531654 L1253450-07
 Misc : water
 ALS Vial : 31 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:36:10 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration



TIC: 0825_31.D\data.ms

(107) 1-METHYLNAPHTHALENE (T.M)

8.870min (-8.870) 0.0000000 ppb

Qvalue = 0

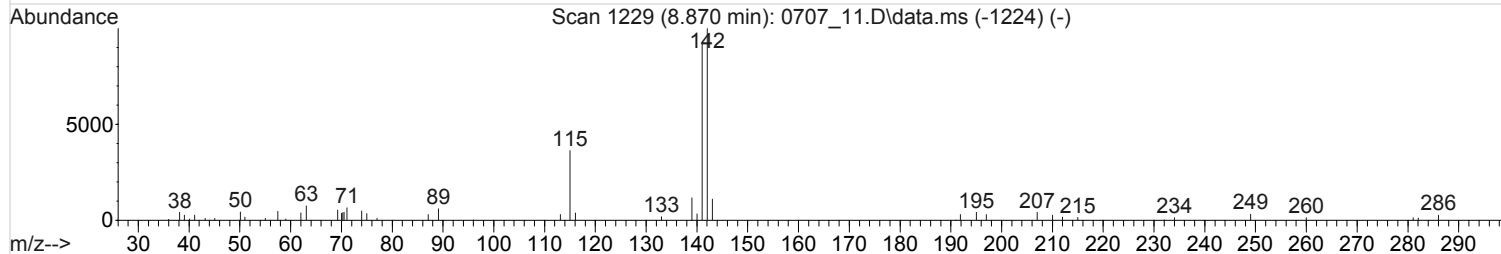
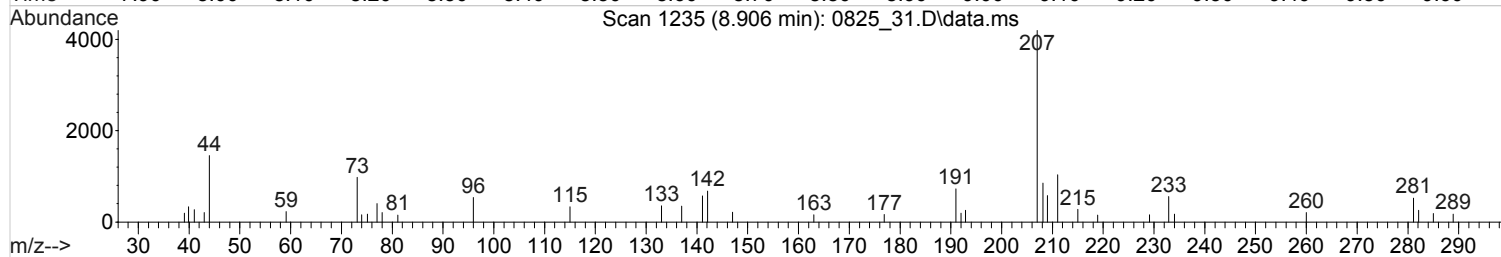
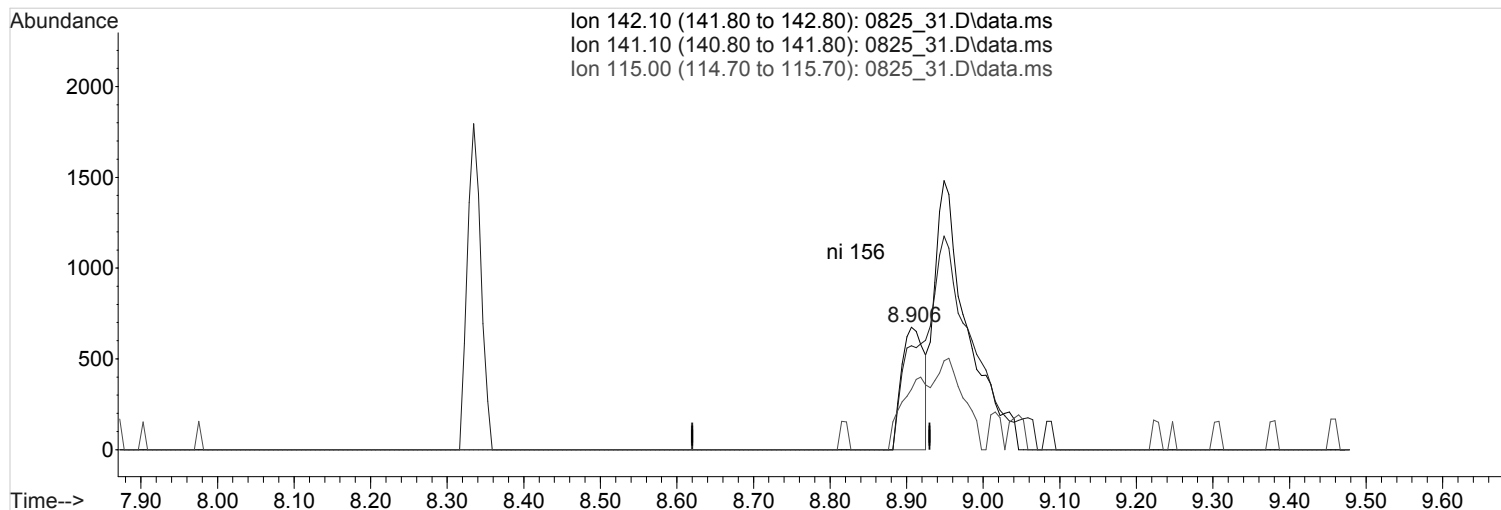
response 0

Ion	Exp%	Act%
142.10	100	0.00
141.10	87.30	0.00#
115.00	38.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_31.D
 Acq On : 25 Aug 2020 10:13 am
 Operator : 808
 Sample : MS 1x WG1531654 L1253450-07
 Misc : water
 ALS Vial : 31 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:36:10 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration



TIC: 0825_31.D\data.ms

(107) 1-METHYLNAPHTHALENE (T.M)

8.906min (+0.036) 0.4615431 ppb m

response 1377

Ion	Exp%	Act%
-----	------	------

142.10	100	100
--------	-----	-----

141.10	87.30	0.00#
--------	-------	-------

115.00	38.60	0.00#
--------	-------	-------

0.00	0.00	0.00
------	------	------

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEETSAMPLE NO.:
R3563552-5

Lab Sample ID: R3563552-5
Client Sample ID: MS
Lab File ID: 0825_31
Instrument ID: VOCMS26
Analytical Batch: WG1531771
Dilution Factor: 5
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/21/20 12:00
Received Date/Time: 08/22/20 09:00
Preparation Date/Time: 08/25/20 18:33
Analysis Date/Time: 08/25/20 18:33
Prep Method: 624.1/8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 1 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	3.18	ND		0.0565	0.250
Acrolein	107-02-8	3.02	0.351	J5	0.0127	0.250
Acrylonitrile	107-13-1	3.65	0.137		0.00336	0.0500
Benzene	71-43-2	4.41	0.0245		0.000471	0.00500
Bromobenzene	108-86-1	7.53	0.0246		0.000590	0.00500
Bromodichloromethane	75-27-4	5.07	0.0280		0.000680	0.00500
Bromoform	75-25-2	7.08	0.0249		0.000645	0.00500
Bromomethane	74-83-9	2.31	ND		0.00303	0.0250
n-Butylbenzene	104-51-8	8.48	0.0258		0.000785	0.00500
sec-Butylbenzene	135-98-8	8.04	0.0259		0.000625	0.00500
tert-Butylbenzene	98-06-6	7.91	0.0250		0.000635	0.00500
Carbon tetrachloride	56-23-5	4.16	0.0289		0.000640	0.00500
Chlorobenzene	108-90-7	6.60	0.0246		0.000580	0.00500
Chlorodibromomethane	124-48-1	6.09	0.0249		0.000700	0.00500
Chloroethane	75-00-3	2.39	ND		0.000960	0.0250
Chloroform	67-66-3	4.06	0.0283		0.000555	0.0250
Chloromethane	74-87-3	1.98	0.0208		0.00480	0.0125
2-Chlorotoluene	95-49-8	7.66	0.0251		0.000530	0.00500
4-Chlorotoluene	106-43-4	7.78	0.0253		0.000570	0.00500
1,2-Dibromo-3-Chloropropane	96-12-8	9.28	ND		0.00138	0.0250
1,2-Dibromoethane	106-93-4	6.26	0.0247		0.000630	0.00500
Dibromomethane	74-95-3	4.99	0.0243		0.000610	0.00500
1,2-Dichlorobenzene	95-50-1	8.64	0.0261		0.000535	0.00500
1,3-Dichlorobenzene	541-73-1	8.24	0.0251		0.000550	0.00500
1,4-Dichlorobenzene	106-46-7	8.31	0.0251		0.000600	0.00500
Dichlorodifluoromethane	75-71-8	1.79	0.0267		0.00187	0.0250
1,1-Dichloroethane	75-34-3	3.62	0.0258		0.000500	0.00500
1,2-Dichloroethane	107-06-2	4.52	0.0272		0.000410	0.00500
1,1-Dichloroethene	75-35-4	2.81	0.0220		0.000940	0.00500
cis-1,2-Dichloroethene	156-59-2	3.92	0.0265		0.000630	0.00500
trans-1,2-Dichloroethene	156-60-5	3.26	0.0235		0.000745	0.00500
1,2-Dichloropropane	78-87-5	5.05	0.0265		0.000745	0.00500
1,1-Dichloropropene	563-58-6	4.26	0.0232		0.000710	0.00500
1,3-Dichloropropane	142-28-9	6.15	0.0262		0.000550	0.00500
cis-1,3-Dichloropropene	10061-01-5	5.45	0.0261		0.000555	0.00500
trans-1,3-Dichloropropene	10061-02-6	5.85	0.0251		0.000590	0.00500
2,2-Dichloropropane	594-20-7	3.99	0.0270		0.000805	0.00500
Ethylbenzene	100-41-4	6.60	0.0240		0.000685	0.00500
Hexachloro-1,3-butadiene	87-68-3	9.79	0.0254		0.00169	0.00500
Di-isopropyl ether	108-20-3	3.51	0.0299		0.000525	0.00500
Isopropylbenzene	98-82-8	7.22	0.0249		0.000525	0.00500
p-Isopropyltoluene	99-87-6	8.15	0.0258		0.000600	0.00500
2-Butanone (MEK)	78-93-3	4.23	0.153		0.00595	0.0500

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: R3563552-5
Client Sample ID: MS
Lab File ID: 0825_31
Instrument ID: VOCMS26
Analytical Batch: WG1531771
Dilution Factor: 5
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/21/20 12:00
Received Date/Time: 08/22/20 09:00
Preparation Date/Time: 08/25/20 18:33
Analysis Date/Time: 08/25/20 18:33
Prep Method: 624.1/8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 1 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	3.17	ND		0.00215	0.0250
4-Methyl-2-pentanone (MIBK)	108-10-1	5.81	0.146		0.00239	0.0500
Methyl tert-butyl ether	1634-04-4	3.31	0.0257		0.000505	0.00500
Naphthalene	91-20-3	10.10	0.0352		0.00500	0.0250
n-Propylbenzene	103-65-1	7.52	0.0258		0.000497	0.00500
Styrene	100-42-5	7.04	0.0169		0.000590	0.00500
1,1,1,2-Tetrachloroethane	630-20-6	6.64	0.0249		0.000735	0.00500
1,1,2,2-Tetrachloroethane	79-34-5	7.57	0.0257		0.000665	0.00500
Tetrachloroethene	127-18-4	5.85	0.0245		0.00150	0.00500
Toluene	108-88-3	5.60	0.0238		0.00139	0.00500
1,1,2-Trichlorotrifluoroethane	76-13-1	2.85	0.0272		0.000900	0.00500
1,2,3-Trichlorobenzene	87-61-6	10.26	0.0239		0.00115	0.00500
1,2,4-Trichlorobenzene	120-82-1	9.83	0.0242		0.00241	0.00500
1,1,1-Trichloroethane	71-55-6	4.20	0.0288		0.000745	0.00500
1,1,2-Trichloroethane	79-00-5	5.96	0.0248		0.000790	0.00500
Trichloroethene	79-01-6	4.73	0.0255		0.000950	0.00500
Trichlorofluoromethane	75-69-4	2.48	0.0281		0.000800	0.0250
1,2,3-Trichloropropane	96-18-4	7.69	0.0290		0.00119	0.0125
1,2,4-Trimethylbenzene	95-63-6	7.96	0.0255		0.00161	0.00500
1,3,5-Trimethylbenzene	108-67-8	7.66	0.0255		0.000520	0.00500
Vinyl chloride	75-01-4	2.04	0.0193		0.00117	0.00500
Xylenes, Total	1330-20-7	7.01	0.0738		0.000870	0.0150
1,2,3-Trimethylbenzene	526-73-8	8.31	0.0243		0.000520	0.00500

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 31.D
 Acq On : 25 Aug 2020 6:33 pm
 Operator : 808
 Sample : MS 5x WG1531771 L1253654-01
 Misc : soil
 ALS Vial : 28 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 26 10:54:07 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 8260-FLUOROBENZENE	4.635	96	583841	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.592	82	267292	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	8.293	152	270300	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.635	96	583841	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.592	82	267292	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	8.293	152	270300	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.483	65	186967	16.5944426	ppb	0.00
Spiked Amount 16.000			Recovery	= 103.72%		
61) TOLUENE-D8	5.568	98	616586	15.8111574	ppb	0.00
Spiked Amount 16.000	Range 89 - 115		Recovery	= 98.82%		
80) 4-BROMOFLUOROBENZENE	7.446	95	244539	16.2467883	ppb	0.00
Spiked Amount 16.000	Range 70 - 129		Recovery	= 101.54%		
Target Compounds						Qvalue
4) PROPENE	1.739	41	12644	2.5251243	ppb	97
5) DICHLORODIFLUOROMETHANE	1.788	85	64638	5.3400477	ppb	99
6) CHLOROMETHANE	1.977	50	46077	4.1521668	ppb	99
7) VINYL CHLORIDE	2.038	62	41248	3.8650908	ppb	99
8) 1,3-BUTADIENE	2.008	39	1940	0.2197545	ppb	# 75
9) BROMOMETHANE	2.312	94	32983	4.2345388	ppb	99
10) CHLOROETHANE	2.392	64	26308	4.5098325	ppb	# 91
11) VINYL BROMIDE	2.477	106	33109	3.7885273	ppb	96
12) TRICHLOROFLUOROMETHANE	2.483	101	73739	5.6131724	ppb	# 98
13) DICHLOROFLUOROMETHANE	2.520	67	87396	5.1961552	ppb	97
14) ETHYL ETHER	2.660	59	40312	4.9101933	ppb	97
15) ACROLEIN	3.020	56	30342	70.2507945	ppb	99
16) ETHANOL	2.751	45	34934	260.0483212	ppb	# 98
17) 1,1-DICHLOROETHENE	2.806	96	33957	4.4091638	ppb	90
18) 1,1,2-TRICHLOROTRIFLUO...	2.855	101	42729	5.4297518	ppb	99
19) ACETONE	3.184	43	141013	37.8260784	ppb	99
20) IODOMETHANE	2.910	142	337715	20.0275748	ppb	96
21) CARBON DISULFIDE	2.843	76	72841	3.0167442	ppb	98
22) ALLYL CHLORIDE	3.099	76	113245	21.7755240	ppb	92
23) METHYLENE CHLORIDE	3.166	84	47869	4.8733973	ppb	97
24) METHYL ACETATE	3.245	43	230666	29.9829893	ppb	# 100
25) ACRYLONITRILE	3.648	53	138424	27.3815096	ppb	99
26) n-HEXANE	3.294	56	21640	4.4278309	ppb	# 93
27) TRANS-1,2-DICHLOROETHENE	3.263	96	41520	4.6929636	ppb	97
28) METHYL TERT-BUTYL ETHER	3.306	73	144198	5.1477021	ppb	93
29) TERT-BUTYL ALCOHOL	3.343	59	50151	29.5905489	ppb	# 100
30) 1,1-DICHLOROETHANE	3.617	63	87050	5.1591403	ppb	100
31) VINYL ACETATE	3.727	43	557176	26.9282248	ppb	98
32) DI-ISOPROPYL ETHER	3.507	45	178576	5.9871279	ppb	100
33) ETHYL TERT-BUTYL ETHER	3.715	59	163509	5.6368286	ppb	96
34) 2,2-DICHLOROPROPANE	3.989	77	58470	5.4054768	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.922	96	54052	5.3091545	ppb	98
36) 2-BUTANONE (MEK)	4.227	43	201435	30.6591044	ppb	99
37) BROMOCHLOROMETHANE	4.038	130	35784	5.1327684	ppb	94
38) TETRAHYDROFURAN	4.166	42	31492	7.0600265	ppb	96
39) CHLOROFORM	4.062	83	92536	5.6549855	ppb	100
40) CYCLOHEXANE	4.050	84	46575	4.5773303	ppb	97

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 31.D
 Acq On : 25 Aug 2020 6:33 pm
 Operator : 808
 Sample : MS 5x WG1531771 L1253654-01
 Misc : soil
 ALS Vial : 28 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 26 10:54:07 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-TRICHLOROETHANE	4.196	97	79455	5.7556861	ppb	98
42) CARBON TETRACHLORIDE	4.160	117	69910	5.7716901	ppb	98
43) 1,1-DICHLOROPROPENE	4.263	75	55303	4.6485263	ppb	99
44) 2,2,4-TRIMETHYLPENTANE	4.306	57	62887	5.1504828	ppb	98
45) n-Heptane	4.342	71	12820	3.7017429	ppb	# 90
46) BENZENE	4.410	78	184821	4.9086590	ppb	99
47) TERT-AMYL METHYL ETHER	4.434	73	154477	5.5153769	ppb	98
49) 1,2-DICHLOROETHANE	4.519	62	72009	5.4470237	ppb	97
50) T-AMYL ALCOHOL	4.525	59	44386	27.4793434	ppb	94
51) TRICHLOROETHENE	4.733	132	53755	5.1020517	ppb	97
52) METHYL CYCLOHEXANE	4.739	83	43394	4.5553473	ppb	96
53) TERT-AMYL ETHYL ETHER	4.824	59	120502	5.3856489	ppb	100
54) 1,2-DICHLOROPROPANE	5.050	62	35739	5.2927381	ppb	95
55) DIBROMOMETHANE	4.995	93	32644	4.8542541	ppb	99
56) BROMODICHLOROMETHANE	5.068	83	71895	5.6089234	ppb	94
58) CIS-1,3-DICHLOROPROPENE	5.446	75	80397	5.2266784	ppb	99
60) 4-METHYL-2-PENTANONE (...)	5.812	43	408890	29.2884897	ppb	97
62) TOLUENE	5.598	91	208386	4.7678301	ppb	99
63) TRANS-1,3-DICHLOROPROPENE	5.848	75	74336	5.0148525	ppb	# 97
64) 1,1,2-TRICHLOROETHANE	5.958	97	48055	4.9613771	ppb	97
65) TETRACHLOROETHENE	5.854	164	40330	4.9094359	ppb	98
66) 1,3-DICHLOROPROPANE	6.147	76	79845	5.2375637	ppb	99
67) 2-HEXANONE	6.354	58	155693	26.7824572	ppb	93
68) CHLORODIBROMOMETHANE	6.086	129	56839	4.9823330	ppb	99
69) 1,2-DIBROMOETHANE	6.263	107	52627	4.9462078	ppb	99
70) CHLOROBENZENE	6.604	112	135340	4.9175372	ppb	100
71) 1,1,1,2-TETRACHLOROETHANE	6.641	133	50874	4.9703276	ppb	# 100
72) ETHYLBENZENE	6.598	106	66616	4.7972610	ppb	99
73) M&P-XYLENE	6.696	106	164438	9.7769821	ppb	99
74) O-XYLENE	7.007	106	81596	4.9823348	ppb	100
77) STYRENE	7.043	104	92093	3.3739428	ppb	94
78) BROMOFORM	7.080	173	43414	4.9727455	ppb	98
79) ISOPROPYLBENZENE	7.220	105	192730	4.9796233	ppb	99
82) BROMOBENZENE	7.531	77	86702	4.9207242	ppb	99
83) 1,1,2,2-TETRACHLOROETHANE	7.574	83	72968	5.1457245	ppb	100
84) 1,2,3-TRICHLOROPROPANE	7.689	110	24169	5.7918484	ppb	96
85) TRANS-1,4-DICHLORO-2-B...	7.708	53	18420	5.0022149	ppb	89
86) N-PROPYLBENZENE	7.525	91	210672	5.1655114	ppb	99
87) 4-ETHYLTOLUENE	7.598	105	173015	5.0770772	ppb	99
88) 2-CHLOROTOLUENE	7.659	91	138507	5.0271383	ppb	97
89) 4-CHLOROTOLUENE	7.781	91	136272	5.0615750	ppb	99
90) 1,3,5-TRIMETHYLBENZENE	7.659	105	147210	5.1046471	ppb	98
91) TERT-BUTYLBENZENE	7.909	119	124124	5.0019306	ppb	98
92) 1,2,4-TRIMETHYLBENZENE	7.958	105	146146	5.0922082	ppb	97
93) SEC-BUTYLBENZENE	8.043	105	161951	5.1744605	ppb	100
94) 1,3-DICHLOROBENZENE	8.238	146	83530	5.0149630	ppb	99
95) P-ISOPROPYLTOLUENE	8.147	119	144150	5.1568546	ppb	98
96) DICYCLOPENTADIENE	8.153	66	123855	3.6725612	ppb	100
97) 1,4-DICHLOROBENZENE	8.305	146	86432	5.0098718	ppb	96
98) 1,2,3-TRIMETHYLBENZENE	8.305	105	118961	4.8563840	ppb	100
99) 1,2-DICHLOROBENZENE	8.640	146	83799	5.2200851	ppb	97
100) N-BUTYLBENZENE	8.476	91	108662	5.1682519	ppb	98
101) 1,2-DIBROMO-3-CHLOROPR...	9.281	157	18121	4.7919787	ppb	96
102) 1,3,5-TRICHLOROBENZENE	9.299	180	41069	5.1173283	ppb	99

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 31.D
 Acq On : 25 Aug 2020 6:33 pm
 Operator : 808
 Sample : MS 5x WG1531771 L1253654-01
 Misc : soil
 ALS Vial : 28 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 26 10:54:07 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
103) 1,2,4-TRICHLOROBENZENE	9.829	180	34608	4.8421208	ppb		99
104) HEXACHLORO-1,3-BUTADIENE	9.787	225	17075	5.0884044	ppb		97
105) NAPHTHALENE	10.104	128	202832	7.0414244	ppb		100
106) 1,2,3-TRICHLOROBENZENE	10.256	180	33038	4.7788684	ppb		96
107) 1-METHYLNAPHTHALENE	10.975	142	41630	4.7747483	ppb		96
108) 2-METHYLNAPHTHALENE	11.109	142	99270	12.0418136	ppb		96
111) 2-PROPANOL	3.087	45	2860	2.8710246	ppb	#	88
112) ACETONITRILE	3.507	41	28939	16.1394795	ppb	#	38
113) CHLOROPRENE	3.648	53	138424	9.2949548	ppb	#	25
114) PROPIONITRILE	4.440	54	728	0.3394544	ppb	#	1
116) METHACRYLONITRILE	4.483	67	97725	19.7958760	ppb	#	1
118) ISOBUTANOL	4.434	43	53709	61.8572937	ppb	#	74
119) N-BUTANOL	4.824	56	2087	4.0180769	ppb	#	1
121) 1,4-DIOXANE	5.105	88	3455	27.4466398	ppb	#	34
122) N-OCTANE	5.446	85	1632	0.5528452	ppb	#	65
125) 3,3-DIMETHYL-1-BUTANOL	6.354	57	55231	28.5194831	ppb	#	41
126) ETHYL METHACRYLATE	5.812	69	2679	0.1724472	ppb	#	1
128) CIS-1,4-DICHLORO-2-BUTENE	7.470	53	1057	0.2865759	ppb	#	7
129) CYCLOHEXANONE	7.738	55	380	0.9103173	ppb	#	72

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

Quant Time: Aug 26 10:54:07 2020
Quant Method : C:\msdchem\1\methods\V826H21T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 09:38:52 2020
Response via : Initial Calibration



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEETSAMPLE NO.:
R3563465-5

Lab Sample ID: R3563465-5
Client Sample ID: MSD
Lab File ID: 0825_32
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/18/20 14:06
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 10:33
Analysis Date/Time: 08/25/20 10:33
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result mg/l	Qualifier	MDL mg/l	RDL mg/l
Acetone	67-64-1	3	ND		0.0113	0.0500
Acrolein	107-02-8	2.84	ND		0.00254	0.0500
Acrylonitrile	107-13-1	3.44	0.0284		0.000671	0.0100
Benzene	71-43-2	4.17	0.00721		0.0000941	0.00100
Bromobenzene	108-86-1	7.23	0.00642		0.000118	0.00100
Bromodichloromethane	75-27-4	4.82	0.00662		0.000136	0.00100
Bromoform	75-25-2	6.80	0.00605		0.000129	0.00100
Bromomethane	74-83-9	2.11	ND		0.000605	0.00500
n-Butylbenzene	104-51-8	7.75	0.00407		0.000157	0.00100
sec-Butylbenzene	135-98-8	7.54	0.00491		0.000125	0.00100
tert-Butylbenzene	98-06-6	7.47	0.00564		0.000127	0.00100
Carbon tetrachloride	56-23-5	3.93	0.00682		0.000128	0.00100
Chlorobenzene	108-90-7	6.32	0.00674		0.000116	0.00100
Chlorodibromomethane	124-48-1	5.82	0.00657		0.000140	0.00100
Chloroethane	75-00-3	2.20	0.0103	J5	0.000192	0.00500
Chloroform	67-66-3	3.84	0.00676		0.000111	0.00500
Chloromethane	74-87-3	1.83	0.00533		0.000960	0.00250
2-Chlorotoluene	95-49-8	7.32	0.00650		0.000106	0.00100
4-Chlorotoluene	106-43-4	7.40	0.00568		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	96-12-8	8.12	ND		0.000276	0.00500
1,2-Dibromoethane	106-93-4	6	0.00657		0.000126	0.00100
Dibromomethane	74-95-3	4.75	0.00745		0.000122	0.00100
1,2-Dichlorobenzene	95-50-1	7.83	0.00567		0.000107	0.00100
1,3-Dichlorobenzene	541-73-1	7.64	0.00550		0.000110	0.00100
1,4-Dichlorobenzene	106-46-7	7.67	0.00612		0.000120	0.00100
Dichlorodifluoromethane	75-71-8	1.64	0.00715		0.000374	0.00500
1,1-Dichloroethane	75-34-3	3.40	0.00749		0.000100	0.00100
1,2-Dichloroethane	107-06-2	4.28	0.00663		0.0000819	0.00100
1,1-Dichloroethene	75-35-4	2.63	0.00750		0.000188	0.00100
cis-1,2-Dichloroethene	156-59-2	3.71	0.00718		0.000126	0.00100
trans-1,2-Dichloroethene	156-60-5	3.07	0.00762		0.000149	0.00100
1,2-Dichloropropane	78-87-5	4.79	0.00737		0.000149	0.00100
1,1-Dichloropropene	563-58-6	4.03	0.00720		0.000142	0.00100
1,3-Dichloropropane	142-28-9	5.88	0.00696		0.000110	0.00100
cis-1,3-Dichloropropene	10061-01-5	5.20	0.00549		0.000111	0.00100
trans-1,3-Dichloropropene	10061-02-6	5.60	0.00482		0.000118	0.00100
2,2-Dichloropropane	594-20-7	3.76	0.00660		0.000161	0.00100
Di-isopropyl ether	108-20-3	3.30	0.00671		0.000105	0.00100
Ethylbenzene	100-41-4	6.31	0.00604		0.000137	0.00100
Hexachloro-1,3-butadiene	87-68-3	8.33	0.00448		0.000337	0.00100
Isopropylbenzene	98-82-8	6.93	0.00516		0.000105	0.00100
p-Isopropyltoluene	99-87-6	7.59	0.00502		0.000120	0.00100
2-Butanone (MEK)	78-93-3	4	0.0314		0.00119	0.0100

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: R3563465-5
Client Sample ID: MSD
Lab File ID: 0825_32
Instrument ID: VOCMS7
Analytical Batch: WG1531654
Dilution Factor: 1
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/18/20 14:06
Received Date/Time: 08/21/20 09:31
Preparation Date/Time: 08/25/20 10:33
Analysis Date/Time: 08/25/20 10:33
Prep Method: 8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	2.97	0.00732	J5	0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	5.54	0.0289		0.000478	0.0100
Methyl tert-butyl ether	1634-04-4	3.11	0.00672		0.000101	0.00100
Naphthalene	91-20-3	8.48	ND		0.00100	0.00500
n-Propylbenzene	103-65-1	7.22	0.00562		0.0000993	0.00100
Styrene	100-42-5	6.76	0.00517		0.000118	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	6.35	0.00723		0.000147	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	7.26	0.00751		0.000133	0.00100
Tetrachloroethene	127-18-4	5.58	0.00617		0.000300	0.00100
Toluene	108-88-3	5.34	0.00615		0.000278	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	2.63	0.00789		0.000180	0.00100
1,2,3-Trichlorobenzene	87-61-6	8.55	0.00365		0.000230	0.00100
1,2,4-Trichlorobenzene	120-82-1	8.37	0.00454		0.000481	0.00100
1,1,1-Trichloroethane	71-55-6	3.97	0.00707		0.000149	0.00100
1,1,2-Trichloroethane	79-00-5	5.69	0.00700		0.000158	0.00100
Trichloroethene	79-01-6	4.50	0.00671		0.000190	0.00100
Trichlorofluoromethane	75-69-4	2.29	0.00734		0.000160	0.00500
1,2,3-Trichloropropane	96-18-4	7.34	0.00749		0.000237	0.00250
1,2,3-Trimethylbenzene	526-73-8	7.67	0.00516		0.000104	0.00100
1,2,4-Trimethylbenzene	95-63-6	7.50	0.00548		0.000322	0.00100
1,3,5-Trimethylbenzene	108-67-8	7.32	0.00577		0.000104	0.00100
Vinyl chloride	75-01-4	1.87	0.00799		0.000234	0.00100
Xylenes, Total	1330-20-7	6.72	0.0164		0.000174	0.00300

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_32.D
 Acq On : 25 Aug 2020 10:33 am
 Operator : 808
 Sample : MSD 1x WG1531654 L1253450-07
 Misc : water
 ALS Vial : 32 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:55:23 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-FLUOROBENZENE	4.392	96	208562	16.0000000	ppb	0.00
59) 8260-CHLOROBENZENE-D5	6.309	82	90283	16.0000000	ppb	0.00
81) 8260-1,4-DICHLOROBENZE...	7.665	152	72395	16.0000000	ppb	0.00
109) AP9-FLUOROBENZENE	4.392	96	207259	16.0000000	ppb	0.00
123) AP9-CHLOROBENZENE-D5	6.309	82	90283	16.0000000	ppb	0.00
127) AP9-1,4-DICHLOROBENZEN...	7.665	152	72395	16.0000000	ppb	0.00
System Monitoring Compounds						
48) 1,2-DICHLOROETHANE-D4	4.246	65	61145	15.0651975	ppb	0.00
Spiked Amount	16.000		Recovery	=	94.16%	
61) TOLUENE-D8	5.305	98	215860	14.6769952	ppb	0.00
Spiked Amount	16.000	Range	90 - 115	Recovery	=	91.73%
80) 4-BROMOFLUOROBENZENE	7.154	95	73956	14.3543323	ppb	0.00
Spiked Amount	16.000	Range	80 - 120	Recovery	=	89.71%
Target Compounds						
					Qvalue	
3) LRH (C5-C8)	4.000	TIC	2245496m	0.0840187	ppm	
4) PROPENE	1.606	41	24608	8.0041097	ppb	93
5) DICHLORODIFLUOROMETHANE	1.643	85	54506	7.1480601	ppb	100
6) CHLOROMETHANE	1.825	50	43791	5.3288757	ppb	97
7) VINYL CHLORIDE	1.868	62	51366	7.9934048	ppb	# 75
8) 1,3-BUTADIENE	1.874	39	34891	7.0950087	ppb	89
9) BROMOMETHANE	2.105	94	11142	2.0064899	ppb	97
10) CHLOROETHANE	2.196	64	37239	10.3255739	ppb	# 81
11) VINYL BROMIDE	2.275	106	37913	9.1574415	ppb	98
12) TRICHLOROFLUOROMETHANE	2.288	101	60820	7.3351897	ppb	99
13) DICHLOROFLUOROMETHANE	2.324	67	74115	7.3584887	ppb	92
14) ETHYL ETHER	2.488	59	22664	7.5174537	ppb	95
15) ACROLEIN	2.841	56	20783	37.4502291	ppb	89
16) ETHANOL	2.592	45	21346	228.0242267	ppb	# 83
17) 1,1-DICHLOROETHENE	2.628	96	30490	7.5039046	ppb	99
18) 1,1,2-TRICHLOROTRIFLUO...	2.634	101	32858	7.8875262	ppb	92
19) ACETONE	2.999	43	51941	24.8044808	ppb	# 87
20) IODOMETHANE	2.726	142	64612	8.6051260	ppb	94
21) CARBON DISULFIDE	2.665	76	88882	7.2526929	ppb	# 95
22) ALLYL CHLORIDE	2.908	76	92381	39.6223574	ppb	81
23) METHYLENE CHLORIDE	2.969	84	33314	7.3246176	ppb	97
24) METHYL ACETATE	3.054	43	112744	30.4902031	ppb	# 95
25) ACRYLONITRILE	3.443	53	66537	28.3708672	ppb	98
26) n-HEXANE	3.091	56	18627	6.3023492	ppb	# 98
27) TRANS-1,2-DICHLOROETHENE	3.066	96	33923	7.6168194	ppb	96
28) METHYL TERT-BUTYL ETHER	3.109	73	84818	6.7225176	ppb	96
29) TERT-BUTYL ALCOHOL	3.145	59	25290	24.7804325	ppb	# 100
30) 1,1-DICHLOROETHANE	3.401	63	62477	7.4882657	ppb	100
31) VINYL ACETATE	3.516	43	251225	31.6391522	ppb	99
32) DI-ISOPROPYL ETHER	3.297	45	92807	6.7073744	ppb	96
33) ETHYL TERT-BUTYL ETHER	3.498	59	84138	6.5963293	ppb	99
34) 2,2-DICHLOROPROPANE	3.760	77	48083	6.6029686	ppb	99
35) CIS-1,2-DICHLOROETHENE	3.705	96	35824	7.1775016	ppb	93
36) 2-BUTANONE (MEK)	4.003	43	99599	31.3647958	ppb	92
37) BROMOCHLOROMETHANE	3.815	130	22959	8.5637829	ppb	90
38) TETRAHYDROFURAN	3.948	42	11223	4.8229686	ppb	# 84
39) CHLOROFORM	3.839	83	62019	6.7585821	ppb	99
40) CYCLOHEXANE	3.821	84	37763	6.0920178	ppb	96

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_32.D
 Acq On : 25 Aug 2020 10:33 am
 Operator : 808
 Sample : MSD 1x WG1531654 L1253450-07
 Misc : water
 ALS Vial : 32 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:55:23 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-TRICHLOROETHANE	3.967	97	53862	7.0665304	ppb	99
42) CARBON TETRACHLORIDE	3.930	117	48225	6.8220106	ppb	96
43) 1,1-DICHLOROPROPENE	4.034	75	43343	7.1989190	ppb	99
44) 2,2,4-TRIMETHYLPENTANE	4.064	57	36539	4.8444094	ppb	99
45) n-Heptane	4.113	71	9481	4.5622028	ppb	# 82
46) BENZENE	4.173	78	138213	7.2119738	ppb	98
47) TERT-AMYL METHYL ETHER	4.198	73	80171	6.1408782	ppb	96
49) 1,2-DICHLOROETHANE	4.283	62	37857	6.6252945	ppb	95
50) T-AMYL ALCOHOL	4.289	59	22245	24.8072609	ppb	92
51) TRICHLOROETHENE	4.496	132	34799	6.7131327	ppb	96
52) METHYL CYCLOHEXANE	4.490	83	32034	5.0246769	ppb	94
53) TERT-AMYL ETHYL ETHER	4.575	59	58142	6.2926186	ppb	95
54) 1,2-DICHLOROPROPANE	4.794	62	21951	7.3734306	ppb	92
55) DIBROMOMETHANE	4.751	93	19982	7.4489008	ppb	88
56) BROMODICHLOROMETHANE	4.818	83	41117	6.6204399	ppb	96
58) CIS-1,3-DICHLOROPROPENE	5.196	75	36504	5.4942790	ppb	95
60) 4-METHYL-2-PENTANONE (...)	5.542	43	214987	28.8713557	ppb	100
62) TOLUENE	5.335	91	136736	6.1495583	ppb	99
63) TRANS-1,3-DICHLOROPROPENE	5.597	75	28997	4.8198639	ppb	99
64) 1,1,2-TRICHLOROETHANE	5.694	97	30438	7.0042710	ppb	99
65) TETRACHLOROETHENE	5.585	164	29340	6.1681589	ppb	97
66) 1,3-DICHLOROPROPANE	5.877	76	45746	6.9547379	ppb	96
67) 2-HEXANONE	6.084	58	79857	27.6437888	ppb	95
68) CHLORODIBROMOMETHANE	5.822	129	34441	6.5725299	ppb	99
69) 1,2-DIBROMOETHANE	5.999	107	30359	6.5723985	ppb	98
70) CHLOROBENZENE	6.321	112	92231	6.7417437	ppb	95
71) 1,1,1,2-TETRACHLOROETHANE	6.351	133	33402	7.2294811	ppb	# 100
72) ETHYLBENZENE	6.315	106	44917	6.0396814	ppb	90
73) M&P-XYLENE	6.412	106	103807	10.9274025	ppb	92
74) O-XYLENE	6.716	106	49876	5.4808683	ppb	99
77) STYRENE	6.759	104	69588	5.1714562	ppb	91
78) BROMOFORM	6.795	173	26635	6.0543927	ppb	99
79) ISOPROPYLBENZENE	6.929	105	117842	5.1577653	ppb	98
82) BROMOBENZENE	7.227	77	51609	6.4232356	ppb	96
83) 1,1,2,2-TETRACHLOROETHANE	7.258	83	48606	7.5125052	ppb	98
84) 1,2,3-TRICHLOROPROPANE	7.343	110	13956	7.4898350	ppb	91
85) TRANS-1,4-DICHLORO-2-B...	7.367	53	7605	4.4892205	ppb	# 80
86) N-PROPYLBENZENE	7.215	91	128152	5.6222607	ppb	99
87) 4-ETHYLTOLUENE	7.276	105	108604	6.3745859	ppb	93
88) 2-CHLOROTOLUENE	7.319	91	88024	6.4983825	ppb	97
89) 4-CHLOROTOLUENE	7.404	91	68697	5.6790328	ppb	96
90) 1,3,5-TRIMETHYLBENZENE	7.319	105	92332	5.7694948	ppb	94
91) TERT-BUTYLBENZENE	7.471	119	77224	5.6365562	ppb	93
92) 1,2,4-TRIMETHYLBENZENE	7.501	105	71864	5.4751996	ppb	98
93) SEC-BUTYLBENZENE	7.538	105	80151	4.9058032	ppb	94
94) 1,3-DICHLOROBENZENE	7.641	146	39205	5.4992876	ppb	96
95) P-ISOPROPYLTOLUENE	7.592	119	66716	5.0158207	ppb	99
96) DICYCLOPENTADIENE	7.592	66	78870	5.0446460	ppb	# 90
97) 1,4-DICHLOROBENZENE	7.672	146	49852	6.1238458	ppb	# 70
98) 1,2,3-TRIMETHYLBENZENE	7.665	105	53564	5.1639361	ppb	93
99) 1,2-DICHLOROBENZENE	7.830	146	41456	5.6645440	ppb	97
100) N-BUTYLBENZENE	7.751	91	45726	4.0693118	ppb	97
101) 1,2-DIBROMO-3-CHLOROPR...	8.122	157	9287	4.9428774	ppb	93
102) 1,3,5-TRICHLOROBENZENE	8.134	180	23330	4.9236247	ppb	98
103) 1,2,4-TRICHLOROBENZENE	8.365	180	17862	4.5410833	ppb	95

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_32.D
Acq On : 25 Aug 2020 10:33 am
Operator : 808
Sample : MSD 1x WG1531654 L1253450-07
Misc : water
ALS Vial : 32 Sample Multiplier: 1
InstName : VOCMS7

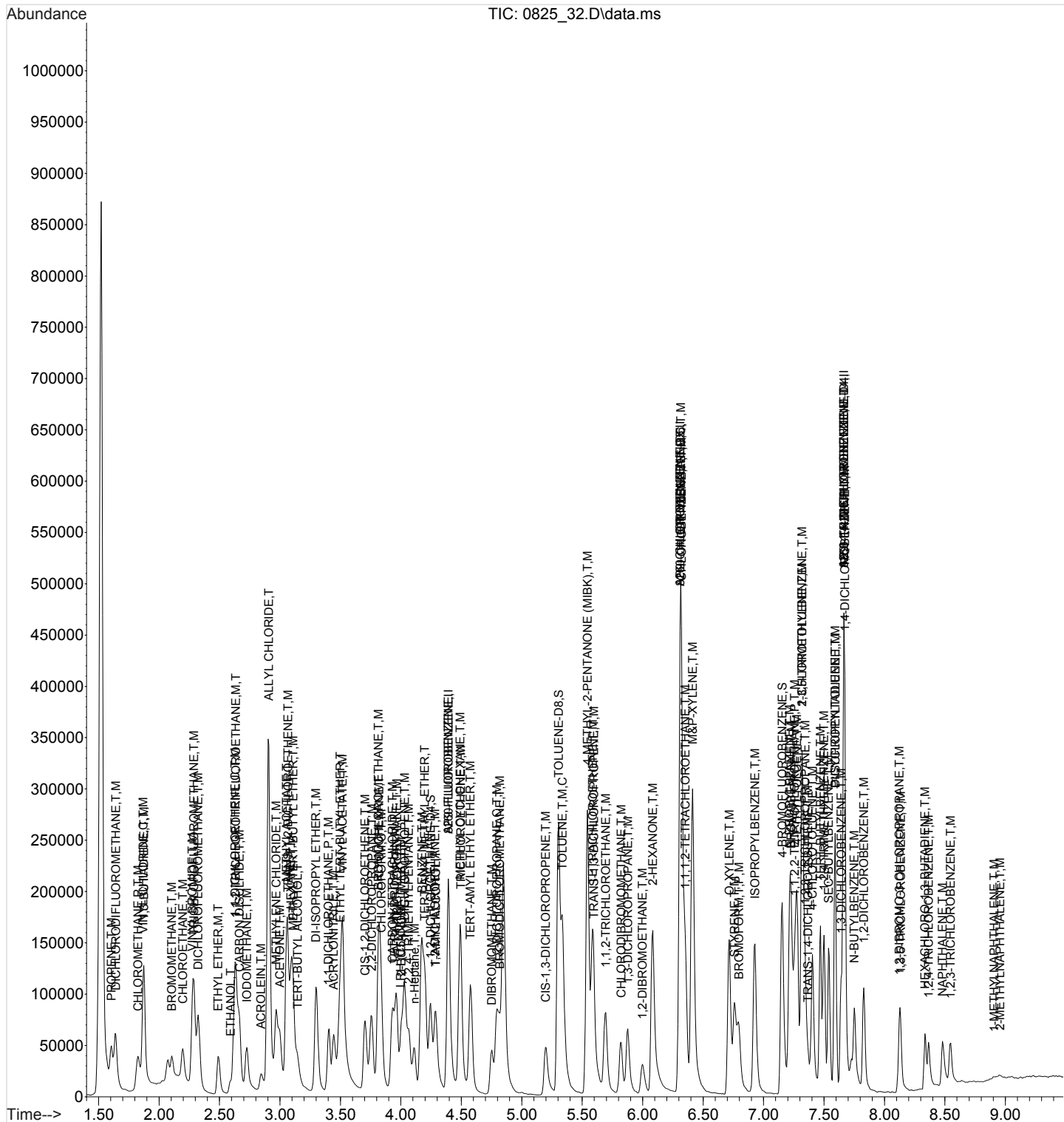
Quant Time: Aug 25 10:55:23 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
104) HEXACHLORO-1,3-BUTADIENE	8.335	225	8701	4.4750709	ppb		95
105) NAPHTHALENE	8.481	128	45632	3.7058742	ppb		99
106) 1,2,3-TRICHLOROBENZENE	8.548	180	13151	3.6537602	ppb		94
107) 1-METHYLNAPHTHALENE	8.906	142	2308m	0.8213505	ppb		
108) 2-METHYLNAPHTHALENE	8.955	142	3733m	1.3717033	ppb		

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

Data Path : C:\msdchem\1\data\082520\
Data File : 0825_32.D
Acq On : 25 Aug 2020 10:33 am
Operator : 808
Sample : MSD 1x WG1531654 L1253450-07
Misc : water
ALS Vial : 32 Sample Multiplier: 1
InstName : VOCMS7

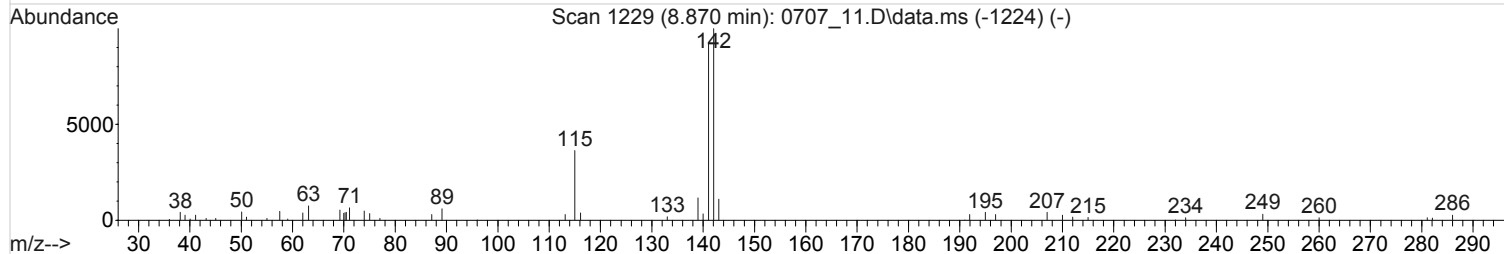
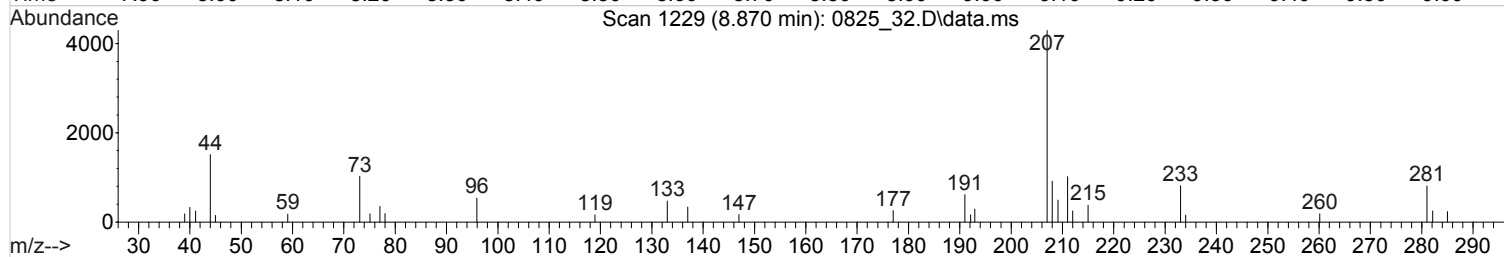
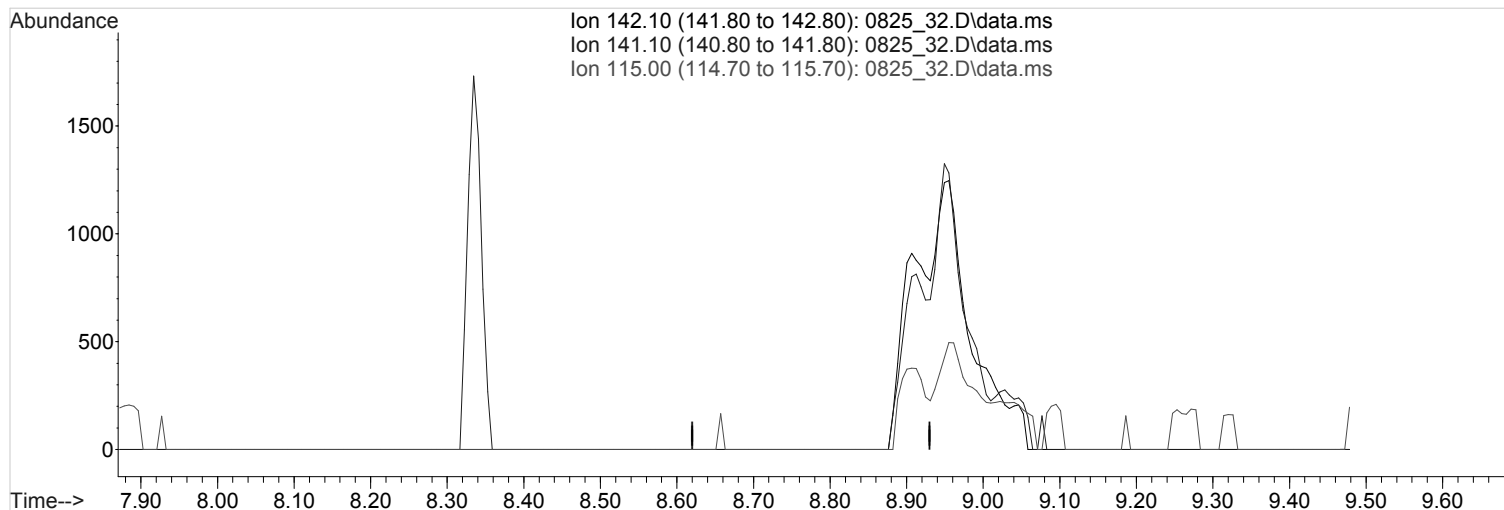
Quant Time: Aug 25 10:55:23 2020
Quant Method : C:\msdchem\1\methods\V807G07T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Wed Jul 08 09:30:56 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_32.D
 Acq On : 25 Aug 2020 10:33 am
 Operator : 808
 Sample : MSD 1x WG1531654 L1253450-07
 Misc : water
 ALS Vial : 32 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:54:32 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration



TIC: 0825_32.D\data.ms

(107) 1-METHYLNAPHTHALENE (T.M)

8.870min (-8.870) 0.0000000 ppb

Qvalue = 0

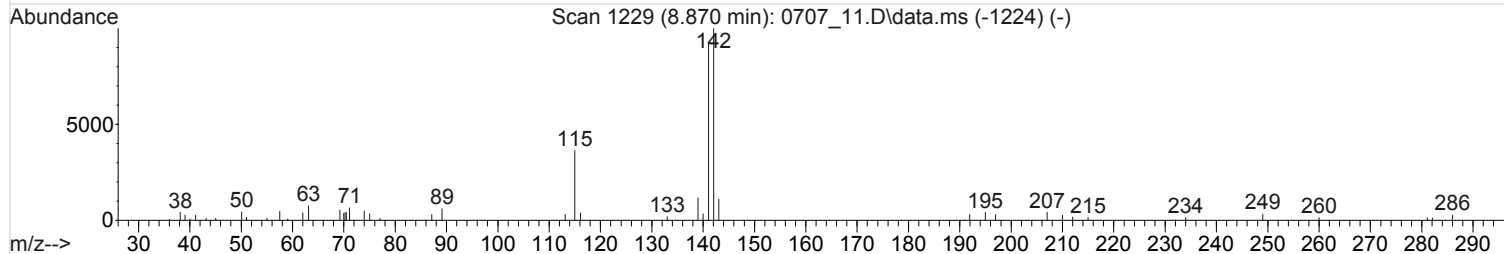
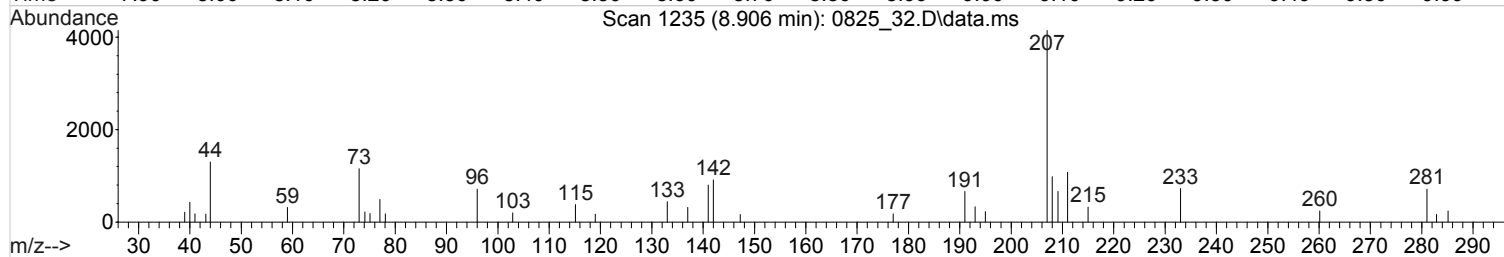
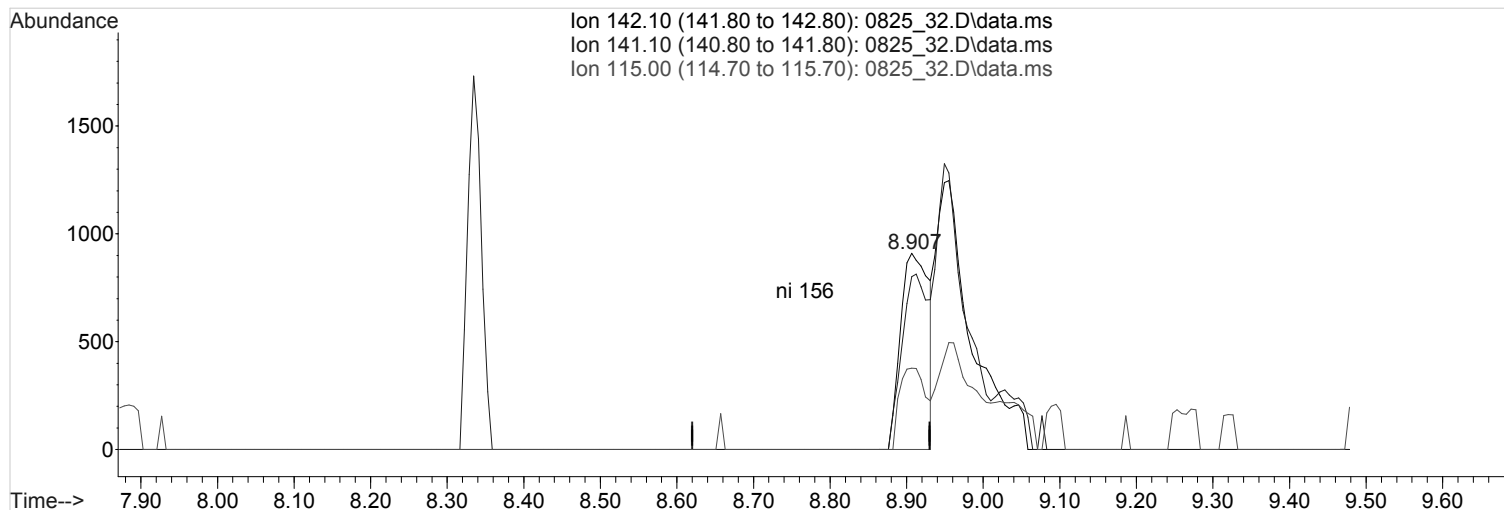
response 0

Ion	Exp%	Act%
142.10	100	0.00
141.10	87.30	0.00#
115.00	38.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_32.D
 Acq On : 25 Aug 2020 10:33 am
 Operator : 808
 Sample : MSD 1x WG1531654 L1253450-07
 Misc : water
 ALS Vial : 32 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:54:32 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration



TIC: 0825_32.D\data.ms

(107) 1-METHYLNAPHTHALENE (T.M)

8.906min (+0.037) 0.8213505 ppb m

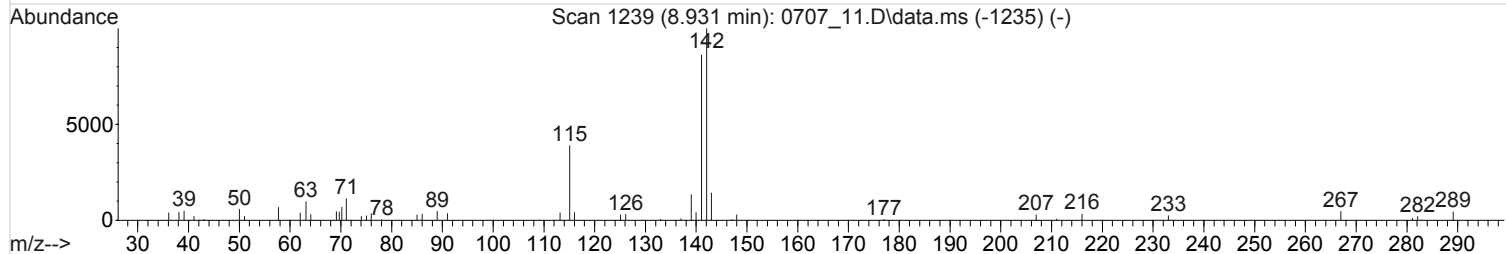
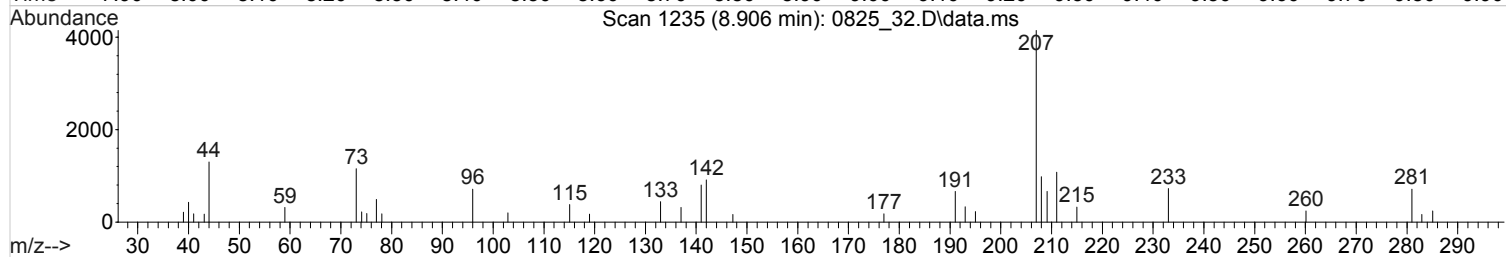
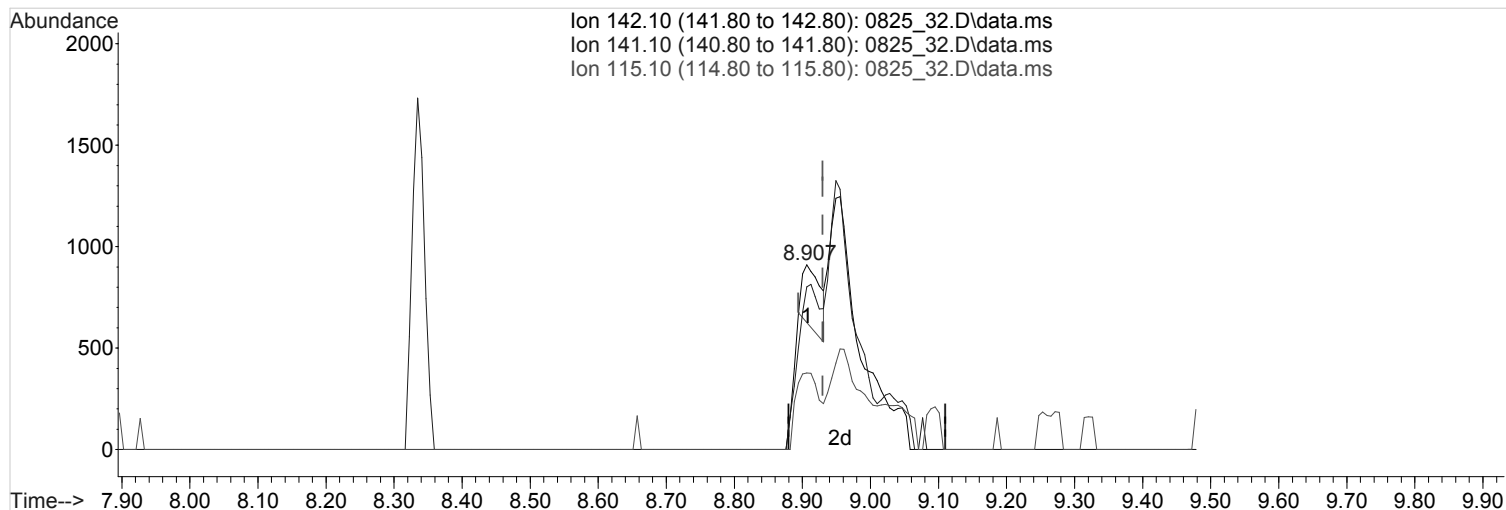
response 2308

Ion	Exp%	Act%
142.10	100	100
141.10	87.30	0.00#
115.00	38.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_32.D
 Acq On : 25 Aug 2020 10:33 am
 Operator : 808
 Sample : MSD 1x WG1531654 L1253450-07
 Misc : water
 ALS Vial : 32 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:54:32 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration



TIC: 0825_32.D\data.ms

(108) 2-METHYLNAPHTHALENE (T.M)

8.906min (-0.024) 0.1984248 ppb

Qvalue = 91

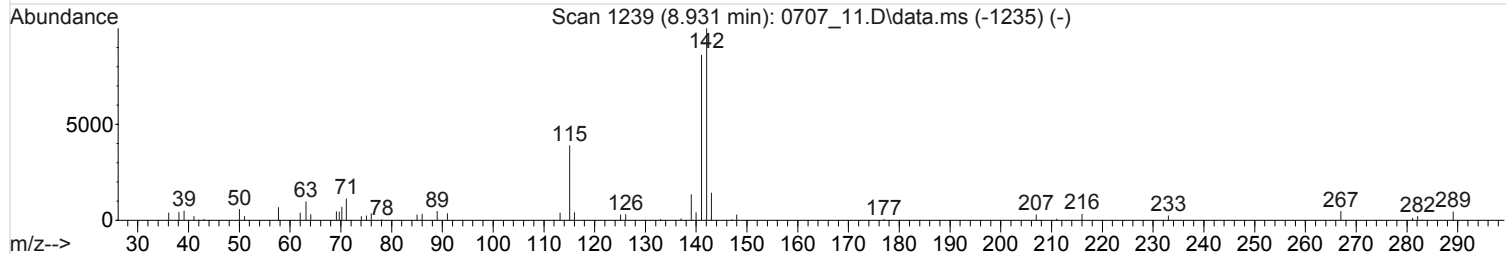
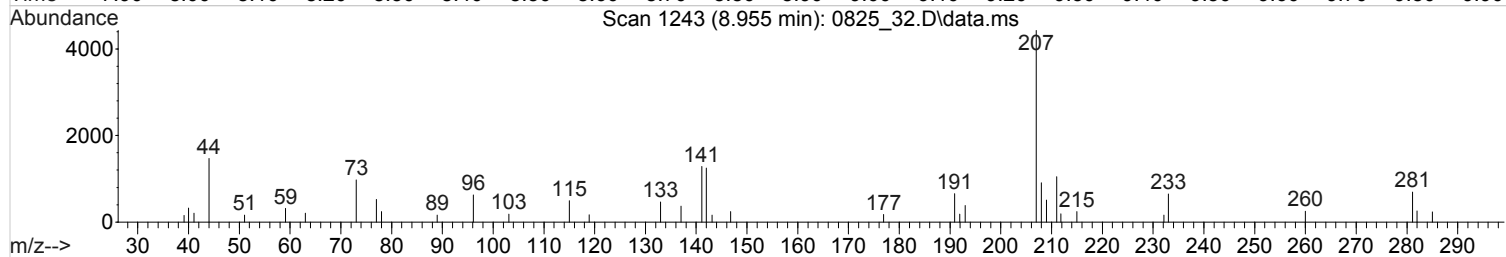
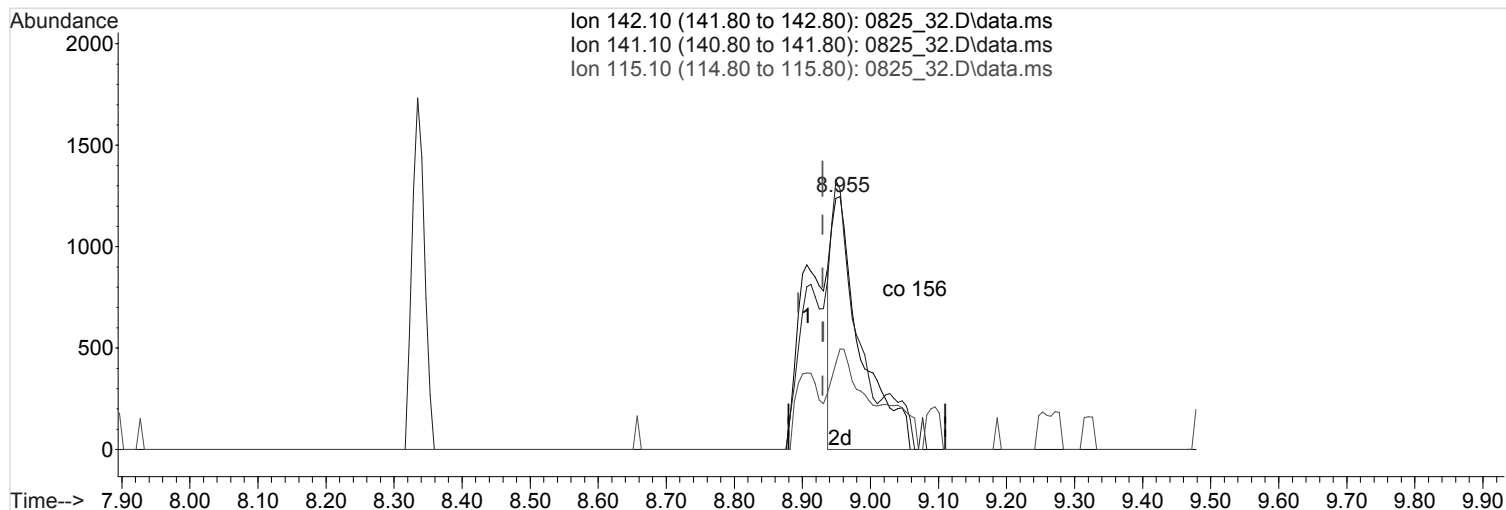
response 540

Ion	Exp%	Act%
142.10	100	100
141.10	102.90	94.81
115.10	32.40	38.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825_32.D
 Acq On : 25 Aug 2020 10:33 am
 Operator : 808
 Sample : MSD 1x WG1531654 L1253450-07
 Misc : water
 ALS Vial : 32 Sample Multiplier: 1
 InstName : VOCMS7

Quant Time: Aug 25 10:54:32 2020
 Quant Method : C:\msdchem\1\methods\V807G07T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Wed Jul 08 09:30:56 2020
 Response via : Initial Calibration



TIC: 0825_32.D\data.ms

(108) 2-METHYLNAPHTHALENE (T.M)

8.955min (+0.025) 1.3717033 ppb m

response 3733

Ion	Exp%	Act%
142.10	100	100
141.10	102.90	13.72#
115.10	32.40	5.55#
0.00	0.00	0.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEETSAMPLE NO.:
R3563552-6

Lab Sample ID: R3563552-6
Client Sample ID: MSD
Lab File ID: 0825_32
Instrument ID: VOCMS26
Analytical Batch: WG1531771
Dilution Factor: 5
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/21/20 12:00
Received Date/Time: 08/22/20 09:00
Preparation Date/Time: 08/25/20 18:54
Analysis Date/Time: 08/25/20 18:54
Prep Method: 624.1/8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 1 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Acetone	67-64-1	3.18	ND		0.0565	0.250
Acrolein	107-02-8	3.01	0.392	J5	0.0127	0.250
Acrylonitrile	107-13-1	3.65	0.135		0.00336	0.0500
Benzene	71-43-2	4.41	0.0269		0.000471	0.00500
Bromobenzene	108-86-1	7.53	0.0260		0.000590	0.00500
Bromodichloromethane	75-27-4	5.07	0.0296		0.000680	0.00500
Bromoform	75-25-2	7.08	0.0256		0.000645	0.00500
Bromomethane	74-83-9	2.31	ND		0.00303	0.0250
n-Butylbenzene	104-51-8	8.48	0.0278		0.000785	0.00500
sec-Butylbenzene	135-98-8	8.04	0.0276		0.000625	0.00500
tert-Butylbenzene	98-06-6	7.91	0.0271		0.000635	0.00500
Carbon tetrachloride	56-23-5	4.16	0.0312		0.000640	0.00500
Chlorobenzene	108-90-7	6.60	0.0267		0.000580	0.00500
Chlorodibromomethane	124-48-1	6.09	0.0263		0.000700	0.00500
Chloroethane	75-00-3	2.39	ND		0.000960	0.0250
Chloroform	67-66-3	4.06	0.0314		0.000555	0.0250
Chloromethane	74-87-3	1.97	0.0223		0.00480	0.0125
2-Chlorotoluene	95-49-8	7.66	0.0276		0.000530	0.00500
4-Chlorotoluene	106-43-4	7.78	0.0276		0.000570	0.00500
1,2-Dibromo-3-Chloropropane	96-12-8	9.28	ND		0.00138	0.0250
1,2-Dibromoethane	106-93-4	6.26	0.0247		0.000630	0.00500
Dibromomethane	74-95-3	4.99	0.0265		0.000610	0.00500
1,2-Dichlorobenzene	95-50-1	8.64	0.0273		0.000535	0.00500
1,3-Dichlorobenzene	541-73-1	8.24	0.0274		0.000550	0.00500
1,4-Dichlorobenzene	106-46-7	8.31	0.0269		0.000600	0.00500
Dichlorodifluoromethane	75-71-8	1.78	0.0325		0.00187	0.0250
1,1-Dichloroethane	75-34-3	3.62	0.0284		0.000500	0.00500
1,2-Dichloroethane	107-06-2	4.52	0.0288		0.000410	0.00500
1,1-Dichloroethene	75-35-4	2.81	0.0252		0.000940	0.00500
cis-1,2-Dichloroethene	156-59-2	3.92	0.0292		0.000630	0.00500
trans-1,2-Dichloroethene	156-60-5	3.26	0.0260		0.000745	0.00500
1,2-Dichloropropane	78-87-5	5.04	0.0289		0.000745	0.00500
1,1-Dichloropropene	563-58-6	4.26	0.0262		0.000710	0.00500
1,3-Dichloropropane	142-28-9	6.15	0.0268		0.000550	0.00500
cis-1,3-Dichloropropene	10061-01-5	5.45	0.0274		0.000555	0.00500
trans-1,3-Dichloropropene	10061-02-6	5.85	0.0262		0.000590	0.00500
2,2-Dichloropropane	594-20-7	3.98	0.0287		0.000805	0.00500
Ethylbenzene	100-41-4	6.60	0.0263		0.000685	0.00500
Hexachloro-1,3-butadiene	87-68-3	9.79	0.0272		0.00169	0.00500
Di-isopropyl ether	108-20-3	3.51	0.0309		0.000525	0.00500
Isopropylbenzene	98-82-8	7.22	0.0265		0.000525	0.00500
p-Isopropyltoluene	99-87-6	8.15	0.0275		0.000600	0.00500
2-Butanone (MEK)	78-93-3	4.23	0.152		0.00595	0.0500

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID: R3563552-6
Client Sample ID: MSD
Lab File ID: 0825_32
Instrument ID: VOCMS26
Analytical Batch: WG1531771
Dilution Factor: 5
Analytical Method: 8260B
Matrix: GW
Total Solids (%): _____

SDG: L1253450
Collected Date/Time: 08/21/20 12:00
Received Date/Time: 08/22/20 09:00
Preparation Date/Time: 08/25/20 18:54
Analysis Date/Time: 08/25/20 18:54
Prep Method: 624.1/8260B
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 1 mL

Analyte	CAS	RT	Result <i>mg/l</i>	Qualifier	MDL <i>mg/l</i>	RDL <i>mg/l</i>
Methylene Chloride	75-09-2	3.16	0.0260		0.00215	0.0250
4-Methyl-2-pentanone (MIBK)	108-10-1	5.81	0.144		0.00239	0.0500
Methyl tert-butyl ether	1634-04-4	3.31	0.0277		0.000505	0.00500
Naphthalene	91-20-3	10.10	ND	J3	0.00500	0.0250
n-Propylbenzene	103-65-1	7.52	0.0277		0.000497	0.00500
Styrene	100-42-5	7.04	0.0180		0.000590	0.00500
1,1,1,2-Tetrachloroethane	630-20-6	6.63	0.0267		0.000735	0.00500
1,1,2,2-Tetrachloroethane	79-34-5	7.57	0.0258		0.000665	0.00500
Tetrachloroethene	127-18-4	5.85	0.0259		0.00150	0.00500
Toluene	108-88-3	5.60	0.0254		0.00139	0.00500
1,1,2-Trichlorotrifluoroethane	76-13-1	2.85	0.0304		0.000900	0.00500
1,2,3-Trichlorobenzene	87-61-6	10.26	0.0243		0.00115	0.00500
1,2,4-Trichlorobenzene	120-82-1	9.83	0.0256		0.00241	0.00500
1,1,1-Trichloroethane	71-55-6	4.20	0.0312		0.000745	0.00500
1,1,2-Trichloroethane	79-00-5	5.96	0.0258		0.000790	0.00500
Trichloroethene	79-01-6	4.73	0.0279		0.000950	0.00500
Trichlorofluoromethane	75-69-4	2.48	0.0323		0.000800	0.0250
1,2,3-Trichloropropane	96-18-4	7.70	0.0273		0.00119	0.0125
1,2,4-Trimethylbenzene	95-63-6	7.96	0.0261		0.00161	0.00500
1,3,5-Trimethylbenzene	108-67-8	7.66	0.0267		0.000520	0.00500
Vinyl chloride	75-01-4	2.04	0.0221		0.00117	0.00500
Xylenes, Total	1330-20-7	7.01	0.0792		0.000870	0.0150
1,2,3-Trimethylbenzene	526-73-8	8.31	0.0255		0.000520	0.00500

Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 32.D
 Acq On : 25 Aug 2020 6:54 pm
 Operator : 808
 Sample : MSD 5x WG1531771 L1253654-01
 Misc : soil
 ALS Vial : 29 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 26 10:54:12 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 8260-FLUOROBENZENE	4.635	96	564690	16.0000000	ppb	0.00	
59) 8260-CHLOROBENZENE-D5	6.592	82	260815	16.0000000	ppb	0.00	
81) 8260-1,4-DICHLOROBENZE...	8.293	152	263387	16.0000000	ppb	0.00	
109) AP9-FLUOROBENZENE	4.635	96	564690	16.0000000	ppb	0.00	
123) AP9-CHLOROBENZENE-D5	6.592	82	260815	16.0000000	ppb	0.00	
127) AP9-1,4-DICHLOROBENZEN...	8.293	152	263387	16.0000000	ppb	0.00	
System Monitoring Compounds							
48) 1,2-DICHLOROETHANE-D4	4.483	65	185002	16.9769093	ppb	0.00	
Spiked Amount	16.000		Recovery	= 106.11%			
61) TOLUENE-D8	5.568	98	594165	15.6145857	ppb	0.00	
Spiked Amount	16.000	Range	89 - 115	Recovery	= 97.59%		
80) 4-BROMOFLUOROBENZENE	7.445	95	237824	16.1930428	ppb	0.00	
Spiked Amount	16.000	Range	70 - 129	Recovery	= 101.21%		
Target Compounds						Qvalue	
4) PROPENE	1.739	41	13041	2.6542556	ppb	97	
5) DICHLORODIFLUOROMETHANE	1.782	85	75935	6.4912191	ppb	99	
6) CHLOROMETHANE	1.971	50	47828	4.4561245	ppb	99	
7) VINYL CHLORIDE	2.038	62	45525	4.4105347	ppb	98	
8) 1,3-BUTADIENE	2.007	39	1470	0.1721623	ppb	84	
9) BROMOMETHANE	2.312	94	30378	4.0323631	ppb	97	
10) CHLOROETHANE	2.392	64	27964	4.9703286	ppb	# 95	
11) VINYL BROMIDE	2.471	106	38720	4.5992521	ppb	96	
12) TRICHLOROFLUOROMETHANE	2.477	101	82017	6.4518985	ppb	98	
13) DICHLOROFLUOROMETHANE	2.520	67	105233	6.4903058	ppb	99	
14) ETHYL ETHER	2.660	59	40334	5.0794891	ppb	95	
15) ACROLEIN	3.013	56	33068	78.4428950	ppb	94	
16) ETHANOL	2.745	45	28348	219.2021415	ppb	# 94	
17) 1,1-DICHLOROETHENE	2.806	96	37521	5.0430786	ppb	93	
18) 1,1,2-TRICHLOROTRIFLUO...	2.849	101	46384	6.0877489	ppb	98	
19) ACETONE	3.184	43	139503	38.7196129	ppb	96	
20) IODOMETHANE	2.910	142	362433	22.2223630	ppb	96	
21) CARBON DISULFIDE	2.843	76	77203	3.3058356	ppb	97	
22) ALLYL CHLORIDE	3.099	76	121651	24.1852039	ppb	98	
23) METHYLENE CHLORIDE	3.160	84	49459	5.2060374	ppb	95	
24) METHYL ACETATE	3.245	43	223503	30.0371826	ppb	# 98	
25) ACRYLONITRILE	3.647	53	131831	26.9617473	ppb	99	
26) n-HEXANE	3.294	56	20743	4.3880406	ppb	# 96	
27) TRANS-1,2-DICHLOROETHENE	3.257	96	44435	5.2086471	ppb	99	
28) METHYL TERT-BUTYL ETHER	3.306	73	150193	5.5435549	ppb	91	
29) TERT-BUTYL ALCOHOL	3.336	59	47771	29.1421943	ppb	# 100	
30) 1,1-DICHLOROETHANE	3.617	63	92841	5.6889598	ppb	99	
31) VINYL ACETATE	3.727	43	548744	27.4201358	ppb	99	
32) DI-ISOPROPYL ETHER	3.507	45	178131	6.1759294	ppb	100	
33) ETHYL TERT-BUTYL ETHER	3.714	59	161633	5.7611302	ppb	97	
34) 2,2-DICHLOROPROPANE	3.983	77	59962	5.7402631	ppb	100	
35) CIS-1,2-DICHLOROETHENE	3.922	96	57459	5.8421108	ppb	99	
36) 2-BUTANONE (MEK)	4.227	43	193744	30.4885862	ppb	99	
37) BROMOCHLOROMETHANE	4.038	130	35994	5.3379855	ppb	94	
38) TETRAHYDROFURAN	4.166	42	31005	7.1865809	ppb	94	
39) CHLOROFORM	4.062	83	99178	6.2721214	ppb	98	
40) CYCLOHEXANE	4.050	84	49365	5.0188904	ppb	97	

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 Operator : 808
 Sample : MSD 5x WG1531771 L1253654-01
 Misc : soil
 ALS Vial : 29 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 26 10:54:12 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-TRICHLOROETHANE	4.196	97	83338	6.2417078	ppb	98
42) CARBON TETRACHLORIDE	4.159	117	73094	6.2392146	ppb	100
43) 1,1-DICHLOROPROPENE	4.263	75	60368	5.2463575	ppb	98
44) 2,2,4-TRIMETHYLPENTANE	4.300	57	65720	5.5650505	ppb	93
45) n-Heptane	4.342	71	13104	3.9120699	ppb	# 94
46) BENZENE	4.409	78	195724	5.3745254	ppb	98
47) TERT-AMYL METHYL ETHER	4.434	73	150982	5.5734106	ppb	97
49) 1,2-DICHLOROETHANE	4.519	62	73549	5.7521970	ppb	99
50) T-AMYL ALCOHOL	4.525	59	41243	26.3994624	ppb	92
51) TRICHLOROETHENE	4.733	132	56907	5.5843955	ppb	97
52) METHYL CYCLOHEXANE	4.733	83	45216	4.9068399	ppb	97
53) TERT-AMYL ETHYL ETHER	4.824	59	121133	5.5974568	ppb	99
54) 1,2-DICHLOROPROPANE	5.043	62	37800	5.7878105	ppb	98
55) DIBROMOMETHANE	4.995	93	34492	5.3030046	ppb	96
56) BROMODICHLOROMETHANE	5.068	83	73354	5.9192298	ppb	94
58) CIS-1,3-DICHLOROPROPENE	5.446	75	81432	5.4735051	ppb	99
60) 4-METHYL-2-PENTANONE (...)	5.812	43	392255	28.7946876	ppb	97
62) TOLUENE	5.598	91	216505	5.0766072	ppb	100
63) TRANS-1,3-DICHLOROPROPENE	5.848	75	75812	5.2414364	ppb	96
64) 1,1,2-TRICHLOROETHANE	5.958	97	48825	5.1660583	ppb	98
65) TETRACHLOROETHENE	5.854	164	41462	5.1725776	ppb	99
66) 1,3-DICHLOROPROPANE	6.147	76	79706	5.3582874	ppb	98
67) 2-HEXANONE	6.354	58	149601	26.3735885	ppb	95
68) CHLORODIBROMOMETHANE	6.086	129	58571	5.2616548	ppb	99
69) 1,2-DIBROMOETHANE	6.263	107	51372	4.9481586	ppb	99
70) CHLOROBENZENE	6.604	112	143524	5.3444056	ppb	99
71) 1,1,1,2-TETRACHLOROETHANE	6.635	133	53349	5.3415686	ppb	# 100
72) ETHYLBENZENE	6.598	106	71329	5.2642236	ppb	97
73) M&P-XYLENE	6.696	106	172898	10.5352779	ppb	99
74) O-XYLENE	7.006	106	84661	5.2978643	ppb	99
77) STYRENE	7.037	104	95614	3.5899300	ppb	97
78) BROMOFORM	7.080	173	43653	5.1242927	ppb	96
79) ISOPROPYLBENZENE	7.220	105	200208	5.3012952	ppb	99
82) BROMOBENZENE	7.531	77	89339	5.2034658	ppb	99
83) 1,1,2,2-TETRACHLOROETHANE	7.573	83	71180	5.1513823	ppb	100
84) 1,2,3-TRICHLOROPROPANE	7.695	110	22203	5.4603675	ppb	93
85) TRANS-1,4-DICHLORO-2-B...	7.708	53	16746	4.6674065	ppb	93
86) N-PROPYLBENZENE	7.525	91	220044	5.5369136	ppb	99
87) 4-ETHYLTOLUENE	7.598	105	180523	5.4364358	ppb	99
88) 2-CHLOROTOLUENE	7.659	91	148384	5.5269801	ppb	98
89) 4-CHLOROTOLUENE	7.781	91	144670	5.5145393	ppb	99
90) 1,3,5-TRIMETHYLBENZENE	7.659	105	149944	5.3359188	ppb	97
91) TERT-BUTYLBENZENE	7.909	119	131269	5.4286993	ppb	100
92) 1,2,4-TRIMETHYLBENZENE	7.958	105	145945	5.2186738	ppb	99
93) SEC-BUTYLBENZENE	8.043	105	168232	5.5162223	ppb	100
94) 1,3-DICHLOROBENZENE	8.238	146	88799	5.4712309	ppb	100
95) P-ISOPROPYLTOLUENE	8.147	119	149524	5.4895009	ppb	98
96) DICYCLOPENTADIENE	8.153	66	130319	3.9656552	ppb	98
97) 1,4-DICHLOROBENZENE	8.305	146	90578	5.3879863	ppb	85
98) 1,2,3-TRIMETHYLBENZENE	8.305	105	121665	5.0971309	ppb	99
99) 1,2-DICHLOROBENZENE	8.640	146	85402	5.4595707	ppb	97
100) N-BUTYLBENZENE	8.476	91	113991	5.5640145	ppb	99
101) 1,2-DIBROMO-3-CHLOROPR...	9.280	157	17445	4.7342960	ppb	92
102) 1,3,5-TRICHLOROBENZENE	9.299	180	41029	5.2465255	ppb	98

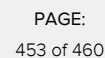
Data Path : C:\msdchem\1\data\082520\
 Data File : 0825 32.D
 Acq On : 25 Aug 2020 6:54 pm
 Operator : 808
 Sample : MSD 5x WG1531771 L1253654-01
 Misc : soil
 ALS Vial : 29 Sample Multiplier: 1
 InstName : VOCMS26

Quant Time: Aug 26 10:54:12 2020
 Quant Method : C:\msdchem\1\methods\V826H21T.M
 Quant Title : Volatile Organics by GC/MS
 QLast Update : Thu Aug 20 09:38:52 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
103) 1,2,4-TRICHLOROBENZENE	9.829	180	35606	5.1125082	ppb		98
104) HEXACHLORO-1,3-BUTADIENE	9.786	225	17774	5.4357289	ppb		97
105) NAPHTHALENE	10.103	128	138150	4.9218304	ppb		99
106) 1,2,3-TRICHLOROBENZENE	10.262	180	32685	4.8518964	ppb		98
107) 1-METHYLNAPHTHALENE	10.975	142	39485	4.6475912	ppb		97
108) 2-METHYLNAPHTHALENE	11.109	142	48161	5.9954403	ppb		93
111) 2-PROPANOL	3.080	45	3466	3.5973602	ppb	#	75
112) ACETONITRILE	3.507	41	30372	17.5131348	ppb	#	39
113) CHLOROPRENE	3.647	53	131831	9.1524618	ppb	#	25
114) PROPIONITRILE	4.434	54	896	0.4319590	ppb	#	1
116) METHACRYLONITRILE	4.483	67	93838	19.6531551	ppb	#	1
118) ISOBUTANOL	4.434	43	53293	63.4597725	ppb	#	74
119) N-BUTANOL	4.824	56	2407	4.7913333	ppb	#	1
121) 1,4-DIOXANE	5.098	88	3509	28.8209965	ppb	#	29
122) N-OCTANE	5.446	85	1694	0.5933095	ppb	#	65
124) 2-NITROPROPANE	5.812	43	392867	84.1471730	ppb	#	44
125) 3,3-DIMETHYL-1-BUTANOL	6.354	57	53746	28.4418791	ppb	#	42
126) ETHYL METHACRYLATE	5.812	69	2890	0.1906491	ppb	#	1
128) CIS-1,4-DICHLORO-2-BUTENE	7.470	53	1021	0.2840809	ppb	#	7
129) CYCLOHEXANONE	7.738	55	601	1.4775269	ppb	#	61
131) HEXACHLOROETHANE	8.476	117	1311	0.2364427	ppb	#	83

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

Quant Time: Aug 26 10:54:12 2020
Quant Method : C:\msdchem\1\methods\V826H21T.M
Quant Title : Volatile Organics by GC/MS
QLast Update : Thu Aug 20 09:38:52 2020
Response via : Initial Calibration



8260 Water VOCs Benchsheet

Batch: WG1531654

Analyst: MGF859 40mLVOAVial Lot#: 41978 pH Strip Lot#: 10BDH0201 Chlorine Strip Lot#: NA Batch Date/Time: 08/25/20 01:46
Prep End Date/Time: 08/25/20 10:39 Method: 8260 SOP: ENV-SOP-MTJL-0100

ICV Standard: 20H24142 Amt. Used: 2.50 µL Exp. Date:08/31/20 LCS/D/MS/D Standard: 20H24142 Amt. Used: 2.50 µL Exp. Date:08/31/20
Internal Standard/Surrogate: 20G06381 Amt. Used: 1 µL Exp. Date:12/17/20

Sample Number	Analytical Dilution	Sample Vol Used (mL)	Final Volume (mL)	pH	Collection Date	Prep Factor	Prep Ratio	Spike Factor	Surrogate Factor	Review Analyst	Review Date	Sample Comments
BLANK	1	5	5	7		1	1	1	1	ACG156	08/25/20 10:39:32	
LCS	1	5	5	7		1	1	1	1	ACG156	08/25/20 10:39:32	
LCSD	1	5	5	7		1	1	1	1	ACG156	08/25/20 10:39:32	
MS(L1253450-07)	1	5	5	<2		1	1	1	1	ACG156	08/25/20 10:39:32	
MSD(L1253450-07)	1	5	5	<2		1	1	1	1	ACG156	08/25/20 10:39:32	
1. L1253448-01	5	5	1	<2	08/20/20 10:20	1	1	1	1	ACG156	08/25/20 10:39:32	V:H 250 5X dilution (5.0mL 20E11131)
2. L1253448-02	200	5	0.025	<2	08/20/20 11:20	1	1	1	1	ACG156	08/25/20 10:39:32	V:H 250 200X dilution (500uL 20E14567)
3. L1253448-03	100	5	0.05	<2	08/20/20 12:30	1	1	1	1	ACG156	08/25/20 10:39:32	V:H 250 100X dilution (500uL 20E14567)
4. L1253448-04	1	5	5	<2	08/20/20 13:35	1	1	1	1	ACG156	08/25/20 10:39:32	
5. L1253448-05	1	5	5	<2	08/20/20 08:00	1	1	1	1	ACG156	08/25/20 10:39:32	
6. L1253449-01	1	5	5	~7	08/19/20 14:46	1	1	1	1	ACG156	08/25/20 10:39:32	
7. L1253449-02	1	5	5	<2	08/19/20 13:37	1	1	1	1	ACG156	08/25/20 10:39:32	
8. L1253449-03	1	5	5	~7	08/19/20 16:00	1	1	1	1	ACG156	08/25/20 10:39:32	
9. L1253450-01	1	5	5	<2	08/18/20 11:00	1	1	1	1	ACG156	08/25/20 10:39:32	
10. L1253450-02	1	5	5	<2	08/18/20 11:35	1	1	1	1	ACG156	08/25/20 10:39:32	Diss. Metals = FF
11. L1253450-03	1	5	5	<2	08/18/20 12:28	1	1	1	1	ACG156	08/25/20 10:39:32	Diss. Metals = FF
12. L1253450-04	1	5	5	<2	08/18/20 16:58	1	1	1	1	ACG156	08/25/20 10:39:32	Diss. Metals = FF
13. L1253450-05	1	5	5	<2	08/18/20 15:04	1	1	1	1	ACG156	08/25/20 10:39:32	Diss. Metals = FF
14. L1253450-06	1	5	5	<2	08/18/20 16:08	1	1	1	1	ACG156	08/25/20 10:39:32	Diss. Metals = FF
15. L1253450-07	1	5	5	<2	08/18/20 14:06	1	1	1	1	ACG156	08/25/20 10:39:32	MS/MSD. Diss. Metals = FF
16. L1253450-08	1	5	5	<2	08/18/20 00:00	1	1	1	1	ACG156	08/25/20 10:39:32	Diss. Metals = FF
17. L1253450-09	1	5	5	<2	08/18/20 00:00	1	1	1	1	ACG156	08/25/20 10:39:32	Diss. Metals = FF
18. L1253450-10	1	5	5	<2	08/19/20 09:01	1	1	1	1	ACG156	08/25/20 10:39:32	Diss. Metals = FF
19. L1253450-11	1	5	5	<2	08/19/20 10:20	1	1	1	1	ACG156	08/25/20 10:39:32	Diss. Metals = FF
20. L1253450-12	1	5	5	<2	08/19/20 11:16	1	1	1	1	ACG156	08/25/20 10:39:32	Diss. Metals = FF

Comments:

Reviewed By:ACG156 on 08/25/20 10:39:32

8260 Water VOCs Benchsheet

Batch: WG1531771

Analyst: AV808 **40mLVOA**Vial Lot#: 41978 **pH Strip Lot#:** 20H24142 **Chlorine Strip Lot#:** na **Batch Date/Time:** 08/25/20 09:42
Prep End Date/Time: 08/25/20 14:04 **Method:** 8260 **SOP:** ENV-SOP-MTJL-0100

ICV Standard: 20H24142 Amt. Used: 2.50 µL Exp. Date:08/31/20 **LCS/D/MS/D Standard:** 20H24142 Amt. Used: 2.50 µL Exp. Date:08/31/20
Internal Standard/Surrogate: 20G06381 Amt. Used: 1 µL Exp. Date:12/17/20

Sample Number	Prep Flags	Analytical Dilution	Sample Vol Used (mL)	Final Volume (mL)	pH	Collection Date	Prep Factor	Prep Ratio	Spike Factor	Surrogate Factor	Review Analyst	Review Date	Sample Comments
BLANK		1	5	5	7		1	1	1	1	ACG156	08/25/20 14:04:16	
LCS		1	5	5	7		1	1	1	1	ACG156	08/25/20 14:04:16	
LCSD		1	5	5	7		1	1	1	1	ACG156	08/25/20 14:04:16	
MS(L1253654-01)		5	5	1	~7		1	1	1	1	ACG156	08/25/20 14:14:36	anti-foam added
MSD(L1253654-01)		5	5	1	~7		1	1	1	1	ACG156	08/25/20 14:14:36	anti-foam added
1. L1252876-02	G2	1	5	5	<2	08/14/20 08:06	1	1	1	1	ACG156	08/25/20 14:04:16	Composite VOC vials per client instructions.
2. L1253041-02		1	5	5	<2	08/21/20 08:00	1	1	1	1	ACG156	08/25/20 14:04:16	Composite VOC vials per client instructions.
3. L1253199-01		1	5	5	~7	08/18/20 09:00	1	1	1	1	ACG156	08/25/20 14:04:16	Composite VOC vials per client instructions.
4. L1253199-02		1	5	5	<2	08/18/20 09:00	1	1	1	1	ACG156	08/25/20 14:04:16	Composite VOC vials per client instructions.
5. L1253199-03		1	5	5	<2	08/18/20 10:00	1	1	1	1	ACG156	08/25/20 14:04:16	Diss. Metals = FF
6. L1253392-02		1	5	5	~7	08/18/20 07:53	1	1	1	1	ACG156	08/25/20 14:04:16	Diss. Metals = FF
7. L1253450-13		1	5	5	<2	08/19/20 12:32	1	1	1	1	ACG156	08/25/20 14:04:16	Diss. Metals = FF
8. L1253450-14		1	5	5	<2	08/19/20 13:05	1	1	1	1	ACG156	08/25/20 14:04:16	Diss. Metals = FF
9. L1253450-15		1	5	5	<2	08/19/20 14:52	1	1	1	1	ACG156	08/25/20 14:04:16	Diss. Metals = FF
10. L1253450-16		1	5	5	<2	08/19/20 15:57	1	1	1	1	ACG156	08/25/20 14:04:16	DROCALVISGT: post analysis SGT.
11. L1253450-17		1	5	5	<2	08/19/20 00:00	1	1	1	1	ACG156	08/25/20 14:04:16	DROCALVISGT: post analysis SGT.
12. L1253454-03		1	5	5	<2	08/17/20 10:10	1	1	1	1	ACG156	08/25/20 14:04:16	DROCALVISGT: post analysis SGT.
13. L1253454-04		1	5	5	<2	08/17/20 12:40	1	1	1	1	ACG156	08/25/20 14:04:16	DROCALVISGT: post analysis SGT.
14. L1253454-05		1	5	5	~7	08/17/20 11:40	1	1	1	1	ACG156	08/25/20 14:04:16	DROCALVISGT: post analysis SGT.
15. L1253454-06		1	5	5	<2	08/17/20 09:27	1	1	1	1	ACG156	08/25/20 14:04:16	DROCALVISGT: post analysis SGT.
16. L1253454-07		1	5	5	~7	08/17/20 13:11	1	1	1	1	ACG156	08/25/20 14:04:16	metals did not preserve due to matrix. metals did not preserve due to matrix.PH ADJ MET 8/23 @1710
17. L1253456-01		1	5	5	<2	08/19/20 15:47	1	1	1	1	ACG156	08/25/20 14:04:16	
18. L1253576-01		2000	5	0.0025	~7	08/20/20 09:35	1	1	1	1	ACG156	08/25/20 14:04:16	pH unadj due to matrix V:F 250 5X dilution (5.0mL 20E11131)
19. L1253618-01		1	5	5	~7	08/21/20 08:00	1	1	1	1	ACG156	08/25/20 14:04:16	
20. L1253654-01		5	5	1	<2	08/21/20 12:00	1	1	1	1	ACG156	08/25/20 14:04:16	pH unadj due to matrix V:F 250 5X dilution (5.0mL 20E11131)

Comments:

Reviewed By:ACG156 on 08/25/20 14:14:36



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

COD	Coefficient of Determination.
Corr.	Correlation Coefficient.
Incpt	Intercept.
Mass	Mass of parameter.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
RRF	Relative Response Factor.
RT	Retention Time.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Slope	Slope of calibration curve.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Wavelength	Wavelength of parameter.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

1 Cp

2 Tc

3 Ss

4 Cn

5 Su

6 Gl

7 Al

8 Sc



Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

- 1Cp
- 2Tc
- 3Ss
- 4Cn
- 5Su
- 6Gl
- 7Al
- 8Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations


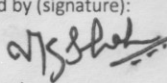
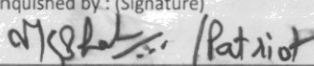
A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Patriot Engineering - Ft. Wayne 6150 E. 75th Street Indianapolis, IN 46250		Billing Information: Attn: Accounts Payable 6150 E. 75 Street Indianapolis, IN 46250		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page <u>1</u> of <u>2</u>							
		Report to: Kendra Grossman Gutowski		Email To: kgrossman@patrioteng.com; SSittler@patrioten												 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859							
Project Description: Douglas Landfill		City/State Collected: MISHAWAKA, IN		Please Circle: PT MT CT ET												SDG # L1253450 I240							
Phone: 317-558-5060		Client Project # 16-1731-04E		Lab Project # PATENGFW-DOUGLAS LF												Acctnum: PATENGFW Template: T142681 Prelogin: P791528 PM: 873 - Heather J Wagner PB: EU							
Collected by (print): mac / VISHAL		Site/Facility ID # MISHAWAKA, IN		P.O. #												Shipped Via: FedEX Ground							
Collected by (signature): 		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Quote #												Remarks Sample # (lab only)							
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>				Date Results Needed																			
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	Cntrs																
MW-01S		G	GW		8/18/20	11:00	3	X											-01				
mw-01I		G	GW		"	11:35	4	X	X											02			
mw-01D		G	GW		"	12:28	4	X	X											03			
mw-5I		G	GW		"	16:58	4	X	X											04			
mw-10S		G	GW		"	15:04	4	X	X											05			
mw-10I		G	GW		"	16:08	4	X	X											06			
mw-13I		G	GW		"	14:06	12	X	X	X	X											07	
DUP-1		G	GW		"	---	4	X	X											08			
DUP-2		G	GW		"	---	4	X	X											09			
mw-11I		G	GW		8-19-20	9:01	4	X	X											10			
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Dissolved metals have been field filtered * Standard TAT * Level IV Data Quality										pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N									
Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier		Tracking # 905008922075-9479																					
Relinquished by: (Signature) 		Date: 08/20/20		Time:		Received by: (Signature)		Trip Blank Received: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No HCL MeOH TBR		Temp: 1.1 ± 0.1 °C Bottles Received: 71		If preservation required by Login: Date/Time											
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp:		Bottles Received:		If preservation required by Login: Date/Time											
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Date:		Time:		Hold: Condition: NCF / <input checked="" type="checkbox"/> OK											

[illegible]