2020 Periodic Review Report

Former Utility Platers and Kingston Diagnostics
BCP No. C356035

Schwenck Drive and Washington Avenue
City of Kingston, Ulster County, New York
Site County, New York

July 2020

Chazen Project No. 41103.20

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Prepared for:

New York State Department of Environmental Conservation
Division of Environmental Remediation, 11th Floor
625 Broadway
Albany, New York 12233

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1.0 EXECUTIVE SUMMARY

On behalf of Woodhaven National Management, LLC, The Chazen Companies, Inc. (Chazen) provides Operations, Maintenance, and Monitoring (OM&M) support for existing remedial systems at the former Utility Platters, Inc./Kingston Diagnostics facility in Kingston, New York (the "Site"). The Site is identified as Brownfield Cleanup Program (BCP) Site No. C356035 and currently houses a CVS pharmacy. A Site Location Map is included as **Figure 1**.

This Periodic Review Report summarizes site conditions and recent on-site treatment system data with respect to the Remedial Action Objectives for the Site and the results, analysis, and conclusions for system operations parameters data and environmental media sampling, collected for the period April 19, 2019 through July 1, 2020. The Site Management Periodic Review Report Notice and Institutional and Engineering Controls Certification Form, signed appropriately, are attached in **Appendix B**.

1.1 Remedial History

The remedy for this site included the 2009 removal of volatile organic compound (VOC) impacted soils from beneath the former on-site Utility Platers building and adjacent areas, the closure and removal of three fuel oil underground storage tanks (USTs) and related petroleum impacted soil, the installation of a sub-slab depressurization (SSDS) system beneath the constructed CVS building, and construction of an impermeable site soil cover system.

1.2 Effectiveness of Remedial Program

- Source soil was removed in 2009. Remaining VOC concentrations in soils at the excavation margin were mostly below Part 375 Restricted Residential Use (RRU) Soil Cleanup Objectives (SCOs).
- Post-remedy groundwater monitoring data suggest that remaining impacts are substantially confined to the site. All data are posted on **Table 2**.
    - MW-2 lies at the downgradient site boundary. CVOC impacts in MW-2 have consistently been less than 50 parts per billion (ppb) since 2015. The CVOC concentration rose to just over 100 ppb in Fall 2019 but returned to low conditions in 2020, dropping to essentially non-detectable in June 2020 (0.66 ppb)
    - MW-5 is cross gradient to former source areas. Dissolved CVOCs rose through 2015 and then fell back to vary between 50 and 100 ppb. The June 2020 total CVOC concentration was 57.24 ppb.
    - MW-1 is situated nearest to the immediate former source area. Total CVOC concentrations rose to the range of 60 ppm in late 2019 and June of 2020. The impacts however remain localized, as indicated:
        - In Spring 2018, new monitoring wells MW-6 and MW-7 were installed near MW-1. Sampling of these showed that CVOCs were not migrating far from MW-1.
        - A June 2020 sample confirms this relationship, with 58.39 ppb total CVOC in MW-7, approximately 0.1% of concentrations in MW-1; NYSDEC has not required continued monitoring of MW-6.
- Post-remedy indoor air sampling was conducted in March 2017. Results demonstrated continued effectiveness of the SSDS. Based on previous correspondence with NYSDEC allowing a reduced schedule of air sampling, the next routine post-remedy air sample will be collected in March 2022.

The operational condition of the SSDS is observed twice annually and screened with a photo-ionization detector.

- The site cover system remains in place to prevent human or ecological contact with soils or groundwater. The cover system consists of a building footprint and pavement.

1.3 Compliance

The SSDS has been operating as intended/designed, no breaching of the impermeable soil cover has been observed, and groundwater monitoring wells remain operational. The SSDS system was operating normally during the site inspection conducted during this monitoring period.

1.4 Recommendations

Chazen recommends continued semi-annual monitoring of three wells MW-1, MW-2 and MW-5 in accordance with the current monitoring and inspection schedule, sufficient to monitor the continuing VOC attenuation occurring at this Site. We recommend continuing annual monitoring of well MW-7 for continued confirmation that CVOCs are not migrating towards the downgradient property boundary.

This site is now nearly ten years into post-closure monitoring. As such, it would appear that elevated quality control measures such as ASP Class B laboratory deliverables and Data Usability Summary Reports (DUSRs) would be no longer necessary. Chazen recommends that only standard laboratory reports be required for future monitoring events. Duplicate samples would continue to be collected as a simpler QC methodology.

The SSDS appears to be functioning as designed/expected and no alterations are recommended at this time. As the required frequency of air quality sampling has been reduced to once every five years per the schedule defined in the SMP, the next air quality sample is due in March/April 2022.

2.0 SITE OVERVIEW

2.1 Site Location and Pre-Remedy Conditions

The site is a 1.73-acre parcel located in a commercial area of the City of Kingston, Ulster County, New York. The site is bounded by Schwenck Drive to the north, Trailways Bus Terminal to the south, Esposito's Dry Cleaning to the east, and Washington Avenue to the west. The current main site features include one commercial retail building occupied as a CVS retail store and pharmacy. A Site Layout Map is included as **Figure 2**. The site formerly contained a masonry block structure known as Utility Platers and a commercial medical office building known as Kingston Diagnostics.

Prior uses of the Site, primarily handling/storage/disposal practices at the former Utility Platers facility, appear to have resulted in impacts to on-site soils and groundwater from the release of the chlorinated solvents trichloroethylene (TCE). TCE as well as daughter products 1,2-dichloroethylene (1,2-DCE) and vinyl chloride (VC) are now present on site. Groundwater impacts extended from the Utility Platers parcel onto the adjacent Kingston Diagnostics parcel, both of which were combined to form the BCP site currently occupied by the CVS retail/pharmacy facility.

2.2 Chronology of Remedial Program

The site remedy was implemented by DT Consulting Services, Inc. in accordance with the NYSDEC-approved Interim Remedial Measure Work Plan dated July 2009. The following is a summary of Remedial Actions and IRMs performed at the site in the BCP:

- Excavation of soil and fill exceeding Restricted-Residential Use (RRU) Soil Cleanup Objectives (SCOs) encountered during historical site investigations including during the remedial investigation (RI). Impacted materials were excavated from areas beneath and downgradient of the former Utility Platers facility to a depth of 10 to 12 feet below the ground surface (bgs) totaling 4,563 tons of material excavated and removed from the site (September 2009).
- Closure and removal of three No. 2 fuel oil underground storage tanks (USTs) and excavation and removal of approximately 350 tons of related petroleum-impacted soil (September 2009).
- Installation of a Sub-slab Depressurization System (SSDS) to remove VOC vapors from beneath the newly completed site structure (June 2010).
- Construction and maintenance of a soil cover system consisting of asphalt pavement to prevent infiltration of storm water into the plume area, to prevent human exposure to remaining impacted soil/fill at the site, and to extend an impermeable surface over the SSDS footprint for vapor control optimization.
- Execution and recording of an Environmental Easement to restrict land use to prevent future human and environmental exposure to residual site contaminants.
- Development and implementation of a Site Management Plan (SMP) for long term management of remaining impacts as required by the Environmental Easement including: 1) Institutional and Engineering Controls; 2) Monitoring; 3) Operation and Maintenance of the SSDS; and 4) Reporting.

These remedial activities were completed at the site between September 2009 and October 2010.

3.0 REMEDY PERFORMANCE, EFFECTIVENESS AND PROTECTIVENESS

3.1 Routine Groundwater Monitoring

Routine groundwater monitoring was conducted in accordance with the Department-approved SMP dated September 2010, the Certificate of Completion (COC) dated December 3, 2010 and correspondence from NYSDEC dated September 18, 2013. Semi-annual monitoring events included the collection and analysis of groundwater from three on-site monitoring wells (MW-1, MW-2, MW-5) and an annual sample from well MW-7 (see **Figure 2**).

Groundwater samples were most recently collected on October 29, 2019 and June 1, 2020, using methodologies consistent with the approved Field Sampling Plan (FSP). The FSP was modified in 2018 following Department approval to switch from purging/sampling wells via disposable bailers to low-flow sampling techniques using a peristaltic pump. The field sampling sheets are in **Appendix A**. Samples were collected in laboratory-provided sample jars and immediately chilled. Duplicate samples were also collected from MW-1 during both sampling events. The Spring 2020 sampling event was delayed from its usual time (March or April) to early June to due to the coronavirus pandemic.

The groundwater samples from wells MW-1, MW-2 and MW-5 were analyzed for VOCs via USEPA Method 8260 and for priority pollutant metals via USEPA Methods 6010 and 7473. Samples from MW-1 were also analyzed for (field-filtered) dissolved metals due to observed sample turbidity. The sample from well MW-7 was only analyzed for VOCs via USEPA Method 8260. NYSDEC has not required further monitoring of MW-6. The SMP also included the sampling of semi-volatile organic compounds (SVOCs); however; based on the general absence of SVOCs detected in historic groundwater samples and the low solubility of SVOCs in groundwater, the Department previously agreed to exclude SVOCs analyses from the post-COC sampling events. The laboratory provided ASP Category B deliverable data packages, which were submitted for data validation to Laboratory Data Consultants (LDC) of Carlsbad, California. The laboratory reports and DUSRS are attached electronically in **Appendix C**.

Table 2 compares groundwater sampling results to groundwater quality standards and total CVOC concentrations are shown on **Figure 2**. Post-remedy groundwater monitoring data indicate that remaining impacts in most locations have been significantly reduced since implementation of the remedy.

- MW-1 showed rising CVOCs through 2017 followed by decreased concentrations in 2018 and early 2019. The Fall 2019 and Spring 2020 results show a marked increase to around 60 ppm total CVOCs. No equivalent increase is noted in other site monitoring wells.
- Total CVOC concentrations in downgradient wells MW-2 have consistently been less than 50 ppb since 2015. CVOC concentrations rose to just over 100 ppb in Fall 2019 but dropped to nearly non-detectable in June 2020 (0.66 ppb).
- Cross-gradient well MW-5 showed rising CVOC concentrations through 2015 that were followed by decreased concentrations. Total CVOC concentrations in MW-5 have consistently been between 50 and approximately 100 ppb for the last seven sampling events. The June 2020 total CVOC value was 57.24 ppb.
- MW-7 was installed adjacent to MW-1. Total COVCs in June 2020 were 58.39, approximately 0.1% of concentrations in MW-1, maintaining a record of constrained CVOC presence around MW-1.

Analytical results show some metals concentrations greater than groundwater quality standards but generally within historic ranges for these analytes.

Selenium concentrations were within historic ranges in the three wells. The June 2020 sample results appear irregular for wells MW-1 and MW-5, leading to concern that select samples may have been reversed . The locations will be resampled later in 2020 as part of continuing site monitoring.

3.3 Site Inspection and Sub-Slab Depressurization System

The SSDS system has operated nearly continuously since start-up in 2010. Chazen used a photo-ionization detector (PID) to screen the bulk concentration of VOCs in the airstream during the October 2019 and June 2020 site visits, and results were 0.0 ppm for both events. The recorded bulk VOC concentration was below the detection limit of the instrument, limiting plausible continuing venting concentrations to the high ppb concentrations at most. The next routine post-remedy air sample will be collected in March 2022.

4.0 INSTITUSTIONAL CONTROL/ENGINEERING CONTROL COMPLIANCE REPORT

4.1 IC/EC Requirements and Compliance

The following IC/ECs are in place at the site:

1. A Composite Cover System- exposure to remaining contamination in soil/fill at the site is prevented by a combination of a minimum of 24 inches of clean soil, asphalt pavement, concrete sidewalks or the concrete building slab. The visual integrity of this system is reviewed during each annual site inspection and noted on a Site Inspection Report (**Appendix A**). An Excavation Work Plan presented in the SMP outlines procedures required in the event that the cover system is observed to be breached, penetrated, or any underlying contaminated material is disturbed. Based on the June 2020 inspection, the cover appears to be in-place and does not appear to have been breached. Some rutting of surface soil was noted near well MW-1 in June 2020, and the roadbox was found covered with two to three inches of loose soil. Chazen cleaned off the roadbox, and three concrete-filled PVC bollards were installed in this area to protect the well head from vehicles.
2. SSDS- An active SSDS was installed on the property in 2010 and contains a blower unit continuously depressurizing a sub-slab gravel layer with slotted PVC piping. The blower vents through the roof of the building, continuously vacuuming air from beneath the sub-slab to draw any impacted air past occupied spaces. Procedures for operating and maintaining the SSDS are documented in the O&M Plan of the SMP. The SSDS is evaluated through an annual inspection of the system and through collection of an air quality sample once every five years. Copies of the annual system inspection forms are included in **Appendix A** and a figure of the SSDS design is included as **Figure 4**.
3. Groundwater Monitoring-Monitored Natural Attenuation – Post-remedy groundwater monitoring activities to assess ongoing natural attenuation are conducted semi-annually, and will continue until residual groundwater concentrations are less than groundwater quality standards or become asymptotic at an acceptable level to the NYSDEC. This report documents groundwater monitoring results.
4. The property may be used for “Restricted-residential use,” “Commercial use” and/or “Industrial use” as described within 6 NYCRR Part 375-1.8(g)(2)(ii), (iii) and (iv). The property continues to be used for commercial purposes.
5. Data and information pertinent to the SMP of the Controlled Property must be reported at the frequency and manner defined in the SMP. This report provides the required annual PRR submittal.
6. Access to the Site must be provided to agents, employees or other representatives of the state of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement.

4.2 IC/EC Certification

The EC/IC Certification forms are included in **Appendix B**.

5.0 MONITORING PLAN COMPLIANCE REPORT

5.1 Components of the Monitoring Plan

The Monitoring Plan included sampling of five existing groundwater monitoring wells on a semi-annual basis for the first two years following completion of remedial activities in late 2010, annual sampling of indoor air and SSDS discharge for the first five years followed by sampling every five years thereafter until year 15, and annual visual inspection of the impermeable cover system. NYSDEC authorized the decommissioning of monitoring wells MW-3 and MW-4 in 2013, and reduced the indoor air sampling frequency to every five years in 2015 The remaining monitoring plan components are as follows:

1. Three monitoring wells (MW-1, MW-2 and MW-5) monitor up- and down-gradient conditions at the site. Groundwater sampling is typically conducted semi-annually in March/April and October/November. Well sampling activities are logged on field data sheets (**Appendix A**), which serve as the inspection form for the well network. Groundwater samples are analyzed for VOCs and priority pollutant metals. Wells are inspected during each sampling event. If an event renders the wells unusable, or if the approval is granted that well sampling is no longer required, they will be properly decommissioned and/or replaced. The NYSDEC will be notified prior to any well repair or decommissioning. Monitoring well MW-7, situated as an inspection well adjoining MW-1, is sampled once annually for VOCs.

2. SSDS discharge monitoring is performed at least annually, by taking a PID reading of the effluent. IAQ sampling is conducted once every five years, during the heating season. Sampling activities for the SSDS are recorded in the designated field book and field logs. IAQ samples are analyzed for VOCs via USEPA Method TO-15. In addition, the SSDS system is inspected twice-annually to determine if it is functioning properly, if there is foundation damage or building defects that could reduce its effectiveness, and to assess blower conditions. The next indoor air sample will be collected in March 2022.

3. A site-wide inspection of the facility is conducted at least annually in April as well as after a severe weather condition that may affect ECs or monitoring devices. An inspection form is completed after each inspection (**Appendix A**). The inspection assesses compliance with ICs and site usage; condition and continued effectiveness of ECs; general site conditions, site management activities being conducted, and compliance with the O&M Plan.

5.2 Summary of Monitoring Completed During Reporting Period

Monitoring completed during the reporting period (October 2019 and June 2020) has included two groundwater sampling events of three to four of the five remaining on-site wells, two inspections of the SSDS and two site-wide inspections. Groundwater sampling points are depicted on **Figure 2**. **Table 1** provides groundwater elevations for each sampling event. **Table 2** shows available pre-remediation groundwater data (2009), and post-remediation groundwater sampling data to the present. Field sampling sheets and copies of the Site-Wide Inspection Forms and SSDS Inspection Forms are attached in **Appendix A**.

5.3 Comparisons with Remedial Objectives

Soil

- Post excavation sampling completed during the remedy and IRMs confirmed that Track 4 Restricted Residential SCOs were met for most post-excavation soil samples. Post-excavation soil sampling revealed that most remaining soil met Restricted Residential SCOs.
- Soil samples obtained from CB-1 (MW-6) and CB-2 (MW-7) during the March 2018 limited investigation did not identify CVOCs concentrations exceeding Part 375 SCOs.

Groundwater

- Dissolved CVOCs in sampled monitoring wells remain above groundwater standards (**Table 2**).
- MW-2 lies at the downgradient site boundary. CVOC impacts in MW-2 have consistently been less than 50 parts per billion (ppb) since 2015. The CVOC concentration rose to just over 100 ppb in Fall 2019 but returned to low conditions in 2020, dropping to essentially non-detectable in June 2020 (0.66 ppb)
- MW-5 is cross gradient to former source areas. Dissolved CVOCs rose through 2015 and then fell back to vary between 50 and 100 ppb. The June 2020 total CVOC concentration was 57.24 ppb.
- MW-1 is situated nearest to the immediate former source area. Total CVOC concentrations rose to the range of 60 ppm in late 2019 and June of 2020. The impacts however remain localized, as indicated by CVOCs in adjacent well MW-7 where in June of 2020 totaled 58.39 ppb, equaling approximately 0.1% of concentrations in MW-1. Subsequent 2020 and 2021 sampling will help assess whether the recent CVOC concentrations remain elevated in MW-1.
- Analytical results show some metals concentrations greater than groundwater quality standards but generally within historic ranges for these analytes. Selenium concentrations were within historic ranges in the three wells. Select sample results for wells MW-1 and MW-5 may have been reversed.

Indoor Air

- The SSDS system was last inspected in March 2019 and appears to be functioning normally. The next air quality sample event is due to be conducted in March 2022.

5.4 Monitoring Deficiencies

No monitoring deficiencies were identified during the sampling and reporting period.

5.5 Conclusions and Recommendations for Changes

Chazen recommends continued monitoring of wells MW-1, MW-2 and MW-5 in accordance with the current monitoring and inspection schedule, sufficient to monitor the continuing VOC attenuation occurring at this Site. We recommend continuing annual monitoring of well MW-7 for continued confirmation that CVOCs recorded in MW-1 remain localized.

Indoor air quality sampling once every five years (next event March 2022) should be maintained as well as general O&M of the site's paved surfaces.

This site is now nearly ten years into post-closure monitoring. As such, it would appear that elevated quality control measures such as ASP Class B laboratory deliverables and Data Usability Summary Reports (DUSRs) would be no longer necessary. Chazen recommends that only standard laboratory reports be required for future monitoring events. Duplicate samples would continue to be collected as a simpler QC methodology.

6.0 OPERATION AND MAINTENANCE (O&M) PLAN COMPLIANCE REPORT

6.1 Components of the O&M Plan

The O&M Plan presented in the SMP includes the steps necessary to operate and maintain the on-site SSDS and include an O&M contingency plan. Non-mechanical ECs (i.e., soil cover system) are discussed in the EC/IC Control Plan.

The SSDS has operated at the site continuously since start-up on May 15, 2010. The system includes a vapor barrier, gravel layer, slotted vent pipe network, riser pipe with roof vent and in-line fan. The system must remain powered at all times to operate successfully and a control box is locked securely to prevent unauthorized shut off.

Routine operation of the blower unit includes ensuring availability of a continuous power source to the blower motor and confirmation that the piping does not leak or have blockages. Routine equipment maintenance is to be conducted as needed and includes annual inspection and cleaning of the vapor riser pipe outlets, and collection and analyses of air quality samples per the annual sampling schedule. Non-routine equipment maintenance would include cutting through the concrete floor slab to install new equipment or make other building modifications to maintain the integrity and performance of the SSDS. In the event of a non-routine condition (i.e., system damage or reduced effectiveness which would initiate a red warning light, and/or system component replacements), the Site owner will notify the NYSDEC within 24 hours and proceed with the needed maintenance and/or repair.

6.2 Summary of O&M Completed During Reporting Period

SSDS inspections were conducted in October 2019 and June 2020. No deficiencies in the system were noted which required maintenance or repair from the prior March 2019 inspection to the current period.

6.3 Evaluation of Remedial Systems

Based on the results of the annual monitoring of the SSDS, the SSDS appears to be performing as designed/expected.

6.4 O&M Deficiencies

No O&M deficiencies were noted during the reporting period. Some soil rutting and soil movement was noted near MW-1 so bollards have been installed near MW-1 to protect this monitoring location.

6.5 Conclusions and Recommendations for Improvement

The SSDS appears to be functioning as designed/expected. There are no recommendations for changes to the O&M Plan at this time.

7.0 OVERALL PERIODIC REVIEW REPORT CONCLUSIONS AND RECOMMENDATIONS

7.1 Compliance with the Site Management Plan

IC/ECs in place at the site include an active SSDS and an impermeable cover system.

- Inspection of the SSDS during October 2019 and June 2020 indicate that the SSDS is operating as designed/expected. No maintenance of the system has occurred or was found to be necessary during the reporting period.

- Site-wide inspections conducted in October 2019 and June 2020 indicate that groundwater monitoring wells are in place and in good condition and that no visible breaches in the impermeable cover were noted. In addition, the site is currently occupied as a CVS retail store and pharmacy which is in compliance with the allowed uses of the site.

- Groundwater monitoring was conducted in October 2019 and June 2020. The SMP schedule has been satisfied for this monitoring period.

7.2 Performance and Effectiveness of the Remedy and Recommendations

- Semi-annual groundwater monitoring suggests that remaining impacts have been reduced in most locations since implementation of the remedy. Dissolved CVOCs have risen in the location of MW-1 while falling or remaining stable elsewhere on site. MW-7 suggests the impact at MW-1 remains localized.
- SSDS monitoring and air quality results indicate that the SSDS is working effectively.

The combined results of the site inspection, groundwater sampling, and annual SSDS inspection suggest that the remedy continues to protect the environment and public health.

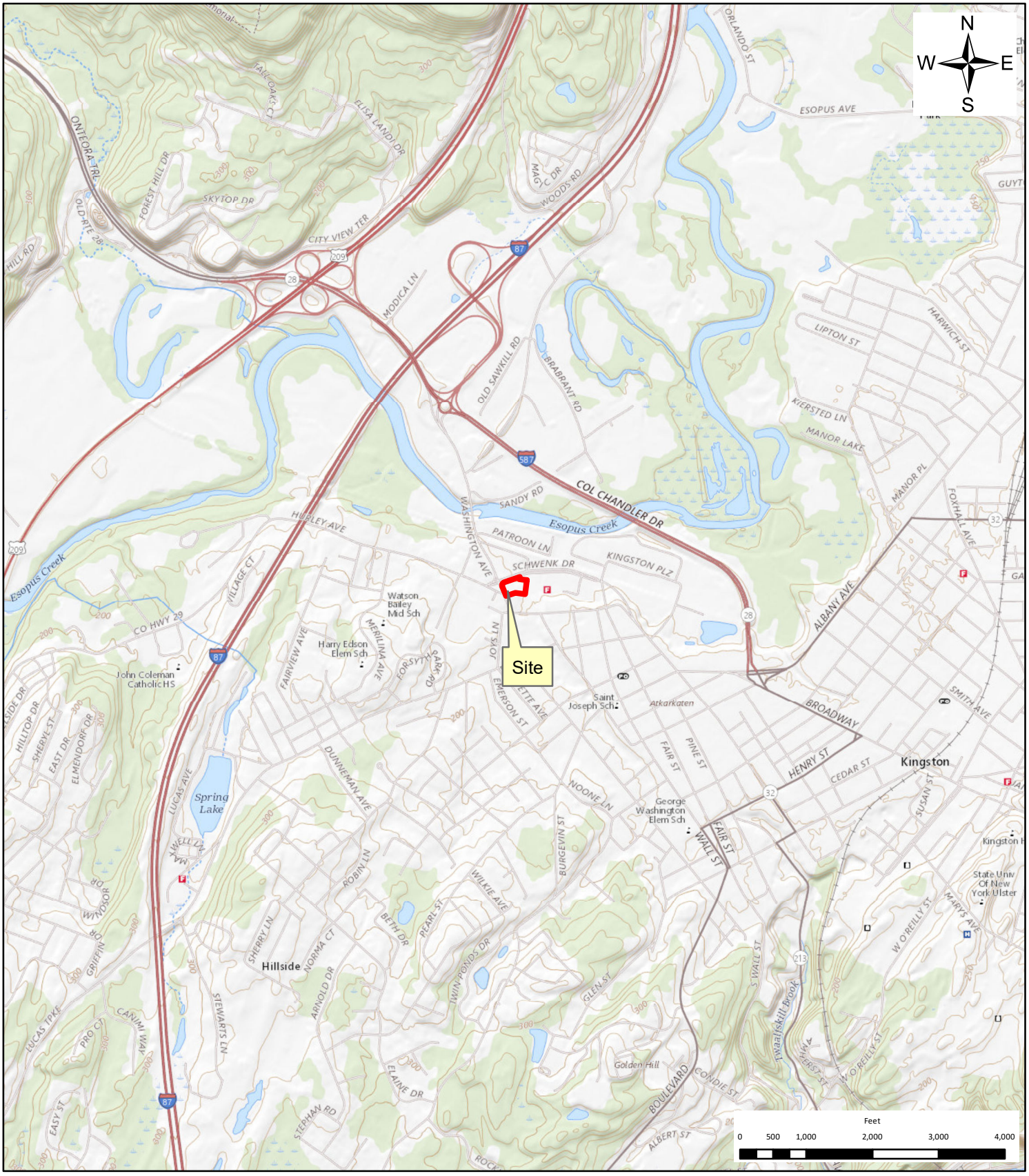
Chazen recommends performing scheduled semi-annual sampling in October/November 2020 and March/April 2021.

No other recommendations for changes to the O&M or monitoring plans are warranted at this time.

7.3 Future PRR Submittals

Monitoring for the tenth reporting period will include semi-annual groundwater monitoring, SSDS monitoring, and a site-wide inspection. An annual report will be submitted to the NYSDEC for these events in July 2021.

FIGURES



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Former Utility Platers/Kingston Diagnostics Site

Figure 1: Site Location Map

167 Schwenck Drive
City of Kingston, Ulster County, New York

Source: USGS National Map topographic map data (server-based), accessed 7/15/2020; Ulster County Office of Real Property Services tax parcel data, 2007.

Drawn:	EJO
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Project:	41103.00
Figure:	1

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Phone: (518) 812-0513

Former Utility Platers/Kingston Diagnostics Site

Figure 2: Site Layout Map

167 Schwenck Drive
City of Kingston, Ulster County, New York

Source: i-Cubed Nationwide Prime orthoimagery program eData, accessed 7/15/2020;
Ulster County Office of Real Property Services tax parcel data, 2007;
other site features mapped by Chazen based on field work conducted 2011-2020.

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Figure:	2

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Glens Falls, NY 12801
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Former Utility Platers/Kingston Diagnostics Site

Figure 3: Groundwater Contour Map

167 Schwenck Drive
City of Kingston, Ulster County, New York

Source: i-Cubed Nationwide Prime orthoimagery program eData, accessed 7/15/2020;
Ulster County Office of Real Property Services tax parcel data, 2009;
other site features mapped by Chazen based on field work conducted 2011-2020.

Drawn:	EJO
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Scale:	1:600
Project:	41103.20
Figure:	3

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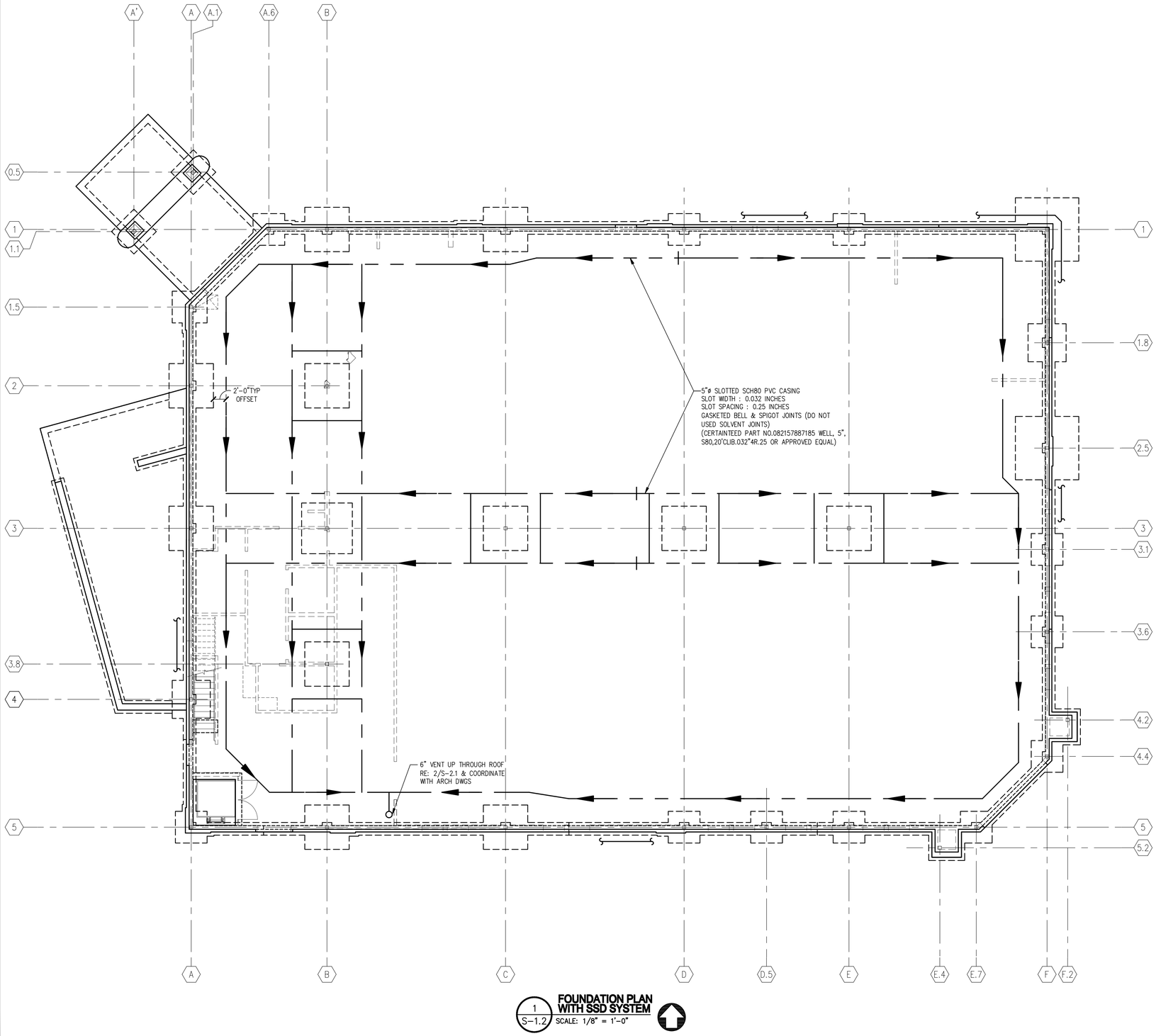
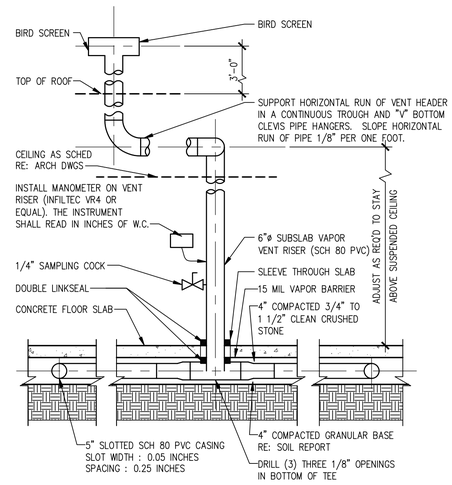


1 S-1.2 **FOUNDATION PLAN WITH SSD SYSTEM**
SCALE: 1/8" = 1'-0"



2 S-1.2 **SSD SYSTEM VAPOR VENT RISER**
SCALE: 1/2" = 1'-0"

NOTE: FOOTINGS ARE CENTERED ON COLUMNS, UNO

Larson Design Group

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ARCHITECTS ENGINEERS SURVEYORS

SEAL:

CVS/pharmacy

PROJECT TYPE: NEW 12900 9.1.06 TYPE A

STORE NUMBER: 8945

WASHINGTON AVE. & SCHWENK DR. (SEC)
KINGSTON, NY 12401

DEVELOPER:

NORTHEAST RETAIL LEASING
& MANAGEMENT CO.
360 BLOOMFIELD AVE.
SUITE 303
WINDSOR, CT 06095
TEL (860) 683-9000
FAX (860) 683-1600

REVISIONS:

LAYOUT COORDINATOR:	T. MARTIN
CONSTRUCTION MGR.	B. FLANNERY
DRAWING BY:	RLH
DATE:	13 JUL 2009
JOB NUMBER:	6544-002

TITLE:
SUB-SLAB DEPRESSURIZATION SYSTEM

SHEET NUMBER:
S-1.2

COMMENTS:
BID DOCUMENT

Figure 4- SSDS Layout

TABLES

Table 1: Monitoring Well and Groundwater Elevations
BCP Site No. C356035 - Former Utility Platers and Kingston Diagnostics (Current CVS Building)
Washington Avenue and Schwenck Drive, City of Kingston, Ulster County, New York

Well ID	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)								
		4/20/2011	10/20/2011	3/27/2012	10/9/2012	3/11/2013	10/25/2013	3/26/2014	10/3/2014	4/6/2015
MW-1	164.70	150.47	150.36	149.80	149.67	150.26	149.61	150.67	148.91	149.86
MW-2	160.56	148.06	148.02	143.37	143.91	145.70	142.34	147.19	145.02	145.06
MW-3	158.75	153.17	153.32	151.54	152.03	151.72	NA	NA	NA	NA
MW-4	168.32	162.40	162.48	161.75	161.80	162.10	NA	NA	NA	NA
MW-5	162.51	155.67	155.88	154.03	154.14	154.08	153.47	154.57	152.92	153.81
MW-6	165.62	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	159.93	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

1) AMSL = Above Mean Sea Level

2) Top of Casing Elevations were obtained from a site survey map dated June 2, 2010 and created by Brinner and Larios.

3) NA - groundwater elevation not applicable, as well was abandoned.

Table 1: Monitoring Well and Groundwater Elevations
BCP Site No. C356035 - Former Utility Platers and Kingston Diagnostics (Current CVS Building)
Washington Avenue and Schwenck Drive, City of Kingston, Ulster County, New York

Well ID	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)								
		10/16/2015	3/16/2016	3/23/2017	11/13/2017	3/5/2018	11/1/2018	3/28/2019	10/29/2019	6/1/2020
MW-1	164.70	149.29	148.43	149.55	149.32	150.51	149.60	150.12	149.17	149.39
MW-2	160.56	143.00	143.23	146.45	142.96	147.72	146.09	146.93	147.75	144.71
MW-3	158.75	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	168.32	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	162.51	154.21	153.88	154.89	153.94	154.29	154.36	153.93	153.30	153.19
MW-6	165.62	NA	NA	NA	NA	151.05	NA	NA	NA	NA
MW-7	159.93	NA	NA	NA	NA	150.51	NA	150.00	NA	149.43

NOTES:

1) AMSL = Above Mean Sea Level

2) Top of Casing Elevations were obtained from a site survey map dated June 2, 2010 and created by Brinner and Larios.

3) NA - groundwater elevation not applicable, as well was abandoned.

The Chazen Companies
July 2020

Table 2: Groundwater Monitoring Data
BCP Site No. C356035 - Former Utility Platers and Kingston Diagnostics Site (Current CVS Building)
Washington Avenue and Schwenk Drive, City of Kingston, Ulster County, New York

Sample Location				MW-1																															
Sample Date				12/23/2009	4/20/2011	4/20/2011 (MW-DUP)	10/20/2011	10/20/2011 (MW-DUP)	3/27/2012	3/27/12 (MW-DUP)	10/9/2012	3/11/2013	3/11/2013 (MW-DUP)	10/25/2013	3/26/2014	3/26/2014 (MW-DUP)	10/3/2014	10/3/2014 (MW-DUP)	4/6/2015	4/6/2015 (MW-DUP)	10/16/2015	10/16/2015 (MW-DUP)	3/16/2016	3/16/2016 (MW-DUP)	3/23/2017	3/23/2017 (MW-DUP)	11/13/2017	11/13/2017 (MW-DUP)	3/5/2018	3/5/2018 (MW-DUP2)	11/1/2018	11/1/18 (MW-DUP)	3/28/2019	3/28/19 (MW-DUP)	10/29/2019	10/29/2019 (MW-DUP)	6/1/2020	6/1/2020 (MW-DUP)
Analyte		Units	Part 703 Groundwater	Pre-Remedy Results	Post-Remedy Results																															
EPA Method 8260 Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	ug/L	5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane		5*	3	1.2 J	1.2 J	2.8 J	2.8 J	1.3 J	1.3 J	1.7 J	1.2 J	1.4 J	ND	ND	1.4 J	ND	ND	ND	ND	2.0	1.7	ND	ND	ND	ND	ND	ND	2.4 J	2.2 J	ND	ND	2.8	2.7	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane		1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	0.47 J	0.53	0.43 J	ND
	1,1-Dichloroethane		5*	**23**	3.8 J	3.7 J	**5.3**	**5.8**	**6.4**	**6.2**	**7.5**	3.1 J	2.8 J	6.8	1.4 J	1.4 J	ND	ND	**7.3**	**7.1**	**7.7**	**9.2**	**6.8**	**6.5**	ND	ND	ND	ND	3.7 J	3.7 J	**6.4 D**	**5.7 J**	1.6	1.6	**18**	**17**	**21**	**20**
	1,1-Dichloroethylene		5*	**38**	3.1 J	3.5 J	3.4 J	3.4 J	**8.2**	**7.6**	**5.5**	1.3 J	1.2 J	6.6	ND	0.50 J	ND	ND	**11.0**	**11.0**	**28**	**37**	**22**	**21**	ND	ND	ND	ND	ND	ND	**24 D**	**18 J**	4.3	4.1	**91**	**92**	**150**	**130**
	1,1-Dichloropropylene		NS/5	--	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	1,2,3-Trichlorobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND J	ND J	ND J	ND J	ND	ND	ND J	ND J	ND	ND
	1,2,3-Trichloropropane		0.04	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trimethylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	1,2,4-Trichlorobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,4-Trimethylbenzene		5*	**16**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropane		0.04	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane		NS/5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene		3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane		0.6	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethylene (Total)		5*	**8,435**	**1,026**	**629**	**1,624**	**1,324**	**1,975**	**2,070**	**1,029**	**572**	**710**	**2,457**	**568**	**216.6**	**18,260**	**9,720**	**4,397 J**	**4,093 J**	**7,840**	**9,690**	**6,570**	**5,850**	**5,530**	**5,140**	**27,630 DJ**	**26,620 DJ**	**750**	**802**	**8,470 D**	**15,300 D**	**920 D**	**956 D**	**32,890 D**	**35,810 D**	**28,770 D B**	**27,730 D B**
	1,2-Dichloropropane		1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND
	1,3,5-Trimethylbenzene		5*	**4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND
	1,3-Dichlorobenzene		3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3-Dichloropropane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	1,4-Dichlorobenzene		3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Chlorohexane		NS	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	2,2-Dichloropropane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	2-Chlorotoluene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	4-Chlorotoluene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	Benzene		1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33 J	ND	ND	ND	0.23 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.28 J	ND	ND	0.88	0.89	1.00	0.92
	Bromobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	Bromochloromethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromodichloromethane		NS/50	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND
	Bromoform		NS/50	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND
	Bromomethane		5*	--	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND	ND	ND J	ND J	ND	ND
	Carbon Tetrachloride		5	--	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform		7	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.28 J	0.27 J	ND	ND	ND	ND
	Chloromethane		NS/5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	0.29 J	0.34 J	1.1 B	1.6 B
	cis-1,3-Dichloropropylene		0.4**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND
	Dibromochloromethane		NS/50	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND
	Dibromomethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	R	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND
	Dichlorodifluoromethane		5*	--	ND	ND	ND	ND	R	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND
	Ethylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Hexachlorobutadiene		0.5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND J	ND J	ND J	ND J	ND	ND
	Isopropylbenzene		5*	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND
	Methyl tert-butyl ether (MTBE)		NS/10	--	ND	ND	ND	ND	ND J	ND J	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methylene chloride		5*	6	3.4 JB	4.0 JB	4.5 JB	4.4 JB	ND	ND	ND	2.4 J	3.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Naphthalene		10	1	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	6.0 J	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	n-Butylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND J	ND J	ND	ND	ND	ND
	n-Propylbenzene		5*	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND
	o-Xylene		5*	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	R	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	p-&m-Xylenes		5*	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	p-Isopropyltoluene		5*	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND
	sec-Butylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND
	Styrene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	R	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	tert-Butylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND J	ND J	ND	ND
	Tetrachloroethylene		5*	**12**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33 J	0.30 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.34 J	0.35 J	0.28 J	ND J	ND J	0.31 J	0.31 J
	Toluene		5*	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.56	0.76	0.34 J	0.32 J	ND	ND	ND	ND	ND	ND	0.64 JD	0.44 J	ND	ND	1.5	1.4	1.5	1.3
	trans-1,3-Dichloropropylene		0.4**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND
	Trichloroethylene		5*	**14,000**	**800**	**500**	**130**	**180**	**1,200**	**1,200**	**670 DJ**	**490**	**620**	**1,800**	**490**	**250**	**14,000**	**5,100**	**4200 J**	**3800 J**	**8,700**	**10,000**	**6,500 DJ**	**5,900 DJ**	**4,700**	**4,500**	**23,000 DJ**	**23,000 DJ**	**780**	**840**	**8,800 JD**	**15,000 DJ**	**1,300 DJ**	**1,300 DJ**	**26,000 D**	**28,000 D**	**24,000 D B**	**23,000 D B**
	Trichlorofluoromethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl chloride		2	**3,900**	**130**	**150**	**100**	**110**	**160 J**	**170 J**	**190 J**	**99**	**83**	ND	**84**	**30**	**1,000**	**1,500**	**450**	**480**	ND	ND	**930**	**930**	**580 DJ**	**570 DJ**	**2,500 DJ**	**2,300 DJ**	**110**	**120**	**1,400 D**	**1,500 D**	**150**	**140**	**4,600 D**	**4,000 D**	**5,100 D**	**4,800 D**
	TOTAL CVOCs			**26,451**	**1,964**	**1,287**	**1,866**	**1,626**	**3,351**	**3,455**	**1,904**	**1,167**	**1,418**	**4,270**	**1143**	**500**	**33,260**	**16,320**	**9,065.3**	**5,391**	**16,579**	**19,738**	**14,029**	**12,708**	**10,810**	**10,210**	**53,130**	**51,920**	**1,646.1**	**1,767.9**	**18,700.4**	**31,824.04**	**2,379.33**	**2,404.95**	**63,599.76**	**67,920.10**	**58,045.34**	**55,684.13**
			Sample Date	12/23/2009	4/20/2011	4/20/2011	10/20/2011	10/20/2011	3/27/2012	3/27/2012	10/9/2012	3/11/2013	3/11/2013	10/25/2013	3/26/2014	3/26/2014	10/3/2014	10/3/2014	4/6/2015	4/6/2015	10/16/2015	10/16/2015	3/16/2016	3/16/2016	3/23/2017	3/23/2017	11/13/2017	11/13/2017	3/5/2018	3/5/2018	11/1/2018	11/1/2018	3/28/2019	3/28/2019	10/29/2019	10/29/2019	6/1/2020	6/1/2020
EPA Method 6010 Priority Pollutant Metals	Antimony	ug/L	3	ND	ND	ND	**5**	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6**	**7**	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	1.93 J Di	1.88 J Di	ND Di	ND
	Arsenic		25	ND	11	ND	10	ND	ND	ND	10	ND	5	7	ND	ND	**48**	**56**	15	14	**30**	23	16 J	16 J	19	17	**31 J**	21	ND	ND	ND	ND	ND	ND	**25.5 Di**	23.7 Di	ND Di	ND
	Beryllium		11***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	2	1	1	ND	ND	ND	2	3	ND	ND	ND	ND	ND	ND	ND Di	ND Di	ND Di	ND
	Cadmium		5	**31**	**63**	**59**	**114**	**126**	**47**	**42**	**7**	**120**	**95**	**33**	**121**	**103**	**116**	**116**	**75**	**78**	**91**	**78**	**64**	**33**	**28**	**24**	**82**	**87**	**77**	**78**	**6**	**8**	**60 J**	**59 J**	ND Di	ND Di	ND Di	ND
	Chromium		50	13	11	8	29	32	5	ND	ND	28	17	8	21	15	**85**	**113**	13	18	**74**	41	12	6	31	28	10	19	11	23	8	ND	**138 J**	**139 J**	ND Di	ND Di	ND Di	ND
	Copper		200	38	8	6	17	18	ND	ND	ND	13	5	20	R	R	128	167	26	33	101	71	108	31	45	39	78 J	**270 B**	9	17	ND	26	ND	ND	3.69 Di	ND Di	ND Di	ND
	Lead		25	**33**	4	3	7	6	3 J	ND	ND	5	ND	3	ND	ND	**71**	**92**	7	10	**51**	**39**	**70**	15	13	11	**84**	**124**	ND	6	ND	13	ND J	ND J	ND Di	ND Di	ND Di	ND
	Nickel		100	**257**	**309**	**307**	**660**	**703**	**749**	**748**	**266**	**288**	**286**	**477**	**307**	**319**	**933**	**897**	**870**	**857**	**367**	**321**	**226**	**185**	**184**	**188**	**394**	**449**	**190**	**194**	**179**	**182**	**145 J**	**139 J**	**338 Di**	**315 Di**	**342 Di**	ND
	Selenium		10	**14**	ND	ND	ND	ND	**22 J**	**16 J**	**15**	**13**	**11**	ND	**14**	ND	ND	ND	ND J	ND J	**15**	ND	ND	ND	ND	ND	ND	ND	**50**	**51**	**51 J**	**46 J**	**85 J**	**94 J**	5.93 J Di	5.72 J Di	9.5 Di	3.9
	Silver		50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND Di	ND Di	ND Di	ND
	Thallium		8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND Di	ND Di	ND Di	ND
	Zinc		NS/2,000	136	158	146	234	244	144	139	78	239	191	104	302	285	493	544	250	259	466	325	244	103	130	116	263	426	154	168	ND	36	138	129	12.7 J Di	13.9 J Di	ND Di	ND
	Mercury		0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND Di	ND Di	ND Di	ND

Table 2: Groundwater Monitoring Data
BCP Site No. C356035 - Former Utility Platers and Kingston Diagnostics Site (Current CVS Building)
Washington Avenue and Schwenk Drive, City of Kingston, Ulster County, New York

Sample Location				MW-2																		
Sample Date				12/23/2009	4/20/2011	10/20/2011	3/27/2012	10/9/2012	10/9/2012 (DUP)	3/11/2013	10/25/2013	3/26/2014	10/3/2014	4/6/2015	10/16/2015	3/16/2016	3/23/2017	11/13/2017	3/5/2018	11/1/2018	3/28/2019	10/29/2019	6/1/2020
Analyte		Units	Part 703 Groundwater Standard	Pre-Remedy Results	Post-Remedy Results																	
EPA Method 8260 Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	ug/L	5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane		1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	1,1-Dichloroethane		5*	ND	1.1 J	1.3 J	1.3 J	1.7 J	1.4 J	ND	ND	ND	1.3	ND	0.53	0.37 J	0.62	0.47 J	0.48 J	0.31 J	ND	ND	ND
	1,1-Dichloroethylene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.41 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloropropylene		NS/5	--	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	1,2,3-Trichlorobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND J	ND
	1,2,3-Trichloropropane		0.04	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trimethylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
	1,2,4-Trichlorobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND J	ND	ND	ND
	1,2,4-Trimethylbenzene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	1,2-Dibromo-3-chloropropane		0.04	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane		NS/5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	1,2-Dichlorobenzene		3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane		0.6	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethylene (Total)		5*	**33**	**17**	**25**	**29**	**48**	**45**	**27**	**18**	**20.28 J**	**34.42 J**	**25 J**	**11**	**7.2**	**17.2**	**11 .21 J**	**14**	**13.36 J**	0.96	**36.3**	ND
	1,2-Dichloropropane		1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	1,3,5-Trimethylbenzene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	1,3-Dichlorobenzene		3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3-Dichloropropane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	1,4-Dichlorobenzene		3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Chlorohexane		NS	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	2,2-Dichloropropane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	--	--	--	--	--
	2-Chlorotoluene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	4-Chlorotoluene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	Benzene		1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	Bromochloromethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromodichloromethane		NS/50	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	Bromoform		NS/50	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	Bromomethane		5*	--	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND J	ND J	ND J	ND J	ND J	ND J	ND
	Carbon Tetrachloride		5	--	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform		7	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane		NS/5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND J	ND
	cis-1,3-Dichloropropylene		0.4**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	Dibromochloromethane		NS/50	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	Dibromomethane		5*	--	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	Dichlorodifluoromethane		5*	--	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	Ethylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Hexachlorobutadiene		0.5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND J	ND
	Isopropylbenzene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	Methyl tert-butyl ether (MTBE)		NS/10	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methylene chloride		5*	4	3.6 JB	4.9 JB	ND	ND	ND	ND	ND	ND	ND	2.6 J	2.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Naphthalene		10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	n-Butylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND
	n-Propylbenzene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND
	o-Xylene		5*	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	p-&m-Xylenes		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	p-Isopropyltoluene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND
	sec-Butylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND
	Styrene		5*	--	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	tert-Butylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	Tetrachloroethylene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	0.23 J	0.24 J
	Toluene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropylene		0.4**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	Trichloroethylene		5*	**51**	3.6 J	3.2 J	ND	3.3 J	2.8 J	1.8 J	ND	1.4 J	2.2 J	ND J	1.6	0.83 J	1.60	0.88 J	1.7	6.0 J	2.2 J	**40.0**	0.42 J
	Trichlorofluoromethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl chloride		2	**10**	**7.1**	**6.7**	**5.7**	**8.8**	**7.0**	ND	ND	**12**	**20**	**6.9**	**3.7**	1.1	**3.2**	1.4 J	**2.2**	2.7	ND	**9.6**	ND
	TOTAL CVOCs			**94**	**28.8**	**36.2**	**36.0**	**61.8**	**56.2**	**28.8**	**18**	**33.68**	**58.33**	**31.9**	**16.83**	**9.5**	**22.65**	**13.96**	**18.38**	**22.39**	**3.16**	**86.13**	**0.66**
			Sample Date	**12/23/2009**	**4/20/2011**	**10/20/2011**	**3/27/2012**	**10/9/2012**	**10/9/2012**	**3/11/2013**	**10/25/2013**	**3/26/2014**	**10/3/2014**	**4/6/2015**	**10/16/2015**	**3/16/2016**	**3/23/2017**	**11/13/2017**	**3/5/2018**	**11/1/2018**	**3/28/2019**	**10/29/2019**	**6/1/2020**
EPA Method 6010 Priority Pollutant Metals	Antimony	ug/L	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6**	ND	ND J	ND	ND	ND	ND J	ND
	Arsenic		25	**29**	ND	ND	ND	ND	ND	ND	**43**	ND	ND	5	6	ND	6	ND J	ND	ND	ND	ND	ND
	Beryllium		11***	**6**	ND	ND	ND	ND	ND	ND	**5**	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND
	Cadmium		5	10	ND	ND	ND	ND	ND	4	**30**	4	ND	ND	ND	ND	5	ND	ND	ND	ND J	1.04	ND
	Chromium		50	**58**	12	7	5	ND	ND	7	**160**	7	8	8	6	ND	13	ND	ND	7	ND J	1.59	ND
	Copper		200	**430**	9	5	6 J	6	7	ND	ND	6 J	13	12	40	19	28	R	11	30	ND	6.87	ND
	Lead		25	**552**	10	7	6 J	8	6	7	7	7	9	6	**30**	11	5	ND	ND	21	ND J	ND	ND
	Nickel		100	**113**	41	27	33	18	19	73	73	73	28	30	17	ND	27	28	ND	19	ND J	42	ND
	Selenium		10	**28**	10	12	**21 J**	**18**	**17**	**19**	**19**	**19**	ND	ND J	ND	ND	ND	**23 J**	**80**	**56 J**	**37 J**	3.29 J	2.9
	Silver		50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Thallium		8	ND	ND	ND	ND	**21**	**21**	ND	ND	ND	ND	ND	8	7	27	ND	**34**	ND	ND	ND	ND
	Zinc		NS/2,000	431	44	26	35	34	43	57	57	57	43	26	127	26	60	57	ND	47	ND	19.5 J	ND
	Mercury		0.7	**1.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND

Table 2: Groundwater Monitoring Data
BCP Site No. C356035 - Former Utility Platers and Kingston Diagnostics Site (Current CVS Building)
Washington Avenue and Schwenk Drive, City of Kingston, Ulster County, New York

Sample ID				MW-5																		
Sample Date				1/14/2010	4/20/2011	10/20/2011	3/27/2012	10/9/2012	3/11/2013	10/25/2013	10/25/13 (MW-DUP)	3/26/2014	10/2/2014	4/6/2015	10/16/2015	3/16/2016	3/23/2017	11/13/2017	3/5/2018	11/1/2018	3/28/2019	10/29/2019	6/1/2020
Analyte		Units	Part 703 Groundwater Standard	Pre-Remedy Results	Post-Remedy Results																	
EPA Method 8260 Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	ug/L	5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane		5*	ND	ND	ND	ND	ND	ND	ND	ND	0.47 J	ND	ND	0.69	0.27 J	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane		1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	1,1-Dichloroethane		5*	ND	ND	ND	ND	0.81 J	ND	ND	ND	0.85	2.1 J	ND	1.9	0.85	0.34 J	0.63 J	0.35 J	0.41 J	0.33 J	0.49 J	0.44 J
	1,1-Dichloroethylene		5*	ND	ND	ND	ND	**53**	ND	ND	ND	1.1	2.1 J	ND	2.9	1.1	0.37 J	ND	ND	0.46 J	0.32 J	0.50	0.31 J
	1,1-Dichloropropylene		NS/5	--	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
	1,2,3-Trichlorobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND J	ND
	1,2,3-Trichloropropane		0.04	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trimethylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
	1,2,4-Trichlorobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND J	ND	ND	ND
	1,2,4-Trimethylbenzene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	1,2-Dibromo-3-chloropropane		0.04	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane		NS/5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND
	1,2-Dichlorobenzene		3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane		0.6	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethylene (Total)		5*	ND	ND	3.4 J	ND	ND	**7.2**	**49**	**51**	**37.58**	**95**	**84 J**	**96.6**	**44.56**	**20.26**	**36.44 J**	**20.30 J**	**26.47 J**	**16.27 J**	**42.2**	**19.28 J**
	1,2-Dichloropropane		1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	1,3,5-Trimethylbenzene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	1,3-Dichlorobenzene		3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3-Dichloropropane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
	1,4-Dichlorobenzene		3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Chlorohexane		NS	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
	2,2-Dichloropropane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	--	--	--	--
	2-Chlorotoluene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
	4-Chlorotoluene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
	Benzene		1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
	Bromochloromethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromodichloromethane		NS/50	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	Bromoform		NS/50	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND J	ND	ND
	Bromomethane		5*	--	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND J	ND J	ND J	ND J	ND J	ND
	Carbon Tetrachloride		5	--	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.56	0.21 J	ND	ND	ND	ND	ND	ND	ND
	Chloroform		7	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.28 J	ND	ND	ND	ND	ND
	Chloromethane		NS/5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	1.1	ND	0.29 J	0.21 J
	cis-1,3-Dichloropropylene		0.4**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	Dibromochloromethane		NS/50	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	Dibromomethane		5*	--	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	Dichlorodifluoromethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	Ethylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Hexachlorobutadiene		0.5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND J	ND
	Isopropylbenzene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	Methyl tert-butyl ether (MTBE)		NS/10	--	ND	ND	ND J	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methylene chloride		5*	2	3.9 JB	4.6 JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Naphthalene		10	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
	n-Butylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND
	n-Propylbenzene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	o-Xylene		5*	ND	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	p-&m-Xylenes		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	p-Isopropyltoluene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	sec-Butylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	Styrene		5*	--	ND	ND	ND	ND	ND	ND	ND	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	tert-Butylbenzene		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	Tetrachloroethylene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND J	ND
	Toluene		5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND
	trans-1,3-Dichloropropylene		0.4**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
	Trichloroethylene		5*	ND	ND	**6.1**	ND	**45**	**9.4**	**78**	**84**	**110**	**230**	**290 J**	**400 E**	**150 J**	**39**	**56 J**	**51**	**70 J**	**31 J**	**67**	**37**
	Trichlorofluoromethane		5*	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl chloride		2	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	0.41 J	ND	ND	ND	ND	0.30 J	ND	**2.9**	ND
	TOTAL CVOCs					**9.5**		**98.81**	**16.6**	**127**	**135**	**150.00**	**329.2**	**374**	**503.06**	**196.99**	**59.97**	**93.35**	**71.65**	**98.74**	**47.92**	**113.38**	**57.24**
			Sample Date	**1/14/2010**	**4/20/2011**	**10/20/2011**	**3/27/2012**	**10/9/2012**	**3/11/2013**	**10/25/2013**	**10/25/2013**	**3/26/2014**	**10/3/2014**	**4/6/2015**	**10/16/2015**	**3/16/2016**	**3/27/2017**	**11/13/2017**	**3/5/2018**	**11/1/2018**	**3/28/2019**	**10/29/2019**	**6/1/2020**
EPA Method 6010 Priority Pollutant Metals	Antimony	ug/L	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**7**	**8**	ND J	**9**	ND	ND	ND J	ND
	Arsenic		25	ND	ND	ND	ND	ND	ND	ND	4	ND	7	9	**26**	ND	7	ND J	ND	ND	ND	2.90	ND
	Beryllium		11***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND
	Cadmium		5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	**10**
	Chromium		50	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	9	8	ND	6	ND	ND	ND	ND J	ND	13
	Copper		200	94	ND	7	ND J	ND	ND	5	4	R	ND	10	46	14	24	R	13	ND	ND	1.86	ND
	Lead		25	**47**	3	6	ND J	ND	ND	ND	4	ND	ND	3	**27**	6	4	ND	ND	ND	ND J	ND	ND
	Nickel		100	29	8	5	ND	ND	5	12	12	5	18	13	36	ND	ND	ND J	ND	11	ND J	3.52	**321**
	Selenium		10	ND	ND	ND	ND	ND	**11**	ND	ND	ND	**11**	ND J	ND	ND	ND	ND	**99**	35 J	**102 J**	3.29 J	9.7
	Silver		50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Thallium		8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**17**	ND	**9**	ND	ND	ND	ND	ND	ND
	Zinc		NS/2,000	80	35	25	ND	20	22	29	29	22	32	19	154	29	38	ND	ND	ND	ND	8.32 J	ND
	Mercury		0.7	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND

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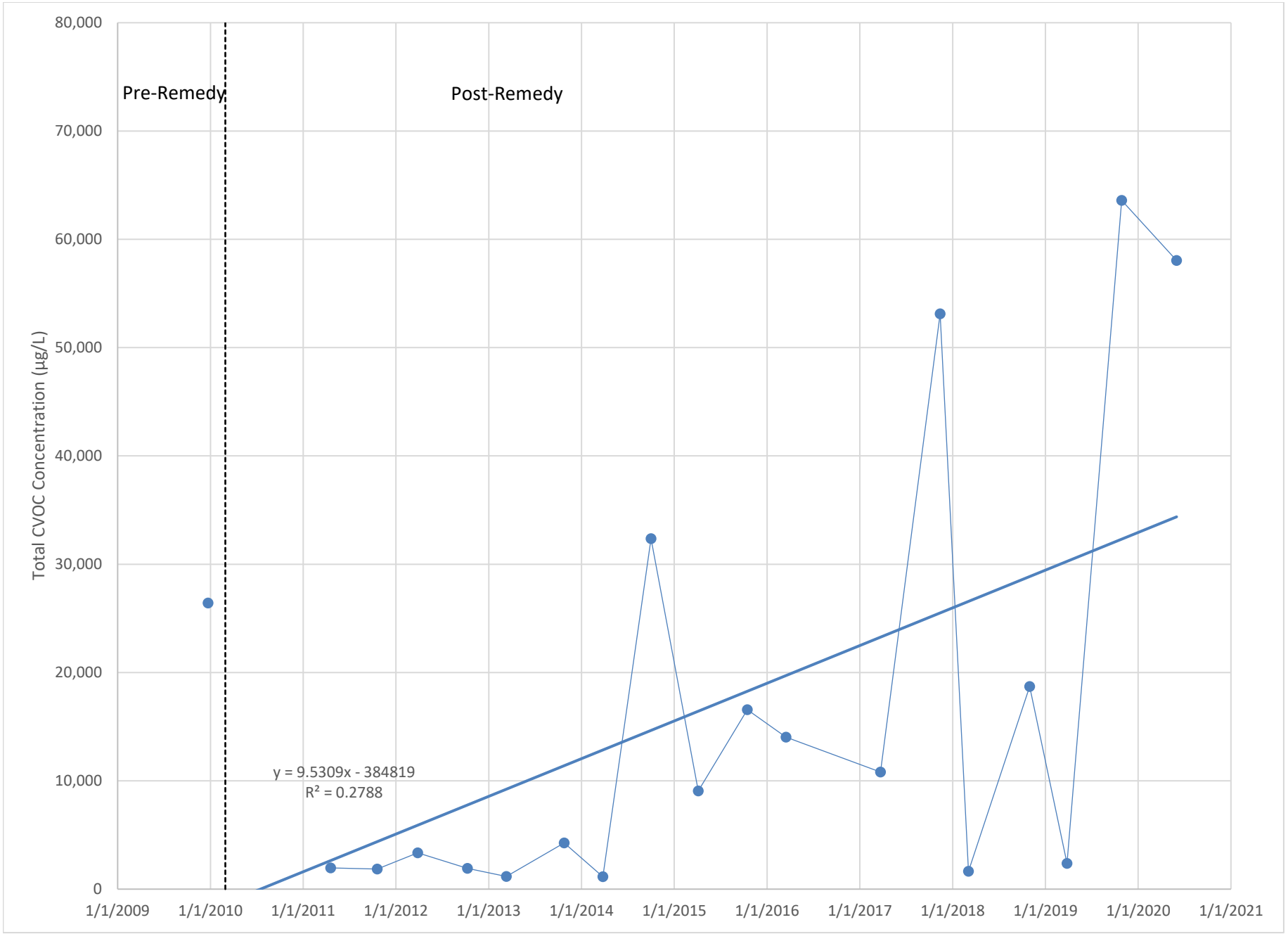
Table 2: Groundwater Monitoring Data
BCP Site No. C356035 - Former Utility Platers and Kingston Diagnostics Site (Current CVS Building)
Washington Avenue and Schwenk Drive, City of Kingston, Ulster County, New York

Sample ID				MW-7		
Sample Date				3/5/2018	3/28/2019	6/1/2020
Analyte		Units	Part 703 Groundwater Standard	Post-Remedy Results		
EPA Method 8260 Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	ug/L	5*	ND	ND	ND
	1,1,1-Trichloroethane		5*	1.5	0.28 J	1.20
	1,1,2,2-Tetrachloroethane		5*	ND	ND	ND
	1,1,2-Trichloroethane		1	ND	ND	ND
	1,1-Dichloroethane		5*	3.6	0.29 J	3.6
	1,1-Dichloroethylene		5*	0.25 J	ND	0.22 J
	1,1-Dichloropropylene		NS/5	--	--	--
	1,2,3-Trichlorobenzene		5*	ND J	ND	ND
	1,2,3-Trichloropropane		0.04	ND	ND	ND
	1,2,3-Trimethylbenzene		5*	--	--	--
	1,2,4-Trichlorobenzene		5*	ND	ND	ND
	1,2,4-Trimethylbenzene		5*	ND	ND	ND
	1,2-Dibromo-3-chloropropane		0.04	ND	ND	ND
	1,2-Dibromoethane		NS/5	ND	ND	ND
	1,2-Dichlorobenzene		3**	ND	ND	ND
	1,2-Dichloroethane		0.6	ND	ND	ND
	1,2-Dichloroethylene (Total)		5*	**11.35 J**	**8.70**	**11.47 J**
	1,2-Dichloropropane		1	ND	ND	ND
	1,3,5-Trimethylbenzene		5*	ND	ND	ND
	1,3-Dichlorobenzene		3**	ND	ND	ND
	1,3-Dichloropropane		5*	--	--	--
	1,4-Dichlorobenzene		3**	ND	ND	ND
	1-Chlorohexane		NS	--	--	--
	2,2-Dichloropropane		5*	--	--	--
	2-Chlorotoluene		5*	--	--	--
	4-Chlorotoluene		5*	--	--	--
	Benzene		1	ND	ND	0.20 J
	Bromobenzene		5*	--	--	--
	Bromochloromethane		5*	ND	ND	ND
	Bromodichloromethane		NS/50	ND	ND	ND
	Bromoform		NS/50	ND	ND J	ND
	Bromomethane		5*	ND	ND J	ND
	Carbon Tetrachloride		5	ND	ND	ND
	Chlorobenzene		5*	ND	ND	ND
	Chloroethane		5*	ND	ND	ND
	Chloroform		7	0.32 J	ND	ND
	Chloromethane		NS/5	ND	ND	3.0
	cis-1,3-Dichloropropylene		0.4**	ND	ND	ND
	Dibromochloromethane		NS/50	ND	ND	ND
	Dibromomethane		5*	ND	ND	ND
	Dichlorodifluoromethane		5*	ND	ND	ND
	Ethylbenzene		5*	ND	ND	ND
	Hexachlorobutadiene		0.5	ND	ND J	ND
	Isopropylbenzene		5*	ND	ND	ND
	Methyl tert-butyl ether (MTBE)		NS/10	ND	ND	ND
	Methylene chloride		5*	ND	ND	ND
	Naphthalene		10	--	--	--
	n-Butylbenzene		5*	ND	ND J	ND
	n-Propylbenzene		5*	ND	ND	ND
	o-Xylene		5*	ND	ND	ND
	p-&m-Xylenes		5*	ND	ND	ND
	p-Isopropyltoluene		5*	ND	ND	ND
	sec-Butylbenzene		5*	ND	ND	ND
	Styrene		5*	ND	ND	ND
	tert-Butylbenzene		5*	ND	ND	ND
	Tetrachloroethylene		5*	ND	ND	ND
	Toluene		5*	ND	ND	ND
	trans-1,3-Dichloropropylene		0.4**	ND	ND	ND
	Trichloroethylene		5*	**39**	**17**	**38**
	Trichlorofluoromethane		5*	ND	ND	ND
	Vinyl chloride		2	**2.9**	ND	**1.7**
	TOTAL CVOCs			**58.92**	**26.27**	**58.39**

Graph 1: Linear Regression of Total CVOCs in Monitoring Well MW-1
Former Utility Platers/Kingston Diagnostics Site, 167 Schwenck Drive, City of Kingston, Ulster County, New York



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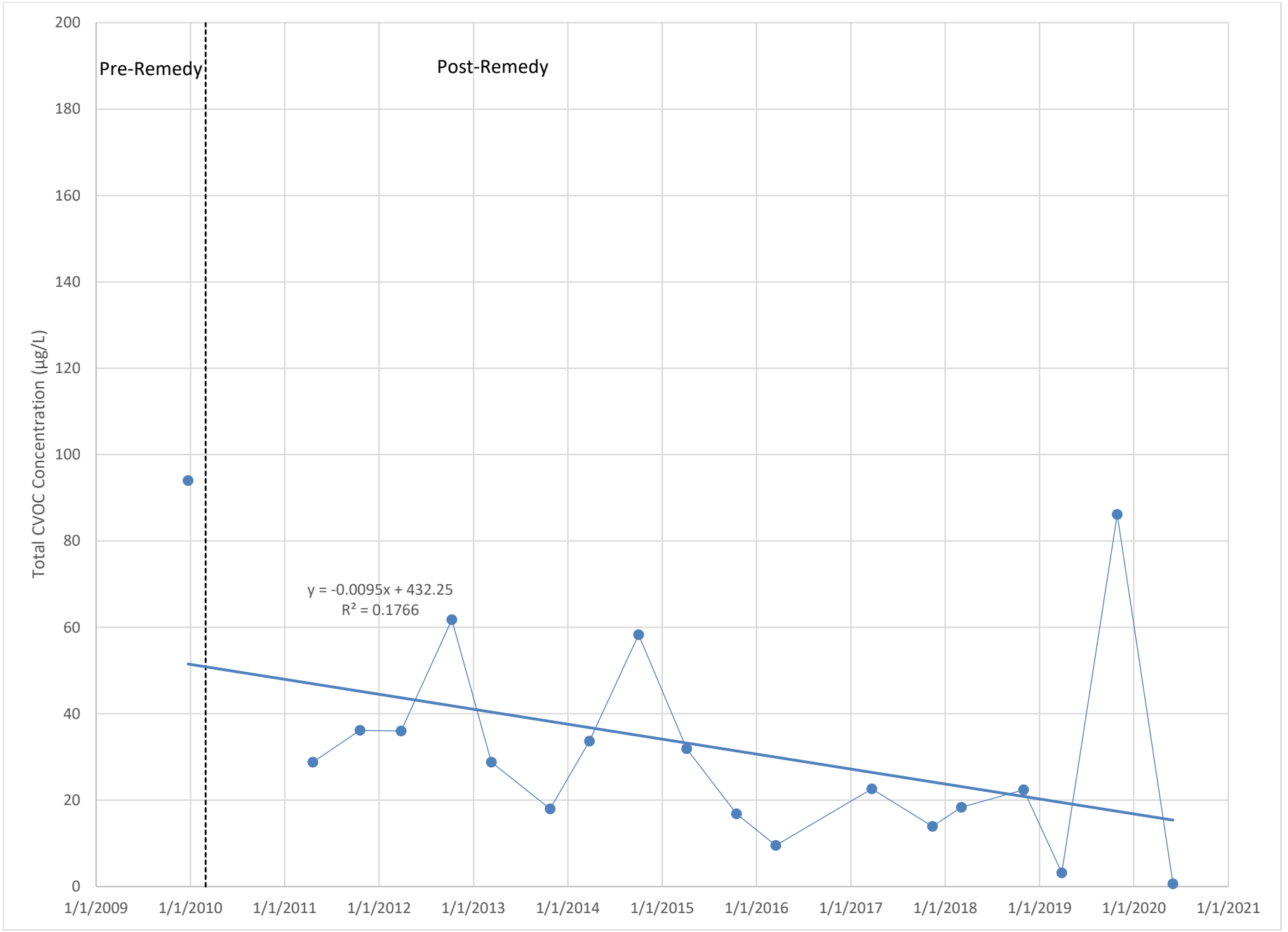
Graph 2: Linear Regression of Total CVOCs in Monitoring Well MW-2
Former Utility Platers/Kingston Diagnostics Site, 167 Schwenck Drive, City of Kingston, Ulster County, New York



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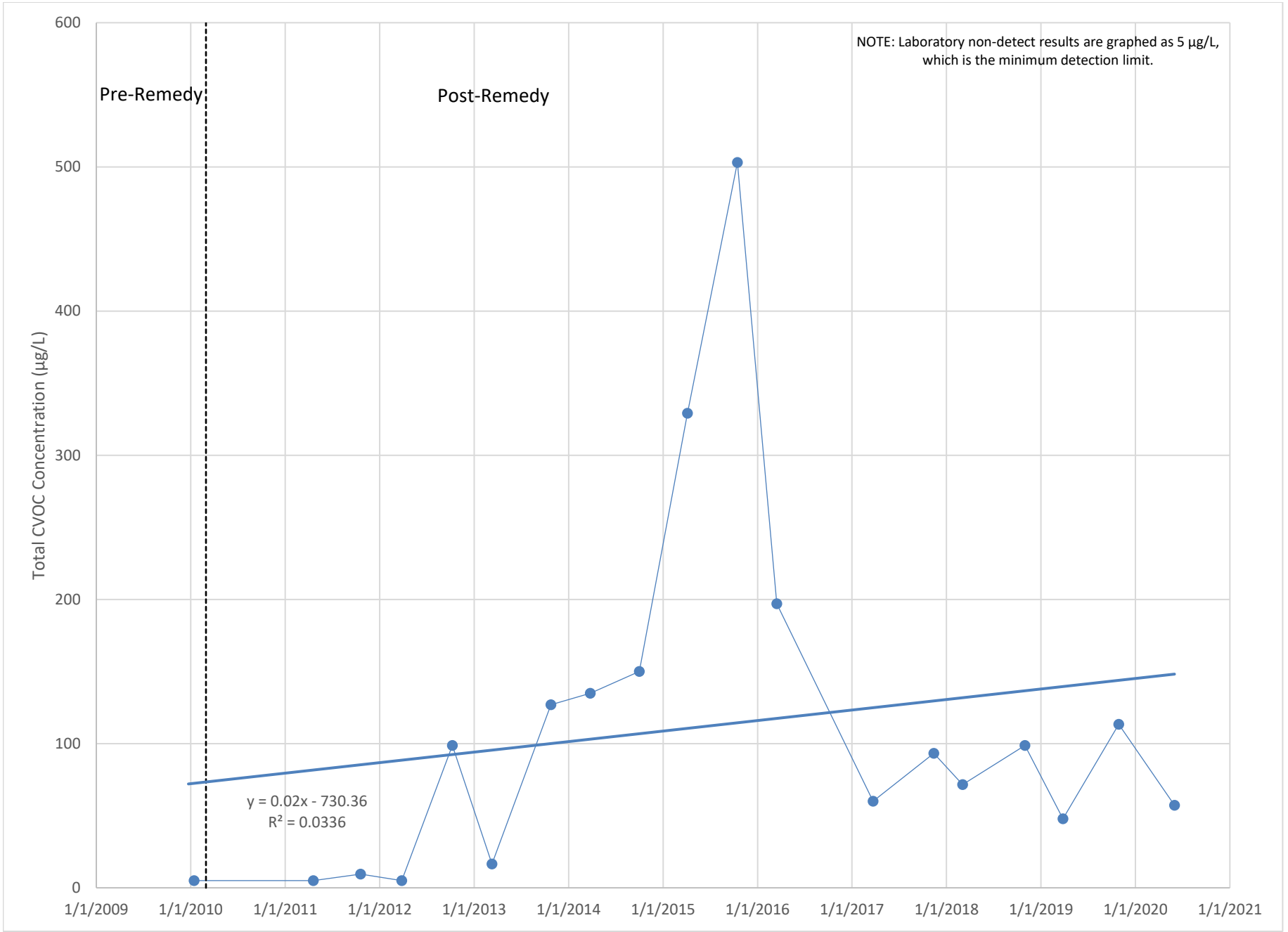
Graph 3: Linear Regression of Total CVOCs in Monitoring Well MW-5
Former Utility Platers/Kingston Diagnostics Site, 167 Schwenck Drive, City of Kingston, Ulster County, New York



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Appendix A:
Field Sampling Data Sheets, SSDS Monitoring Forms, Site-Wide Inspection Forms

GROUNDWATER SAMPLING FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	KC-MW-01 1019	Sample Time:	17:45	Sample Matrix *(circle)* :	
Well ID:	MW-01	Sample Date:	10/29/2019	***Groundwater***	Soil
Project Name:	KINGSTON CVS	Sample Tech(s):	E. ORLOWSKI	Surface Water	Air
Sample Location:	KINGSTON, NY	Project and Task #:	41103.19	Drinking Water	Other:
		Project Manager:	E. ORLOWSKI		

WELL INFORMATION:

Well Condition: Good.

Lock Type: NONE - FLUSH MOUNT Key #: NA

PURGE DATA:

Measuring Point: TOC-PVC ***(B)***

Depth to Bottom: 26.20

Depth to Water: 15.53

Water Column Height: ***(A)*** 10.67

(depth to bottom - depth to water)

# of Volumes to be Purged: ***(C)*** N/A

Gal. to be Purged: ***(AxBxC)*** N/A

Pipe Width	Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	**0.163**
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: PERISTALTIC - LOW FLOW

Start Date: 10/29/2019

Start Time: 3:42:00 PM

Stop Time: 4:53:00 PM

Purge Rate (gpm): 0.03

Elapsed Time (min): 71

Well Vol. Purged (#): 1.2

Purge Vol. (gal): 2.05

Well went dry? No **Yes**

Conditions: **No Odor** Odor

Clear **Slightly-Turbid** Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm[c]	uS/cm	visual	g/L		mg/L		mV	
0.0	15:42	15.53	15.2	2695		clear	1.7550	none	1.37	6.64	336.6	
0.14	15:47	16.19	15.1	2763		clear	1.8005	none	0.64	6.70	295.5	
0.29	15:52	16.92	15.1	2775		clear	1.8005	none	0.41	6.71	206.1	
0.44	15:57	17.40	15.1	2768		clear	1.8005	none	0.33	6.71	165.7	
0.58	16:02	17.99	15.1	2765		clear	1.7940	none	0.29	6.71	135.2	
0.73	16:07	18.65	15.0	2770		clear	1.8005	none	0.26	6.72	107.4	
0.87	16:12	19.37	15.0	2769		clear	1.8005	none	0.25	6.72	80.2	
1.02	16:17	20.00	15.0	2767		clear	1.8005	none	0.24	6.71	62.0	
1.16	16:22	20.59	15.0	2766		clear	1.8005	none	0.24	6.72	51.0	
1.31	16:27	21.11	15.0	2768		slight	1.8005	none	0.24	6.71	38.9	
1.45	16:32	21.68	15.0	2776		slight	1.8070	none	0.24	6.71	28.5	
1.60	16:37	22.48	15.0	2784		slight	1.8070	none	0.24	6.71	19.1	
1.74	16:42	23.29	15.0	2777		slight	1.8070	none	0.24	6.71	13.0	
1.89	16:47	24.17	15.0	2769		slight	1.8005	none	0.24	6.68	11.4	
2.03	16:52	25.04	15.0	2763		slight	1.7940	none	0.24	6.71	11.1	
2.05	16:53		Well Went Dry									
SAMPLE	17:45	23.83	Insufficient recharge in well to obtain parameters									

SAMPLE INFORMATION:

Sample Method: PERISTALTIC *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite Sample Depth:

Weather: OVERCAST Barometric Pres.: Wind: LIGHT BREEZE

Air Temp.(°F): 60s

Notes: FIELD DUPLICATE COLLECTED HERE (KC-MW-DUP 1019)

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
YORK	TCL VOCS BY 8260	STANDARD
	PRIORITY POLLUTANT METALS	
	DISSOLVED P. P. METALS	

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

GROUNDWATER SAMPLING FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	KC-MW-02 1019	Sample Time:	15:19	Sample Matrix *(circle)*:	
Well ID:	MW-02	Sample Date:	10/29/2019	***Groundwater***	Soil
Project Name:	KINGSTON CVS	Sample Tech(s):	E. ORLOWSKI	Surface Water	Air
Sample Location:	KINGSTON, NY	Project and Task #:	41103.19	Drinking Water	Other:
		Project Manager:	E. ORLOWSKI		

WELL INFORMATION:

Well Condition: Good.

Lock Type: NONE - FLUSH MOUNT Key #: NA

PURGE DATA:

Measuring Point:	TOC-PVC			Purge Method:	PERISTALTIC - LOW FLOW
Depth to Bottom:	24.50	Pipe Width	Gal/Foot	Start Date:	10/29/2019
Depth to Water:	12.81	1.0"	0.041	Start Time:	2:48:00 PM
Water Column Height: ***(A)***	11.69	1.5"	0.092	Stop Time:	3:18:00 PM
(depth to bottom - depth to water)		**2.0"**	**0.163**	Purge Rate (gpm):	0.04
		2.5"	0.255	Elapsed Time (min):	30
# of Volumes to be Purged: ***(C)***		3.0"	0.367	Well Vol. Purged (#):	0.7
	N/A	4.0"	0.653	Purge Vol. (gal):	1.25
		6.0"	1.469	Well went dry?	**No** Yes
Gal. to be Purged: ***(AxBxC)***		8.0"	2.611	Conditions:	**No Odor** Odor
	N/A				**Clear** Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm[c]	uS/cm	visual	g/L		mg/L		mV	
0	14:48	12.81	16.2	1819		clear	1.1830	none	1.30	6.86	377.2	
0.21	14:53	13.66	16.2	1767		clear	1.1505	none	0.54	6.64	369.0	
0.42	14:58	14.36	16.3	1752		clear	1.1375	none	0.38	6.57	340.0	
0.63	15:03	15.30	16.4	1750		clear	1.1375	none	0.31	6.55	311.4	
0.84	15:08	16.10	16.5	1758		clear	1.4440	none	0.23	6.55	285.5	
1.05	15:13	16.86	16.5	1761		clear	1.4440	none	0.21	6.54	264.1	
1.25	15:18	17.47	16.6	1763		clear	1.4440	none	0.21	6.54	246.4	

SAMPLE INFORMATION:

Sample Method: PERISTALTIC *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite Sample Depth:

Weather: OVERCAST Barometric Pres.: Wind: LIGHT BREEZE

Air Temp.(^{o}F): 60s

Notes:

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
YORK	TCL VOCS BY 8260	STANDARD
	PRIORITY POLLUTANT METALS	

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

GROUNDWATER SAMPLING FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	KC-MW-05 1019	Sample Time:	14:31	Sample Matrix *(circle)*:	
Well ID:	MW-05	Sample Date:	10/29/2019	***Groundwater***	Soil
Project Name:	KINGSTON CVS	Sample Tech(s):	E. ORLOWSKI	Surface Water	Air
Sample Location:	KINGSTON, NY	Project and Task #:	41103.19	Drinking Water	Other:
		Project Manager:	E. ORLOWSKI		

WELL INFORMATION:

Well Condition: Good.

Lock Type: NONE - FLUSH MOUNT Key #: NA

PURGE DATA:

Measuring Point:	TOC-PVC		***(B)***	Purge Method:		PERISTALTIC - LOW FLOW	
Depth to Bottom:	24.30	Pipe Width	Gal/Foot	Start Date:		10/29/2019	
Depth to Water:	9.21	1.0"	0.041	Start Time:		2:15:00 PM	
Water Column Height: ***(A)***	15.09	1.5"	0.092	Stop Time:		2:30:00 PM	
(depth to bottom - depth to water)		**2.0"**	**0.163**	Purge Rate (gpm):		0.05	
		2.5"	0.255	Elapsed Time (min):		15	
# of Volumes to be Purged: ***(C)***		3.0"	0.367	Well Vol. Purged (#):		0.3	
N/A		4.0"	0.653	Purge Vol. (gal):		0.70	
		6.0"	1.469	Well went dry?	**No**	Yes	
Gal. to be Purged: ***(AxBxC)***		8.0"	2.611	Conditions:	**No Odor**		Odor
N/A					**Clear**	Slightly-Turbid	Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm^c	uS/cm	visual	g/L		mg/L		mV	
0	14:15	9.21	17.1	3272		clear	2.1060	none	4.30	7.23	374.8	
0.23	14:20	10.06	16.8	3195		clear	2.0735	none	3.25	7.03	379.2	
0.47	14:25	10.51	16.9	3110		clear	2.0215	none	3.15	6.98	380.6	
0.70	14:30	10.99	16.8	3050		clear	1.9825	none	3.07	6.96	380.9	

SAMPLE INFORMATION:

Sample Method: PERISTALTIC *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite Sample Depth:

Weather: OVERCAST Barometric Pres.: Wind: LIGHT BREEZE

Air Temp.(^{o}F): 60s

Notes:

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
YORK	TCL VOCS BY 8260	STANDARD
	PRIORITY POLLUTANT METALS	

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

GROUNDWATER SAMPLING FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	KC-MW-01 0620	Sample Time:	12:39	Sample Matrix *(circle)* :	
Well ID:	MW-01	Sample Date:	6/1/2020	***Groundwater***	Soil
Project Name:	KINGSTON CVS	Sample Tech(s):	E. ORLOWSKI	Surface Water	Air
Sample Location:	KINGSTON, NY	Project and Task #:	41103.20	Drinking Water	Other:
		Project Manager:	E. ORLOWSKI		

WELL INFORMATION:

Well Condition: Good.

Lock Type: NONE - FLUSH MOUNT Key #: NA

PURGE DATA:

Measuring Point: TOC-PVC ***(B)***

Depth to Bottom: 26.20

Depth to Water: 15.31

Water Column Height: ***(A)*** 10.89

(depth to bottom - depth to water)

# of Volumes to be Purged: ***(C)*** N/A

Gal. to be Purged: ***(AxBxC)*** N/A

Pipe Width	Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	**0.163**
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method:		PERISTALTIC - LOW FLOW	
Start Date:		6/1/2020	
Start Time:		12:13:00 PM	
Stop Time:		12:38:00 PM	
Purge Rate (gpm):		0.04	
Elapsed Time (min):		25	
Well Vol. Purged (#):		0.6	
Purge Vol. (gal):		0.98	
Well went dry?	**No**	Yes	
Conditions:	**No Odor**		Odor
	Clear	**Slightly-Turbid**	Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm[c]	uS/cm	visual	g/L		mg/L		mV	
0.0	12:13	15.31	14.0	2856	2244	turbid	1.8590	none	11.19	6.29	421.2	
0.19	12:18	16.36	13.4	2944	2293	moderate	1.9110	none	0.54	6.44	398.6	
0.39	12:23	17.10	13.0	2959	2282	slight	1.9240	none	0.37	6.48	377.7	
0.58	12:28	18.11	12.9	2959	2271	slight	1.9240	none	0.28	6.52	358.9	
0.78	12:33	18.59	12.8	2951	2265	slight	1.9175	none	0.27	6.51	347.5	
0.98	12:38	20.49	12.7	2950	2256	slight	1.9175	none	0.26	6.52	332.7	

SAMPLE INFORMATION:

Sample Method: PERISTALTIC *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite Sample Depth:

Weather: MOSTLY SUNNY Barometric Pres.: Wind: BREEZY

Air Temp.(^{o}F): 60s

Notes: FIELD DUPLICATE COLLECTED HERE (KC-MW-DUP 0620)

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
YORK	TCL VOCS BY 8260	STANDARD
	PRIORITY POLLUTANT METALS	
	DISSOLVED P. P. METALS	

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

GROUNDWATER SAMPLING FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	KC-MW-02 0620	Sample Time:	11:20	Sample Matrix *(circle)*:	
Well ID:	MW-02	Sample Date:	6/1/2020	***Groundwater***	Soil
Project Name:	KINGSTON CVS	Sample Tech(s):	E. ORLOWSKI	Surface Water	Air
Sample Location:	KINGSTON, NY	Project and Task #:	41103.20	Drinking Water	Other:
		Project Manager:	E. ORLOWSKI		

WELL INFORMATION:

Well Condition: Good.

Lock Type: NONE - FLUSH MOUNT Key #: NA

PURGE DATA:

Measuring Point: TOC-PVC

Depth to Bottom: 24.50

Depth to Water: 15.85

Water Column Height: ***(A)*** 8.65

(depth to bottom - depth to water)

# of Volumes to be Purged: ***(C)*** N/A

Gal. to be Purged: ***(AxBxC)*** N/A

Pipe Width	Gal/Foot ***(B)***
1.0"	0.041
1.5"	0.092
2.0"	**0.163**
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: PERISTALTIC - LOW FLOW

Start Date: 6/1/2020

Start Time: 10:59:00 AM

Stop Time: 11:19:00 AM

Purge Rate (gpm): 0.04

Elapsed Time (min): 20

Well Vol. Purged (#): 0.6

Purge Vol. (gal): 0.87

Well went dry? **No** Yes

Conditions: **No Odor** Odor

Clear Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm[c]	uS/cm	visual	g/L		mg/L		mV	
0	10:59	15.85	13.4	2461	1911	clear	1.5925	none	2.57	7.00	388.1	
0.22	11:04	16.83	12.7	2432	1964	clear	1.5860	none	1.30	6.94	395.2	
0.43	11:09	17.60	12.6	2444	1859	clear	1.5925	none	1.05	6.49	396.5	
0.65	11:14	18.36	12.0	2455	1846	clear	1.5925	none	0.96	6.43	395.7	
0.87	11:19	19.97	12.0	2464	1853	clear	1.6055	none	0.87	6.41	394.4	

SAMPLE INFORMATION:

Sample Method: PERISTALTIC *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite

Sample Depth:

Weather: MOSTLY SUNNY

Barometric Pres.:

Wind: BREEZY

Air Temp.(^{o}F): 60s

Notes:

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
YORK	TCL VOCS BY 8260	STANDARD
	PRIORITY POLLUTANT METALS	

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

GROUNDWATER SAMPLING FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	KC-MW-05 0620	Sample Time:	10:30	Sample Matrix *(circle)*:	
Well ID:	MW-05	Sample Date:	6/1/2020	***Groundwater***	Soil
Project Name:	KINGSTON CVS	Sample Tech(s):	E. ORLOWSKI	Surface Water	Air
Sample Location:	KINGSTON, NY	Project and Task #:	41103.20	Drinking Water	Other:
		Project Manager:	E. ORLOWSKI		

WELL INFORMATION:

Well Condition: Good.

Lock Type: NONE - FLUSH MOUNT Key #: NA

PURGE DATA:

Measuring Point:	TOC-PVC		***(B)***	Purge Method:		PERISTALTIC - LOW FLOW	
Depth to Bottom:	24.30	Pipe Width	Gal/Foot	Start Date:		6/1/2020	
Depth to Water:	9.32	1.0"	0.041	Start Time:		10:14:00 AM	
Water Column Height: ***(A)***	14.98	1.5"	0.092	Stop Time:		10:29:00 AM	
(depth to bottom - depth to water)		**2.0"**	**0.163**	Purge Rate (gpm):		0.06	
		2.5"	0.255	Elapsed Time (min):		15	
# of Volumes to be Purged: ***(C)***		3.0"	0.367	Well Vol. Purged (#):		0.3	
N/A		4.0"	0.653	Purge Vol. (gal):		0.85	
		6.0"	1.469	Well went dry?	**No**	Yes	
Gal. to be Purged: ***(AxBxC)***		8.0"	2.611	Conditions:	**No Odor**		Odor
N/A					**Clear**	Slightly-Turbid	Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm[c]	uS/cm	visual	g/L		mg/L		mV	
0	10:14	9.32	13.6	3722	2910	clear	2.4310	none	5.05	7.29	318.2	
0.28	10:19	10.32	13.4	3825	2980	clear	2.4895	none	3.65	6.81	352.0	
0.56	10:24	11.09	13.5	3833	2989	clear	2.4960	none	3.58	6.77	358.7	
0.85	10:29	11.98	13.5	3835	2990	clear	2.4960	none	3.45	6.76	362.7	

SAMPLE INFORMATION:

Sample Method: PERISTALTIC *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite Sample Depth:

Weather: MOSTLY SUNNY Barometric Pres.: Wind: BREEZY

Air Temp.(^{o}F): 60s

Notes:

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
YORK	TCL VOCS BY 8260	STANDARD
	PRIORITY POLLUTANT METALS	

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

GROUNDWATER SAMPLING FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	KC-MW-07 0620	Sample Time:	14:41	Sample Matrix *(circle)* :	
Well ID:	MW-07	Sample Date:	6/1/2020	***Groundwater***	Soil
Project Name:	KINGSTON CVS	Sample Tech(s):	E. ORLOWSKI	Surface Water	Air
Sample Location:	KINGSTON, NY	Project and Task #:	41103.20	Drinking Water	Other:
		Project Manager:	E. ORLOWSKI		

WELL INFORMATION:

Well Condition: Good.

Lock Type: NONE - FLUSH MOUNT Key #: NA

PURGE DATA:

Measuring Point: TOC-PVC ***(B)***

Depth to Bottom: 27.60

Depth to Water: 10.50

Water Column Height: ***(A)*** 17.10

(depth to bottom - depth to water)

# of Volumes to be Purged: ***(C)*** N/A

Gal. to be Purged: ***(AxBxC)*** N/A

Pipe Width	Gal/Foot
1.0"	**0.041**
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: PERISTALTIC - LOW FLOW

Start Date: 6/1/2020

Start Time: 2:25:00 PM

Stop Time: 2:40:00 PM

Purge Rate (gpm): 0.05

Elapsed Time (min): 15

Well Vol. Purged (#): 1.0

Purge Vol. (gal): 0.72

Well went dry? **No** Yes

Conditions: **No Odor** Odor / **Clear** Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged	Date & Time	Depth to Water	Temp	SpCond	Cond.	Turbidity	TDS	Odor	DO	pH	ORP	
gal		ft	deg C	uS/cm^c	uS/cm	visual	g/L		mg/L		mV	
0.0	14:25	10.50	13.3	3178	2479	slight	2.0670	none	0.97	6.76	376.8	
0.24	14:30	10.73	13.3	3183	2467	slight	2.0670	none	0.58	6.50	374.0	
0.48	14:35	10.73	12.9	3206	2481	slight	2.0865	none	0.65	6.45	370.7	
0.72	14:40	10.74	13.1	3219	2480	clear	2.0930	none	0.66	6.43	367.2	

SAMPLE INFORMATION:

Sample Method: PERISTALTIC *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: ***Grab*** Composite

Sample Depth:

Weather: MOSTLY SUNNY

Barometric Pres.:

Wind: BREEZY

Air Temp.(^{o}F): 60s

Notes:

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
YORK	TCL VOCS BY 8260	STANDARD

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

SITE INSPECTION REPORT

Person performing Inspection: Eric J. Orlowski, P.G. **Date:** 10/29/2019 **Weather:** Overcast, 60 deg. F, breezy

Signature:  **Page:** 1 of 2

Chestlist Items:	Acceptable	Not Accpetable	Remarks/Locations
SOIL COVER SYSTEM INSPECTION			
There is no evidence of erosion of cover soils/materials from Site surface.	X		
There is no evidence of depressions in cover materials.	X		
There is no evidence of significant cracks. in cover materials.	X		
There is no evidence of exposed or damaged demarcation barrier.	X		
There is no evidence of vapors or odors emanating from the Site.	X		
VEGETATIVE INSPECTION			
Vegetation is well established over greenspace areas.	X		
There is no evidence of stressed vegetation.	X		
There is no evidence of bare or thin vegetative cover.	X		
There is no evidence of overgrowth or areas that need to be mowed.	X		
There is no evidence of recent areas of excavation or disturbed areas.	X		
VECTOR INSPECTION			
No vectors or vector activity (e.g. tracks, droppings, dens, etc.) were observed.	X		
There was no evidence of damage to the soil cover system due to the vector activity. soil cover system due to vector activity.	X		
DRAINAGE SYSTEM INSPECTION			
There is no evidence of erosion around drainage structures.	X		
There is no evidence of settlement of drainage structures	X		
Manhole covers present and in good condition.	X		
There is no evidence of siltation, debris, or other restrictions in the manholes.	X		
There are no exposed or damaged weep hole extension along retaining wall.	X		

SITE INSPECTION REPORT

Person performing Inspection: Eric J. Orlowski, P.G. **Date:** 10/29/2019 **Weather:** Overcast, 60 deg F, breezy
Signature: _____ **Page:** 2 of 2

MONITORING WELL INSPECTION

Chestlist Items:	Acceptable	Not Accpetable	Remarks/Locations
The monitoring wells are in generally good condition.	☒	☐	
Well Caps are installed on the wells.	☒	☐	
Locks present and secured.	☐ N/A	☐	All wells finished flush-mount with bolt-down manholes. No locks in use.

SITE ACCESSIBILITY INSPECTION

Site accessible and passable.	☒	☐	

INSTITUTIONAL CONTROL INSPECTION

The Site continues to be utilized for commerical or restricted residential uses only.	☒	☐	
There is no evidence of groundwater extraction and/or use on Site. drainage structures	☒	☐	

ADDITIONAL NOTES & OBSERVATIONS

SITE INSPECTION REPORT

Person performing Inspection: Eric J. Orlowski, P.G. **Date:** 6/1/2020 **Weather:** Mostly sunny, 60 deg. F, breezy

Signature: _____ **Page:** 1 of 2

SOIL COVER SYSTEM INSPECTION

Chestlist Items:	Acceptable	Not Accpetable	Remarks/Locations
There is no evidence of erosion of cover soils/materials from Site surface.	X		
There is no evidence of depressions in cover materials.	X		
There is no evidence of significant cracks. in cover materials.	X		
There is no evidence of exposed or damaged demarcation barrier.	X		
There is no evidence of vapors or odors emanating from the Site.	X		

VEGETATIVE INSPECTION

Vegetation is well established over greenspace areas.	X		
There is no evidence of stressed vegetation.	X		
There is no evidence of bare or thin vegetative cover.	X		
There is no evidence of overgrowth or areas that need to be mowed.	X		
There is no evidence of recent areas of excavation or disturbed areas.	X		

VECTOR INSPECTION

No vectors or vector activity (e.g. tracks, droppings, dens, etc.) were observed.	X		
There was no evidence of damage to the soil cover system due to the vector activity. soil cover system due to vector activity.	X		

DRAINAGE SYSTEM INSPECTION

There is no evidence of erosion around drainage structures.	X		
There is no evidence of settlement of drainage structures	X		
Manhole covers present and in good condition.	X		
There is no evidence of siltation, debris, or other restrictions in the manholes.	X		
There are no exposed or damaged weep hole extension along retaining wall.	X		

SITE INSPECTION REPORT

Person performing Inspection: Eric J. Orlowski, P.G. **Date:** 6/1/2020 **Weather:** Mostly sunny, 60 deg F, breezy
Signature: _____ **Page:** 2 of 2

MONITORING WELL INSPECTION

Chestlist Items:	Acceptable	Not Accpetable	Remarks/Locations
The monitoring wells are in generally good condition.	☒	☐	Area around MW-1 rutted from delivery trucks. Roadbox covered with soil but undamaged.
Well Caps are installed on the wells.	☒	☐	
Locks present and secured.	☐ N/A	☐	All wells finished flush-mount with bolt-down manholes. No locks in use.

SITE ACCESSIBILITY INSPECTION

Site accessible and passable.	☒	☐	

INSTITUTIONAL CONTROL INSPECTION

The Site continues to be utilized for commerical or restricted residential uses only.	☒	☐	
There is no evidence of groundwater extraction and/or use on Site. drainage structures	☒	☐	

ADDITIONAL NOTES & OBSERVATIONS

1) The area around MW-1 was heavily rutted due to delivery truck traffic. The MW-1 roadbox was buried under approx. 2-3" of soil, but was not damaged.

2) Three 4"-diameter concrete-filled Schedule 40 PVC Bollards were installed at edge of pavement in this area to protect the wellhead against future traffic.

3) Otherwise, the site and site features are in acceptable condition.

Kingston CVS Site
SSDS Inspection Worksheet

Date: 10/29/2019	**Inspector:** Eric Orlowski, PG		
	Yes	**No**	**General Comments/Notes**
Is the system running normally?	X		
Is the indicator light functioning?	X		
Is the electrical/ control panel secure?	X		
Does the inlet pipe (copper) feel cool/cold to the touch?	X		
Does the outlet pipe (copper) feel warm but not hot?	X		
Is the stack clear and evenly discharging air?	X		
Is there any water being exhausted from the stack?		X	
Does the effluent air have any noticeable odor?		X	
Does the blower feel warm but not hot?	X		
Does the blower sound as if it's running smoothly?	X		

System Readings		
Time	Pressure (in WC)	PID (ppm)
1825	0.24	0.0

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Kingston CVS Site
SSDS Inspection Worksheet

Date: 6/1/2020	**Inspector:** Eric J. Orlowski, PG		
	Yes	**No**	**General Comments/Notes**
Is the system running normally?	X		
Is the indicator light functioning?	X		
Is the electrical/ control panel secure?	X		
Does the inlet pipe (copper) feel cool/cold to the touch?	X		
Does the outlet pipe (copper) feel warm but not hot?	X		
Is the stack clear and evenly discharging air?	X		
Is there any water being exhausted from the stack?		X	
Does the effluent air have any noticeable odor?		X	
Does the blower feel warm but not hot?	X		
Does the blower sound as if it's running smoothly?	X		

System Readings		
Time	Pressure (in WC)	PID (ppm)
1550	0.25	0.0

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Appendix B:
Engineering Control/ Institutional Control Certification Forms

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C356035

Site Name Utility Platers, Inc./Kingston Diagnostics

Site Address: 416 Washington Avenue/167 Schwenck Drive Zip Code: 12401
City/Town: Kingston
County: Ulster
Site Acreage: 1.730

Reporting Period: July 01, 2019 to July 01, 2020

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C356035 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
48.314-1-11.1	Woodhaven National Management LLC	Soil Management Plan Monitoring Plan O&M Plan IC/EC Plan Landuse Restriction Site Management Plan Ground Water Use Restriction

(1) The Controlled Property may be used for: "Restricted-residential use," "Commercial use" and/or "Industrial use", as described within 6 NYCRR Part 375-1.8(g)(2)(ii), (iii) and (iv).
(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);
(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP.
(4) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
(5) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;
(6) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;
(7) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP.
(8) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP.
(9) Access to the site must be provided to agents, employees or other representatives of the state of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
48.314-1-11.1	Cover System Vapor Mitigation

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative — Date

IC CERTIFICATIONS
SITE NO. C356035

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Gedalia Oberlander at P.O. Box 367, Monsey NY 10952,
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

7/16/2020
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I George A. Cronk, P.E. (print name) at The Chazen Companies 21 Fox Street, Poughkeepsie, NY 12601 (print business address),

am certifying as a Professional Engineer for the Remedial Party (Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
		7/31/2020

Appendix C:
Laboratory Data Reports (Digital File)

Table of Contents for York SDG 19J1295

Technical Report

prepared for:

Chazen Environmental Services (Poughkeepsie)
21 Fox Street
Poughkeepsie NY, 12601
Attention: Eric Orlowski

Report Date: 11/08/2019
Client Project ID: 41103.00 KINGSTON CVS
York Project (SDG) No.: 19J1295

Report Date: 11/08/2019
Client Project ID: 41103.00 KINGSTON CVS
York Project (SDG) No.: 19J1295

Chazen Environmental Services (Poughkeepsie)
21 Fox Street
Poughkeepsie NY, 12601
Attention: Eric Orlowski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 30, 2019 and listed below. The project was identified as your project: **41103.00 KINGSTON CVS**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
19J1295-01	KC-MW-01 1019	Water	10/29/2019	10/30/2019
19J1295-02	KC-MW-02 1019	Water	10/29/2019	10/30/2019
19J1295-03	KC-MW-05 1019	Water	10/29/2019	10/30/2019
19J1295-04	KC-MW-DUP 1019	Water	10/29/2019	10/30/2019
19J1295-05	KC-TRIP BLANK 1019	Water	10/29/2019	10/30/2019

General Notes for York Project (SDG) No.: 19J1295

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 11/08/2019

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: KC-MW-01 1019 **York Sample ID:** 19J1295-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 5:45 pm	10/30/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	**1,1,2-Trichloroethane**	**0.47**	J	ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	**1,1-Dichloroethane**	**18**		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	**1,1-Dichloroethylene**	**91**		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-01 1019 **York Sample ID:** 19J1295-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 5:45 pm	10/30/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**3.2**	CCV-E	ug/L	1.0	2.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	**Benzene**	**0.88**		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	**Carbon disulfide**	**0.24**	J	ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	**Chloromethane**	**0.29**	J	ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**32000**		ug/L	200	500	1000	EPA 8260C	10/30/2019 06:14	11/04/2019 12:32	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-01 1019 **York Sample ID:** 19J1295-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 5:45 pm	10/30/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	**Toluene**	**1.5**		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	**trans-1,2-Dichloroethylene**	**890**		ug/L	20	50	100	EPA 8260C	10/30/2019 06:14	11/04/2019 11:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**26000**		ug/L	200	500	1000	EPA 8260C	10/30/2019 06:14	11/04/2019 12:32	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	**Vinyl Chloride**	**4600**		ug/L	20	50	100	EPA 8260C	10/30/2019 06:14	11/04/2019 11:10	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	10/30/2019 06:14	11/01/2019 03:52	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*99.0 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.3 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*96.2 %*	*79-122*

Sample Information

Client Sample ID: KC-MW-01 1019 **York Sample ID:** 19J1295-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 5:45 pm	10/30/2019

Silver by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	10/31/2019 12:02	11/05/2019 14:48	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Silver, Dissolved by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	10/31/2019 15:20	11/05/2019 21:14	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, Priority Pollutant-Low Level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	**Antimony**	**1.14**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 11:55	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**45.2**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 11:55	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	**Beryllium**	**0.656**		ug/L	0.333	1	EPA 6020B	10/31/2019 12:05	11/05/2019 11:55	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**11.6**		ug/L	0.556	1	EPA 6020B	10/31/2019 12:05	11/05/2019 11:55	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**42.5**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 11:55	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**113**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 11:55	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**61.3**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 11:55	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**373**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 11:55	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**112**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 11:55	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 11:55	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**196**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 11:55	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, Priority Pollutants Dissolved-Low Level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	**Antimony**	**1.93**		ug/L	1.11	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:47	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**25.5**		ug/L	1.11	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:47	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-01 1019 **York Sample ID:** 19J1295-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 5:45 pm	10/30/2019

Metals, Priority Pollutants Dissolved-Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:47	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:47	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		ug/L	1.11	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:47	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**3.69**		ug/L	1.11	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:47	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		ug/L	1.11	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:47	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**338**		ug/L	1.11	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:47	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**5.93**		ug/L	1.11	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:47	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:47	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**12.7**		ug/L	1.11	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:47	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473	11/04/2019 10:35	11/04/2019 11:20	SY
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473	11/06/2019 11:11	11/06/2019 11:34	SY
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-02 1019 **York Sample ID:** 19J1295-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 3:19 pm	10/30/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: KC-MW-02 1019 **York Sample ID:** 19J1295-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 3:19 pm	10/30/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-02 1019 **York Sample ID:** 19J1295-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 3:19 pm	10/30/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**4.0**	CCV-E	ug/L	1.0	2.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**34**		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	**Methyl acetate**	**0.39**	J	ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-02 1019 **York Sample ID:** 19J1295-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 3:19 pm	10/30/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	**Tetrachloroethylene**	**0.23**	QL-02, J	ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	**trans-1,2-Dichloroethylene**	**2.3**		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**40**		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	**Vinyl Chloride**	**9.6**		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:19	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*98.7 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.0 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*93.2 %*	*79-122*

Sample Information

Client Sample ID: KC-MW-02 1019 **York Sample ID:** 19J1295-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 3:19 pm	10/30/2019

Silver by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	10/31/2019 12:02	11/05/2019 14:55	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, Priority Pollutant-Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:00	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:00	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:00	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**1.04**		ug/L	0.556	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:00	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**1.59**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:00	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**6.87**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:00	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:00	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**42.0**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:00	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**3.21**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:00	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:00	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**19.5**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:00	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473	11/04/2019 10:35	11/04/2019 11:31	SY
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-05 1019 **York Sample ID:** 19J1295-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 2:31 pm	10/30/2019

Sample Information

Client Sample ID: KC-MW-05 1019 **York Sample ID:** 19J1295-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 2:31 pm	10/30/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	**1,1-Dichloroethane**	**0.49**	J	ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	**1,1-Dichloroethylene**	**0.50**		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-05 1019 **York Sample ID:** 19J1295-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 2:31 pm	10/30/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**3.8**	CCV-E	ug/L	1.0	2.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	**Chloromethane**	**0.29**	J	ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**41**		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-05 1019 **York Sample ID:** 19J1295-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 2:31 pm	10/30/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	**tert-Butyl alcohol (TBA)**	**15**		ug/L	0.50	1.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	**trans-1,2-Dichloroethylene**	**1.2**		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**67**		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	**Vinyl Chloride**	**2.9**		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	10/30/2019 06:14	11/01/2019 04:45	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.9 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*95.6 %*	*79-122*

Sample Information

Client Sample ID: KC-MW-05 1019 **York Sample ID:** 19J1295-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 2:31 pm	10/30/2019

Silver by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	10/31/2019 12:02	11/05/2019 15:03	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, Priority Pollutant-Low Level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:05	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**2.90**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:05	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:05	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:05	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:05	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**1.86**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:05	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:05	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**3.52**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:05	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**3.29**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:05	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:05	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**8.32**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:05	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473	11/04/2019 10:35	11/04/2019 11:42	SY
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-DUP 1019 **York Sample ID:** 19J1295-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 12:00 am	10/30/2019

Sample Information

Client Sample ID: KC-MW-DUP 1019 **York Sample ID:** 19J1295-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 12:00 am	10/30/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	**1,1,2-Trichloroethane**	**0.53**		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	**1,1-Dichloroethane**	**17**		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	**1,1-Dichloroethylene**	**92**		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-DUP 1019 **York Sample ID:** 19J1295-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 12:00 am	10/30/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	**Benzene**	**0.89**		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	**Carbon disulfide**	**0.24**	J	ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	**Chloromethane**	**0.34**	J	ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**35000**		ug/L	200	500	1000	EPA 8260C	10/30/2019 06:14	11/04/2019 12:59	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-DUP 1019 **York Sample ID:** 19J1295-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 12:00 am	10/30/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	**tert-Butyl alcohol (TBA)**	**7.3**		ug/L	0.50	1.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	**Tetrachloroethylene**	**0.23**	QL-02, J	ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	**Toluene**	**1.4**		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	**trans-1,2-Dichloroethylene**	**810**		ug/L	20	50	100	EPA 8260C	10/30/2019 06:14	11/04/2019 11:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**28000**		ug/L	200	500	1000	EPA 8260C	10/30/2019 06:14	11/04/2019 12:59	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	**Vinyl Chloride**	**4000**		ug/L	20	50	100	EPA 8260C	10/30/2019 06:14	11/04/2019 11:37	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	10/30/2019 06:14	11/01/2019 05:11	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*99.6 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.9 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*79-122*

Sample Information

Client Sample ID: KC-MW-DUP 1019 **York Sample ID:** 19J1295-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 12:00 am	10/30/2019

Silver by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	10/31/2019 12:02	11/05/2019 15:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Silver, Dissolved by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	10/31/2019 15:20	11/05/2019 21:22	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, Priority Pollutant-Low Level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	**Antimony**	**2.55**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:11	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**448**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:11	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	**Beryllium**	**1.13**		ug/L	0.333	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:11	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**302**		ug/L	0.556	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:11	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**1510**		ug/L	11.1	10	EPA 6020B	10/31/2019 12:05	11/06/2019 12:29	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**939**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:11	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**251**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:11	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**2670**		ug/L	11.1	10	EPA 6020B	10/31/2019 12:05	11/06/2019 12:29	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**339**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:11	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	**Thallium**	**2.74**		ug/L	1.11	1	EPA 6020B	10/31/2019 12:05	11/05/2019 12:11	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**5500**		ug/L	11.1	10	EPA 6020B	10/31/2019 12:05	11/06/2019 12:29	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, Priority Pollutants Dissolved-Low Level

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	**Antimony**	**1.88**		ug/L	1.11	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:53	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**23.7**		ug/L	1.11	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:53	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-DUP 1019 **York Sample ID:** 19J1295-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 12:00 am	10/30/2019

Metals, Priority Pollutants Dissolved-Low Level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:53	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:53	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		ug/L	1.11	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:53	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		ug/L	1.11	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:53	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		ug/L	1.11	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:53	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**315**		ug/L	1.11	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:53	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**5.72**		ug/L	1.11	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:53	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:53	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**13.9**		ug/L	1.11	1	EPA 6020B	11/05/2019 14:09	11/06/2019 18:53	BML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473	11/04/2019 10:35	11/04/2019 11:53	SY
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473	11/06/2019 11:11	11/06/2019 11:45	SY
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-TRIP BLANK 1019 **York Sample ID:** 19J1295-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 10:00 am	10/30/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: KC-TRIP BLANK 1019 **York Sample ID:** 19J1295-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 10:00 am	10/30/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-TRIP BLANK 1019 **York Sample ID:** 19J1295-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 10:00 am	10/30/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-TRIP BLANK 1019 **York Sample ID:** 19J1295-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19J1295	41103.00 KINGSTON CVS	Water	October 29, 2019 10:00 am	10/30/2019

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	10/30/2019 06:14	11/01/2019 01:15	LLJ
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*98.7 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.6 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*96.0 %*	*79-122*

Case Narrative

Client: Chazen Environmental Services (Poughkeepsie)
Client Project ID: 41103.00 KINGSTON CVS
Prepared for: Eric Orlowski

Introduction

This Case Narrative applies only to the samples submitted to our laboratory on **10/30/2019 15:23** as detailed on the chain-of-custody form.

The 5 sample(s) were received intact in a custody-sealed cooler unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (≤ 6°C) and documented as:

Cooler	Temp C°
Default Cooler	**1.0**

Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

All preparation and analyses were conducted according to the appropriate EPA methods detailed in the report.

Sample and Analysis Qualifiers

Laboratory ID	Sample Name	Matrix
19J1295-01	KC-MW-01 1019	Water
19J1295-02	KC-MW-02 1019	Water
19J1295-03	KC-MW-05 1019	Water
19J1295-04	KC-MW-DUP 1019	Water
19J1295-05	KC-TRIP BLANK 1019	Water

QC Sample Non-Conformances

Any QC sample non-conformances (CCV, LCS, DUP, MS) are detailed in the data package and in the attached tables.

No other problems were encountered during analysis.

York Project/SDG no.: 19J1295 Statement

We certify that these data are in compliance with SOP requirements both technically and for completeness for other than the conditions stated above. Release of the data contained in the hard copy report and any electronic deliverables has been authorized by the Laboratory Manager as verified by the signature on this laboratory report.

Approved by: *Ben Gulizia*
Laboratory Director

Date: 11/8/2019

York Analytical Laboratories, Inc.

Formulae Used for Sample Calculations

VOLATILE ORGANICS

1. Volatiles in Air-ppbv

Cx (ppbv) = Compound concentration, ppbv (parts per billion by volume)

$$Cx = \frac{(Ax)(Cis)(DF)}{(Ais)(RRF)}$$

2. Volatiles in Air-ug/m³

Cx (ug/m³)= Compound concentration in ug/m³

$$Cx\ (ug/m^3) = \frac{(ppbv \times Molecular\ wt.)}{(24.040)}$$

3. Volatile Organics (water and soil), ug/L or ug/kg

Soils/Waters

$$Cx = \frac{(Ax)(IS)(DF)}{(Ais)(RRF)(V)(\%\ solids)}$$

Medium Level Soils

$$Cx = \frac{(Ax)(IS)(VT)(1000)(DF)}{(Ais)(RRF)(VA)(V)(\%\ solids)}$$

4. Semi-Volatiles (waters and soils)

$$Cx = \frac{(Ax)(IS)(VE)(DF)}{(Ais)(RRF)(Volume\ injected,\ uL)(V)(\%\ solids)}$$

5. Pesticides/PCB (waters and soils), DRO, CTETPH

$$Cx = \frac{(Ax)(VE)(DF)}{(CF)(Volume\ injected,\ uL)(V)(\%\ solids)}$$

WHERE:

Cx = concentration of analyte as ug/L or ug/kg
Ax = Area of the characteristic ion for the compound to be measured, counts.
Ais = Area of the characteristic ion for the specific internal standard, counts.
IS = Concentration of the internal standard spiking mixture, ng
RRF = Mean relative response factor from the initial calibration.
DF = Dilution factor calculated as described in section 2. If no dilution is performed, DF= 1
V = Volume for liquids in mL, weight for soils/solids in grams.
VA = volume of MeOH aliquot for medium level soils

VE = final volume of concentrated extract
VT = volume of MeOH for volatiles medium level soils
CF = calibration factor for external calibration used in GC pest/pcb
Cis = Concentration of the internal standard spiking mixture, ppbv

Case Narrative Non-Conformance Summary

Laboratory:	York Analytical Laboratories, Inc.	Client:	Chazen Environmental Services (Poughkeepsie)
Project:	41103.00 KINGSTON CVS	Lab Project No:	19J1295
Laboratory Sample ID(s):	19J1295-01 - 19J1295-05	Sampling Date(s):	10/29/2019 - 10/29/2019
Review Date(s):	11/08/2019 - 11/08/2019	Laboratory Reviewer(s):	KMB

QC Sample Nonconformances

Batch ID: BJ91821 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BJ91821-BS1	Acrolein - 107-02-8	20 ug/L	LCS	199	10-153	High Bias				
BJ91821-BS1	Bromomethane - 74-83-9	2.3 ug/L	LCS	23.2	43-168	Low Bias				
BJ91821-BSD1	1,2,3-Trichlorobenzene - 87-61-6	7.5 ug/L	LCS Dup	74.7	76-136	Low Bias	13.7	30		
BJ91821-BSD1	Acrolein - 107-02-8	18 ug/L	LCS Dup	178	10-153	High Bias	11.5	30		
BJ91821-BSD1	Bromomethane - 74-83-9	2.3 ug/L	LCS Dup	22.7	43-168	Low Bias	2.18	30		
BJ91821-BSD1	Dichlorodifluoromethane - 75-71-8	12 ug/L	LCS Dup	115	44-144		34.5	30	Non-dir.	
BJ91821-BSD1	Methylcyclohexane - 108-87-2	6.4 ug/L	LCS Dup	64.2	72-143	Low Bias	15.3	30		
BJ91821-BSD1	tert-Butylbenzene - 98-06-6	6.9 ug/L	LCS Dup	69.0	77-138	Low Bias	14.4	30		
BJ91821-BSD1	Tetrachloroethylene - 127-18-4	7.9 ug/L	LCS Dup	79.2	82-131	Low Bias	15.9	30		

Batch ID: BJ91944 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BJ91944-BLK1	2-Butanone - 78-93-3	0.66 ug/L	Blank		-					
BJ91944-BS1	1,2,3-Trichlorobenzene - 87-61-6	7.1 ug/L	LCS	71.2	76-136	Low Bias				
BJ91944-BS1	1,2,4-Trichlorobenzene - 120-82-1	7.0 ug/L	LCS	70.2	76-137	Low Bias				
BJ91944-BS1	Bromochloromethane - 74-97-5	13 ug/L	LCS	131	77-128	High Bias				
BJ91944-BS1	Cyclohexane - 110-82-7	5.4 ug/L	LCS	54.5	63-149	Low Bias				
BJ91944-BS1	Dichlorodifluoromethane - 75-71-8	14 ug/L	LCS	145	44-144	High Bias				
BJ91944-BS1	Hexachlorobutadiene - 87-68-3	6.5 ug/L	LCS	64.7	67-146	Low Bias				
BJ91944-BSD1	Carbon disulfide - 75-15-0	11 ug/L	LCS Dup	115	68-146		32.0	30	Non-dir.	
BJ91944-BSD1	Cyclohexane - 110-82-7	5.7 ug/L	LCS Dup	56.7	63-149	Low Bias	3.96	30		
BJ91944-BSD1	Dichlorodifluoromethane - 75-71-8	15 ug/L	LCS Dup	149	44-144	High Bias	3.06	30		
BJ91944-BSD1	Methyl acetate - 79-20-9	11 ug/L	LCS Dup	114	51-139		32.3	30	Non-dir.	
BJ91944-BSD1	Methylene chloride - 75-09-2	12 ug/L	LCS Dup	121	55-137		32.7	30	Non-dir.	

Batch ID: Y9J1113 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y9J1113-SCV1	1,2,3-Trichlorobenzene - 87-61-6	13.8 ug/L	Secondary Cal Check	138	70-130	High Bias				
Y9J1113-SCV1	4-Methyl-2-pentanone - 108-10-1	6.74 ug/L	Secondary Cal Check	67.4	70-130	Low Bias				
Y9J1113-SCV1	Bromomethane - 74-83-9	14.4 ug/L	Secondary Cal Check	144	70-130	High Bias				
Y9J1113-SCV1	Dichlorodifluoromethane - 75-71-8	15.6 ug/L	Secondary Cal Check	156	70-130	High Bias				
Y9J1113-SCV1	Hexachlorobutadiene - 87-68-3	13.0 ug/L	Secondary Cal Check	130	70-130	High Bias				

Batch ID: Y9J1617 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y9J1617-SCV1	Acrolein - 107-02-8	5.36 ug/L	Secondary Cal Check	53.6	70-130	Low Bias				
Y9J1617-SCV1	Cyclohexane - 110-82-7	4.51 ug/L	Secondary Cal Check	45.1	70-130	Low Bias				

Batch ID: Y9K0408 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y9K0408-CCV1	1,2,3-Trichlorobenzene - 87-61-6	6.54 ug/L	Calibration Check	65.4	80-120	Low Bias				
Y9K0408-CCV1	2-Butanone - 78-93-3	14.5 ug/L	Calibration Check	145	80-120	High Bias				
Y9K0408-CCV1	2-Hexanone - 591-78-6	12.1 ug/L	Calibration Check	121	80-120	High Bias				
Y9K0408-CCV1	Acetone - 67-64-1	16.8 ug/L	Calibration Check	168	80-120	High Bias				
Y9K0408-CCV1	Bromomethane - 74-83-9	1.26 ug/L	Calibration Check	12.6	80-120	Low Bias				
Y9K0408-CCV1	Dichlorodifluoromethane - 75-71-8	12.0 ug/L	Calibration Check	120	80-120	High Bias				
Y9K0408-CCV1	Methylcyclohexane - 108-87-2	7.38 ug/L	Calibration Check	73.8	80-120	Low Bias				

Batch ID: Y9K0412 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y9K0412-CCV1	1,2,3-Trichlorobenzene - 87-61-6	5.49 ug/L	Calibration Check	54.9	80-120	Low Bias				
Y9K0412-CCV1	1,2,4-Trichlorobenzene - 120-82-1	6.75 ug/L	Calibration Check	67.5	80-120	Low Bias				
Y9K0412-CCV1	1,4-Dioxane - 123-91-1	102 ug/L	Calibration Check	50.8	80-120	Low Bias				
Y9K0412-CCV1	Acrolein - 107-02-8	4.95 ug/L	Calibration Check	49.5	80-120	Low Bias				
Y9K0412-CCV1	Bromochloromethane - 74-97-5	12.1 ug/L	Calibration Check	121	80-120	High Bias				
Y9K0412-CCV1	Bromomethane - 74-83-9	7.37 ug/L	Calibration Check	73.7	80-120	Low Bias				
Y9K0412-CCV1	Carbon tetrachloride - 56-23-5	12.1 ug/L	Calibration Check	121	80-120	High Bias				
Y9K0412-CCV1	Chloroethane - 75-00-3	7.68 ug/L	Calibration Check	76.8	80-120	Low Bias				
Y9K0412-CCV1	Chloromethane - 74-87-3	5.12 ug/L	Calibration Check	51.2	80-120	Low Bias				
Y9K0412-CCV1	Cyclohexane - 110-82-7	12.2 ug/L	Calibration Check	122	80-120	High Bias				
Y9K0412-CCV1	Hexachlorobutadiene - 87-68-3	6.47 ug/L	Calibration Check	64.7	80-120	Low Bias				
Y9K0412-CCV1	Methyl acetate - 79-20-9	13.0 ug/L	Calibration Check	130	80-120	High Bias				

Batch ID: BK90199 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BK90199-BS1	Zinc - 7440-66-6	36.5 ug/L	LCS	73.1	80-120	Low Bias				

Batch ID: Y9K0534 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y9K0534-CCV4	Beryllium - 7440-41-7	43.5 ug/L	Calibration Check	86.9	90-110	Low Bias				
Y9K0534-CRL1	Selenium - 7782-49-2	2.39 ug/L	Instrument RL Check	239	0-200	High Bias				
Y9K0534-CRL1	Zinc - 7440-66-6	2.80 ug/L	Instrument RL Check	280	75-125	High Bias				
Y9K0534-ICV1	Antimony - 7440-36-0	44.6 ug/L	Initial Cal Check	89.3	90-110	Low Bias				

Batch ID: Y9K0621 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y9K0621-CCV1	Zinc - 7440-66-6	44.4 ug/L	Calibration Check	88.8	90-110	Low Bias				
Y9K0621-CCV2	Antimony - 7440-36-0	57.7 ug/L	Calibration Check	115	90-110	High Bias				
Y9K0621-CCV2	Beryllium - 7440-41-7	60.2 ug/L	Calibration Check	120	90-110	High Bias				
Y9K0621-CCV2	Cadmium - 7440-43-9	59.9 ug/L	Calibration Check	120	90-110	High Bias				
Y9K0621-CCV2	Lead - 7439-92-1	60.2 ug/L	Calibration Check	120	90-110	High Bias				
Y9K0621-CCV2	Silver - 7440-22-4	59.8 ug/L	Calibration Check	120	90-110	High Bias				
Y9K0621-CCV2	Thallium - 7440-28-0	59.5 ug/L	Calibration Check	119	90-110	High Bias				
Y9K0621-CRL1	Selenium - 7782-49-2	4.69 ug/L	Instrument RL Check	469	0-200	High Bias				
Y9K0621-CRL1	Thallium - 7440-28-0	1.26 ug/L	Instrument RL Check	126	75-125	High Bias				
Y9K0621-CRL1	Zinc - 7440-66-6	2.34 ug/L	Instrument RL Check	234	75-125	High Bias				

Batch ID: Y9K0708 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y9K0708-CCV1	Zinc - 7440-66-6	44.4 ug/L	Calibration Check	88.8	90-110	Low Bias				
Y9K0708-CCV2	Antimony - 7440-36-0	57.7 ug/L	Calibration Check	115	90-110	High Bias				
Y9K0708-CCV2	Beryllium - 7440-41-7	60.2 ug/L	Calibration Check	120	90-110	High Bias				
Y9K0708-CCV2	Cadmium - 7440-43-9	59.9 ug/L	Calibration Check	120	90-110	High Bias				
Y9K0708-CCV2	Lead - 7439-92-1	60.2 ug/L	Calibration Check	120	90-110	High Bias				
Y9K0708-CCV2	Silver - 7440-22-4	59.8 ug/L	Calibration Check	120	90-110	High Bias				
Y9K0708-CCV2	Thallium - 7440-28-0	59.5 ug/L	Calibration Check	119	90-110	High Bias				
Y9K0708-CCV8	Antimony - 7440-36-0	57.0 ug/L	Calibration Check	114	90-110	High Bias				
Y9K0708-CCV8	Beryllium - 7440-41-7	59.5 ug/L	Calibration Check	119	90-110	High Bias				
Y9K0708-CCV8	Cadmium - 7440-43-9	56.6 ug/L	Calibration Check	113	90-110	High Bias				
Y9K0708-CCV8	Lead - 7439-92-1	55.4 ug/L	Calibration Check	111	90-110	High Bias				
Y9K0708-CCV8	Silver - 7440-22-4	55.6 ug/L	Calibration Check	111	90-110	High Bias				
Y9K0708-CCV9	Beryllium - 7440-41-7	60.5 ug/L	Calibration Check	121	90-110	High Bias				
Y9K0708-CCVA	Antimony - 7440-36-0	57.3 ug/L	Calibration Check	115	90-110	High Bias				
Y9K0708-CCVA	Beryllium - 7440-41-7	62.4 ug/L	Calibration Check	125	90-110	High Bias				
Y9K0708-CCVA	Cadmium - 7440-43-9	56.9 ug/L	Calibration Check	114	90-110	High Bias				
Y9K0708-CCVA	Lead - 7439-92-1	55.2 ug/L	Calibration Check	110	90-110	High Bias				
Y9K0708-CCVA	Silver - 7440-22-4	55.6 ug/L	Calibration Check	111	90-110	High Bias				
Y9K0708-CRL1	Zinc - 7440-66-6	0.495 ug/L	Instrument RL Check	49.5	75-125	Low Bias				

QC DATA QUALIFIERS

LabID	Analysis	Analyte	Qualifier	Definition
Y9K0621-CRL1	Metals, Priority Pollutant-Low Level	Zinc	M-CRL	The RL check for this element recovered outside of control limits.
Y9K0621-CRL1	Metals, Priority Pollutant-Low Level	Thallium	M-CRL	The RL check for this element recovered outside of control limits.
Y9K0621-CRL1	Metals, Priority Pollutant-Low Level	Selenium	M-CRL	The RL check for this element recovered outside of control limits.
Y9K0534-CRL1	Metals, Priority Pollutant-Low Level	Zinc	M-CRL	The RL check for this element recovered outside of control limits.
Y9K0534-CRL1	Metals, Priority Pollutant-Low Level	Selenium	M-CRL	The RL check for this element recovered outside of control limits.
Y9K0534-ICV1	Metals, Priority Pollutant-Low Level	Antimony	M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.

LabID	Analysis	Analyte	Qualifier	Definition
BJ91821-BSD1	Volatile Organics, 8260 - Comprehensive	Methylcyclohexane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BJ91944-BLK1	Volatile Organics, 8260 - Comprehensive	1,2,3-Trichlorobenzene	J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
BJ91944-BLK1	Volatile Organics, 8260 - Comprehensive	Bromomethane	J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
BJ91944-BS1	Volatile Organics, 8260 - Comprehensive	1,2,3-Trichlorobenzene	QL-02, B	
BJ91944-BS1	Volatile Organics, 8260 - Comprehensive	1,2,4-Trichlorobenzene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BJ91944-BS1	Volatile Organics, 8260 - Comprehensive	2-Butanone	B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

LabID	Analysis	Analyte	Qualifier	Definition
BJ91821-BSD1	Volatile Organics, 8260 - Comprehensive	Tetrachloroethylene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BJ91944-BS1	Volatile Organics, 8260 - Comprehensive	Dichlorodifluoromethane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BJ91821-BSD1	Volatile Organics, 8260 - Comprehensive	Acrolein	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BJ91944-BS1	Volatile Organics, 8260 - Comprehensive	Bromochloromethane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BJ91944-BS1	Volatile Organics, 8260 - Comprehensive	Cyclohexane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BJ91944-BS1	Volatile Organics, 8260 - Comprehensive	Bromomethane	B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
BJ91821-BSD1	Volatile Organics, 8260 - Comprehensive	tert-Butylbenzene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BJ91944-BS1	Volatile Organics, 8260 - Comprehensive	Hexachlorobutadiene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BJ91821-BSD1	Volatile Organics, 8260 - Comprehensive	Dichlorodifluoromethane	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

LabID	Analysis	Analyte	Qualifier	Definition
BJ91944-BSD1	Volatile Organics, 8260 - Comprehensive	Dichlorodifluoromethane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BJ91821-BSD1	Volatile Organics, 8260 - Comprehensive	1,2,4-Trichlorobenzene	B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
BJ91821-BSD1	Volatile Organics, 8260 - Comprehensive	Bromomethane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BJ91821-BSD1	Volatile Organics, 8260 - Comprehensive	1,2,3-Trichlorobenzene	QL-02, B	
BJ91821-BS1	Volatile Organics, 8260 - Comprehensive	Bromomethane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BJ91821-BS1	Volatile Organics, 8260 - Comprehensive	Hexachlorobutadiene	B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
BJ91821-BS1	Volatile Organics, 8260 - Comprehensive	1,2,3-Trichlorobenzene	B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
BJ91821-BS1	Volatile Organics, 8260 - Comprehensive	Acrolein	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BJ91821-BS1	Volatile Organics, 8260 - Comprehensive	1,2,4-Trichlorobenzene	B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
BJ91821-BLK1	Volatile Organics, 8260 - Comprehensive	Hexachlorobutadiene	J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
BJ91821-BSD1	Volatile Organics, 8260 - Comprehensive	Hexachlorobutadiene	B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

LabID	Analysis	Analyte	Qualifier	Definition
Y9K0408-CCV1	Volatile Organics, 8260 - Comprehensive	Methylcyclohexane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y9K0412-CCV1	Volatile Organics, 8260 - Comprehensive	Chloromethane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y9K0412-CCV1	Volatile Organics, 8260 - Comprehensive	Chloroethane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y9K0412-CCV1	Volatile Organics, 8260 - Comprehensive	Methyl acetate	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y9K0412-CCV1	Volatile Organics, 8260 - Comprehensive	Hexachlorobutadiene	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y9K0412-CCV1	Volatile Organics, 8260 - Comprehensive	Cyclohexane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y9K0412-CCV1	Volatile Organics, 8260 - Comprehensive	Carbon tetrachloride	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y9K0412-CCV1	Volatile Organics, 8260 - Comprehensive	Bromochloromethane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

LabID	Analysis	Analyte	Qualifier	Definition
Y9K0412-CCV1	Volatile Organics, 8260 - Comprehensive	1,4-Dioxane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y9K0412-CCV1	Volatile Organics, 8260 - Comprehensive	Bromomethane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y9K0412-CCV1	Volatile Organics, 8260 - Comprehensive	Acrolein	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
BJ91944-BSD1	Volatile Organics, 8260 - Comprehensive	2-Butanone	B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
Y9K0412-CCV1	Volatile Organics, 8260 - Comprehensive	1,2,3-Trichlorobenzene	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
BJ91944-BSD1	Volatile Organics, 8260 - Comprehensive	1,2,3-Trichlorobenzene	B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
Y9K0408-CCV1	Volatile Organics, 8260 - Comprehensive	Bromomethane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y9K0408-CCV1	Volatile Organics, 8260 - Comprehensive	Acetone	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y9K0408-CCV1	Volatile Organics, 8260 - Comprehensive	2-Butanone	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

LabID	Analysis	Analyte	Qualifier	Definition
Y9K0408-CCV1	Volatile Organics, 8260 - Comprehensive	2-Hexanone	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y9K0408-CCV1	Volatile Organics, 8260 - Comprehensive	1,2,3-Trichlorobenzene	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
BJ91944-BSD1	Volatile Organics, 8260 - Comprehensive	Methyl acetate	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
BJ91944-BSD1	Volatile Organics, 8260 - Comprehensive	Cyclohexane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BJ91944-BSD1	Volatile Organics, 8260 - Comprehensive	Carbon disulfide	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
BJ91944-BSD1	Volatile Organics, 8260 - Comprehensive	Methylene chloride	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
BJ91944-BSD1	Volatile Organics, 8260 - Comprehensive	Bromomethane	B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
BJ91821-BLK1	Volatile Organics, 8260 - Comprehensive	1,2,4-Trichlorobenzene	J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
Y9K0412-CCV1	Volatile Organics, 8260 - Comprehensive	1,2,4-Trichlorobenzene	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Batch ID: BJ91821 **General Method:** Volatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
19J1295-01	KC-MW-01 1019
19J1295-02	KC-MW-02 1019
19J1295-03	KC-MW-05 1019
19J1295-04	KC-MW-DUP 1019
19J1295-05	KC-TRIP BLANK 1019
BJ91821-BLK1	Blank
BJ91821-BS1	LCS
BJ91821-BSD1	LCS Dup

Batch ID: BJ91944 **General Method:** Volatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
19J1295-01RE1	KC-MW-01 1019
19J1295-01RE2	KC-MW-01 1019
19J1295-04RE1	KC-MW-DUP 1019
19J1295-04RE2	KC-MW-DUP 1019
BJ91944-BLK1	Blank
BJ91944-BS1	LCS
BJ91944-BSD1	LCS Dup

Batch ID: BK90199 **General Method:** Metals by ICP/MS

YORK Sample ID	Client Sample ID
19J1295-01	KC-MW-01 1019
19J1295-04	KC-MW-DUP 1019
BK90199-BLK1	Blank
BK90199-BS1	LCS

No Sample Nonconformances Found

Notes: Other nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions:
LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate

Analytical Batch Summary

Batch ID: BJ91821 **Preparation Method:** EPA 5030B **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
19J1295-01	KC-MW-01 1019	10/30/19
19J1295-02	KC-MW-02 1019	10/30/19
19J1295-03	KC-MW-05 1019	10/30/19
19J1295-04	KC-MW-DUP 1019	10/30/19
19J1295-05	KC-TRIP BLANK 1019	10/30/19
BJ91821-BLK1	Blank	10/31/19
BJ91821-BS1	LCS	10/31/19
BJ91821-BSD1	LCS Dup	10/31/19

Batch ID: BJ91905 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19J1295-01	KC-MW-01 1019	10/31/19
19J1295-02	KC-MW-02 1019	10/31/19
19J1295-03	KC-MW-05 1019	10/31/19
19J1295-04	KC-MW-DUP 1019	10/31/19
BJ91905-BLK1	Blank	10/31/19
BJ91905-BS1	LCS	10/31/19

Batch ID: BJ91907 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19J1295-01	KC-MW-01 1019	10/31/19
19J1295-02	KC-MW-02 1019	10/31/19
19J1295-03	KC-MW-05 1019	10/31/19
19J1295-04	KC-MW-DUP 1019	10/31/19
19J1295-04RE1	KC-MW-DUP 1019	10/31/19
BJ91907-BLK1	Blank	10/31/19
BJ91907-BS1	LCS	10/31/19

Batch ID: BJ91919 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19J1295-01	KC-MW-01 1019	10/31/19
19J1295-04	KC-MW-DUP 1019	10/31/19
BJ91919-BLK1	Blank	10/31/19
BJ91919-BS1	LCS	10/31/19

Batch ID: BJ91944 **Preparation Method:** EPA 5030B **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
19J1295-01RE1	KC-MW-01 1019	10/30/19
19J1295-01RE2	KC-MW-01 1019	10/30/19

19J1295-04RE1	KC-MW-DUP 1019	10/30/19
19J1295-04RE2	KC-MW-DUP 1019	10/30/19
BJ91944-BLK1	Blank	11/04/19
BJ91944-BS1	LCS	11/04/19
BJ91944-BSD1	LCS Dup	11/04/19

Batch ID: BK90107 **Preparation Method:** EPA 7473 water **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19J1295-01	KC-MW-01 1019	11/04/19
19J1295-02	KC-MW-02 1019	11/04/19
19J1295-03	KC-MW-05 1019	11/04/19
19J1295-04	KC-MW-DUP 1019	11/04/19
BK90107-BLK1	Blank	11/04/19
BK90107-SRM1	Reference	11/04/19

Batch ID: BK90199 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19J1295-01	KC-MW-01 1019	11/05/19
19J1295-04	KC-MW-DUP 1019	11/05/19
BK90199-BLK1	Blank	11/05/19
BK90199-BS1	LCS	11/05/19

Batch ID: BK90246 **Preparation Method:** EPA 7473 water **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
19J1295-01	KC-MW-01 1019	11/06/19
19J1295-04	KC-MW-DUP 1019	11/06/19
BK90246-BLK1	Blank	11/06/19
BK90246-SRM1	Reference	11/06/19

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91821 - EPA 5030B											
Blank (BJ91821-BLK1)											
Prepared: 10/31/2019 Analyzed: 11/01/2019											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	0.50	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	0.26	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	0.32	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91821 - EPA 5030B											
Blank (BJ91821-BLK1)								Prepared: 10/31/2019 Analyzed: 11/01/2019			
n-Butylbenzene	ND	0.50	ug/L								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.68*		*"*	*10.0*		*96.8*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.76*		*"*	*10.0*		*97.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.58*		*"*	*10.0*		*95.8*	*79-122*				
LCS (BJ91821-BS1)								Prepared & Analyzed: 10/31/2019			
1,1,1,2-Tetrachloroethane	11		ug/L	10.0		107	82-126				
1,1,1-Trichloroethane	10		"	10.0		103	78-136				
1,1,2,2-Tetrachloroethane	11		"	10.0		107	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		114	54-165				
1,1,2-Trichloroethane	10		"	10.0		104	82-123				
1,1-Dichloroethane	11		"	10.0		107	82-129				
1,1-Dichloroethylene	10		"	10.0		101	68-138				
1,2,3-Trichlorobenzene	8.6		"	10.0		85.7	76-136				
1,2,3-Trichloropropane	11		"	10.0		110	77-128				
1,2,4-Trichlorobenzene	9.2		"	10.0		91.6	76-137				
1,2,4-Trimethylbenzene	10		"	10.0		101	82-132				
1,2-Dibromo-3-chloropropane	9.0		"	10.0		89.7	45-147				
1,2-Dibromoethane	11		"	10.0		111	83-124				
1,2-Dichlorobenzene	11		"	10.0		106	79-123				
1,2-Dichloroethane	10		"	10.0		101	73-132				
1,2-Dichloropropane	9.8		"	10.0		98.5	78-126				
1,3,5-Trimethylbenzene	10		"	10.0		102	80-131				
1,3-Dichlorobenzene	10		"	10.0		104	86-122				
1,4-Dichlorobenzene	10		"	10.0		104	85-124				
1,4-Dioxane	240		"	210		116	10-349				
2-Butanone	10		"	10.0		101	49-152				
2-Hexanone	10		"	10.0		99.8	51-146				
4-Methyl-2-pentanone	7.0		"	10.0		70.0	57-145				
Acetone	8.8		"	10.0		88.0	14-150				
Acrolein	20		"	10.0		199	10-153	High Bias			
Acrylonitrile	12		"	10.0		118	51-150				
Benzene	12		"	10.0		117	85-126				
Bromochloromethane	11		"	10.0		107	77-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91821 - EPA 5030B											
LCS (BJ91821-BS1)								Prepared & Analyzed: 10/31/2019			
Bromodichloromethane	10		ug/L	10.0		101	79-128				
Bromoform	11		"	10.0		109	78-133				
Bromomethane	2.3		"	10.0		23.2	43-168	Low Bias			
Carbon disulfide	9.9		"	10.0		99.2	68-146				
Carbon tetrachloride	9.5		"	10.0		95.4	77-141				
Chlorobenzene	11		"	10.0		108	88-120				
Chloroethane	12		"	10.0		116	65-136				
Chloroform	10		"	10.0		105	82-128				
Chloromethane	8.3		"	10.0		83.2	43-155				
cis-1,2-Dichloroethylene	11		"	10.0		105	83-129				
cis-1,3-Dichloropropylene	10		"	10.0		105	80-131				
Cyclohexane	10		"	10.0		104	63-149				
Dibromochloromethane	11		"	10.0		107	80-130				
Dibromomethane	10		"	10.0		103	72-134				
Dichlorodifluoromethane	8.1		"	10.0		81.4	44-144				
Ethyl Benzene	11		"	10.0		111	80-131				
Hexachlorobutadiene	10		"	10.0		102	67-146				
Isopropylbenzene	10		"	10.0		102	76-140				
Methyl acetate	10		"	10.0		104	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		106	76-135				
Methylcyclohexane	7.5		"	10.0		74.8	72-143				
Methylene chloride	11		"	10.0		113	55-137				
n-Butylbenzene	9.2		"	10.0		91.7	79-132				
n-Propylbenzene	10		"	10.0		102	78-133				
o-Xylene	11		"	10.0		108	78-130				
p- & m- Xylenes	19		"	20.0		96.7	77-133				
p-Isopropyltoluene	9.7		"	10.0		97.2	81-136				
sec-Butylbenzene	9.8		"	10.0		97.7	79-137				
Styrene	11		"	10.0		107	67-132				
tert-Butyl alcohol (TBA)	52		"	50.0		105	25-162				
tert-Butylbenzene	8.0		"	10.0		79.7	77-138				
Tetrachloroethylene	9.3		"	10.0		92.9	82-131				
Toluene	11		"	10.0		114	80-127				
trans-1,2-Dichloroethylene	10		"	10.0		104	80-132				
trans-1,3-Dichloropropylene	10		"	10.0		102	78-131				
trans-1,4-dichloro-2-butene	11		"	10.0		108	63-141				
Trichloroethylene	9.9		"	10.0		99.4	82-128				
Trichlorofluoromethane	12		"	10.0		116	67-139				
Vinyl Chloride	8.8		"	10.0		87.7	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.75*		*"*	*10.0*		*97.5*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.81*		*"*	*10.0*		*98.1*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.81*		*"*	*10.0*		*98.1*	*79-122*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91821 - EPA 5030B											
LCS Dup (BJ91821-BSD1)							Prepared & Analyzed: 10/31/2019				
1,1,1,2-Tetrachloroethane	9.3		ug/L	10.0		93.4	82-126		13.5	30	
1,1,1-Trichloroethane	8.9		"	10.0		88.6	78-136		15.2	30	
1,1,2,2-Tetrachloroethane	9.3		"	10.0		93.2	76-129		13.6	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.7		"	10.0		96.6	54-165		16.2	30	
1,1,2-Trichloroethane	9.2		"	10.0		91.8	82-123		12.2	30	
1,1-Dichloroethane	9.2		"	10.0		92.3	82-129		14.6	30	
1,1-Dichloroethylene	8.6		"	10.0		86.0	68-138		15.9	30	
1,2,3-Trichlorobenzene	7.5		"	10.0		74.7	76-136	Low Bias	13.7	30	
1,2,3-Trichloropropane	9.5		"	10.0		95.4	77-128		14.4	30	
1,2,4-Trichlorobenzene	8.2		"	10.0		81.7	76-137		11.4	30	
1,2,4-Trimethylbenzene	8.7		"	10.0		87.2	82-132		14.7	30	
1,2-Dibromo-3-chloropropane	7.9		"	10.0		79.2	45-147		12.4	30	
1,2-Dibromoethane	9.7		"	10.0		96.6	83-124		13.5	30	
1,2-Dichlorobenzene	9.2		"	10.0		92.1	79-123		13.8	30	
1,2-Dichloroethane	9.1		"	10.0		91.0	73-132		10.7	30	
1,2-Dichloropropane	8.8		"	10.0		87.5	78-126		11.8	30	
1,3,5-Trimethylbenzene	8.8		"	10.0		88.1	80-131		14.4	30	
1,3-Dichlorobenzene	9.0		"	10.0		90.0	86-122		14.9	30	
1,4-Dichlorobenzene	9.0		"	10.0		90.1	85-124		14.8	30	
1,4-Dioxane	210		"	210		102	10-349		13.0	30	
2-Butanone	8.9		"	10.0		88.6	49-152		13.3	30	
2-Hexanone	8.7		"	10.0		87.4	51-146		13.2	30	
4-Methyl-2-pentanone	6.2		"	10.0		61.8	57-145		12.4	30	
Acetone	8.0		"	10.0		80.2	14-150		9.27	30	
Acrolein	18		"	10.0		178	10-153	High Bias	11.5	30	
Acrylonitrile	10		"	10.0		104	51-150		13.2	30	
Benzene	10		"	10.0		103	85-126		13.4	30	
Bromochloromethane	9.5		"	10.0		95.1	77-128		12.1	30	
Bromodichloromethane	8.8		"	10.0		88.2	79-128		13.8	30	
Bromoform	9.5		"	10.0		95.3	78-133		13.2	30	
Bromomethane	2.3		"	10.0		22.7	43-168	Low Bias	2.18	30	
Carbon disulfide	8.4		"	10.0		84.2	68-146		16.4	30	
Carbon tetrachloride	8.1		"	10.0		81.3	77-141		16.0	30	
Chlorobenzene	9.4		"	10.0		94.0	88-120		14.3	30	
Chloroethane	9.9		"	10.0		98.7	65-136		16.2	30	
Chloroform	9.1		"	10.0		90.8	82-128		14.1	30	
Chloromethane	7.2		"	10.0		71.9	43-155		14.6	30	
cis-1,2-Dichloroethylene	9.1		"	10.0		91.0	83-129		14.6	30	
cis-1,3-Dichloropropylene	9.1		"	10.0		91.1	80-131		13.8	30	
Cyclohexane	8.9		"	10.0		88.9	63-149		15.4	30	
Dibromochloromethane	9.4		"	10.0		94.2	80-130		12.8	30	
Dibromomethane	9.1		"	10.0		90.8	72-134		12.5	30	
Dichlorodifluoromethane	12		"	10.0		115	44-144		34.5	30	Non-dir.
Ethyl Benzene	9.7		"	10.0		96.7	80-131		14.1	30	
Hexachlorobutadiene	8.6		"	10.0		86.5	67-146		16.2	30	
Isopropylbenzene	8.7		"	10.0		87.3	76-140		15.8	30	
Methyl acetate	9.4		"	10.0		93.8	51-139		10.3	30	
Methyl tert-butyl ether (MTBE)	9.5		"	10.0		94.6	76-135		11.6	30	
Methylcyclohexane	6.4		"	10.0		64.2	72-143	Low Bias	15.3	30	
Methylene chloride	9.9		"	10.0		99.4	55-137		12.8	30	
n-Butylbenzene	7.9		"	10.0		79.4	79-132		14.4	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91821 - EPA 5030B											
LCS Dup (BJ91821-BSD1)								Prepared & Analyzed: 10/31/2019			
n-Propylbenzene	8.8		ug/L	10.0		87.5	78-133		15.1	30	
o-Xylene	9.4		"	10.0		94.3	78-130		13.6	30	
p- & m- Xylenes	17		"	20.0		82.8	77-133		15.5	30	
p-Isopropyltoluene	8.4		"	10.0		84.0	81-136		14.6	30	
sec-Butylbenzene	8.4		"	10.0		84.2	79-137		14.8	30	
Styrene	9.4		"	10.0		94.2	67-132		12.7	30	
tert-Butyl alcohol (TBA)	46		"	50.0		92.3	25-162		12.6	30	
tert-Butylbenzene	6.9		"	10.0		69.0	77-138	Low Bias	14.4	30	
Tetrachloroethylene	7.9		"	10.0		79.2	82-131	Low Bias	15.9	30	
Toluene	9.7		"	10.0		97.4	80-127		15.5	30	
trans-1,2-Dichloroethylene	8.8		"	10.0		87.7	80-132		16.8	30	
trans-1,3-Dichloropropylene	9.0		"	10.0		89.5	78-131		13.0	30	
trans-1,4-dichloro-2-butene	9.3		"	10.0		93.0	63-141		14.6	30	
Trichloroethylene	8.4		"	10.0		83.8	82-128		17.0	30	
Trichlorofluoromethane	9.7		"	10.0		97.4	67-139		17.4	30	
Vinyl Chloride	7.4		"	10.0		73.5	58-145		17.6	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.65*		*"*	*10.0*		*96.5*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.79*		*"*	*10.0*		*97.9*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.69*		*"*	*10.0*		*96.9*	*79-122*				
Batch BJ91944 - EPA 5030B											
Blank (BJ91944-BLK1)								Prepared & Analyzed: 11/04/2019			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	0.48	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	0.66	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91944 - EPA 5030B											
Blank (BJ91944-BLK1)											
Prepared & Analyzed: 11/04/2019											
Bromodichloromethane	ND	0.50	ug/L								
Bromoform	ND	0.50	"								
Bromomethane	0.21	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.0*		*"*	*10.0*		*100*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.65*		*"*	*10.0*		*96.5*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.5*		*"*	*10.0*		*105*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91944 - EPA 5030B											
LCS (BJ91944-BS1)								Prepared & Analyzed: 11/04/2019			
1,1,1,2-Tetrachloroethane	11		ug/L	10.0		107	82-126				
1,1,1-Trichloroethane	12		"	10.0		124	78-136				
1,1,2,2-Tetrachloroethane	12		"	10.0		118	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		108	54-165				
1,1,2-Trichloroethane	10		"	10.0		101	82-123				
1,1-Dichloroethane	12		"	10.0		122	82-129				
1,1-Dichloroethylene	9.5		"	10.0		94.7	68-138				
1,2,3-Trichlorobenzene	7.1		"	10.0		71.2	76-136	Low Bias			
1,2,3-Trichloropropane	12		"	10.0		120	77-128				
1,2,4-Trichlorobenzene	7.0		"	10.0		70.2	76-137	Low Bias			
1,2,4-Trimethylbenzene	12		"	10.0		118	82-132				
1,2-Dibromo-3-chloropropane	10		"	10.0		101	45-147				
1,2-Dibromoethane	11		"	10.0		110	83-124				
1,2-Dichlorobenzene	11		"	10.0		110	79-123				
1,2-Dichloroethane	12		"	10.0		119	73-132				
1,2-Dichloropropane	11		"	10.0		106	78-126				
1,3,5-Trimethylbenzene	12		"	10.0		119	80-131				
1,3-Dichlorobenzene	11		"	10.0		111	86-122				
1,4-Dichlorobenzene	11		"	10.0		112	85-124				
1,4-Dioxane	320		"	210		155	10-349				
2-Butanone	9.7		"	10.0		97.3	49-152				
2-Hexanone	9.9		"	10.0		98.7	51-146				
4-Methyl-2-pentanone	11		"	10.0		105	57-145				
Acetone	7.3		"	10.0		73.2	14-150				
Acrolein	8.8		"	10.0		88.0	10-153				
Acrylonitrile	12		"	10.0		121	51-150				
Benzene	12		"	10.0		121	85-126				
Bromochloromethane	13		"	10.0		131	77-128	High Bias			
Bromodichloromethane	11		"	10.0		109	79-128				
Bromoform	10		"	10.0		103	78-133				
Bromomethane	12		"	10.0		121	43-168				
Carbon disulfide	8.3		"	10.0		83.1	68-146				
Carbon tetrachloride	12		"	10.0		118	77-141				
Chlorobenzene	11		"	10.0		108	88-120				
Chloroethane	8.9		"	10.0		89.0	65-136				
Chloroform	12		"	10.0		120	82-128				
Chloromethane	7.3		"	10.0		72.6	43-155				
cis-1,2-Dichloroethylene	12		"	10.0		120	83-129				
cis-1,3-Dichloropropylene	10		"	10.0		103	80-131				
Cyclohexane	5.4		"	10.0		54.5	63-149	Low Bias			
Dibromochloromethane	11		"	10.0		107	80-130				
Dibromomethane	11		"	10.0		110	72-134				
Dichlorodifluoromethane	14		"	10.0		145	44-144	High Bias			
Ethyl Benzene	12		"	10.0		116	80-131				
Hexachlorobutadiene	6.5		"	10.0		64.7	67-146	Low Bias			
Isopropylbenzene	12		"	10.0		120	76-140				
Methyl acetate	8.2		"	10.0		82.4	51-139				
Methyl tert-butyl ether (MTBE)	9.2		"	10.0		91.9	76-135				
Methylcyclohexane	11		"	10.0		114	72-143				
Methylene chloride	8.7		"	10.0		87.1	55-137				
n-Butylbenzene	11		"	10.0		113	79-132				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91944 - EPA 5030B											
LCS (BJ91944-BS1)								Prepared & Analyzed: 11/04/2019			
n-Propylbenzene	12		ug/L	10.0		123	78-133				
o-Xylene	11		"	10.0		111	78-130				
p- & m- Xylenes	23		"	20.0		117	77-133				
p-Isopropyltoluene	12		"	10.0		117	81-136				
sec-Butylbenzene	12		"	10.0		122	79-137				
Styrene	11		"	10.0		108	67-132				
tert-Butyl alcohol (TBA)	38		"	50.0		76.8	25-162				
tert-Butylbenzene	10		"	10.0		103	77-138				
Tetrachloroethylene	9.8		"	10.0		97.5	82-131				
Toluene	11		"	10.0		112	80-127				
trans-1,2-Dichloroethylene	9.5		"	10.0		94.6	80-132				
trans-1,3-Dichloropropylene	10		"	10.0		103	78-131				
trans-1,4-dichloro-2-butene	11		"	10.0		114	63-141				
Trichloroethylene	11		"	10.0		108	82-128				
Trichlorofluoromethane	12		"	10.0		120	67-139				
Vinyl Chloride	12		"	10.0		116	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.0*		*"*	*10.0*		*100*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.84*		*"*	*10.0*		*98.4*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.5*		*"*	*10.0*		*105*	*79-122*				
LCS Dup (BJ91944-BSD1)								Prepared & Analyzed: 11/04/2019			
1,1,1,2-Tetrachloroethane	11		ug/L	10.0		106	82-126		1.13	30	
1,1,1-Trichloroethane	13		"	10.0		126	78-136		1.44	30	
1,1,2,2-Tetrachloroethane	11		"	10.0		107	76-129		9.53	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		123	54-165		12.3	30	
1,1,2-Trichloroethane	10		"	10.0		101	82-123		0.693	30	
1,1-Dichloroethane	12		"	10.0		121	82-129		0.658	30	
1,1-Dichloroethylene	10		"	10.0		101	68-138		6.83	30	
1,2,3-Trichlorobenzene	8.3		"	10.0		83.3	76-136		15.7	30	
1,2,3-Trichloropropane	11		"	10.0		110	77-128		9.32	30	
1,2,4-Trichlorobenzene	7.8		"	10.0		77.5	76-137		9.88	30	
1,2,4-Trimethylbenzene	11		"	10.0		113	82-132		3.89	30	
1,2-Dibromo-3-chloropropane	9.7		"	10.0		96.8	45-147		3.95	30	
1,2-Dibromoethane	10		"	10.0		103	83-124		5.92	30	
1,2-Dichlorobenzene	10		"	10.0		105	79-123		4.56	30	
1,2-Dichloroethane	12		"	10.0		117	73-132		1.86	30	
1,2-Dichloropropane	10		"	10.0		104	78-126		2.76	30	
1,3,5-Trimethylbenzene	11		"	10.0		115	80-131		3.34	30	
1,3-Dichlorobenzene	11		"	10.0		108	86-122		2.91	30	
1,4-Dichlorobenzene	10		"	10.0		103	85-124		8.30	30	
1,4-Dioxane	310		"	210		147	10-349		5.14	30	
2-Butanone	8.9		"	10.0		89.1	49-152		8.80	30	
2-Hexanone	9.3		"	10.0		93.2	51-146		5.73	30	
4-Methyl-2-pentanone	9.8		"	10.0		98.1	57-145		6.89	30	
Acetone	7.0		"	10.0		70.3	14-150		4.04	30	
Acrolein	8.1		"	10.0		81.2	10-153		8.04	30	
Acrylonitrile	9.3		"	10.0		92.9	51-150		26.2	30	
Benzene	12		"	10.0		122	85-126		0.495	30	
Bromochloromethane	12		"	10.0		119	77-128		9.62	30	
Bromodichloromethane	11		"	10.0		108	79-128		1.29	30	
Bromoform	9.6		"	10.0		95.7	78-133		6.96	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91944 - EPA 5030B											
LCS Dup (BJ91944-BSD1)								Prepared & Analyzed: 11/04/2019			
Bromomethane	10		ug/L	10.0		100	43-168		18.8	30	
Carbon disulfide	11		"	10.0		115	68-146		32.0	30	Non-dir.
Carbon tetrachloride	12		"	10.0		121	77-141		3.18	30	
Chlorobenzene	11		"	10.0		108	88-120		0.555	30	
Chloroethane	9.7		"	10.0		96.9	65-136		8.50	30	
Chloroform	12		"	10.0		121	82-128		0.249	30	
Chloromethane	7.4		"	10.0		73.8	43-155		1.64	30	
cis-1,2-Dichloroethylene	12		"	10.0		118	83-129		1.26	30	
cis-1,3-Dichloropropylene	10		"	10.0		100	80-131		2.55	30	
Cyclohexane	5.7		"	10.0		56.7	63-149	Low Bias	3.96	30	
Dibromochloromethane	10		"	10.0		104	80-130		3.33	30	
Dibromomethane	10		"	10.0		104	72-134		5.54	30	
Dichlorodifluoromethane	15		"	10.0		149	44-144	High Bias	3.06	30	
Ethyl Benzene	12		"	10.0		117	80-131		1.55	30	
Hexachlorobutadiene	7.7		"	10.0		76.6	67-146		16.8	30	
Isopropylbenzene	11		"	10.0		115	76-140		4.51	30	
Methyl acetate	11		"	10.0		114	51-139		32.3	30	Non-dir.
Methyl tert-butyl ether (MTBE)	11		"	10.0		111	76-135		18.5	30	
Methylcyclohexane	12		"	10.0		116	72-143		1.31	30	
Methylene chloride	12		"	10.0		121	55-137		32.7	30	Non-dir.
n-Butylbenzene	12		"	10.0		118	79-132		4.33	30	
n-Propylbenzene	12		"	10.0		118	78-133		3.57	30	
o-Xylene	11		"	10.0		111	78-130		0.0900	30	
p- & m- Xylenes	23		"	20.0		117	77-133		0.300	30	
p-Isopropyltoluene	12		"	10.0		117	81-136		0.341	30	
sec-Butylbenzene	12		"	10.0		121	79-137		0.986	30	
Styrene	11		"	10.0		108	67-132		0.0928	30	
tert-Butyl alcohol (TBA)	44		"	50.0		88.2	25-162		13.9	30	
tert-Butylbenzene	10		"	10.0		102	77-138		1.56	30	
Tetrachloroethylene	9.8		"	10.0		97.6	82-131		0.103	30	
Toluene	11		"	10.0		111	80-127		1.17	30	
trans-1,2-Dichloroethylene	12		"	10.0		124	80-132		27.1	30	
trans-1,3-Dichloropropylene	9.8		"	10.0		98.4	78-131		4.37	30	
trans-1,4-dichloro-2-butene	12		"	10.0		119	63-141		4.20	30	
Trichloroethylene	11		"	10.0		109	82-128		1.11	30	
Trichlorofluoromethane	12		"	10.0		115	67-139		3.84	30	
Vinyl Chloride	12		"	10.0		115	58-145		0.520	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.88*		*"*	*10.0*		*98.8*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.75*		*"*	*10.0*		*97.5*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91905 - EPA 3015A											
Blank (BJ91905-BLK1)									Prepared: 10/31/2019 Analyzed: 11/05/2019		
Silver	ND	0.00556	mg/L								
LCS (BJ91905-BS1)									Prepared: 10/31/2019 Analyzed: 11/05/2019		
Silver	0.0527		ug/mL	0.0500		105	80-120				
Batch BJ91919 - EPA 3015A											
Blank (BJ91919-BLK1)									Prepared: 10/31/2019 Analyzed: 11/05/2019		
Silver - Dissolved	ND	0.00556	mg/L								
LCS (BJ91919-BS1)									Prepared: 10/31/2019 Analyzed: 11/05/2019		
Silver - Dissolved	0.0483		ug/mL	0.0500		96.6	80-120				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ91907 - EPA 3015A											
Blank (BJ91907-BLK1)											Prepared: 10/31/2019 Analyzed: 11/05/2019
Antimony	ND	1.11	ug/L								
Arsenic	ND	1.11	"								
Beryllium	ND	0.333	"								
Cadmium	ND	0.556	"								
Chromium	ND	1.11	"								
Copper	ND	1.11	"								
Lead	ND	1.11	"								
Nickel	ND	1.11	"								
Selenium	ND	1.11	"								
Silver	ND	1.11	"								
Thallium	ND	1.11	"								
Zinc	ND	1.11	"								
LCS (BJ91907-BS1)											Prepared: 10/31/2019 Analyzed: 11/05/2019
Antimony	43.3		ug/L	50.0		86.6	80-120				
Arsenic	49.0		"	50.0		98.1	80-120				
Beryllium	45.5		"	50.0		91.0	80-120				
Cadmium	44.7		"	50.0		89.4	80-120				
Chromium	49.3		"	50.0		98.5	80-120				
Copper	50.1		"	50.0		100	80-120				
Lead	48.5		"	50.0		96.9	80-120				
Nickel	49.2		"	50.0		98.5	80-120				
Selenium	46.2		"	50.0		92.3	80-120				
Silver	44.9		"	50.0		89.8	80-120				
Thallium	48.0		"	50.0		96.0	80-120				
Zinc	46.3		"	50.0		92.6	80-120				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK90199 - EPA 3015A											
Blank (BK90199-BLK1)											Prepared: 11/05/2019 Analyzed: 11/06/2019
Antimony - Dissolved	ND	1.11	ug/L								
Arsenic - Dissolved	ND	1.11	"								
Beryllium - Dissolved	ND	0.333	"								
Cadmium - Dissolved	ND	0.556	"								
Chromium - Dissolved	ND	1.11	"								
Copper - Dissolved	ND	1.11	"								
Lead - Dissolved	ND	1.11	"								
Nickel - Dissolved	ND	1.11	"								
Selenium - Dissolved	ND	1.11	"								
Silver - Dissolved	ND	1.11	"								
Thallium - Dissolved	ND	1.11	"								
Zinc - Dissolved	ND	1.11	"								
LCS (BK90199-BS1)											Prepared: 11/05/2019 Analyzed: 11/06/2019
Antimony - Dissolved	44.3		ug/L	50.0		88.7	80-120				
Arsenic - Dissolved	41.8		"	50.0		83.6	80-120				
Beryllium - Dissolved	49.5		"	50.0		98.9	80-120				
Cadmium - Dissolved	44.4		"	50.0		88.8	80-120				
Chromium - Dissolved	41.5		"	50.0		83.1	80-120				
Copper - Dissolved	42.3		"	50.0		84.6	80-120				
Lead - Dissolved	45.8		"	50.0		91.6	80-120				
Nickel - Dissolved	41.6		"	50.0		83.1	80-120				
Selenium - Dissolved	42.4		"	50.0		84.7	80-120				
Silver - Dissolved	45.0		"	50.0		89.9	80-120				
Thallium - Dissolved	43.9		"	50.0		87.7	80-120				
Zinc - Dissolved	36.5		"	50.0		73.1	80-120	Low Bias			

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK90107 - EPA 7473 water											
Blank (BK90107-BLK1)								Prepared & Analyzed: 11/04/2019			
Mercury	ND	0.00020	mg/L								
Reference (BK90107-SRM1)								Prepared & Analyzed: 11/04/2019			
Mercury	0.00888		mg/L	0.0100		88.8	70-130				
Batch BK90246 - EPA 7473 water											
Blank (BK90246-BLK1)								Prepared & Analyzed: 11/06/2019			
Mercury - Dissolved	ND	0.0002000	mg/L								
Reference (BK90246-SRM1)								Prepared & Analyzed: 11/06/2019			
Mercury - Dissolved	0.009423		mg/L	0.0100		94.2	70-130				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
19J1295-01	KC-MW-01 1019	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J1295-02	KC-MW-02 1019	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J1295-03	KC-MW-05 1019	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J1295-04	KC-MW-DUP 1019	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19J1295-05	KC-TRIP BLANK 1019	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
M-CRL	The RL check for this element recovered outside of control limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Corrective Action: Total metals activated on MW01 and MWDUP per Eric Orlowski on 10/31/19.

Laboratory Chain-of-Custody Record

York Project (SDG) No.: 19J1295

Samples Received: 10/30/2019 15:23 **By:** Paul Grace **Logged In:** 10/30/2019 10:36 **By:** Paul Grace

Sample Conditions:

- [x] Custody Seals
- [x] Containers Intact
- [x] COC/Labels Agree
- [x] Preservation Confirmed
- [x] Cooler Temperature Confirmed
- [x] COC Complete
- [x] Chain of Custody Form Received
- [x] Appropriate Sample Volumes Received
- [x] Appropriate Sample Containers Submitted
- [x] Samples Submitted within Holding Times
- [ ] Corrective Action Form Required

Preparation Chain-of-Custody

Sample ID	Reason Prep	Prep Start Date	Prep End Date	Prep Analyst
19J1295-01	EPA 3015A	10/31/2019 15:20	10/31/2019 15:20	Sarah Yu
19J1295-01	EPA 3015A	10/31/2019 12:05	10/31/2019 12:05	Sarah Yu
19J1295-01	EPA 3015A	11/05/2019 14:09	11/05/2019 14:09	Sarah Yu
19J1295-01	EPA 3015A	10/31/2019 12:02	10/31/2019 12:02	Sarah Yu
19J1295-02	EPA 3015A	10/31/2019 12:05	10/31/2019 12:05	Sarah Yu
19J1295-02	EPA 3015A	10/31/2019 12:02	10/31/2019 12:02	Sarah Yu
19J1295-03	EPA 3015A	10/31/2019 12:02	10/31/2019 12:02	Sarah Yu
19J1295-03	EPA 3015A	10/31/2019 12:05	10/31/2019 12:05	Sarah Yu
19J1295-04	EPA 3015A	11/05/2019 14:09	11/05/2019 14:09	Sarah Yu
19J1295-04	EPA 3015A	10/31/2019 12:02	10/31/2019 12:02	Sarah Yu
19J1295-04	EPA 3015A	10/31/2019 15:20	10/31/2019 15:20	Sarah Yu
19J1295-04	EPA 3015A	10/31/2019 12:05	10/31/2019 12:05	Sarah Yu
19J1295-04RE1	EPA 3015A	10/31/2019 12:05	10/31/2019 12:05	Sarah Yu
19J1295-01	EPA 5030B	10/30/2019 6:14	10/30/2019 6:14	Taylor M. Pasquence
19J1295-01RE1	EPA 5030B	10/30/2019 6:14	10/30/2019 6:14	Taylor M. Pasquence
19J1295-01RE2	EPA 5030B	10/30/2019 6:14	10/30/2019 6:14	Taylor M. Pasquence
19J1295-02	EPA 5030B	10/30/2019 6:14	10/30/2019 6:14	Taylor M. Pasquence
19J1295-03	EPA 5030B	10/30/2019 6:14	10/30/2019 6:14	Taylor M. Pasquence
19J1295-04	EPA 5030B	10/30/2019 6:14	10/30/2019 6:14	Taylor M. Pasquence
19J1295-04RE1	EPA 5030B	10/30/2019 6:14	10/30/2019 6:14	Taylor M. Pasquence
19J1295-04RE2	EPA 5030B	10/30/2019 6:14	10/30/2019 6:14	Taylor M. Pasquence
19J1295-05	EPA 5030B	10/30/2019 6:14	10/30/2019 6:14	Taylor M. Pasquence
19J1295-01	EPA 7473 water	11/04/2019 10:35	11/04/2019 10:35	Sarah Yu
19J1295-01	EPA 7473 water	11/06/2019 11:11	11/06/2019 11:11	Sarah Yu
19J1295-02	EPA 7473 water	11/04/2019 10:35	11/04/2019 10:35	Sarah Yu
19J1295-03	EPA 7473 water	11/04/2019 10:35	11/04/2019 10:35	Sarah Yu
19J1295-04	EPA 7473 water	11/04/2019 10:35	11/04/2019 10:35	Sarah Yu
19J1295-04	EPA 7473 water	11/06/2019 11:11	11/06/2019 11:11	Sarah Yu

Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
19J1295-01	Mercury by 7473	11/04/2019 10:35	11/04/2019 11:20	Sarah Yu
19J1295-02	Mercury by 7473	11/04/2019 10:35	11/04/2019 11:31	Sarah Yu
19J1295-03	Mercury by 7473	11/04/2019 10:35	11/04/2019 11:42	Sarah Yu
19J1295-04	Mercury by 7473	11/04/2019 10:35	11/04/2019 11:53	Sarah Yu
19J1295-01	Mercury by 7473, Dissolved	11/06/2019 11:11	11/06/2019 11:34	Sarah Yu
19J1295-04	Mercury by 7473, Dissolved	11/06/2019 11:11	11/06/2019 11:45	Sarah Yu
19J1295-01	Metals, Priority Pollutant-Low Level	10/31/2019 12:05	11/05/2019 11:55	Brian M. Loftus
19J1295-02	Metals, Priority Pollutant-Low Level	10/31/2019 12:05	11/05/2019 12:00	Brian M. Loftus
19J1295-03	Metals, Priority Pollutant-Low Level	10/31/2019 12:05	11/05/2019 12:05	Brian M. Loftus
19J1295-04	Metals, Priority Pollutant-Low Level	10/31/2019 12:05	11/05/2019 12:11	Brian M. Loftus
19J1295-04RE1	Metals, Priority Pollutant-Low Level	10/31/2019 12:05	11/06/2019 12:29	Brian M. Loftus
19J1295-01	Metals, Priority Pollutants Dissolved-l	11/05/2019 14:09	11/06/2019 18:47	Brian M. Loftus
19J1295-04	Metals, Priority Pollutants Dissolved-l	11/05/2019 14:09	11/06/2019 18:53	Brian M. Loftus
19J1295-01	Silver by EPA 6010	10/31/2019 12:02	11/05/2019 14:48	Kristin M. Lopez
19J1295-02	Silver by EPA 6010	10/31/2019 12:02	11/05/2019 14:55	Kristin M. Lopez
19J1295-03	Silver by EPA 6010	10/31/2019 12:02	11/05/2019 15:03	Kristin M. Lopez
19J1295-04	Silver by EPA 6010	10/31/2019 12:02	11/05/2019 15:10	Kristin M. Lopez
19J1295-01	Silver, Dissolved by EPA 6010	10/31/2019 15:20	11/05/2019 21:14	Kristin M. Lopez
19J1295-04	Silver, Dissolved by EPA 6010	10/31/2019 15:20	11/05/2019 21:22	Kristin M. Lopez
19J1295-01	Volatile Organics, 8260 - Comprehens	10/30/2019 6:14	11/01/2019 3:52	Lie Ling Jauw
19J1295-01RE1	Volatile Organics, 8260 - Comprehens	10/30/2019 6:14	11/04/2019 11:10	Lie Ling Jauw
19J1295-01RE2	Volatile Organics, 8260 - Comprehens	10/30/2019 6:14	11/04/2019 12:32	Lie Ling Jauw
19J1295-02	Volatile Organics, 8260 - Comprehens	10/30/2019 6:14	11/01/2019 4:19	Lie Ling Jauw
19J1295-03	Volatile Organics, 8260 - Comprehens	10/30/2019 6:14	11/01/2019 4:45	Lie Ling Jauw
19J1295-04	Volatile Organics, 8260 - Comprehens	10/30/2019 6:14	11/01/2019 5:11	Lie Ling Jauw
19J1295-04RE1	Volatile Organics, 8260 - Comprehens	10/30/2019 6:14	11/04/2019 11:37	Lie Ling Jauw
19J1295-04RE2	Volatile Organics, 8260 - Comprehens	10/30/2019 6:14	11/04/2019 12:59	Lie Ling Jauw
19J1295-05	Volatile Organics, 8260 - Comprehens	10/30/2019 6:14	11/01/2019 1:15	Lie Ling Jauw

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
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www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 19J1795

YOUR Information	Report To:	Invoice To:
Company: CHAZEN	Company: CHAZEN	Company: CHAZEN
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact: ERIC ORLOWSKI	Contact: ERIC ORLOWSKI	Contact: ACCTS PAYABLE
E-mail:	E-mail:	E-mail:

YOUR Project Number: 41103.00

YOUR Project Name: Kingston CVS

YOUR PO#: 05860

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	✓

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Eric Orlowski

Samples Collected by: (print your name above and sign below)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil ¦ Other

Samples From

New York	✓
New Jersey	
Connecticut	
Pennsylvania	
Other	

Report / EDD Type (circle selections)

Summary Report; CT RCP; Standard Excel EDD
QA Report; CT RCP DQA/DUE; EQuIS (Standard)
NY ASP A Package; NJDEP Reduced Deliverables; NYSDEC EQuIS
NY ASP B Package; NJDKQP; NJDEP SRP HazSite
Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
KC-MW-01 1019	GW	10/29/2019 1745	8260 VOCs, TOTAL P.P. METALS, DISS P.P. METALS	3x40mL, 2x250
KC-MW-02 1019	↓	1519	↓	1y 250
KC-MW-05 1019	↓	1431	↓	1x250
KC-MW-DUP 1019	↓	↓	↓, DISS P.P. METALS	↓, 2x250
KC-TRIP BLANK 1019	DI	10/28/2019 1000	↓	↓
			HOLD TOTAL METALS ON KC-MW-01, KC-MW-DUP	
			PENDING CHAZEN AUTHORIZATION, RUN ALL	
			OTHER ANALYSES. THANK YOU!	

Comments: → TO SECURE FRIDGE

Preservation: (check all that apply)
HCl ✓ MeOH ___ HNO3 ✓ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: 4°C

Special Instruction
Field Filtered ✓
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
EJO	10/29/2019 1920	Chazen	10-30-19 8:00	Chazen	10-30-19 1523
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				TC Gale	10/30/19 1523 / 1.0 Degrees C

York Analytical Laboratories, Inc.
SDG: 19J1295
CLASS: VOA
METHOD: EPA 8260C

DATA PACKAGE COVER PAGE

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Client Sample Id:	Lab Sample Id:
KC-MW-01 1019	19J1295-01
KC-MW-01 1019	19J1295-01RE1
KC-MW-01 1019	19J1295-01RE2
KC-MW-02 1019	19J1295-02
KC-MW-05 1019	19J1295-03
KC-MW-DUP 1019	19J1295-04
KC-MW-DUP 1019	19J1295-04RE1
KC-MW-DUP 1019	19J1295-04RE2
KC-TRIP BLANK 1019	19J1295-05

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:  Name: Benjamin Gulizia

Date: 11/7/2019 Title: Laboratory Director

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Sequence: Y9K0408 Instrument: QVOA6

Calibration: YJ90014

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (BJ91821-BS1)			Lab File ID: QV617214.D		Analyzed: 10/31/19 23:03			
SURR: 1,2-Dichloroethane-d4	10.0	97.5	69 - 130	5.324	5.325	-0.0010	+/-1.00	
SURR: Toluene-d8	10.0	98.1	81 - 117	7.172	7.173667	-0.0017	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	98.1	79 - 122	9.946	9.947445	-0.0014	+/-1.00	
LCS Dup (BJ91821-BSD1)			Lab File ID: QV617215.D		Analyzed: 10/31/19 23:29			
SURR: 1,2-Dichloroethane-d4	10.0	96.5	69 - 130	5.324	5.325	-0.0010	+/-1.00	
SURR: Toluene-d8	10.0	97.9	81 - 117	7.172	7.173667	-0.0017	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	96.9	79 - 122	9.949	9.947445	0.0016	+/-1.00	
Blank (BJ91821-BLK1)			Lab File ID: QV617217.D		Analyzed: 11/01/19 00:22			
SURR: 1,2-Dichloroethane-d4	10.0	96.8	69 - 130	5.327	5.325	0.0020	+/-1.00	
SURR: Toluene-d8	10.0	97.6	81 - 117	7.172	7.173667	-0.0017	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	95.8	79 - 122	9.946	9.947445	-0.0014	+/-1.00	
KC-TRIP BLANK 1019 (19J1295-05)			Lab File ID: QV617219.D		Analyzed: 11/01/19 01:15			
SURR: 1,2-Dichloroethane-d4	10.0	98.7	69 - 130	5.324	5.325	-0.0010	+/-1.00	
SURR: Toluene-d8	10.0	98.6	81 - 117	7.175	7.173667	0.0013	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	96.0	79 - 122	9.949	9.947445	0.0016	+/-1.00	
KC-MW-01 1019 (19J1295-01)			Lab File ID: QV617225.D		Analyzed: 11/01/19 03:52			
SURR: 1,2-Dichloroethane-d4	10.0	99.0	69 - 130	5.333	5.325	0.0080	+/-1.00	
SURR: Toluene-d8	10.0	99.3	81 - 117	7.177	7.173667	0.0033	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	96.2	79 - 122	9.949	9.947445	0.0016	+/-1.00	
KC-MW-02 1019 (19J1295-02)			Lab File ID: QV617226.D		Analyzed: 11/01/19 04:19			
SURR: 1,2-Dichloroethane-d4	10.0	98.7	69 - 130	5.324	5.325	-0.0010	+/-1.00	
SURR: Toluene-d8	10.0	99.0	81 - 117	7.172	7.173667	-0.0017	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	93.2	79 - 122	9.946	9.947445	-0.0014	+/-1.00	
KC-MW-05 1019 (19J1295-03)			Lab File ID: QV617227.D		Analyzed: 11/01/19 04:45			
SURR: 1,2-Dichloroethane-d4	10.0	102	69 - 130	5.324	5.325	-0.0010	+/-1.00	
SURR: Toluene-d8	10.0	98.9	81 - 117	7.172	7.173667	-0.0017	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	95.6	79 - 122	9.946	9.947445	-0.0014	+/-1.00	
KC-MW-DUP 1019 (19J1295-04)			Lab File ID: QV617228.D		Analyzed: 11/01/19 05:11			
SURR: 1,2-Dichloroethane-d4	10.0	99.6	69 - 130	5.336	5.325	0.0110	+/-1.00	
SURR: Toluene-d8	10.0	98.9	81 - 117	7.177	7.173667	0.0033	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	102	79 - 122	9.946	9.947445	-0.0014	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Sequence: Y9K0412 Instrument: QVOA9

Calibration: YJ90016

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (BJ91944-BS1)			Lab File ID: QV908486.D		Analyzed: 11/04/19 07:45			
SURR: 1,2-Dichloroethane-d4	10.0	100	69 - 130	5.546	5.548333	-0.0023	+/-1.00	
SURR: Toluene-d8	10.0	98.4	81 - 117	7.414	7.413667	0.0003	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	105	79 - 122	10.216	10.21433	0.0017	+/-1.00	
LCS Dup (BJ91944-BSD1)			Lab File ID: QV908487.D		Analyzed: 11/04/19 08:12			
SURR: 1,2-Dichloroethane-d4	10.0	98.8	69 - 130	5.549	5.548333	0.0007	+/-1.00	
SURR: Toluene-d8	10.0	97.5	81 - 117	7.415	7.413667	0.0013	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	102	79 - 122	10.21	10.21433	-0.0043	+/-1.00	
Blank (BJ91944-BLK1)			Lab File ID: QV908489.D		Analyzed: 11/04/19 09:07			
SURR: 1,2-Dichloroethane-d4	10.0	100	69 - 130	5.549	5.548333	0.0007	+/-1.00	
SURR: Toluene-d8	10.0	96.5	81 - 117	7.414	7.413667	0.0003	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	105	79 - 122	10.213	10.21433	-0.0013	+/-1.00	
KC-MW-01 1019 (19J1295-01RE1)			Lab File ID: QV908492.D		Analyzed: 11/04/19 11:10			
SURR: 1,2-Dichloroethane-d4	10.0	100	69 - 130	5.546	5.548333	-0.0023	+/-1.00	
SURR: Toluene-d8	10.0	102	81 - 117	7.411	7.413667	-0.0027	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	104	79 - 122	10.213	10.21433	-0.0013	+/-1.00	
KC-MW-DUP 1019 (19J1295-04RE1)			Lab File ID: QV908493.D		Analyzed: 11/04/19 11:37			
SURR: 1,2-Dichloroethane-d4	10.0	102	69 - 130	5.549	5.548333	0.0007	+/-1.00	
SURR: Toluene-d8	10.0	97.4	81 - 117	7.415	7.413667	0.0013	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	106	79 - 122	10.213	10.21433	-0.0013	+/-1.00	
KC-MW-01 1019 (19J1295-01RE2)			Lab File ID: QV908495.D		Analyzed: 11/04/19 12:32			
SURR: 1,2-Dichloroethane-d4	10.0	100	69 - 130	5.549	5.548333	0.0007	+/-1.00	
SURR: Toluene-d8	10.0	96.1	81 - 117	7.414	7.413667	0.0003	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	103	79 - 122	10.213	10.21433	-0.0013	+/-1.00	
KC-MW-DUP 1019 (19J1295-04RE2)			Lab File ID: QV908496.D		Analyzed: 11/04/19 12:59			
SURR: 1,2-Dichloroethane-d4	10.0	99.9	69 - 130	5.549	5.548333	0.0007	+/-1.00	
SURR: Toluene-d8	10.0	98.3	81 - 117	7.411	7.413667	-0.0027	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	105	79 - 122	10.213	10.21433	-0.0013	+/-1.00	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BJ91821	Laboratory ID:	BJ91821-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	11	107	82 - 126
1,1,1-Trichloroethane	10.0	10	103	78 - 136
1,1,2,2-Tetrachloroethane	10.0	11	107	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	11	114	54 - 165
1,1,2-Trichloroethane	10.0	10	104	82 - 123
1,1-Dichloroethane	10.0	11	107	82 - 129
1,1-Dichloroethylene	10.0	10	101	68 - 138
1,2,3-Trichlorobenzene	10.0	8.6	85.7	76 - 136
1,2,3-Trichloropropane	10.0	11	110	77 - 128
1,2,4-Trichlorobenzene	10.0	9.2	91.6	76 - 137
1,2,4-Trimethylbenzene	10.0	10	101	82 - 132
1,2-Dibromo-3-chloropropane	10.0	9.0	89.7	45 - 147
1,2-Dibromoethane	10.0	11	111	83 - 124
1,2-Dichlorobenzene	10.0	11	106	79 - 123
1,2-Dichloroethane	10.0	10	101	73 - 132
1,2-Dichloropropane	10.0	9.8	98.5	78 - 126
1,3,5-Trimethylbenzene	10.0	10	102	80 - 131
1,3-Dichlorobenzene	10.0	10	104	86 - 122
1,4-Dichlorobenzene	10.0	10	104	85 - 124
1,4-Dioxane	210	240	116	10 - 349
2-Butanone	10.0	10	101	49 - 152
2-Hexanone	10.0	10	99.8	51 - 146
4-Methyl-2-pentanone	10.0	7.0	70.0	57 - 145
Acetone	10.0	8.8	88.0	14 - 150
Acrolein	10.0	20	199 *	10 - 153
Acrylonitrile	10.0	12	118	51 - 150
Benzene	10.0	12	117	85 - 126
Bromochloromethane	10.0	11	107	77 - 128
Bromodichloromethane	10.0	10	101	79 - 128
Bromoform	10.0	11	109	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BJ91821	Laboratory ID:	BJ91821-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	2.3	23.2 *	43 - 168
Carbon disulfide	10.0	9.9	99.2	68 - 146
Carbon tetrachloride	10.0	9.5	95.4	77 - 141
Chlorobenzene	10.0	11	108	88 - 120
Chloroethane	10.0	12	116	65 - 136
Chloroform	10.0	10	105	82 - 128
Chloromethane	10.0	8.3	83.2	43 - 155
cis-1,2-Dichloroethylene	10.0	11	105	83 - 129
cis-1,3-Dichloropropylene	10.0	10	105	80 - 131
Cyclohexane	10.0	10	104	63 - 149
Dibromochloromethane	10.0	11	107	80 - 130
Dibromomethane	10.0	10	103	72 - 134
Dichlorodifluoromethane	10.0	8.1	81.4	44 - 144
Ethyl Benzene	10.0	11	111	80 - 131
Hexachlorobutadiene	10.0	10	102	67 - 146
Isopropylbenzene	10.0	10	102	76 - 140
Methyl acetate	10.0	10	104	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	11	106	76 - 135
Methylcyclohexane	10.0	7.5	74.8	72 - 143
Methylene chloride	10.0	11	113	55 - 137
n-Butylbenzene	10.0	9.2	91.7	79 - 132
n-Propylbenzene	10.0	10	102	78 - 133
o-Xylene	10.0	11	108	78 - 130
p- & m- Xylenes	20.0	19	96.7	77 - 133
p-Isopropyltoluene	10.0	9.7	97.2	81 - 136
sec-Butylbenzene	10.0	9.8	97.7	79 - 137
Styrene	10.0	11	107	67 - 132
tert-Butyl alcohol (TBA)	50.0	52	105	25 - 162
tert-Butylbenzene	10.0	8.0	79.7	77 - 138
Tetrachloroethylene	10.0	9.3	92.9	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BJ91821	Laboratory ID:	BJ91821-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Toluene	10.0	11	114	80 - 127
trans-1,2-Dichloroethylene	10.0	10	104	80 - 132
trans-1,3-Dichloropropylene	10.0	10	102	78 - 131
trans-1,4-dichloro-2-butene	10.0	11	108	63 - 141
Trichloroethylene	10.0	9.9	99.4	82 - 128
Trichlorofluoromethane	10.0	12	116	67 - 139
Vinyl Chloride	10.0	8.8	87.7	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BJ91821	Laboratory ID:	BJ91821-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	9.3	93.4		13.5	30	82 - 126
1,1,1-Trichloroethane	10.0	8.9	88.6		15.2	30	78 - 136
1,1,2,2-Tetrachloroethane	10.0	9.3	93.2		13.6	30	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.7	96.6		16.2	30	54 - 165
1,1,2-Trichloroethane	10.0	9.2	91.8		12.2	30	82 - 123
1,1-Dichloroethane	10.0	9.2	92.3		14.6	30	82 - 129
1,1-Dichloroethylene	10.0	8.6	86.0		15.9	30	68 - 138
1,2,3-Trichlorobenzene	10.0	7.5	74.7	*	13.7	30	76 - 136
1,2,3-Trichloropropane	10.0	9.5	95.4		14.4	30	77 - 128
1,2,4-Trichlorobenzene	10.0	8.2	81.7		11.4	30	76 - 137
1,2,4-Trimethylbenzene	10.0	8.7	87.2		14.7	30	82 - 132
1,2-Dibromo-3-chloropropane	10.0	7.9	79.2		12.4	30	45 - 147
1,2-Dibromoethane	10.0	9.7	96.6		13.5	30	83 - 124
1,2-Dichlorobenzene	10.0	9.2	92.1		13.8	30	79 - 123
1,2-Dichloroethane	10.0	9.1	91.0		10.7	30	73 - 132
1,2-Dichloropropane	10.0	8.8	87.5		11.8	30	78 - 126
1,3,5-Trimethylbenzene	10.0	8.8	88.1		14.4	30	80 - 131
1,3-Dichlorobenzene	10.0	9.0	90.0		14.9	30	86 - 122
1,4-Dichlorobenzene	10.0	9.0	90.1		14.8	30	85 - 124
1,4-Dioxane	210	210	102		13.0	30	10 - 349
2-Butanone	10.0	8.9	88.6		13.3	30	49 - 152
2-Hexanone	10.0	8.7	87.4		13.2	30	51 - 146
4-Methyl-2-pentanone	10.0	6.2	61.8		12.4	30	57 - 145
Acetone	10.0	8.0	80.2		9.27	30	14 - 150
Acrolein	10.0	18	178	*	11.5	30	10 - 153
Acrylonitrile	10.0	10	104		13.2	30	51 - 150
Benzene	10.0	10	103		13.4	30	85 - 126
Bromochloromethane	10.0	9.5	95.1		12.1	30	77 - 128
Bromodichloromethane	10.0	8.8	88.2		13.8	30	79 - 128
Bromoform	10.0	9.5	95.3		13.2	30	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BJ91821	Laboratory ID:	BJ91821-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	10.0	2.3	22.7 *	2.18	30	43 - 168
Carbon disulfide	10.0	8.4	84.2	16.4	30	68 - 146
Carbon tetrachloride	10.0	8.1	81.3	16.0	30	77 - 141
Chlorobenzene	10.0	9.4	94.0	14.3	30	88 - 120
Chloroethane	10.0	9.9	98.7	16.2	30	65 - 136
Chloroform	10.0	9.1	90.8	14.1	30	82 - 128
Chloromethane	10.0	7.2	71.9	14.6	30	43 - 155
cis-1,2-Dichloroethylene	10.0	9.1	91.0	14.6	30	83 - 129
cis-1,3-Dichloropropylene	10.0	9.1	91.1	13.8	30	80 - 131
Cyclohexane	10.0	8.9	88.9	15.4	30	63 - 149
Dibromochloromethane	10.0	9.4	94.2	12.8	30	80 - 130
Dibromomethane	10.0	9.1	90.8	12.5	30	72 - 134
Dichlorodifluoromethane	10.0	12	115	34.5 *	30	44 - 144
Ethyl Benzene	10.0	9.7	96.7	14.1	30	80 - 131
Hexachlorobutadiene	10.0	8.6	86.5	16.2	30	67 - 146
Isopropylbenzene	10.0	8.7	87.3	15.8	30	76 - 140
Methyl acetate	10.0	9.4	93.8	10.3	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.5	94.6	11.6	30	76 - 135
Methylcyclohexane	10.0	6.4	64.2 *	15.3	30	72 - 143
Methylene chloride	10.0	9.9	99.4	12.8	30	55 - 137
n-Butylbenzene	10.0	7.9	79.4	14.4	30	79 - 132
n-Propylbenzene	10.0	8.8	87.5	15.1	30	78 - 133
o-Xylene	10.0	9.4	94.3	13.6	30	78 - 130
p- & m- Xylenes	20.0	17	82.8	15.5	30	77 - 133
p-Isopropyltoluene	10.0	8.4	84.0	14.6	30	81 - 136
sec-Butylbenzene	10.0	8.4	84.2	14.8	30	79 - 137
Styrene	10.0	9.4	94.2	12.7	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	46	92.3	12.6	30	25 - 162
tert-Butylbenzene	10.0	6.9	69.0 *	14.4	30	77 - 138
Tetrachloroethylene	10.0	7.9	79.2 *	15.9	30	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BJ91821	Laboratory ID:	BJ91821-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	10.0	9.7	97.4	15.5	30	80 - 127
trans-1,2-Dichloroethylene	10.0	8.8	87.7	16.8	30	80 - 132
trans-1,3-Dichloropropylene	10.0	9.0	89.5	13.0	30	78 - 131
trans-1,4-dichloro-2-butene	10.0	9.3	93.0	14.6	30	63 - 141
Trichloroethylene	10.0	8.4	83.8	17.0	30	82 - 128
Trichlorofluoromethane	10.0	9.7	97.4	17.4	30	67 - 139
Vinyl Chloride	10.0	7.4	73.5	17.6	30	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BJ91944	Laboratory ID:	BJ91944-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	11	107	82 - 126
1,1,1-Trichloroethane	10.0	12	124	78 - 136
1,1,2,2-Tetrachloroethane	10.0	12	118	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	11	108	54 - 165
1,1,2-Trichloroethane	10.0	10	101	82 - 123
1,1-Dichloroethane	10.0	12	122	82 - 129
1,1-Dichloroethylene	10.0	9.5	94.7	68 - 138
1,2,3-Trichlorobenzene	10.0	7.1	71.2 *	76 - 136
1,2,3-Trichloropropane	10.0	12	120	77 - 128
1,2,4-Trichlorobenzene	10.0	7.0	70.2 *	76 - 137
1,2,4-Trimethylbenzene	10.0	12	118	82 - 132
1,2-Dibromo-3-chloropropane	10.0	10	101	45 - 147
1,2-Dibromoethane	10.0	11	110	83 - 124
1,2-Dichlorobenzene	10.0	11	110	79 - 123
1,2-Dichloroethane	10.0	12	119	73 - 132
1,2-Dichloropropane	10.0	11	106	78 - 126
1,3,5-Trimethylbenzene	10.0	12	119	80 - 131
1,3-Dichlorobenzene	10.0	11	111	86 - 122
1,4-Dichlorobenzene	10.0	11	112	85 - 124
1,4-Dioxane	210	320	155	10 - 349
2-Butanone	10.0	9.7	97.3	49 - 152
2-Hexanone	10.0	9.9	98.7	51 - 146
4-Methyl-2-pentanone	10.0	11	105	57 - 145
Acetone	10.0	7.3	73.2	14 - 150
Acrolein	10.0	8.8	88.0	10 - 153
Acrylonitrile	10.0	12	121	51 - 150
Benzene	10.0	12	121	85 - 126
Bromochloromethane	10.0	13	131 *	77 - 128
Bromodichloromethane	10.0	11	109	79 - 128
Bromoform	10.0	10	103	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BJ91944	Laboratory ID:	BJ91944-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	12	121	43 - 168
Carbon disulfide	10.0	8.3	83.1	68 - 146
Carbon tetrachloride	10.0	12	118	77 - 141
Chlorobenzene	10.0	11	108	88 - 120
Chloroethane	10.0	8.9	89.0	65 - 136
Chloroform	10.0	12	120	82 - 128
Chloromethane	10.0	7.3	72.6	43 - 155
cis-1,2-Dichloroethylene	10.0	12	120	83 - 129
cis-1,3-Dichloropropylene	10.0	10	103	80 - 131
Cyclohexane	10.0	5.4	54.5 *	63 - 149
Dibromochloromethane	10.0	11	107	80 - 130
Dibromomethane	10.0	11	110	72 - 134
Dichlorodifluoromethane	10.0	14	145 *	44 - 144
Ethyl Benzene	10.0	12	116	80 - 131
Hexachlorobutadiene	10.0	6.5	64.7 *	67 - 146
Isopropylbenzene	10.0	12	120	76 - 140
Methyl acetate	10.0	8.2	82.4	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.2	91.9	76 - 135
Methylcyclohexane	10.0	11	114	72 - 143
Methylene chloride	10.0	8.7	87.1	55 - 137
n-Butylbenzene	10.0	11	113	79 - 132
n-Propylbenzene	10.0	12	123	78 - 133
o-Xylene	10.0	11	111	78 - 130
p- & m- Xylenes	20.0	23	117	77 - 133
p-Isopropyltoluene	10.0	12	117	81 - 136
sec-Butylbenzene	10.0	12	122	79 - 137
Styrene	10.0	11	108	67 - 132
tert-Butyl alcohol (TBA)	50.0	38	76.8	25 - 162
tert-Butylbenzene	10.0	10	103	77 - 138
Tetrachloroethylene	10.0	9.8	97.5	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BJ91944	Laboratory ID:	BJ91944-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Toluene	10.0	11	112	80 - 127
trans-1,2-Dichloroethylene	10.0	9.5	94.6	80 - 132
trans-1,3-Dichloropropylene	10.0	10	103	78 - 131
trans-1,4-dichloro-2-butene	10.0	11	114	63 - 141
Trichloroethylene	10.0	11	108	82 - 128
Trichlorofluoromethane	10.0	12	120	67 - 139
Vinyl Chloride	10.0	12	116	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BJ91944	Laboratory ID:	BJ91944-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	11	106	1.13	30	82 - 126
1,1,1-Trichloroethane	10.0	13	126	1.44	30	78 - 136
1,1,2,2-Tetrachloroethane	10.0	11	107	9.53	30	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroeth ane (Freon 113)	10.0	12	123	12.3	30	54 - 165
1,1,2-Trichloroethane	10.0	10	101	0.693	30	82 - 123
1,1-Dichloroethane	10.0	12	121	0.658	30	82 - 129
1,1-Dichloroethylene	10.0	10	101	6.83	30	68 - 138
1,2,3-Trichlorobenzene	10.0	8.3	83.3	15.7	30	76 - 136
1,2,3-Trichloropropane	10.0	11	110	9.32	30	77 - 128
1,2,4-Trichlorobenzene	10.0	7.8	77.5	9.88	30	76 - 137
1,2,4-Trimethylbenzene	10.0	11	113	3.89	30	82 - 132
1,2-Dibromo-3-chloropropane	10.0	9.7	96.8	3.95	30	45 - 147
1,2-Dibromoethane	10.0	10	103	5.92	30	83 - 124
1,2-Dichlorobenzene	10.0	10	105	4.56	30	79 - 123
1,2-Dichloroethane	10.0	12	117	1.86	30	73 - 132
1,2-Dichloropropane	10.0	10	104	2.76	30	78 - 126
1,3,5-Trimethylbenzene	10.0	11	115	3.34	30	80 - 131
1,3-Dichlorobenzene	10.0	11	108	2.91	30	86 - 122
1,4-Dichlorobenzene	10.0	10	103	8.30	30	85 - 124
1,4-Dioxane	210	310	147	5.14	30	10 - 349
2-Butanone	10.0	8.9	89.1	8.80	30	49 - 152
2-Hexanone	10.0	9.3	93.2	5.73	30	51 - 146
4-Methyl-2-pentanone	10.0	9.8	98.1	6.89	30	57 - 145
Acetone	10.0	7.0	70.3	4.04	30	14 - 150
Acrolein	10.0	8.1	81.2	8.04	30	10 - 153
Acrylonitrile	10.0	9.3	92.9	26.2	30	51 - 150
Benzene	10.0	12	122	0.495	30	85 - 126
Bromochloromethane	10.0	12	119	9.62	30	77 - 128
Bromodichloromethane	10.0	11	108	1.29	30	79 - 128
Bromoform	10.0	9.6	95.7	6.96	30	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water

Batch: BJ91944 Laboratory ID: BJ91944-BSD1

Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	10.0	10	100	18.8	30	43 - 168
Carbon disulfide	10.0	11	115	32.0 *	30	68 - 146
Carbon tetrachloride	10.0	12	121	3.18	30	77 - 141
Chlorobenzene	10.0	11	108	0.555	30	88 - 120
Chloroethane	10.0	9.7	96.9	8.50	30	65 - 136
Chloroform	10.0	12	121	0.249	30	82 - 128
Chloromethane	10.0	7.4	73.8	1.64	30	43 - 155
cis-1,2-Dichloroethylene	10.0	12	118	1.26	30	83 - 129
cis-1,3-Dichloropropylene	10.0	10	100	2.55	30	80 - 131
Cyclohexane	10.0	5.7	56.7 *	3.96	30	63 - 149
Dibromochloromethane	10.0	10	104	3.33	30	80 - 130
Dibromomethane	10.0	10	104	5.54	30	72 - 134
Dichlorodifluoromethane	10.0	15	149 *	3.06	30	44 - 144
Ethyl Benzene	10.0	12	117	1.55	30	80 - 131
Hexachlorobutadiene	10.0	7.7	76.6	16.8	30	67 - 146
Isopropylbenzene	10.0	11	115	4.51	30	76 - 140
Methyl acetate	10.0	11	114	32.3 *	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	11	111	18.5	30	76 - 135
Methylcyclohexane	10.0	12	116	1.31	30	72 - 143
Methylene chloride	10.0	12	121	32.7 *	30	55 - 137
n-Butylbenzene	10.0	12	118	4.33	30	79 - 132
n-Propylbenzene	10.0	12	118	3.57	30	78 - 133
o-Xylene	10.0	11	111	0.0900	30	78 - 130
p- & m- Xylenes	20.0	23	117	0.300	30	77 - 133
p-Isopropyltoluene	10.0	12	117	0.341	30	81 - 136
sec-Butylbenzene	10.0	12	121	0.986	30	79 - 137
Styrene	10.0	11	108	0.0928	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	44	88.2	13.9	30	25 - 162
tert-Butylbenzene	10.0	10	102	1.56	30	77 - 138
Tetrachloroethylene	10.0	9.8	97.6	0.103	30	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BJ91944	Laboratory ID:	BJ91944-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	10.0	11	111	1.17	30	80 - 127
trans-1,2-Dichloroethylene	10.0	12	124	27.1	30	80 - 132
trans-1,3-Dichloropropylene	10.0	9.8	98.4	4.37	30	78 - 131
trans-1,4-dichloro-2-butene	10.0	12	119	4.20	30	63 - 141
Trichloroethylene	10.0	11	109	1.11	30	82 - 128
Trichlorofluoromethane	10.0	12	115	3.84	30	67 - 139
Vinyl Chloride	10.0	12	115	0.520	30	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Batch: BJ91821 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 1019	19J1295-01	QV617225.D	10/30/19 06:14	
KC-MW-02 1019	19J1295-02	QV617226.D	10/30/19 06:14	
KC-MW-05 1019	19J1295-03	QV617227.D	10/30/19 06:14	
KC-MW-DUP 1019	19J1295-04	QV617228.D	10/30/19 06:14	
KC-TRIP BLANK 1019	19J1295-05	QV617219.D	10/30/19 06:14	
Blank	BJ91821-BLK1	QV617217.D	10/31/19 06:14	
LCS	BJ91821-BS1	QV617214.D	10/31/19 06:14	
LCS Dup	BJ91821-BSD1	QV617215.D	10/31/19 06:14	

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Batch: BJ91944 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 1019	19J1295-01RE1	QV908492.D	10/30/19 06:14	From BJ91821 by TMP on 11/04/2019
KC-MW-01 1019	19J1295-01RE2	QV908495.D	10/30/19 06:14	Added 11/4/2019 by TMP
KC-MW-DUP 1019	19J1295-04RE1	QV908493.D	10/30/19 06:14	From BJ91821 by TMP on 11/04/2019
KC-MW-DUP 1019	19J1295-04RE2	QV908496.D	10/30/19 06:14	Added 11/4/2019 by TMP
Blank	BJ91944-BLK1	QV908489.D	11/04/19 06:27	
LCS	BJ91944-BS1	QV908486.D	11/04/19 06:02	
LCS Dup	BJ91944-BSD1	QV908487.D	11/04/19 06:27	

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BJ91821-BLK1	File ID:	QV617217.D
Prepared:	10/31/19 06:14	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/01/19 00:22	Instrument:	QVOA6		
Batch:	BJ91821	Sequence:	Y9K0408	Calibration:	YJ90014

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
75-35-4	1,1-Dichloroethylene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.26	J
95-63-6	1,2,4-Trimethylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BJ91821-BLK1	File ID:	QV617217.D
Prepared:	10/31/19 06:14	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/01/19 00:22	Instrument:	QVOA6		
Batch:	BJ91821	Sequence:	Y9K0408	Calibration:	YJ90014

CAS NO.	COMPOUND	CONC. (ug/L)	Q
74-83-9	Bromomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
108-90-7	Chlorobenzene	0.50	U
75-00-3	Chloroethane	0.50	U
67-66-3	Chloroform	0.50	U
74-87-3	Chloromethane	0.50	U
156-59-2	cis-1,2-Dichloroethylene	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	0.50	U
110-82-7	Cyclohexane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-71-8	Dichlorodifluoromethane	0.50	U
100-41-4	Ethyl Benzene	0.50	U
87-68-3	Hexachlorobutadiene	0.32	J
98-82-8	Isopropylbenzene	0.50	U
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	2.0	U
104-51-8	n-Butylbenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	p- & m- Xylenes	1.0	U
99-87-6	p-Isopropyltoluene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
100-42-5	Styrene	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1.0	U
98-06-6	tert-Butylbenzene	0.50	U
127-18-4	Tetrachloroethylene	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BJ91821-BLK1	File ID:	QV617217.D
Prepared:	10/31/19 06:14	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/01/19 00:22	Instrument:	QVOA6		
Batch:	BJ91821	Sequence:	Y9K0408	Calibration:	YJ90014

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-88-3	Toluene	0.50	U
156-60-5	trans-1,2-Dichloroethylene	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	0.50	U
79-01-6	Trichloroethylene	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
1330-20-7	Xylenes, Total	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.68	96.8	69 - 130	
SURR: p-Bromofluorobenzene	10.0	9.58	95.8	79 - 122	
SURR: Toluene-d8	10.0	9.76	97.6	81 - 117	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,2-Dichlorobenzene-d4	458294	11.624	436278	11.621	
ISTD: Chlorobenzene-d5	1203852	8.666	1165318	8.663	
ISTD: Fluorobenzene	327239	5.636	314424	5.633	

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BJ91944-BLK1	File ID:	QV908489.D
Prepared:	11/04/19 06:27	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/04/19 09:07	Instrument:	QVOA9		
Batch:	BJ91944	Sequence:	Y9K0412	Calibration:	YJ90016

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
75-35-4	1,1-Dichloroethylene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.48	J
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.66	
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BJ91944-BLK1	File ID:	QV908489.D
Prepared:	11/04/19 06:27	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/04/19 09:07	Instrument:	QVOA9		
Batch:	BJ91944	Sequence:	Y9K0412	Calibration:	YJ90016

CAS NO.	COMPOUND	CONC. (ug/L)	Q
74-83-9	Bromomethane	0.21	J
75-15-0	Carbon disulfide	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
108-90-7	Chlorobenzene	0.50	U
75-00-3	Chloroethane	0.50	U
67-66-3	Chloroform	0.50	U
74-87-3	Chloromethane	0.50	U
156-59-2	cis-1,2-Dichloroethylene	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	0.50	U
110-82-7	Cyclohexane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-71-8	Dichlorodifluoromethane	0.50	U
100-41-4	Ethyl Benzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	2.0	U
104-51-8	n-Butylbenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	p- & m- Xylenes	1.0	U
99-87-6	p-Isopropyltoluene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
100-42-5	Styrene	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1.0	U
98-06-6	tert-Butylbenzene	0.50	U
127-18-4	Tetrachloroethylene	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BJ91944-BLK1	File ID:	QV908489.D
Prepared:	11/04/19 06:27	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/04/19 09:07	Instrument:	QVOA9		
Batch:	BJ91944	Sequence:	Y9K0412	Calibration:	YJ90016

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-88-3	Toluene	0.50	U
156-60-5	trans-1,2-Dichloroethylene	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	0.50	U
79-01-6	Trichloroethylene	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
1330-20-7	Xylenes, Total	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.0	100	69 - 130	
SURR: p-Bromofluorobenzene	10.0	10.5	105	79 - 122	
SURR: Toluene-d8	10.0	9.65	96.5	81 - 117	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,2-Dichlorobenzene-d4	249189	11.916	255911	11.919	
ISTD: Chlorobenzene-d5	1032364	8.923	1008143	8.92	
ISTD: Fluorobenzene	274882	5.866	272735	5.865	

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Lab File ID:	QV616873.D	Injection Date:	10/08/19
Instrument ID:	QVOA6	Injection Time:	15:48
Sequence:	Y9J1113	Lab Sample ID:	Y9J1113-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.6	PASS
75	30 - 60% of 95	48.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.61	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	81.6	PASS
175	5 - 9% of 174	7.7	PASS
176	95 - 101% of 174	96.5	PASS
177	5 - 9% of 176	6.83	PASS

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Lab File ID:	QV908307.D	Injection Date:	10/15/19
Instrument ID:	QVOA9	Injection Time:	12:31
Sequence:	Y9J1617	Lab Sample ID:	Y9J1617-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.9	PASS
75	30 - 60% of 95	49.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.37	PASS
173	Less than 2% of 174	1.22	PASS
174	50 - 100% of 95	68.7	PASS
175	5 - 9% of 174	7.44	PASS
176	95 - 101% of 174	97.4	PASS
177	5 - 9% of 176	6.81	PASS

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Lab File ID:	QV617211.D	Injection Date:	10/31/19
Instrument ID:	QVOA6	Injection Time:	21:35
Sequence:	Y9K0408	Lab Sample ID:	Y9K0408-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	19.2	PASS
75	30 - 60% of 95	44.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.7	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	89.9	PASS
175	5 - 9% of 174	7.35	PASS
176	95 - 101% of 174	97.5	PASS
177	5 - 9% of 176	6.43	PASS

FORM V MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Lab File ID:	QV908484.D	Injection Date:	11/04/19
Instrument ID:	QVOA9	Injection Time:	06:27
Sequence:	Y9K0412	Lab Sample ID:	Y9K0412-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	19.7	PASS
75	30 - 60% of 95	53.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.83	PASS
173	Less than 2% of 174	1.28	PASS
174	50 - 100% of 95	63.1	PASS
175	5 - 9% of 174	7.98	PASS
176	95 - 101% of 174	95.1	PASS
177	5 - 9% of 176	7.06	PASS

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Sequence:	Y9J1113	Instrument:	QVOA6
		Calibration:	YJ90014

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y9J1113-TUN1	QV616873.D	10/08/19 15:48
Cal Standard	Y9J1113-CAL1	QV616875.D	10/08/19 16:40
Cal Standard	Y9J1113-CAL2	QV616876.D	10/08/19 17:07
Cal Standard	Y9J1113-CAL3	QV616877.D	10/08/19 17:33
Cal Standard	Y9J1113-CAL4	QV616878.D	10/08/19 17:59
Cal Standard	Y9J1113-CAL5	QV616879.D	10/08/19 18:26
Cal Standard	Y9J1113-CAL6	QV616880.D	10/08/19 18:52
Cal Standard	Y9J1113-CAL7	QV616881.D	10/08/19 19:19
Cal Standard	Y9J1113-CAL8	QV616882.D	10/08/19 19:45
Cal Standard	Y9J1113-CAL9	QV616883.D	10/08/19 20:18
Secondary Cal Check	Y9J1113-SCV1	QV616885.D	10/08/19 21:10

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Sequence:	Y9J1617	Instrument:	QVOA9
		Calibration:	YJ90016

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y9J1617-TUN1	QV908307.D	10/15/19 12:31
Cal Standard	Y9J1617-CAL1	QV908309.D	10/15/19 13:26
Cal Standard	Y9J1617-CAL2	QV908310.D	10/15/19 13:54
Cal Standard	Y9J1617-CAL3	QV908311.D	10/15/19 14:22
Cal Standard	Y9J1617-CAL4	QV908312.D	10/15/19 14:49
Cal Standard	Y9J1617-CAL5	QV908313.D	10/15/19 15:16
Cal Standard	Y9J1617-CAL6	QV908314.D	10/15/19 15:44
Cal Standard	Y9J1617-CAL7	QV908315.D	10/15/19 16:11
Cal Standard	Y9J1617-CAL8	QV908316.D	10/15/19 16:38
Cal Standard	Y9J1617-CAL9	QV908317.D	10/15/19 17:05
Secondary Cal Check	Y9J1617-SCV1	QV908320.D	10/15/19 18:27

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Sequence:	Y9K0408	Instrument:	QVOA6
		Calibration:	YJ90014

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y9K0408-TUN1	QV617211.D	10/31/19 21:35
Calibration Check	Y9K0408-CCV1	QV617212.D	10/31/19 22:01
LCS	BJ91821-BS1	QV617214.D	10/31/19 23:03
LCS Dup	BJ91821-BSD1	QV617215.D	10/31/19 23:29
Blank	BJ91821-BLK1	QV617217.D	11/01/19 00:22
KC-TRIP BLANK 1019	19J1295-05	QV617219.D	11/01/19 01:15
KC-MW-01 1019	19J1295-01	QV617225.D	11/01/19 03:52
KC-MW-02 1019	19J1295-02	QV617226.D	11/01/19 04:19
KC-MW-05 1019	19J1295-03	QV617227.D	11/01/19 04:45
KC-MW-DUP 1019	19J1295-04	QV617228.D	11/01/19 05:11

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Sequence:	Y9K0412	Instrument:	QVOA9
		Calibration:	YJ90016

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y9K0412-TUN1	QV908484.D	11/04/19 06:27
Calibration Check	Y9K0412-CCV1	QV908485.D	11/04/19 06:58
LCS	BJ91944-BS1	QV908486.D	11/04/19 07:45
LCS Dup	BJ91944-BSD1	QV908487.D	11/04/19 08:12
Blank	BJ91944-BLK1	QV908489.D	11/04/19 09:07
KC-MW-01 1019	19J1295-01RE1	QV908492.D	11/04/19 11:10
KC-MW-DUP 1019	19J1295-04RE1	QV908493.D	11/04/19 11:37
KC-MW-01 1019	19J1295-01RE2	QV908495.D	11/04/19 12:32
KC-MW-DUP 1019	19J1295-04RE2	QV908496.D	11/04/19 12:59

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS
Sequence: Y9J1113 Instrument: QVOA6
Calibration: YJ90014

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (Y9J1113-CAL1)			Lab File ID: QV616875.D			Analyzed: 10/08/19 16:40			
ISTD: Fluorobenzene	345718	5.633	377421	5.633	92	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	1225711	8.663	1311031	8.666	93	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	477427	11.623	472778	11.623	101	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9J1113-CAL2)			Lab File ID: QV616876.D			Analyzed: 10/08/19 17:07			
ISTD: Fluorobenzene	389518	5.633	377421	5.633	103	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	1360126	8.663	1311031	8.666	104	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	495716	11.621	472778	11.623	105	50 - 200	-0.0020	+/-0.17	
Cal Standard (Y9J1113-CAL3)			Lab File ID: QV616877.D			Analyzed: 10/08/19 17:33			
ISTD: Fluorobenzene	402908	5.633	377421	5.633	107	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	1400708	8.663	1311031	8.666	107	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	518198	11.621	472778	11.623	110	50 - 200	-0.0020	+/-0.17	
Cal Standard (Y9J1113-CAL4)			Lab File ID: QV616878.D			Analyzed: 10/08/19 17:59			
ISTD: Fluorobenzene	377421	5.633	377421	5.633	100	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	1311031	8.666	1311031	8.666	100	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	472778	11.623	472778	11.623	100	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9J1113-CAL5)			Lab File ID: QV616879.D			Analyzed: 10/08/19 18:26			
ISTD: Fluorobenzene	393622	5.636	377421	5.633	104	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	1381402	8.666	1311031	8.666	105	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	511963	11.623	472778	11.623	108	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9J1113-CAL6)			Lab File ID: QV616880.D			Analyzed: 10/08/19 18:52			
ISTD: Fluorobenzene	388232	5.636	377421	5.633	103	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	1344822	8.663	1311031	8.666	103	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	502517	11.624	472778	11.623	106	50 - 200	0.0010	+/-0.17	
Cal Standard (Y9J1113-CAL7)			Lab File ID: QV616881.D			Analyzed: 10/08/19 19:19			
ISTD: Fluorobenzene	376164	5.633	377421	5.633	100	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	1280100	8.663	1311031	8.666	98	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	486480	11.623	472778	11.623	103	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9J1113-CAL8)			Lab File ID: QV616882.D			Analyzed: 10/08/19 19:45			
ISTD: Fluorobenzene	358495	5.636	377421	5.633	95	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	1213427	8.666	1311031	8.666	93	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	477117	11.623	472778	11.623	101	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9J1113-CAL9)			Lab File ID: QV616883.D			Analyzed: 10/08/19 20:18			
ISTD: Fluorobenzene	359108	5.636	377421	5.633	95	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	1195719	8.666	1311031	8.666	91	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	469856	11.626	472778	11.623	99	50 - 200	0.0030	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Sequence: Y9J1113
Instrument: QVOA6
Calibration: YJ90014

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (Y9J1113-SCV1)			Lab File ID: QV616885.D			Analyzed: 10/08/19 21:10			
ISTD: Fluorobenzene	345757	5.633	377421	5.633	92	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	1236656	8.666	1311031	8.666	94	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	485262	11.623	472778	11.623	103	50 - 200	0.0000	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS
Sequence: Y9J1617 Instrument: QVOA9
Calibration: YJ90016

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (Y9J1617-CAL1)			Lab File ID: QV908309.D			Analyzed: 10/15/19 13:26			
ISTD: Fluorobenzene	263282	5.865	280786	5.863	94	50 - 200	0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	908264	8.92	975928	8.923	93	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	221777	11.916	273279	11.916	81	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9J1617-CAL2)			Lab File ID: QV908310.D			Analyzed: 10/15/19 13:54			
ISTD: Fluorobenzene	266895	5.866	280786	5.863	95	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	932784	8.923	975928	8.923	96	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	237952	11.916	273279	11.916	87	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9J1617-CAL3)			Lab File ID: QV908311.D			Analyzed: 10/15/19 14:22			
ISTD: Fluorobenzene	278022	5.865	280786	5.863	99	50 - 200	0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	963408	8.923	975928	8.923	99	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	248367	11.916	273279	11.916	91	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9J1617-CAL4)			Lab File ID: QV908312.D			Analyzed: 10/15/19 14:49			
ISTD: Fluorobenzene	280786	5.863	280786	5.863	100	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	975928	8.923	975928	8.923	100	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	273279	11.916	273279	11.916	100	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9J1617-CAL5)			Lab File ID: QV908313.D			Analyzed: 10/15/19 15:16			
ISTD: Fluorobenzene	270522	5.865	280786	5.863	96	50 - 200	0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	959440	8.923	975928	8.923	98	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	264589	11.916	273279	11.916	97	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9J1617-CAL6)			Lab File ID: QV908314.D			Analyzed: 10/15/19 15:44			
ISTD: Fluorobenzene	292691	5.865	280786	5.863	104	50 - 200	0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	1011752	8.923	975928	8.923	104	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	270375	11.916	273279	11.916	99	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9J1617-CAL7)			Lab File ID: QV908315.D			Analyzed: 10/15/19 16:11			
ISTD: Fluorobenzene	284654	5.866	280786	5.863	101	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	989385	8.923	975928	8.923	101	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	253413	11.919	273279	11.916	93	50 - 200	0.0030	+/-0.17	
Cal Standard (Y9J1617-CAL8)			Lab File ID: QV908316.D			Analyzed: 10/15/19 16:38			
ISTD: Fluorobenzene	291212	5.865	280786	5.863	104	50 - 200	0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	986449	8.923	975928	8.923	101	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	248760	11.919	273279	11.916	91	50 - 200	0.0030	+/-0.17	
Cal Standard (Y9J1617-CAL9)			Lab File ID: QV908317.D			Analyzed: 10/15/19 17:05			
ISTD: Fluorobenzene	277135	5.866	280786	5.863	99	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	937900	8.926	975928	8.923	96	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	226804	11.922	273279	11.916	83	50 - 200	0.0060	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
Client: Chazen Environmental Services (Poughkeepsie)
Sequence: Y9J1617

SDG: 19J1295
Project: 41103.00 KINGSTON CVS
Instrument: QVOA9
Calibration: YJ90016

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (Y9J1617-SCV1)			Lab File ID: QV908320.D			Analyzed: 10/15/19 18:27			
ISTD: Fluorobenzene	276514	5.865	280786	5.863	98	50 - 200	0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	989437	8.922	975928	8.923	101	50 - 200	-0.0010	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	272987	11.916	273279	11.916	100	50 - 200	0.0000	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS
Sequence: Y9K0408 Instrument: QVOA6
Calibration: YJ90014

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (Y9K0408-CCV1)			Lab File ID: QV617212.D			Analyzed: 10/31/19 22:01			
ISTD: Fluorobenzene	314424	5.633				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	1165318	8.663				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	436278	11.621				50 - 200		+/-0.17	
LCS (BJ91821-BS1)			Lab File ID: QV617214.D			Analyzed: 10/31/19 23:03			
ISTD: Fluorobenzene	292709	5.633	314424	5.633	93	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	1050196	8.663	1165318	8.663	90	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	388750	11.623	436278	11.621	89	50 - 200	0.0020	+/-0.17	
LCS Dup (BJ91821-BSD1)			Lab File ID: QV617215.D			Analyzed: 10/31/19 23:29			
ISTD: Fluorobenzene	328815	5.636	314424	5.633	105	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	1189526	8.663	1165318	8.663	102	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	448627	11.624	436278	11.621	103	50 - 200	0.0030	+/-0.17	
Blank (BJ91821-BLK1)			Lab File ID: QV617217.D			Analyzed: 11/01/19 00:22			
ISTD: Fluorobenzene	327239	5.636	314424	5.633	104	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	1203852	8.666	1165318	8.663	103	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	458294	11.624	436278	11.621	105	50 - 200	0.0030	+/-0.17	
KC-TRIP BLANK 1019 (19J1295-05)			Lab File ID: QV617219.D			Analyzed: 11/01/19 01:15			
ISTD: Fluorobenzene	320092	5.633	314424	5.633	102	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	1144547	8.663	1165318	8.663	98	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	433480	11.621	436278	11.621	99	50 - 200	0.0000	+/-0.17	
KC-MW-01 1019 (19J1295-01)			Lab File ID: QV617225.D			Analyzed: 11/01/19 03:52			
ISTD: Fluorobenzene	339685	5.644	314424	5.633	108	50 - 200	0.0110	+/-0.17	
ISTD: Chlorobenzene-d5	1169236	8.666	1165318	8.663	100	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	437965	11.623	436278	11.621	100	50 - 200	0.0020	+/-0.17	
KC-MW-02 1019 (19J1295-02)			Lab File ID: QV617226.D			Analyzed: 11/01/19 04:19			
ISTD: Fluorobenzene	334247	5.633	314424	5.633	106	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	1187520	8.663	1165318	8.663	102	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	463178	11.623	436278	11.621	106	50 - 200	0.0020	+/-0.17	
KC-MW-05 1019 (19J1295-03)			Lab File ID: QV617227.D			Analyzed: 11/01/19 04:45			
ISTD: Fluorobenzene	320098	5.636	314424	5.633	102	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	1147276	8.663	1165318	8.663	98	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	438840	11.621	436278	11.621	101	50 - 200	0.0000	+/-0.17	
KC-MW-DUP 1019 (19J1295-04)			Lab File ID: QV617228.D			Analyzed: 11/01/19 05:11			
ISTD: Fluorobenzene	353963	5.642	314424	5.633	113	50 - 200	0.0090	+/-0.17	
ISTD: Chlorobenzene-d5	1206454	8.663	1165318	8.663	104	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	425206	11.621	436278	11.621	97	50 - 200	0.0000	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS
Sequence: Y9K0412 Instrument: QVOA9
Calibration: YJ90016

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (Y9K0412-CCV1)			Lab File ID: QV908485.D			Analyzed: 11/04/19 06:58			
ISTD: Fluorobenzene	272735	5.865				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	1008143	8.92				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	255911	11.919				50 - 200		+/-0.17	
LCS (BJ91944-BS1)			Lab File ID: QV908486.D			Analyzed: 11/04/19 07:45			
ISTD: Fluorobenzene	283510	5.863	272735	5.865	104	50 - 200	-0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	1043957	8.92	1008143	8.92	104	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	244741	11.913	255911	11.919	96	50 - 200	-0.0060	+/-0.17	
LCS Dup (BJ91944-BSD1)			Lab File ID: QV908487.D			Analyzed: 11/04/19 08:12			
ISTD: Fluorobenzene	284455	5.866	272735	5.865	104	50 - 200	0.0010	+/-0.17	
ISTD: Chlorobenzene-d5	1058305	8.92	1008143	8.92	105	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	264151	11.916	255911	11.919	103	50 - 200	-0.0030	+/-0.17	
Blank (BJ91944-BLK1)			Lab File ID: QV908489.D			Analyzed: 11/04/19 09:07			
ISTD: Fluorobenzene	274882	5.866	272735	5.865	101	50 - 200	0.0010	+/-0.17	
ISTD: Chlorobenzene-d5	1032364	8.923	1008143	8.92	102	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	249189	11.916	255911	11.919	97	50 - 200	-0.0030	+/-0.17	
KC-MW-01 1019 (19J1295-01RE1)			Lab File ID: QV908492.D			Analyzed: 11/04/19 11:10			
ISTD: Fluorobenzene	269626	5.865	272735	5.865	99	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	991250	8.922	1008143	8.92	98	50 - 200	0.0020	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	232688	11.916	255911	11.919	91	50 - 200	-0.0030	+/-0.17	
KC-MW-DUP 1019 (19J1295-04RE1)			Lab File ID: QV908493.D			Analyzed: 11/04/19 11:37			
ISTD: Fluorobenzene	282536	5.863	272735	5.865	104	50 - 200	-0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	1077440	8.92	1008143	8.92	107	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	254420	11.916	255911	11.919	99	50 - 200	-0.0030	+/-0.17	
KC-MW-01 1019 (19J1295-01RE2)			Lab File ID: QV908495.D			Analyzed: 11/04/19 12:32			
ISTD: Fluorobenzene	276532	5.863	272735	5.865	101	50 - 200	-0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	1043225	8.923	1008143	8.92	103	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	252372	11.919	255911	11.919	99	50 - 200	0.0000	+/-0.17	
KC-MW-DUP 1019 (19J1295-04RE2)			Lab File ID: QV908496.D			Analyzed: 11/04/19 12:59			
ISTD: Fluorobenzene	276179	5.863	272735	5.865	101	50 - 200	-0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	1030893	8.923	1008143	8.92	102	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	249033	11.916	255911	11.919	97	50 - 200	-0.0030	+/-0.17	

HOLDING TIME SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
KC-MW-01 1019	10/29/19 17:45	10/30/19 15:23	10/30/19 06:14	0.52	14.00	11/01/19 03:52	2.42	14.00	
KC-MW-01 1019	10/29/19 17:45	10/30/19 15:23	10/30/19 06:14	0.52	14.00	11/04/19 11:10	5.73	14.00	
KC-MW-01 1019	10/29/19 17:45	10/30/19 15:23	10/30/19 06:14	0.52	14.00	11/04/19 12:32	5.78	14.00	
KC-MW-02 1019	10/29/19 15:19	10/30/19 15:23	10/30/19 06:14	0.62	14.00	11/01/19 04:19	2.54	14.00	
KC-MW-05 1019	10/29/19 14:31	10/30/19 15:23	10/30/19 06:14	0.65	14.00	11/01/19 04:45	2.59	14.00	
KC-MW-DUP 1019	10/29/19 00:00	10/30/19 15:23	10/30/19 06:14	1.26	14.00	11/01/19 05:11	3.22	14.00	
KC-MW-DUP 1019	10/29/19 00:00	10/30/19 15:23	10/30/19 06:14	1.26	14.00	11/04/19 11:37	6.48	14.00	
KC-MW-DUP 1019	10/29/19 00:00	10/30/19 15:23	10/30/19 06:14	1.26	14.00	11/04/19 12:59	6.54	14.00	
KC-TRIP BLANK 1019	10/29/19 10:00	10/30/19 15:23	10/30/19 06:14	0.84	14.00	11/01/19 01:15	2.64	14.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19J1295

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Matrix: Water **Instrument:** QVOA6

Analyte	LOD	LOQ	Units
1,1,1,2-Tetrachloroethane	0.20	0.50	ug/L
1,1,1-Trichloroethane	0.20	0.50	ug/L
1,1,2,2-Tetrachloroethane	0.20	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.20	0.50	ug/L
1,1,2-Trichloroethane	0.20	0.50	ug/L
1,1-Dichloroethane	0.20	0.50	ug/L
1,1-Dichloroethylene	0.20	0.50	ug/L
1,2,3-Trichlorobenzene	0.20	0.50	ug/L
1,2,3-Trichloropropane	0.20	0.50	ug/L
1,2,4-Trichlorobenzene	0.20	0.50	ug/L
1,2,4-Trimethylbenzene	0.20	0.50	ug/L
1,2-Dibromo-3-chloropropane	0.20	0.50	ug/L
1,2-Dibromoethane	0.20	0.50	ug/L
1,2-Dichlorobenzene	0.20	0.50	ug/L
1,2-Dichloroethane	0.20	0.50	ug/L
1,2-Dichloropropane	0.20	0.50	ug/L
1,3,5-Trimethylbenzene	0.20	0.50	ug/L
1,3-Dichlorobenzene	0.20	0.50	ug/L
1,4-Dichlorobenzene	0.20	0.50	ug/L
1,4-Dioxane	40	40	ug/L
2-Butanone	0.20	0.50	ug/L
2-Hexanone	0.20	0.50	ug/L
4-Methyl-2-pentanone	0.20	0.50	ug/L
Acetone	1.0	2.0	ug/L
Acrolein	0.20	0.50	ug/L
Acrylonitrile	0.20	0.50	ug/L
Benzene	0.20	0.50	ug/L
Bromochloromethane	0.20	0.50	ug/L
Bromodichloromethane	0.20	0.50	ug/L
Bromoform	0.20	0.50	ug/L
Bromomethane	0.20	0.50	ug/L
Carbon disulfide	0.20	0.50	ug/L
Carbon tetrachloride	0.20	0.50	ug/L
Chlorobenzene	0.20	0.50	ug/L
Chloroethane	0.20	0.50	ug/L
Chloroform	0.20	0.50	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19J1295

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Matrix: Water **Instrument:** QVOA6

Analyte	LOD	LOQ	Units
Chloromethane	0.20	0.50	ug/L
cis-1,2-Dichloroethylene	0.20	0.50	ug/L
cis-1,3-Dichloropropylene	0.20	0.50	ug/L
Cyclohexane	0.20	0.50	ug/L
Dibromochloromethane	0.20	0.50	ug/L
Dibromomethane	0.20	0.50	ug/L
Dichlorodifluoromethane	0.20	0.50	ug/L
Ethyl Benzene	0.20	0.50	ug/L
Hexachlorobutadiene	0.20	0.50	ug/L
Isopropylbenzene	0.20	0.50	ug/L
Methyl acetate	0.20	0.50	ug/L
Methyl tert-butyl ether (MTBE)	0.20	0.50	ug/L
Methylcyclohexane	0.20	0.50	ug/L
Methylene chloride	1.0	2.0	ug/L
n-Butylbenzene	0.20	0.50	ug/L
n-Propylbenzene	0.20	0.50	ug/L
o-Xylene	0.20	0.50	ug/L
p- & m- Xylenes	0.50	1.0	ug/L
p-Isopropyltoluene	0.20	0.50	ug/L
sec-Butylbenzene	0.20	0.50	ug/L
Styrene	0.20	0.50	ug/L
tert-Butyl alcohol (TBA)	0.50	1.0	ug/L
tert-Butylbenzene	0.20	0.50	ug/L
Tetrachloroethylene	0.20	0.50	ug/L
Toluene	0.20	0.50	ug/L
trans-1,2-Dichloroethylene	0.20	0.50	ug/L
trans-1,3-Dichloropropylene	0.20	0.50	ug/L
trans-1,4-dichloro-2-butene	0.20	0.50	ug/L
Trichloroethylene	0.20	0.50	ug/L
Trichlorofluoromethane	0.20	0.50	ug/L
Vinyl Chloride	0.20	0.50	ug/L
Xylenes, Total	0.60	1.5	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19J1295

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Matrix: Water **Instrument:** QVOA9

Analyte	LOD	LOQ	Units
1,1,1,2-Tetrachloroethane	0.20	0.50	ug/L
1,1,1-Trichloroethane	0.20	0.50	ug/L
1,1,2,2-Tetrachloroethane	0.20	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.20	0.50	ug/L
1,1,2-Trichloroethane	0.20	0.50	ug/L
1,1-Dichloroethane	0.20	0.50	ug/L
1,1-Dichloroethylene	0.20	0.50	ug/L
1,2,3-Trichlorobenzene	0.20	0.50	ug/L
1,2,3-Trichloropropane	0.20	0.50	ug/L
1,2,4-Trichlorobenzene	0.20	0.50	ug/L
1,2,4-Trimethylbenzene	0.20	0.50	ug/L
1,2-Dibromo-3-chloropropane	0.20	0.50	ug/L
1,2-Dibromoethane	0.20	0.50	ug/L
1,2-Dichlorobenzene	0.20	0.50	ug/L
1,2-Dichloroethane	0.20	0.50	ug/L
1,2-Dichloropropane	0.20	0.50	ug/L
1,3,5-Trimethylbenzene	0.20	0.50	ug/L
1,3-Dichlorobenzene	0.20	0.50	ug/L
1,4-Dichlorobenzene	0.20	0.50	ug/L
1,4-Dioxane	40	40	ug/L
2-Butanone	0.20	0.50	ug/L
2-Hexanone	0.20	0.50	ug/L
4-Methyl-2-pentanone	0.20	0.50	ug/L
Acetone	1.0	2.0	ug/L
Acrolein	0.20	0.50	ug/L
Acrylonitrile	0.20	0.50	ug/L
Benzene	0.20	0.50	ug/L
Bromochloromethane	0.20	0.50	ug/L
Bromodichloromethane	0.20	0.50	ug/L
Bromoform	0.20	0.50	ug/L
Bromomethane	0.20	0.50	ug/L
Carbon disulfide	0.20	0.50	ug/L
Carbon tetrachloride	0.20	0.50	ug/L
Chlorobenzene	0.20	0.50	ug/L
Chloroethane	0.20	0.50	ug/L
Chloroform	0.20	0.50	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19J1295

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Matrix: Water **Instrument:** QVOA9

Analyte	LOD	LOQ	Units
Chloromethane	0.20	0.50	ug/L
cis-1,2-Dichloroethylene	0.20	0.50	ug/L
cis-1,3-Dichloropropylene	0.20	0.50	ug/L
Cyclohexane	0.20	0.50	ug/L
Dibromochloromethane	0.20	0.50	ug/L
Dibromomethane	0.20	0.50	ug/L
Dichlorodifluoromethane	0.20	0.50	ug/L
Ethyl Benzene	0.20	0.50	ug/L
Hexachlorobutadiene	0.20	0.50	ug/L
Isopropylbenzene	0.20	0.50	ug/L
Methyl acetate	0.20	0.50	ug/L
Methyl tert-butyl ether (MTBE)	0.20	0.50	ug/L
Methylcyclohexane	0.20	0.50	ug/L
Methylene chloride	1.0	2.0	ug/L
n-Butylbenzene	0.20	0.50	ug/L
n-Propylbenzene	0.20	0.50	ug/L
o-Xylene	0.20	0.50	ug/L
p- & m- Xylenes	0.50	1.0	ug/L
p-Isopropyltoluene	0.20	0.50	ug/L
sec-Butylbenzene	0.20	0.50	ug/L
Styrene	0.20	0.50	ug/L
tert-Butyl alcohol (TBA)	0.50	1.0	ug/L
tert-Butylbenzene	0.20	0.50	ug/L
Tetrachloroethylene	0.20	0.50	ug/L
Toluene	0.20	0.50	ug/L
trans-1,2-Dichloroethylene	0.20	0.50	ug/L
trans-1,3-Dichloropropylene	0.20	0.50	ug/L
trans-1,4-dichloro-2-butene	0.20	0.50	ug/L
Trichloroethylene	0.20	0.50	ug/L
Trichlorofluoromethane	0.20	0.50	ug/L
Vinyl Chloride	0.20	0.50	ug/L
Xylenes, Total	0.60	1.5	ug/L

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

KC-MW-01 1019

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19J1295-01	File ID:	QV617225.D
Sampled:	10/29/19 17:45	Prepared:	10/30/19 06:14	Analyzed:	11/01/19 03:52
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BJ91821	Sequence:	Y9K0408	Calibration:	YJ90014
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.47	J
75-34-3	1,1-Dichloroethane	1	18	
75-35-4	1,1-Dichloroethylene	1	91	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	3.2	
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.88	
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.24	J
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.29	J
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-01 1019

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19J1295-01	File ID:	QV617225.D
Sampled:	10/29/19 17:45	Prepared:	10/30/19 06:14	Analyzed:	11/01/19 03:52
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BJ91821	Sequence:	Y9K0408	Calibration:	YJ90014
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.50	U
108-88-3	Toluene	1	1.5	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.90	99.0	69 - 130	
SURR: Toluene-d8	10.0	9.93	99.3	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.62	96.2	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	339685	5.644	314424	5.633	
ISTD: Chlorobenzene-d5	1169236	8.666	1165318	8.663	
ISTD: 1,2-Dichlorobenzene-d4	437965	11.623	436278	11.621	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617225.D
Acq On : 1 Nov 2019 3:52 am
InstName : MSVOA6
Operator : LLJ
Sample : 19J1295-01
Misc : QBQV6103119B 8260 B
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 04 10:22:37 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration

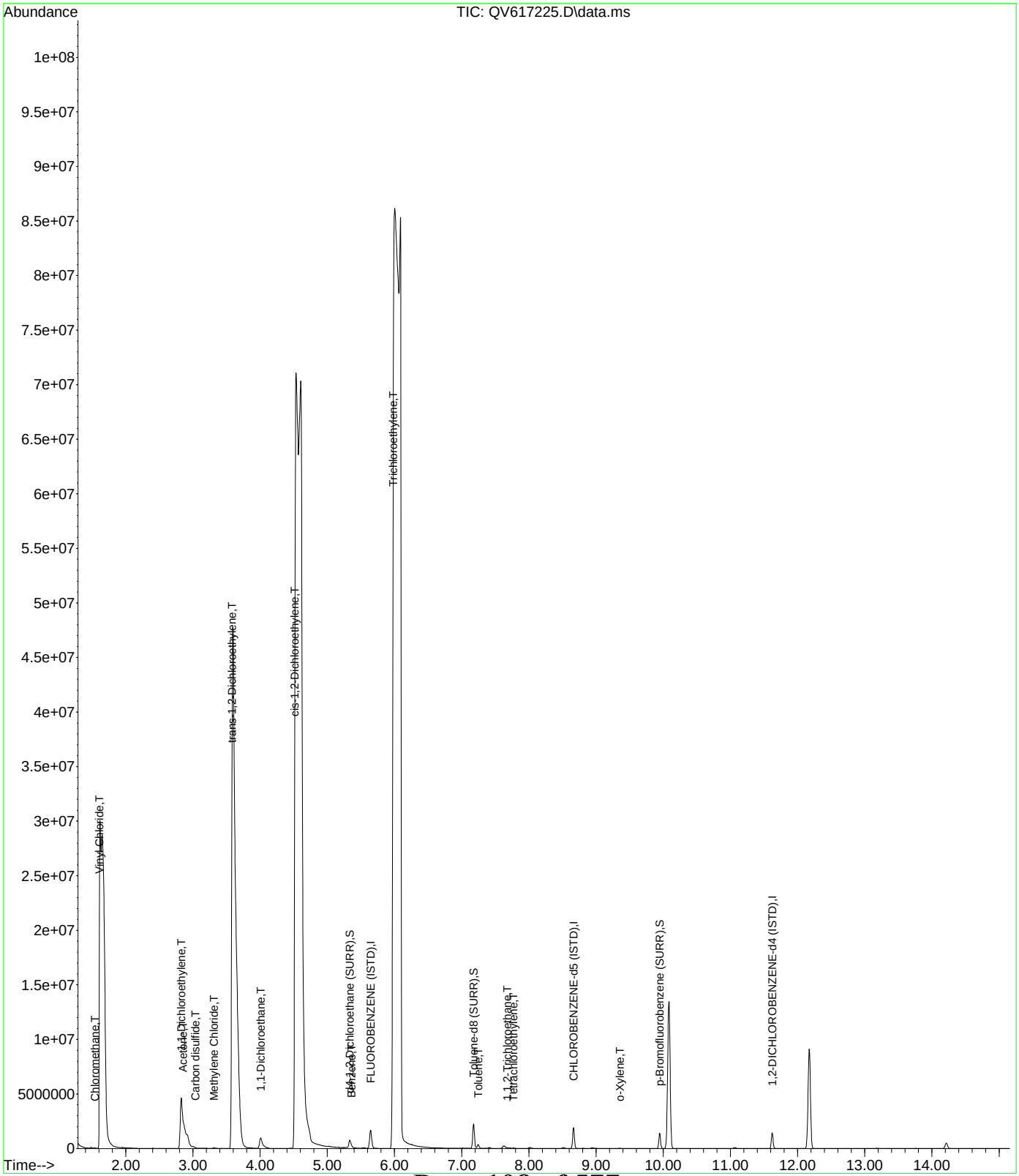
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.644	70	339685	10.00	ppb	#	0.01
41) CHLOROBENZENE-d5 (ISTD)	8.666	117	1169236	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.623	152	437965	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.333	65	465514	9.90	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 99.00%				
53) Toluene-d8 (SURR)	7.177	98	1527216	9.93	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 99.30%				
73) p-Bromofluorobenzene (...	9.949	95	508791	9.62	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 96.20%				
Target Compounds							Qvalue
3) Chloromethane	1.541	50	13507m	0.29	ppb		
4) Vinyl Chloride	1.607	62	53370676m	1156.70	ppb		
10) 1,1-Dichloroethylene	2.826	61	6304392	90.65	ppb	#	65
12) Acetone	2.851	43	54749	3.15	ppb		99
16) Carbon disulfide	3.035	76	25438m	0.24	ppb		
17) tert-Butyl Alcohol (TBA)	3.594	59	2035851	Below Cal		#	1
18) Methylene Chloride	3.313	49	41405m	0.65	ppb		
20) trans-1,2-Dichloroethy...	3.580	61	47695996m	717.17	ppb		
22) 1,1-Dichloroethane	4.008	63	1532993	17.56	ppb		99
26) cis-1,2-Dichloroethylene	4.515	61	74683225m	944.81	ppb		
39) Benzene	5.361	78	149203	0.88	ppb	#	1
42) Trichloroethylene	5.978	95	67984641m	1394.03	ppb		
54) Toluene	7.247	91	260127	1.51	ppb		99
57) 1,1,2-Trichloroethane	7.678	97	16260	0.47	ppb	#	79
59) Tetrachloroethylene	7.770	166	9470m	0.18	ppb		
66) p- & m-Xylenes	8.941	91	39621	Below Cal		#	92
67) o-Xylene	9.356	91	18403	0.13	ppb		100
98) Naphthalene	13.760	128	12812	Below Cal			99

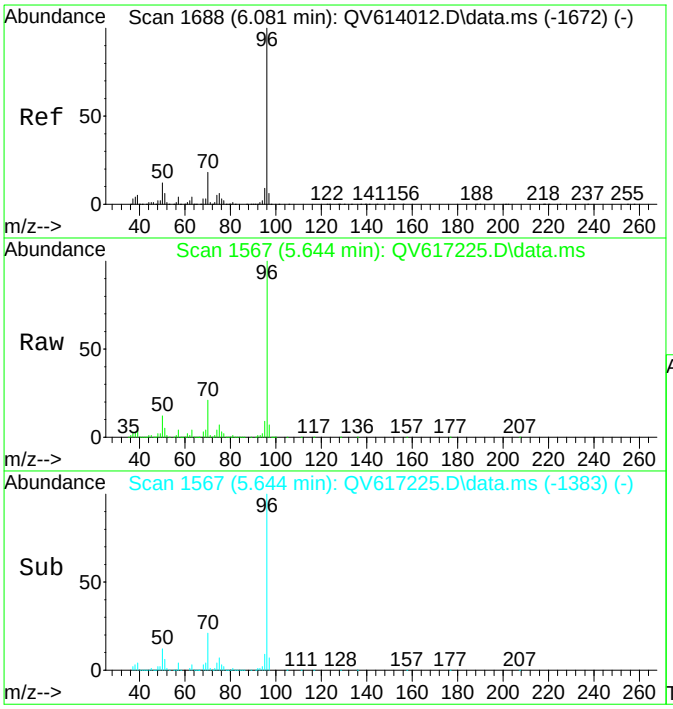
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617225.D
Acq On : 1 Nov 2019 3:52 am
InstName : MSVOA6
Operator : LLJ
Sample : 19J1295-01
Misc : QBQV6103119B 8260 B
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 04 10:22:37 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration

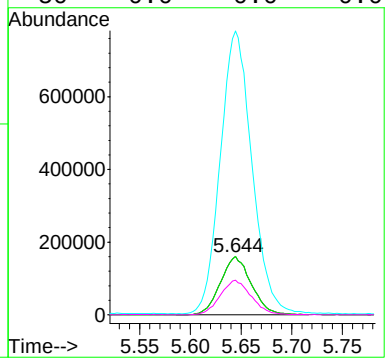


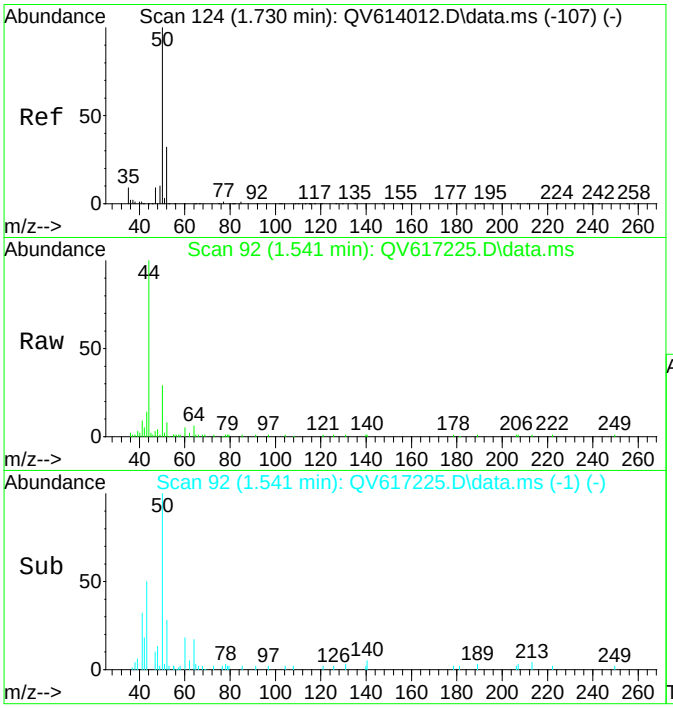


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.644 min Scan# 1567
Delta R.T. 0.011 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 70 Resp: 339685

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	496.9	341.1	708.3
50	0.0	0.0	0.0

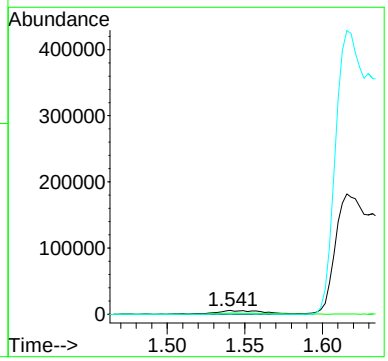


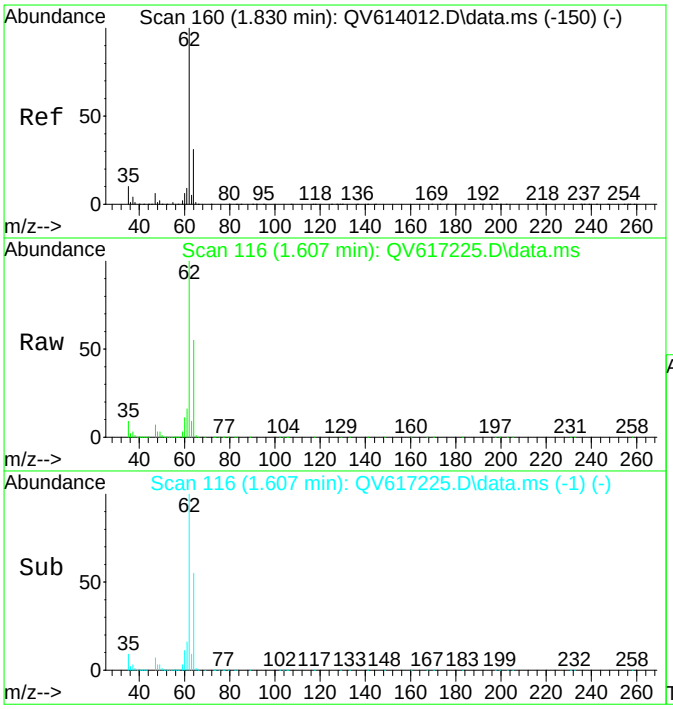


#3
Chloromethane
Concen: 0.29 ppb m
RT: 1.541 min Scan# 92
Delta R.T. -0.011 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 50 Resp: 13507

Ion	Ratio	Lower	Upper
50	100		
52	16.9	5.2	10.8#
49	0.0	2.0	4.2#

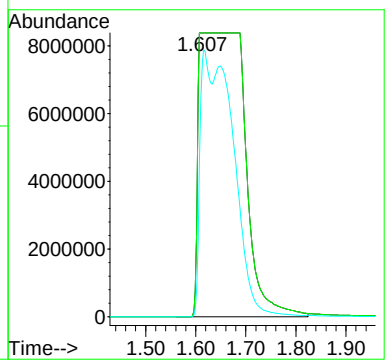


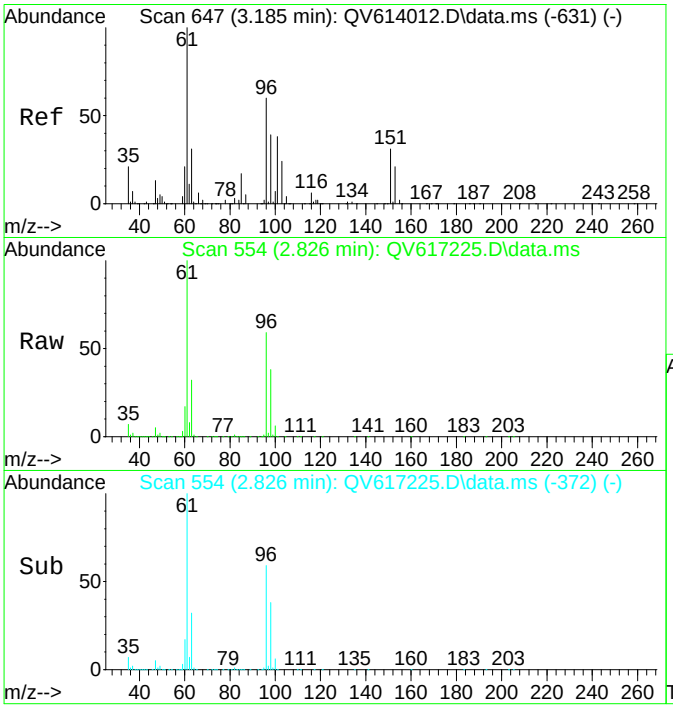


#4
Vinyl Chloride
Concen: 1156.70 ppb m
RT: 1.607 min Scan# 116
Delta R.T. -0.014 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 62 Resp:53370676

Ion	Ratio	Lower	Upper
62	100		
62	0.0	36.0	74.8#
64	0.0	12.5	25.9#

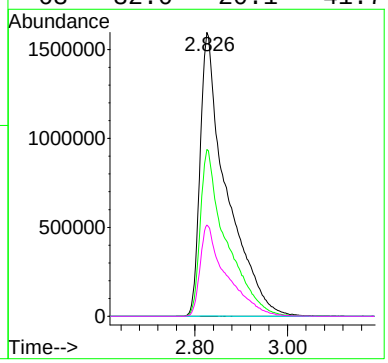


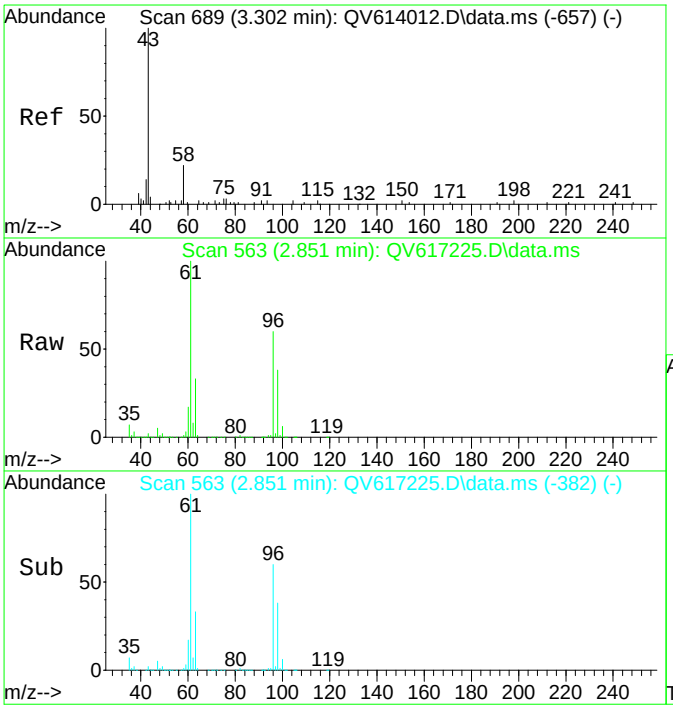


#10
1,1-Dichloroethylene
Concen: 90.65 ppb
RT: 2.826 min Scan# 554
Delta R.T. 0.006 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 61 Resp: 6304392

Ion	Ratio	Lower	Upper
61	100		
96	57.7	33.6	69.8
101	0.1	37.0	77.0#
63	32.0	20.1	41.7

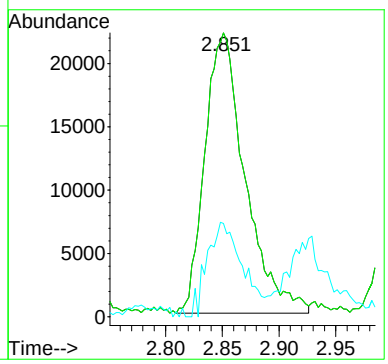


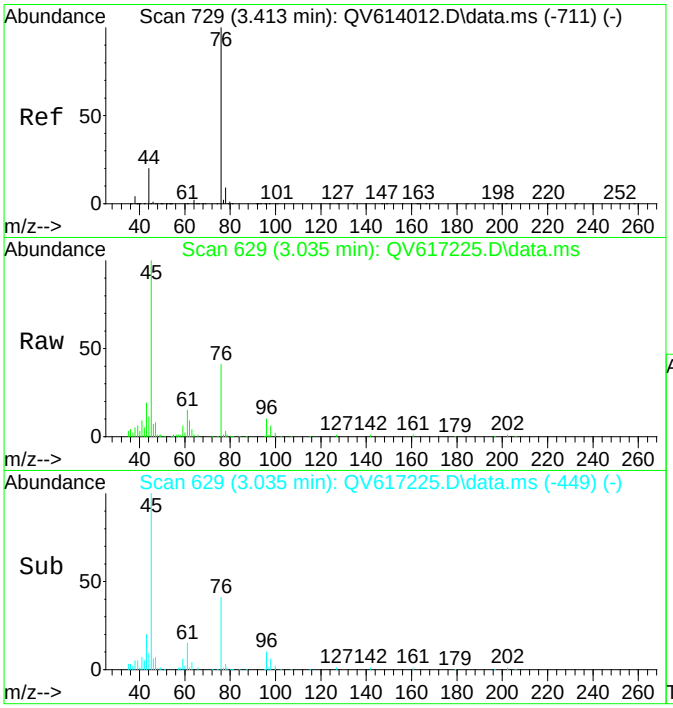


#12
Acetone
Concen: 3.15 ppb
RT: 2.851 min Scan# 563
Delta R.T. 0.003 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 43 Resp: 54749

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	16.6	6.0	18.1

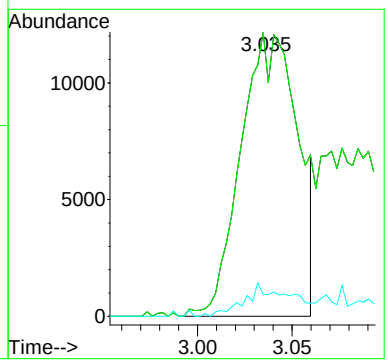


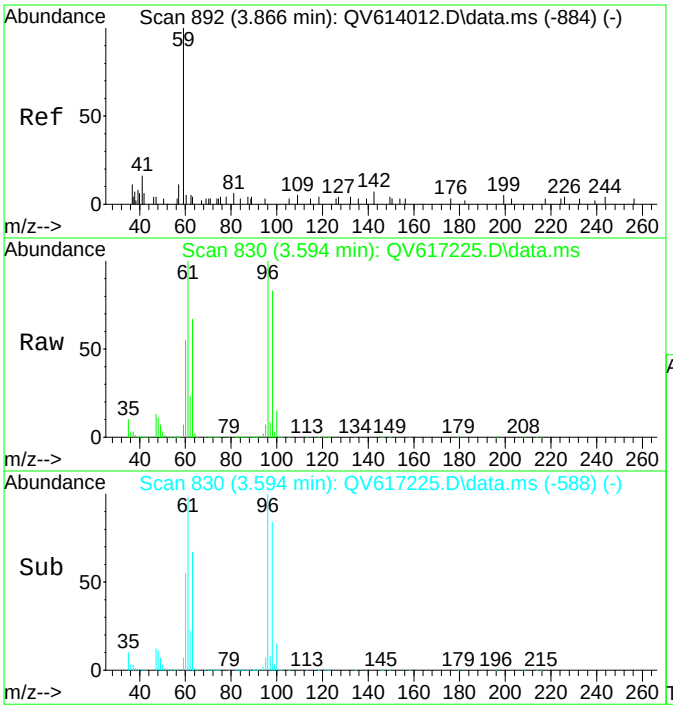


#16
Carbon disulfide
Concen: 0.24 ppb m
RT: 3.035 min Scan# 629
Delta R.T. -0.000 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 76 Resp: 25438

Ion	Ratio	Lower	Upper
76	100		
76	51.4	65.0	135.0#
78	4.6	4.5	13.4

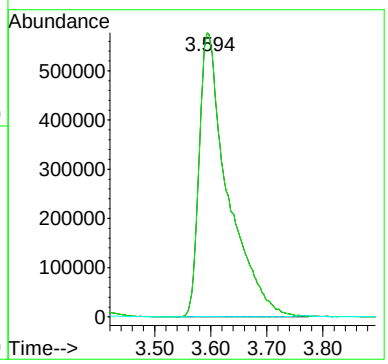


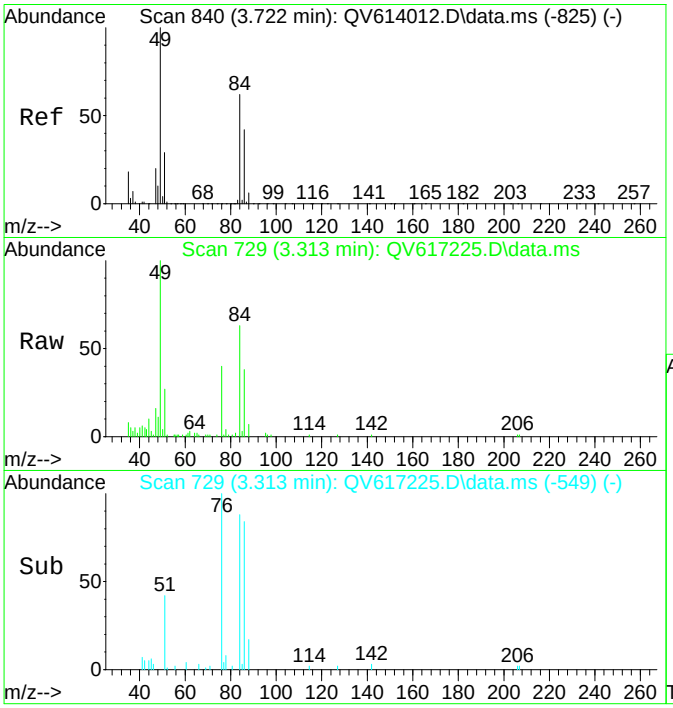


#17
tert-Butyl Alcohol (TBA)
Concen: Below Cal
RT: 3.594 min Scan# 830
Delta R.T. 0.173 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 59 Resp: 2035851

Ion	Ratio	Lower	Upper
59	100		
59	100.0	19.3	40.1#
41	0.0	0.0	0.0

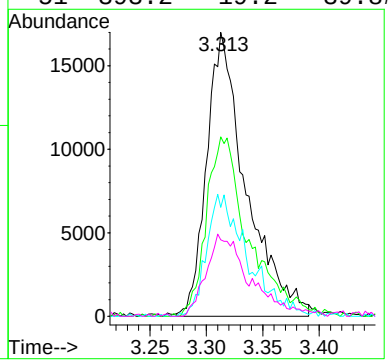


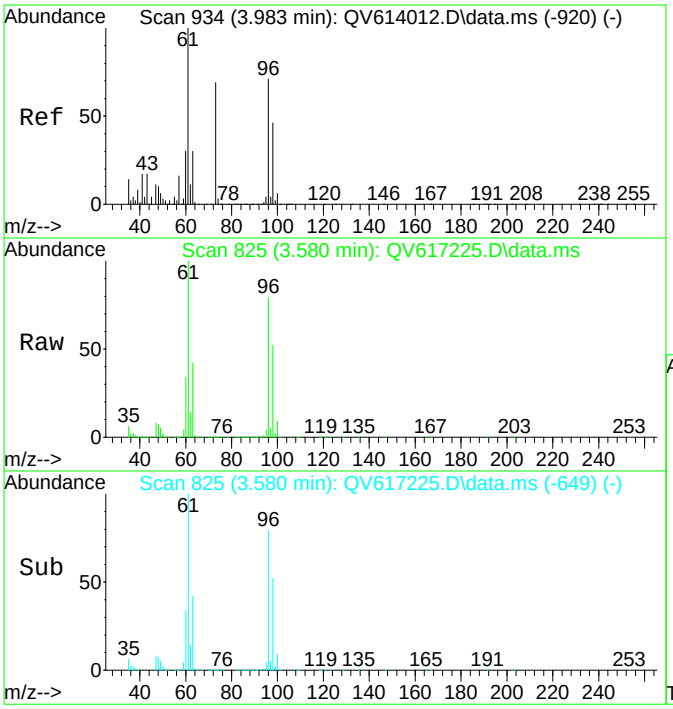


#18
Methylene Chloride
Concen: 0.65 ppb m
RT: 3.313 min Scan# 729
Delta R.T. -0.000 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 49 Resp: 41405

Ion	Ratio	Lower	Upper
49	100		
84	27.2	35.0	72.8#
86	4.3	22.7	47.3#
51	393.2	19.2	39.8#

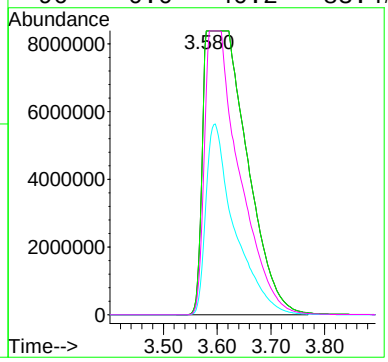


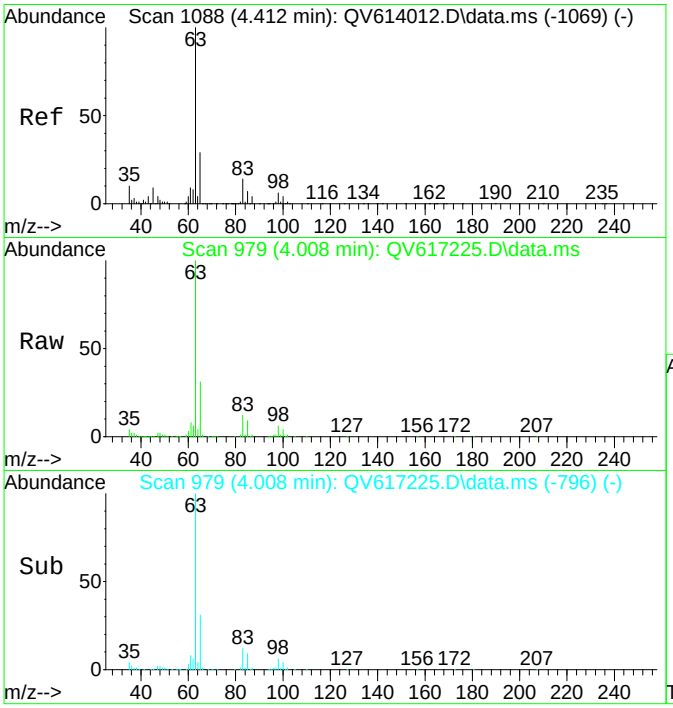


#20
trans-1,2-Dichloroethylene
Concen: 717.17 ppb m
RT: 3.580 min Scan# 825
Delta R.T. -0.011 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 61 Resp:47695996

Ion	Ratio	Lower	Upper
61	100		
61	0.0	65.0	135.0#
63	0.0	20.9	43.3#
96	0.0	40.2	83.4#

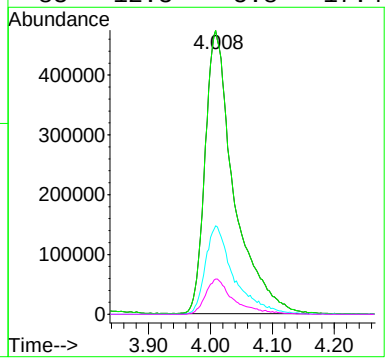


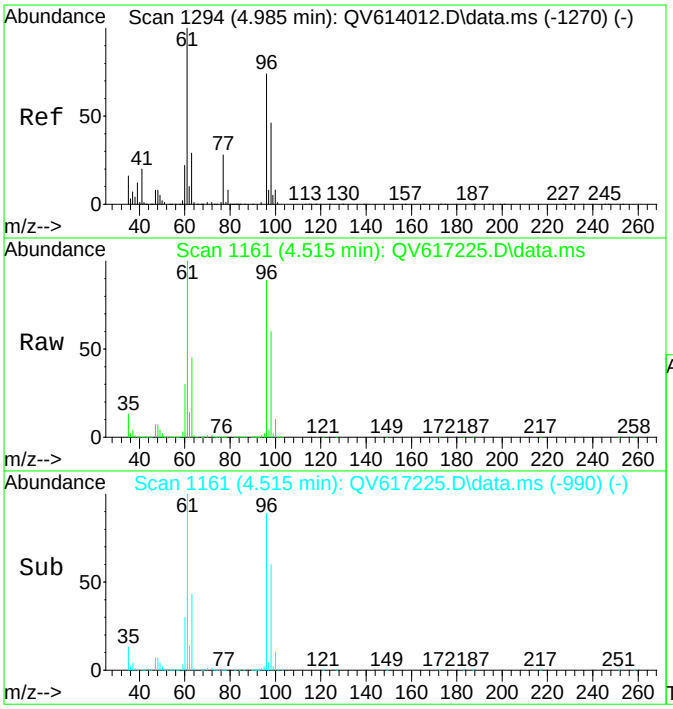


#22
1,1-Dichloroethane
Concen: 17.56 ppb
RT: 4.008 min Scan# 979
Delta R.T. 0.008 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 63 Resp: 1532993

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	31.0	19.4	40.2
83	12.3	5.8	17.4

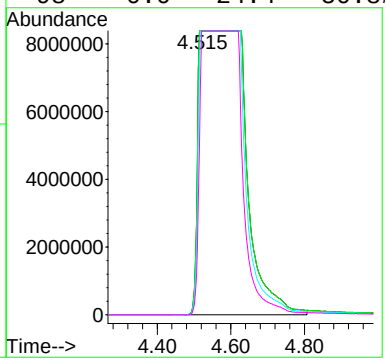


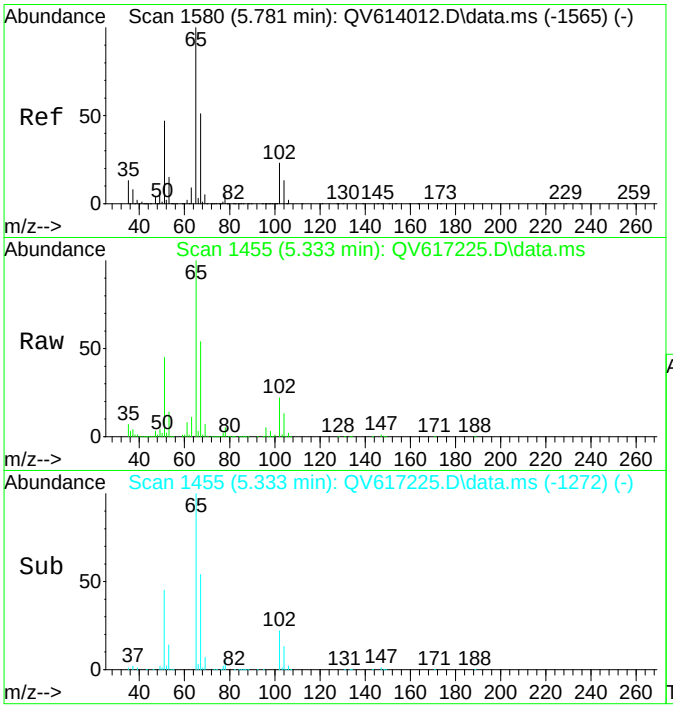


#26
cis-1,2-Dichloroethylene
Concen: 944.81 ppb m
RT: 4.515 min Scan# 1161
Delta R.T. -0.025 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 61 Resp:74683225

Ion	Ratio	Lower	Upper
61	100		
61	0.0	65.0	135.0#
96	0.0	39.2	81.4#
98	0.0	24.4	50.8#

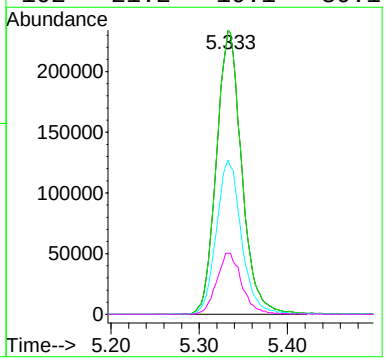


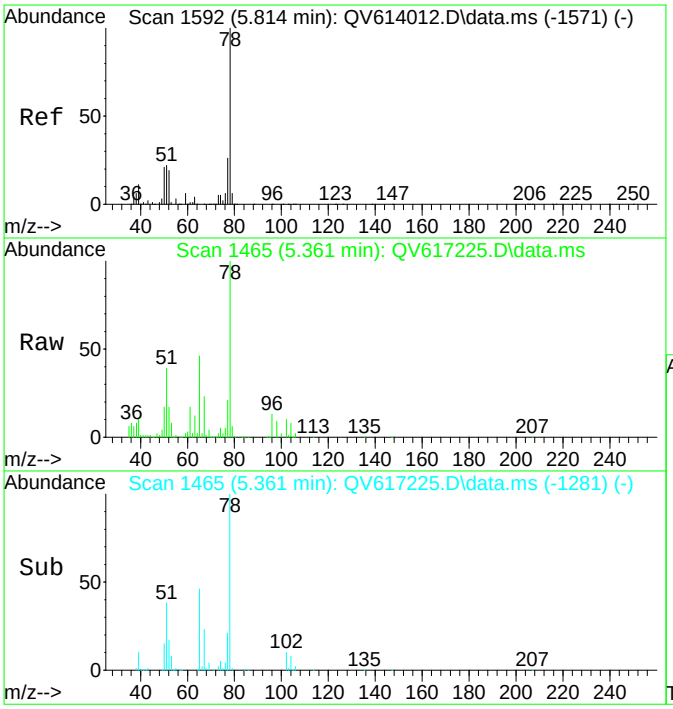


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.90 ppb
RT: 5.333 min Scan# 1455
Delta R.T. 0.009 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 65 Resp: 465514

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	53.6	34.0	70.6
102	21.2	10.1	30.1

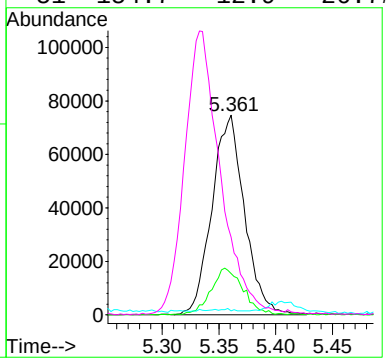


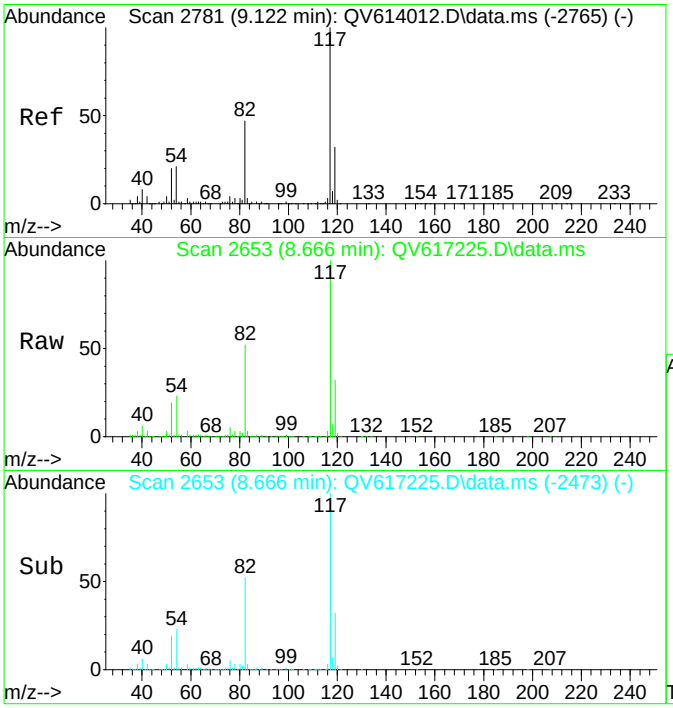


#39
Benzene
Concen: 0.88 ppb
RT: 5.361 min Scan# 1465
Delta R.T. 0.012 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 78 Resp: 149203

Ion	Ratio	Lower	Upper
78	100		
77	22.4	15.7	32.5
62	0.5	22.9	47.5#
51	154.7	12.9	26.7#

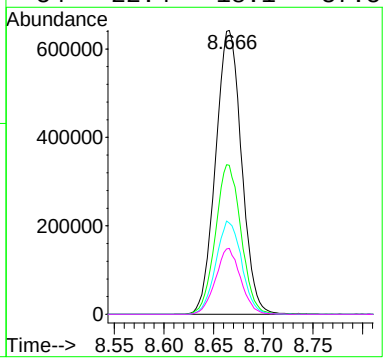


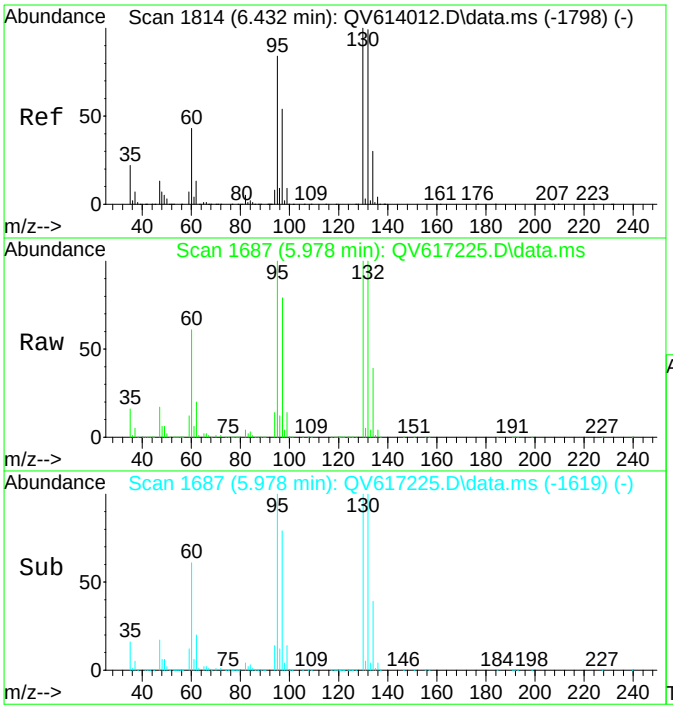


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.666 min Scan# 2653
Delta R.T. -0.000 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion:117 Resp: 1169236

Ion	Ratio	Lower	Upper
117	100		
82	51.9	34.5	71.7
119	32.6	20.9	43.3
54	22.4	18.1	37.5

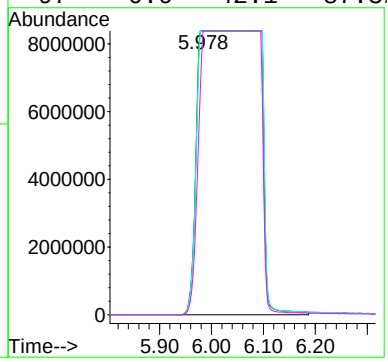


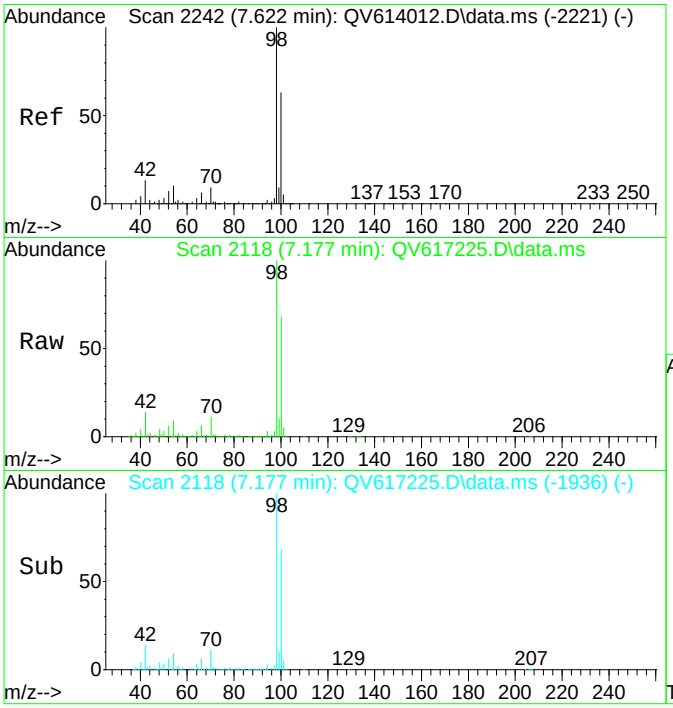


#42
Trichloroethylene
Concen: 1394.03 ppb m
RT: 5.978 min Scan# 1687
Delta R.T. -0.011 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 95 Resp:67984641

Ion	Ratio	Lower	Upper
95	100		
130	0.0	70.0	145.4#
132	0.0	69.6	144.6#
97	0.0	42.1	87.3#

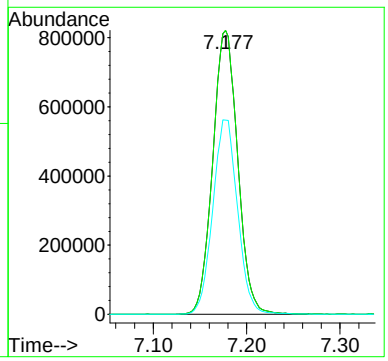


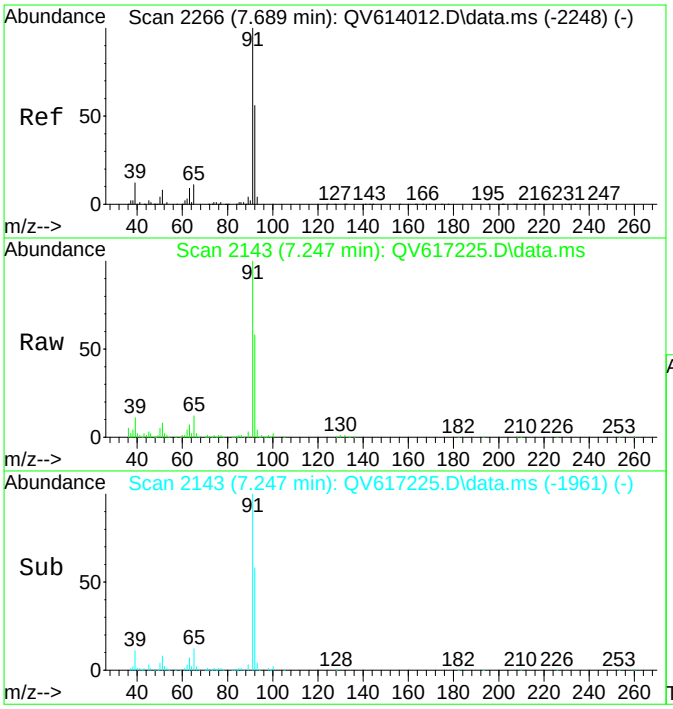


#53
Toluene-d8 (SURR)
Concen: 9.93 ppb
RT: 7.177 min Scan# 2118
Delta R.T. 0.005 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 98 Resp: 1527216

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	68.0	44.2	91.8

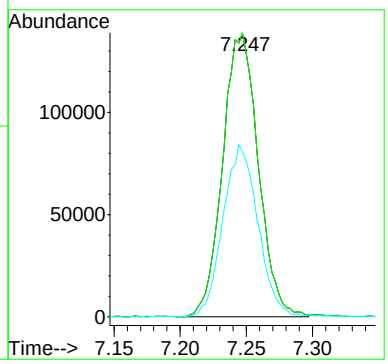


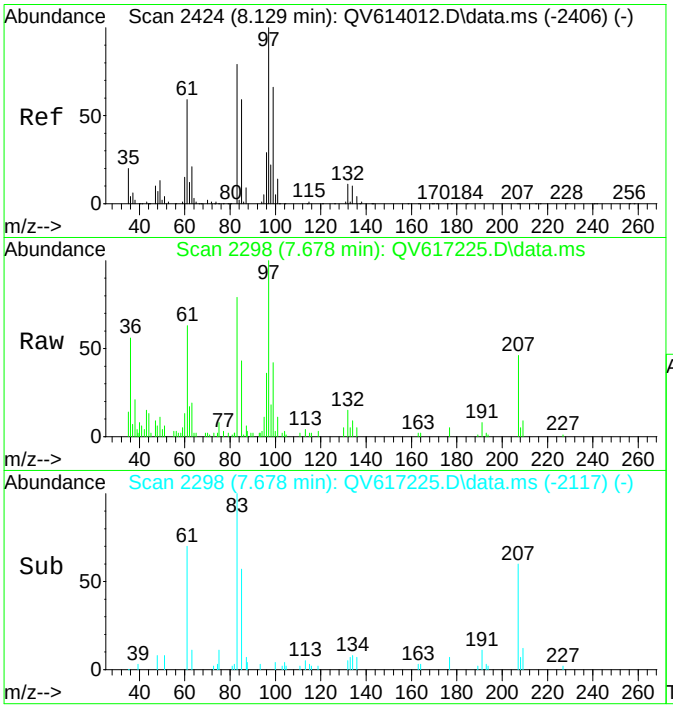


#54
Toluene
Concen: 1.51 ppb
RT: 7.247 min Scan# 2143
Delta R.T. 0.006 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 91 Resp: 260127

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
92	59.4	37.2	77.4

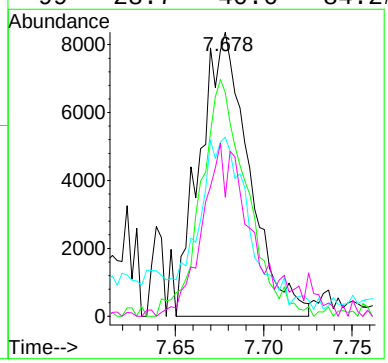


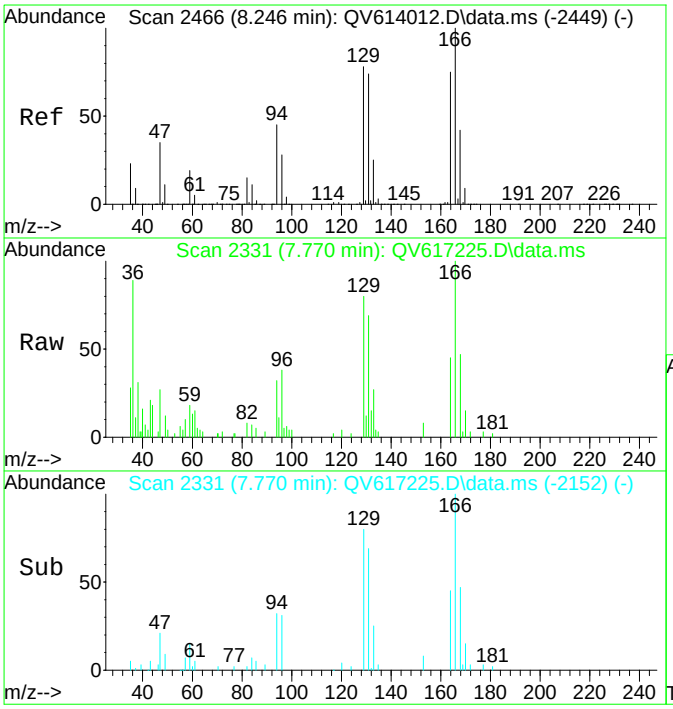


#57
1,1,2-Trichloroethane
Concen: 0.47 ppb
RT: 7.678 min Scan# 2298
Delta R.T. 0.003 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 97 Resp: 16260

Ion	Ratio	Lower	Upper
97	100		
83	77.8	56.3	116.9
61	60.1	47.8	99.4
99	28.7	40.6	84.2#

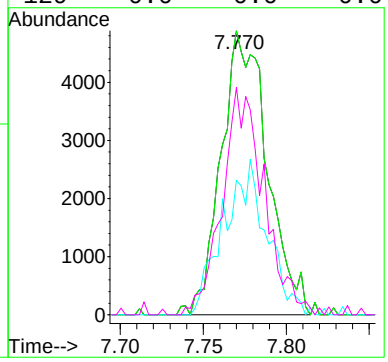


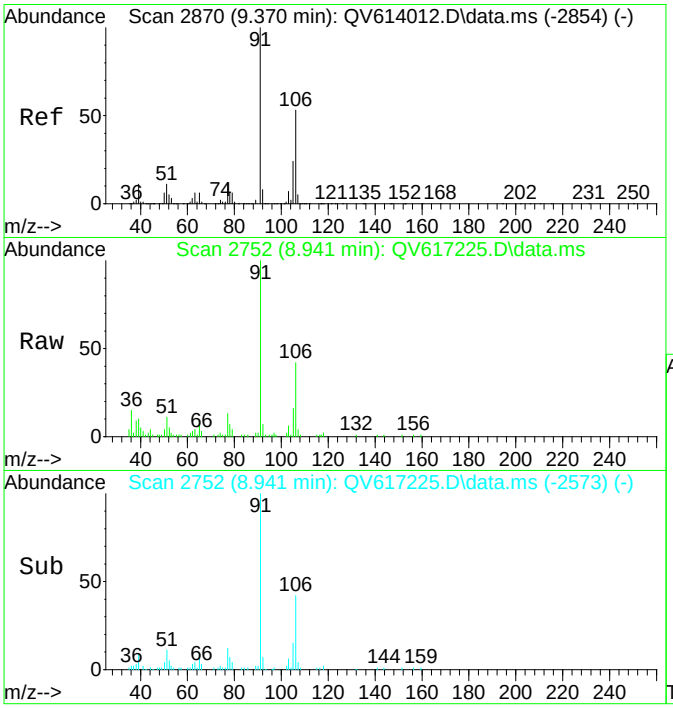


#59
Tetrachloroethylene
Concen: 0.18 ppb m
RT: 7.770 min Scan# 2331
Delta R.T. -0.003 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion:166 Resp: 9470

Ion	Ratio	Lower	Upper
166	100		
166	54.8	65.0	135.0#
168	27.7	31.7	65.7#
129	0.0	0.0	0.0

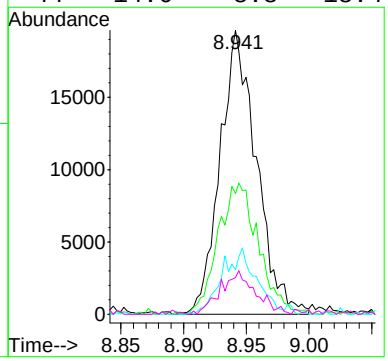


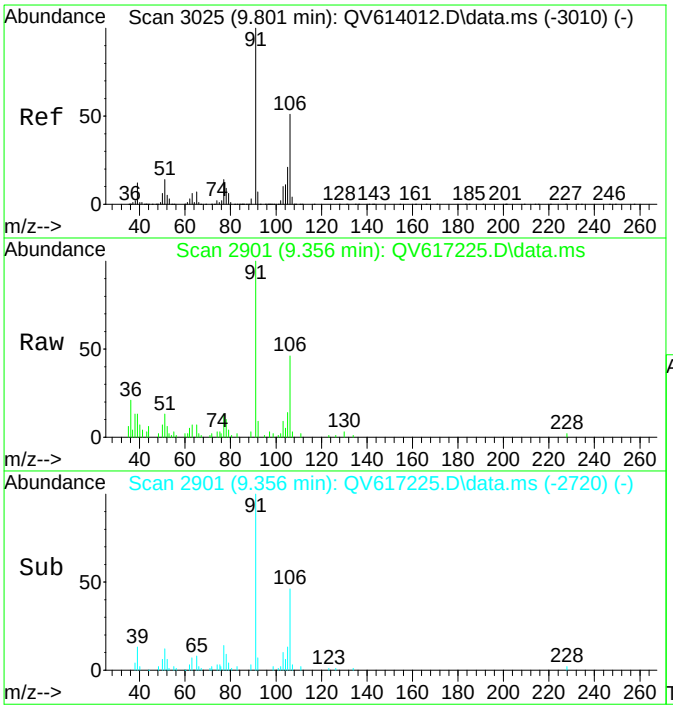


#66
p- & m-Xylenes
Concen: Below Cal
RT: 8.941 min Scan# 2752
Delta R.T. -0.003 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 91 Resp: 39621

Ion	Ratio	Lower	Upper
91	100		
106	51.3	34.1	70.9
105	12.1	16.2	33.6#
77	14.6	8.8	18.4

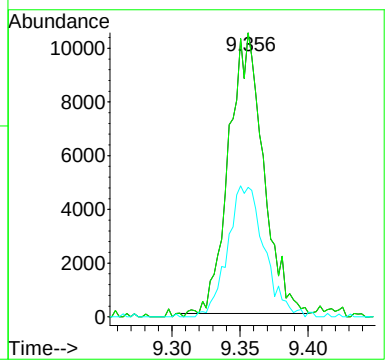


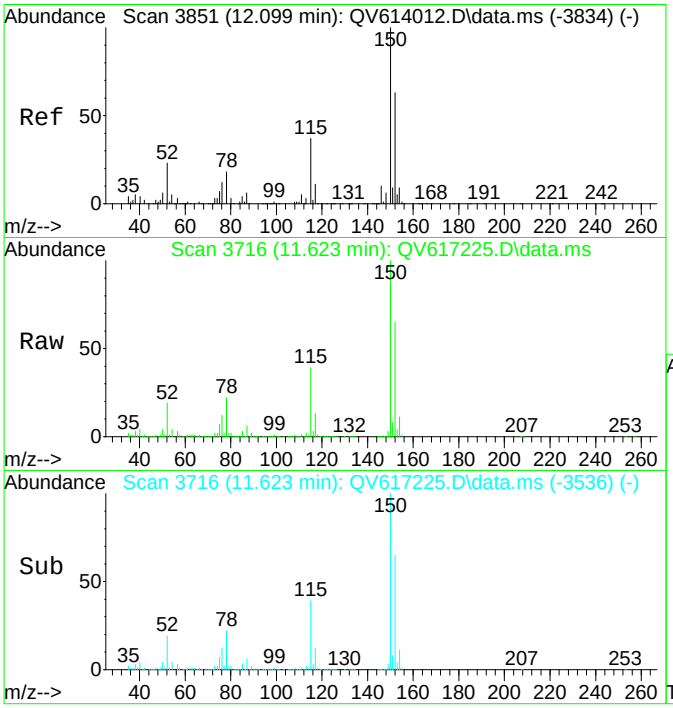


#67
o-Xylene
Concen: 0.13 ppb
RT: 9.356 min Scan# 2901
Delta R.T. 0.003 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 91 Resp: 18403

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
106	49.5	24.3	72.9

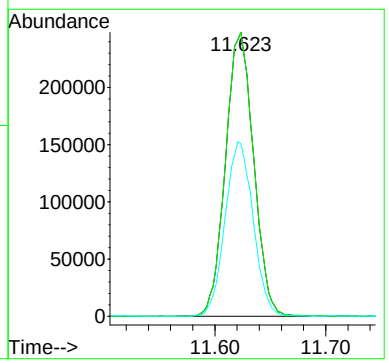


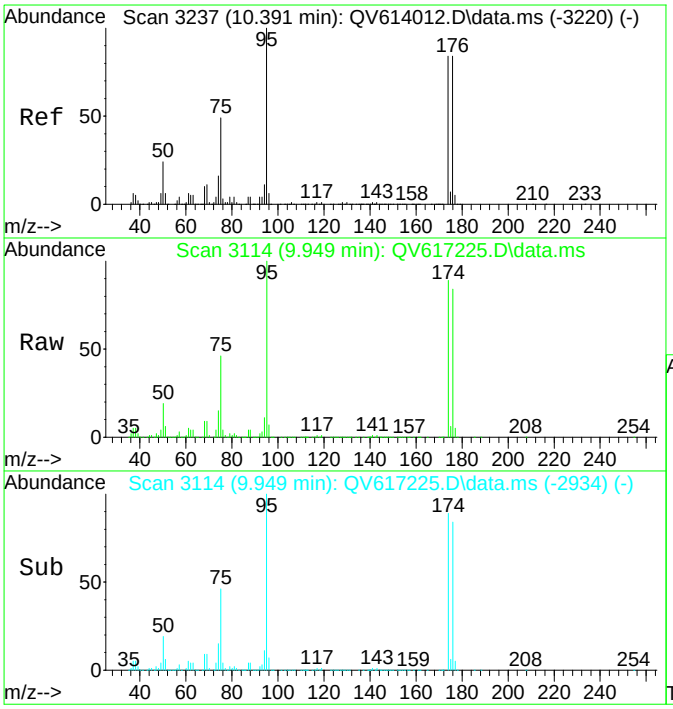


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.623 min Scan# 3716
Delta R.T. 0.000 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion:152 Resp: 437965

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	61.2	29.8	89.3

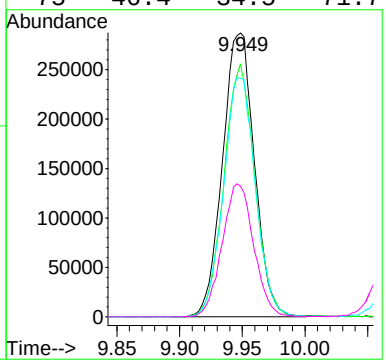


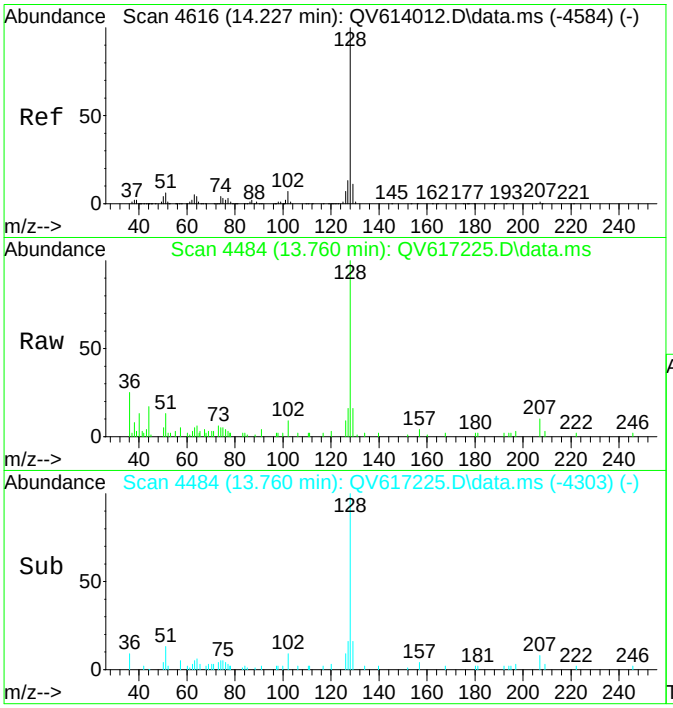


#73
p-Bromofluorobenzene (SURR)
Concen: 9.62 ppb
RT: 9.949 min Scan# 3114
Delta R.T. 0.001 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion: 95 Resp: 508791

Ion	Ratio	Lower	Upper
95	100		
174	86.0	62.5	129.9
176	84.1	60.7	126.1
75	46.4	34.5	71.7

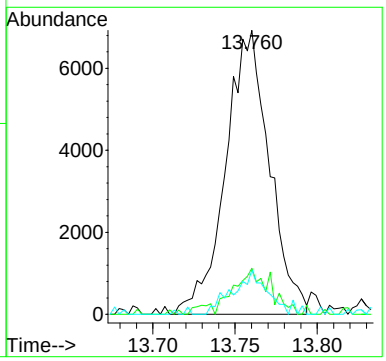




#98
Naphthalene
Concen: Below Cal
RT: 13.760 min Scan# 4484
Delta R.T. 0.003 min
Lab File: QV617225.D
Acq: 1 Nov 2019 3:52 am

Tgt Ion:128 Resp: 12812

Ion	Ratio	Lower	Upper
128	100		
127	13.2	8.9	18.5
129	11.8	7.3	15.3



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-01 1019

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19J1295-01RE1	File ID:	QV908492.D
Sampled:	10/29/19 17:45	Prepared:	10/30/19 06:14	Analyzed:	11/04/19 11:10
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BJ91944	Sequence:	Y9K0412	Calibration:	YJ90016
Instrument:	QVOA9				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-60-5	trans-1,2-Dichloroethylene	100	890	D
75-01-4	Vinyl Chloride	100	4600	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.0	100	69 - 130	D
SURR: Toluene-d8	10.0	10.2	102	81 - 117	D
SURR: p-Bromofluorobenzene	10.0	10.4	104	79 - 122	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	269626	5.865	272735	5.865	
ISTD: Chlorobenzene-d5	991250	8.922	1008143	8.92	
ISTD: 1,2-Dichlorobenzene-d4	232688	11.916	255911	11.919	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908492.D
Acq On : 4 Nov 2019 11:10 am
Operator : LLJ
Sample : 19J1295-01RE1
Misc : QBQV9102519A 8260 C 500UL/50ML
ALS Vial : 9 Sample Multiplier: 100

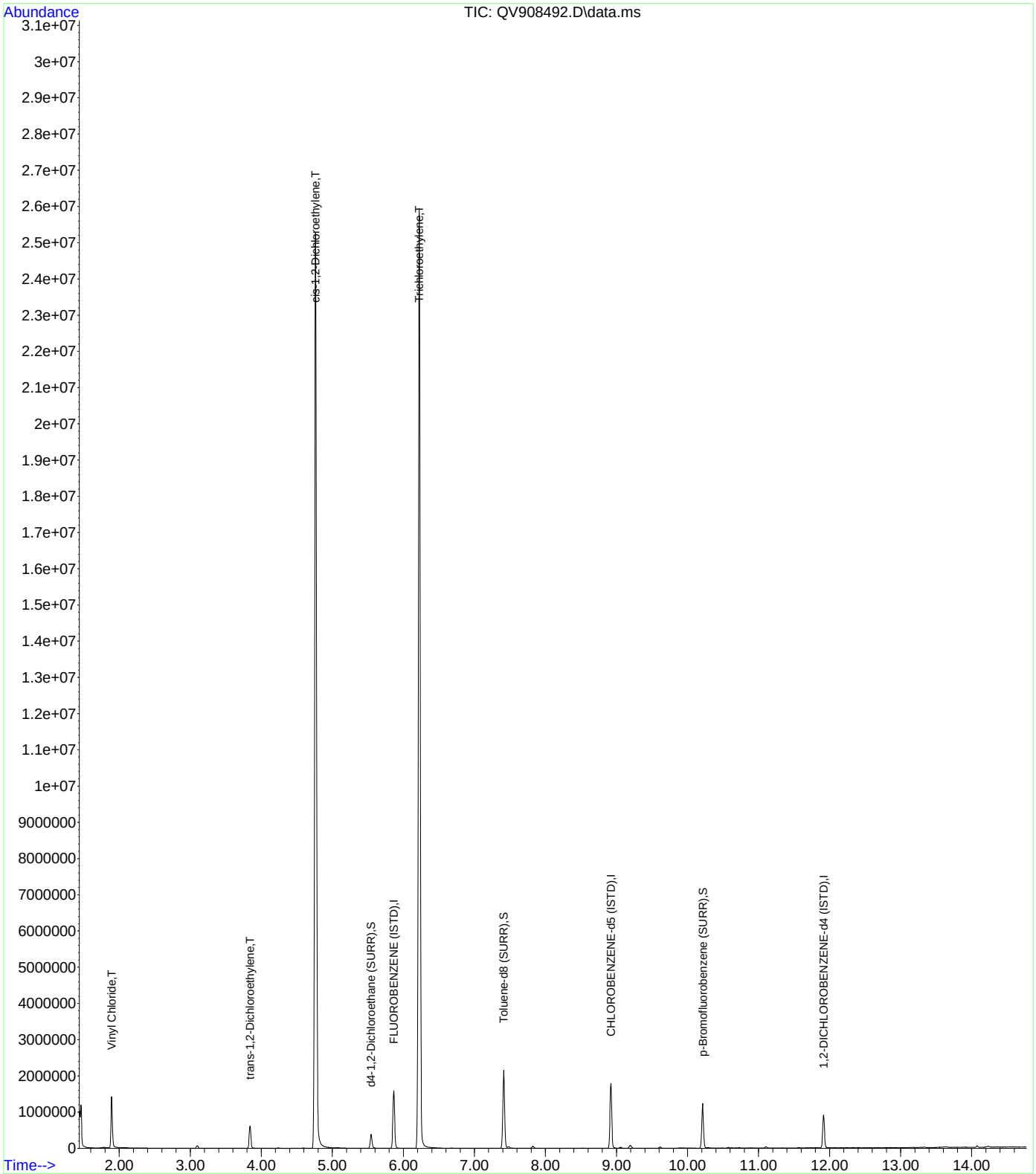
Quant Time: Nov 04 11:32:20 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

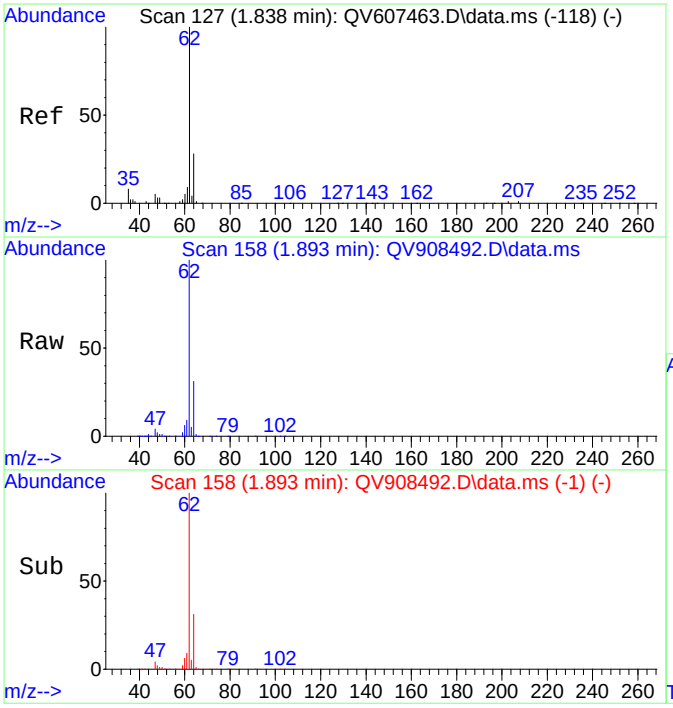
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.865	70	269626	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	8.922	117	991250	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.916	152	232688	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.546	65	268919	10.00	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 100.00%			
51) Toluene-d8 (SURR)	7.411	98	1427562	10.19	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 101.90%			
70) p-Bromofluorobenzene (...	10.213	95	459206	10.44	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 104.40%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.893	62	1250852	46.14	ppb	# 98
19) trans-1,2-Dichloroethy...	3.840	61	338621	8.91	ppb	# 85
25) cis-1,2-Dichloroethylene	4.764	61	14873756	326.62	ppb	# 83
41) Trichloroethylene	6.223	95	8859606	286.46	ppb	# 72

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

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908492.D
Acq On : 4 Nov 2019 11:10 am
Operator : LLJ
Sample : 19J1295-01RE1
Misc : QBQV9102519A 8260 C 500UL/50ML
ALS Vial : 9 Sample Multiplier: 100

Quant Time: Nov 04 11:32:20 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

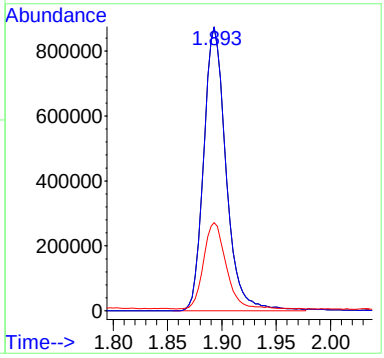


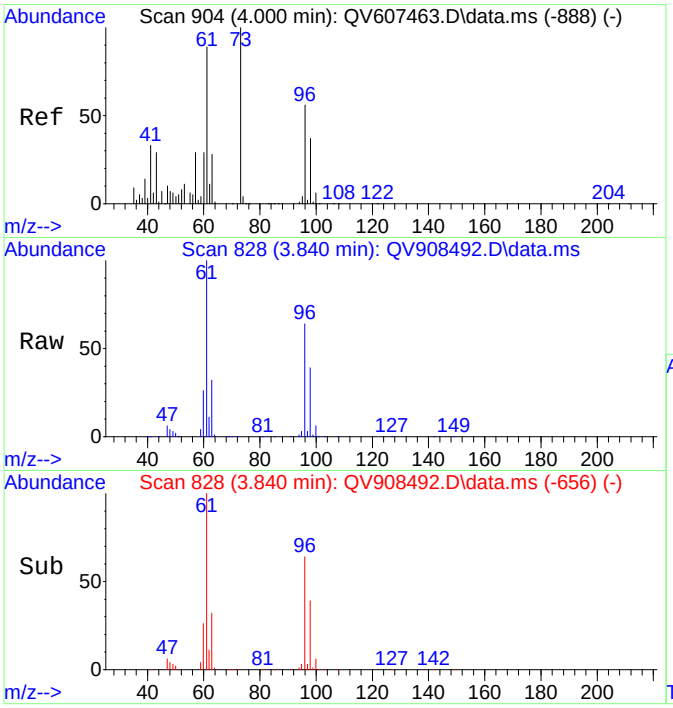


#4
Vinyl Chloride
Concen: 46.14 ppb
RT: 1.893 min Scan# 158
Delta R.T. 0.003 min
Lab File: QV908492.D
Acq: 4 Nov 2019 11:10 am

Tgt Ion: 62 Resp: 1250852

Ion	Ratio	Lower	Upper
62	100		
62	100.0	65.0	135.0
64	30.2	1.3	2.7#

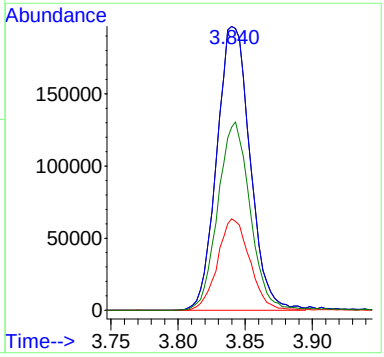


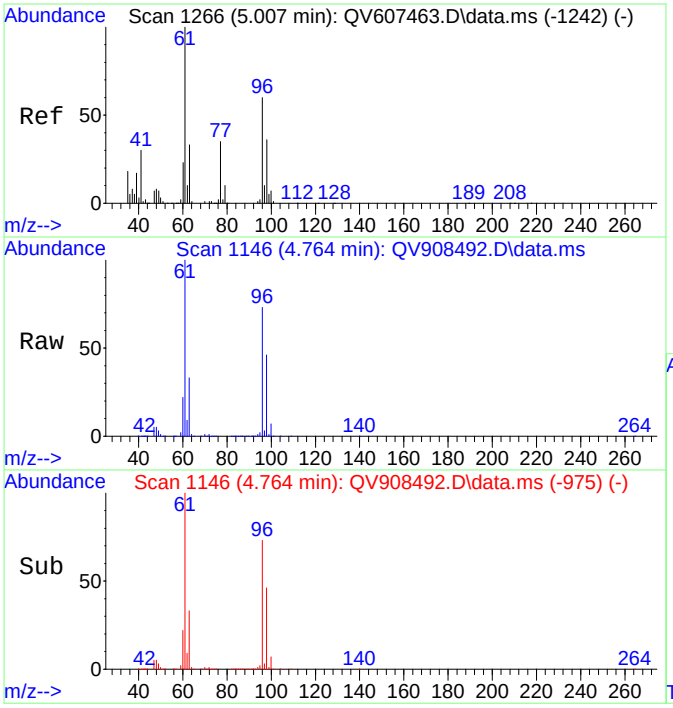


#19
trans-1,2-Dichloroethylene
Concen: 8.91 ppb
RT: 3.840 min Scan# 828
Delta R.T. -0.000 min
Lab File: QV908492.D
Acq: 4 Nov 2019 11:10 am

Tgt Ion: 61 Resp: 338621

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	31.3	0.0	0.0#
96	64.2	17.4	36.0#

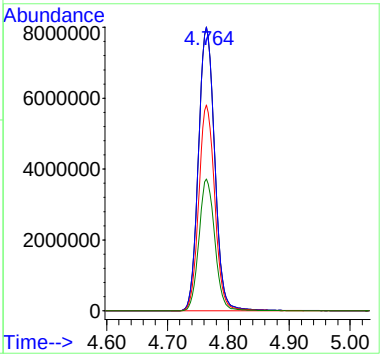


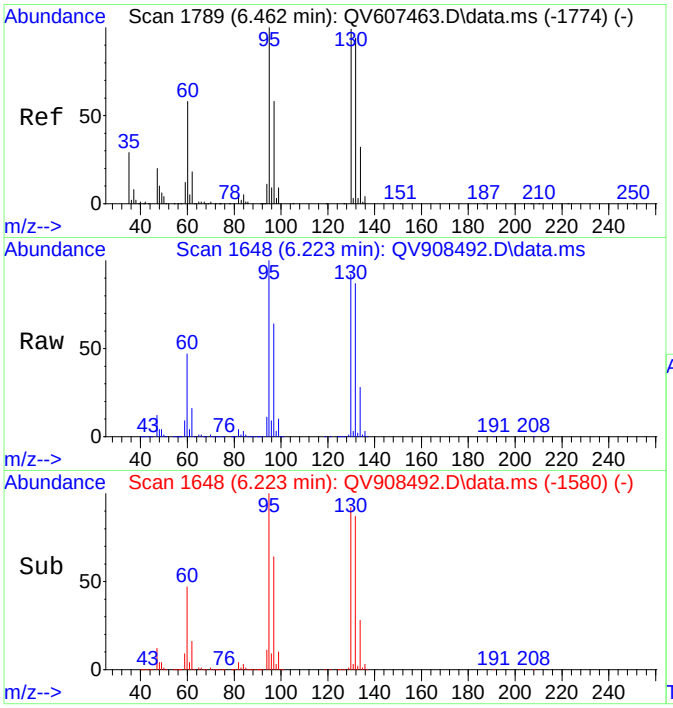


#25
cis-1,2-Dichloroethylene
Concen: 326.62 ppb
RT: 4.764 min Scan# 1146
Delta R.T. -0.003 min
Lab File: QV908492.D
Acq: 4 Nov 2019 11:10 am

Tgt Ion: 61 Resp:14873756

Ion	Ratio	Lower	Upper
61	100		
61	100.0	58.6	121.6
96	71.4	0.0	0.0#
98	45.5	17.2	35.6#

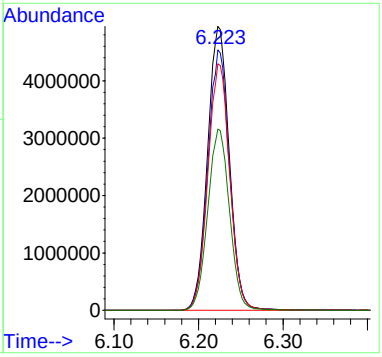




#41
Trichloroethylene
Concen: 286.46 ppb
RT: 6.223 min Scan# 1648
Delta R.T. -0.003 min
Lab File: QV908492.D
Acq: 4 Nov 2019 11:10 am

Tgt Ion: 95 Resp: 8859606

Ion	Ratio	Lower	Upper
95	100		
130	91.5	76.1	158.1
132	87.2	74.4	154.4
97	64.0	22.2	46.2#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-01 1019

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19J1295-01RE2	File ID:	QV908495.D
Sampled:	10/29/19 17:45	Prepared:	10/30/19 06:14	Analyzed:	11/04/19 12:32
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BJ91944	Sequence:	Y9K0412	Calibration:	YJ90016
Instrument:	QVOA9				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	1000	32000	D
79-01-6	Trichloroethylene	1000	26000	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.0	100	69 - 130	D
SURR: Toluene-d8	10.0	9.61	96.1	81 - 117	D
SURR: p-Bromofluorobenzene	10.0	10.3	103	79 - 122	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	276532	5.863	272735	5.865	
ISTD: Chlorobenzene-d5	1043225	8.923	1008143	8.92	
ISTD: 1,2-Dichlorobenzene-d4	252372	11.919	255911	11.919	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908495.D
Acq On : 4 Nov 2019 12:32 pm
Operator : LLJ
Sample : 19J1295-01RE2
Misc : QBQV9102519A 8260 C 50UL/50ML
ALS Vial : 12 Sample Multiplier: 1000

Quant Time: Nov 04 12:58:01 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

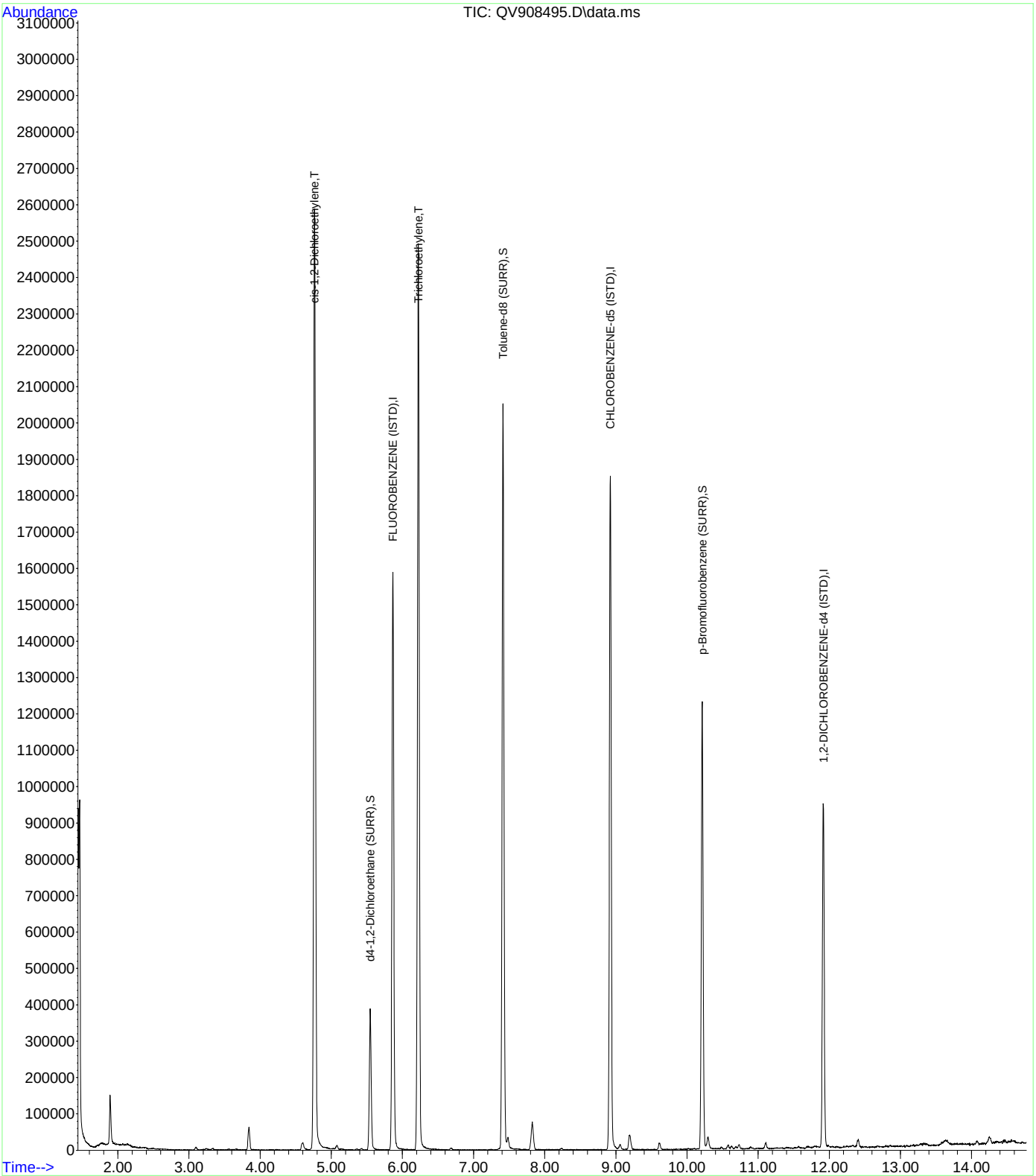
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.863	70	276532	10.00	ppb	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.923	117	1043225	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.919	152	252372	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.549	65	275903	10.01	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 100.10%			
51) Toluene-d8 (SURR)	7.414	98	1415672	9.61	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 96.10%			
70) p-Bromofluorobenzene (...	10.213	95	489544	10.26	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 102.60%			
Target Compounds						Qvalue
25) cis-1,2-Dichloroethylene	4.764	61	1503888	32.20	ppb	# 83
41) Trichloroethylene	6.226	95	843765	25.92	ppb	# 73

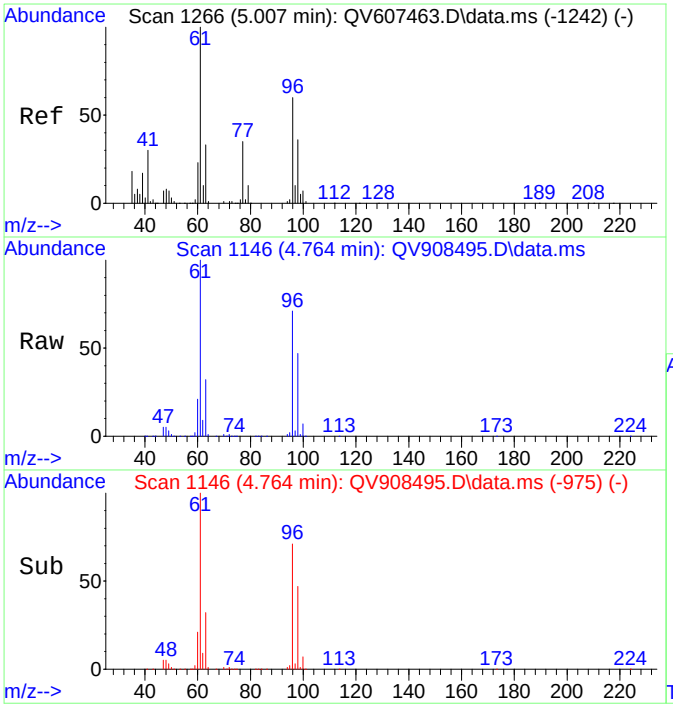
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908495.D
Acq On : 4 Nov 2019 12:32 pm
Operator : LLJ
Sample : 19J1295-01RE2
Misc : QBQV9102519A 8260 C 50UL/50ML
ALS Vial : 12 Sample Multiplier: 1000

Quant Time: Nov 04 12:58:01 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

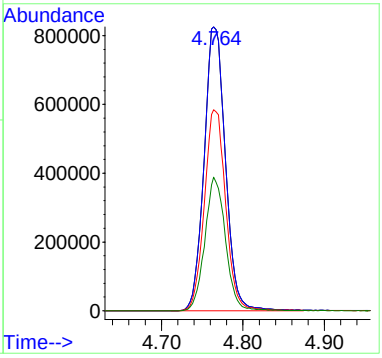


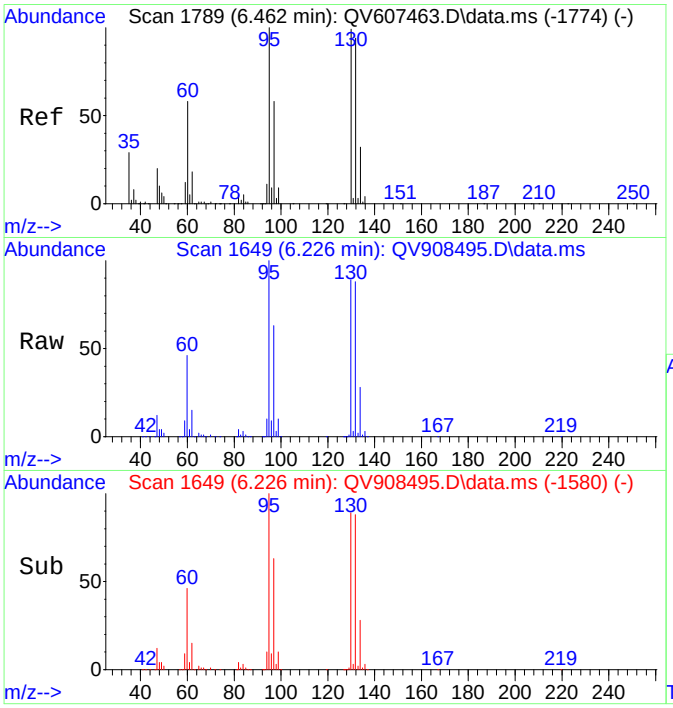


#25
cis-1,2-Dichloroethylene
Concen: 32.20 ppb
RT: 4.764 min Scan# 1146
Delta R.T. -0.003 min
Lab File: QV908495.D
Acq: 4 Nov 2019 12:32 pm

Tgt Ion: 61 Resp: 1503888

Ion	Ratio	Lower	Upper
61	100		
61	100.0	58.6	121.6
96	70.7	0.0	0.0#
98	45.4	17.2	35.6#

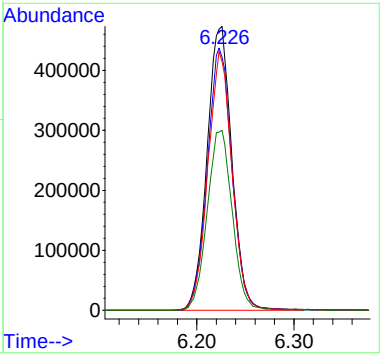




#41
Trichloroethylene
Concen: 25.92 ppb
RT: 6.226 min Scan# 1649
Delta R.T. -0.000 min
Lab File: QV908495.D
Acq: 4 Nov 2019 12:32 pm

Tgt Ion: 95 Resp: 843765

Ion	Ratio	Lower	Upper
95	100		
130	91.5	76.1	158.1
132	88.1	74.4	154.4
97	63.9	22.2	46.2#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-02 1019

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19J1295-02	File ID:	QV617226.D
Sampled:	10/29/19 15:19	Prepared:	10/30/19 06:14	Analyzed:	11/01/19 04:19
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BJ91821	Sequence:	Y9K0408	Calibration:	YJ90014
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	4.0	
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	34	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-02 1019

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19J1295-02	File ID:	QV617226.D
Sampled:	10/29/19 15:19	Prepared:	10/30/19 06:14	Analyzed:	11/01/19 04:19
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BJ91821	Sequence:	Y9K0408	Calibration:	YJ90014
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.39	J
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.23	J
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	2.3	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	40	
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	9.6	
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.87	98.7	69 - 130	
SURR: Toluene-d8	10.0	9.90	99.0	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.32	93.2	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	334247	5.633	314424	5.633	
ISTD: Chlorobenzene-d5	1187520	8.663	1165318	8.663	
ISTD: 1,2-Dichlorobenzene-d4	463178	11.623	436278	11.621	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617226.D
Acq On : 1 Nov 2019 4:19 am
InstName : MSVOA6
Operator : LLJ
Sample : 19J1295-02
Misc : QBQV6103119B 8260 B
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 04 10:27:09 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration

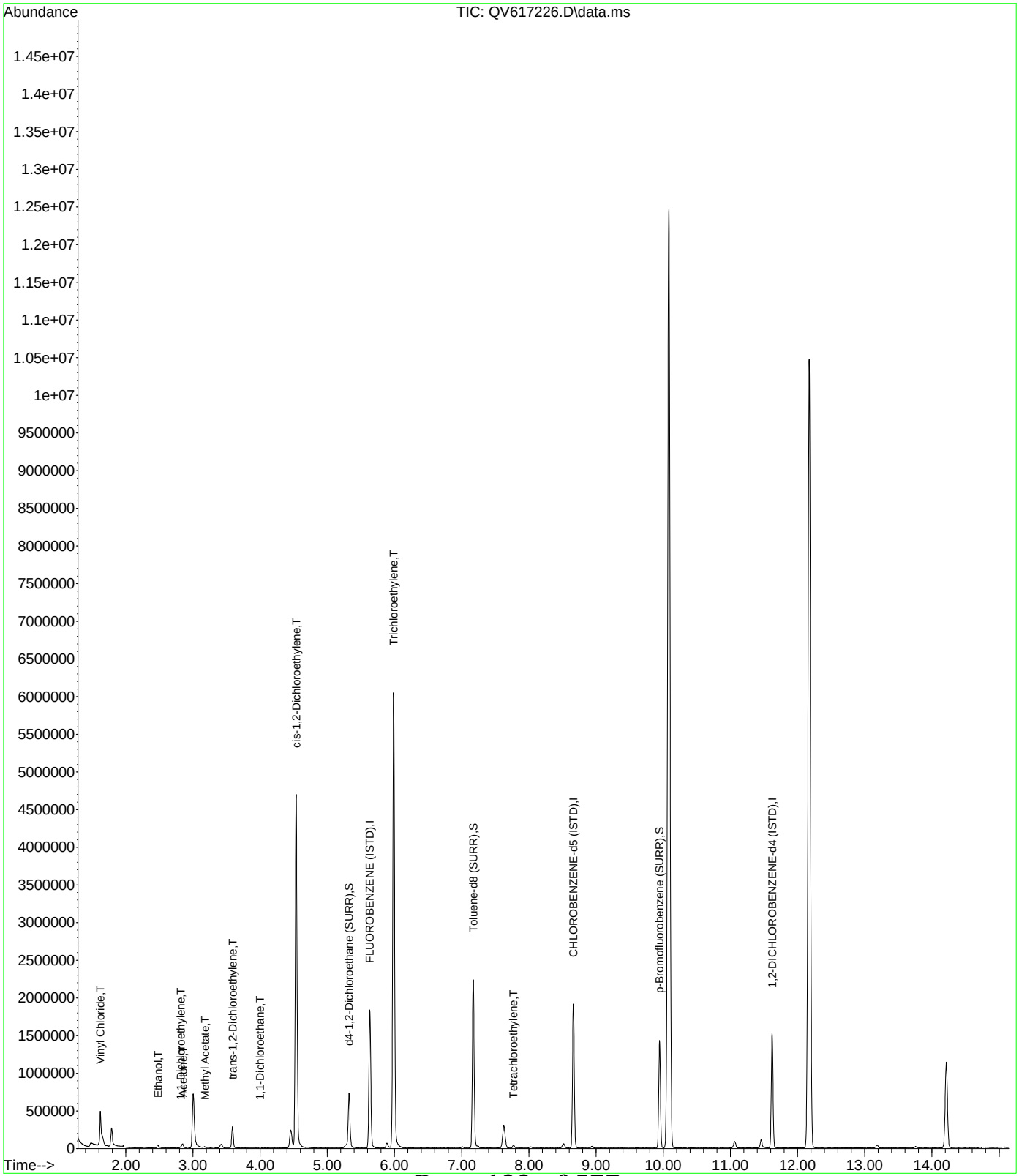
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.633	70	334247	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.663	117	1187520	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.623	152	463178	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.324	65	456693	9.87	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 98.70%				
53) Toluene-d8 (SURR)	7.172	98	1545983	9.90	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 99.00%				
73) p-Bromofluorobenzene (...	9.946	95	521444	9.32	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 93.20%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.621	62	435178	9.59	ppb	#	53
8) Ethanol	2.478	45	48852	169.46	ppb	#	1
10) 1,1-Dichloroethylene	2.820	61	8764	0.13	ppb	#	59
12) Acetone	2.848	43	63967	4.01	ppb	#	95
15) Methyl Acetate	3.179	43	10911	0.39	ppb		98
20) trans-1,2-Dichloroethy...	3.588	61	150185	2.29	ppb		98
22) 1,1-Dichloroethane	4.000	63	12756	0.15	ppb	#	97
26) cis-1,2-Dichloroethylene	4.537	61	2647451	34.04	ppb		92
42) Trichloroethylene	5.987	95	1976644	39.91	ppb		98
59) Tetrachloroethylene	7.770	166	12492	0.23	ppb	#	77
66) p- & m-Xylenes	8.936	91	7735	Below Cal		#	41
98) Naphthalene	13.757	128	14046	Below Cal		#	86

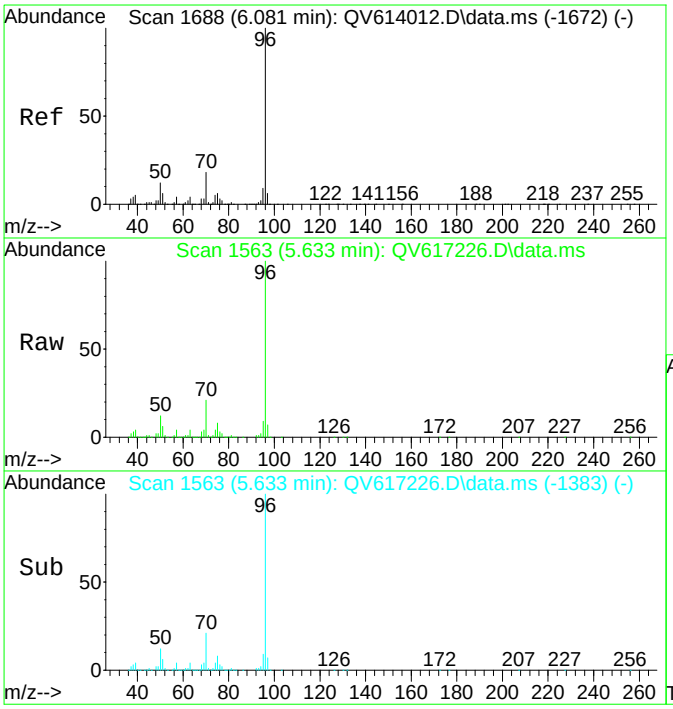
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617226.D
Acq On : 1 Nov 2019 4:19 am
InstName : MSVOA6
Operator : LLJ
Sample : 19J1295-02
Misc : QBQV6103119B 8260 B
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 04 10:27:09 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration

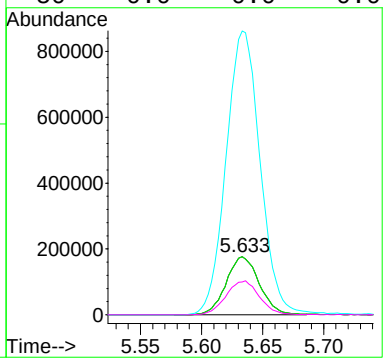


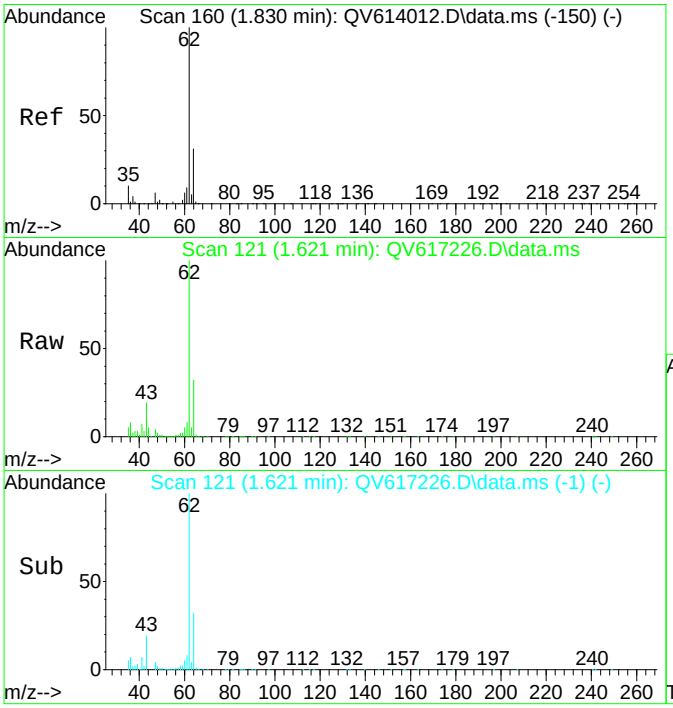


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.633 min Scan# 1563
Delta R.T. 0.000 min
Lab File: QV617226.D
Acq: 1 Nov 2019 4:19 am

Tgt Ion: 70 Resp: 334247

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	0.0	341.1	708.3#
50	0.0	0.0	0.0

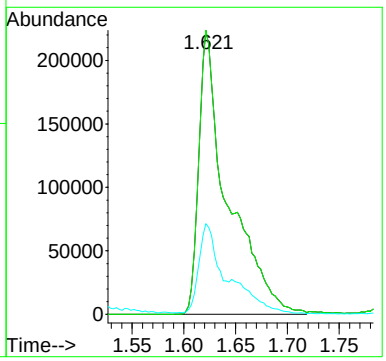


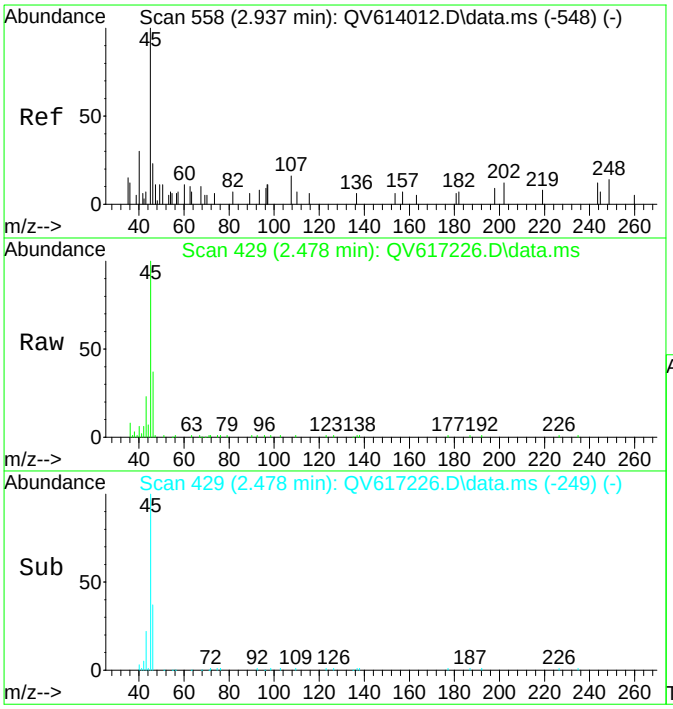


#4
Vinyl Chloride
Concen: 9.59 ppb
RT: 1.621 min Scan# 121
Delta R.T. 0.000 min
Lab File: QV617226.D
Acq: 1 Nov 2019 4:19 am

Tgt Ion: 62 Resp: 435178

Ion	Ratio	Lower	Upper
62	100		
62	100.0	36.0	74.8#
64	21.0	12.5	25.9

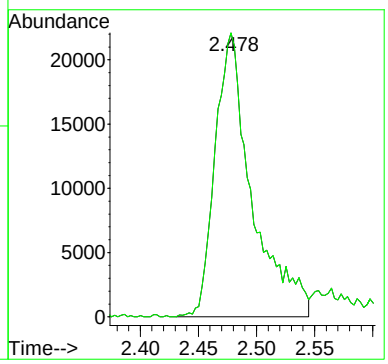


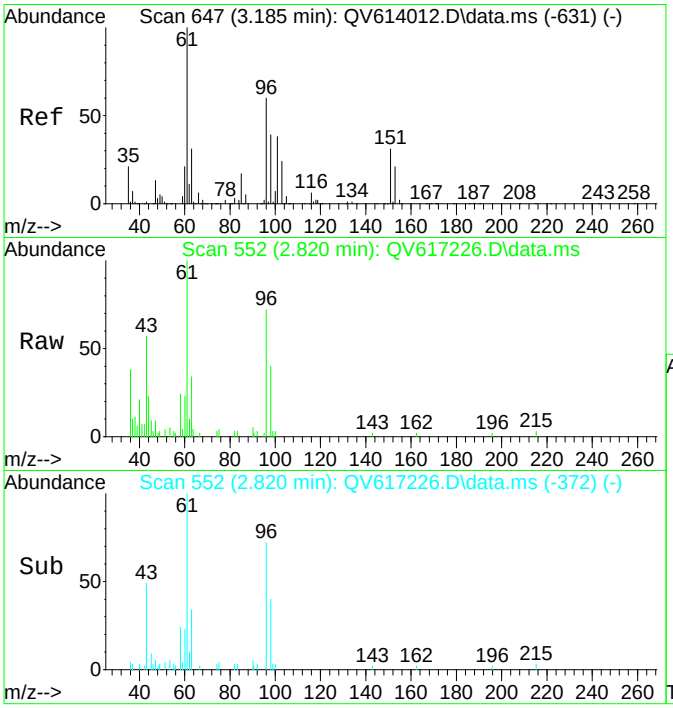


#8
Ethanol
Concen: 169.46 ppb
RT: 2.478 min Scan# 429
Delta R.T. 0.000 min
Lab File: QV617226.D
Acq: 1 Nov 2019 4:19 am

Tgt Ion: 45 Resp: 48852

Ion	Ratio	Lower	Upper
45	100		
45	100.0	16.3	48.9#

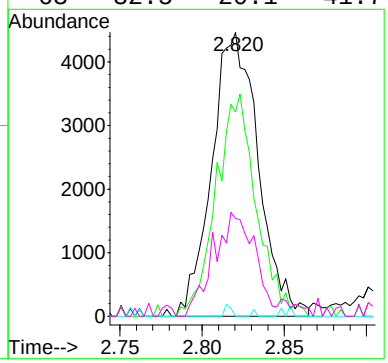


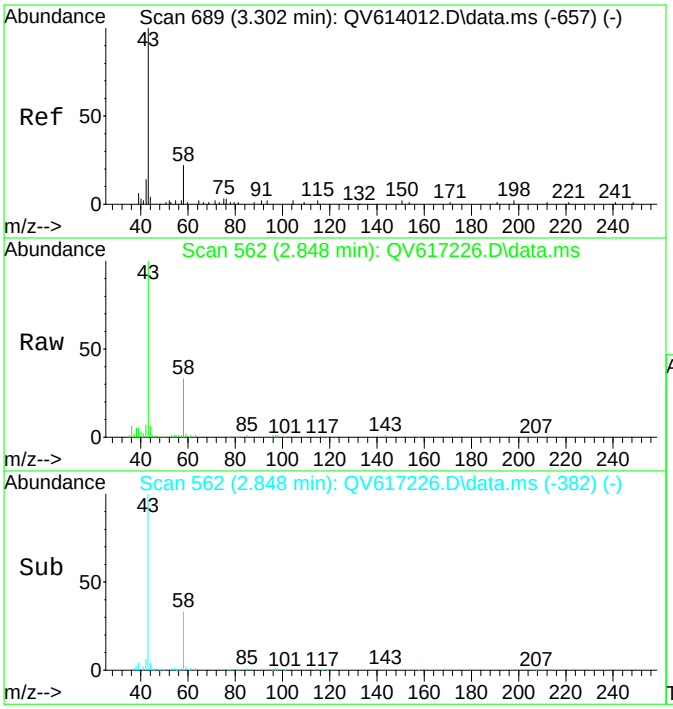


#10
1,1-Dichloroethylene
Concen: 0.13 ppb
RT: 2.820 min Scan# 552
Delta R.T. 0.000 min
Lab File: QV617226.D
Acq: 1 Nov 2019 4:19 am

Tgt Ion: 61 Resp: 8764

Ion	Ratio	Lower	Upper
61	100		
96	68.3	33.6	69.8
101	0.6	37.0	77.0#
63	32.5	20.1	41.7

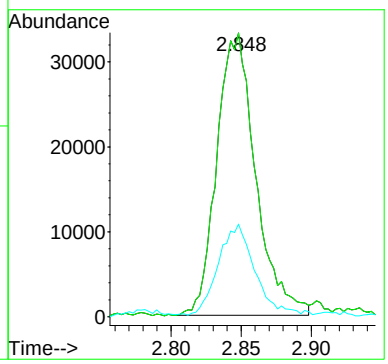


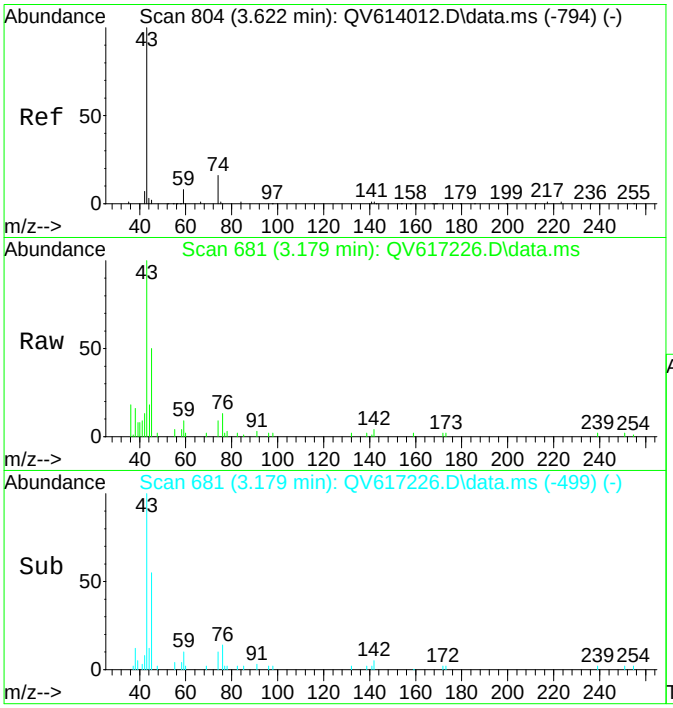


#12
Acetone
Concen: 4.01 ppb
RT: 2.848 min Scan# 562
Delta R.T. 0.000 min
Lab File: QV617226.D
Acq: 1 Nov 2019 4:19 am

Tgt Ion: 43 Resp: 63967

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	29.9	6.0	18.1#

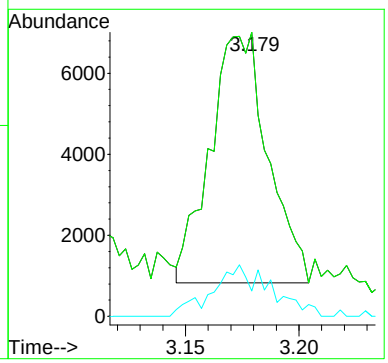


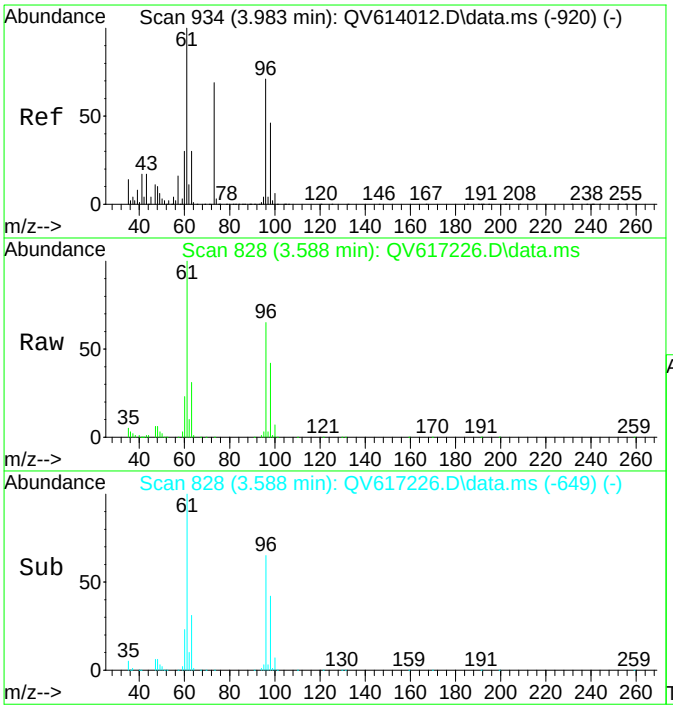


#15
Methyl Acetate
Concen: 0.39 ppb
RT: 3.179 min Scan# 681
Delta R.T. 0.005 min
Lab File: QV617226.D
Acq: 1 Nov 2019 4:19 am

Tgt Ion: 43 Resp: 10911

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
74	8.3	7.3	22.0

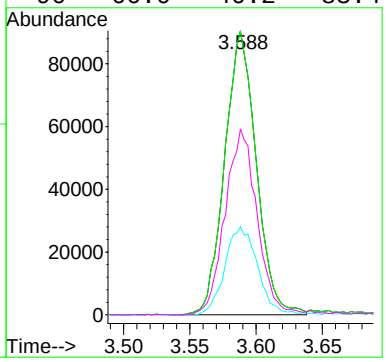


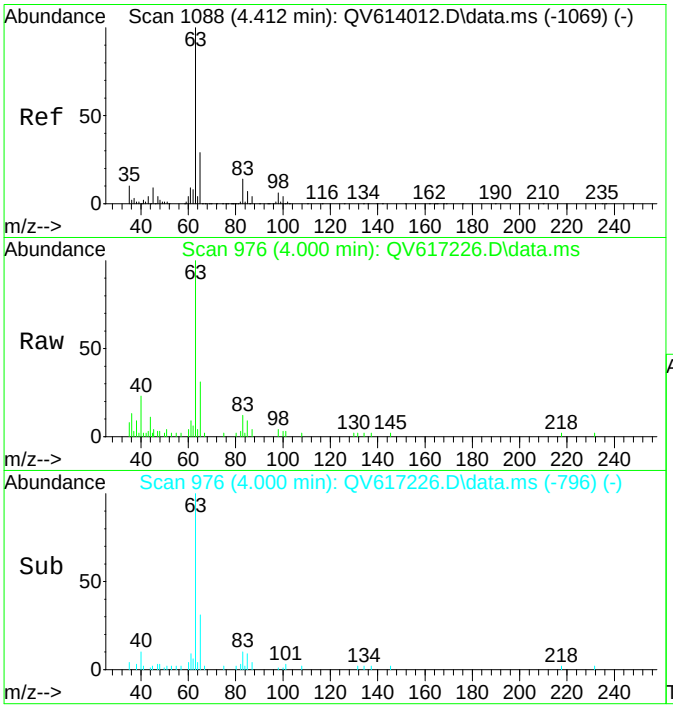


#20
trans-1,2-Dichloroethylene
Concen: 2.29 ppb
RT: 3.588 min Scan# 828
Delta R.T. -0.003 min
Lab File: QV617226.D
Acq: 1 Nov 2019 4:19 am

Tgt Ion: 61 Resp: 150185

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	32.1	20.9	43.3
96	66.0	40.2	83.4

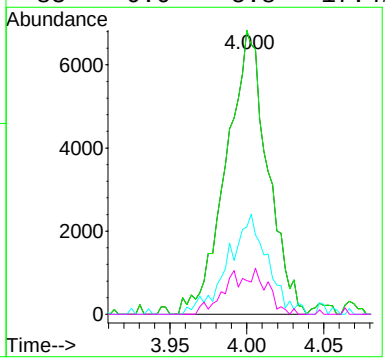


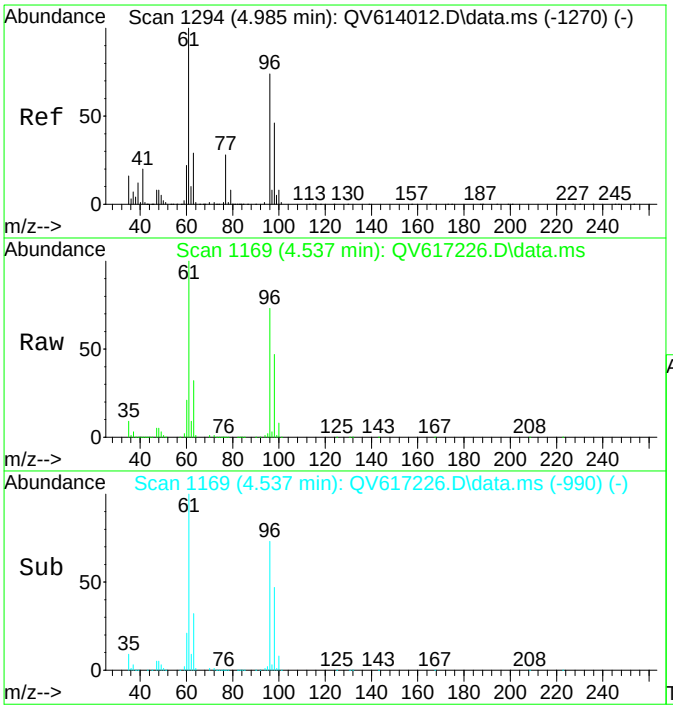


#22
1,1-Dichloroethane
Concen: 0.15 ppb
RT: 4.000 min Scan# 976
Delta R.T. 0.000 min
Lab File: QV617226.D
Acq: 1 Nov 2019 4:19 am

Tgt Ion: 63 Resp: 12756

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	32.1	19.4	40.2
83	0.0	5.8	17.4#

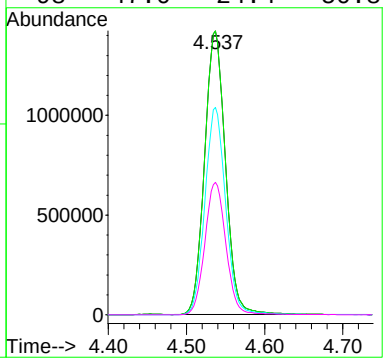


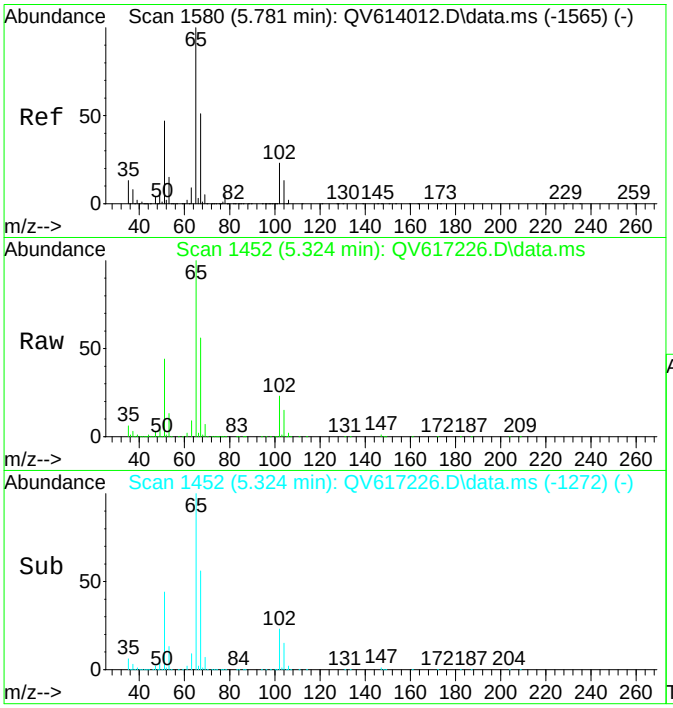


#26
cis-1,2-Dichloroethylene
Concen: 34.04 ppb
RT: 4.537 min Scan# 1169
Delta R.T. -0.003 min
Lab File: QV617226.D
Acq: 1 Nov 2019 4:19 am

Tgt Ion: 61 Resp: 2647451

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	72.9	39.2	81.4
98	47.0	24.4	50.8

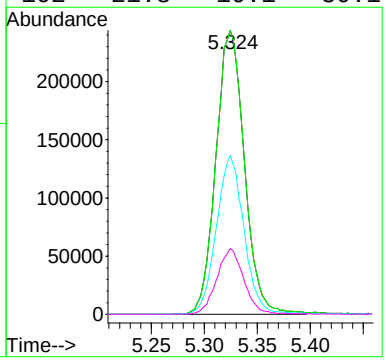


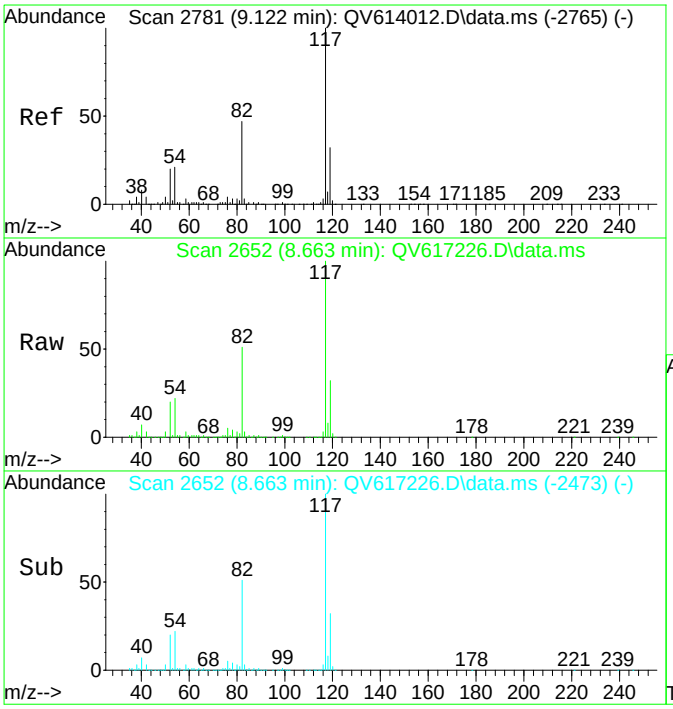


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.87 ppb
RT: 5.324 min Scan# 1452
Delta R.T. 0.000 min
Lab File: QV617226.D
Acq: 1 Nov 2019 4:19 am

Tgt Ion: 65 Resp: 456693

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	54.1	34.0	70.6
102	21.8	10.1	30.1

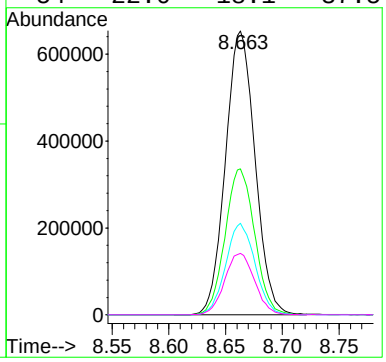


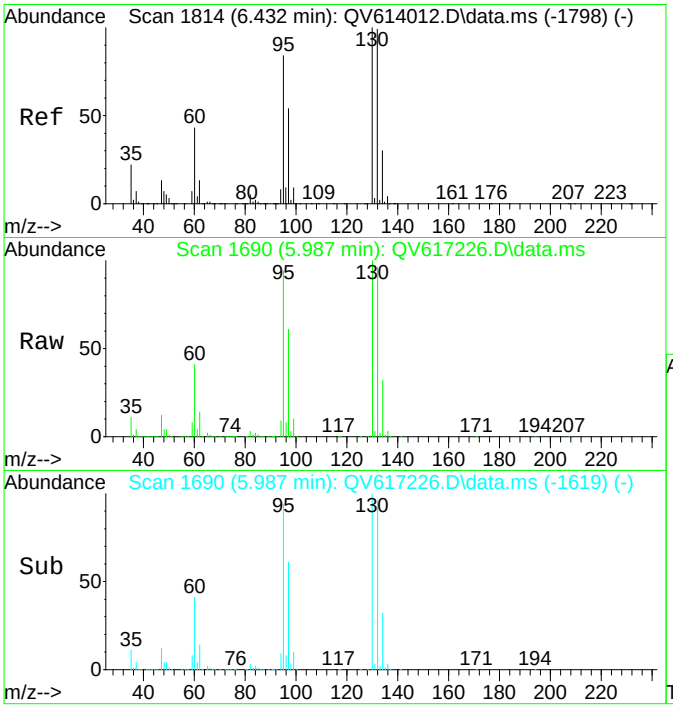


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.663 min Scan# 2652
Delta R.T. -0.003 min
Lab File: QV617226.D
Acq: 1 Nov 2019 4:19 am

Tgt Ion:117 Resp: 1187520

Ion	Ratio	Lower	Upper
117	100		
82	51.5	34.5	71.7
119	32.0	20.9	43.3
54	22.0	18.1	37.5

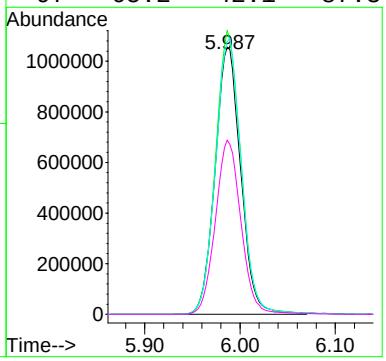


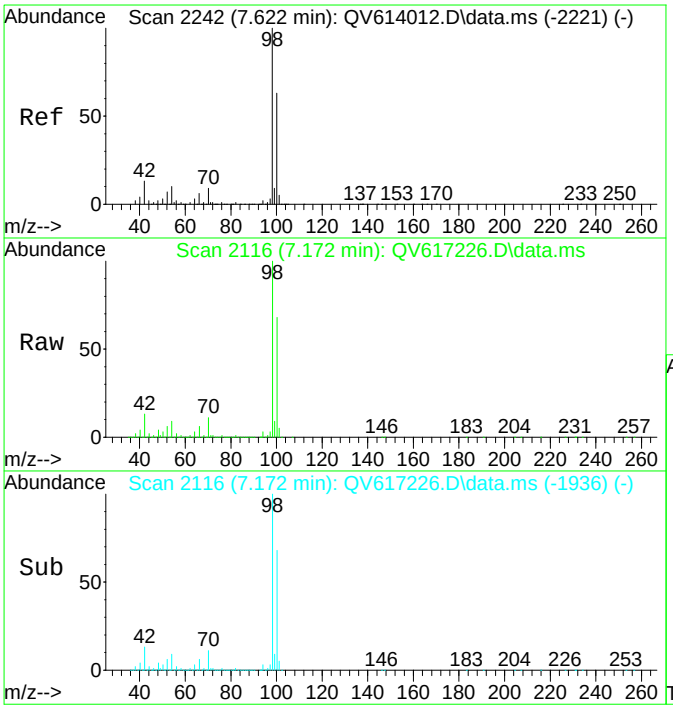


#42
Trichloroethylene
Concen: 39.91 ppb
RT: 5.987 min Scan# 1690
Delta R.T. -0.002 min
Lab File: QV617226.D
Acq: 1 Nov 2019 4:19 am

Tgt Ion: 95 Resp: 1976644

Ion	Ratio	Lower	Upper
95	100		
130	105.5	70.0	145.4
132	103.7	69.6	144.6
97	65.2	42.1	87.3

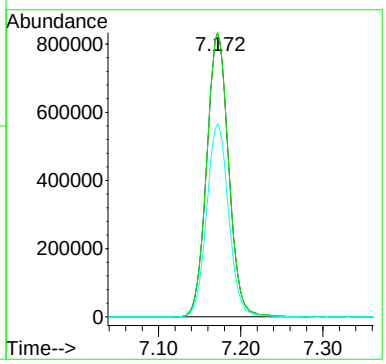


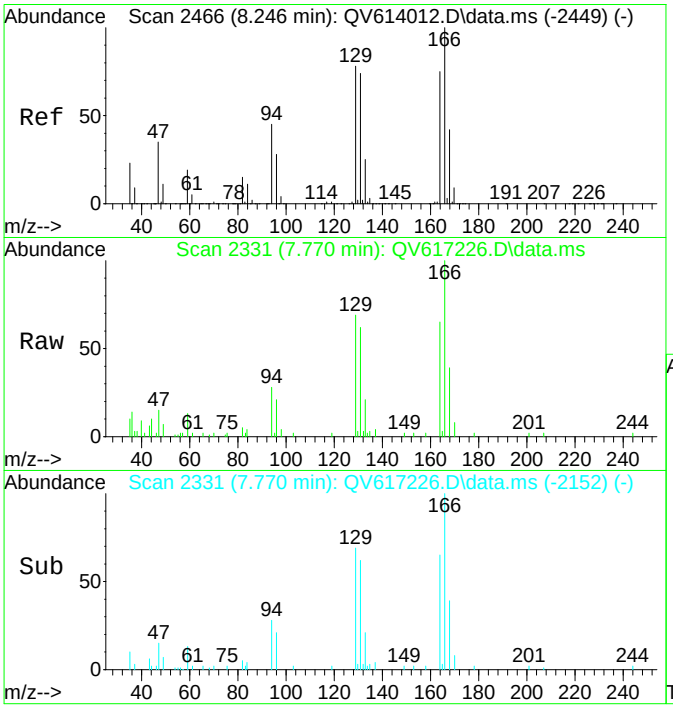


#53
Toluene-d8 (SURR)
Concen: 9.90 ppb
RT: 7.172 min Scan# 2116
Delta R.T. -0.000 min
Lab File: QV617226.D
Acq: 1 Nov 2019 4:19 am

Tgt Ion: 98 Resp: 1545983

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	68.3	44.2	91.8

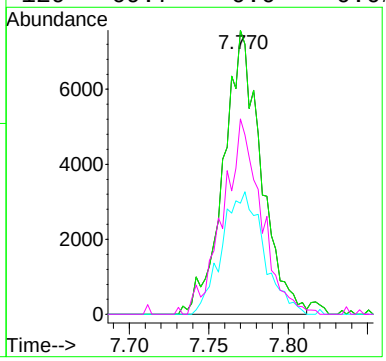


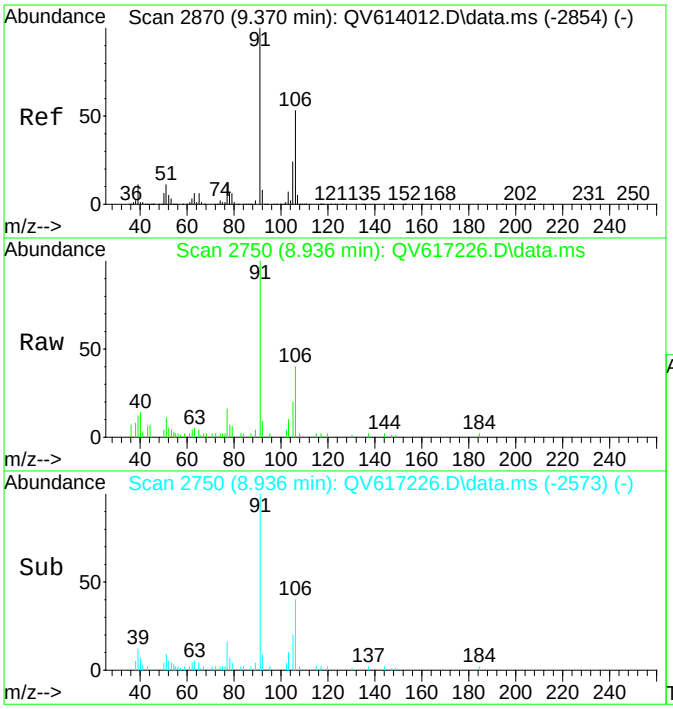


#59
Tetrachloroethylene
Concen: 0.23 ppb
RT: 7.770 min Scan# 2331
Delta R.T. -0.003 min
Lab File: QV617226.D
Acq: 1 Nov 2019 4:19 am

Tgt Ion:166 Resp: 12492

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	0.0	31.7	65.7#
129	69.7	0.0	0.0#

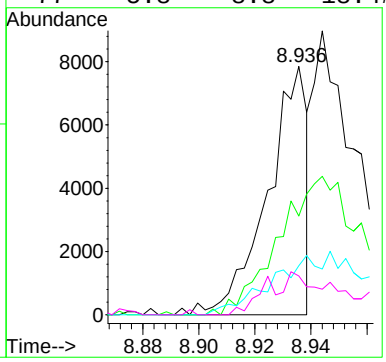


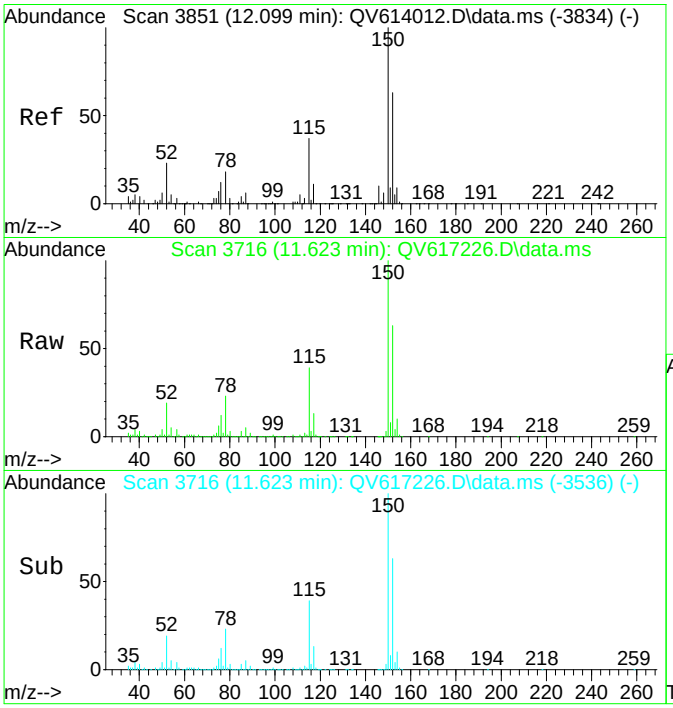


#66
p- & m-Xylenes
Concen: Below Cal
RT: 8.936 min Scan# 2750
Delta R.T. -0.008 min
Lab File: QV617226.D
Acq: 1 Nov 2019 4:19 am

Tgt Ion: 91 Resp: 7735

Ion	Ratio	Lower	Upper
91	100		
106	117.2	34.1	70.9#
105	30.6	16.2	33.6
77	5.8	8.8	18.4#

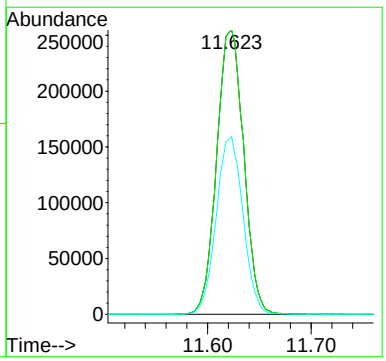


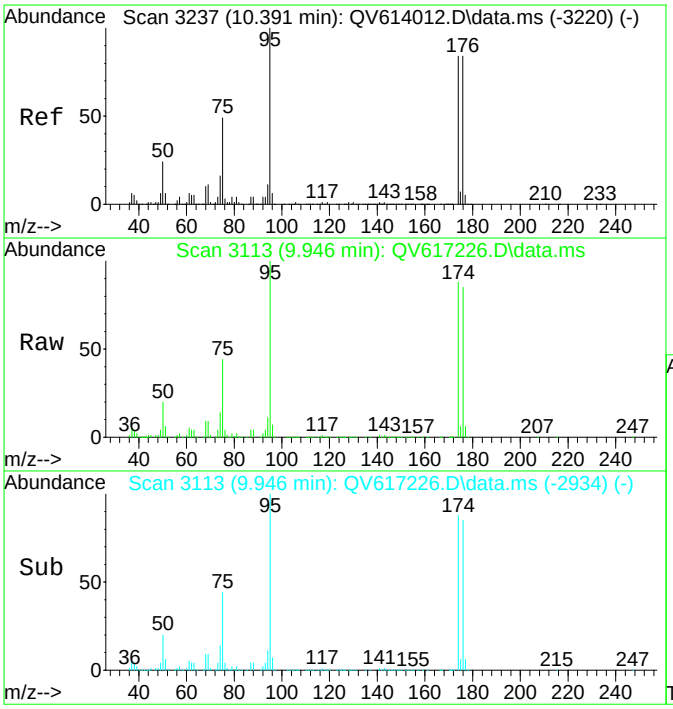


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.623 min Scan# 3716
Delta R.T. 0.000 min
Lab File: QV617226.D
Acq: 1 Nov 2019 4:19 am

Tgt Ion:152 Resp: 463178

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	61.9	29.8	89.3

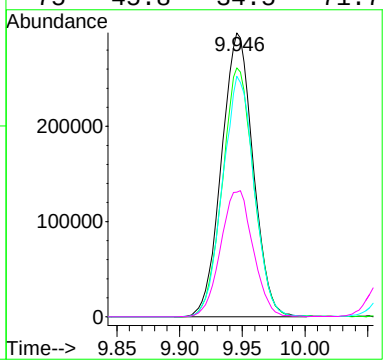


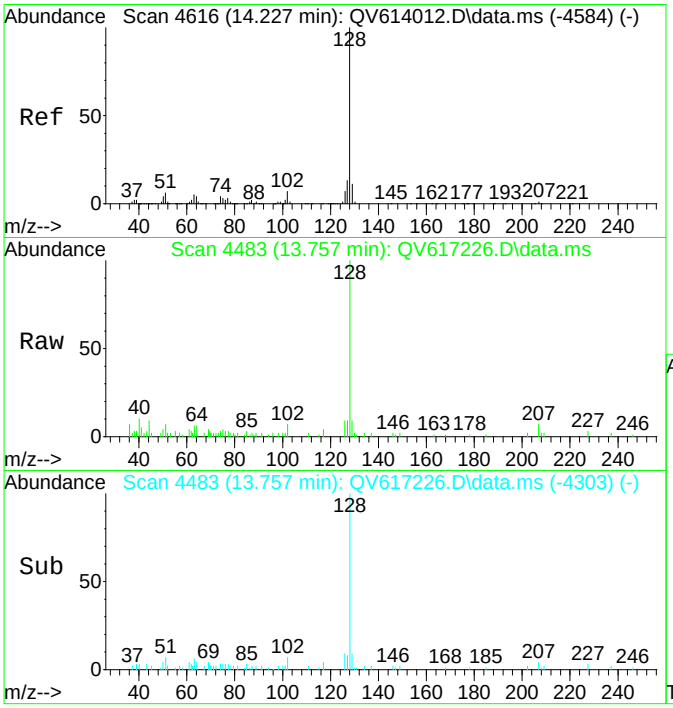


#73
p-Bromofluorobenzene (SURR)
Concen: 9.32 ppb
RT: 9.946 min Scan# 3113
Delta R.T. -0.002 min
Lab File: QV617226.D
Acq: 1 Nov 2019 4:19 am

Tgt Ion: 95 Resp: 521444

Ion	Ratio	Lower	Upper
95	100		
174	86.9	62.5	129.9
176	84.7	60.7	126.1
75	45.8	34.5	71.7

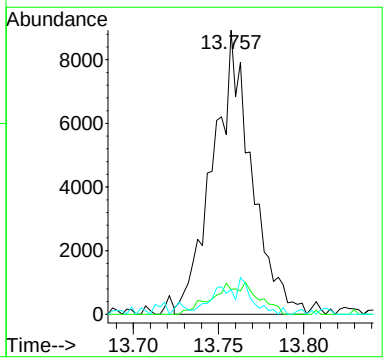




#98
Naphthalene
Concen: Below Cal
RT: 13.757 min Scan# 4483
Delta R.T. 0.000 min
Lab File: QV617226.D
Acq: 1 Nov 2019 4:19 am

Tgt Ion:128 Resp: 14046

Ion	Ratio	Lower	Upper
128	100		
127	8.0	8.9	18.5#
129	5.9	7.3	15.3#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-05 1019

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19J1295-03	File ID:	QV617227.D
Sampled:	10/29/19 14:31	Prepared:	10/30/19 06:14	Analyzed:	11/01/19 04:45
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BJ91821	Sequence:	Y9K0408	Calibration:	YJ90014
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.49	J
75-35-4	1,1-Dichloroethylene	1	0.50	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	3.8	
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.29	J
156-59-2	cis-1,2-Dichloroethylene	1	41	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-05 1019

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19J1295-03	File ID:	QV617227.D
Sampled:	10/29/19 14:31	Prepared:	10/30/19 06:14	Analyzed:	11/01/19 04:45
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BJ91821	Sequence:	Y9K0408	Calibration:	YJ90014
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	15	
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	1.2	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	67	
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	2.9	
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.2	102	69 - 130	
SURR: Toluene-d8	10.0	9.89	98.9	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.56	95.6	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	320098	5.636	314424	5.633	
ISTD: Chlorobenzene-d5	1147276	8.663	1165318	8.663	
ISTD: 1,2-Dichlorobenzene-d4	438840	11.621	436278	11.621	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617227.D
Acq On : 1 Nov 2019 4:45 am
InstName : MSVOA6
Operator : LLJ
Sample : 19J1295-03
Misc : QBQV6103119B 8260 B
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 04 10:29:35 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration

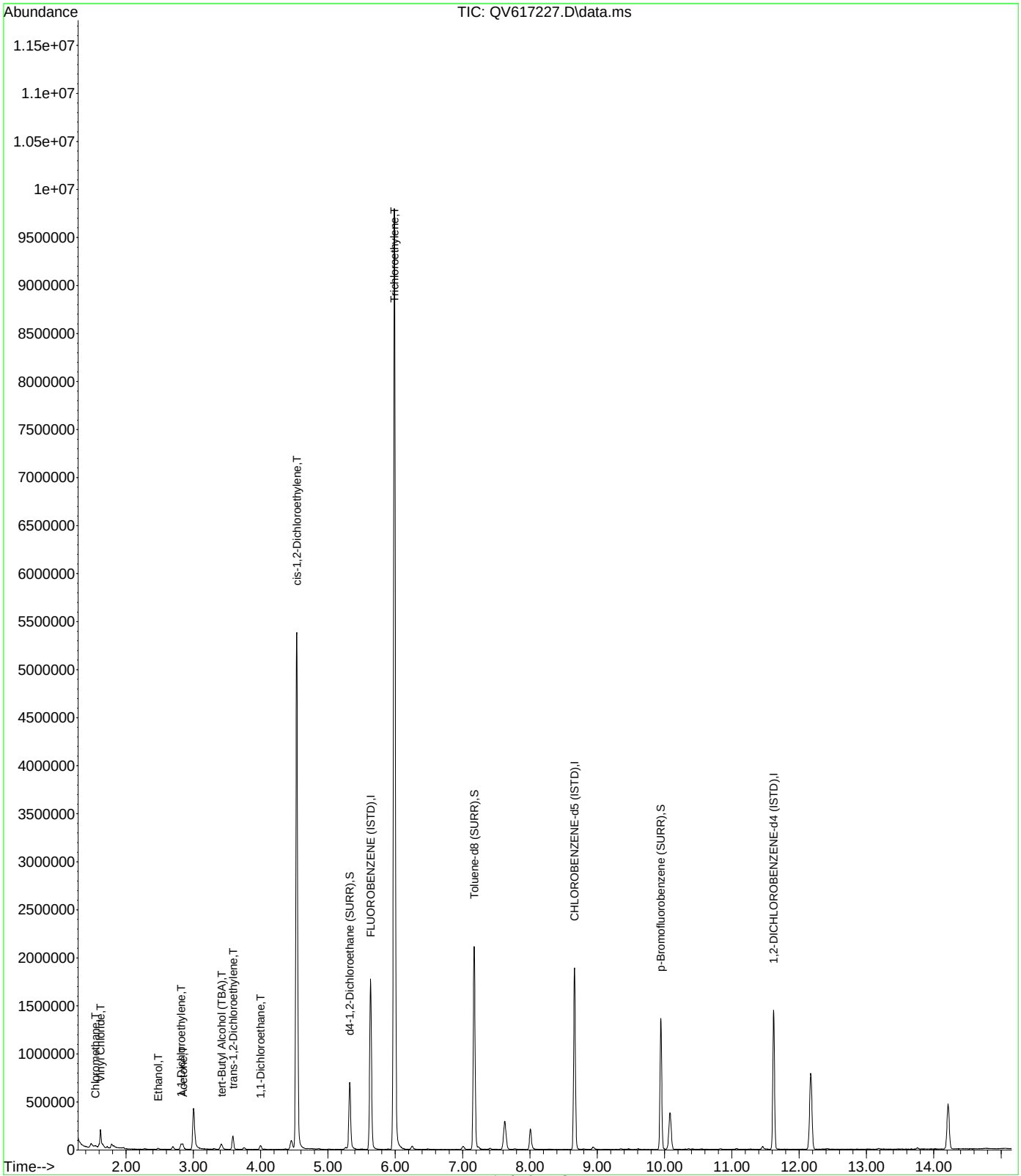
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.636	70	320098	10.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.663	117	1147276	10.00	ppb	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.621	152	438840	10.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.324	65	452779	10.21	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 102.10%			
53) Toluene-d8 (SURR)	7.172	98	1493284	9.89	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 98.90%			
73) p-Bromofluorobenzene (...	9.946	95	506533	9.56	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 95.60%			
Target Compounds						Qvalue
3) Chloromethane	1.546	50	12810	0.29	ppb	# 43
4) Vinyl Chloride	1.621	62	125988	2.90	ppb	# 54
8) Ethanol	2.475	45	11463	41.52	ppb	# 1
10) 1,1-Dichloroethylene	2.818	61	32872	0.50	ppb	# 64
12) Acetone	2.845	43	58864	3.80	ppb	# 97
17) tert-Butyl Alcohol (TBA)	3.418	59	61474	15.04	ppb	# 1
20) trans-1,2-Dichloroethy...	3.588	61	74844	1.19	ppb	98
22) 1,1-Dichloroethane	3.997	63	39908	0.49	ppb	# 88
26) cis-1,2-Dichloroethylene	4.537	61	3020149	40.55	ppb	# 73
42) Trichloroethylene	5.987	95	3192995	66.73	ppb	98
66) p- & m-Xylenes	8.938	91	15805	Below Cal		# 67
98) Naphthalene	13.752	128	10187	Below Cal		# 83

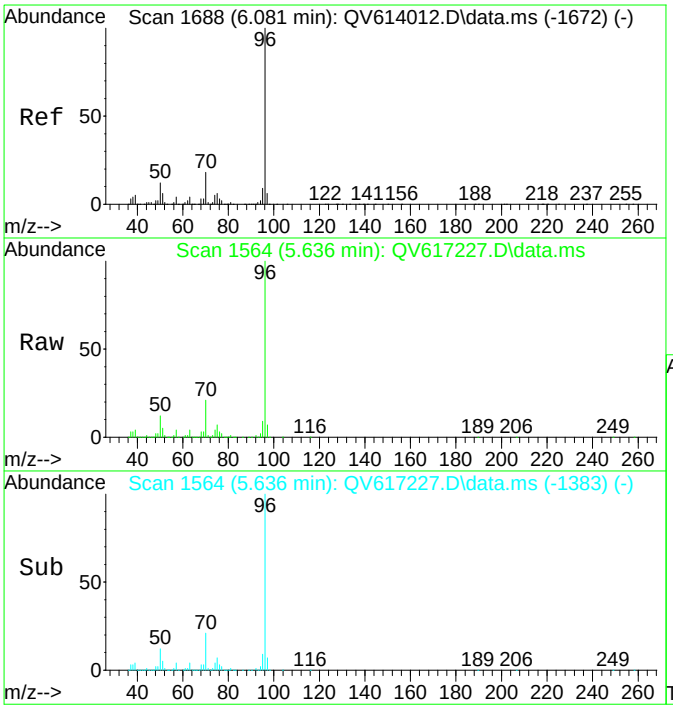
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617227.D
Acq On : 1 Nov 2019 4:45 am
InstName : MSVOA6
Operator : LLJ
Sample : 19J1295-03
Misc : QBQV6103119B 8260 B
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 04 10:29:35 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration

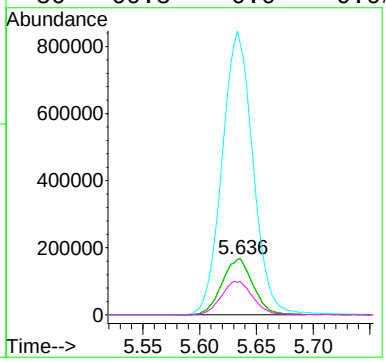


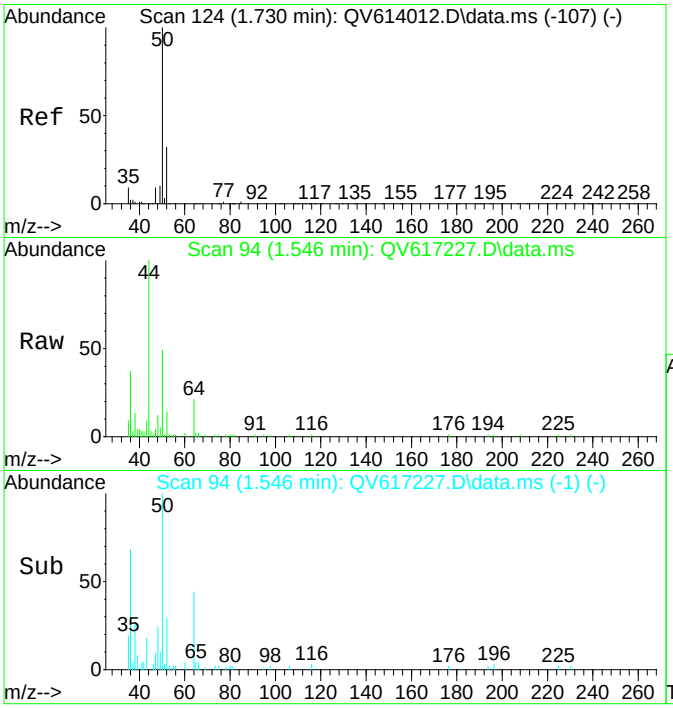


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.636 min Scan# 1564
Delta R.T. 0.003 min
Lab File: QV617227.D
Acq: 1 Nov 2019 4:45 am

Tgt Ion: 70 Resp: 320098

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	504.2	341.1	708.3
50	60.5	0.0	0.0#

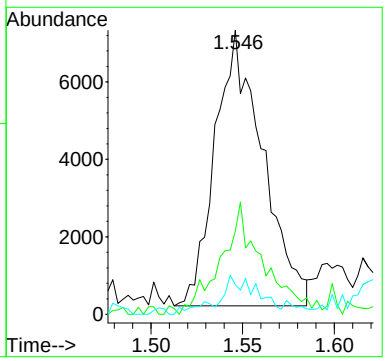


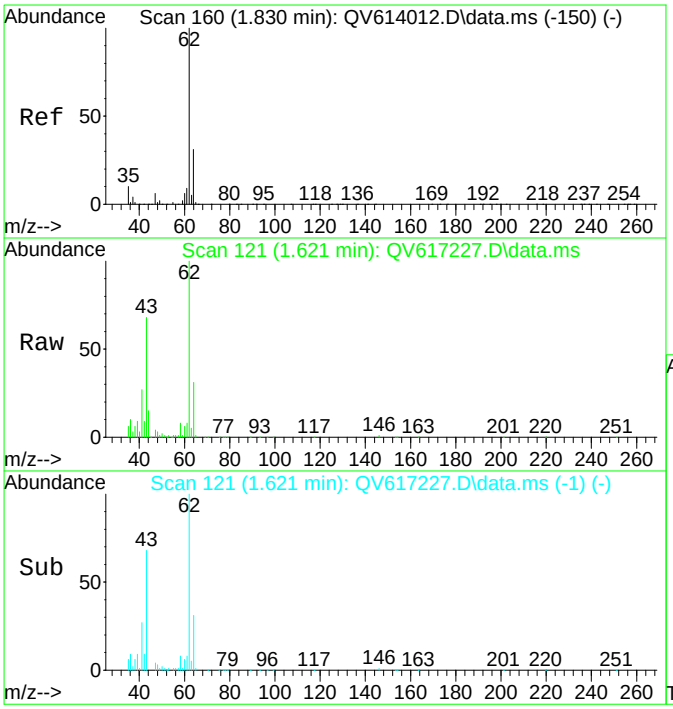


#3
Chloromethane
Concen: 0.29 ppb
RT: 1.546 min Scan# 94
Delta R.T. -0.006 min
Lab File: QV617227.D
Acq: 1 Nov 2019 4:45 am

Tgt Ion: 50 Resp: 12810

Ion	Ratio	Lower	Upper
50	100		
52	36.1	5.2	10.8#
49	3.0	2.0	4.2

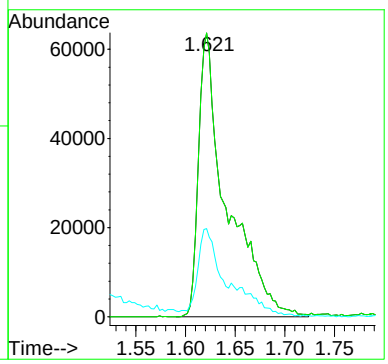


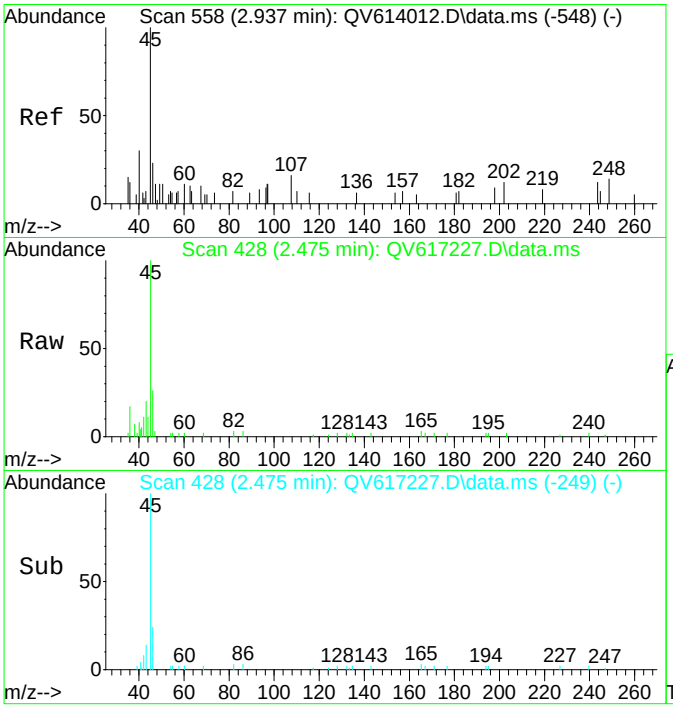


#4
Vinyl Chloride
Concen: 2.90 ppb
RT: 1.621 min Scan# 121
Delta R.T. 0.000 min
Lab File: QV617227.D
Acq: 1 Nov 2019 4:45 am

Tgt Ion: 62 Resp: 125988

Ion	Ratio	Lower	Upper
62	100		
62	100.0	36.0	74.8#
64	19.7	12.5	25.9

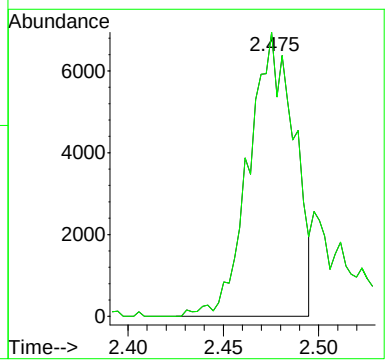


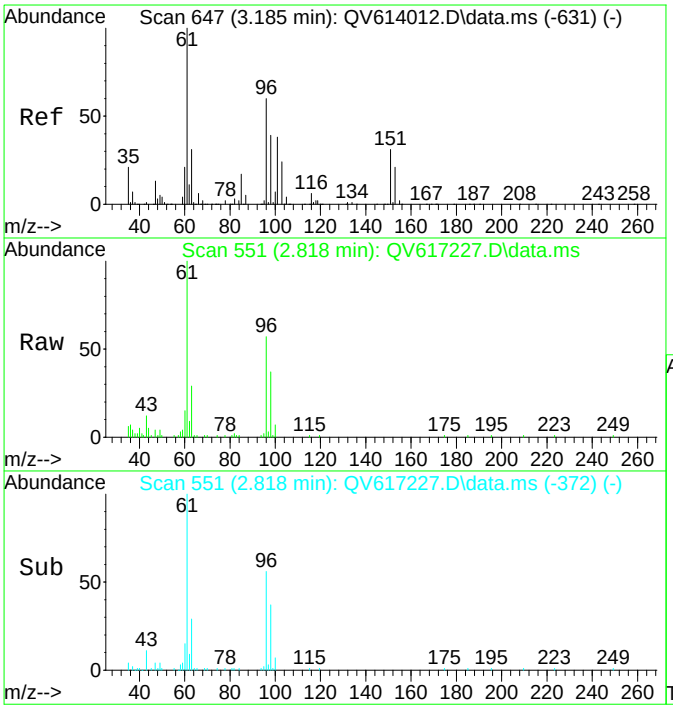


#8
Ethanol
Concen: 41.52 ppb
RT: 2.475 min Scan# 428
Delta R.T. -0.003 min
Lab File: QV617227.D
Acq: 1 Nov 2019 4:45 am

Tgt Ion: 45 Resp: 11463

Ion	Ratio	Lower	Upper
45	100		
45	100.0	16.3	48.9#

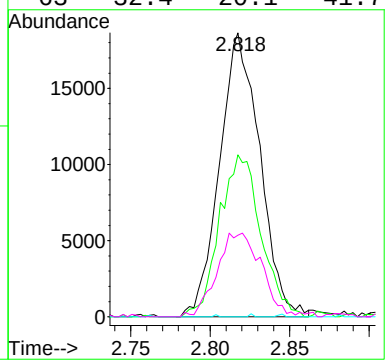


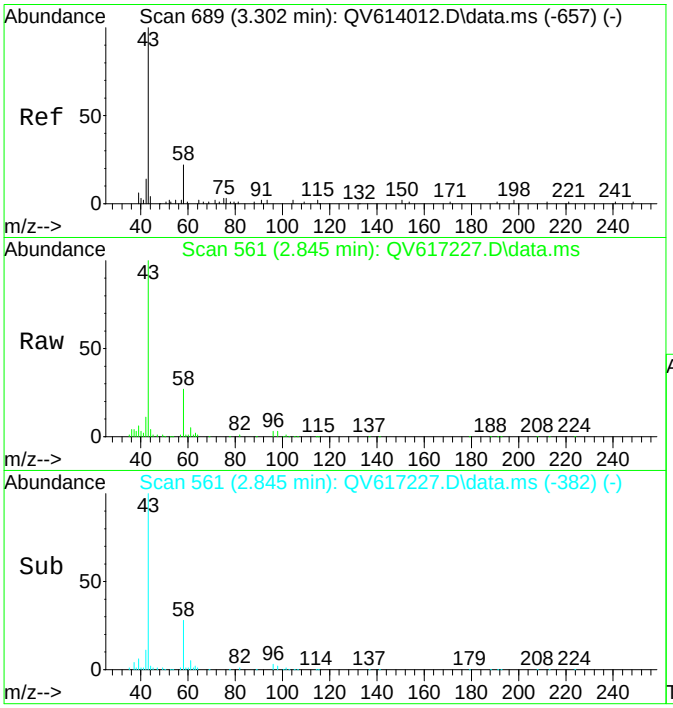


#10
1,1-Dichloroethylene
Concen: 0.50 ppb
RT: 2.818 min Scan# 551
Delta R.T. -0.002 min
Lab File: QV617227.D
Acq: 1 Nov 2019 4:45 am

Tgt Ion: 61 Resp: 32872

Ion	Ratio	Lower	Upper
61	100		
96	58.7	33.6	69.8
101	0.1	37.0	77.0#
63	32.4	20.1	41.7

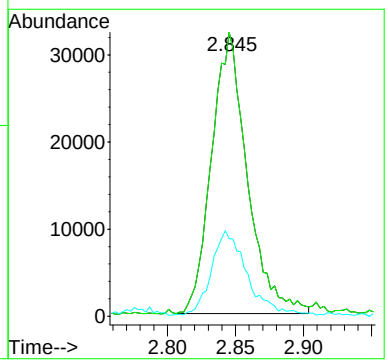


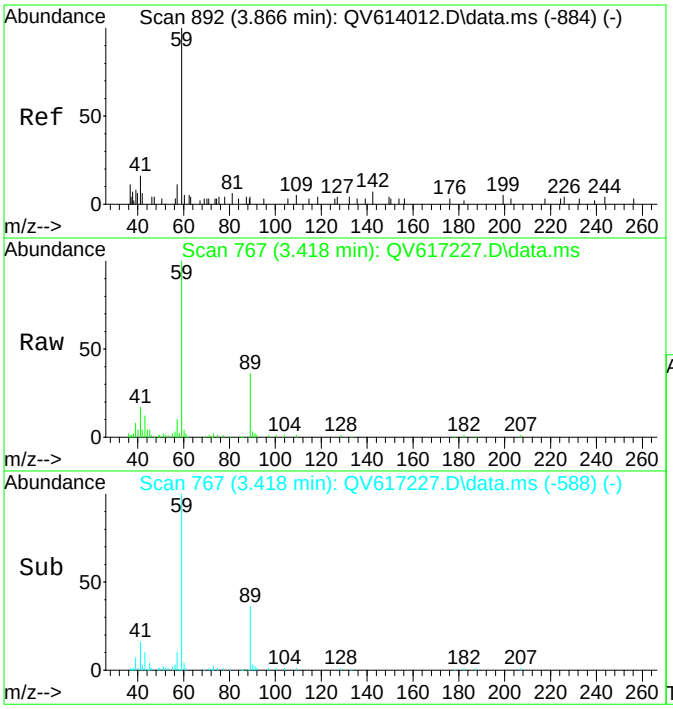


#12
Acetone
Concen: 3.80 ppb
RT: 2.845 min Scan# 561
Delta R.T. -0.003 min
Lab File: QV617227.D
Acq: 1 Nov 2019 4:45 am

Tgt Ion: 43 Resp: 58864

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	0.0	6.0	18.1#

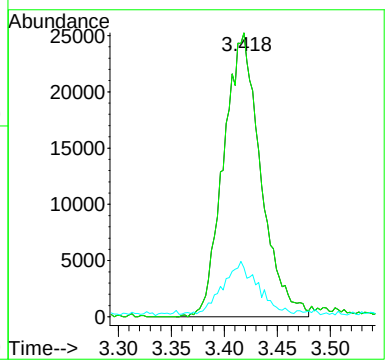


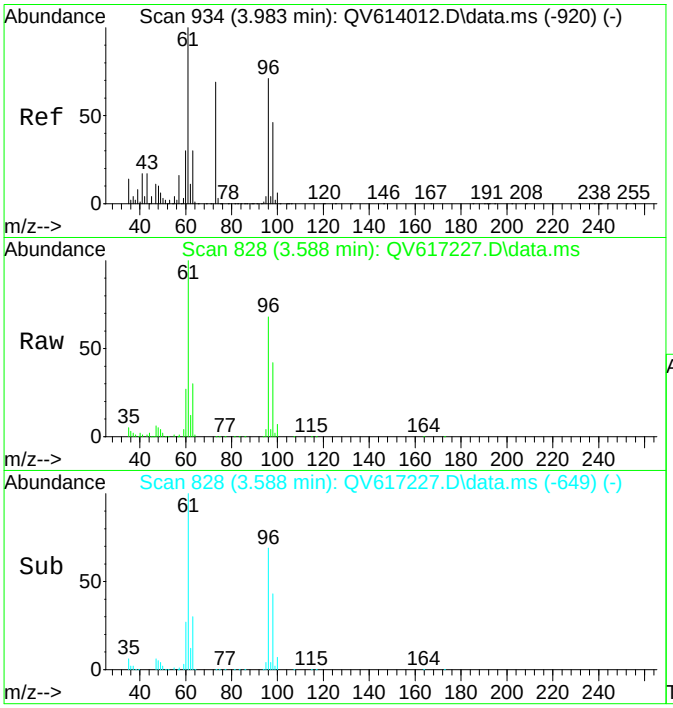


#17
tert-Butyl Alcohol (TBA)
Concen: 15.04 ppb
RT: 3.418 min Scan# 767
Delta R.T. -0.003 min
Lab File: QV617227.D
Acq: 1 Nov 2019 4:45 am

Tgt Ion: 59 Resp: 61474

Ion	Ratio	Lower	Upper
59	100		
59	100.0	19.3	40.1#
41	0.0	0.0	0.0

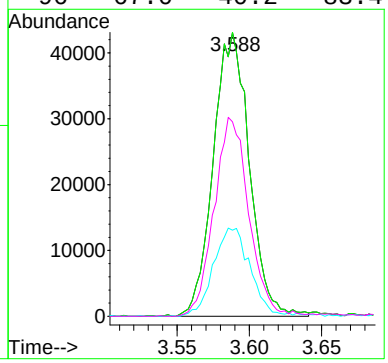


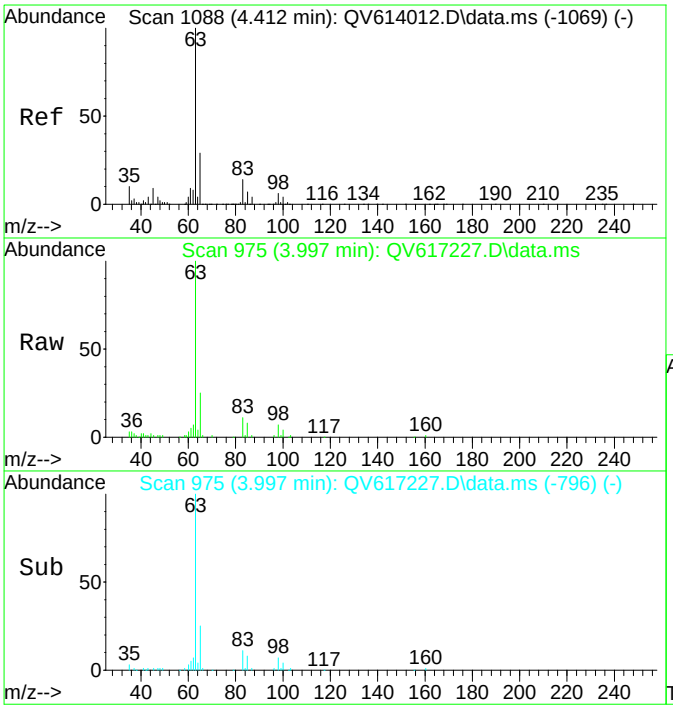


#20
trans-1,2-Dichloroethylene
Concen: 1.19 ppb
RT: 3.588 min Scan# 828
Delta R.T. -0.003 min
Lab File: QV617227.D
Acq: 1 Nov 2019 4:45 am

Tgt Ion: 61 Resp: 74844

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	31.5	20.9	43.3
96	67.0	40.2	83.4

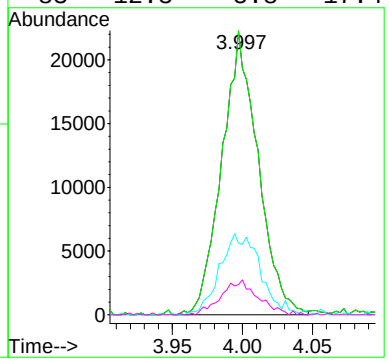


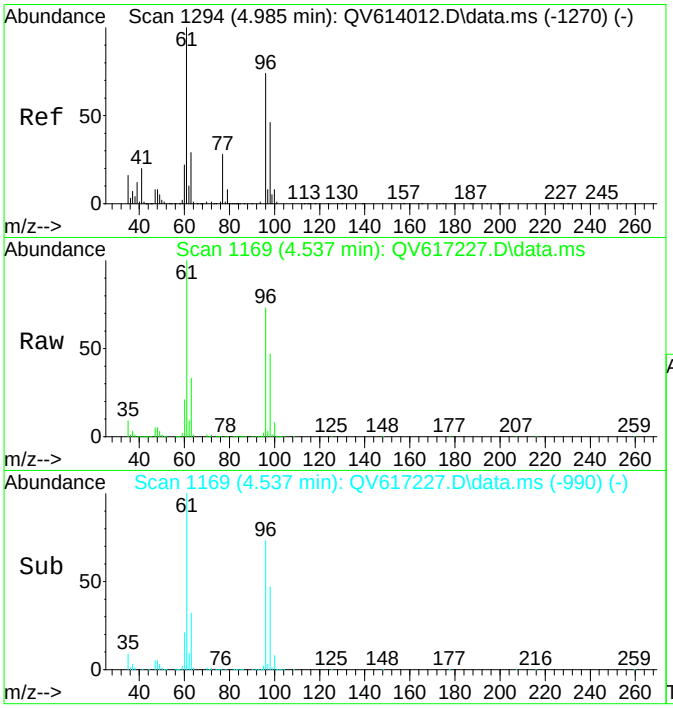


#22
1,1-Dichloroethane
Concen: 0.49 ppb
RT: 3.997 min Scan# 975
Delta R.T. -0.003 min
Lab File: QV617227.D
Acq: 1 Nov 2019 4:45 am

Tgt Ion: 63 Resp: 39908

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	0.0	19.4	40.2#
83	12.3	5.8	17.4

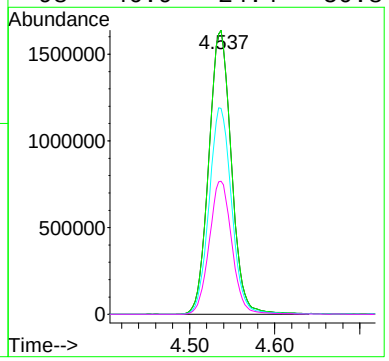


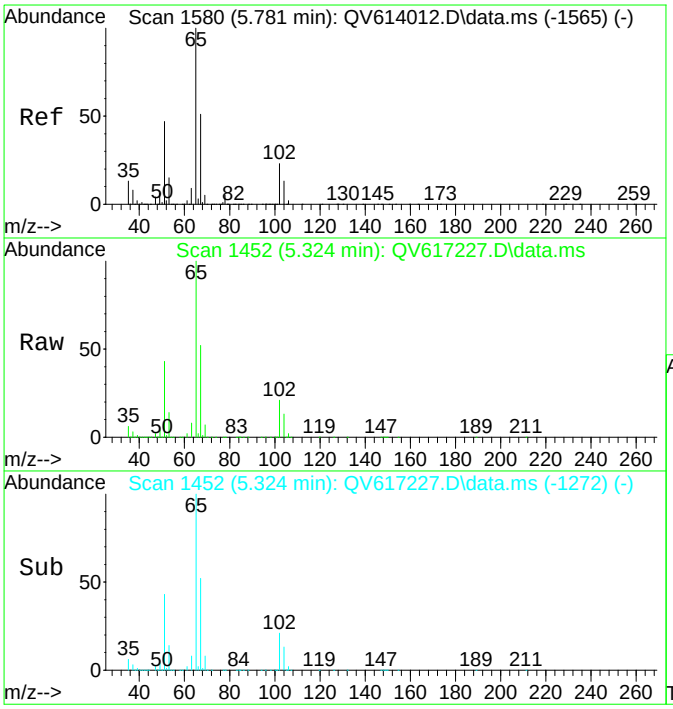


#26
cis-1,2-Dichloroethylene
Concen: 40.55 ppb
RT: 4.537 min Scan# 1169
Delta R.T. -0.003 min
Lab File: QV617227.D
Acq: 1 Nov 2019 4:45 am

Tgt Ion: 61 Resp: 3020149

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	0.0	39.2	81.4#
98	46.9	24.4	50.8

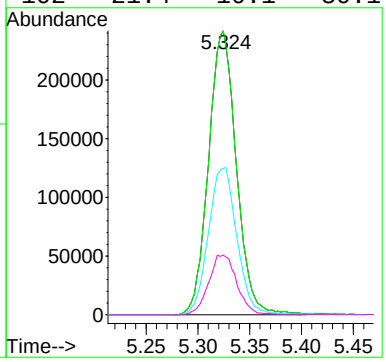


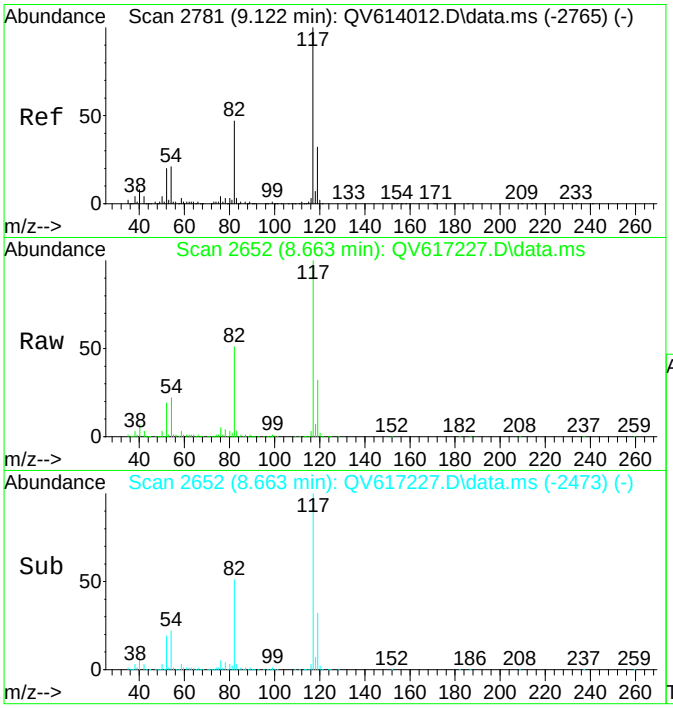


#35
d4-1,2-Dichloroethane (SURR)
Concen: 10.21 ppb
RT: 5.324 min Scan# 1452
Delta R.T. 0.000 min
Lab File: QV617227.D
Acq: 1 Nov 2019 4:45 am

Tgt Ion: 65 Resp: 452779

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	53.1	34.0	70.6
102	21.4	10.1	30.1

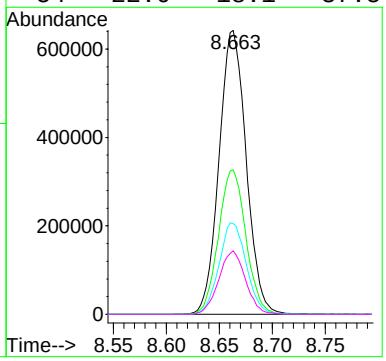


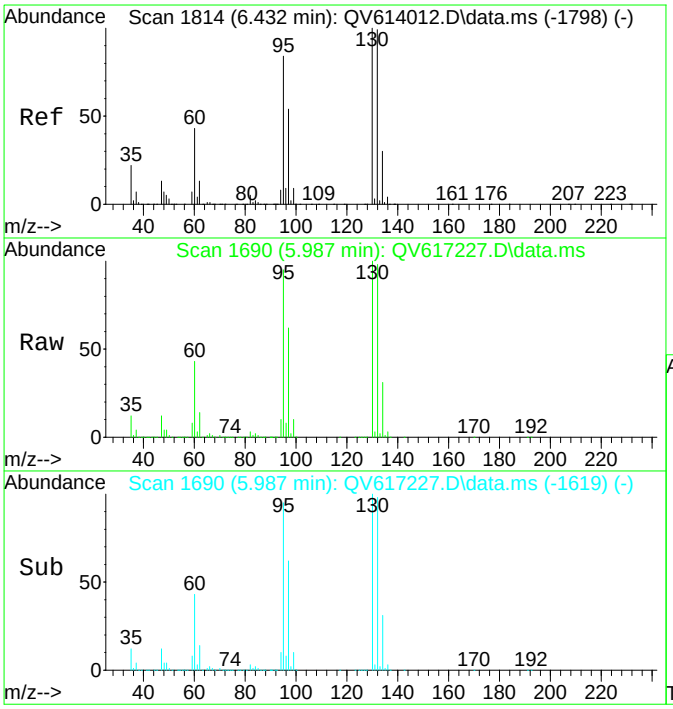


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.663 min Scan# 2652
Delta R.T. -0.003 min
Lab File: QV617227.D
Acq: 1 Nov 2019 4:45 am

Tgt Ion:117 Resp: 1147276

Ion	Ratio	Lower	Upper
117	100		
82	51.3	34.5	71.7
119	32.4	20.9	43.3
54	22.0	18.1	37.5

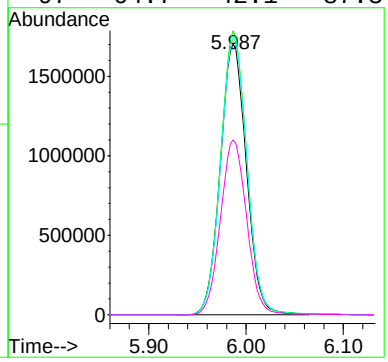


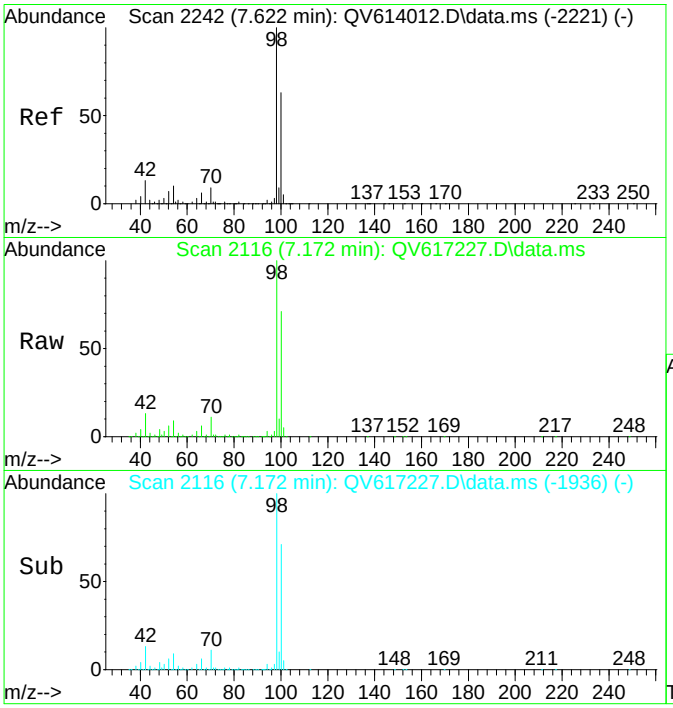


#42
Trichloroethylene
Concen: 66.73 ppb
RT: 5.987 min Scan# 1690
Delta R.T. -0.002 min
Lab File: QV617227.D
Acq: 1 Nov 2019 4:45 am

Tgt Ion: 95 Resp: 3192995

Ion	Ratio	Lower	Upper
95	100		
130	105.2	70.0	145.4
132	103.3	69.6	144.6
97	64.7	42.1	87.3

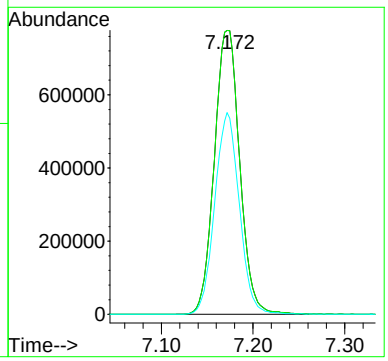


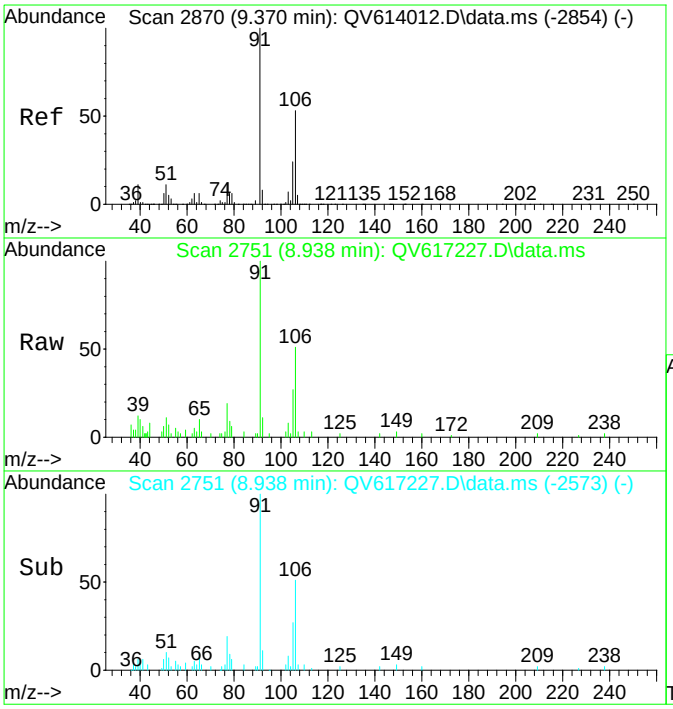


#53
Toluene-d8 (SURR)
Concen: 9.89 ppb
RT: 7.172 min Scan# 2116
Delta R.T. -0.000 min
Lab File: QV617227.D
Acq: 1 Nov 2019 4:45 am

Tgt Ion: 98 Resp: 1493284

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	68.6	44.2	91.8

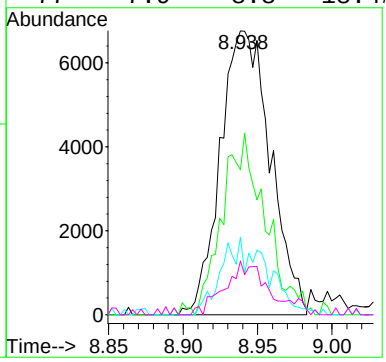


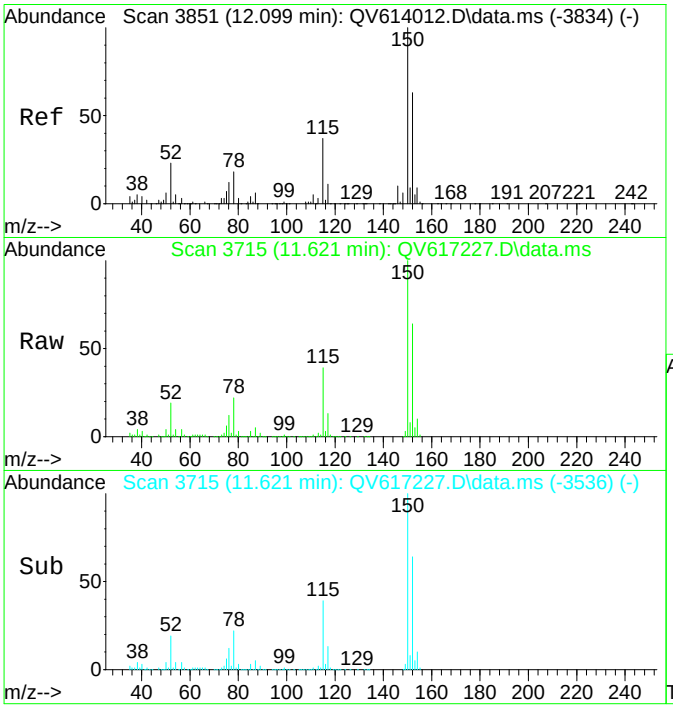


#66
p- & m-Xylenes
Concen: Below Cal
RT: 8.938 min Scan# 2751
Delta R.T. -0.006 min
Lab File: QV617227.D
Acq: 1 Nov 2019 4:45 am

Tgt Ion: 91 Resp: 15805

Ion	Ratio	Lower	Upper
91	100		
106	25.2	34.1	70.9#
105	9.1	16.2	33.6#
77	7.9	8.8	18.4#

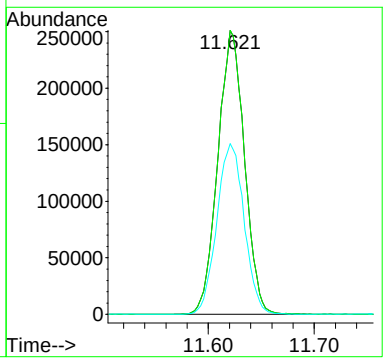


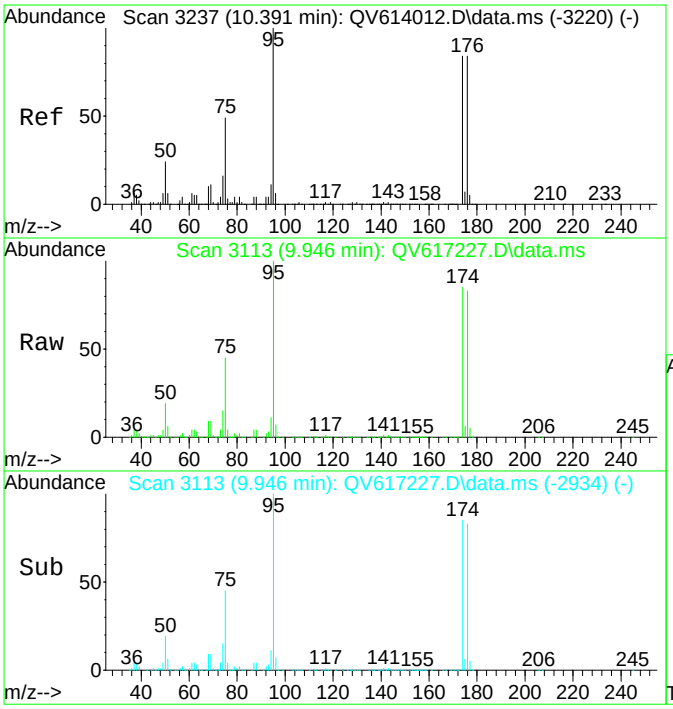


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.621 min Scan# 3715
Delta R.T. -0.002 min
Lab File: QV617227.D
Acq: 1 Nov 2019 4:45 am

Tgt Ion:152 Resp: 438840

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	61.7	29.8	89.3

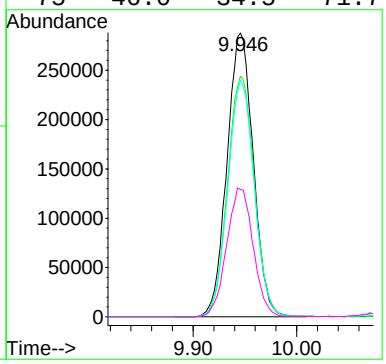


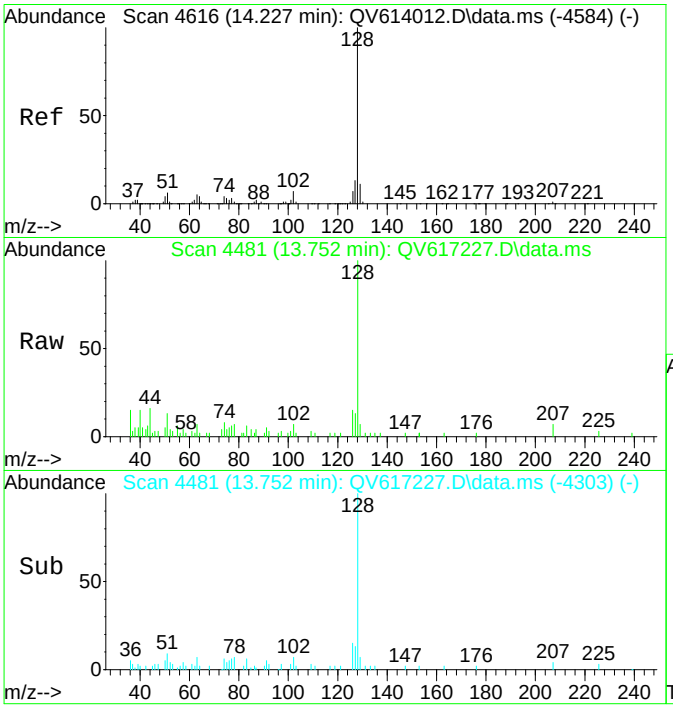


#73
p-Bromofluorobenzene (SURR)
Concen: 9.56 ppb
RT: 9.946 min Scan# 3113
Delta R.T. -0.002 min
Lab File: QV617227.D
Acq: 1 Nov 2019 4:45 am

Tgt Ion: 95 Resp: 506533

Ion	Ratio	Lower	Upper
95	100		
174	86.7	62.5	129.9
176	83.9	60.7	126.1
75	46.0	34.5	71.7

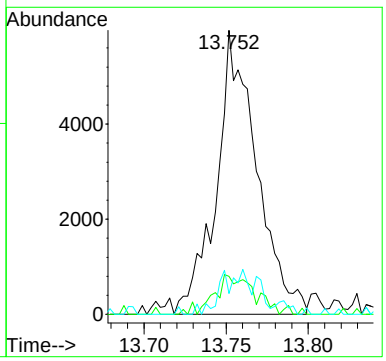




#98
Naphthalene
Concen: Below Cal
RT: 13.752 min Scan# 4481
Delta R.T. -0.005 min
Lab File: QV617227.D
Acq: 1 Nov 2019 4:45 am

Tgt Ion:128 Resp: 10187

Ion	Ratio	Lower	Upper
128	100		
127	7.5	8.9	18.5#
129	4.2	7.3	15.3#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-DUP 1019

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19J1295-04	File ID:	QV617228.D
Sampled:	10/29/19 00:00	Prepared:	10/30/19 06:14	Analyzed:	11/01/19 05:11
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BJ91821	Sequence:	Y9K0408	Calibration:	YJ90014
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.53	
75-34-3	1,1-Dichloroethane	1	17	
75-35-4	1,1-Dichloroethylene	1	92	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.89	
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.24	J
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.34	J
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-DUP 1019

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19J1295-04	File ID:	QV617228.D
Sampled:	10/29/19 00:00	Prepared:	10/30/19 06:14	Analyzed:	11/01/19 05:11
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BJ91821	Sequence:	Y9K0408	Calibration:	YJ90014
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	7.3	
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.23	J
108-88-3	Toluene	1	1.4	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.96	99.6	69 - 130	
SURR: Toluene-d8	10.0	9.89	98.9	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.2	102	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	353963	5.642	314424	5.633	
ISTD: Chlorobenzene-d5	1206454	8.663	1165318	8.663	
ISTD: 1,2-Dichlorobenzene-d4	425206	11.621	436278	11.621	

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617228.D
Acq On : 1 Nov 2019 5:11 am
InstName : MSVOA6
Operator : LLJ
Sample : 19J1295-04
Misc : QBQV6103119B 8260 B
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 04 10:32:50 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration

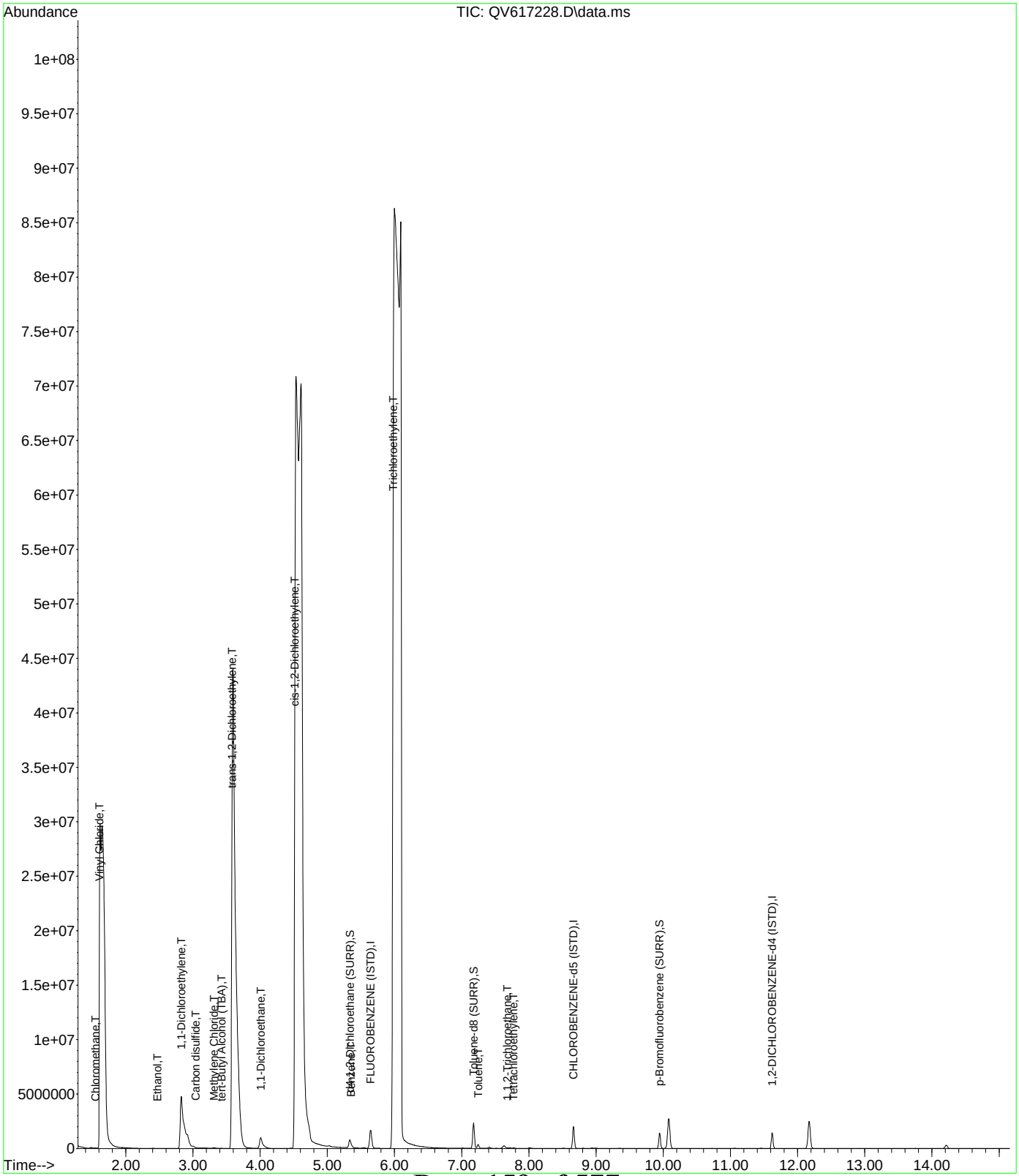
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.642	70	353963	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.663	117	1206454	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.621	152	425206	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.336	65	488140	9.96	ppb		0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 99.60%				
53) Toluene-d8 (SURR)	7.177	98	1569537	9.89	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 98.90%				
73) p-Bromofluorobenzene (...	9.946	95	522703	10.18	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 101.80%				
Target Compounds							Qvalue
3) Chloromethane	1.549	50	16191	0.34	ppb	#	84
4) Vinyl Chloride	1.607	62	54102631m	1125.26	ppb		
8) Ethanol	2.470	45	6341	20.77	ppb	#	1
10) 1,1-Dichloroethylene	2.826	61	6637925	91.60	ppb	#	65
16) Carbon disulfide	3.040	76	26959	0.24	ppb	#	99
17) tert-Butyl Alcohol (TBA)	3.424	59	33267m	7.26	ppb		
18) Methylene Chloride	3.313	49	43634m	0.66	ppb		
20) trans-1,2-Dichloroethy...	3.580	61	44428746m	641.09	ppb		
22) 1,1-Dichloroethane	4.008	63	1590320	17.48	ppb		99
26) cis-1,2-Dichloroethylene	4.515	61	77199184m	937.24	ppb		
39) Benzene	5.355	78	157259	0.89	ppb	#	1
42) Trichloroethylene	5.978	95	70051631m	1392.10	ppb		
54) Toluene	7.247	91	250895	1.41	ppb		99
57) 1,1,2-Trichloroethane	7.678	97	18842	0.53	ppb	#	72
59) Tetrachloroethylene	7.770	166	12568	0.23	ppb	#	77
66) p- & m-Xylenes	8.944	91	29043	Below Cal		#	93
98) Naphthalene	13.752	128	9990	Below Cal			93

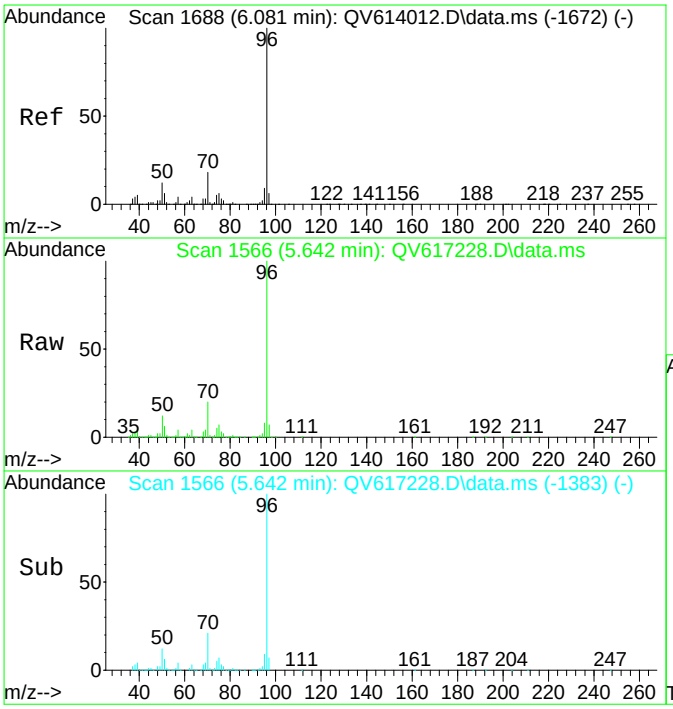
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617228.D
Acq On : 1 Nov 2019 5:11 am
InstName : MSVOA6
Operator : LLJ
Sample : 19J1295-04
Misc : QBQV6103119B 8260 B
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 04 10:32:50 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration

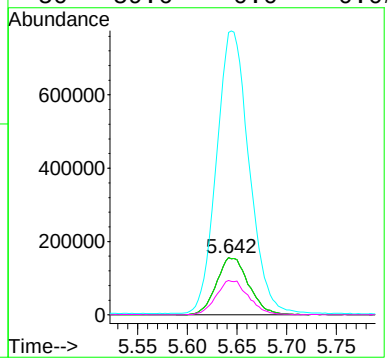


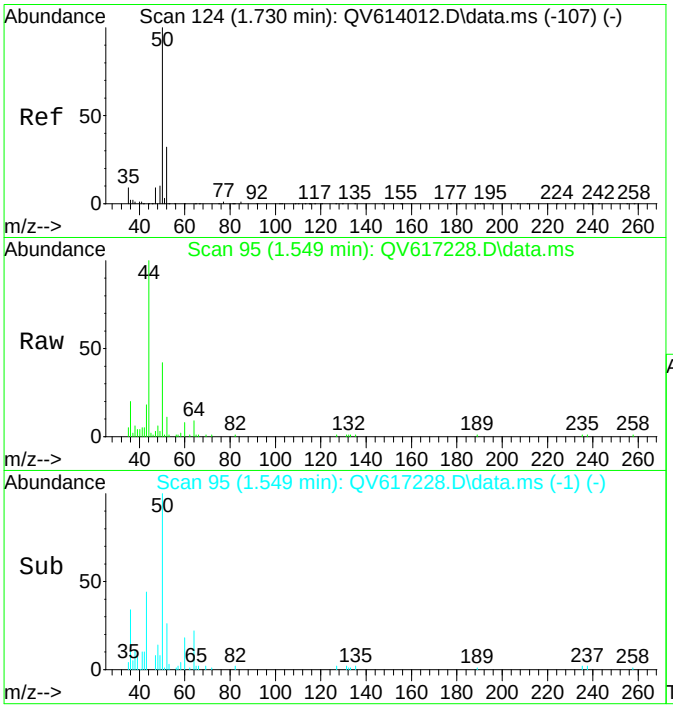


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.642 min Scan# 1566
Delta R.T. 0.009 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 70 Resp: 353963

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	0.0	341.1	708.3#
50	59.6	0.0	0.0#

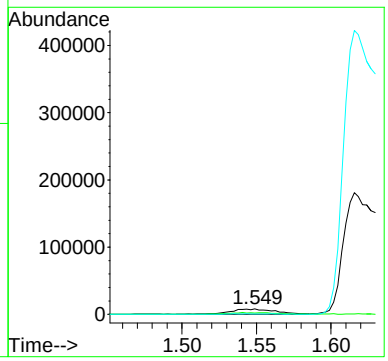


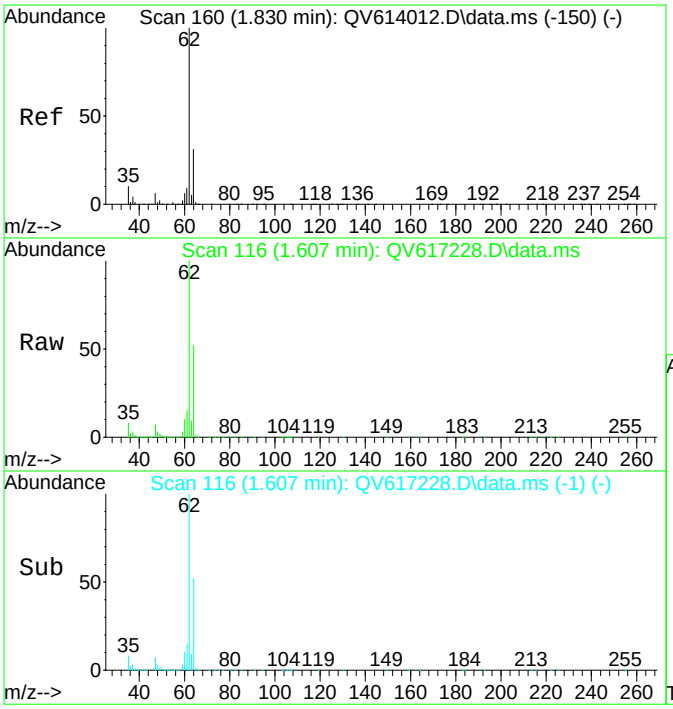


#3
Chloromethane
Concen: 0.34 ppb
RT: 1.549 min Scan# 95
Delta R.T. -0.003 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 50 Resp: 16191

Ion	Ratio	Lower	Upper
50	100		
52	14.7	5.2	10.8#
49	0.0	2.0	4.2#

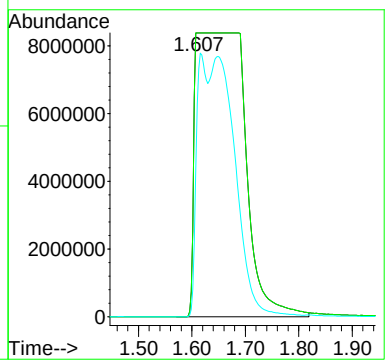


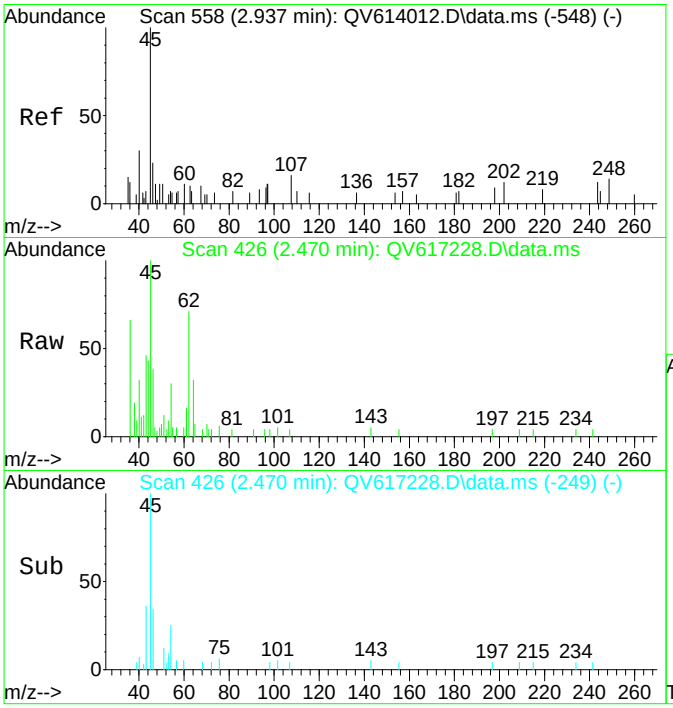


#4
Vinyl Chloride
Concen: 1125.26 ppb m
RT: 1.607 min Scan# 116
Delta R.T. -0.014 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 62 Resp:54102631

Ion	Ratio	Lower	Upper
62	100		
62	0.0	36.0	74.8#
64	0.0	12.5	25.9#

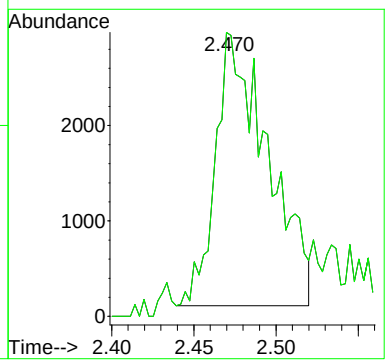


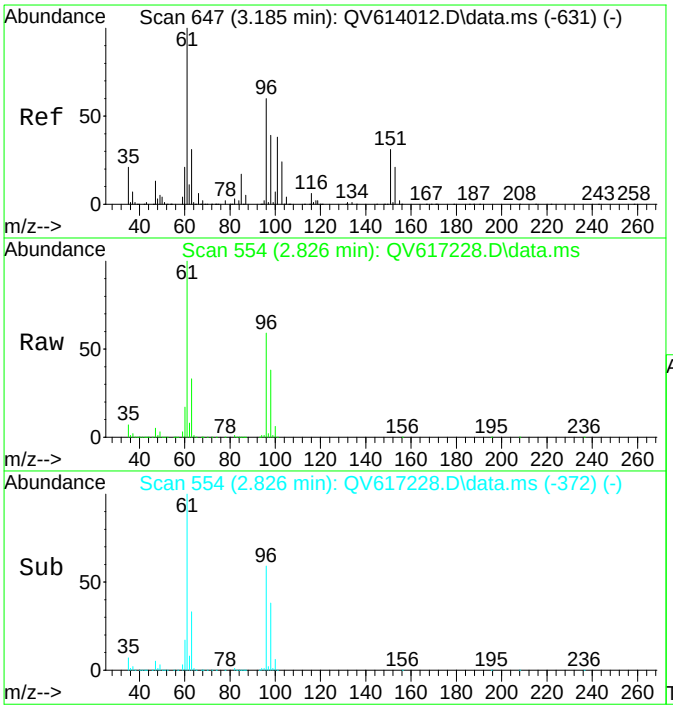


#8
Ethanol
Concen: 20.77 ppb
RT: 2.470 min Scan# 426
Delta R.T. -0.008 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 45 Resp: 6341

Ion	Ratio	Lower	Upper
45	100		
45	100.0	16.3	48.9#

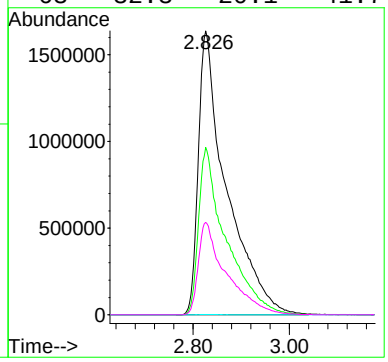


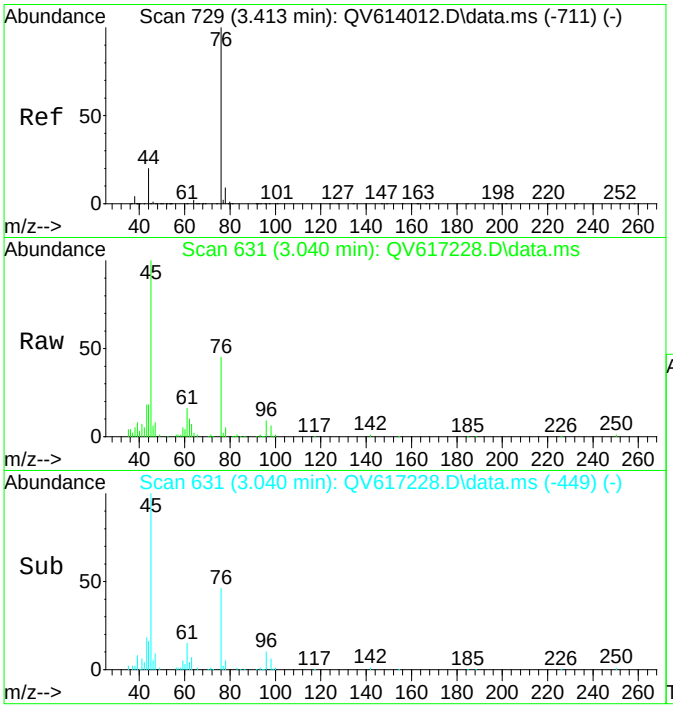


#10
1,1-Dichloroethylene
Concen: 91.60 ppb
RT: 2.826 min Scan# 554
Delta R.T. 0.006 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 61 Resp: 6637925

Ion	Ratio	Lower	Upper
61	100		
96	57.5	33.6	69.8
101	0.1	37.0	77.0#
63	32.3	20.1	41.7

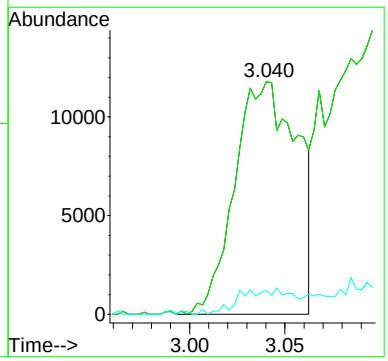


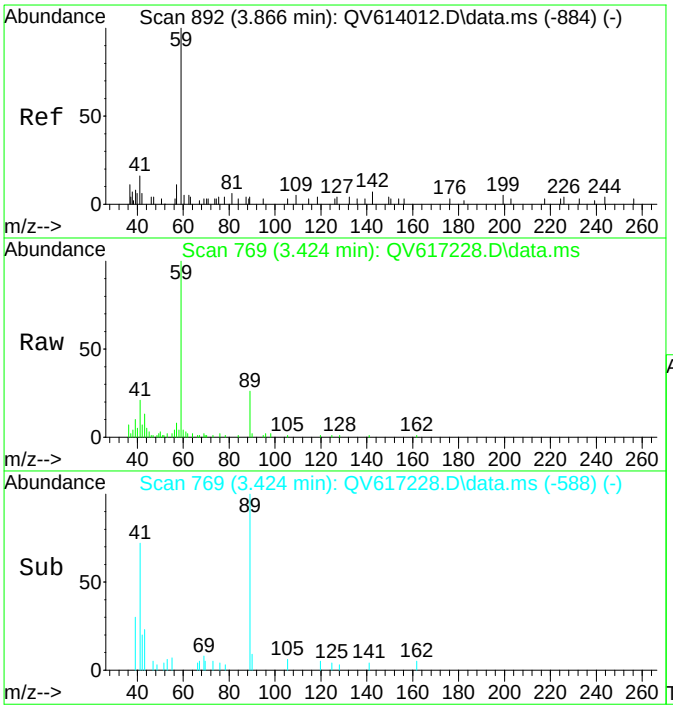


#16
Carbon disulfide
Concen: 0.24 ppb
RT: 3.040 min Scan# 631
Delta R.T. 0.005 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 76 Resp: 26959

Ion	Ratio	Lower	Upper
76	100		
76	100.0	65.0	135.0
78	3.6	4.5	13.4#

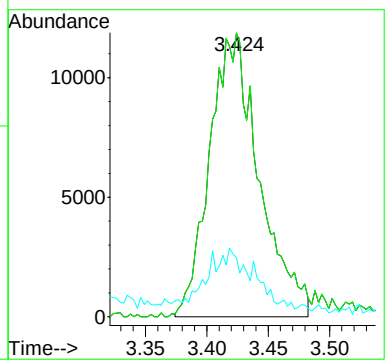


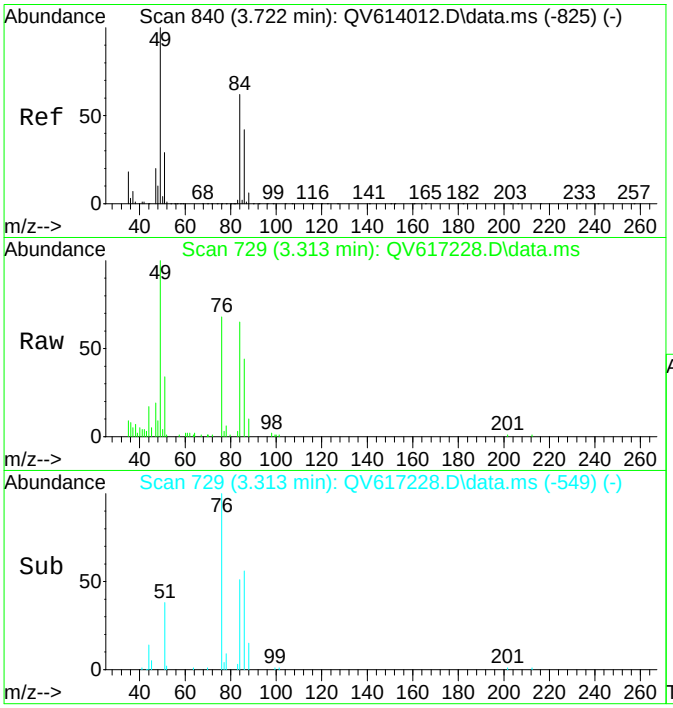


#17
tert-Butyl Alcohol (TBA)
Concen: 7.26 ppb m
RT: 3.424 min Scan# 769
Delta R.T. 0.003 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 59 Resp: 33267

Ion	Ratio	Lower	Upper
59	100		
59	5405.3	19.3	40.1#
41	0.0	0.0	0.0

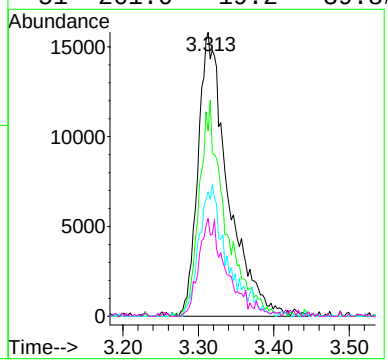


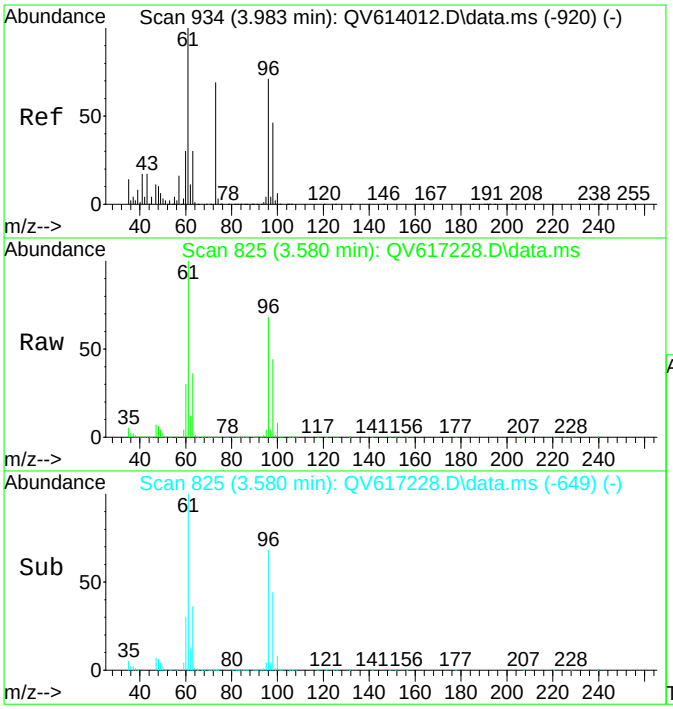


#18
Methylene Chloride
Concen: 0.66 ppb m
RT: 3.313 min Scan# 729
Delta R.T. -0.000 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 49 Resp: 43634

Ion	Ratio	Lower	Upper
49	100		
84	10.6	35.0	72.8#
86	3.7	22.7	47.3#
51	261.0	19.2	39.8#

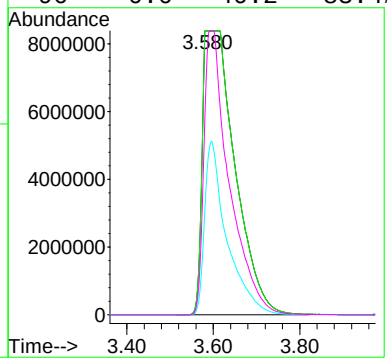


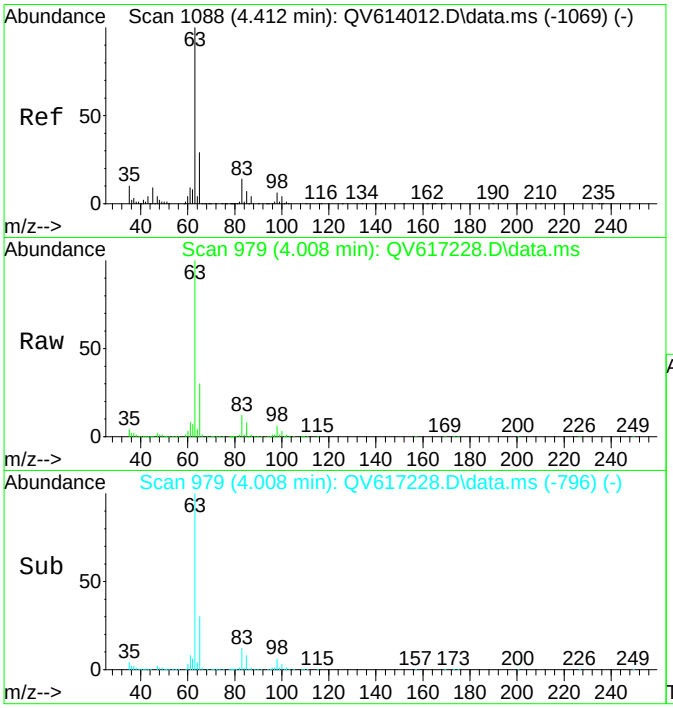


#20
trans-1,2-Dichloroethylene
Concen: 641.09 ppb m
RT: 3.580 min Scan# 825
Delta R.T. -0.011 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 61 Resp:44428746

Ion	Ratio	Lower	Upper
61	100		
61	0.0	65.0	135.0#
63	0.0	20.9	43.3#
96	0.0	40.2	83.4#

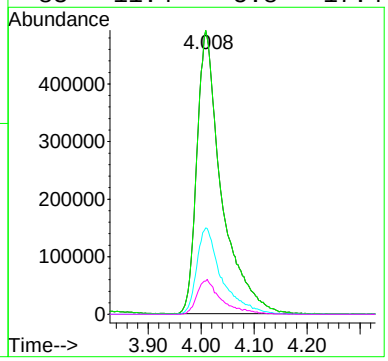


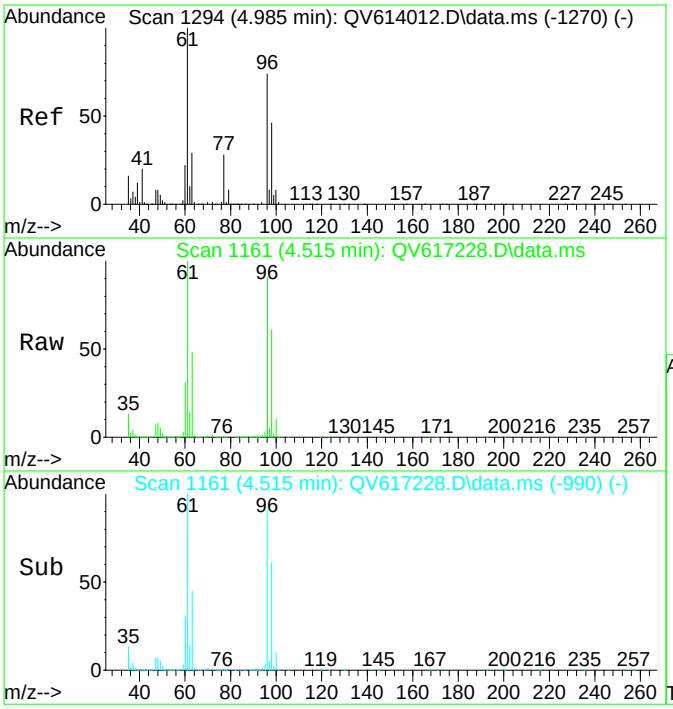


#22
1,1-Dichloroethane
Concen: 17.48 ppb
RT: 4.008 min Scan# 979
Delta R.T. 0.008 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 63 Resp: 1590320

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	31.1	19.4	40.2
83	11.4	5.8	17.4

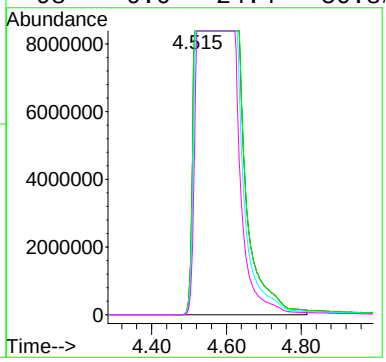


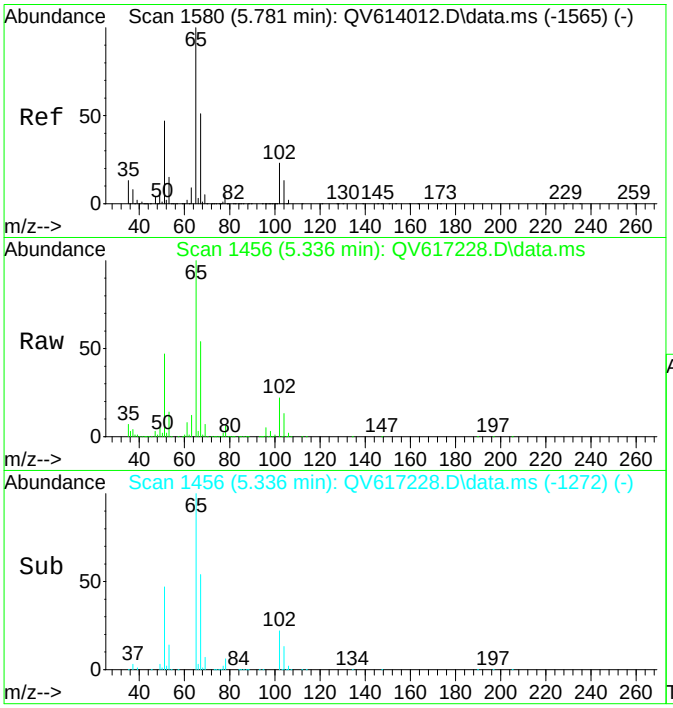


#26
cis-1,2-Dichloroethylene
Concen: 937.24 ppb m
RT: 4.515 min Scan# 1161
Delta R.T. -0.025 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 61 Resp:77199184

Ion	Ratio	Lower	Upper
61	100		
61	0.0	65.0	135.0#
96	0.0	39.2	81.4#
98	0.0	24.4	50.8#

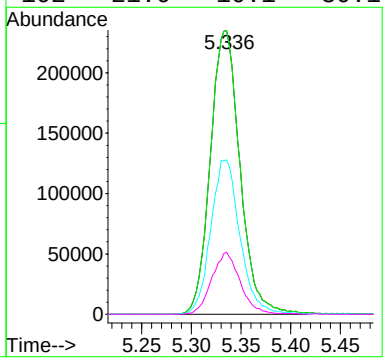


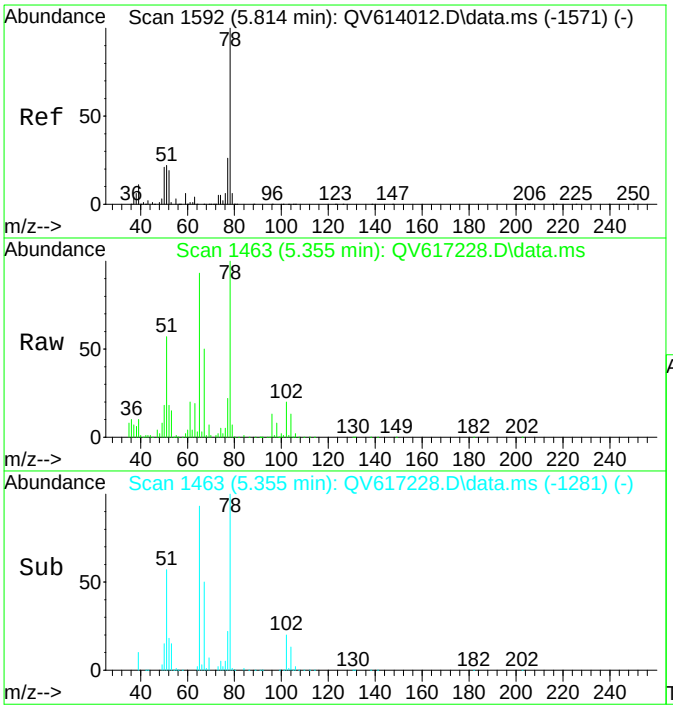


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.96 ppb
RT: 5.336 min Scan# 1456
Delta R.T. 0.012 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 65 Resp: 488140

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	53.7	34.0	70.6
102	21.0	10.1	30.1

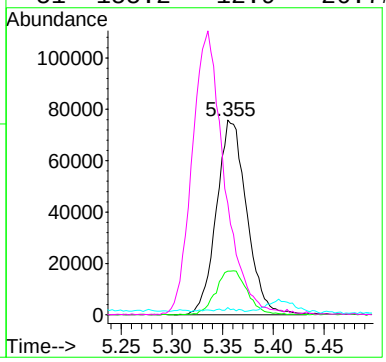


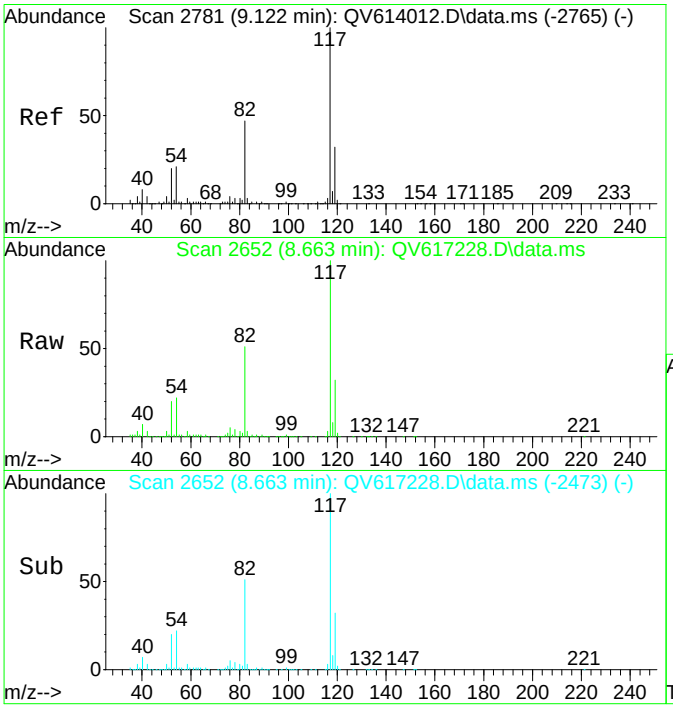


#39
Benzene
Concen: 0.89 ppb
RT: 5.355 min Scan# 1463
Delta R.T. 0.006 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 78 Resp: 157259

Ion	Ratio	Lower	Upper
78	100		
77	23.0	15.7	32.5
62	0.5	22.9	47.5#
51	155.2	12.9	26.7#

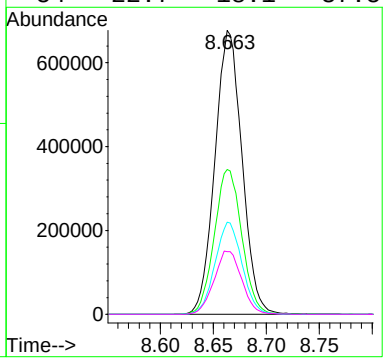


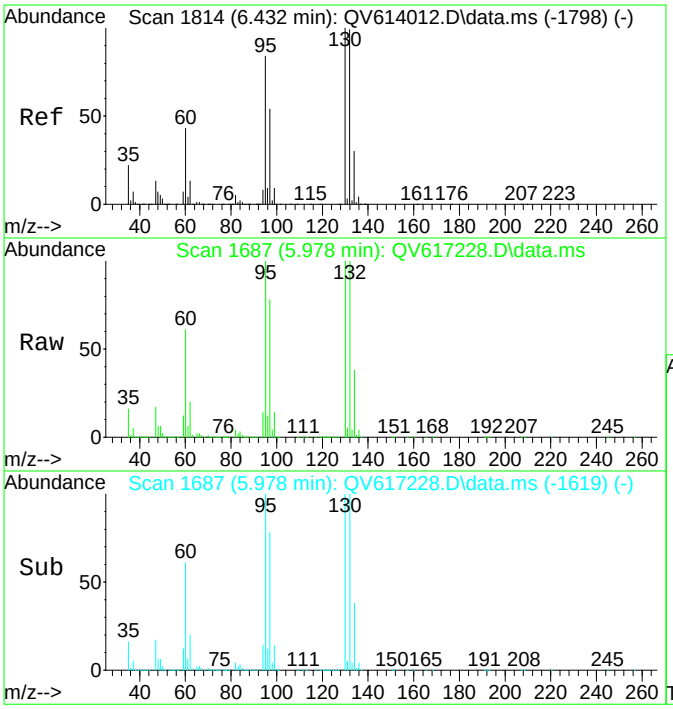


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.663 min Scan# 2652
Delta R.T. -0.003 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion:117 Resp: 1206454

Ion	Ratio	Lower	Upper
117	100		
82	51.7	34.5	71.7
119	32.3	20.9	43.3
54	22.7	18.1	37.5

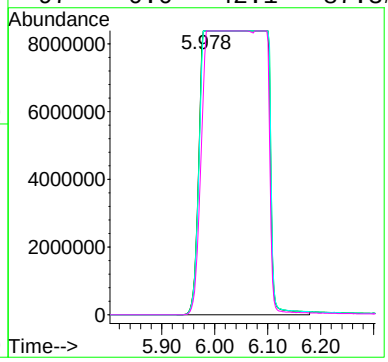


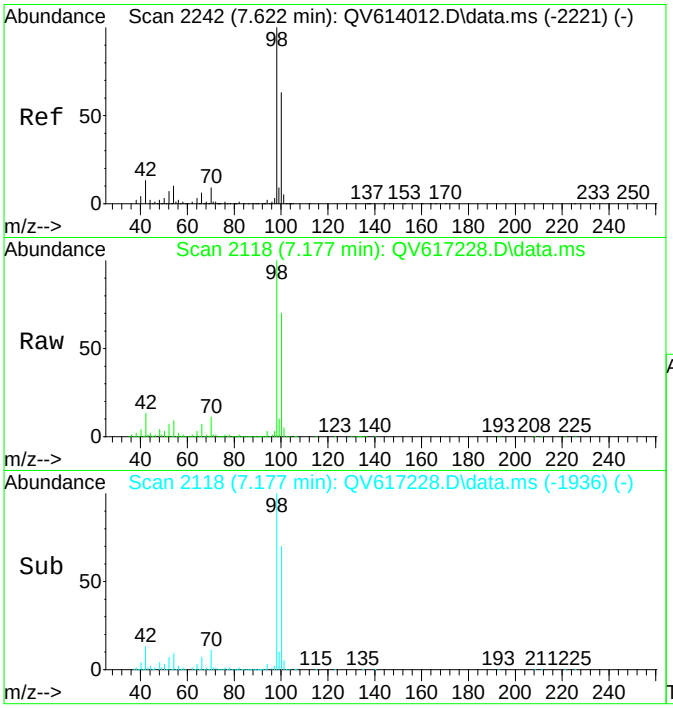


#42
Trichloroethylene
Concen: 1392.10 ppb m
RT: 5.978 min Scan# 1687
Delta R.T. -0.011 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 95 Resp:70051631

Ion	Ratio	Lower	Upper
95	100		
130	0.0	70.0	145.4#
132	0.0	69.6	144.6#
97	0.0	42.1	87.3#

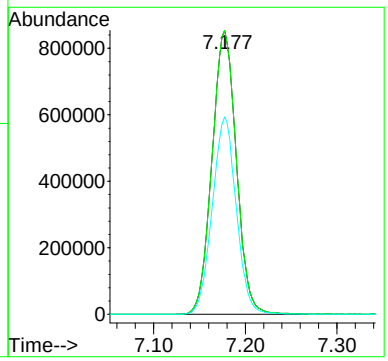


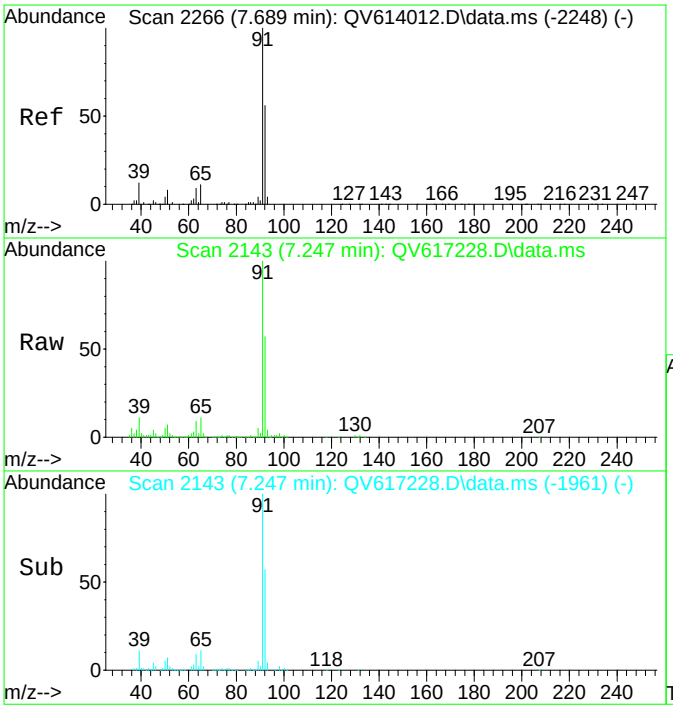


#53
Toluene-d8 (SURR)
Concen: 9.89 ppb
RT: 7.177 min Scan# 2118
Delta R.T. 0.005 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 98 Resp: 1569537

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	68.7	44.2	91.8

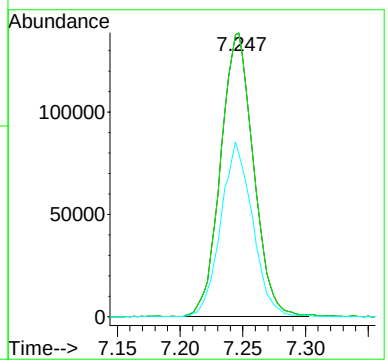


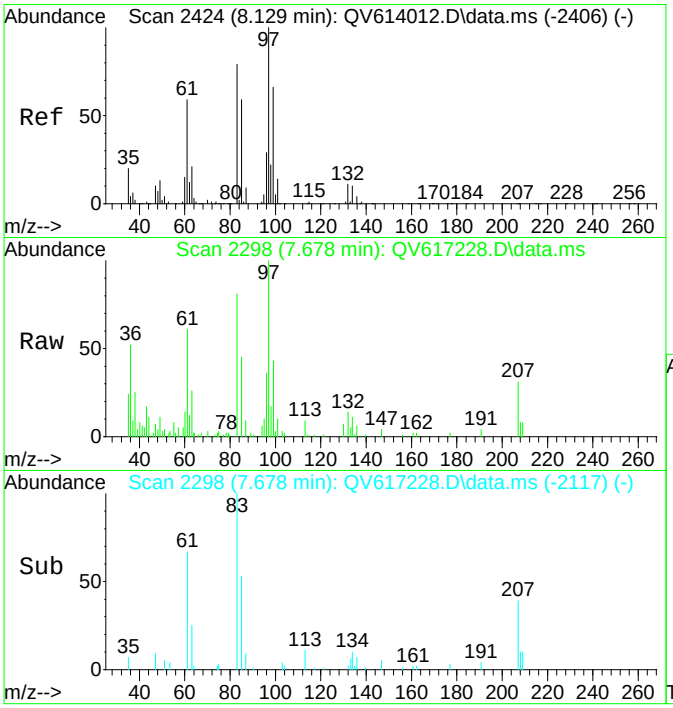


#54
Toluene
Concen: 1.41 ppb
RT: 7.247 min Scan# 2143
Delta R.T. 0.006 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 91 Resp: 250895

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
92	59.5	37.2	77.4

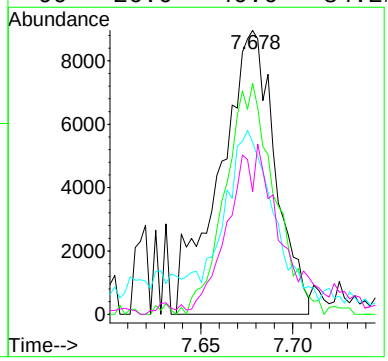


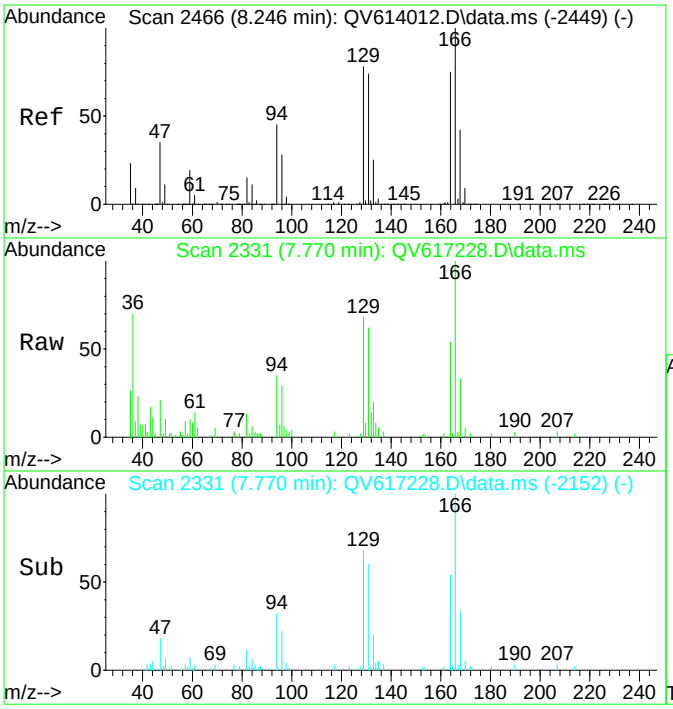


#57
1,1,2-Trichloroethane
Concen: 0.53 ppb
RT: 7.678 min Scan# 2298
Delta R.T. 0.003 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 97 Resp: 18842

Ion	Ratio	Lower	Upper
97	100		
83	72.4	56.3	116.9
61	50.1	47.8	99.4
99	26.0	40.6	84.2#

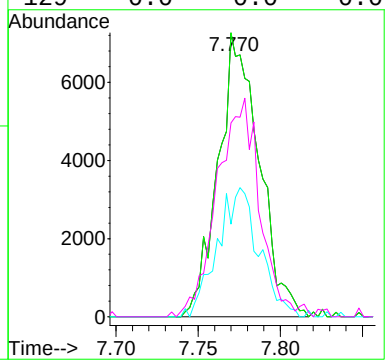


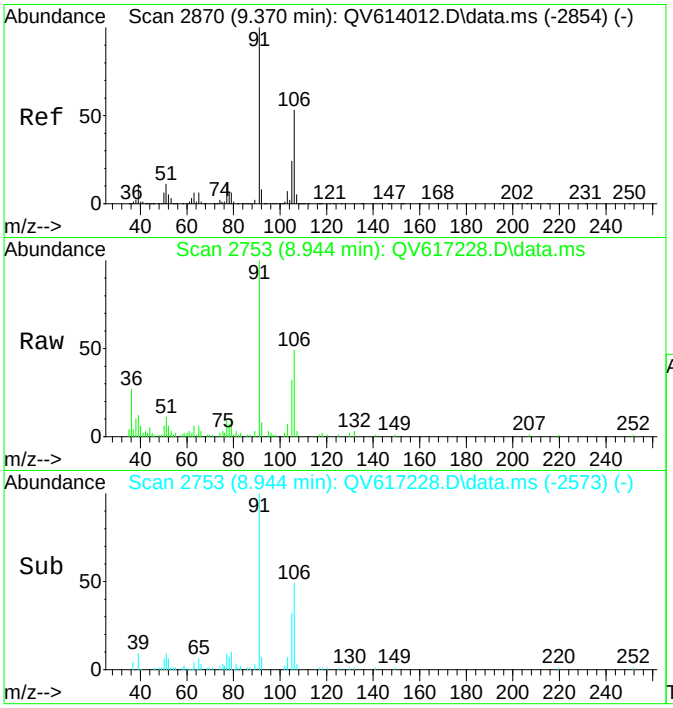


#59
Tetrachloroethylene
Concen: 0.23 ppb
RT: 7.770 min Scan# 2331
Delta R.T. -0.003 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion:166 Resp: 12568

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	0.0	31.7	65.7#
129	0.0	0.0	0.0

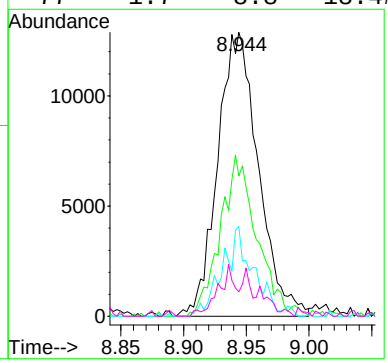


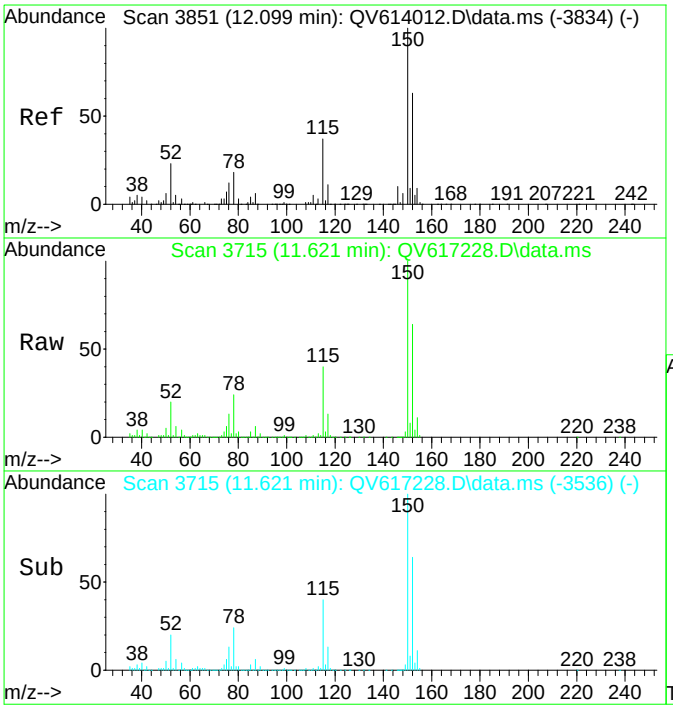


#66
p- & m-Xylenes
Concen: Below Cal
RT: 8.944 min Scan# 2753
Delta R.T. 0.000 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 91 Resp: 29043

Ion	Ratio	Lower	Upper
91	100		
106	49.9	34.1	70.9
105	23.8	16.2	33.6
77	1.7	8.8	18.4#

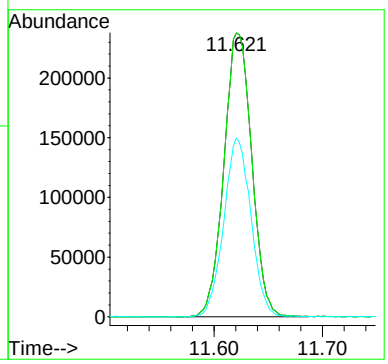


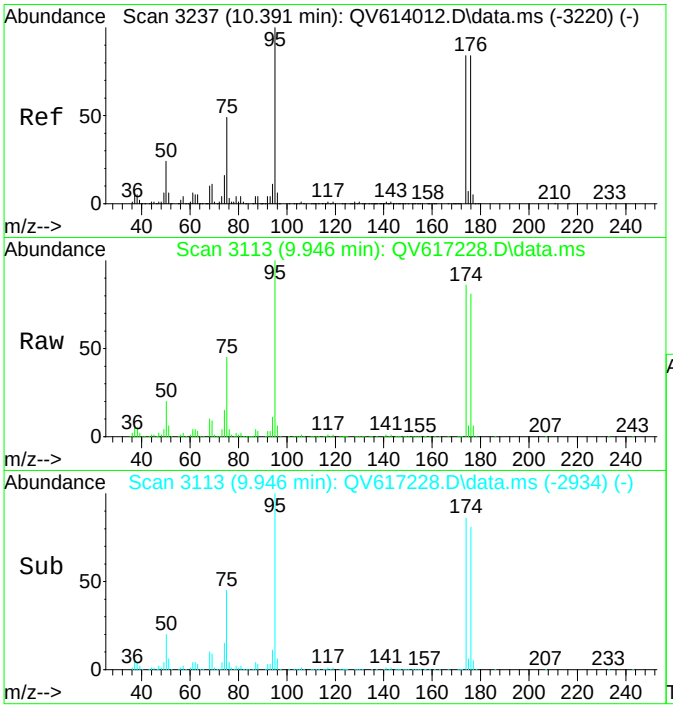


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.621 min Scan# 3715
Delta R.T. -0.002 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion:152 Resp: 425206

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	61.5	29.8	89.3

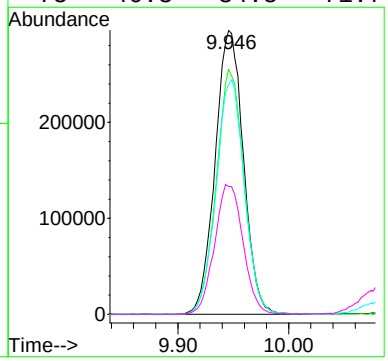


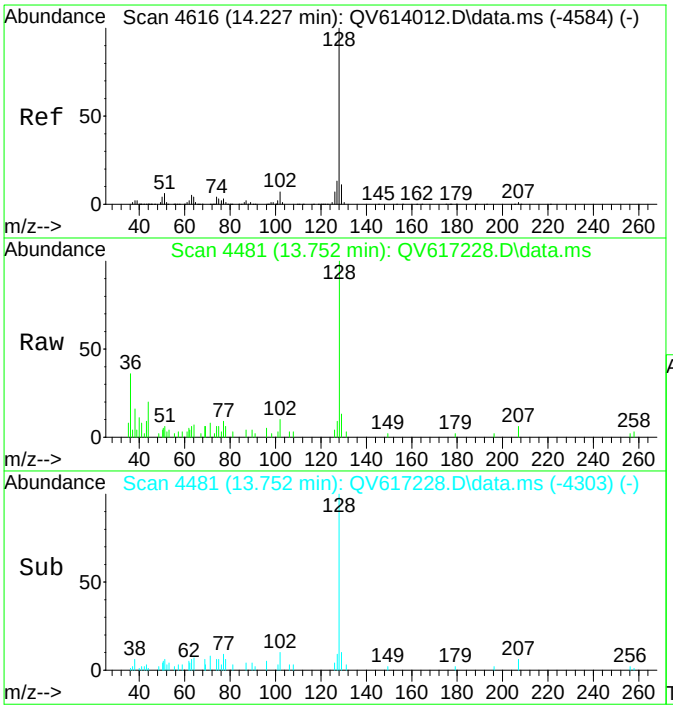


#73
p-Bromofluorobenzene (SURR)
Concen: 10.18 ppb
RT: 9.946 min Scan# 3113
Delta R.T. -0.002 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion: 95 Resp: 522703

Ion	Ratio	Lower	Upper
95	100		
174	85.4	62.5	129.9
176	82.5	60.7	126.1
75	46.3	34.5	71.7

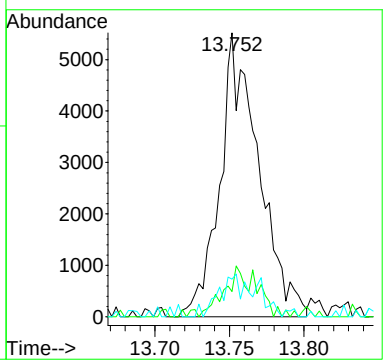




#98
Naphthalene
Concen: Below Cal
RT: 13.752 min Scan# 4481
Delta R.T. -0.005 min
Lab File: QV617228.D
Acq: 1 Nov 2019 5:11 am

Tgt Ion:128 Resp: 9990

Ion	Ratio	Lower	Upper
128	100		
127	9.7	8.9	18.5
129	10.0	7.3	15.3



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-DUP 1019

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19J1295-04RE1	File ID:	QV908493.D
Sampled:	10/29/19 00:00	Prepared:	10/30/19 06:14	Analyzed:	11/04/19 11:37
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BJ91944	Sequence:	Y9K0412	Calibration:	YJ90016
Instrument:	QVOA9				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-60-5	trans-1,2-Dichloroethylene	100	810	D
75-01-4	Vinyl Chloride	100	4000	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.2	102	69 - 130	D
SURR: Toluene-d8	10.0	9.74	97.4	81 - 117	D
SURR: p-Bromofluorobenzene	10.0	10.6	106	79 - 122	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	282536	5.863	272735	5.865	
ISTD: Chlorobenzene-d5	1077440	8.92	1008143	8.92	
ISTD: 1,2-Dichlorobenzene-d4	254420	11.916	255911	11.919	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908493.D
Acq On : 4 Nov 2019 11:37 am
Operator : LLJ
Sample : 19J1295-04RE1
Misc : QBQV9102519A 8260 C 500UL/50ML
ALS Vial : 10 Sample Multiplier: 100

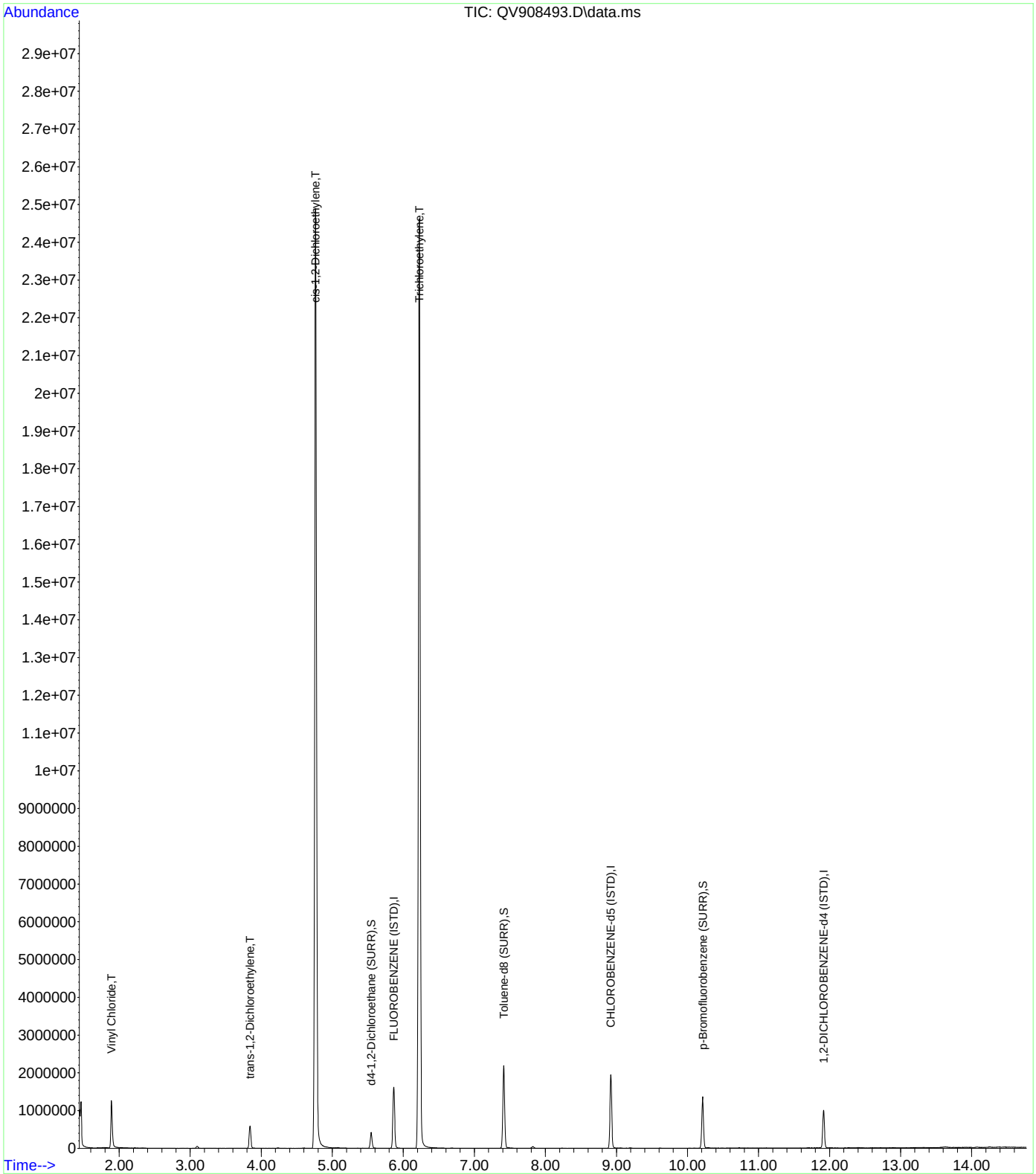
Quant Time: Nov 04 11:54:06 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

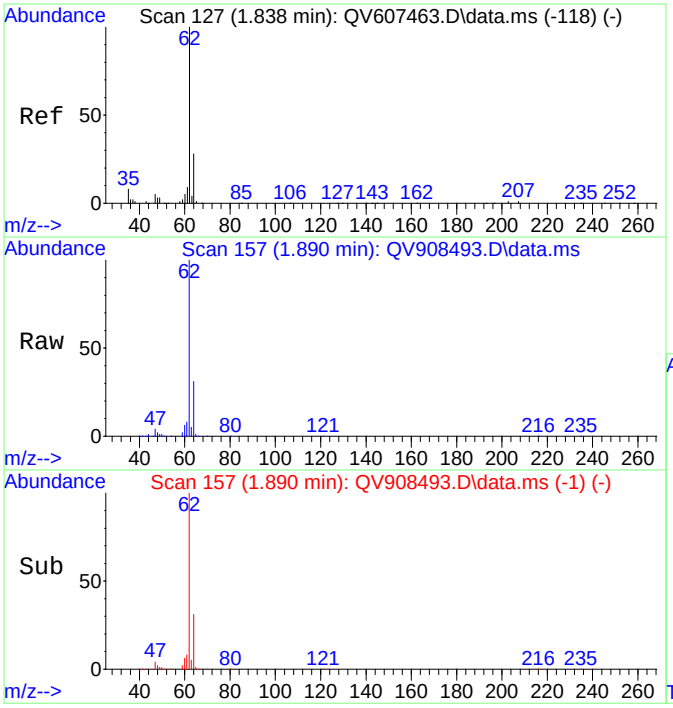
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.863	70	282536	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	8.920	117	1077440	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.916	152	254420	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.549	65	286942	10.19	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 101.90%			
51) Toluene-d8 (SURR)	7.415	98	1482403	9.74	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 97.40%			
70) p-Bromofluorobenzene (...	10.213	95	509934	10.61	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 106.10%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.890	62	1148235	40.42	ppb	# 98
19) trans-1,2-Dichloroethy...	3.840	61	321131	8.07	ppb	# 89
25) cis-1,2-Dichloroethylene	4.764	61	14496703	303.79	ppb	# 84
41) Trichloroethylene	6.226	95	8433042	250.85	ppb	# 72

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

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908493.D
Acq On : 4 Nov 2019 11:37 am
Operator : LLJ
Sample : 19J1295-04RE1
Misc : QBQV9102519A 8260 C 500UL/50ML
ALS Vial : 10 Sample Multiplier: 100

Quant Time: Nov 04 11:54:06 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

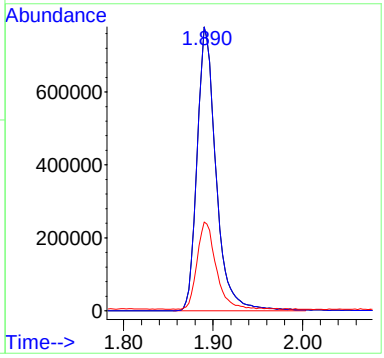


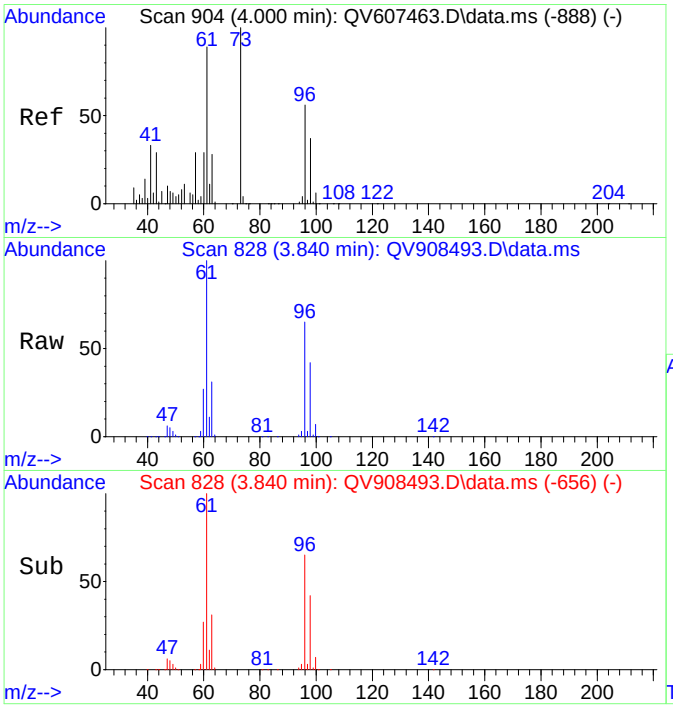


#4
Vinyl Chloride
Concen: 40.42 ppb
RT: 1.890 min Scan# 157
Delta R.T. 0.000 min
Lab File: QV908493.D
Acq: 4 Nov 2019 11:37 am

Tgt Ion: 62 Resp: 1148235

Ion	Ratio	Lower	Upper
62	100		
62	100.0	65.0	135.0
64	30.5	1.3	2.7#

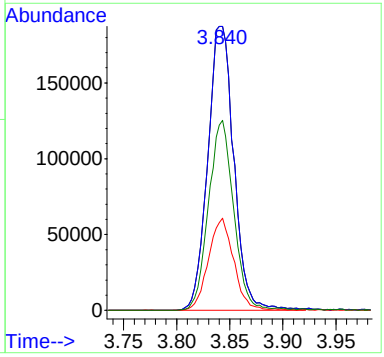


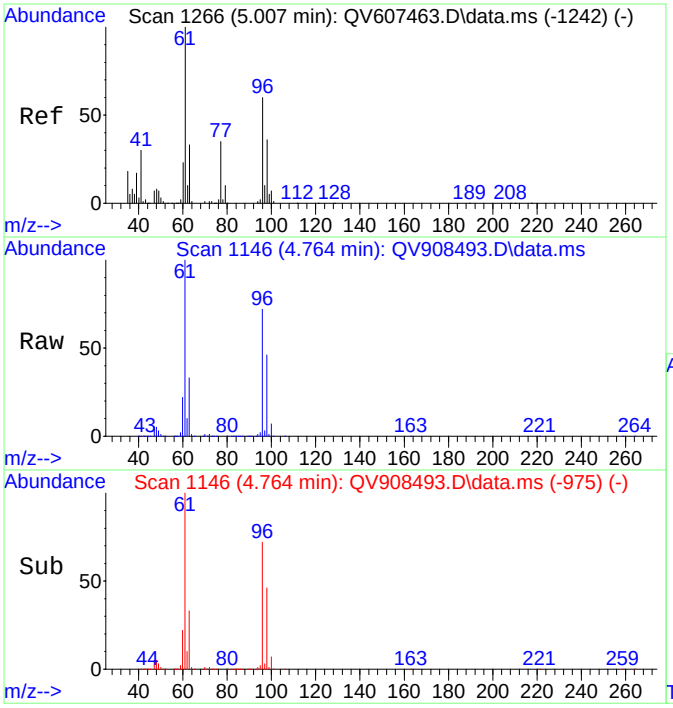


#19
trans-1,2-Dichloroethylene
Concen: 8.07 ppb
RT: 3.840 min Scan# 828
Delta R.T. 0.000 min
Lab File: QV908493.D
Acq: 4 Nov 2019 11:37 am

Tgt Ion: 61 Resp: 321131

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	0.0	0.0	0.0
96	0.0	17.4	36.0#

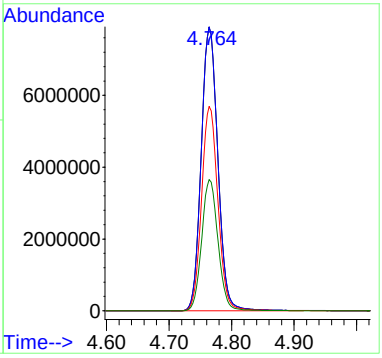


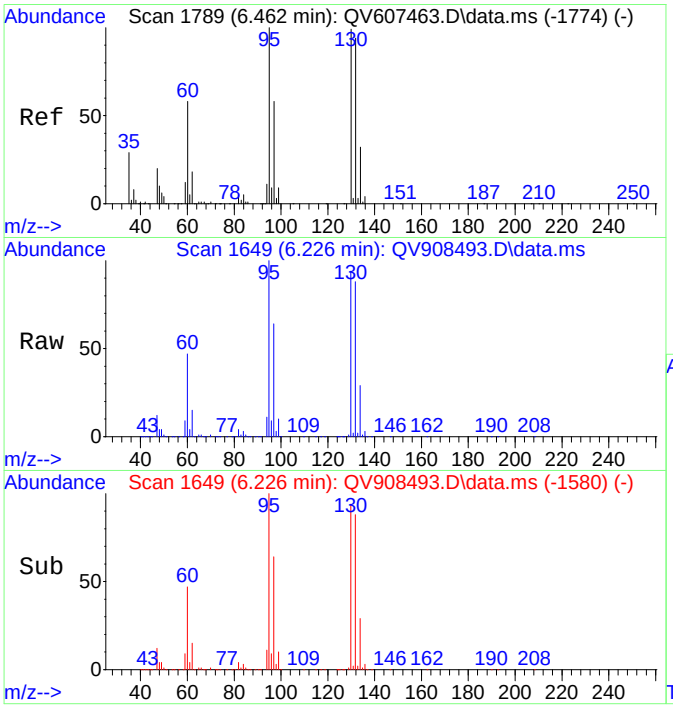


#25
cis-1,2-Dichloroethylene
Concen: 303.79 ppb
RT: 4.764 min Scan# 1146
Delta R.T. -0.003 min
Lab File: QV908493.D
Acq: 4 Nov 2019 11:37 am

Tgt Ion: 61 Resp:14496703

Ion	Ratio	Lower	Upper
61	100		
61	100.0	58.6	121.6
96	70.9	0.0	0.0#
98	45.4	17.2	35.6#

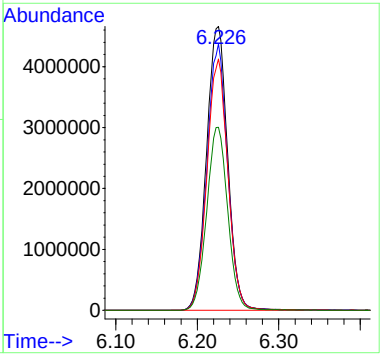




#41
Trichloroethylene
Concen: 250.85 ppb
RT: 6.226 min Scan# 1649
Delta R.T. -0.000 min
Lab File: QV908493.D
Acq: 4 Nov 2019 11:37 am

Tgt Ion: 95 Resp: 8433042

Ion	Ratio	Lower	Upper
95	100		
130	91.9	76.1	158.1
132	87.4	74.4	154.4
97	64.1	22.2	46.2#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-DUP 1019

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19J1295-04RE2	File ID:	QV908496.D
Sampled:	10/29/19 00:00	Prepared:	10/30/19 06:14	Analyzed:	11/04/19 12:59
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BJ91944	Sequence:	Y9K0412	Calibration:	YJ90016
Instrument:	QVOA9				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	1000	35000	D
79-01-6	Trichloroethylene	1000	28000	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.99	99.9	69 - 130	D
SURR: Toluene-d8	10.0	9.83	98.3	81 - 117	D
SURR: p-Bromofluorobenzene	10.0	10.5	105	79 - 122	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	276179	5.863	272735	5.865	
ISTD: Chlorobenzene-d5	1030893	8.923	1008143	8.92	
ISTD: 1,2-Dichlorobenzene-d4	249033	11.916	255911	11.919	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908496.D
Acq On : 4 Nov 2019 12:59 pm
Operator : LLJ
Sample : 19J1295-04RE2
Misc : QBQV9102519A 8260 C 50UL/50ML
ALS Vial : 13 Sample Multiplier: 1000

Quant Time: Nov 04 13:16:22 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

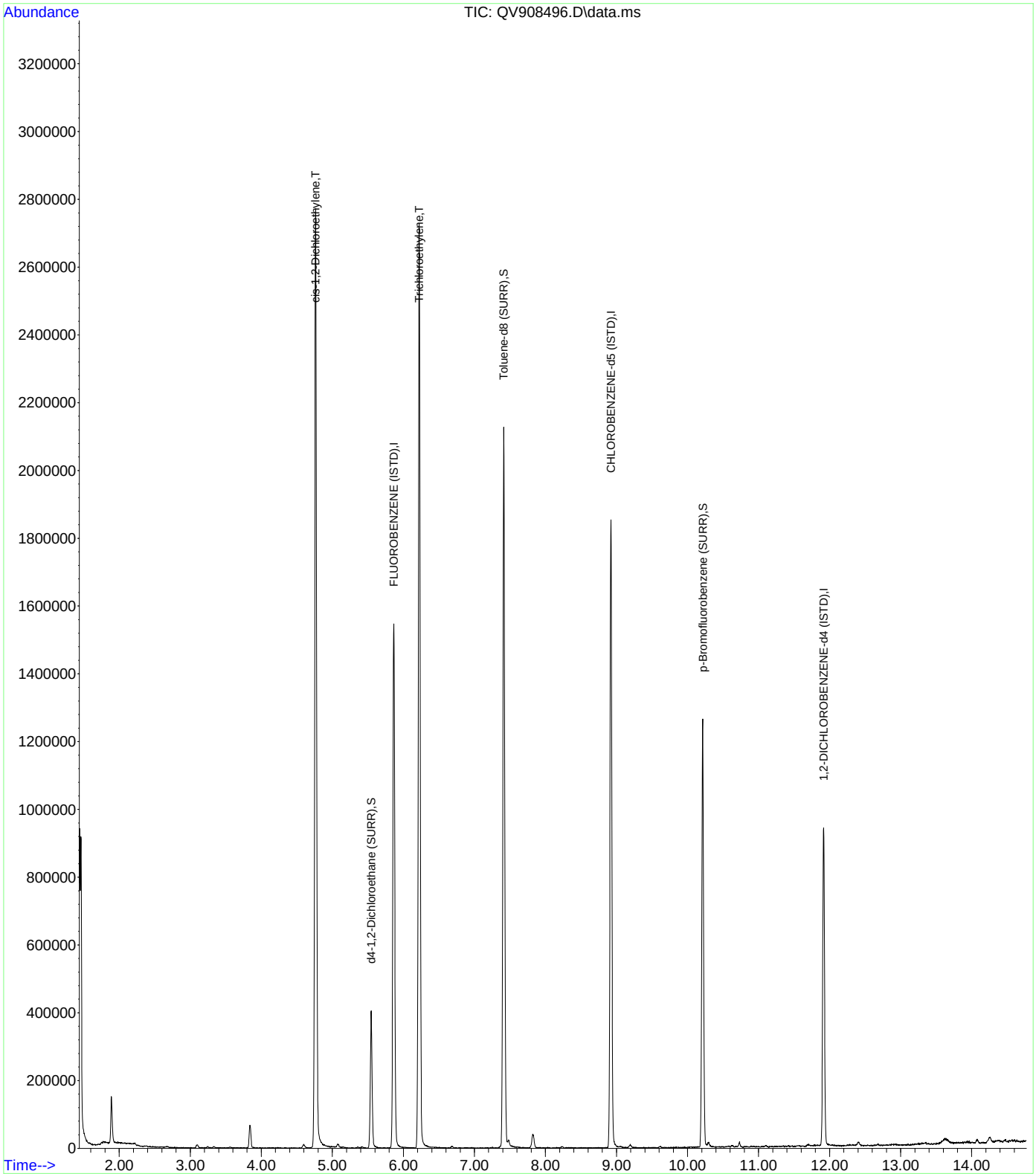
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.863	70	276179	10.00	ppb	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.923	117	1030893	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.916	152	249033	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.549	65	274933	9.99	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 99.90%			
51) Toluene-d8 (SURR)	7.411	98	1430852	9.83	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 98.30%			
70) p-Bromofluorobenzene (...	10.213	95	493143	10.48	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 104.80%			
Target Compounds						Qvalue
25) cis-1,2-Dichloroethylene	4.764	61	1615569	34.63	ppb	# 84
41) Trichloroethylene	6.223	95	912693	28.38	ppb	# 73

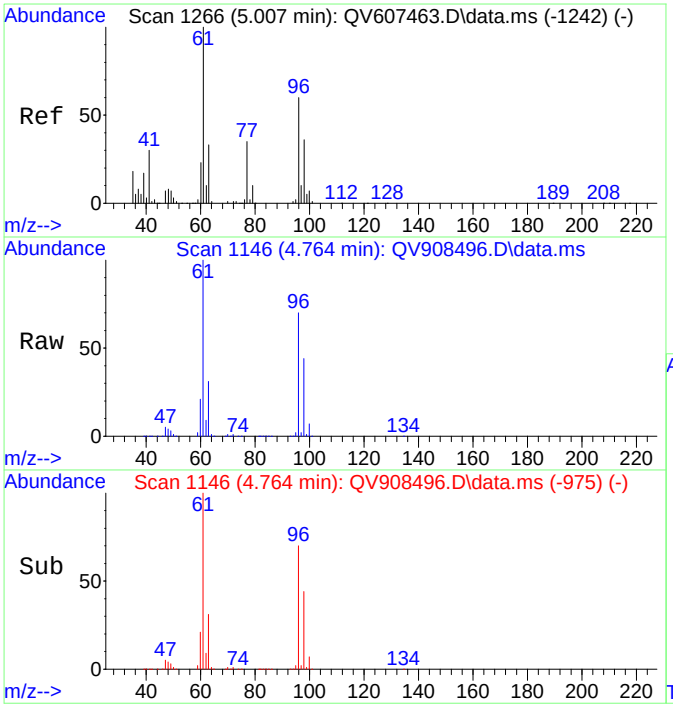
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908496.D
Acq On : 4 Nov 2019 12:59 pm
Operator : LLJ
Sample : 19J1295-04RE2
Misc : QBQV9102519A 8260 C 50UL/50ML
ALS Vial : 13 Sample Multiplier: 1000

Quant Time: Nov 04 13:16:22 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

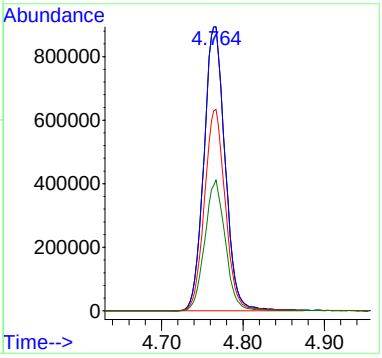


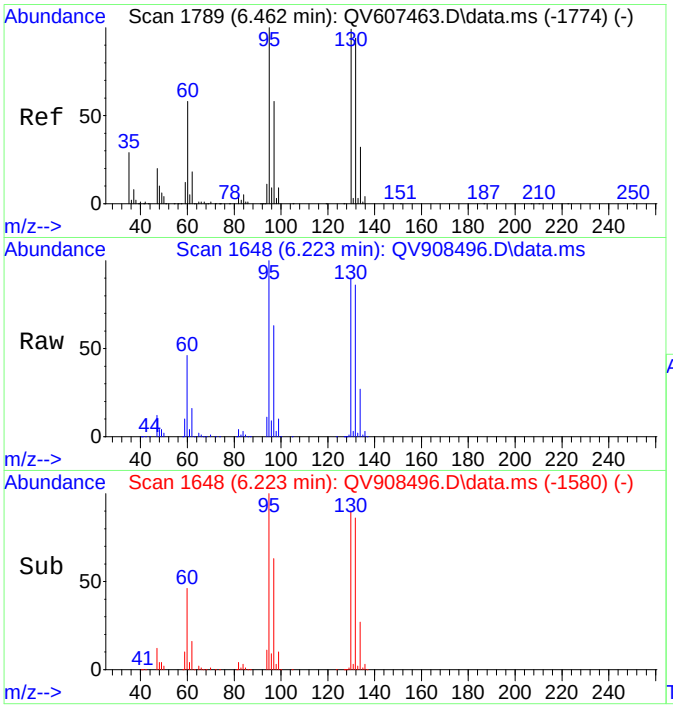


#25
cis-1,2-Dichloroethylene
Concen: 34.63 ppb
RT: 4.764 min Scan# 1146
Delta R.T. -0.003 min
Lab File: QV908496.D
Acq: 4 Nov 2019 12:59 pm

Tgt Ion: 61 Resp: 1615569

Ion	Ratio	Lower	Upper
61	100		
61	100.0	58.6	121.6
96	69.8	0.0	0.0#
98	44.4	17.2	35.6#

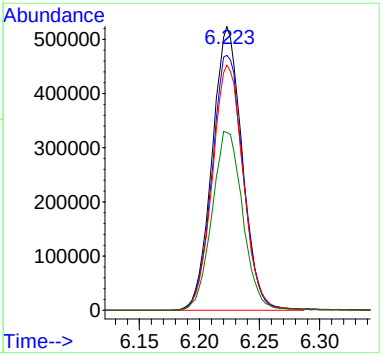




#41
Trichloroethylene
Concen: 28.38 ppb
RT: 6.223 min Scan# 1648
Delta R.T. -0.003 min
Lab File: QV908496.D
Acq: 4 Nov 2019 12:59 pm

Tgt Ion: 95 Resp: 912693

Ion	Ratio	Lower	Upper
95	100		
130	92.8	76.1	158.1
132	88.8	74.4	154.4
97	64.5	22.2	46.2#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-TRIP BLANK 1019

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19J1295-05	File ID:	QV617219.D
Sampled:	10/29/19 10:00	Prepared:	10/30/19 06:14	Analyzed:	11/01/19 01:15
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BJ91821	Sequence:	Y9K0408	Calibration:	YJ90014
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-TRIP BLANK 1019

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	19J1295-05	File ID:	QV617219.D
Sampled:	10/29/19 10:00	Prepared:	10/30/19 06:14	Analyzed:	11/01/19 01:15
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BJ91821	Sequence:	Y9K0408	Calibration:	YJ90014
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.87	98.7	69 - 130	
SURR: Toluene-d8	10.0	9.86	98.6	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.60	96.0	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	320092	5.633	314424	5.633	
ISTD: Chlorobenzene-d5	1144547	8.663	1165318	8.663	
ISTD: 1,2-Dichlorobenzene-d4	433480	11.621	436278	11.621	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617219.D
Acq On : 1 Nov 2019 1:15 am
InstName : MSVOA6
Operator : LLJ
Sample : 19J1295-05
Misc : QBQV6103119B 8260 A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 04 09:52:47 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration

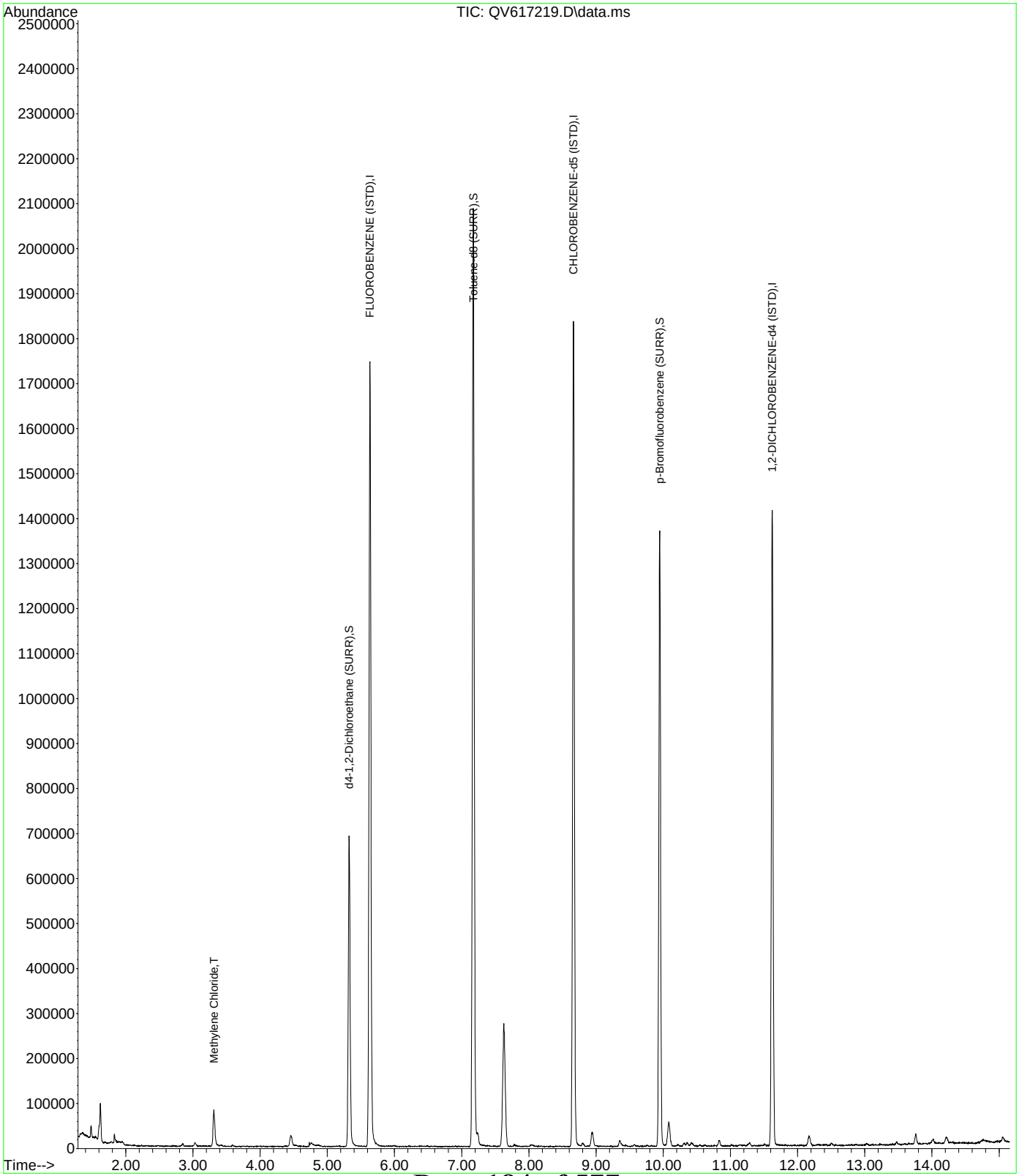
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.633	70	320092	10.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.663	117	1144547	10.00	ppb	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.621	152	433480	10.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.324	65	437715	9.87	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 98.70%			
53) Toluene-d8 (SURR)	7.175	98	1484443	9.86	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 98.60%			
73) p-Bromofluorobenzene (...	9.949	95	502717	9.60	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 96.00%			
Target Compounds						Qvalue
12) Acetone	2.851	43	5952	Below Cal	#	93
18) Methylene Chloride	3.310	49	53033	0.88	ppb	87
27) 2-Butanone	4.512	72	207	Below Cal	#	95
66) p- & m-Xylenes	8.941	91	24189	Below Cal		98
98) Naphthalene	13.757	128	20234	Below Cal	#	93

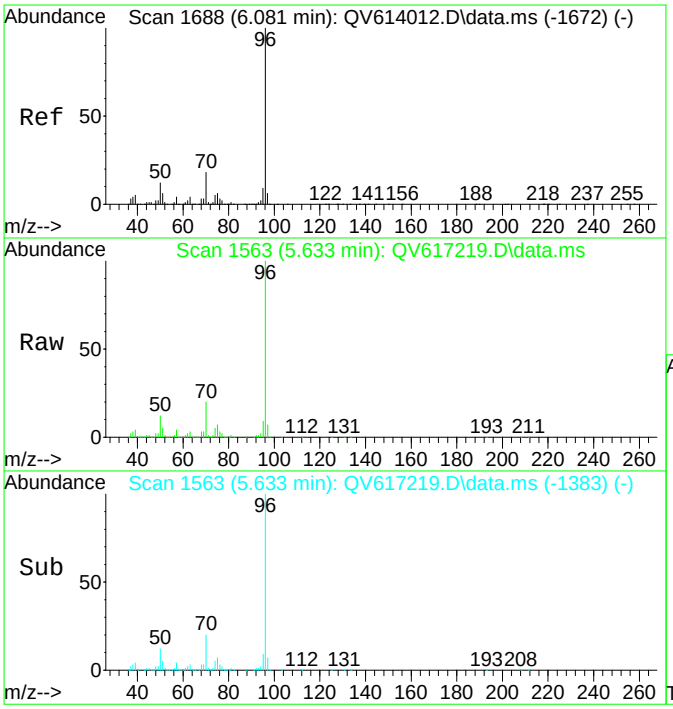
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617219.D
Acq On : 1 Nov 2019 1:15 am
InstName : MSVOA6
Operator : LLJ
Sample : 19J1295-05
Misc : QBQV6103119B 8260 A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 04 09:52:47 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration

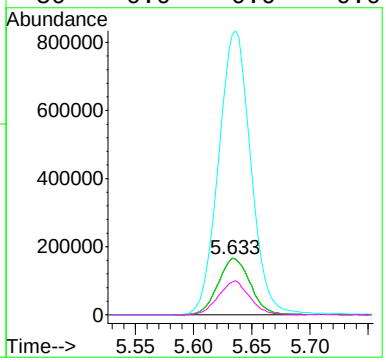


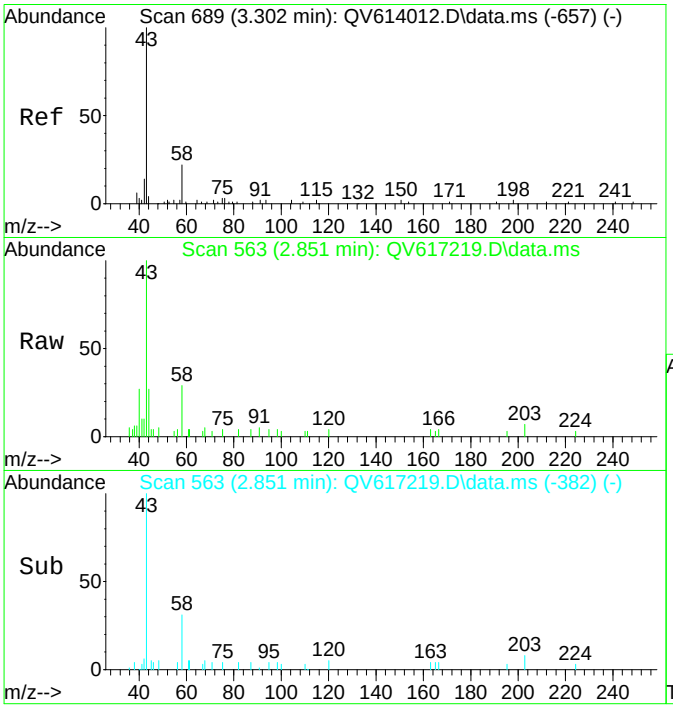


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.633 min Scan# 1563
Delta R.T. 0.000 min
Lab File: QV617219.D
Acq: 1 Nov 2019 1:15 am

Tgt Ion: 70 Resp: 320092

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	0.0	341.1	708.3#
50	0.0	0.0	0.0

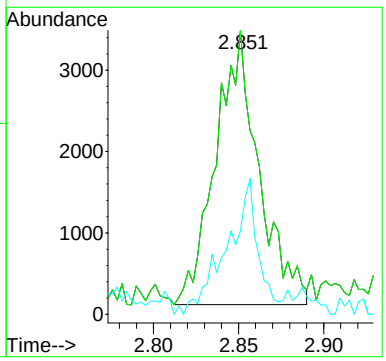


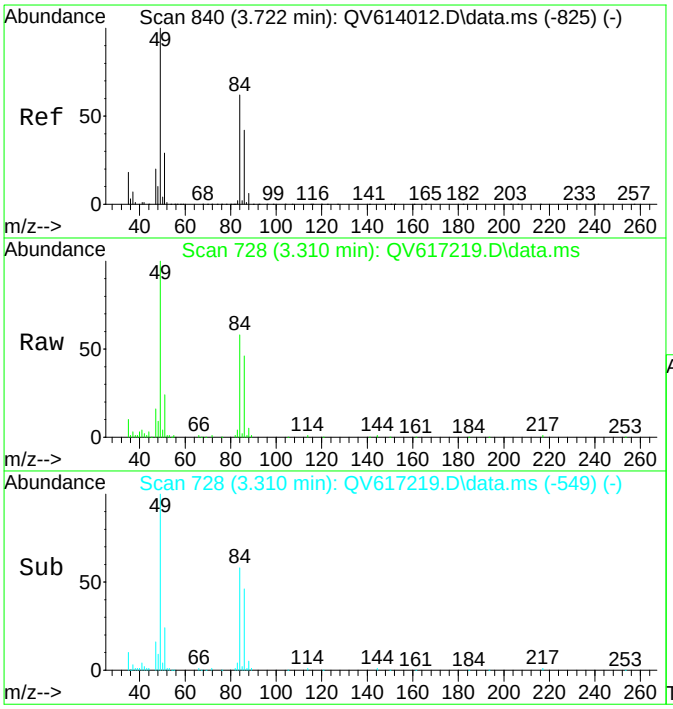


#12
Acetone
Concen: Below Cal
RT: 2.851 min Scan# 563
Delta R.T. 0.003 min
Lab File: QV617219.D
Acq: 1 Nov 2019 1:15 am

Tgt Ion: 43 Resp: 5952

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	35.6	6.0	18.1#

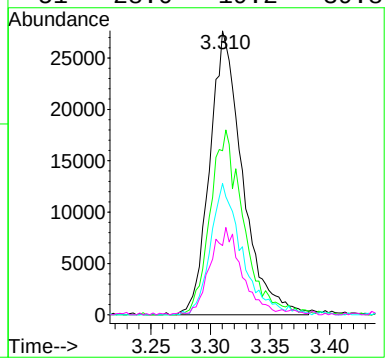


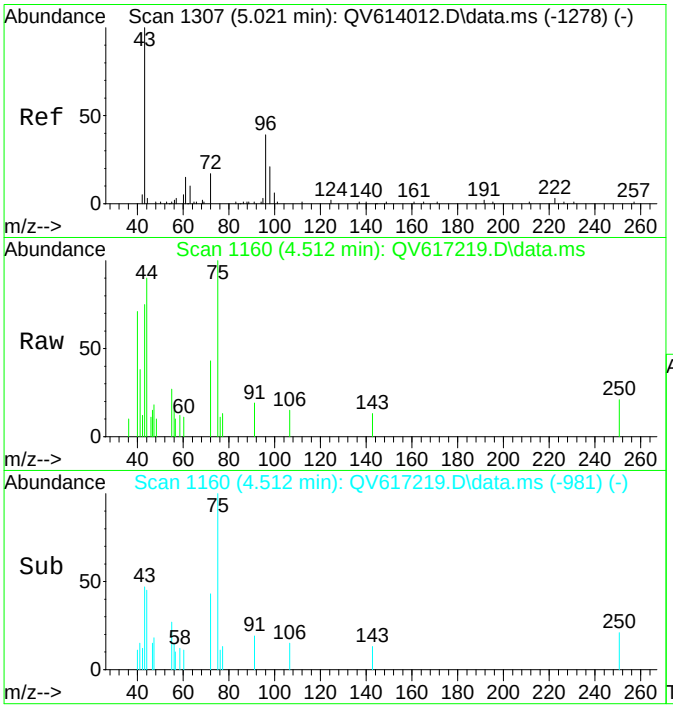


#18
Methylene Chloride
Concen: 0.88 ppb
RT: 3.310 min Scan# 728
Delta R.T. -0.003 min
Lab File: QV617219.D
Acq: 1 Nov 2019 1:15 am

Tgt Ion: 49 Resp: 53033

Ion	Ratio	Lower	Upper
49	100		
84	65.8	35.0	72.8
86	43.7	22.7	47.3
51	28.0	19.2	39.8

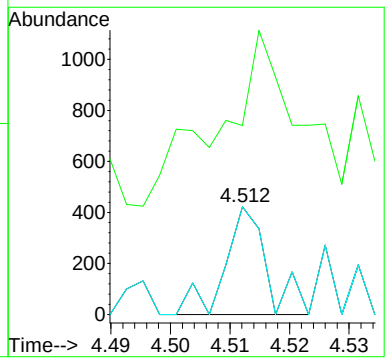


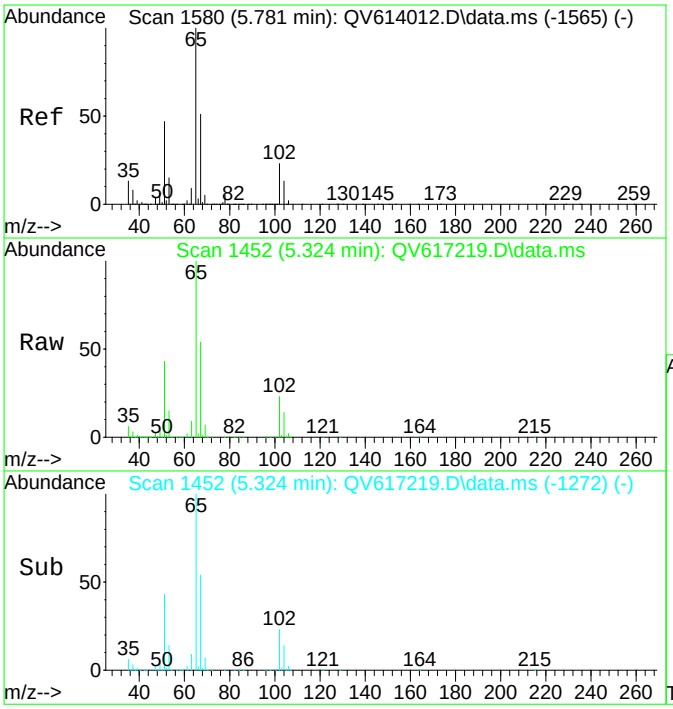


#27
2-Butanone
Concen: Below Cal
RT: 4.512 min Scan# 1160
Delta R.T. -0.003 min
Lab File: QV617219.D
Acq: 1 Nov 2019 1:15 am

Tgt Ion: 72 Resp: 207

Ion	Ratio	Lower	Upper
72	100		
43	185.0	0.0	0.0#
72	100.0	47.4	142.3

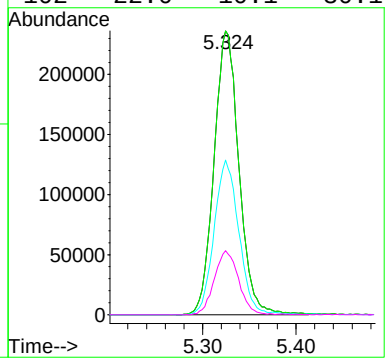


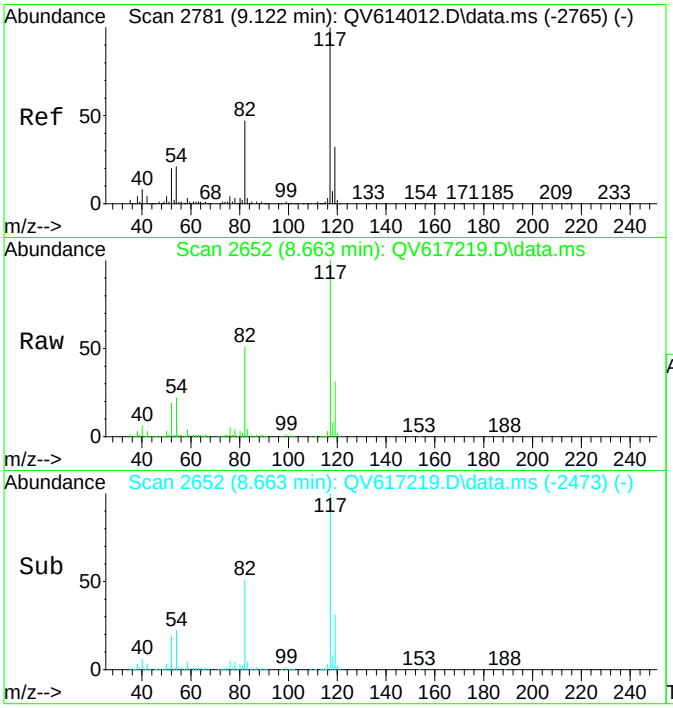


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.87 ppb
RT: 5.324 min Scan# 1452
Delta R.T. 0.000 min
Lab File: QV617219.D
Acq: 1 Nov 2019 1:15 am

Tgt Ion: 65 Resp: 437715

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	53.6	34.0	70.6
102	22.0	10.1	30.1

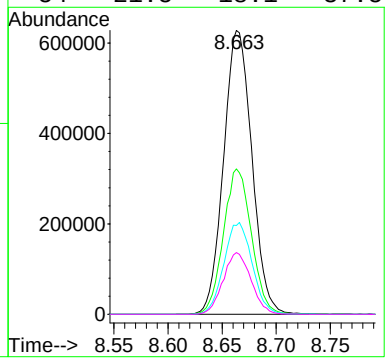


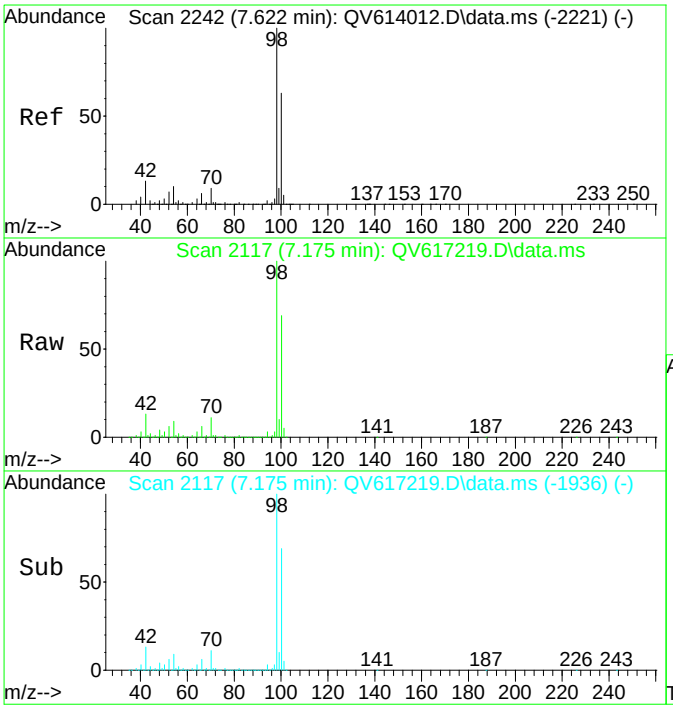


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.663 min Scan# 2652
Delta R.T. -0.003 min
Lab File: QV617219.D
Acq: 1 Nov 2019 1:15 am

Tgt Ion:117 Resp: 1144547

Ion	Ratio	Lower	Upper
117	100		
82	50.7	34.5	71.7
119	32.3	20.9	43.3
54	21.5	18.1	37.5

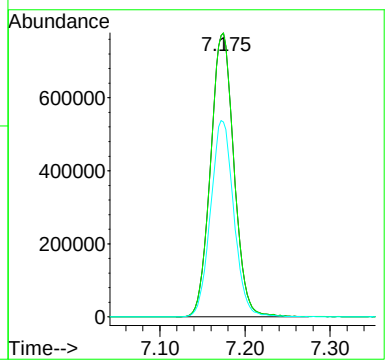


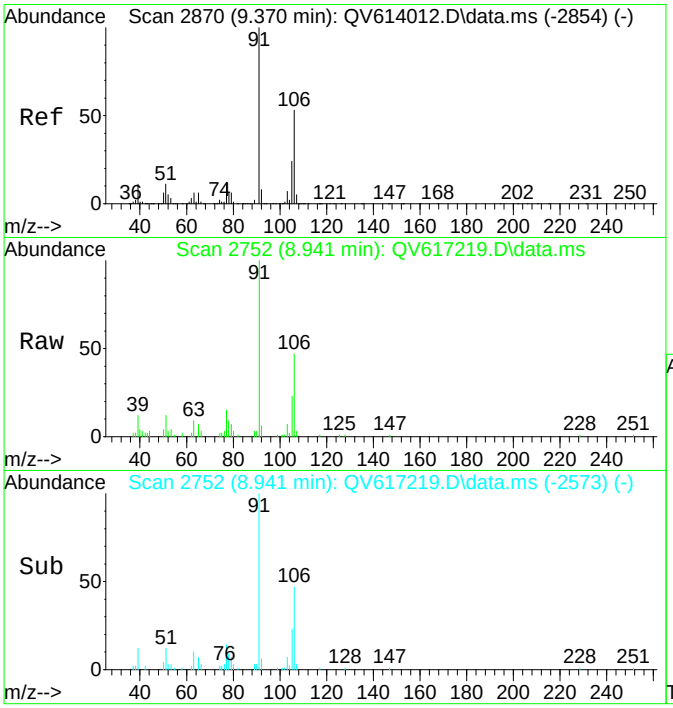


#53
Toluene-d8 (SURR)
Concen: 9.86 ppb
RT: 7.175 min Scan# 2117
Delta R.T. 0.003 min
Lab File: QV617219.D
Acq: 1 Nov 2019 1:15 am

Tgt Ion: 98 Resp: 1484443

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	68.7	44.2	91.8

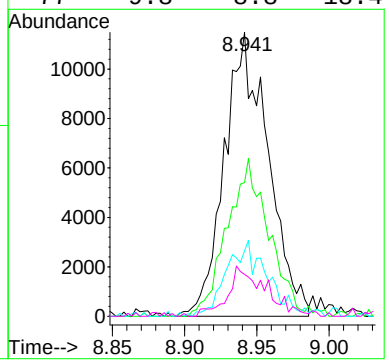


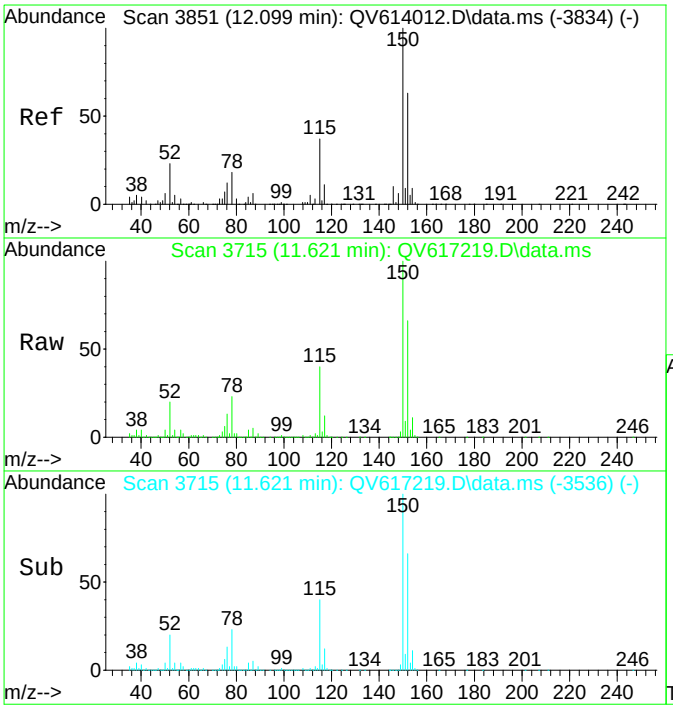


#66
p- & m-Xylenes
Concen: Below Cal
RT: 8.941 min Scan# 2752
Delta R.T. -0.003 min
Lab File: QV617219.D
Acq: 1 Nov 2019 1:15 am

Tgt Ion: 91 Resp: 24189

Ion	Ratio	Lower	Upper
91	100		
106	52.5	34.1	70.9
105	23.2	16.2	33.6
77	9.8	8.8	18.4

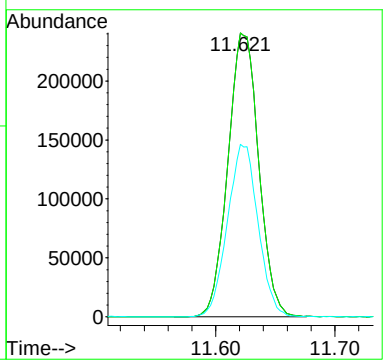


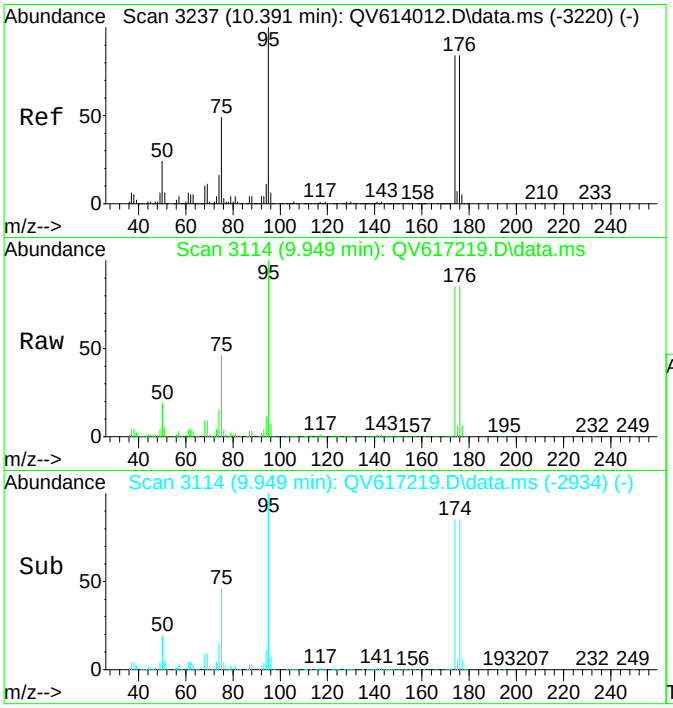


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.621 min Scan# 3715
Delta R.T. -0.002 min
Lab File: QV617219.D
Acq: 1 Nov 2019 1:15 am

Tgt Ion:152 Resp: 433480

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	60.4	29.8	89.3

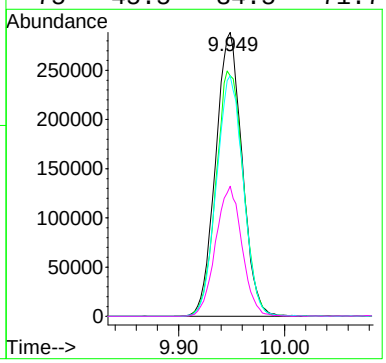


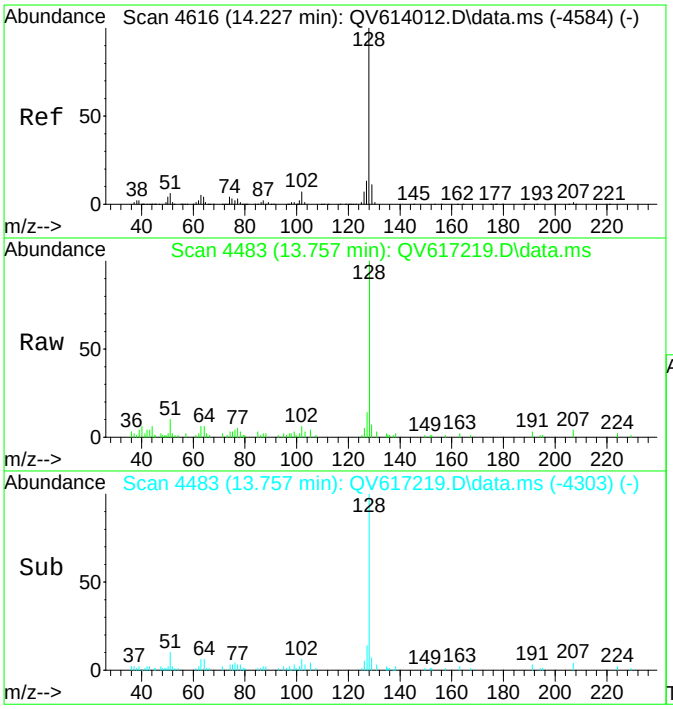


#73
p-Bromofluorobenzene (SURR)
Concen: 9.60 ppb
RT: 9.949 min Scan# 3114
Delta R.T. 0.001 min
Lab File: QV617219.D
Acq: 1 Nov 2019 1:15 am

Tgt Ion: 95 Resp: 502717

Ion	Ratio	Lower	Upper
95	100		
174	88.7	62.5	129.9
176	85.6	60.7	126.1
75	45.5	34.5	71.7

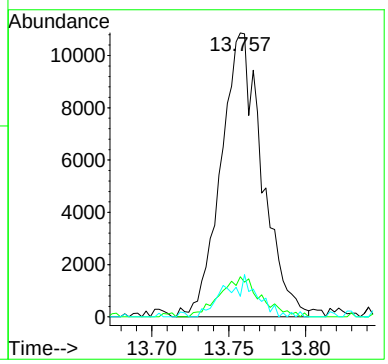




#98
Naphthalene
Concen: Below Cal
RT: 13.757 min Scan# 4483
Delta R.T. 0.000 min
Lab File: QV617219.D
Acq: 1 Nov 2019 1:15 am

Tgt Ion:128 Resp: 20234

Ion	Ratio	Lower	Upper
128	100		
127	14.0	8.9	18.5
129	5.4	7.3	15.3#



FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Calibration: YJ90014
Instrument: QVOA6
Calibration Date: 10/08/19 15:48

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1,1,2-Tetrachloroethane	0.5	0.3435394	2	0.3951141	4	0.3008746	10		20	0.4461746	40	0.3655
1,1,1-Trichloroethane	0.5	2.158869	2	2.391738	4	1.789683	10		20	2.6781	40	2.146239
1,1,2,2-Tetrachloroethane	0.5	0.7152088	2	0.8844379	4	0.6587781	10		20	0.9537291	40	0.7935189
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	0.5	1.101939	2	1.08692	4	0.9119638	10		20	1.404246	40	1.112117
1,1,2-Trichloroethane	0.5	0.2909658	2	0.3183602	4	0.2321148	10		20	0.3344913	40	0.2772337
1,1-Dichloroethane	0.5	2.573716	2	2.816327	4	2.109228	10		20	3.11201	40	2.497152
1,1-Dichloroethylene	0.5	2.003136	2	2.276891	4	1.717067	10		20	2.432369	40	1.940491
1,1-Dichloropropylene	0.5	1.855096	2	1.98711	4	1.530846	10		20	2.300016	40	1.858722
1,2,3-Trichlorobenzene	0.5		2		4		10		20		40	
1,2,3-Trichloropropane	0.5		2		4		10		20		40	
1,2,4,5-Tetramethylbenzene	0.5	2.242521	2	2.026402	4	1.754088	10		20	2.580307	40	2.13185
1,2,4-Trichlorobenzene	0.5	0.7309599	2	0.7797913	4	0.5876374	10		20	0.8238447	40	0.704416
1,2,4-Trimethylbenzene	0.5	3.296797	2	3.384529	4	2.547052	10		20	3.657109	40	2.960305
1,2-Dibromo-3-chloropropane	0.5	0.1265115	2	0.1633193	4	0.1142372	10		20	0.1651936	40	0.1392615
1,2-Dibromoethane	0.5	0.2621499	2	0.3025639	4	0.232677	10		20	0.3333903	40	0.2761416
1,2-Dichlorobenzene	0.5	1.560532	2	1.855881	4	1.378638	10		20	1.985649	40	1.632448
1,2-Dichloroethane	0.5	1.700866	2	1.888424	4	1.38191	10		20	2.032404	40	1.663342
1,2-Dichloropropane	0.5	0.4066375	2	0.4559725	4	0.343346	10		20	0.5012346	40	0.4146205
1,3,5-Trimethylbenzene	0.5	2.776969	2	3.407072	4	2.536072	10		20	3.644705	40	2.960575
1,3-Dichlorobenzene	0.5	1.723489	2	2.00278	4	1.510156	10		20	2.16436	40	1.776158
1,3-Dichloropropane	0.5	0.4662437	2	0.5329028	4	0.3944826	10		20	0.5691015	40	0.4700323
1,4-Dichlorobenzene	0.5	1.769485	2	2.049631	4	1.527148	10		20	2.197715	40	1.809325
1,4-Dioxane	10	2.67763E-03	40	3.03924E-03	80	1.775174E-03	200		400	2.609704E-03	800	2.121424E-03
2,2-Dichloropropane	0.5	2.171307	2	2.318981	4	1.753533	10		20	2.57159	40	2.044093
2-Butanone	0.5		2		4		10		20		40	
2-Chlorotoluene	0.5	2.675969	2	3.102069	4	2.325236	10		20	3.344139	40	2.708094
2-Hexanone	0.5	0.205856	2	0.2571453	4	0.1875962	10		20	0.2745881	40	0.2281131
4-Chlorotoluene	0.5	3.002721	2	3.557249	4	2.667875	10		20	3.86814	40	3.139013
4-Methyl-2-pentanone	0.5	0.4674185	2	0.5226428	4	0.37848	10		20	0.5528771	40	0.4624253
Acetone	0.5	0.6929926	2	0.526253	4	0.3533189	10		20	0.4464715	40	0.3481076
Acrolein	0.5	0.1158169	2	7.644063E-02	4	6.170143E-02	10		20	0.1016737	40	8.505996E-02

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 KINGSTON CVS

Calibration: YJ90014

Instrument: QVOA6

Calibration Date: 10/08/19 15:48

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acrylonitrile	0.5	0.3656159	2	0.3687634	4	0.2669654	10		20	0.3899706	40	0.3269514
Benzene	0.5	5.213671	2	5.631742	4	4.241309	10		20	6.178194	40	4.98438
Bromobenzene	0.5	1.52417	2	1.819469	4	1.375232	10		20	1.949824	40	1.602972
Bromochloromethane	0.5	1.305804	2	1.334572	4	1.001246	10		20	1.384775	40	1.109534
Bromodichloromethane	0.5	0.4970992	2	0.5387957	4	0.4088432	10		20	0.6047284	40	0.4997431
Bromoform	0.5	0.1740214	2	0.2025106	4	0.1578952	10		20	0.2421058	40	0.2050894
Bromomethane	0.5	0.822925	2	0.8159572	4	0.5710733	10		20	0.8033964	40	0.6856345
Carbon disulfide	0.5	3.855512	2	3.512662	4	2.590232	10		20	3.67589	40	2.943802
Carbon tetrachloride	0.5	1.991392	2	2.173815	4	1.640548	10		20	2.47486	40	1.986925
Chlorobenzene	0.5	0.9434361	2	1.067938	4	0.7987246	10		20	1.14758	40	0.9338451
Chloroethane	0.5	0.8675279	2	0.9388783	4	0.6943397	10		20	1.006843	40	0.8197779
Chloroform	0.5	2.566658	2	2.59816	4	1.947876	10		20	2.820258	40	2.286409
Chloromethane	0.5	1.373779	2	1.593225	4	1.096019	10		20	1.594654	40	1.304424
cis-1,2-Dichloroethylene	0.5	2.312174	2	2.522156	4	1.886876	10		20	2.774927	40	2.245237
cis-1,3-Dichloropropylene	0.5	0.5766612	2	0.6626996	4	0.4969647	10		20	0.7371815	40	0.6065329
Cyclohexane	0.5	2.131506	2	1.950192	4	1.768989	10		20	2.678694	40	1.973343
Dibromochloromethane	0.5	0.3264228	2	0.3785715	4	0.2820199	10		20	0.4268395	40	0.3549167
Dibromomethane	0.5	0.2119749	2	0.2358054	4	0.1723843	10		20	0.2535059	40	0.2102512
Dichlorodifluoromethane	0.5	0.8639411	2	1.134158	4	0.792954	10		20	1.133717	40	0.8634972
Ethyl Benzene	0.5	1.590962	2	1.77049	4	1.343249	10		20	1.938119	40	1.568395
Hexachlorobutadiene	0.5	0.1637947	2	0.1583064	4	0.1194186	10		20	0.1643029	40	0.1415151
Isopropylbenzene	0.5	3.770168	2	4.453134	4	3.351759	10		20	4.806052	40	3.863927
Methyl acetate	0.5	0.990634	2	0.804597	4	0.6519044	10		20	0.9654364	40	0.7808701
Methyl tert-butyl ether (MTBE)	0.5	3.335551	2	3.743075	4	2.760159	10		20	4.027257	40	3.281907
Methylcyclohexane	0.5	0.4631434	2	0.4800548	4	0.4215011	10		20	0.6439744	40	0.5382895
Methylene chloride	0.5	1.911095	2	2.014554	4	1.515495	10		20	2.195186	40	1.773333
Naphthalene	0.5		2		4		10		20		40	
n-Butylbenzene	0.5	2.21747	2	2.475682	4	1.919807	10		20	2.824129	40	2.358078
n-Propylbenzene	0.5	4.067009	2	4.855794	4	3.652417	10		20	5.220899	40	4.195343
o-Xylene	0.5	1.265845	2	1.40909	4	1.058095	10		20	1.530916	40	1.238114
p- & m- Xylenes	1	1.246844	4	1.371463	8	1.044744	20		40	1.498096	80	1.201568

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Calibration: YJ90014
Instrument: QVOA6
Calibration Date: 10/08/19 15:48

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
p-Diethylbenzene	0.5	1.195617	2	1.110132	4	0.9522229	10		20	1.429978	40	1.187179
p-Ethyltoluene	0.5	3.264792	2	3.08357	4	2.730612	10		20	3.886881	40	3.137759
p-Isopropyltoluene	0.5	2.445358	2	2.855556	4	2.215345	10		20	3.183361	40	2.617909
sec-Butylbenzene	0.5	2.600398	2	3.102492	4	2.381841	10		20	3.431587	40	2.826255
Styrene	0.5	0.9643709	2	1.103482	4	0.834096	10		20	1.226739	40	1.002124
SURR: 1,2-Dichloroethane-d4	10	1.389031	10	1.399604	10	1.376927	10	1.391912	10	1.409769	10	1.387925
SURR: p-Bromofluorobenzene	10	1.180361	10	1.247416	10	1.232149	10	1.242632	10	1.21643	10	1.205695
SURR: Toluene-d8	10	1.300747	10	1.299704	10	1.312733	10	1.305257	10	1.304858	10	1.323911
tert-Butyl alcohol (TBA)	0.5		2		4		10		20		40	
tert-Butylbenzene	0.5	2.707932	2	3.220059	4	2.404105	10		20	3.505203	40	2.853737
Tetrachloroethylene	0.5	0.4327937	2	0.4700484	4	0.3570248	10		20	0.5274189	40	0.433006
Toluene	0.5	1.585186	2	1.683392	4	1.262381	10		20	1.802097	40	1.461591
trans-1,2-Dichloroethylene	0.5	2.038193	2	2.075514	4	1.556633	10		20	2.310998	40	1.889652
trans-1,3-Dichloropropylene	0.5	0.5095492	2	0.5691495	4	0.4266539	10		20	0.6353089	40	0.5254521
trans-1,4-dichloro-2-butene	0.5		2		4		10		20		40	
Trichloroethylene	0.5	0.399409	2	0.4350038	4	0.3288765	10		20	0.4846468	40	0.3992965
Trichlorofluoromethane	0.5	1.633528	2	1.985544	4	1.48725	10		20	2.204799	40	1.731857
Vinyl acetate	0.5	2.272083	2	2.003052	4	1.812988	10		20	2.721582	40	2.062575
Vinyl Chloride	0.5	1.416472	2	1.550493	4	1.12746	10		20	1.63792	40	1.296691

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Calibration: YJ90014
Instrument: QVOA6
Calibration Date: 10/08/19 15:48

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1,1,2-Tetrachloroethane	80	0.3565632	120	0.3707054	160	0.370525						
1,1,1-Trichloroethane	80	2.069686	120	2.231454	160	2.279802						
1,1,2,2-Tetrachloroethane	80	0.7881547	120	0.8068122	160	0.8224034						
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	80	1.095848	120	1.162007	160	1.206207						
1,1,2-Trichloroethane	80	0.2803489	120	0.297888	160	0.3005294						
1,1-Dichloroethane	80	2.29171	120	2.452412	160	2.515173						
1,1-Dichloroethylene	80	1.835432	120	1.968958	160	2.065286						
1,1-Dichloropropylene	80	1.809062	120	1.958662	160	2.009928						
1,2,3-Trichlorobenzene	80		120	0.5730256	160	0.5988195						
1,2,3-Trichloropropane	80		120	0.2367945	160	0.2438517						
1,2,4,5-Tetramethylbenzene	80	2.002671	120	2.105937	160	2.153287						
1,2,4-Trichlorobenzene	80	0.6693443	120	0.7253738	160	0.7681647						
1,2,4-Trimethylbenzene	80	2.728874	120	2.753444	160	2.523199						
1,2-Dibromo-3-chloropropane	80	0.1372174	120	0.1446163	160	0.1521499						
1,2-Dibromoethane	80	0.2777658	120	0.2931715	160	0.2960825						
1,2-Dichlorobenzene	80	1.535368	120	1.561248	160	1.535363						
1,2-Dichloroethane	80	1.639218	120	1.784119	160	1.750088						
1,2-Dichloropropane	80	0.4176032	120	0.4545459	160	0.4647578						
1,3,5-Trimethylbenzene	80	2.706697	120	2.730593	160	2.492716						
1,3-Dichlorobenzene	80	1.676101	120	1.733823	160	1.762323						
1,3-Dichloropropane	80	0.4734209	120	0.4990306	160	0.5039062						
1,4-Dichlorobenzene	80	1.705222	120	1.747966	160	1.778194						
1,4-Dioxane	1600	2.128882E-03	2400	2.199765E-03	3200	2.111721E-03						
2,2-Dichloropropane	80	1.96349	120	2.097142	160	2.131009						
2-Butanone	80		120	0.1252349	160	0.1251767						
2-Chlorotoluene	80	2.510112	120	2.53329	160	2.779435						
2-Hexanone	80	0.2320901	120	0.2416404	160	0.2445652						
4-Chlorotoluene	80	2.914886	120	2.923237	160	2.705385						
4-Methyl-2-pentanone	80	0.4759446	120	0.5004623	160	0.5019071						
Acetone	80	0.3454913	120	0.349553	160	0.340372						
Acrolein	80	9.032197E-02	120	9.852462E-02	160	9.881324E-02						

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Calibration: YJ90014 Instrument: QVOA6

Calibration Date: 10/08/19 15:48

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acrylonitrile	80	0.3300186	120	0.3495474	160	0.3539997						
Benzene	80	4.686217	120	4.557872	160	3.946356						
Bromobenzene	80	1.523945	120	1.580202	160	1.604244						
Bromochloromethane	80	1.079535	120	1.150478	160	1.181034						
Bromodichloromethane	80	0.5022124	120	0.5412689	160	0.5509844						
Bromoform	80	0.2098627	120	0.2250323	160	0.2323844						
Bromomethane	80	0.6811713	120	0.7730201	160	0.8536076						
Carbon disulfide	80	2.756412	120	2.963812	160	3.10089						
Carbon tetrachloride	80	1.92785	120	2.067043	160	2.093649						
Chlorobenzene	80	0.8999447	120	0.9329706	160	0.9016625						
Chloroethane	80	0.7780679	120	0.8475999	160	0.8897073						
Chloroform	80	2.206834	120	2.30732	160	2.286095						
Chloromethane	80	1.239987	120	1.364489	160	1.414147						
cis-1,2-Dichloroethylene	80	2.133183	120	2.2815	160	2.314556						
cis-1,3-Dichloropropylene	80	0.6065766	120	0.6497782	160	0.6538822						
Cyclohexane	80	2.044613	120	2.279944	160	2.196991						
Dibromochloromethane	80	0.3569258	120	0.3786246	160	0.3815577						
Dibromomethane	80	0.2164973	120	0.2231653	160	0.203199						
Dichlorodifluoromethane	80	0.8300253	120	0.870657	160	0.9002875						
Ethyl Benzene	80	1.431438	120	1.303469	160	1.131191						
Hexachlorobutadiene	80	0.131795	120	0.147705	160	0.1640568						
Isopropylbenzene	80	3.477327	120	3.27546	160	2.875301						
Methyl acetate	80	0.7910805	120	0.8315479	160	0.8413219						
Methyl tert-butyl ether (MTBE)	80	3.324142	120	3.52381	160	3.47387						
Methylcyclohexane	80	0.5300485	120	0.5717891	160	0.5756683						
Methylene chloride	80	1.716918	120	1.86718	160	1.911806						
Naphthalene	80		120	1.703939	160	1.724619						
n-Butylbenzene	80	2.174413	120	2.281381	160	2.318925						
n-Propylbenzene	80	3.738861	120	3.360039	160	2.930851						
o-Xylene	80	1.169704	120	1.175546	160	1.06259						
p- & m- Xylenes	160	1.048977	240	0.8767682	320	0.7338924						

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Calibration: YJ90014 Instrument: QVOA6

Calibration Date: 10/08/19 15:48

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
p-Diethylbenzene	80	1.102489	120	1.176373	160	1.227714						
p-Ethyltoluene	80	2.868276	120	2.867129	160	2.78744						
p-Isopropyltoluene	80	2.404936	120	2.482661	160	2.418095						
sec-Butylbenzene	80	2.578002	120	2.660169	160	2.543509						
Styrene	80	0.954292	120	0.9769713	160	0.9230811						
SURR: 1,2-Dichloroethane-d4	10	1.389833	10	1.386231	10	1.333047						
SURR: p-Bromofluorobenzene	10	1.185985	10	1.171373	10	1.187285						
SURR: Toluene-d8	10	1.321513	10	1.336874	10	1.334415						
tert-Butyl alcohol (TBA)	80		120	0.1235963	160	0.1136973						
tert-Butylbenzene	80	2.632675	120	2.71303	160	2.770109						
Tetrachloroethylene	80	0.42354	120	0.4549779	160	0.4609975						
Toluene	80	1.372732	120	1.309037	160	1.132362						
trans-1,2-Dichloroethylene	80	1.809156	120	1.919382	160	1.968673						
trans-1,3-Dichloropropylene	80	0.5300075	120	0.5627211	160	0.5664662						
trans-1,4-dichloro-2-butene	80		120	0.9260019	160	0.9562422						
Trichloroethylene	80	0.3941293	120	0.4308926	160	0.4493346						
Trichlorofluoromethane	80	1.663288	120	1.758716	160	1.836385						
Vinyl acetate	80	2.100977	120	2.209262	160	2.264587						
Vinyl Chloride	80	1.229043	120	1.318188	160	1.381919						

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Calibration: YJ90014
Instrument: QVOA6
Calibration Date: 10/08/19 15:48

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.3686245	11.27787	8.7965	1.983746E-02			20	
1,1,1-Trichloroethane	2.218196	11.55629	5.018125	2.105485E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.8028804	11.392	10.09088	2.843234E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.135156	12.16565	2.8435	0.0290454			SPCC (0.1)	
1,1,2-Trichloroethane	0.2914915	10.49156	7.675625	3.411959E-02			SPCC (0.1)	
1,1-Dichloroethane	2.545966	12.07654	4.0015	7.032657E-02			SPCC (0.2)	
1,1-Dichloroethylene	2.029954	11.36155	2.820125	4.952531E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.91368	11.34407	5.1715	3.049698E-02			20	
1,2,3-Trichlorobenzene	0.5859225	3.11291	14.0145	1.855985E-02			20	
1,2,3-Trichloropropane	0.2403231	2.076386	10.153	6.515273E-03			20	
1,2,4,5-Tetramethylbenzene	2.124633	11.03226	12.5065	1.604458E-02			20	
1,2,4-Trichlorobenzene	0.7236915	10.05253	13.474	3.112569E-03			SPCC (0.2)	
1,2,4-Trimethylbenzene	2.981414	14.07904	10.88963	1.463429			20	
1,2-Dibromo-3-chloropropane	0.1428133	12.23752	12.53187	2.552426E-02			SPCC (0.05)	
1,2-Dibromoethane	0.2842428	10.49197	8.18325	2.896722E-02			SPCC (0.1)	
1,2-Dichlorobenzene	1.630641	12.00295	11.6465	2.453086E-02			SPCC (0.4)	
1,2-Dichloroethane	1.730046	11.02312	5.400125	2.571024E-02			SPCC (0.1)	
1,2-Dichloropropane	0.4323397	11.04464	6.227875	2.107363E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	2.906925	14.21064	10.42175	2.312958E-02			20	
1,3-Dichlorobenzene	1.793649	11.25227	11.14163	1.750526E-02			SPCC (0.6)	
1,3-Dichloropropane	0.4886401	10.58297	7.837625	1.690573E-02			20	
1,4-Dichlorobenzene	1.823086	11.4283	11.25975	2.714617E-02			SPCC (0.5)	
1,4-Dioxane	2.332943E-03	17.43735	6.297	5.350537E-02			20	
2,2-Dichloropropane	2.131393	11.35922	4.5435	2.371473E-02			20	
2-Butanone	0.1252058	4.254146E-02	4.515	0.0199506		1	SPCC (0.1)	
2-Chlorotoluene	2.747293	12.07181	10.30663	1.864702E-02			20	
2-Hexanone	0.2339493	11.80236	7.881125	1.186463E-02			SPCC (0.1)	
4-Chlorotoluene	3.097313	13.46763	10.441	1.380091E-02			20	
4-Methyl-2-pentanone	0.4827697	10.72232	7.037875	0.0253768			SPCC (0.1)	
Acetone	0.42532	29.8408	2.844375	4.416414E-02		0.9989577	SPCC (0.1)	
Acrolein	9.104406E-02	18.34912	2.713	0.0917293			20	
Acrylonitrile	0.343979	10.847	3.511875	4.560092E-02			20	

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Calibration:	YJ90014	Instrument:	QVOA6
		Calibration Date:	10/08/19 15:48

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	4.929968	14.89312	5.346	7.360793E-02			SPCC (0.5)	
Bromobenzene	1.622507	11.14676	10.08975	2.852519E-02			20	
Bromochloromethane	1.193372	11.33599	4.7615	2.399757E-02			20	
Bromodichloromethane	0.5179594	10.95022	6.48525	1.396206E-02			SPCC (0.2)	
Bromoform	0.2061127	13.87687	9.569375	1.331644E-02			SPCC (0.1)	
Bromomethane	0.7508482	12.80151	1.93075	0.1091835			SPCC (0.1)	
Carbon disulfide	3.174901	14.3289	3.032375	3.853511E-02			SPCC (0.1)	
Carbon tetrachloride	2.04451	11.51203	5.171875	0.0343545			SPCC (0.1)	
Chlorobenzene	0.9532627	11.29716	8.695625	1.365785E-02			SPCC (0.5)	
Chloroethane	0.8553427	11.22062	2.044	0.1109078			SPCC (0.1)	
Chloroform	2.377451	11.4176	4.86575	2.541443E-02			SPCC (0.2)	
Chloromethane	1.372591	12.2687	1.55225	0.1399993			SPCC (0.1)	
cis-1,2-Dichloroethylene	2.308826	11.30017	4.53775	0.0482374			SPCC (0.1)	
cis-1,3-Dichloropropylene	0.6237846	11.31183	6.90975	1.505221E-02			SPCC (0.2)	
Cyclohexane	2.128034	12.83854	5.097125	4.460729E-02			SPCC (0.1)	
Dibromochloromethane	0.3607348	11.88337	8.064625	2.159239E-02			SPCC (0.1)	
Dibromomethane	0.2158479	11.02728	6.3105	3.133076E-02			20	
Dichlorodifluoromethane	0.9236546	14.45754	1.35175	0.1041248			SPCC (0.1)	
Ethyl Benzene	1.509664	17.36796	8.80325	4.032787E-02			SPCC (0.1)	
Hexachlorobutadiene	0.1488618	11.34067	13.6535	2.034225E-02			20	
Isopropylbenzene	3.734141	17.07042	9.755875	2.606845E-02			SPCC (0.1)	
Methyl acetate	0.832174	12.88897	3.17325	6.492528E-02			SPCC (0.1)	
Methyl tert-butyl ether (MTBE)	3.433721	10.76306	3.5785	4.660376E-02			SPCC (0.1)	
Methylcyclohexane	0.5280586	13.50442	6.221875	2.748016E-02			SPCC (0.1)	
Methylene chloride	1.863196	10.88968	3.311875	4.352801E-02			SPCC (0.1)	
Naphthalene	1.714279	0.8532931	13.757	1.625027E-02		1	0.99	
n-Butylbenzene	2.321236	11.20064	11.65288	1.809635E-02			20	
n-Propylbenzene	4.002652	18.90271	10.21512	2.111064E-02			20	
o-Xylene	1.238737	13.2136	9.35125	1.517167E-02			SPCC (0.3)	
p- & m- Xylenes	1.127794	22.41646	8.9435	6.745822E-02		0.998676	SPCC (0.1)	
p-Diethylbenzene	1.172713	11.50484	11.62862	1.562312E-02			20	
p-Ethyltoluene	3.078307	12.19415	10.35487	2.134095E-03			20	

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Calibration: YJ90014
Instrument: QVOA6
Calibration Date: 10/08/19 15:48

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
p-Isopropyltoluene	2.577903	11.90053	11.19712	1.607334E-02			20	
sec-Butylbenzene	2.765532	12.45802	11.01663	1.227429E-02			20	
Styrene	0.9981445	11.94007	9.37475	2.164612E-02			SPCC (0.3)	
SURR: 1,2-Dichloroethane-d4	1.38492	1.550443	5.325	0.0264452			20	
SURR: p-Bromofluorobenzene	1.207703	2.347675	9.947445	1.088474E-02			20	
SURR: Toluene-d8	1.315557	1.079861	7.173667	2.689877E-02			20	
tert-Butyl alcohol (TBA)	0.1186468	5.89961	3.4185	1.191185E-02			20	
tert-Butylbenzene	2.850856	12.27789	10.76788	0.0150146			20	
Tetrachloroethylene	0.4449759	10.83408	7.773625	2.326993E-02			SPCC (0.2)	
Toluene	1.451097	15.60158	7.2405	0.0482768			SPCC (0.4)	
trans-1,2-Dichloroethylene	1.946025	11.21174	3.589125	4.140288E-02			SPCC (0.1)	
trans-1,3-Dichloropropylene	0.5406635	11.10468	7.4765	1.667232E-02			SPCC (0.1)	
trans-1,4-dichloro-2-butene	0.9411221	2.27203	10.1475	2.320324E-02			20	
Trichloroethylene	0.4151986	11.15821	5.9885	9.90671E-03			SPCC (0.2)	
Trichlorofluoromethane	1.787671	12.48968	2.308625	0.0597795			SPCC (0.1)	
Vinyl acetate	2.180888	12.20357	4.049625	4.974834E-02			20	
Vinyl Chloride	1.369773	12.13516	1.621	1.217151E-02			SPCC (0.1)	

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Calibration: YJ90016
Instrument: QVOA9
Calibration Date: 10/16/19 12:25

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1,1,2-Tetrachloroethane	0.5	0.2480777	2	0.2495701	4	0.2374383	10	0.2792224	20	0.2628549	40	0.2598426
1,1,1-Trichloroethane	0.5	1.502875	2	1.71871	4	1.577258	10	1.775491	20	1.720258	40	1.758627
1,1,2,2-Tetrachloroethane	0.5	0.5646212	2	0.5689593	4	0.5381452	10	0.6105116	20	0.5842155	40	0.582344
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	0.5	0.8330231	2	0.6409637	4	0.8057546	10	0.8277977	20	0.8489236	40	0.8413164
1,1,2-Trichloroethane	0.5	0.1549109	2	0.1631996	4	0.1461738	10	0.1804816	20	0.1689345	40	0.1709038
1,1-Dichloroethane	0.5	1.810302	2	1.940632	4	1.775669	10	2.044276	20	1.966918	40	1.96695
1,1-Dichloroethylene	0.5	1.402299	2	1.583694	4	1.460928	10	1.593245	20	1.570669	40	1.509132
1,1-Dichloropropylene	0.5	1.278629	2	1.394369	4	1.357411	10	1.486591	20	1.436247	40	1.469541
1,2,3-Trichlorobenzene	0.5	0.2718046	2	0.2257178	4	0.205603	10	0.2650551	20	0.270204	40	0.2726907
1,2,3-Trichloropropane	0.5	0.1825257	2	0.1717153	4	0.1617667	10	0.1796077	20	0.17071	40	0.1701304
1,2,4,5-Tetramethylbenzene	0.5	2.698567	2	2.262788	4	2.899308	10	3.10033	20	3.014145	40	3.036738
1,2,4-Trichlorobenzene	0.5	0.4683984	2	0.4696325	4	0.4118905	10	0.5180493	20	0.521437	40	0.5279464
1,2,4-Trimethylbenzene	0.5	4.398653	2	4.694812	4	4.357141	10	4.648268	20	4.370168	40	4.33593
1,2-Dibromo-3-chloropropane	0.5	5.068154E-02	2	9.056448E-02	4	8.434091E-02	10	0.1008164	20	9.943535E-02	40	9.605918E-02
1,2-Dibromoethane	0.5	0.1345864	2	0.1429323	4	0.1330952	10	0.159356	20	0.1511189	40	0.1539147
1,2-Dichlorobenzene	0.5	1.410245	2	1.547686	4	1.389879	10	1.607043	20	1.503124	40	1.466929
1,2-Dichloroethane	0.5	1.024605	2	1.104798	4	1.018085	10	1.204519	20	1.149489	40	1.151914
1,2-Dichloropropane	0.5	0.2749421	2	0.2907586	4	0.2720421	10	0.3206425	20	0.295179	40	0.2992851
1,3,5-Trimethylbenzene	0.5	4.621128	2	4.82694	4	4.58205	10	4.711734	20	4.531655	40	4.414891
1,3-Dichlorobenzene	0.5	1.780888	2	1.995255	4	1.834352	10	2.020225	20	1.937764	40	1.90381
1,3-Dichloropropane	0.5	0.2554764	2	0.2905978	4	0.2657233	10	0.3206989	20	0.2995951	40	0.3011514
1,4-Dichlorobenzene	0.5	1.729575	2	1.887818	4	1.771431	10	1.950011	20	1.850744	40	1.83063
1,4-Dioxane	10	5.350867E-04	40	3.468113E-04	80	4.555443E-04	200	5.01369E-04	400	4.891656E-04	800	4.311951E-04
2,2-Dichloropropane	0.5	1.606187	2	1.659548	4	1.533988	10	1.710502	20	1.676853	40	1.630699
2-Butanone	0.5	0.1898345	2	0.1120291	4	7.462539E-02	10	7.457637E-02	20	6.373419E-02	40	5.349669E-02
2-Chlorotoluene	0.5	4.037118	2	4.145773	4	3.87166	10	4.148917	20	3.904815	40	3.842213
2-Hexanone	0.5	6.986955E-02	2	7.322703E-02	4	6.414728E-02	10	9.021567E-02	20	7.931137E-02	40	7.553753E-02
4-Chlorotoluene	0.5	4.23272	2	4.630135	4	4.340885	10	4.595183	20	4.402012	40	4.348374
4-Methyl-2-pentanone	0.5	0.1059604	2	0.1033037	4	9.665168E-02	10	0.1245768	20	0.112809	40	0.1120186
Acetone	0.5	~~0.1752494~~	2	0.1787032	4	0.1344948	10	0.1798808	20	0.1479713	40	0.1071505
Acrolein	0.5	5.157968E-02	2	4.647895E-02	4	3.859407E-02	10	0.0463449	20	0.0492825	40	5.047046E-02

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41103.00 KINGSTON CVS

Calibration: YJ90016

Instrument: QVOA9

Calibration Date: 10/16/19 12:25

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acrylonitrile	0.5	2.218154E-02	2	1.017254E-02	4	2.180583E-02	10	2.384378E-02	20	0.0211018	40	2.170121E-02
Benzene	0.5	3.866121	2	4.208921	4	3.862626	10	4.401822	20	4.18005	40	4.19139
Bromobenzene	0.5	1.957191	2	2.000487	4	1.880614	10	2.049181	20	1.968738	40	1.975612
Bromochloromethane	0.5	0.5853799	2	0.6537964	4	0.6086119	10	0.6887024	20	0.6351424	40	0.5912609
Bromodichloromethane	0.5	0.315525	2	0.343906	4	0.3286173	10	0.3938262	20	0.3669854	40	0.3812231
Bromoform	0.5	7.843534E-02	2	8.718524E-02	4	8.085359E-02	10	0.1043438	20	0.1013909	40	0.1014614
Bromomethane	0.5	0.2811434	2	0.1370389	4	0.147848	10	0.1813766	20	0.1959878	40	0.224263
Carbon disulfide	0.5	2.687916	2	2.53255	4	2.304044	10	2.488418	20	2.457419	40	2.406228
Carbon tetrachloride	0.5	1.32398	2	1.398883	4	1.319554	10	1.429779	20	1.416389	40	1.428893
Chlorobenzene	0.5	0.716796	2	0.7764391	4	0.7375458	10	0.8492184	20	0.7877481	40	0.7920891
Chloroethane	0.5	0.5348638	2	0.4723768	4	0.557375	10	0.544817	20	0.5369933	40	0.5199075
Chloroform	0.5	1.753025	2	1.811742	4	1.675893	10	1.933651	20	1.83717	40	1.866752
Chloromethane	0.5	0.4629257	2	0.2361978	4	0.2792495	10	0.2929526	20	0.3126215	40	0.3854013
cis-1,2-Dichloroethylene	0.5	1.621987	2	1.736526	4	1.596268	10	1.822317	20	1.781201	40	1.748695
cis-1,3-Dichloropropylene	0.5	0.3805281	2	0.4046542	4	0.3801401	10	0.452433	20	0.4281623	40	0.4392781
Cyclohexane	0.5	4.084898	2	3.81933	4	3.994747	10	4.242765	20	4.158601	40	4.14921
Dibromochloromethane	0.5	0.1687395	2	0.1835098	4	0.1713838	10	0.2123312	20	0.202651	40	0.2093539
Dibromomethane	0.5	0.107766	2	0.1102667	4	0.1005778	10	0.1249508	20	0.1168161	40	0.1192733
Dichlorodifluoromethane	0.5	1.210641	2	0.9110324	4	1.15427	10	1.022597	20	1.063564	40	1.011539
Ethyl Benzene	0.5	1.385126	2	1.524008	4	1.423538	10	1.607706	20	1.508023	40	1.489816
Hexachlorobutadiene	0.5	0.2749609	2	0.2848684	4	0.2649809	10	0.2958039	20	0.299336	40	0.3010541
Isopropylbenzene	0.5	5.577495	2	6.029703	4	5.592611	10	5.756483	20	5.502568	40	5.467675
Methyl acetate	0.5	0.2898033	2	0.2070102	4	0.2382365	10	0.2752523	20	0.2760016	40	0.249379
Methyl tert-butyl ether (MTBE)	0.5	1.840232	2	1.948969	4	1.786297	10	2.165767	20	2.108244	40	2.115261
Methylcyclohexane	0.5	0.5296037	2	0.3876835	4	0.4946606	10	0.5108768	20	0.5040326	40	0.5219038
Methylene chloride	0.5	1.020123	2	1.116956	4	1.048649	10	1.186605	20	1.118643	40	1.10298
Naphthalene	0.5	~~1.523873~~	2	0.8451494	4	0.6668358	10	0.7695871	20	0.7591529	40	0.7524734
n-Butylbenzene	0.5	3.590904	2	4.21854	4	4.020935	10	4.521006	20	4.182706	40	4.250098
n-Propylbenzene	0.5		2	6.86441	4	6.440157	10	6.695721	20	6.449165	40	6.323438
o-Xylene	0.5	1.131147	2	1.233721	4	1.139476	10	1.312685	20	1.220678	40	1.190556
p- & m- Xylenes	1	1.128119	4	1.211435	8	1.135315	20	1.270581	40	1.20671	80	1.177757

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Calibration: YJ90016
Instrument: QVOA9
Calibration Date: 10/16/19 12:25

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
p-Diethylbenzene	0.5	2.007602	2	1.741843	4	2.113214	10	2.163533	20	2.126109	40	2.074239
p-Ethyltoluene	0.5	5.078254	2	3.701608	4	4.659305	10	4.742015	20	4.565477	40	4.613111
p-Isopropyltoluene	0.5	4.04776	2	4.723516	4	4.468196	10	4.686555	20	4.49578	40	4.347122
sec-Butylbenzene	0.5	4.775428	2	5.419685	4	5.105922	10	5.328174	20	5.14226	40	4.961593
Styrene	0.5	0.7383316	2	0.8286967	4	0.7794932	10	0.9250314	20	0.8746394	40	0.8588945
SURR: 1,2-Dichloroethane-d4	10	0.9652692	10	0.9631615	10	0.9623915	10	1.006044	10	1.012897	10	1.015764
SURR: p-Bromofluorobenzene	10	1.928703	10	1.874096	10	1.91333	10	1.807043	10	1.829441	10	1.815012
SURR: Toluene-d8	10	1.431942	10	1.433825	10	1.42528	10	1.410043	10	1.391937	10	1.39192
tert-Butyl alcohol (TBA)	0.5	4.588236E-02	2	3.926638E-02	4	3.596838E-02	10	5.322203E-02	20	5.232846E-02	40	3.955793E-02
tert-Butylbenzene	0.5	4.086718	2	4.504648	4	4.169354	10	4.403796	20	4.184692	40	4.048647
Tetrachloroethylene	0.5	0.3256322	2	0.3237727	4	0.310027	10	0.3414883	20	0.3240713	40	0.3330554
Toluene	0.5	1.387592	2	1.33941	4	1.237259	10	1.392946	20	1.296674	40	1.317295
trans-1,2-Dichloroethylene	0.5	1.32755	2	1.437213	4	1.334688	10	1.518701	20	1.480996	40	1.45416
trans-1,3-Dichloropropylene	0.5	0.2606291	2	0.2923185	4	0.2790173	10	0.3479304	20	0.3277923	40	0.339005
trans-1,4-dichloro-2-butene	0.5	4.193401E-02	2	4.937971E-02	4	4.495364E-02	10	4.227914E-02	20	3.985237E-02	40	0.0412982
Trichloroethylene	0.5	0.2949363	2	0.3135238	4	0.2912629	10	0.3316034	20	0.3098641	40	0.3197043
Trichlorofluoromethane	0.5	1.570407	2	1.180595	4	1.475126	10	1.24925	20	1.245878	40	1.194992
Vinyl acetate	0.5	0.7687575	2	0.7120403	4	0.6944145	10	0.8271531	20	0.870286	40	0.85723
Vinyl Chloride	0.5	1.047546	2	0.8304951	4	1.017977	10	0.9895721	20	1.013672	40	1.005941

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Calibration: YJ90016
Instrument: QVOA9
Calibration Date: 10/16/19 12:25

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1,1,2-Tetrachloroethane	80	0.2587045	120	0.2470704	160	0.2595884						
1,1,1-Trichloroethane	80	1.708433	120	1.649751	160	1.739944						
1,1,2,2-Tetrachloroethane	80	0.5987084	120	0.5854428	160	0.6285978						
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	80	0.8277944	120	0.7739599	160	0.8156341						
1,1,2-Trichloroethane	80	0.1675593	120	0.16518	160	0.1746803						
1,1-Dichloroethane	80	1.686429	120	1.505149	160	1.529828						
1,1-Dichloroethylene	80	1.466051	120	1.398471	160	1.465029						
1,1-Dichloropropylene	80	1.414867	120	1.342288	160	1.405403						
1,2,3-Trichlorobenzene	80	0.2845977	120	0.2962906	160	0.3312756						
1,2,3-Trichloropropane	80	0.17576	120	0.1702303	160	0.1828399						
1,2,4,5-Tetramethylbenzene	80	3.061584	120	2.92216	160	3.172092						
1,2,4-Trichlorobenzene	80	0.5446164	120	0.5403629	160	0.6050489						
1,2,4-Trimethylbenzene	80	4.311679	120	4.070751	160	4.238676						
1,2-Dibromo-3-chloropropane	80	9.681084E-02	120	9.514994E-02	160	0.1036027						
1,2-Dibromoethane	80	0.1518999	120	0.150296	160	0.1587012						
1,2-Dichlorobenzene	80	1.454062	120	1.403412	160	1.497107						
1,2-Dichloroethane	80	1.127214	120	1.091095	160	1.159181						
1,2-Dichloropropane	80	0.2912543	120	0.2819491	160	0.2915771						
1,3,5-Trimethylbenzene	80	4.673774	120	4.169316	160	4.255365						
1,3-Dichlorobenzene	80	1.929376	120	1.851728	160	1.999259						
1,3-Dichloropropane	80	0.2958828	120	0.2899283	160	0.3062168						
1,4-Dichlorobenzene	80	1.828201	120	1.758028	160	1.908436						
1,4-Dioxane	1600	4.762112E-04	2400	4.421753E-04	3200	5.500253E-04						
2,2-Dichloropropane	80	1.550051	120	1.438491	160	1.47279						
2-Butanone	80	5.470413E-02	120	5.181105E-02	160	5.608232E-02						
2-Chlorotoluene	80	3.96684	120	3.783382	160	3.996394						
2-Hexanone	80	7.601288E-02	120	7.452083E-02	160	7.879538E-02						
4-Chlorotoluene	80	4.415411	120	4.199878	160	4.458337						
4-Methyl-2-pentanone	80	0.1143436	120	0.114425	160	0.1210039						
Acetone	80	0.127034	120	0.1168459	160	0.1358061						
Acrolein	80	6.571926E-02	120	6.076387E-02	160	6.346794E-02						

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Calibration: YJ90016 Instrument: QVOA9

Calibration Date: 10/16/19 12:25

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acrylonitrile	80	2.052843E-02	120	2.048994E-02	160	1.983307E-02						
Benzene	80	4.075309	120	3.854915	160	3.886042						
Bromobenzene	80	2.03738	120	1.962443	160	2.08858						
Bromochloromethane	80	0.5685055	120	0.540755	160	0.5569398						
Bromodichloromethane	80	0.3741835	120	0.3709953	160	0.3947215						
Bromoform	80	0.1026192	120	9.962772E-02	160	0.1055722						
Bromomethane	80	0.2747098	120	0.3191072	160	0.3663506						
Carbon disulfide	80	2.373215	120	2.309017	160	2.47658						
Carbon tetrachloride	80	1.363462	120	1.28589	160	1.328507						
Chlorobenzene	80	0.7783417	120	0.7531624	160	0.7921507						
Chloroethane	80	0.5298151	120	0.5174555	160	0.5625063						
Chloroform	80	1.820423	120	1.720183	160	1.661911						
Chloromethane	80	0.5758706	120	0.6603666	160	0.7942695						
cis-1,2-Dichloroethylene	80	1.676976	120	1.579827	160	1.636907						
cis-1,3-Dichloropropylene	80	0.4382555	120	0.4251617	160	0.4449801						
Cyclohexane	80	3.916016	120	3.612523	160	3.70331						
Dibromochloromethane	80	0.2106291	120	0.2065383	160	0.219156						
Dibromomethane	80	0.1163907	120	0.1162671	160	0.1173802						
Dichlorodifluoromethane	80	1.01194	120	0.9546625	160	1.033428						
Ethyl Benzene	80	1.451834	120		160							
Hexachlorobutadiene	80	0.3124771	120	0.3138457	160	0.3508076						
Isopropylbenzene	80	5.585551	120		160							
Methyl acetate	80	0.2539776	120	0.2482438	160	0.2635081						
Methyl tert-butyl ether (MTBE)	80	2.053447	120	2.003127	160	2.063214						
Methylcyclohexane	80	0.5016797	120	0.4771364	160	0.4978598						
Methylene chloride	80	1.108946	120	1.068126	160	1.106302						
Naphthalene	80	0.7752079	120	0.7826295	160	0.8872881						
n-Butylbenzene	80	4.111573	120	3.86217	160	4.220662						
n-Propylbenzene	80	6.443464	120		160							
o-Xylene	80	1.163158	120	1.087759	160	1.10633						
p- & m- Xylenes	160	1.134748	240		320							

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Calibration: YJ90016 Instrument: QVOA9

Calibration Date: 10/16/19 12:25

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
p-Diethylbenzene	80	2.064775	120	1.958062	160	2.110764						
p-Ethyltoluene	80	4.673774	120	4.359915	160	4.495528						
p-Isopropyltoluene	80	4.355017	120	4.081521	160	4.322978						
sec-Butylbenzene	80	5.021936	120	4.627345	160	4.722877						
Styrene	80	0.8411044	120	0.7838464	160	0.8021957						
SURR: 1,2-Dichloroethane-d4	10	1.025396	10	1.014261	10	1.007119						
SURR: p-Bromofluorobenzene	10	1.940966	10	1.942153	10	1.958806						
SURR: Toluene-d8	10	1.401757	10	1.412007	10	1.415006						
tert-Butyl alcohol (TBA)	80	4.850494E-02	120	4.695634E-02	160	0.0651456						
tert-Butylbenzene	80	4.105195	120	3.893348	160	4.167318						
Tetrachloroethylene	80	0.325667	120	0.3180871	160	0.3393851						
Toluene	80	1.289223	120	1.228381	160	1.184952						
trans-1,2-Dichloroethylene	80	1.409941	120	1.331231	160	1.385941						
trans-1,3-Dichloropropylene	80	0.3362824	120	0.3346274	160	0.3522061						
trans-1,4-dichloro-2-butene	80	3.960876E-02	120	3.722028E-02	160	4.057854E-02						
Trichloroethylene	80	0.3132845	120	0.3081778	160	0.3257521						
Trichlorofluoromethane	80	1.22242	120	1.18503	160	1.246251						
Vinyl acetate	80	0.8477261	120	0.84988	160	0.8727779						
Vinyl Chloride	80	1.03617	120	1.022779	160	1.085904						

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Calibration: YJ90016
Instrument: QVOA9
Calibration Date: 10/16/19 12:25

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.2558188	4.685346	9.047778	3.039987E-02			20	
1,1,1-Trichloroethane	1.683483	5.377183	5.261	5.129011E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.5846162	4.531296	10.329	3.288834E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.8016853	8.006407	3.111778	0.1118908			SPCC (0.1)	
1,1,2-Trichloroethane	0.1657804	6.196765	7.896333	2.788187E-02			SPCC (0.1)	
1,1-Dichloroethane	1.802906	10.89438	4.238667	4.826039E-02			SPCC (0.2)	
1,1-Dichloroethylene	1.494391	4.97674	3.097667	4.966975E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.398372	4.646974	5.412	4.621659E-02			20	
1,2,3-Trichlorobenzene	0.2692488	13.64421	14.33578	1.265363E-02			20	
1,2,3-Trichloropropane	0.1739207	3.963791	10.39867	3.383833E-02			20	
1,2,4,5-Tetramethylbenzene	2.907524	9.563925	12.79667	0.0255513			20	
1,2,4-Trichlorobenzene	0.5119314	10.8374	13.789	1.395408E-02			SPCC (0.2)	
1,2,4-Trimethylbenzene	4.380675	4.377985	11.108	2.177792E-02			20	
1,2-Dibromo-3-chloropropane	9.082904E-02	17.72175	12.824	1.678515E-02			SPCC (0.05)	
1,2-Dibromoethane	0.1484334	6.456363	8.434111	2.923395E-02			SPCC (0.1)	
1,2-Dichlorobenzene	1.475499	4.855582	11.941	1.333312E-02			SPCC (0.4)	
1,2-Dichloroethane	1.114544	5.576589	5.621667	3.454552E-02			SPCC (0.1)	
1,2-Dichloropropane	0.2908478	4.958992	6.456667	2.908232E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	4.531872	4.755857	10.68089	0.1967469			20	
1,3-Dichlorobenzene	1.916962	4.282757	11.43	0.0291403			SPCC (0.6)	
1,3-Dichloropropane	0.2916967	6.869413	8.065333	3.149426E-02			20	
1,4-Dichlorobenzene	1.834986	3.986218	11.54822	2.409216E-02			SPCC (0.5)	
1,4-Dioxane	4.697315E-04	12.97001	6.523333	6.251312E-02			20	
2,2-Dichloropropane	1.586568	5.901718	4.782778	0.0488801			20	
2-Butanone	8.121042E-02	55.25431	4.724556	6.595426E-02	0.99861		SPCC (0.1)	
2-Chlorotoluene	3.966346	3.251706	10.586	3.478232E-02			20	
2-Hexanone	0.0757375	9.433867	8.090666	1.626058E-02			SPCC (0.1)	*
4-Chlorotoluene	4.402548	3.299776	10.71822	3.630159E-02			20	
4-Methyl-2-pentanone	0.111677	7.741843	7.244333	4.366953E-02			SPCC (0.1)	
Acetone	0.1409858	18.90991	3.095625	9.536048E-02			SPCC (0.1)	
Acrolein	0.0525224	17.11125	2.971667	6.625414E-02			20	
Acrylonitrile	2.018424E-02	19.48358	3.824778	0.115151			20	

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Calibration: YJ90016 Instrument: QVOA9

Calibration Date: 10/16/19 12:25

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	4.058577	4.926108	5.590111	2.486224E-02			SPCC (0.5)	
Bromobenzene	1.991136	3.076704	10.37	1.259476E-02			20	
Bromochloromethane	0.6032327	7.998343	4.989	2.199528E-02			20	
Bromodichloromethane	0.3633315	7.719411	6.702333	2.387346E-02			SPCC (0.2)	
Bromoform	9.572104E-02	11.03162	9.832	2.921765E-02			SPCC (0.1)	
Bromomethane	0.236425	33.34451	2.221111	0.1305348		0.9999833	SPCC (0.1)	
Carbon disulfide	2.448376	4.888928	3.332	3.998666E-02			SPCC (0.1)	
Carbon tetrachloride	1.366149	3.958517	5.426333	4.469197E-02			SPCC (0.1)	
Chlorobenzene	0.7759435	4.892535	8.956	2.543586E-02			SPCC (0.5)	
Chloroethane	0.5306789	5.018309	2.33	0.0665054			SPCC (0.1)	
Chloroform	1.78675	5.072832	5.078667	2.759915E-02			SPCC (0.2)	
Chloromethane	0.4444283	43.65126	1.781889	0.1811366		0.999404	SPCC (0.1)	
cis-1,2-Dichloroethylene	1.688967	5.125985	4.766	4.513259E-02			SPCC (0.1)	
cis-1,3-Dichloropropylene	0.4215103	6.407676	7.132444	2.667711E-02			SPCC (0.2)	
Cyclohexane	3.9646	5.498494	5.364	4.937922E-02			SPCC (0.1)	
Dibromochloromethane	0.1982547	9.453128	8.302889	2.432319E-02			SPCC (0.1)	
Dibromomethane	0.1144099	6.252536	6.540333	2.600461E-02			20	
Dichlorodifluoromethane	1.041519	8.888987	1.602111	2.955142E-02			SPCC (0.1)	
Ethyl Benzene	1.484293	4.918687	9.059	2.383637E-02			SPCC (0.1)	
Hexachlorobutadiene	0.2997927	8.363927	13.96833	1.575202E-02			20	
Isopropylbenzene	5.644584	3.415333	10.02014	1.485711E-02			SPCC (0.1)	
Methyl acetate	0.2557125	9.571722	3.414667	0.0770058			SPCC (0.1)	
Methyl tert-butyl ether (MTBE)	2.009395	6.401009	3.826333	3.674438E-02			SPCC (0.1)	
Methylcyclohexane	0.4917152	8.521732	6.481222	3.590037E-02			SPCC (0.1)	
Methylene chloride	1.097481	4.350814	3.557	0.0420338			SPCC (0.1)	
Naphthalene	0.7797905	8.380064	14.07612	5.247659E-03			20	
n-Butylbenzene	4.108733	6.420163	11.935	2.448428E-02			20	
n-Propylbenzene	6.536059	3.089178	10.485	0.0277603			20	
o-Xylene	1.176168	6.039936	9.614	3.317843E-02			SPCC (0.3)	
p- & m- Xylenes	1.180666	4.461036	9.2	2.376706E-02			SPCC (0.1)	
p-Diethylbenzene	2.040016	6.28445	11.90867	3.133771E-02			20	
p-Ethyltoluene	4.543221	8.183574	10.62367	2.573959E-02			20	

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Calibration: YJ90016 Instrument: QVOA9

Calibration Date: 10/16/19 12:25

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
p-Isopropyltoluene	4.392049	5.317081	11.473	1.786399E-02			20	
sec-Butylbenzene	5.011691	5.382404	11.29567	1.832338E-02			20	
Styrene	0.8258037	6.861134	9.634222	0.0302758			SPCC (0.3)	
SURR: 1,2-Dichloroethane-d4	0.9969226	2.567874	5.548333	4.562012E-02			20	
SURR: p-Bromofluorobenzene	1.88995	3.159155	10.21433	9.161559E-03			20	
SURR: Toluene-d8	1.412635	1.110961	7.413667	4.615822E-03			20	
tert-Butyl alcohol (TBA)	4.742582E-02	18.7878	3.626556	0.1532669			20	
tert-Butylbenzene	4.173746	4.394648	11.042	4.037159E-02			20	
Tetrachloroethylene	0.3267985	3.040377	8.032333	3.796015E-02			SPCC (0.2)	
Toluene	1.297081	5.48655	7.484	2.357403E-02			SPCC (0.4)	
trans-1,2-Dichloroethylene	1.408936	4.942252	3.840667	5.312116E-02			SPCC (0.1)	
trans-1,3-Dichloropropylene	0.3188676	10.32863	7.691444	2.113815E-02			SPCC (0.1)	
trans-1,4-dichloro-2-butene	4.190052E-02	8.389958	10.48633	5.104394E-02			20	
Trichloroethylene	0.3120121	4.205023	6.223667	3.342956E-02			SPCC (0.2)	
Trichlorofluoromethane	1.28555	10.82146	2.593333	6.853839E-02			SPCC (0.1)	
Vinyl acetate	0.8111406	8.469768	4.224	0.0398167			20	
Vinyl Chloride	1.005562	7.082311	1.890333	9.545106E-02			SPCC (0.1)	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616875.D
Acq On : 8 Oct 2019 4:40 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL1
Misc : QBQV6100819A 0.500 PPB AQU
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 08 19:32:21 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 19:24:07 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.633	70	345718	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.663	117	1225711	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.623	152	477427	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.324	65	480213	9.98	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 99.80%				
53) Toluene-d8 (SURR)	7.172	98	1594340	9.97	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 99.70%				
73) p-Bromofluorobenzene (...	9.946	95	563536	9.50	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 95.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.354	85	14934m	0.47	ppb		
3) Chloromethane	1.552	50	23747	0.54	ppb	#	79
4) Vinyl Chloride	1.621	62	24485m	0.56	ppb		
5) Bromomethane	1.933	94	14225m	0.64	ppb		
6) Chloroethane	2.041	64	14996m	0.56	ppb		
7) Trichlorofluoromethane	2.311	101	28237	0.47	ppb		98
8) Ethanol	2.484	45	9918m	37.33	ppb		
9) Freon-113	2.845	101	19048	0.43	ppb		99
10) 1,1-Dichloroethylene	2.820	61	34626	0.46	ppb		95
11) Acrolein	2.717	56	2002m	0.64	ppb		
12) Acetone	2.845	43	11979m	0.79	ppb		
13) Iodomethane	2.957	142	18684	0.36	ppb		99
14) Allyl Chloride	3.185	76	13042	0.52	ppb	#	100
15) Methyl Acetate	3.171	43	17124	0.55	ppb		100
16) Carbon disulfide	3.032	76	66646	0.59	ppb		100
18) Methylene Chloride	3.313	49	33035	0.48	ppb		91
19) Acrylonitrile	3.510	53	6320	0.50	ppb	#	45
20) trans-1,2-Dichloroethy...	3.588	61	35232	0.50	ppb		99
21) tert-Butyl Methyl Ethe...	3.577	73	57658	0.45	ppb	#	88
22) 1,1-Dichloroethane	4.003	63	44489	0.47	ppb		99
23) Vinyl Acetate	4.050	43	39275m	0.43	ppb		
24) Diisopropyl ether (DIPE)	4.047	45	84732	0.40	ppb	#	99
25) Ethyl-tert-Butyl ether...	4.392	59	72399	0.40	ppb	#	99
26) cis-1,2-Dichloroethylene	4.534	61	39968	0.47	ppb		98
28) 2,2-Dichloropropane	4.543	77	37533	0.47	ppb		95
29) Tetrahydrofuran	4.776	42	7372	0.58	ppb	#	70
30) Bromochloromethane	4.762	49	22572	0.51	ppb		96
31) Chloroform	4.865	83	44367	0.50	ppb	#	84
32) 1,1,1-Trichloroethane	5.018	97	37318	0.46	ppb	#	82
33) Cyclohexane	5.096	56	36845m	0.48	ppb		
34) 1,1-Dichloropropylene	5.171	75	32067	0.46	ppb		90
36) Carbon Tetrachloride	5.169	117	34423	0.46	ppb	#	54
37) tert-Amyl alcohol (TAA)	5.366	59	16589m	3.98	ppb		
38) 1,2-Dichloroethane	5.399	62	29401	0.46	ppb	#	87
39) Benzene	5.344	78	90123	0.47	ppb	#	1
40) tert-Amyl methyl ether...	5.486	73	57271	0.40	ppb	#	99
42) Trichloroethylene	5.987	95	24478	0.46	ppb		94
43) Methyl Cyclohexane	6.223	83	28384	0.39	ppb	#	79
44) Methyl Methacrylate	6.281	69	11964	0.42	ppb	#	79
45) Dibromomethane	6.312	93	12991	0.46	ppb		92
46) Bromodichloromethane	6.485	83	30465	0.45	ppb	#	90
47) 1,2-Dichloropropane	6.226	63	24921	0.45	ppb	#	83
48) 1,4-Dioxane	6.304	88	3282m	11.19	ppb		
49) 2-nitropropane	6.665	43	5855	0.42	ppb	#	100
50) 2-Chloroethyl vinyl ether	6.763	63	8553	0.45	ppb		93
51) cis-1,3-Dichloropropene	6.910	75	35341	0.43	ppb		96
52) 4-Methyl-2-Pentanone	7.038	43	28646	0.45	ppb	#	85
54) Toluene	7.244	91	97149	0.48	ppb		98

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616875.D
Acq On : 8 Oct 2019 4:40 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL1
Misc : QBQV6100819A 0.500 PPB AQU
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 08 19:32:21 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 19:24:07 2019
Response via : Initial Calibration

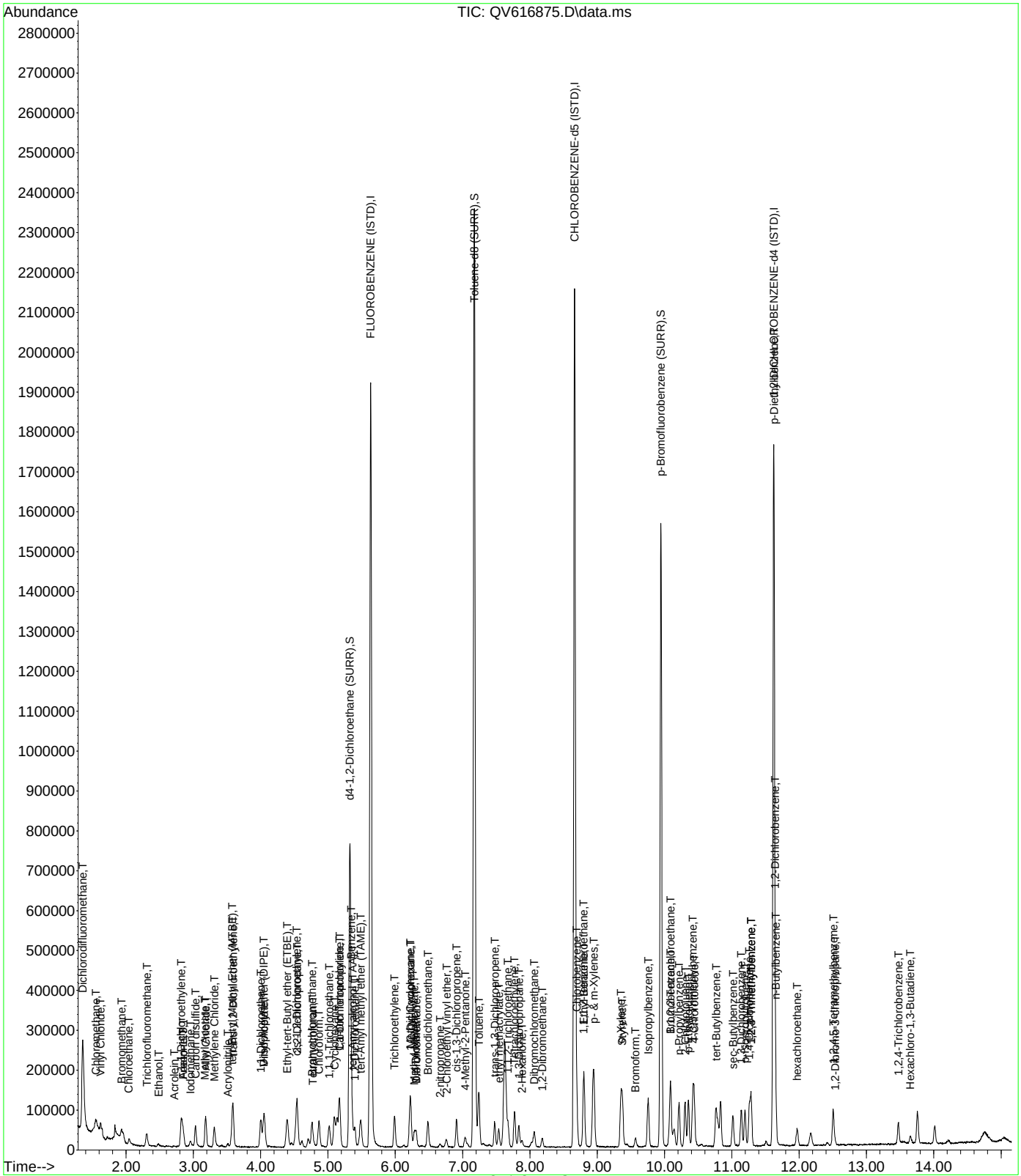
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
55) trans-1,3-Dichloropropene	7.478	75	31228	0.44	ppb		99
56) ethyl methacrylate	7.539	69	23256	0.41	ppb	#	100
57) 1,1,2-Trichloroethane	7.670	97	17832	0.47	ppb		91
58) 1,3-Dichloropropane	7.837	76	28574	0.44	ppb	#	89
59) Tetrachloroethylene	7.770	166	26524	0.46	ppb	#	77
60) 2-Hexanone	7.881	43	12616	0.40	ppb		94
61) Dibromochloromethane	8.062	129	20005	0.42	ppb		98
62) 1,2-Dibromoethane	8.182	107	16066	0.42	ppb		95
63) Chlorobenzene	8.694	112	57819	0.45	ppb	#	51
64) 1,1,1,2-tetrachloroethane	8.794	131	21054	0.42	ppb	#	72
65) Ethyl Benzene	8.802	91	97503	0.45	ppb		100
66) p- & m-Xylenes	8.950	91	152827	0.91	ppb		96
67) o-Xylene	9.353	91	77578	0.45	ppb		99
68) Styrene	9.373	104	59102	0.43	ppb	#	75
69) Bromoform	9.565	173	10665	0.40	ppb		99
71) p-Ethyltoluene	10.355	105	77935	0.44	ppb		83
72) Isopropylbenzene	9.759	105	89999	0.41	ppb		98
74) 1,1,2,2-Tetrachloroethane	10.088	83	17073	0.39	ppb	#	96
75) Bromobenzene	10.088	77	36384	0.41	ppb		91
78) n-Propylbenzene	10.216	91	97085	0.41	ppb	#	96
79) 2-Chlorotoluene	10.307	91	63879	0.43	ppb		99
80) 4-Chlorotoluene	10.441	91	71679	0.41	ppb		98
81) 1,3,5-Trimethylbenzene	10.421	105	66290	0.40	ppb	#	63
82) tert-Butylbenzene	10.766	119	64642m	0.41	ppb		
83) 1,2,4-Trimethylbenzene	11.284	105	78699	0.47	ppb		95
84) sec-Butylbenzene	11.017	105	62075	0.40	ppb	#	93
85) 1,3-Dichlorobenzene	11.139	146	41142	0.42	ppb		99
86) p-Isopropyltoluene	11.198	119	58374	0.39	ppb		98
87) 1,4-Dichlorobenzene	11.256	146	42240	0.43	ppb		99
88) 1,2,3-Trimethylbenzene	11.284	105	78954	0.13	ppb		99
89) p-Diethylbenzene	11.626	105	28541	0.45	ppb	#	98
90) 1,2-Dichlorobenzene	11.643	146	37252	0.41	ppb	#	86
91) n-Butylbenzene	11.651	91	52934	0.42	ppb		96
92) hexachloroethane	11.968	117	9203	0.36	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	12.533	75	3020	0.40	ppb	#	68
94) 1,2,4,5-Tetramethylben...	12.508	119	53532	0.45	ppb		99
96) 1,2,4-Trichlorobenzene	13.474	180	17449	0.46	ppb		96
97) Hexachloro-1,3-Butadiene	13.649	225	3910	0.53	ppb	#	83

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616875.D
Acq On : 8 Oct 2019 4:40 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL1
Misc : QBQV6100819A 0.500 PPB AQU
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 08 19:32:21 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 19:24:07 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616876.D
Acq On : 8 Oct 2019 5:07 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL2
Misc : QBQV6100819A 2.00 PPB AQU
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 08 19:32:53 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 19:24:07 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.633	70	389518	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.663	117	1360126	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.621	152	495716	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.324	65	545171	10.06	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 100.60%				
53) Toluene-d8 (SURR)	7.172	98	1767761	9.96	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 99.60%				
73) p-Bromofluorobenzene (...	9.949	95	618364	10.04	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 100.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.351	85	88355m	2.49	ppb		
3) Chloromethane	1.557	50	124118	2.49	ppb	#	47
4) Vinyl Chloride	1.621	62	120789	2.45	ppb	#	54
5) Bromomethane	1.930	94	63566m	2.55	ppb		
6) Chloroethane	2.044	64	73142	2.43	ppb		93
7) Trichlorofluoromethane	2.309	101	154681	2.30	ppb		100
8) Ethanol	2.473	45	33463	111.79	ppb	#	1
9) Freon-113	2.843	101	84675	1.70	ppb		99
10) 1,1-Dichloroethylene	2.818	61	177378	2.08	ppb		92
11) Acrolein	2.715	56	5955m	1.68	ppb		
12) Acetone	2.845	43	40997	2.41	ppb	#	96
13) Iodomethane	2.957	142	96526	1.63	ppb		100
14) Allyl Chloride	3.182	76	59661	2.10	ppb	#	100
15) Methyl Acetate	3.177	43	62681	1.78	ppb		99
16) Carbon disulfide	3.032	76	273649	2.14	ppb		100
18) Methylene Chloride	3.313	49	156941	2.04	ppb		92
19) Acrylonitrile	3.513	53	28728	2.03	ppb	#	45
20) trans-1,2-Dichloroethy...	3.591	61	161690	2.02	ppb		99
21) tert-Butyl Methyl Ethe...	3.580	73	291599	2.02	ppb	#	99
22) 1,1-Dichloroethane	4.000	63	219402	2.04	ppb		99
23) Vinyl Acetate	4.047	43	156045	1.50	ppb	#	100
24) Diisopropyl ether (DIPE)	4.050	45	394051	1.67	ppb	#	99
25) Ethyl-tert-Butyl ether...	4.395	59	338385	1.66	ppb	#	85
26) cis-1,2-Dichloroethylene	4.537	61	196485	2.04	ppb	#	75
28) 2,2-Dichloropropane	4.543	77	180657	2.02	ppb		94
29) Tetrahydrofuran	4.774	42	30784	2.15	ppb	#	48
30) Bromochloromethane	4.760	49	103968	2.08	ppb		93
31) Chloroform	4.865	83	202406	2.04	ppb	#	97
32) 1,1,1-Trichloroethane	5.016	97	186325	2.02	ppb		98
33) Cyclohexane	5.099	56	151927	1.75	ppb		88
34) 1,1-Dichloropropylene	5.171	75	154803	1.98	ppb		89
36) Carbon Tetrachloride	5.171	117	169348	2.02	ppb	#	54
37) tert-Amyl alcohol (TAA)	5.363	59	80257	17.09	ppb	#	82
38) 1,2-Dichloroethane	5.400	62	147115	2.06	ppb		99
39) Benzene	5.347	78	438733	2.03	ppb	#	43
40) tert-Amyl methyl ether...	5.483	73	269027	1.66	ppb	#	100
42) Trichloroethylene	5.989	95	118332	2.01	ppb		96
43) Methyl Cyclohexane	6.220	83	130587	1.63	ppb	#	78
44) Methyl Methacrylate	6.282	69	61401	1.94	ppb		91
45) Dibromomethane	6.312	93	64145	2.04	ppb		94
46) Bromodichloromethane	6.485	83	146566	1.95	ppb		95
47) 1,2-Dichloropropane	6.226	63	124036	2.00	ppb	#	83
48) 1,4-Dioxane	6.295	88	16535	50.82	ppb	#	86
49) 2-nitropropane	6.668	43	30776	1.99	ppb	#	100
50) 2-Chloroethyl vinyl ether	6.760	63	35476	1.68	ppb	#	92
51) cis-1,3-Dichloropropene	6.908	75	180271	1.98	ppb		92
52) 4-Methyl-2-Pentanone	7.036	43	142172	2.03	ppb	#	85
54) Toluene	7.241	91	457925	2.06	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616876.D
Acq On : 8 Oct 2019 5:07 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL2
Misc : QBQV6100819A 2.00 PPB AQU
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 08 19:32:53 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 19:24:07 2019
Response via : Initial Calibration

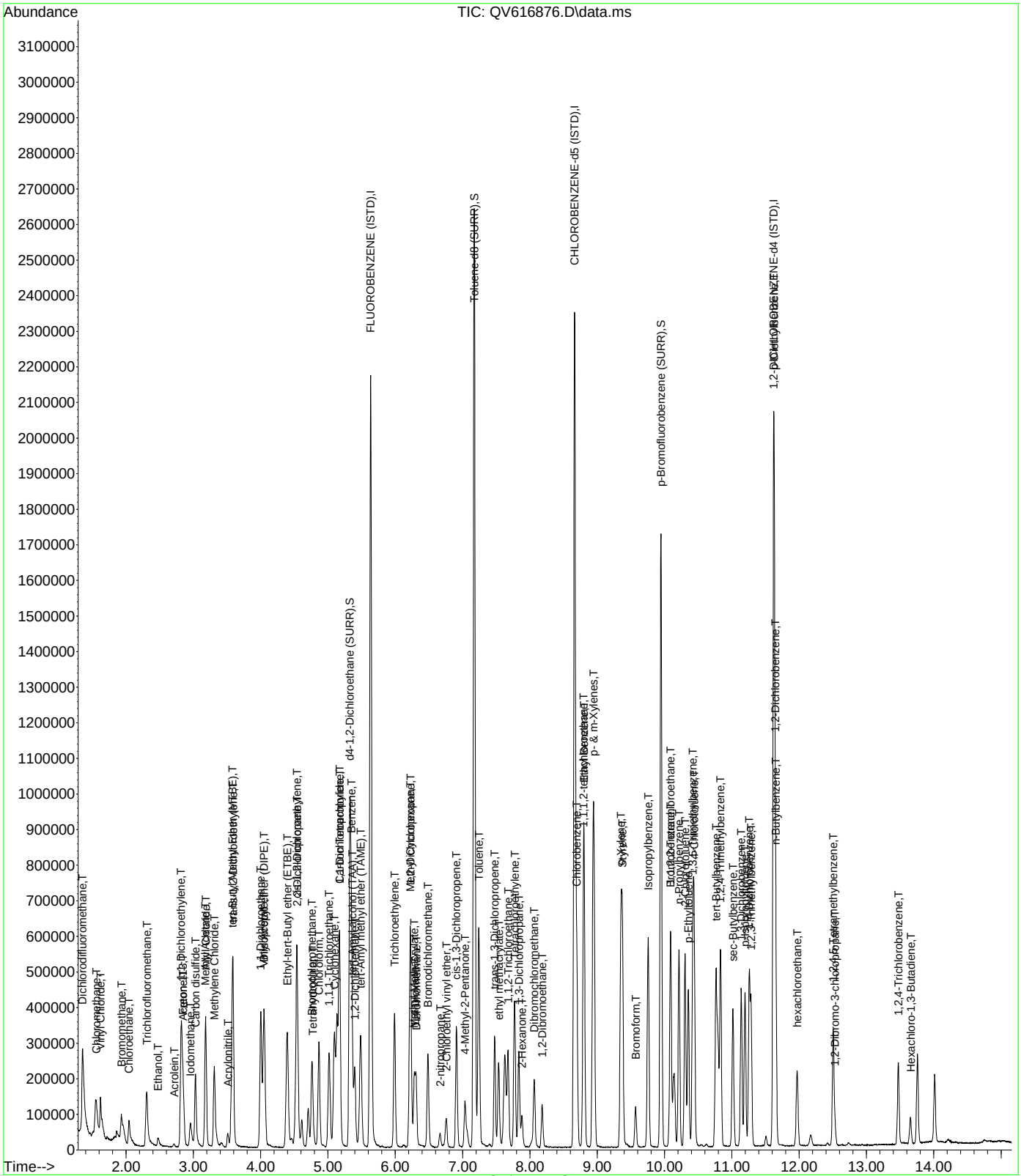
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
55) trans-1,3-Dichloropropene	7.475	75	154823	1.96	ppb		99
56) ethyl methacrylate	7.539	69	122941	1.97	ppb	#	100
57) 1,1,2-Trichloroethane	7.675	97	86602	2.05	ppb		94
58) 1,3-Dichloropropane	7.837	76	144963	2.03	ppb		96
59) Tetrachloroethylene	7.776	166	127865	2.00	ppb	#	100
60) 2-Hexanone	7.881	43	69950	2.00	ppb		98
61) Dibromochloromethane	8.065	129	102981	1.95	ppb		98
62) 1,2-Dibromoethane	8.182	107	82305	1.96	ppb		95
63) Chlorobenzene	8.697	112	290506	2.04	ppb	#	89
64) 1,1,1,2-tetrachloroethane	8.794	131	107481	1.95	ppb		98
65) Ethyl Benzene	8.805	91	481618	2.01	ppb		98
66) p- & m-Xylenes	8.947	91	746145	4.01	ppb		97
67) o-Xylene	9.350	91	383308	2.02	ppb		99
68) Styrene	9.375	104	300175	1.97	ppb		97
69) Bromoform	9.570	173	55088	1.86	ppb		99
71) p-Ethyltoluene	10.355	105	305715	1.66	ppb	#	82
72) Isopropylbenzene	9.757	105	441498	1.96	ppb		98
74) 1,1,2,2-Tetrachloroethane	10.090	83	87686	1.94	ppb	#	98
75) Bromobenzene	10.088	77	180388	1.98	ppb		92
78) n-Propylbenzene	10.216	91	481419	1.96	ppb		99
79) 2-Chlorotoluene	10.305	91	307549	1.97	ppb		98
80) 4-Chlorotoluene	10.441	91	352677	1.95	ppb		98
81) 1,3,5-Trimethylbenzene	10.419	105	337788	1.96	ppb	#	62
82) tert-Butylbenzene	10.767	119	319247	1.95	ppb		93
83) 1,2,4-Trimethylbenzene	10.831	105	335553	1.95	ppb		98
84) sec-Butylbenzene	11.017	105	307591	1.91	ppb		98
85) 1,3-Dichlorobenzene	11.139	146	198562	1.95	ppb		99
86) p-Isopropyltoluene	11.195	119	283109	1.83	ppb		97
87) 1,4-Dichlorobenzene	11.256	146	203207	1.98	ppb		98
88) 1,2,3-Trimethylbenzene	11.287	105	245835	0.39	ppb		100
89) p-Diethylbenzene	11.626	105	110062	1.66	ppb	#	93
90) 1,2-Dichlorobenzene	11.646	146	183998	1.97	ppb	#	87
91) n-Butylbenzene	11.654	91	245447	1.87	ppb		96
92) hexachloroethane	11.974	117	50495	1.89	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	12.530	75	16192	2.07	ppb	#	27
94) 1,2,4,5-Tetramethylben...	12.505	119	200904	1.64	ppb		99
96) 1,2,4-Trichlorobenzene	13.474	180	77311	1.97	ppb		96
97) Hexachloro-1,3-Butadiene	13.657	225	15695	2.05	ppb	#	81

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616876.D
Acq On : 8 Oct 2019 5:07 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL2
Misc : QBQV6100819A 2.00 PPB AQU
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 08 19:32:53 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 19:24:07 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616877.D
Acq On : 8 Oct 2019 5:33 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL3
Misc : QBQV6100819A 4.00 PPB AQU
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 08 19:35:17 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 19:24:07 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.633	70	402908	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.663	117	1400708	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.621	152	518198	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.324	65	554775	9.89	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 98.90%				
53) Toluene-d8 (SURR)	7.172	98	1838755	10.06	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 100.60%				
73) p-Bromofluorobenzene (...	9.946	95	638497	9.92	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 99.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.351	85	127795m	3.48	ppb		
3) Chloromethane	1.552	50	176638	3.42	ppb	#	44
4) Vinyl Chloride	1.621	62	181705m	3.56	ppb		
5) Bromomethane	1.930	94	92036m	3.57	ppb		
6) Chloroethane	2.044	64	111902	3.59	ppb		92
7) Trichlorofluoromethane	2.306	101	239690	3.44	ppb		99
8) Ethanol	2.475	45	59105	190.88	ppb	#	1
9) Freon-113	2.845	101	146975	2.85	ppb	#	69
10) 1,1-Dichloroethylene	2.820	61	276728	3.14	ppb		95
11) Acrolein	2.709	56	9944	2.72	ppb	#	83
12) Acetone	2.843	43	56942	3.23	ppb	#	95
13) Iodomethane	2.954	142	166707	2.73	ppb		99
14) Allyl Chloride	3.182	76	90007	3.07	ppb	#	100
15) Methyl Acetate	3.174	43	105063	2.89	ppb		99
16) Carbon disulfide	3.032	76	417450	3.16	ppb		100
18) Methylene Chloride	3.310	49	244242	3.07	ppb		92
19) Acrylonitrile	3.513	53	43025	2.94	ppb	#	70
20) trans-1,2-Dichloroethy...	3.588	61	250872	3.03	ppb		98
21) tert-Butyl Methyl Ethe...	3.577	73	444836	2.99	ppb	#	88
22) 1,1-Dichloroethane	3.997	63	339930	3.05	ppb		99
23) Vinyl Acetate	4.050	43	292187	2.72	ppb	#	100
24) Diisopropyl ether (DIPE)	4.050	45	671259	2.75	ppb	#	99
25) Ethyl-tert-Butyl ether...	4.395	59	575342	2.73	ppb	#	85
26) cis-1,2-Dichloroethylene	4.537	61	304095	3.05	ppb		99
28) 2,2-Dichloropropane	4.545	77	282605	3.06	ppb		93
29) Tetrahydrofuran	4.776	42	46849	3.16	ppb	#	52
30) Bromochloromethane	4.760	49	161364	3.12	ppb		94
31) Chloroform	4.865	83	313926	3.06	ppb	#	84
32) 1,1,1-Trichloroethane	5.018	97	288431	3.02	ppb	#	73
33) Cyclohexane	5.093	56	285096	3.17	ppb		93
34) 1,1-Dichloropropylene	5.171	75	246716	3.05	ppb		91
36) Carbon Tetrachloride	5.171	117	264396	3.04	ppb	#	55
37) tert-Amyl alcohol (TAA)	5.366	59	126563	26.06	ppb		95
38) 1,2-Dichloroethane	5.399	62	222713	3.02	ppb		99
39) Benzene	5.349	78	683543	3.06	ppb	#	54
40) tert-Amyl methyl ether...	5.483	73	449919	2.69	ppb	#	100
42) Trichloroethylene	5.987	95	184264	3.04	ppb		95
43) Methyl Cyclohexane	6.223	83	236160	2.86	ppb	#	81
44) Methyl Methacrylate	6.284	69	93405	2.86	ppb	#	85
45) Dibromomethane	6.309	93	96584	2.98	ppb		95
46) Bromodichloromethane	6.485	83	229068	2.96	ppb		95
47) 1,2-Dichloropropane	6.229	63	192371	3.01	ppb	#	99
48) 1,4-Dioxane	6.293	88	19892	59.36	ppb		100
49) 2-nitropropane	6.663	43	46303	2.90	ppb	#	100
50) 2-Chloroethyl vinyl ether	6.760	63	62485	2.87	ppb	#	92
51) cis-1,3-Dichloropropene	6.910	75	278441	2.97	ppb		93
52) 4-Methyl-2-Pentanone	7.038	43	212056	2.94	ppb	#	85
54) Toluene	7.241	91	707291	3.08	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616877.D
Acq On : 8 Oct 2019 5:33 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL3
Misc : QBQV6100819A 4.00 PPB AQU
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 08 19:35:17 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 19:24:07 2019
Response via : Initial Calibration

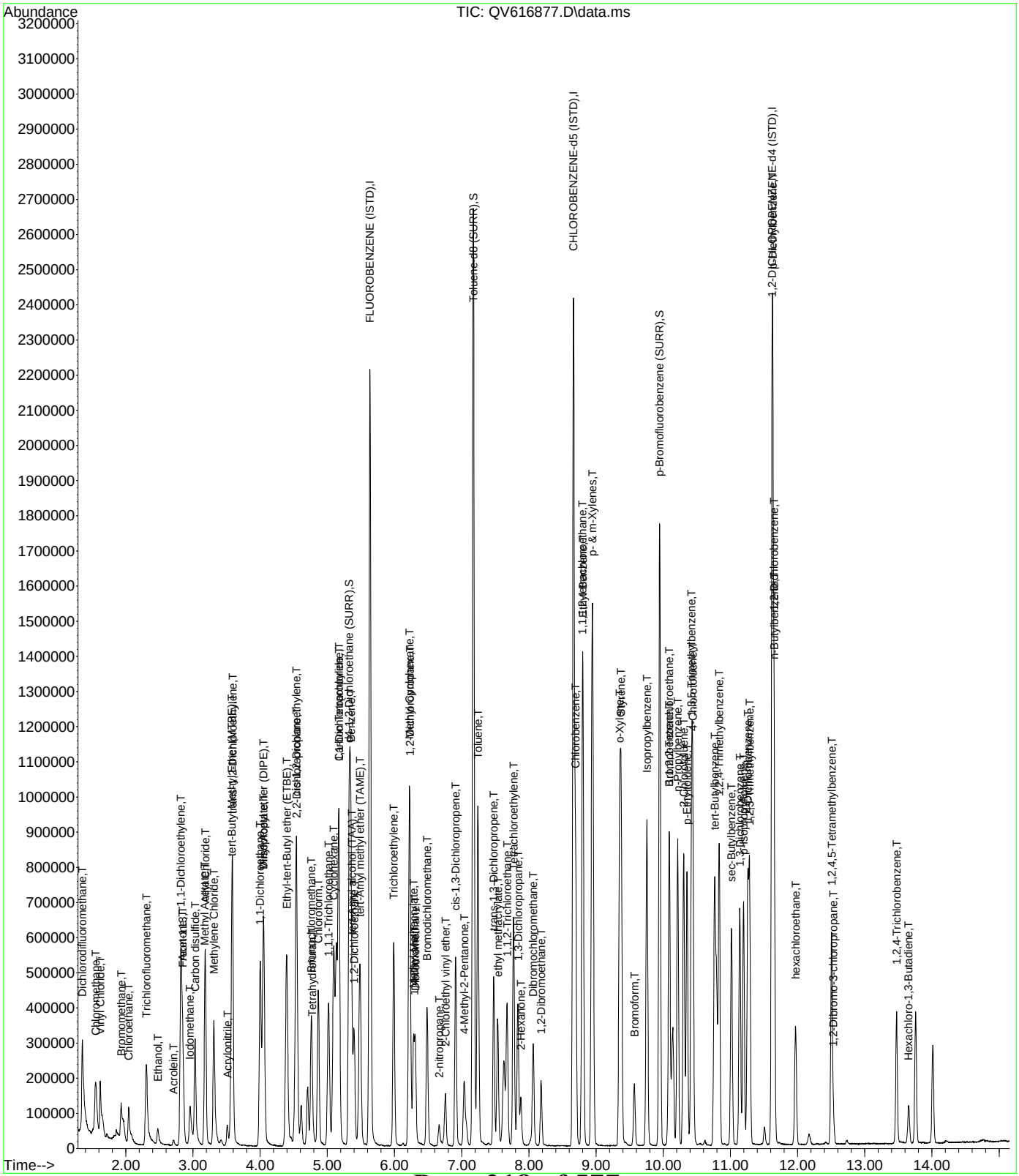
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
55) trans-1,3-Dichloropropene	7.475	75	239047	2.93	ppb	#	89
56) ethyl methacrylate	7.539	69	187818	2.93	ppb	#	100
57) 1,1,2-Trichloroethane	7.675	97	130050	2.98	ppb		96
58) 1,3-Dichloropropane	7.839	76	221022	3.00	ppb		96
59) Tetrachloroethylene	7.773	166	200035	3.03	ppb	#	77
60) 2-Hexanone	7.881	43	105107	2.91	ppb	#	27
61) Dibromochloromethane	8.065	129	158011	2.90	ppb		98
62) 1,2-Dibromoethane	8.182	107	130365	3.01	ppb		97
63) Chlorobenzene	8.694	112	447512	3.05	ppb		91
64) 1,1,1,2-tetrachloroethane	8.797	131	168575	2.97	ppb		96
65) Ethyl Benzene	8.805	91	752600	3.05	ppb		99
66) p- & m-Xylenes	8.947	91	1170705	6.10	ppb		97
67) o-Xylene	9.350	91	592833	3.04	ppb		99
68) Styrene	9.372	104	467330	2.98	ppb		97
69) Bromoform	9.570	173	88466	2.89	ppb		98
71) p-Ethyltoluene	10.355	105	565999m	2.94	ppb		
72) Isopropylbenzene	9.756	105	694750	2.95	ppb		98
74) 1,1,2,2-Tetrachloroethane	10.090	83	136551	2.88	ppb	#	99
75) Bromobenzene	10.088	77	285057	2.99	ppb		91
78) n-Propylbenzene	10.216	91	757070	2.95	ppb		100
79) 2-Chlorotoluene	10.305	91	481973	2.96	ppb		99
80) 4-Chlorotoluene	10.441	91	552995	2.93	ppb		98
81) 1,3,5-Trimethylbenzene	10.421	105	525675	2.92	ppb	#	63
82) tert-Butylbenzene	10.766	119	498321	2.91	ppb		94
83) 1,2,4-Trimethylbenzene	10.833	105	527951	2.94	ppb		97
84) sec-Butylbenzene	11.014	105	493706	2.93	ppb		99
85) 1,3-Dichlorobenzene	11.142	146	313024	2.94	ppb		99
86) p-Isopropyltoluene	11.198	119	459195	2.83	ppb		98
87) 1,4-Dichlorobenzene	11.259	146	316546	2.95	ppb		98
88) 1,2,3-Trimethylbenzene	11.287	105	478202	0.73	ppb		100
89) p-Diethylbenzene	11.629	105	197376	2.85	ppb	#	92
90) 1,2-Dichlorobenzene	11.648	146	285763	2.92	ppb		99
91) n-Butylbenzene	11.651	91	397936	2.90	ppb		96
92) hexachloroethane	11.971	117	79906	2.86	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	12.530	75	23679	2.89	ppb		86
94) 1,2,4,5-Tetramethylben...	12.508	119	363586	2.84	ppb		99
96) 1,2,4-Trichlorobenzene	13.474	180	121805	2.98	ppb		96
97) Hexachloro-1,3-Butadiene	13.649	225	24753	3.09	ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616877.D
Acq On : 8 Oct 2019 5:33 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL3
Misc : QBQV6100819A 4.00 PPB AQU
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 08 19:35:17 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 19:24:07 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616878.D
Acq On : 8 Oct 2019 5:59 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL4
Misc : QBQV6100819A 10.0 PPB AQU
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 30 15:21:15 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:41:05 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.633	70	377421	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.666	117	1311031	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.623	152	472778	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.324	65	525337	10.05	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 100.50%				
53) Toluene-d8 (SURR)	7.172	98	1711232	9.92	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 99.20%				
73) p-Bromofluorobenzene (...	9.948	95	587489	10.29	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 102.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.354	85	343811m	9.88	ppb		
3) Chloromethane	1.552	50	483941	9.41	ppb	#	45
4) Vinyl Chloride	1.621	62	478116	9.33	ppb	#	47
5) Bromomethane	1.930	94	241242m	8.66	ppb		
6) Chloroethane	2.047	64	291691	9.13	ppb		90
7) Trichlorofluoromethane	2.311	101	652044	9.70	ppb		98
8) Ethanol	2.478	45	145025	445.53	ppb	#	1
9) Freon-113	2.843	101	482248	11.10	ppb		99
10) 1,1-Dichloroethylene	2.820	61	825136	10.68	ppb		96
11) Acrolein	2.712	56	34285	9.98	ppb	#	83
12) Acetone	2.848	43	164955	10.98	ppb	#	97
13) Iodomethane	2.959	142	572822	11.12	ppb		99
14) Allyl Chloride	3.185	76	274834	10.56	ppb	#	100
15) Methyl Acetate	3.174	43	340364	10.74	ppb		99
16) Carbon disulfide	3.035	76	1237043	10.29	ppb		100
17) tert-Butyl Alcohol (TBA)	3.421	59	50678	10.45	ppb	#	1
18) Methylene Chloride	3.313	49	744223	10.52	ppb		91
19) Acrylonitrile	3.513	53	137269	10.51	ppb	#	45
20) trans-1,2-Dichloroethy...	3.591	61	774707	10.48	ppb		99
21) tert-Butyl Methyl Ethe...	3.580	73	1395319	10.68	ppb	#	88
22) 1,1-Dichloroethane	4.000	63	1043953	10.76	ppb		99
23) Vinyl Acetate	4.050	43	1007283	11.94	ppb	#	100
24) Diisopropyl ether (DIPE)	4.053	45	2285808	12.15	ppb	#	94
25) Ethyl-tert-Butyl ether...	4.395	59	1977601	12.07	ppb	#	85
26) cis-1,2-Dichloroethylene	4.540	61	933230	10.63	ppb		99
27) 2-Butanone	4.515	72	54618	10.47	ppb	#	95
28) 2,2-Dichloropropane	4.543	77	866184	10.68	ppb		93
29) Tetrahydrofuran	4.779	42	138945	10.24	ppb	#	49
30) Bromochloromethane	4.762	49	485173	10.68	ppb		93
31) Chloroform	4.868	83	962333	10.64	ppb	#	84
32) 1,1,1-Trichloroethane	5.018	97	893476	10.59	ppb	#	73
33) Cyclohexane	5.099	56	842142	10.43	ppb	#	85
34) 1,1-Dichloropropylene	5.169	75	756626	10.42	ppb		91
36) Carbon Tetrachloride	5.174	117	813758	10.48	ppb	#	54
37) tert-Amyl alcohol (TAA)	5.369	59	454957	117.10	ppb	#	82
38) 1,2-Dichloroethane	5.399	62	691267	10.52	ppb		99
39) Benzene	5.349	78	2091290	11.09	ppb	#	67
40) tert-Amyl methyl ether...	5.486	73	1566372	11.87	ppb	#	90
42) Trichloroethylene	5.989	95	566728	10.36	ppb		95
43) Methyl Cyclohexane	6.220	83	773375	11.03	ppb	#	82
44) Methyl Methacrylate	6.284	69	305731	10.58	ppb	#	28
45) Dibromomethane	6.309	93	303394	10.64	ppb	#	60
46) Bromodichloromethane	6.487	83	725430	10.60	ppb		96
47) 1,2-Dichloropropane	6.226	63	597658	10.48	ppb	#	83
48) 1,4-Dioxane	6.295	88	62729	204.51	ppb	#	86
49) 2-nitropropane	6.663	43	149282	10.50	ppb	#	100
50) 2-Chloroethyl vinyl ether	6.754	63	203975	11.21	ppb	#	93
51) cis-1,3-Dichloropropene	6.910	75	878787	10.66	ppb		93

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616878.D
Acq On : 8 Oct 2019 5:59 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL4
Misc : QBQV6100819A 10.0 PPB AQU
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 30 15:21:15 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:41:05 2019
Response via : Initial Calibration

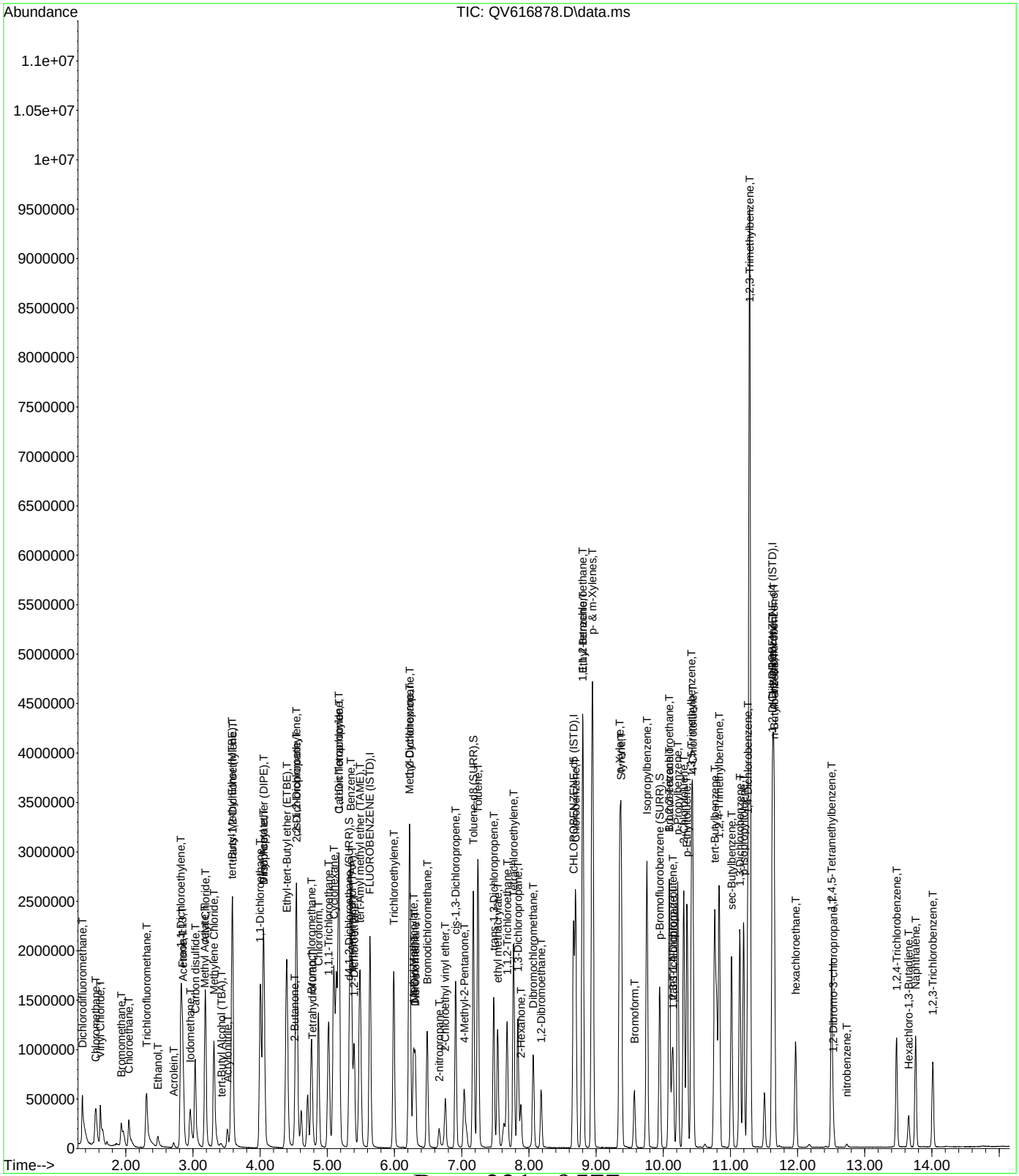
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.038	43	675870	10.60	ppb		89
54) Toluene	7.241	91	2146957	11.13	ppb		99
55) trans-1,3-Dichloropropene	7.478	75	762753	10.67	ppb		99
56) ethyl methacrylate	7.536	69	600754	10.70	ppb	#	100
57) 1,1,2-Trichloroethane	7.675	97	407994	10.60	ppb		95
58) 1,3-Dichloropropane	7.837	76	689239	10.67	ppb	#	61
59) Tetrachloroethylene	7.773	166	617323	10.51	ppb	#	100
60) 2-Hexanone	7.881	43	337783	10.89	ppb	#	30
61) Dibromochloromethane	8.065	129	510023	10.69	ppb		98
62) 1,2-Dibromoethane	8.182	107	405041	10.77	ppb		96
63) Chlorobenzene	8.694	112	1373466	10.87	ppb		94
64) 1,1,1,2-tetrachloroethane	8.799	131	530684	10.86	ppb		97
65) Ethyl Benzene	8.805	91	2310481	11.46	ppb		98
66) p- & m-Xylenes	8.944	91	3590043	20.00	ppb		97
67) o-Xylene	9.353	91	1827533	11.10	ppb		99
68) Styrene	9.375	104	1465442	11.05	ppb		98
69) Bromoform	9.570	173	286174	10.52	ppb		99
71) p-Ethyltoluene	10.352	105	1757852	11.81	ppb	#	82
72) Isopropylbenzene	9.756	105	2148647	11.88	ppb		98
74) 1,1,2,2-Tetrachloroethane	10.090	83	432163	11.21	ppb	#	99
75) Bromobenzene	10.090	77	870663	11.18	ppb		92
76) trans-1,4-Dichloro-2-b...	10.143	75	496411	11.30	ppb	#	59
77) 1,2,3-Trichloropropane	10.149	110	129726	11.31	ppb		65
78) n-Propylbenzene	10.216	91	2337943	12.04	ppb		100
79) 2-Chlorotoluene	10.305	91	1486858	11.27	ppb		98
80) 4-Chlorotoluene	10.441	91	1722124	11.53	ppb		98
81) 1,3,5-Trimethylbenzene	10.421	105	1643283	11.70	ppb	#	64
82) tert-Butylbenzene	10.766	119	1563317	11.40	ppb		93
83) 1,2,4-Trimethylbenzene	10.833	105	1641082	11.43	ppb		98
84) sec-Butylbenzene	11.017	105	1538993	11.54	ppb		99
85) 1,3-Dichlorobenzene	11.142	146	969744	11.26	ppb		99
86) p-Isopropyltoluene	11.198	119	1478949	11.85	ppb		98
87) 1,4-Dichlorobenzene	11.259	146	980543	11.20	ppb		96
88) 1,2,3-Trimethylbenzene	11.287	105	5972868	32.92	ppb		99
89) p-Diethylbenzene	11.626	105	632712	11.24	ppb	#	80
90) 1,2-Dichlorobenzene	11.646	146	892898	11.38	ppb	#	87
91) n-Butylbenzene	11.651	91	1252536	11.24	ppb	#	80
92) hexachloroethane	11.971	117	254697	10.98	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	12.530	75	74749	10.94	ppb	#	27
94) 1,2,4,5-Tetramethylben...	12.505	119	1169814	11.44	ppb		99
95) nitrobenzene	12.731	77	15182	9.41	ppb	#	100
96) 1,2,4-Trichlorobenzene	13.474	180	373366	10.80	ppb		97
97) Hexachloro-1,3-Butadiene	13.652	225	73111	10.34	ppb		98
98) Naphthalene	13.757	128	954435	10.95	ppb		99
99) 1,2,3-Trichlorobenzene	14.011	180	293452	10.74	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616878.D
Acq On : 8 Oct 2019 5:59 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL4
Misc : QBQV6100819A 10.0 PPB AQU
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 30 15:21:15 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:41:05 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616879.D
Acq On : 8 Oct 2019 6:26 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL5
Misc : QBQV6100819A 20.0 PPB AQU
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 08 19:36:02 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 19:24:07 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.636	70	393622	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.666	117	1381402	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.623	152	511963	10.00	ppb	#	0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.324	65	554916	10.13	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 101.30%				
53) Toluene-d8 (SURR)	7.175	98	1802534	10.00	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 100.00%				
73) p-Bromofluorobenzene (...	9.949	95	622767	9.79	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 97.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.351	85	892512m	24.89	ppb		
3) Chloromethane	1.552	50	1255382	24.87	ppb	#	43
4) Vinyl Chloride	1.621	62	1289443	25.86	ppb	#	48
5) Bromomethane	1.933	94	632469m	25.14	ppb		
6) Chloroethane	2.047	64	792631	26.06	ppb		90
7) Trichlorofluoromethane	2.309	101	1735715	25.52	ppb		98
8) Ethanol	2.478	45	397452	1313.89	ppb	#	1
9) Freon-113	2.843	101	1105484	21.98	ppb	#	78
10) 1,1-Dichloroethylene	2.820	61	1914868	22.25	ppb		97
11) Acrolein	2.715	56	80042	22.39	ppb	#	83
12) Acetone	2.843	43	351482	20.43	ppb	#	96
13) Iodomethane	2.960	142	1468511	24.58	ppb		100
14) Allyl Chloride	3.185	76	645990	22.54	ppb	#	100
15) Methyl Acetate	3.174	43	760034	21.41	ppb		99
16) Carbon disulfide	3.032	76	2893822	22.43	ppb		100
18) Methylene Chloride	3.310	49	1728147	22.27	ppb		91
19) Acrylonitrile	3.510	53	307002	21.44	ppb	#	42
20) trans-1,2-Dichloroethy...	3.588	61	1819319	22.52	ppb		99
21) tert-Butyl Methyl Ethe...	3.577	73	3170434	21.79	ppb	#	88
22) 1,1-Dichloroethane	4.000	63	2449911	22.50	ppb		99
23) Vinyl Acetate	4.047	43	2142549	20.40	ppb	#	100
24) Diisopropyl ether (DIPE)	4.050	45	4855055	20.37	ppb	#	99
25) Ethyl-tert-Butyl ether...	4.395	59	4166898	20.20	ppb	#	98
26) cis-1,2-Dichloroethylene	4.537	61	2184545	22.44	ppb		99
28) 2,2-Dichloropropane	4.543	77	2024469	22.41	ppb	#	65
29) Tetrahydrofuran	4.774	42	308100	21.26	ppb	#	47
30) Bromochloromethane	4.762	49	1090156	21.54	ppb		93
31) Chloroform	4.865	83	2220231	22.12	ppb	#	84
32) 1,1,1-Trichloroethane	5.018	97	2108318	22.63	ppb		97
33) Cyclohexane	5.096	56	2108786	24.01	ppb	#	86
34) 1,1-Dichloropropylene	5.171	75	1810674	22.95	ppb		91
36) Carbon Tetrachloride	5.171	117	1948319	22.96	ppb	#	55
37) tert-Amyl alcohol (TAA)	5.366	59	964848	203.35	ppb	#	82
38) 1,2-Dichloroethane	5.400	62	1599998	22.19	ppb	#	87
39) Benzene	5.347	78	4863746	22.30	ppb	#	70
40) tert-Amyl methyl ether...	5.486	73	3334360	20.41	ppb	#	100
42) Trichloroethylene	5.989	95	1338984	22.42	ppb		95
43) Methyl Cyclohexane	6.220	83	1779175	21.83	ppb	#	82
44) Methyl Methacrylate	6.282	69	688617	21.38	ppb	#	28
45) Dibromomethane	6.312	93	700387	21.91	ppb		95
46) Bromodichloromethane	6.485	83	1670746	21.86	ppb		96
47) 1,2-Dichloropropane	6.226	63	1384813	21.99	ppb	#	99
48) 1,4-Dioxane	6.298	88	144202	436.34	ppb	#	78
49) 2-nitropropane	6.666	43	343928	21.87	ppb	#	100
50) 2-Chloroethyl vinyl ether	6.757	63	446859	20.79	ppb	#	93
51) cis-1,3-Dichloropropene	6.910	75	2036688	22.00	ppb		92
52) 4-Methyl-2-Pentanone	7.036	43	1527491	21.45	ppb		89
54) Toluene	7.241	91	4978842	22.01	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616879.D
Acq On : 8 Oct 2019 6:26 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL5
Misc : QBQV6100819A 20.0 PPB AQU
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 08 19:36:02 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 19:24:07 2019
Response via : Initial Calibration

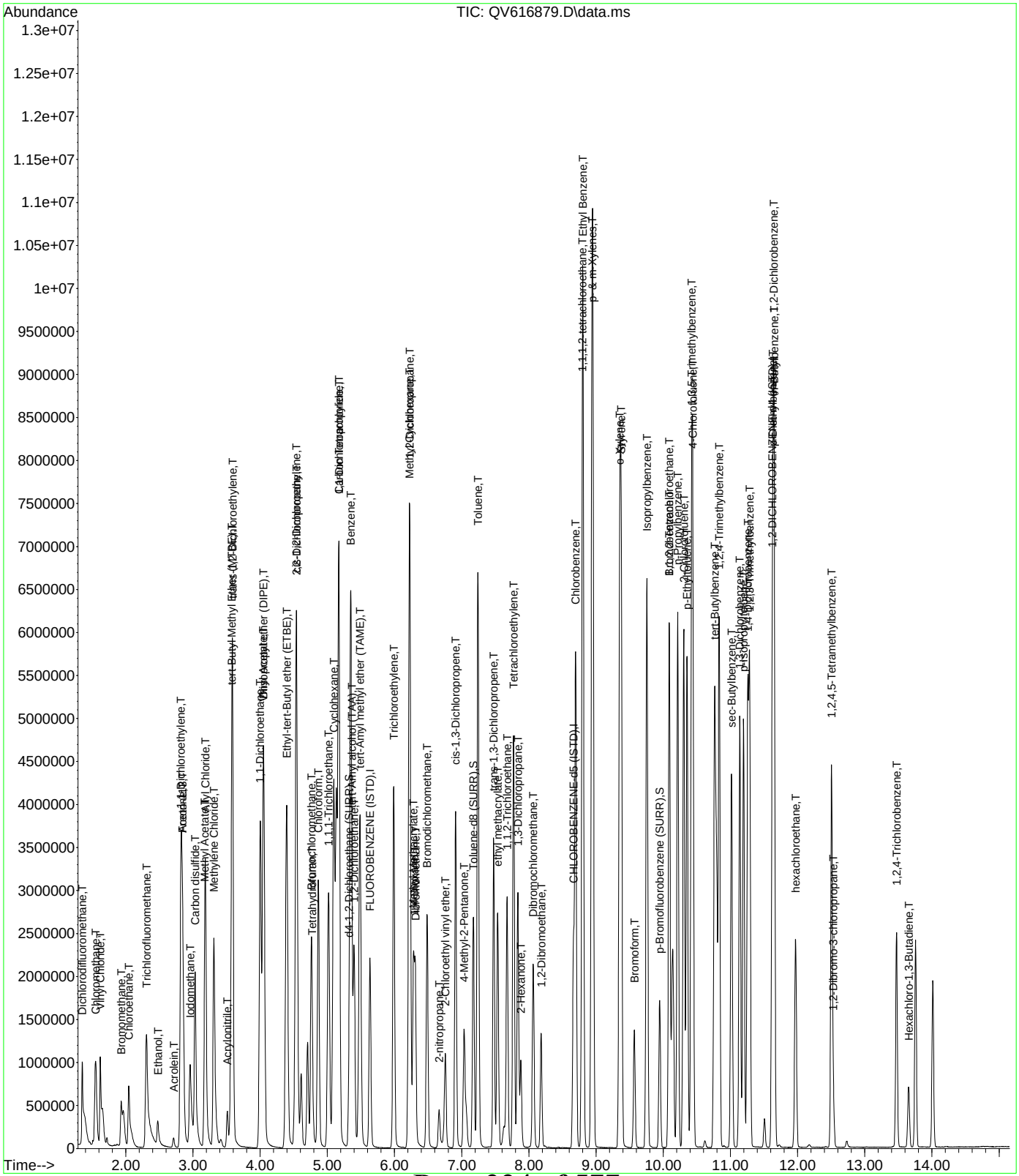
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
55) trans-1,3-Dichloropropene	7.475	75	1755234	21.84	ppb		99
56) ethyl methacrylate	7.536	69	1371689	21.67	ppb	#	100
57) 1,1,2-Trichloroethane	7.675	97	924134	21.50	ppb		96
58) 1,3-Dichloropropane	7.837	76	1572316	21.65	ppb	#	61
59) Tetrachloroethylene	7.773	166	1457155	22.40	ppb	#	77
60) 2-Hexanone	7.879	43	758633	21.32	ppb	#	29
61) Dibromochloromethane	8.065	129	1179274	21.94	ppb		98
62) 1,2-Dibromoethane	8.185	107	921092	21.58	ppb		96
63) Chlorobenzene	8.697	112	3170538	21.91	ppb		93
64) 1,1,1,2-tetrachloroethane	8.794	131	1232693	22.05	ppb		97
65) Ethyl Benzene	8.805	91	5354642	21.99	ppb		99
66) p- & m-Xylenes	8.947	91	8277892	43.77	ppb		97
67) o-Xylene	9.350	91	4229620	21.96	ppb		100
68) Styrene	9.375	104	3389240	21.95	ppb		97
69) Bromoform	9.570	173	668891	22.18	ppb	#	80
71) p-Ethyltoluene	10.355	105	3979879	20.91	ppb		83
72) Isopropylbenzene	9.757	105	4921042	21.15	ppb		98
74) 1,1,2,2-Tetrachloroethane	10.090	83	976548	20.87	ppb	#	99
75) Bromobenzene	10.090	77	1996476	21.18	ppb		92
78) n-Propylbenzene	10.216	91	5345814	21.12	ppb		99
79) 2-Chlorotoluene	10.307	91	3424151	21.27	ppb		98
80) 4-Chlorotoluene	10.441	91	3960689	21.24	ppb		98
81) 1,3,5-Trimethylbenzene	10.424	105	3731908	20.97	ppb	#	63
82) tert-Butylbenzene	10.767	119	3589068	21.20	ppb		93
83) 1,2,4-Trimethylbenzene	10.833	105	3744609	21.07	ppb		98
84) sec-Butylbenzene	11.017	105	3513691	21.08	ppb		99
85) 1,3-Dichlorobenzene	11.139	146	2216144	21.10	ppb		99
86) p-Isopropyltoluene	11.195	119	3259526	20.35	ppb		98
87) 1,4-Dichlorobenzene	11.259	146	2250298	21.19	ppb		98
88) 1,2,3-Trimethylbenzene	11.287	105	3455043	5.34	ppb		100
89) p-Diethylbenzene	11.629	105	1464192	21.37	ppb	#	98
90) 1,2-Dichlorobenzene	11.646	146	2033158	21.03	ppb	#	88
91) n-Butylbenzene	11.651	91	2891699	21.32	ppb		95
92) hexachloroethane	11.971	117	597140	21.65	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	12.530	75	169146	20.90	ppb		87
94) 1,2,4,5-Tetramethylben...	12.505	119	2642043	20.86	ppb		99
96) 1,2,4-Trichlorobenzene	13.474	180	843556	20.86	ppb		97
97) Hexachloro-1,3-Butadiene	13.655	225	168234	21.25	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616879.D
Acq On : 8 Oct 2019 6:26 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL5
Misc : QBQV6100819A 20.0 PPB AQU
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 08 19:36:02 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 19:24:07 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616880.D
Acq On : 8 Oct 2019 6:52 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL6
Misc : QBQV6100819A 40.0 PPB AQU
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 08 20:19:08 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 19:24:07 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.636	70	388232	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.663	117	1344822	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.624	152	502517	10.00	ppb	#	0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.324	65	538837	9.97	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 99.70%				
53) Toluene-d8 (SURR)	7.175	98	1780424	10.14	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 101.40%				
73) p-Bromofluorobenzene (...	9.946	95	605882	9.70	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 97.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.351	85	1340949m	37.92	ppb		
3) Chloromethane	1.552	50	2025676	40.69	ppb	#	44
4) Vinyl Chloride	1.621	62	2013668	40.94	ppb	#	47
5) Bromomethane	1.930	94	1064741m	42.91	ppb		
6) Chloroethane	2.044	64	1273056	42.43	ppb		90
7) Trichlorofluoromethane	2.309	101	2689450	40.10	ppb		98
8) Ethanol	2.473	45	623029	2088.19	ppb	#	1
9) Freon-113	2.843	101	1727037	34.81	ppb		99
10) 1,1-Dichloroethylene	2.820	61	3013443	35.50	ppb		97
11) Acrolein	2.712	56	132092	37.45	ppb	#	81
12) Acetone	2.846	43	540586	31.86	ppb	#	97
13) Iodomethane	2.957	142	2296848	38.98	ppb		99
14) Allyl Chloride	3.185	76	968967	34.27	ppb	#	100
15) Methyl Acetate	3.171	43	1212635	34.64	ppb		99
16) Carbon disulfide	3.032	76	4571513	35.93	ppb		100
18) Methylene Chloride	3.313	49	2753858	35.97	ppb		91
19) Acrylonitrile	3.510	53	507732	35.96	ppb	#	68
20) trans-1,2-Dichloroethy...	3.588	61	2934493	36.82	ppb		99
21) tert-Butyl Methyl Ethe...	3.580	73	5096566	35.51	ppb	#	88
22) 1,1-Dichloroethane	4.000	63	3877897	36.11	ppb		99
23) Vinyl Acetate	4.050	43	3203030	30.91	ppb	#	100
24) Diisopropyl ether (DIPE)	4.050	45	7291788	31.01	ppb	#	99
25) Ethyl-tert-Butyl ether...	4.392	59	6277381	30.86	ppb	#	98
26) cis-1,2-Dichloroethylene	4.537	61	3486691	36.32	ppb		99
28) 2,2-Dichloropropane	4.543	77	3174329	35.63	ppb	#	65
29) Tetrahydrofuran	4.776	42	509970	35.68	ppb	#	48
30) Bromochloromethane	4.762	49	1723027	34.52	ppb		93
31) Chloroform	4.865	83	3550629	35.87	ppb	#	84
32) 1,1,1-Trichloroethane	5.018	97	3332954	36.26	ppb	#	82
33) Cyclohexane	5.099	56	3064460	35.38	ppb	#	83
34) 1,1-Dichloropropylene	5.169	75	2886461	37.09	ppb		91
36) Carbon Tetrachloride	5.171	117	3085551	36.86	ppb	#	55
37) tert-Amyl alcohol (TAA)	5.366	59	1502640	321.08	ppb		96
38) 1,2-Dichloroethane	5.400	62	2583050	36.33	ppb		100
39) Benzene	5.350	78	7740383	35.98	ppb	#	71
40) tert-Amyl methyl ether...	5.486	73	5037276	31.26	ppb	#	100
42) Trichloroethylene	5.989	95	2147931	36.95	ppb		95
43) Methyl Cyclohexane	6.220	83	2895614	36.50	ppb	#	83
44) Methyl Methacrylate	6.282	69	1125762	35.90	ppb	#	28
45) Dibromomethane	6.309	93	1131002	36.34	ppb		96
46) Bromodichloromethane	6.485	83	2688262	36.13	ppb		95
47) 1,2-Dichloropropane	6.229	63	2230363	36.38	ppb	#	100
48) 1,4-Dioxane	6.298	88	228235	709.40	ppb	#	78
49) 2-nitropropane	6.663	43	566267	36.98	ppb	#	100
50) 2-Chloroethyl vinyl ether	6.757	63	708551	33.86	ppb	#	92
51) cis-1,3-Dichloropropene	6.910	75	3262715	36.19	ppb		92
52) 4-Methyl-2-Pentanone	7.038	43	2487519	35.88	ppb		89
54) Toluene	7.241	91	7862320	35.70	ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616880.D
Acq On : 8 Oct 2019 6:52 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL6
Misc : QBQV6100819A 40.0 PPB AQU
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 08 20:19:08 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 19:24:07 2019
Response via : Initial Calibration

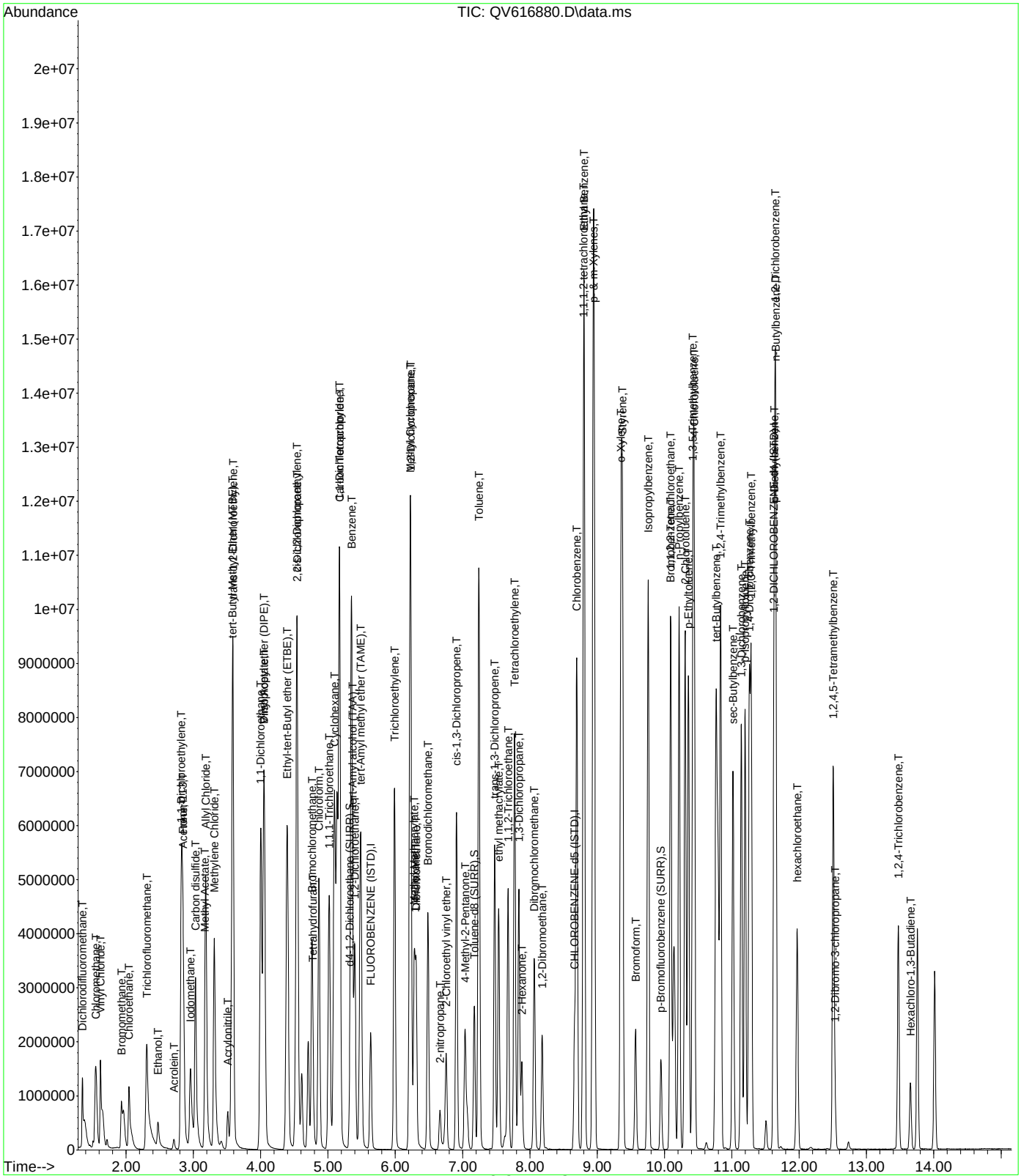
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
55) trans-1,3-Dichloropropene	7.475	75	2826558	36.13	ppb		99
56) ethyl methacrylate	7.536	69	2222163	36.06	ppb	#	100
57) 1,1,2-Trichloroethane	7.676	97	1491320	35.63	ppb		96
58) 1,3-Dichloropropane	7.837	76	2528439	35.76	ppb	#	61
59) Tetrachloroethylene	7.773	166	2329264	36.78	ppb	#	100
60) 2-Hexanone	7.881	43	1227086	35.41	ppb	#	30
61) Dibromochloromethane	8.065	129	1909199	36.49	ppb		97
62) 1,2-Dibromoethane	8.182	107	1485445	35.75	ppb		96
63) Chlorobenzene	8.697	112	5023422	35.66	ppb		93
64) 1,1,1,2-tetrachloroethane	8.797	131	1966130	36.12	ppb		98
65) Ethyl Benzene	8.805	91	8436846	35.60	ppb		100
66) p- & m-Xylenes	8.947	91	12927164	70.21	ppb		98
67) o-Xylene	9.353	91	6660170	35.53	ppb		100
68) Styrene	9.375	104	5390711	35.86	ppb		97
69) Bromoform	9.570	173	1103235	37.58	ppb		99
71) p-Ethyltoluene	10.355	105	6307108	33.76	ppb	#	82
72) Isopropylbenzene	9.757	105	7766757	34.01	ppb		97
74) 1,1,2,2-Tetrachloroethane	10.090	83	1595027	34.72	ppb	#	69
75) Bromobenzene	10.088	77	3222082	34.82	ppb		91
78) n-Propylbenzene	10.216	91	8432924	33.94	ppb		99
79) 2-Chlorotoluene	10.307	91	5443453	34.44	ppb		98
80) 4-Chlorotoluene	10.441	91	6309630	34.47	ppb		98
81) 1,3,5-Trimethylbenzene	10.422	105	5950957	34.07	ppb	#	64
82) tert-Butylbenzene	10.767	119	5736206	34.52	ppb		93
83) 1,2,4-Trimethylbenzene	10.833	105	5950415	34.11	ppb		98
84) sec-Butylbenzene	11.017	105	5680965	34.73	ppb		98
85) 1,3-Dichlorobenzene	11.142	146	3570199	34.64	ppb		99
86) p-Isopropyltoluene	11.198	119	5262175	33.47	ppb		97
87) 1,4-Dichlorobenzene	11.259	146	3636866	34.90	ppb		97
88) 1,2,3-Trimethylbenzene	11.287	105	5598494	8.82	ppb		99
89) p-Diethylbenzene	11.629	105	2386310	35.48	ppb	#	98
90) 1,2-Dichlorobenzene	11.646	146	3281331	34.57	ppb	#	88
91) n-Butylbenzene	11.651	91	4739898	35.60	ppb		93
92) hexachloroethane	11.971	117	982973	36.31	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	12.533	75	279925	35.23	ppb		88
94) 1,2,4,5-Tetramethylben...	12.505	119	4285163	34.46	ppb		99
96) 1,2,4-Trichlorobenzene	13.474	180	1415924	35.68	ppb		97
97) Hexachloro-1,3-Butadiene	13.655	225	284455	36.60	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616880.D
Acq On : 8 Oct 2019 6:52 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL6
Misc : QBQV6100819A 40.0 PPB AQU
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 08 20:19:08 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 19:24:07 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616881.D
Acq On : 8 Oct 2019 7:19 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL7
Misc : QBQV6100819A 80.0 PPB AQU
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 08 20:21:01 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:20:10 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.633	70	376164	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.663	117	1280100	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.623	152	486480	10.00	ppb	#	0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.327	65	522805	9.98	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 99.80%				
53) Toluene-d8 (SURR)	7.175	98	1691669	10.10	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 101.00%				
73) p-Bromofluorobenzene (...	9.948	95	576958	9.71	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 97.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.354	85	2497805m	69.91	ppb		
3) Chloromethane	1.552	50	3731509	72.19	ppb	#	45
4) Vinyl Chloride	1.621	62	3698573	71.11	ppb	#	47
5) Bromomethane	1.933	94	2049857m	75.37	ppb		
6) Chloroethane	2.047	64	2341449	73.23	ppb		90
7) Trichlorofluoromethane	2.308	101	5005354	74.13	ppb		98
8) Ethanol	2.475	45	1144859	3432.07	ppb	#	1
9) Freon-113	2.843	101	3297750	76.29	ppb		99
10) 1,1-Dichloroethylene	2.820	61	5523388	70.17	ppb		95
11) Acrolein	2.712	56	271807	81.57	ppb	#	83
12) Acetone	2.845	43	1039691	76.85	ppb	#	96
13) Iodomethane	2.959	142	4118605	70.72	ppb		100
14) Allyl Chloride	3.188	76	1846702	69.28	ppb	#	100
15) Methyl Acetate	3.174	43	2380608	74.52	ppb		99
16) Carbon disulfide	3.035	76	8294904	72.26	ppb		100
17) tert-Butyl Alcohol (TBA)	3.416	59	355578	Below Cal		#	1
18) Methylene Chloride	3.313	49	5166741	72.41	ppb		90
19) Acrylonitrile	3.513	53	993129	76.09	ppb	#	45
20) trans-1,2-Dichloroethy...	3.588	61	5444314	72.83	ppb		99
21) tert-Butyl Methyl Ethe...	3.580	73	10003383	76.55	ppb	#	88
22) 1,1-Dichloroethane	4.003	63	6896469	69.30	ppb	#	97
23) Vinyl Acetate	4.050	43	6322496	74.47	ppb	#	100
24) Diisopropyl ether (DIPE)	4.050	45	13937433	71.61	ppb	#	98
25) Ethyl-tert-Butyl ether...	4.395	59	12152316	72.66	ppb	#	98
26) cis-1,2-Dichloroethylene	4.540	61	6419412	72.04	ppb		99
27) 2-Butanone	4.515	72	353113	Below Cal		#	95
28) 2,2-Dichloropropane	4.543	77	5908755	71.65	ppb	#	85
29) Tetrahydrofuran	4.773	42	1018418	73.83	ppb	#	47
30) Bromochloromethane	4.762	49	3248657	69.82	ppb		93
31) Chloroform	4.865	83	6641051	71.72	ppb	#	84
32) 1,1,1-Trichloroethane	5.018	97	6228331	73.42	ppb	#	82
33) Cyclohexane	5.096	56	6152878	77.07	ppb	#	86
34) 1,1-Dichloropropylene	5.171	75	5444032	75.27	ppb		91
36) Carbon Tetrachloride	5.174	117	5801503	74.48	ppb	#	55
37) tert-Amyl alcohol (TAA)	5.369	59	3005587	776.51	ppb		96
38) 1,2-Dichloroethane	5.399	62	4932919	74.95	ppb		99
39) Benzene	5.349	78	14102292	70.76	ppb	#	71
40) tert-Amyl methyl ether...	5.486	73	9902423	74.55	ppb	#	100
42) Trichloroethylene	5.989	95	4036199	76.30	ppb		95
43) Methyl Cyclohexane	6.223	83	5428121	81.11	ppb	#	84
44) Methyl Methacrylate	6.284	69	2278509	83.48	ppb	#	28
45) Dibromomethane	6.309	93	2217106	79.01	ppb		96
46) Bromodichloromethane	6.485	83	5143057	77.70	ppb		95
47) 1,2-Dichloropropane	6.229	63	4276591	77.76	ppb	#	99
48) 1,4-Dioxane	6.295	88	436029	1398.33	ppb	#	86
49) 2-nitropropane	6.665	43	1118945	82.60	ppb	#	100
50) 2-Chloroethyl vinyl ether	6.757	63	1359756	76.74	ppb	#	93
51) cis-1,3-Dichloropropene	6.910	75	6211830	77.63	ppb		92

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616881.D
Acq On : 8 Oct 2019 7:19 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL7
Misc : QBQV6100819A 80.0 PPB AQU
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 08 20:21:01 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:20:10 2019
Response via : Initial Calibration

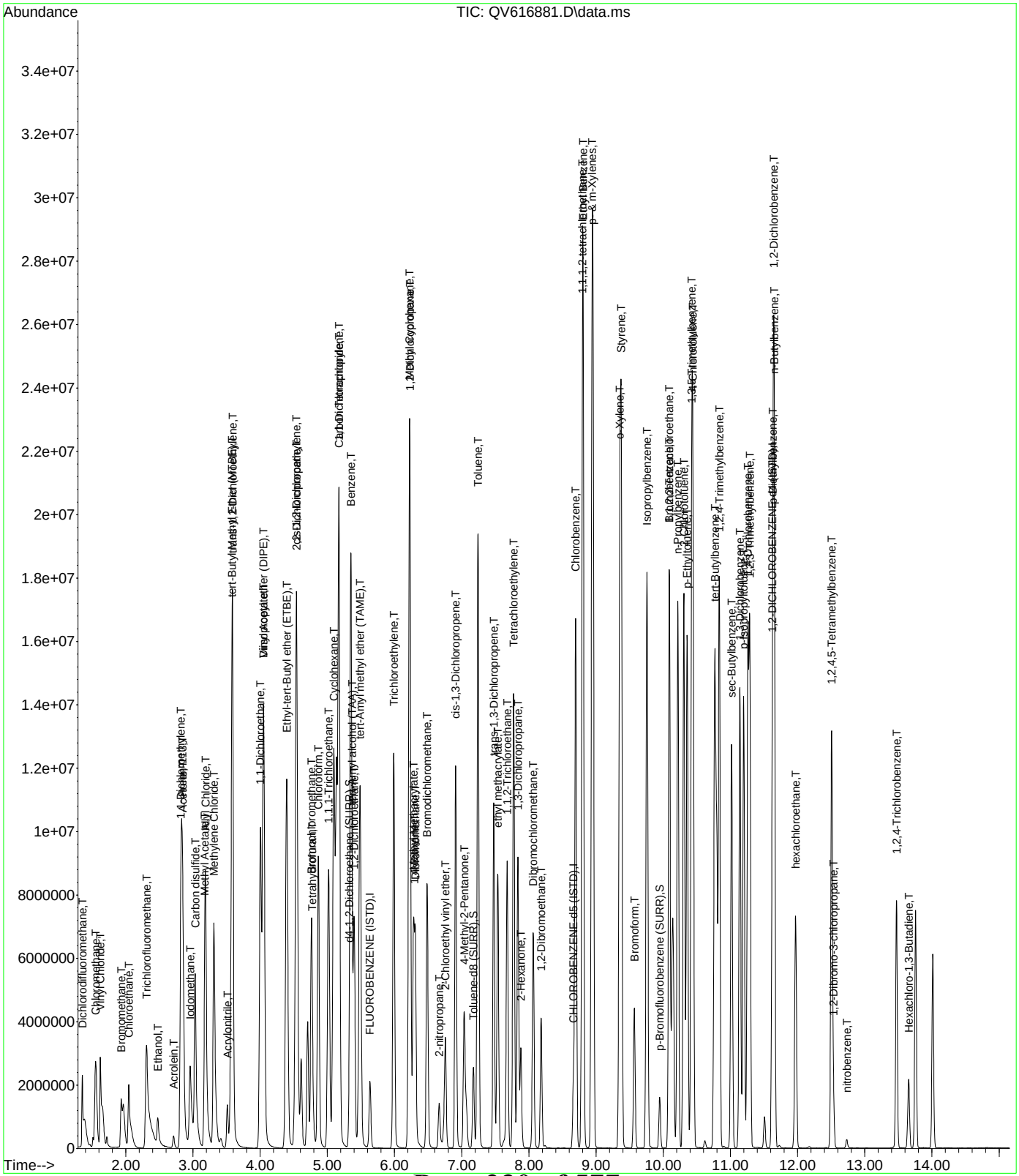
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.038	43	4874053	78.79	ppb		89
54) Toluene	7.244	91	14057874	69.86	ppb		98
55) trans-1,3-Dichloropropene	7.478	75	5427701	78.33	ppb		99
56) ethyl methacrylate	7.536	69	4320831	79.91	ppb	#	100
57) 1,1,2-Trichloroethane	7.678	97	2870997	76.27	ppb		97
58) 1,3-Dichloropropane	7.837	76	4848209	78.02	ppb	#	61
59) Tetrachloroethylene	7.773	166	4337388	75.54	ppb	#	77
60) 2-Hexanone	7.881	43	2376788	78.96	ppb	#	31
61) Dibromochloromethane	8.065	129	3655206	79.40	ppb		97
62) 1,2-Dibromoethane	8.182	107	2844544	77.70	ppb		96
63) Chlorobenzene	8.696	112	9216154	72.73	ppb		92
64) 1,1,1,2-tetrachloroethane	8.797	131	3651492	75.86	ppb		98
65) Ethyl Benzene	8.808	91	14659074	68.89	ppb		98
66) p- & m-Xylenes	8.941	91	21484727m	130.24	ppb		
67) o-Xylene	9.353	91	11978704	71.11	ppb		100
68) Styrene	9.375	104	9772714	73.31	ppb		97
69) Bromoform	9.570	173	2149162	83.95	ppb	#	80
71) p-Ethyltoluene	10.355	105	11162869	69.46	ppb	#	82
72) Isopropylbenzene	9.756	105	13533199	67.33	ppb		95
74) 1,1,2,2-Tetrachloroethane	10.090	83	3067372	76.90	ppb	#	69
75) Bromobenzene	10.090	77	5930952	72.33	ppb		92
76) trans-1,4-Dichloro-2-b...	10.146	75	3507108	Below Cal		#	59
77) 1,2,3-Trichloropropane	10.152	110	895927	Below Cal			71
78) n-Propylbenzene	10.218	91	14551046	66.63	ppb		97
79) 2-Chlorotoluene	10.307	91	9768956	69.64	ppb		98
80) 4-Chlorotoluene	10.441	91	11344273	70.39	ppb		98
81) 1,3,5-Trimethylbenzene	10.424	105	10534028	69.10	ppb	#	63
82) tert-Butylbenzene	10.769	119	10245946	70.21	ppb		94
83) 1,2,4-Trimethylbenzene	10.836	105	10620338	67.81	ppb		99
84) sec-Butylbenzene	11.017	105	10033170	70.32	ppb		97
85) 1,3-Dichlorobenzene	11.142	146	6523115	71.65	ppb		98
86) p-Isopropyltoluene	11.198	119	9359627	70.19	ppb		96
87) 1,4-Dichlorobenzene	11.262	146	6636452	71.63	ppb		97
88) 1,2,3-Trimethylbenzene	11.289	105	10073548	46.21	ppb		99
89) p-Diethylbenzene	11.629	105	4290709	73.36	ppb	#	97
90) 1,2-Dichlorobenzene	11.646	146	5975406	71.54	ppb	#	88
91) n-Butylbenzene	11.654	91	8462469	72.26	ppb		93
92) hexachloroethane	11.971	117	1827048	77.94	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	12.533	75	534028	76.00	ppb	#	53
94) 1,2,4,5-Tetramethylben...	12.505	119	7794074	72.77	ppb		99
95) nitrobenzene	12.733	77	135961	94.58	ppb	#	100
96) 1,2,4-Trichlorobenzene	13.474	180	2604981	72.75	ppb		97
97) Hexachloro-1,3-Butadiene	13.654	225	512925	70.14	ppb		98
98) Naphthalene	13.757	128	6390306	Below Cal			99
99) 1,2,3-Trichlorobenzene	14.013	180	2037231	Below Cal			97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616881.D
Acq On : 8 Oct 2019 7:19 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL7
Misc : QBQV6100819A 80.0 PPB AQU
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 08 20:21:01 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:20:10 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616882.D
Acq On : 8 Oct 2019 7:45 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL8
Misc : QBQV6100819A 120. PPB AQU
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 08 20:22:52 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:21:27 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.636	70	358495	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.666	117	1213427	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.623	152	477117	10.00	ppb	#	0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.327	65	496957	9.96	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 99.60%				
53) Toluene-d8 (SURR)	7.175	98	1622199	10.21	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 102.10%				
73) p-Bromofluorobenzene (...	9.946	95	558882	9.63	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 96.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.351	85	3745514m	112.01	ppb		
3) Chloromethane	1.552	50	5869951	120.85	ppb	#	43
4) Vinyl Chloride	1.621	62	5670765	116.25	ppb	#	53
5) Bromomethane	1.930	94	3325486m	129.37	ppb		
6) Chloroethane	2.044	64	3646324	121.12	ppb		90
7) Trichlorofluoromethane	2.308	101	7565892	118.81	ppb		98
8) Ethanol	2.478	45	1927454	6188.44	ppb	#	1
9) Freon-113	2.843	101	4998884	122.15	ppb		99
10) 1,1-Dichloroethylene	2.823	61	8470338	114.92	ppb		96
11) Acrolein	2.712	56	423847	133.09	ppb	#	83
12) Acetone	2.845	43	1503756	121.40	ppb	#	95
13) Iodomethane	2.959	142	5975085	119.33	ppb		99
14) Allyl Chloride	3.188	76	2840235	113.99	ppb	#	100
15) Methyl Acetate	3.174	43	3577269	118.66	ppb		99
16) Carbon disulfide	3.032	76	12750140	127.39	ppb		100
17) tert-Butyl Alcohol (TBA)	3.418	59	531704	132.81	ppb	#	1
18) Methylene Chloride	3.313	49	8032498	119.74	ppb		90
19) Acrylonitrile	3.513	53	1503732	121.73	ppb	#	67
20) trans-1,2-Dichloroethy...	3.591	61	8257065	117.40	ppb		99
21) tert-Butyl Methyl Ethe...	3.580	73	15159217	122.47	ppb	#	88
22) 1,1-Dichloroethane	4.006	63	10550132	113.40	ppb	#	97
23) Vinyl Acetate	4.053	43	9504113	118.64	ppb	#	100
24) Diisopropyl ether (DIPE)	4.053	45	20824817	113.98	ppb	#	98
25) Ethyl-tert-Butyl ether...	4.395	59	18363626	116.74	ppb	#	98
26) cis-1,2-Dichloroethylene	4.540	61	9814876	117.23	ppb		99
27) 2-Butanone	4.515	72	538753	155.59	ppb	#	95
28) 2,2-Dichloropropane	4.543	77	9021779	116.52	ppb		94
29) Tetrahydrofuran	4.776	42	1513710	116.43	ppb	#	47
30) Bromochloromethane	4.762	49	4949288	113.68	ppb		93
31) Chloroform	4.868	83	9925953	114.17	ppb	#	84
32) 1,1,1-Trichloroethane	5.018	97	9599580	120.14	ppb	#	82
33) Cyclohexane	5.099	56	9808183	129.59	ppb	#	88
34) 1,1-Dichloropropylene	5.174	75	8426048	123.28	ppb		91
36) Carbon Tetrachloride	5.174	117	8892296	120.99	ppb	#	55
37) tert-Amyl alcohol (TAA)	5.369	59	4537744	1235.31	ppb		96
38) 1,2-Dichloroethane	5.402	62	7675175	123.47	ppb		99
39) Benzene	5.344	78	19607689m	104.96	ppb		
40) tert-Amyl methyl ether...	5.488	73	15099789	120.45	ppb	#	99
42) Trichloroethylene	5.989	95	6274280	125.96	ppb		95
43) Methyl Cyclohexane	6.223	83	8325892	130.98	ppb	#	85
44) Methyl Methacrylate	6.284	69	3471256	133.33	ppb		91
45) Dibromomethane	6.309	93	3249538	122.38	ppb		96
46) Bromodichloromethane	6.487	83	7881484	126.13	ppb		95
47) 1,2-Dichloropropane	6.229	63	6618699	127.47	ppb	#	100
48) 1,4-Dioxane	6.298	88	640621	2207.07	ppb	#	79
49) 2-nitropropane	6.665	43	1686220	130.71	ppb	#	100
50) 2-Chloroethyl vinyl ether	6.757	63	2035880	121.92	ppb	#	93
51) cis-1,3-Dichloropropene	6.910	75	9461501	125.28	ppb		91

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616882.D
Acq On : 8 Oct 2019 7:45 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL8
Misc : QBQV6100819A 120. PPB AQU
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 08 20:22:52 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:21:27 2019
Response via : Initial Calibration

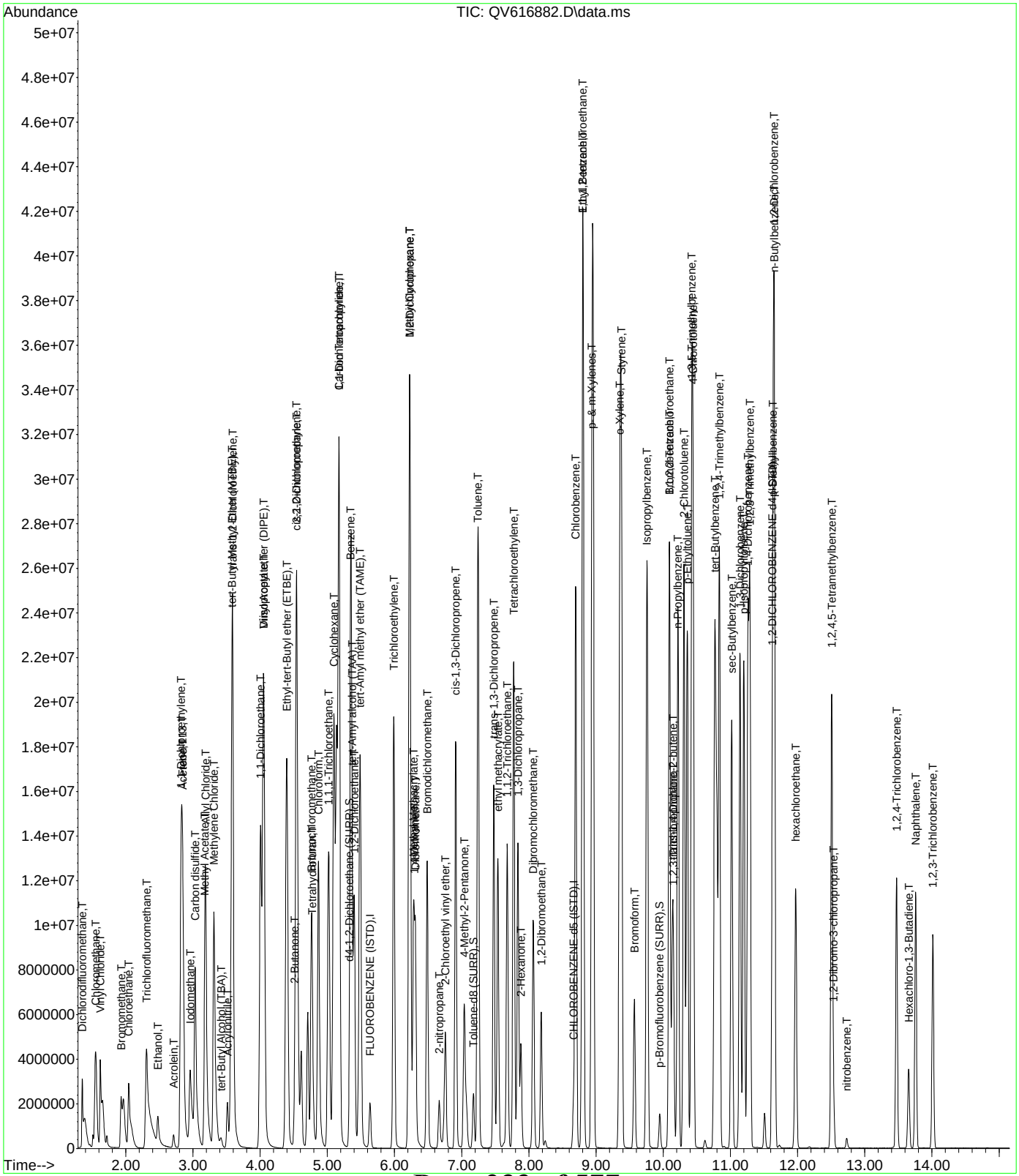
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.038	43	7287293	124.55	ppb		89
54) Toluene	7.239	91	19061053m	101.77	ppb		
55) trans-1,3-Dichloropropene	7.478	75	8193851	125.12	ppb		99
56) ethyl methacrylate	7.539	69	6537075	127.56	ppb	#	100
57) 1,1,2-Trichloroethane	7.678	97	4337584	122.38	ppb		97
58) 1,3-Dichloropropane	7.837	76	7266447	126.29	ppb	#	61
59) Tetrachloroethylene	7.775	166	6624990	122.70	ppb	#	100
60) 2-Hexanone	7.881	43	3518556	123.54	ppb	#	29
61) Dibromochloromethane	8.065	129	5513200	126.47	ppb		97
62) 1,2-Dibromoethane	8.184	107	4268906	123.53	ppb		96
63) Chlorobenzene	8.696	112	13585103	114.59	ppb		91
64) 1,1,1,2-tetrachloroethane	8.799	131	5397888	119.19	ppb		98
65) Ethyl Benzene	8.799	91	18979984m	96.00	ppb		
66) p- & m-Xylenes	8.936	91	25533458m	167.75	ppb		
67) o-Xylene	9.353	91	17117271	108.92	ppb		99
68) Styrene	9.378	104	14225795	113.93	ppb		95
69) Bromoform	9.570	173	3276723	134.08	ppb		99
71) p-Ethyltoluene	10.357	105	16415472	106.14	ppb		84
72) Isopropylbenzene	9.754	105	18753331m	97.34	ppb		
74) 1,1,2,2-Tetrachloroethane	10.093	83	4619326	118.73	ppb	#	98
75) Bromobenzene	10.093	77	9047297	114.06	ppb		91
76) trans-1,4-Dichloro-2-b...	10.146	75	5301735	134.90	ppb	#	58
77) 1,2,3-Trichloropropane	10.152	110	1355744	137.80	ppb		69
78) n-Propylbenzene	10.213	91	19237580m	92.01	ppb		
79) 2-Chlorotoluene	10.310	91	14504111	107.42	ppb		97
80) 4-Chlorotoluene	10.444	91	16736706	107.73	ppb		99
81) 1,3,5-Trimethylbenzene	10.424	105	15633748m	106.64	ppb		
82) tert-Butylbenzene	10.769	119	15533185	110.47	ppb		95
83) 1,2,4-Trimethylbenzene	10.836	105	15764578	104.91	ppb		97
84) sec-Butylbenzene	11.020	105	15230538	110.75	ppb		95
85) 1,3-Dichlorobenzene	11.145	146	9926835	112.86	ppb		97
86) p-Isopropyltoluene	11.200	119	14214244	110.63	ppb		94
87) 1,4-Dichlorobenzene	11.262	146	10007805	111.81	ppb		95
88) 1,2,3-Trimethylbenzene	11.289	105	14960962	74.47	ppb		96
89) p-Diethylbenzene	11.629	105	6735211	118.83	ppb	#	98
90) 1,2-Dichlorobenzene	11.648	146	8938778	110.79	ppb	#	88
91) n-Butylbenzene	11.654	91	13061829	115.31	ppb		93
92) hexachloroethane	11.971	117	2914513	127.23	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	12.533	75	827987	121.01	ppb		88
94) 1,2,4,5-Tetramethylben...	12.508	119	12057342	116.29	ppb		98
95) nitrobenzene	12.731	77	224973	126.46	ppb	#	100
96) 1,2,4-Trichlorobenzene	13.474	180	4153058	119.81	ppb		97
97) Hexachloro-1,3-Butadiene	13.654	225	845671	120.02	ppb		99
98) Naphthalene	13.757	128	9755740	151.05	ppb		99
99) 1,2,3-Trichlorobenzene	14.013	180	3280803	162.14	ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616882.D
Acq On : 8 Oct 2019 7:45 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL8
Misc : QBQV6100819A 120. PPB AQU
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 08 20:22:52 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:21:27 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616883.D
Acq On : 8 Oct 2019 8:18 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL9
Misc : QBQV6100819A 160. PPB AQU
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 08 20:38:33 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:23:16 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.636	70	359108	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.666	117	1195719	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.626	152	469856	10.00	ppb	#	0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.327	65	478708	9.58	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 95.80%				
53) Toluene-d8 (SURR)	7.175	98	1595585	10.16	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 101.60%				
73) p-Bromofluorobenzene (...	9.949	95	557853	9.81	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 98.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.351	85	5172807m	155.73	ppb		
3) Chloromethane	1.549	50	8125304	166.85	ppb	#	43
4) Vinyl Chloride	1.621	62	7940128m	163.13	ppb		
5) Bromomethane	1.927	94	4904597m	188.63	ppb		
6) Chloroethane	2.041	64	5112016	169.32	ppb		90
7) Trichlorofluoromethane	2.309	101	10551374	165.62	ppb		98
8) Ethanol	2.475	45	2253606	7195.01	ppb	#	1
9) Freon-113	2.843	101	6930540	168.69	ppb	#	69
10) 1,1-Dichloroethylene	2.820	61	11866568	161.58	ppb		96
11) Acrolein	2.712	56	567754	175.58	ppb	#	83
12) Acetone	2.843	43	1955685	156.90	ppb	#	95
13) Iodomethane	2.957	142	7495763	150.34	ppb		99
14) Allyl Chloride	3.185	76	3900381	157.26	ppb	#	100
15) Methyl Acetate	3.171	43	4834007	160.30	ppb		99
16) Carbon disulfide	3.032	76	17816866	171.01	ppb		100
17) tert-Butyl Alcohol (TBA)	3.419	59	653274	146.42	ppb	#	1
18) Methylene Chloride	3.310	49	10984716	163.52	ppb		89
19) Acrylonitrile	3.513	53	2033986	164.08	ppb	#	67
20) trans-1,2-Dichloroethy...	3.591	61	11311463	160.99	ppb		99
21) tert-Butyl Methyl Ethe...	3.577	73	19959912	160.57	ppb	#	88
22) 1,1-Dichloroethane	4.003	63	14451498	156.14	ppb		99
23) Vinyl Acetate	4.050	43	13011701	162.38	ppb	#	100
24) Diisopropyl ether (DIPE)	4.039	45	25044940m	137.71	ppb		
25) Ethyl-tert-Butyl ether...	4.390	59	23500115m	149.65	ppb		
26) cis-1,2-Dichloroethylene	4.540	61	13298806	159.04	ppb		99
27) 2-Butanone	4.515	72	719231	159.90	ppb	#	95
28) 2,2-Dichloropropane	4.545	77	12244200	158.45	ppb	#	65
29) Tetrahydrofuran	4.776	42	1974762	152.20	ppb	#	45
30) Bromochloromethane	4.762	49	6785901	156.63	ppb		92
31) Chloroform	4.868	83	13135275	151.75	ppb	#	84
32) 1,1,1-Trichloroethane	5.021	97	13099124	163.64	ppb	#	82
33) Cyclohexane	5.099	56	12623314	164.85	ppb	#	84
34) 1,1-Dichloropropylene	5.174	75	11548498	168.10	ppb		92
36) Carbon Tetrachloride	5.174	117	12029542	163.22	ppb	#	55
37) tert-Amyl alcohol (TAA)	5.372	59	5961527	1614.20	ppb		95
38) 1,2-Dichloroethane	5.402	62	10055534	160.91	ppb	#	98
39) Benzene	5.338	78	22674693m	123.10	ppb		
40) tert-Amyl methyl ether...	5.486	73	19926891	158.61	ppb	#	99
42) Trichloroethylene	5.989	95	8596446	174.05	ppb		94
43) Methyl Cyclohexane	6.223	83	11013398	173.84	ppb	#	85
44) Methyl Methacrylate	6.284	69	4665710	179.38	ppb	#	28
45) Dibromomethane	6.312	93	3887503	148.20	ppb	#	61
46) Bromodichloromethane	6.485	83	10541155	170.11	ppb		95
47) 1,2-Dichloropropane	6.229	63	8891515	172.44	ppb	#	100
48) 1,4-Dioxane	6.295	88	808008	2853.65	ppb	#	86
49) 2-nitropropane	6.666	43	2218710	172.61	ppb	#	100
50) 2-Chloroethyl vinyl ether	6.760	63	2792343	169.36	ppb	#	92
51) cis-1,3-Dichloropropene	6.910	75	12509747	167.17	ppb		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616883.D
Acq On : 8 Oct 2019 8:18 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL9
Misc : QBQV6100819A 160. PPB AQU
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 08 20:38:33 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:23:16 2019
Response via : Initial Calibration

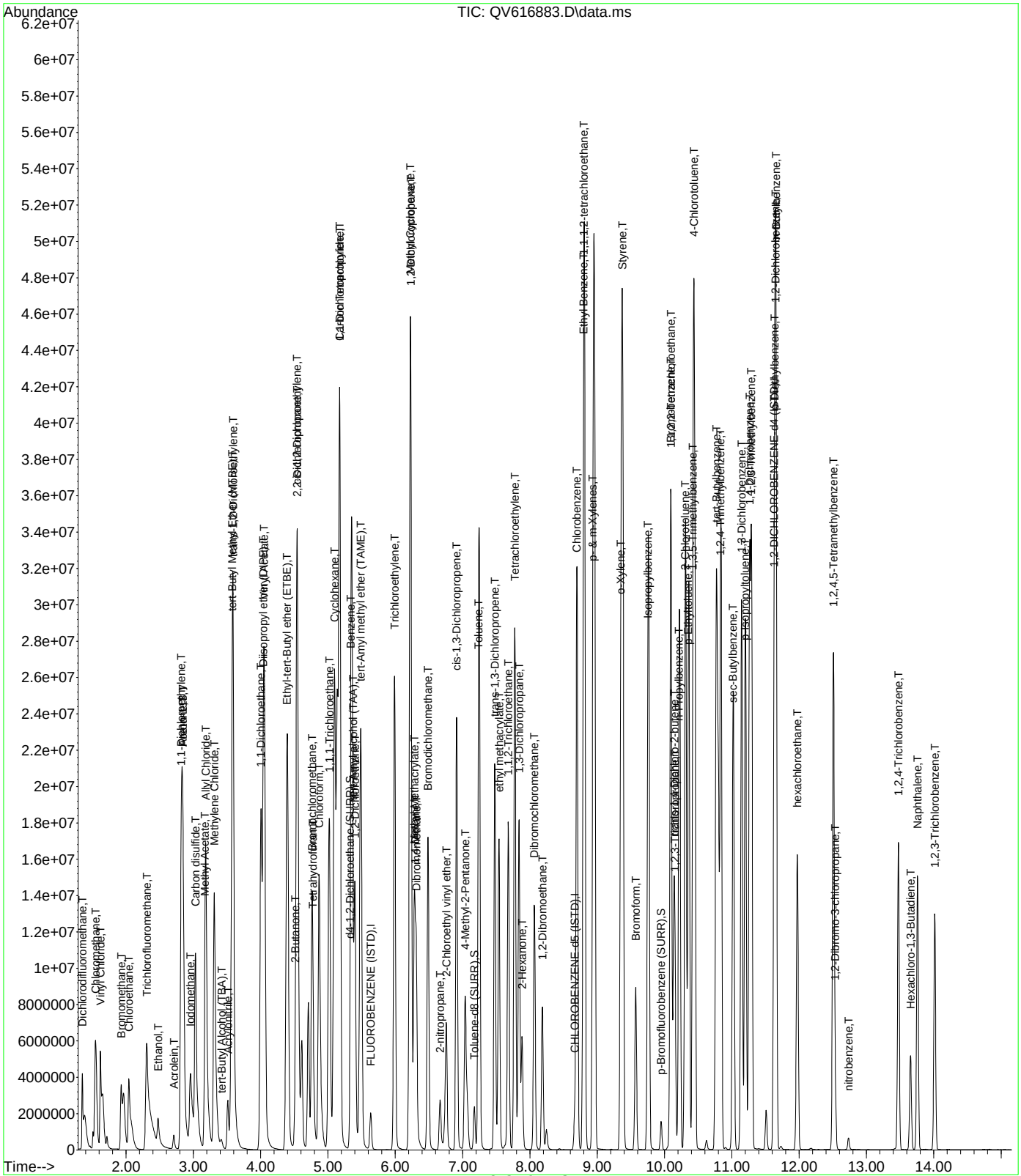
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.041	43	9602237	165.76 ppb		89
54) Toluene	7.233	91	21663782m	119.65 ppb		
55) trans-1,3-Dichloropropene	7.478	75	10837350	167.04 ppb		99
56) ethyl methacrylate	7.542	69	8608753	169.14 ppb	#	100
57) 1,1,2-Trichloroethane	7.678	97	5749580	164.21 ppb		97
58) 1,3-Dichloropropane	7.840	76	9640484	164.28 ppb	#	88
59) Tetrachloroethylene	7.776	166	8819575	165.30 ppb	#	100
60) 2-Hexanone	7.884	43	4678900	166.10 ppb	#	29
61) Dibromochloromethane	8.065	129	7299772	168.80 ppb		96
62) 1,2-Dibromoethane	8.187	107	5664504	165.73 ppb		96
63) Chlorobenzene	8.694	112	17250163	148.50 ppb		88
64) 1,1,1,2-tetrachloroethane	8.800	131	7088701	158.98 ppb		99
65) Ethyl Benzene	8.797	91	21641375m	113.93 ppb		
66) p- & m-Xylenes	8.933	91	28080928m	194.54 ppb		
67) o-Xylene	9.348	91	20328943m	132.81 ppb		
68) Styrene	9.375	104	17659933m	144.45 ppb		
69) Bromoform	9.570	173	4445864	181.95 ppb		99
71) p-Ethyltoluene	10.352	105	20955131m	139.61 ppb		
72) Isopropylbenzene	9.751	105	21615637m	116.68 ppb		
74) 1,1,2,2-Tetrachloroethane	10.096	83	6182579	161.58 ppb	#	69
75) Bromobenzene	10.093	77	12060224	155.36 ppb		91
76) trans-1,4-Dichloro-2-b...	10.149	75	7188738	166.86 ppb	#	58
77) 1,2,3-Trichloropropane	10.154	110	1833203	167.02 ppb		71
78) n-Propylbenzene	10.210	91	22033254m	110.22 ppb		
79) 2-Chlorotoluene	10.305	91	20894949m	159.22 ppb		
80) 4-Chlorotoluene	10.438	91	20338263m	134.66 ppb		
81) 1,3,5-Trimethylbenzene	10.419	105	18739476m	131.64 ppb		
82) tert-Butylbenzene	10.772	119	20824841	151.89 ppb		96
83) 1,2,4-Trimethylbenzene	10.831	105	18968635m	130.23 ppb		
84) sec-Butylbenzene	11.014	105	19121328m	142.57 ppb		
85) 1,3-Dichlorobenzene	11.145	146	13248606	154.10 ppb		95
86) p-Isopropyltoluene	11.195	119	18178499m	145.09 ppb		
87) 1,4-Dichlorobenzene	11.265	146	13367922	152.96 ppb		93
88) 1,2,3-Trimethylbenzene	11.284	105	18430673m	97.79 ppb		
89) p-Diethylbenzene	11.632	105	9229579	165.55 ppb	#	95
90) 1,2-Dichlorobenzene	11.649	146	11542390	146.68 ppb	#	87
91) n-Butylbenzene	11.657	91	17432970	157.05 ppb	#	89
92) hexachloroethane	11.971	117	4113314	180.98 ppb	#	100
93) 1,2-Dibromo-3-chloropr...	12.533	75	1143817	169.58 ppb		88
94) 1,2,4,5-Tetramethylben...	12.508	119	16187758	159.15 ppb		96
95) nitrobenzene	12.734	77	325834	161.89 ppb	#	100
96) 1,2,4-Trichlorobenzene	13.474	180	5774829	169.20 ppb		97
97) Hexachloro-1,3-Butadiene	13.655	225	1233329	177.74 ppb		99
98) Naphthalene	13.757	128	12965164	165.54 ppb		99
99) 1,2,3-Trichlorobenzene	14.016	180	4501743	164.85 ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616883.D
Acq On : 8 Oct 2019 8:18 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CAL9
Misc : QBQV6100819A 160. PPB AQU
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 08 20:38:33 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:23:16 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908309.D
Acq On : 15 Oct 2019 1:26 pm
Operator : LLJ
Sample : SEQ-CAL1
Misc : QBQV9101519A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 16 11:45:14 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.865	70	263282	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.920	117	908264	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.916	152	221777	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.549	65	254138	8.44	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 84.40%				
51) Toluene-d8 (SURR)	7.411	98	1300581	10.75	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 107.50%				
70) p-Bromofluorobenzene (...	10.213	95	427742	10.66	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 106.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.602	85	15937	0.71	ppb	#	1
3) Chloromethane	1.785	50	6094	1.13	ppb		93
4) Vinyl Chloride	1.890	62	13790	0.53	ppb	#	98
5) Bromomethane	2.227	94	3701	8.31	ppb		98
6) Chloroethane	2.329	64	7041	0.47	ppb	#	15
7) Trichlorofluoromethane	2.593	101	20673	0.58	ppb	#	21
8) Ethanol	2.724	45	1419m	32.01	ppb		
9) Freon-113	3.108	101	10966	0.45	ppb	#	1
10) 1,1-Dichloroethylene	3.096	61	18460	0.41	ppb	#	84
11) Acrolein	2.974	56	679	0.36	ppb	#	1
12) Acetone	3.099	43	2307m	0.76	ppb		
13) Iodomethane	3.247	142	8241	0.76	ppb	#	82
14) Methyl Acetate	3.419	43	3815	0.45	ppb	#	1
15) Carbon disulfide	3.334	76	35384	0.49	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.639	59	604m	0.30	ppb		
17) Methylene Chloride	3.555	49	13429	0.41	ppb	#	79
18) Acrylonitrile	3.820	53	292m	0.32	ppb		
19) trans-1,2-Dichloroethy...	3.840	61	17476	0.42	ppb	#	85
20) tert-Butyl Methyl Ethe...	3.828	73	24225	0.37	ppb	#	97
21) 1,1-Dichloroethane	4.241	63	23831	0.44	ppb	#	99
22) Vinyl Acetate	4.224	43	10120	0.36	ppb	#	1
23) Diisopropyl ether (DIPE)	4.279	45	38275	0.45	ppb	#	40
24) Ethyl-tert-Butyl ether...	4.622	59	37781	0.39	ppb	#	79
25) cis-1,2-Dichloroethylene	4.770	61	21352	0.42	ppb	#	80
26) 2-Butanone	4.729	72	2499m	1.71	ppb		
27) 2,2-Dichloropropane	4.787	77	21144	0.44	ppb	#	85
28) Tetrahydrofuran	5.017	42	1405	0.39	ppb	#	74
29) Bromochloromethane	4.988	49	7706	0.45	ppb	#	56
30) Chloroform	5.078	83	23077	0.42	ppb	#	97
31) 1,1,1-Trichloroethane	5.258	97	19784	0.39	ppb	#	74
32) Cyclohexane	5.360	56	53774	0.46	ppb	#	83
33) 1,1-Dichloropropylene	5.415	75	16832	0.39	ppb	#	98
35) Carbon Tetrachloride	5.424	117	17429	0.42	ppb	#	53
36) tert-Amyl alcohol (TAA)	5.554	59	4371	4.10	ppb	#	1
37) 1,2-Dichloroethane	5.618	62	13488	0.36	ppb	#	100
38) Benzene	5.592	78	50894	0.44	ppb	#	96
39) tert-Amyl methyl ether...	5.714	73	27845	0.41	ppb	#	1
41) Trichloroethylene	6.223	95	13394	0.45	ppb	#	70
42) Methyl Cyclohexane	6.481	83	24051	0.53	ppb	#	53
43) Methyl Methacrylate	6.487	69	8408	0.42	ppb	#	98
44) Dibromomethane	6.540	93	4894m	0.41	ppb		
45) Bromodichloromethane	6.699	83	14329	0.40	ppb	#	91
46) 1,2-Dichloropropane	6.455	63	12486	0.46	ppb	#	84
47) 1,4-Dioxane	6.522	88	486m	10.30	ppb		
49) cis-1,3-Dichloropropene	7.132	75	17281	0.43	ppb	#	94
50) 4-Methyl-2-Pentanone	7.249	43	4812	0.41	ppb	#	99
52) Toluene	7.484	91	63015	0.56	ppb		99

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908309.D
Acq On : 15 Oct 2019 1:26 pm
Operator : LLJ
Sample : SEQ-CAL1
Misc : QBQV9101519A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 16 11:45:14 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

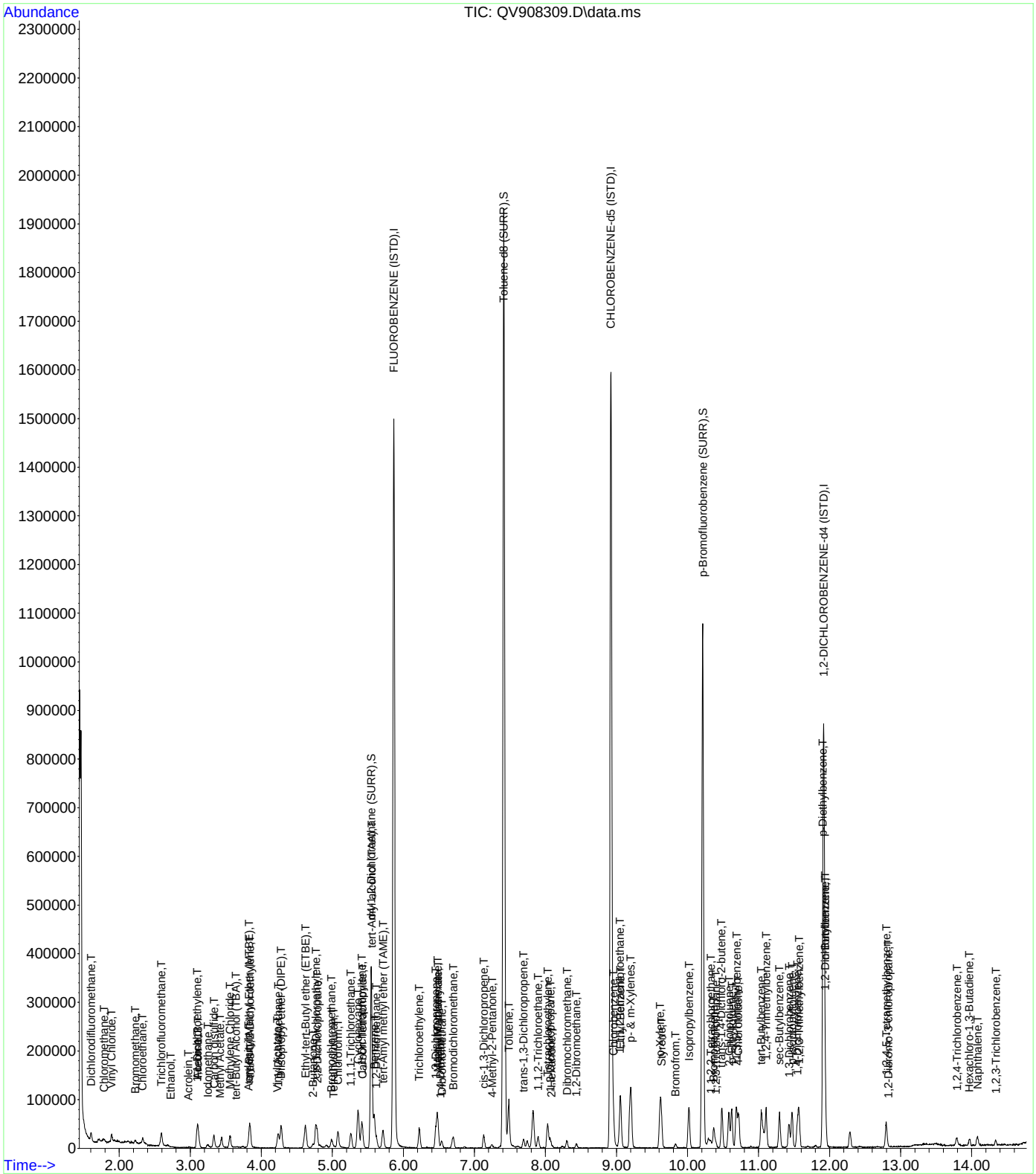
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.690	75	11836	0.37	ppb	#	95
54) 1,1,2-Trichloroethane	7.897	97	7035	0.42	ppb	#	1
55) 1,3-Dichloropropane	8.068	76	11602	0.38	ppb	#	94
56) Tetrachloroethylene	8.030	166	14788	0.46	ppb	#	100
57) 2-Hexanone	8.086	43	3173	0.39	ppb	#	34
58) Dibromochloromethane	8.306	129	7663	0.38	ppb	#	90
59) 1,2-Dibromoethane	8.434	107	6112	0.39	ppb		97
60) Chlorobenzene	8.957	112	32552	0.44	ppb	#	89
61) 1,1,1,2-tetrachloroethane	9.047	131	11266	0.45	ppb	#	57
62) Ethyl Benzene	9.056	91	62903	0.40	ppb		96
63) p- & m-Xylenes	9.196	91	102463	0.85	ppb		94
64) o-Xylene	9.611	91	51369	0.49	ppb		96
65) Styrene	9.634	104	33530	0.44	ppb	#	93
66) Bromofrom	9.829	173	3562m	0.36	ppb		
68) p-Ethyltoluene	10.625	105	56312	0.61	ppb	#	97
69) Isopropylbenzene	10.018	105	61848	0.49	ppb	#	91
71) 1,1,2,2-Tetrachloroethane	10.329	83	6261	0.45	ppb	#	97
72) Bromobenzene	10.367	77	21703	0.50	ppb		75
73) trans-1,4-Dichloro-2-b...	10.477	75	465	0.53	ppb	#	16
74) 1,2,3-Trichloropropane	10.399	110	2024	0.48	ppb	#	1
75) n-Propylbenzene	10.483	91	69281	Below Cal		#	89
76) 2-Chlorotoluene	10.585	91	44767	0.55	ppb		97
77) 4-Chlorotoluene	10.713	91	46936	0.52	ppb		95
78) 1,3,5-Trimethylbenzene	10.689	105	51243m	0.56	ppb		
79) tert-Butylbenzene	11.035	119	45317	0.53	ppb	#	93
80) 1,2,4-Trimethylbenzene	11.105	105	48776	0.56	ppb		94
81) sec-Butylbenzene	11.294	105	52954	0.55	ppb	#	92
82) 1,3-Dichlorobenzene	11.430	146	19748	0.48	ppb	#	90
83) p-Isopropyltoluene	11.471	119	44885	0.51	ppb		93
84) 1,4-Dichlorobenzene	11.544	146	19179	0.48	ppb		91
85) 1,2,3-Trimethylbenzene	11.570	105	44979	0.43	ppb	#	87
86) p-Diethylbenzene	11.904	105	22262	0.52	ppb	#	56
87) 1,2-Dichlorobenzene	11.939	146	15638	0.47	ppb	#	100
88) n-Butylbenzene	11.936	91	39819m	0.44	ppb		
89) 1,2-Dibromo-3-chloropr...	12.828	75	562	0.21	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.799	119	29924	0.46	ppb	#	85
91) 1,2,4-Trichlorobenzene	13.793	180	5194	0.38	ppb	#	22
92) Hexachloro-1,3-Butadiene	13.964	225	3049m	0.43	ppb		
93) Naphthalene	14.083	128	16898	0.72	ppb	#	77
94) 1,2,3-Trichlorobenzene	14.339	180	3014	0.37	ppb	#	88

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908309.D
Acq On : 15 Oct 2019 1:26 pm
Operator : LLJ
Sample : SEQ-CAL1
Misc : QBQV9101519A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 16 11:45:14 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908310.D
Acq On : 15 Oct 2019 1:54 pm
Operator : LLJ
Sample : SEQ-CAL2
Misc : QBQV9101519A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 16 11:46:38 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.866	70	266895	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.923	117	932784	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.916	152	237952	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.546	65	257063	8.42	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 84.20%				
51) Toluene-d8 (SURR)	7.414	98	1337449	10.77	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 107.70%				
70) p-Bromofluorobenzene (...	10.213	95	445945	10.36	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 103.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.602	85	48630	2.15	ppb	#	1
3) Chloromethane	1.783	50	12608	2.27	ppb	#	93
4) Vinyl Chloride	1.887	62	44331	1.68	ppb	#	99
5) Bromomethane	2.224	94	7315m	12.10	ppb		
6) Chloroethane	2.329	64	25215	1.67	ppb	#	20
7) Trichlorofluoromethane	2.593	101	63019	1.73	ppb	#	20
8) Ethanol	2.715	45	3560m	79.22	ppb		
9) Freon-113	3.105	101	34214	1.40	ppb	#	1
10) 1,1-Dichloroethylene	3.096	61	84536	1.85	ppb		92
11) Acrolein	2.971	56	2481m	1.29	ppb		
12) Acetone	3.096	43	9539	3.08	ppb	#	1
13) Iodomethane	3.244	142	16446	1.48	ppb	#	71
14) Methyl Acetate	3.410	43	11050	1.27	ppb	#	1
15) Carbon disulfide	3.332	76	135185	1.85	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.631	59	2096m	1.03	ppb		
17) Methylene Chloride	3.555	49	59622	1.81	ppb	#	81
18) Acrylonitrile	3.834	53	543	0.58	ppb	#	1
19) trans-1,2-Dichloroethy...	3.843	61	76717	1.80	ppb	#	89
20) tert-Butyl Methyl Ethe...	3.826	73	104034	1.55	ppb	#	95
21) 1,1-Dichloroethane	4.235	63	103589	1.90	ppb	#	99
22) Vinyl Acetate	4.224	43	38008	1.32	ppb	#	1
23) Diisopropyl ether (DIPE)	4.276	45	138372	1.59	ppb	#	54
24) Ethyl-tert-Butyl ether...	4.616	59	135272	1.38	ppb	#	97
25) cis-1,2-Dichloroethylene	4.764	61	92694	1.78	ppb	#	86
26) 2-Butanone	4.726	72	5980m	4.04	ppb		
27) 2,2-Dichloropropane	4.779	77	88585	1.83	ppb	#	87
28) Tetrahydrofuran	5.023	42	5499m	1.52	ppb		
29) Bromochloromethane	4.991	49	34899	2.01	ppb	#	54
30) Chloroform	5.078	83	96709	1.75	ppb	#	85
31) 1,1,1-Trichloroethane	5.261	97	91743	1.76	ppb	#	56
32) Cyclohexane	5.363	56	203872	1.74	ppb	#	84
33) 1,1-Dichloropropylene	5.409	75	74430	1.71	ppb	#	66
35) Carbon Tetrachloride	5.424	117	74671	1.79	ppb	#	53
36) tert-Amyl alcohol (TAA)	5.549	59	13080	12.10	ppb	#	1
37) 1,2-Dichloroethane	5.621	62	58973	1.56	ppb	#	100
38) Benzene	5.589	78	224668	1.93	ppb	#	95
39) tert-Amyl methyl ether...	5.714	73	100833	1.46	ppb	#	1
41) Trichloroethylene	6.223	95	58490	1.91	ppb	#	74
42) Methyl Cyclohexane	6.479	83	72325	1.56	ppb	#	61
43) Methyl Methacrylate	6.482	69	32018	1.56	ppb	#	99
44) Dibromomethane	6.540	93	20571	1.69	ppb	#	49
45) Bromodichloromethane	6.702	83	64158	1.74	ppb	#	97
46) 1,2-Dichloropropane	6.458	63	54243	1.93	ppb	#	82
47) 1,4-Dioxane	6.528	88	1294m	26.71	ppb		
49) cis-1,3-Dichloropropene	7.130	75	75491	1.82	ppb	#	59
50) 4-Methyl-2-Pentanone	7.249	43	19272	1.58	ppb	#	86
52) Toluene	7.481	91	249876	2.16	ppb		99

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908310.D
Acq On : 15 Oct 2019 1:54 pm
Operator : LLJ
Sample : SEQ-CAL2
Misc : QBQV9101519A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 16 11:46:38 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

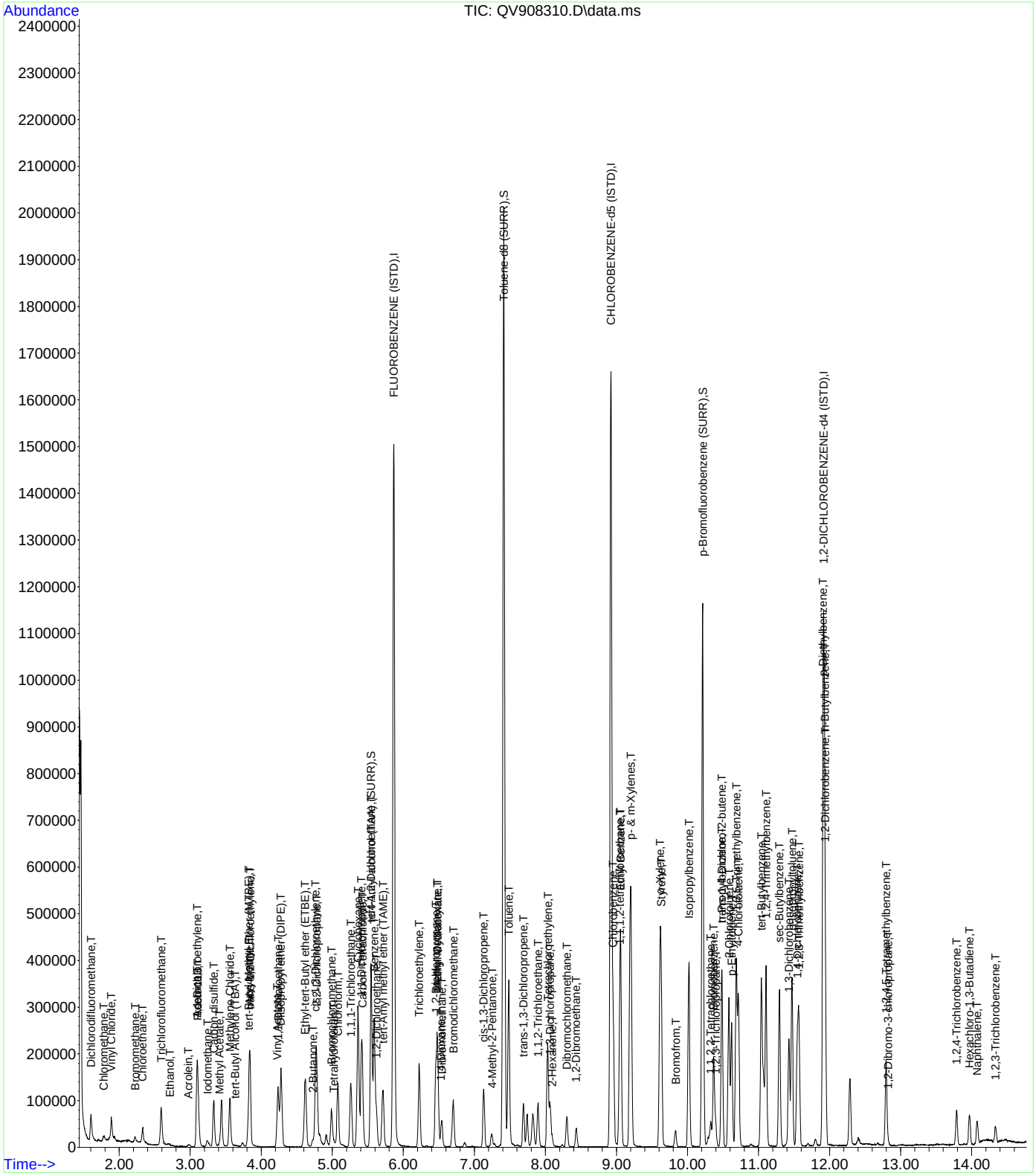
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.691	75	54534	1.66	ppb	#	88
54) 1,1,2-Trichloroethane	7.894	97	30446	1.75	ppb	#	1
55) 1,3-Dichloropropane	8.062	76	54213	1.74	ppb	#	96
56) Tetrachloroethylene	8.033	166	60402	1.83	ppb	#	100
57) 2-Hexanone	8.094	43	13661	1.66	ppb	#	14
58) Dibromochloromethane	8.301	129	34235	1.65	ppb	#	84
59) 1,2-Dibromoethane	8.432	107	26665	1.67	ppb		93
60) Chlorobenzene	8.952	112	144850	1.93	ppb	#	80
61) 1,1,1,2-tetrachloroethane	9.045	131	46559	1.81	ppb	#	46
62) Ethyl Benzene	9.059	91	284314	1.76	ppb		95
63) p- & m-Xylenes	9.199	91	452003m	3.65	ppb		
64) o-Xylene	9.611	91	230159	2.12	ppb		96
65) Styrene	9.629	104	154599	1.96	ppb	#	93
66) Bromofrom	9.835	173	16265	1.60	ppb	#	95
68) p-Ethyltoluene	10.620	105	176161	1.78	ppb	#	97
69) Isopropylbenzene	10.018	105	286956	2.13	ppb	#	92
71) 1,1,2,2-Tetrachloroethane	10.326	83	27077	1.80	ppb	#	65
72) Bromobenzene	10.367	77	95204	2.05	ppb	#	73
73) trans-1,4-Dichloro-2-b...	10.483	75	2350	2.49	ppb	#	1
74) 1,2,3-Trichloropropane	10.396	110	8172	1.82	ppb	#	1
75) n-Propylbenzene	10.483	91	326680	1.29	ppb	#	89
76) 2-Chlorotoluene	10.585	91	197299	2.26	ppb		98
77) 4-Chlorotoluene	10.716	91	220350	2.29	ppb		95
78) 1,3,5-Trimethylbenzene	10.687	105	229716m	2.33	ppb		
79) tert-Butylbenzene	11.041	119	214378	2.34	ppb		96
80) 1,2,4-Trimethylbenzene	11.105	105	223428	2.39	ppb		94
81) sec-Butylbenzene	11.294	105	257925	2.47	ppb	#	91
82) 1,3-Dichlorobenzene	11.428	146	94955	2.16	ppb	#	90
83) p-Isopropyltoluene	11.471	119	224794	2.40	ppb		93
84) 1,4-Dichlorobenzene	11.547	146	89842	2.10	ppb		89
85) 1,2,3-Trimethylbenzene	11.570	105	164144	1.47	ppb	#	90
86) p-Diethylbenzene	11.907	105	82895	1.80	ppb	#	83
87) 1,2-Dichlorobenzene	11.939	146	73655	2.08	ppb	#	100
88) n-Butylbenzene	11.933	91	200762m	2.05	ppb		
89) 1,2-Dibromo-3-chloropr...	12.822	75	4310	1.50	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.796	119	107687	1.54	ppb	#	89
91) 1,2,4-Trichlorobenzene	13.784	180	22350	1.51	ppb	#	7
92) Hexachloro-1,3-Butadiene	13.967	225	13557	1.78	ppb	#	62
93) Naphthalene	14.075	128	40221	1.59	ppb	#	95
94) 1,2,3-Trichlorobenzene	14.334	180	10742	1.24	ppb	#	91

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908310.D
Acq On : 15 Oct 2019 1:54 pm
Operator : LLJ
Sample : SEQ-CAL2
Misc : QBQV9101519A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 16 11:46:38 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Data Path : C:\msdchem\1\data\101519A\
Data File : QV908311.D
Acq On : 15 Oct 2019 2:22 pm
Operator : LLJ
Sample : SEQ-CAL3
Misc : QBQV9101519A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 15 18:16:57 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.865	70	278022	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.923	117	963408	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.916	152	248367	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.546	65	267566	8.41	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 84.10%				
51) Toluene-d8 (SURR)	7.414	98	1373126	10.70	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 107.00%				
70) p-Bromofluorobenzene (...	10.213	95	475208	10.57	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 105.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.602	85	128365	5.44	ppb	#	1
3) Chloromethane	1.786	50	31055	5.18	ppb		94
4) Vinyl Chloride	1.890	62	113208	4.12	ppb	#	98
5) Bromomethane	2.221	94	16442m	18.40	ppb		
6) Chloroethane	2.332	64	61985	3.93	ppb	#	25
7) Trichlorofluoromethane	2.590	101	164047	4.33	ppb	#	20
8) Ethanol	2.713	45	10380m	221.73	ppb		
9) Freon-113	3.114	101	89607	3.51	ppb	#	1
10) 1,1-Dichloroethylene	3.099	61	162468	3.41	ppb	#	86
11) Acrolein	2.974	56	4292	2.15	ppb	#	1
12) Acetone	3.093	43	14957	4.62	ppb	#	1
13) Iodomethane	3.241	142	35489	3.05	ppb	#	74
14) Methyl Acetate	3.413	43	26494	2.93	ppb	#	1
15) Carbon disulfide	3.331	76	256230	3.36	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.628	59	4000	1.89	ppb	#	1
17) Methylene Chloride	3.555	49	116619	3.40	ppb	#	83
18) Acrylonitrile	3.823	53	2425	2.50	ppb	#	1
19) trans-1,2-Dichloroethy...	3.837	61	148429	3.35	ppb	#	85
20) tert-Butyl Methyl Ethe...	3.828	73	198652	2.85	ppb	#	95
21) 1,1-Dichloroethane	4.238	63	197470	3.48	ppb	#	99
22) Vinyl Acetate	4.221	43	77225	2.58	ppb	#	1
23) Diisopropyl ether (DIPE)	4.279	45	362780	4.00	ppb	#	54
24) Ethyl-tert-Butyl ether...	4.619	59	353235	3.45	ppb	#	97
25) cis-1,2-Dichloroethylene	4.764	61	177519	3.28	ppb	#	86
26) 2-Butanone	4.721	72	8299m	5.39	ppb		
27) 2,2-Dichloropropane	4.782	77	170593	3.37	ppb	#	87
28) Tetrahydrofuran	5.017	42	10519	2.79	ppb	#	2
29) Bromochloromethane	4.988	49	67683	3.74	ppb	#	53
30) Chloroform	5.078	83	186374	3.23	ppb	#	85
31) 1,1,1-Trichloroethane	5.261	97	175405	3.24	ppb	#	26
32) Cyclohexane	5.363	56	444251	3.64	ppb	#	85
33) 1,1-Dichloropropylene	5.409	75	150956	3.33	ppb	#	59
35) Carbon Tetrachloride	5.424	117	146746	3.38	ppb	#	100
36) tert-Amyl alcohol (TAA)	5.546	59	35082	31.15	ppb	#	1
37) 1,2-Dichloroethane	5.624	62	113220	2.87	ppb	#	100
38) Benzene	5.589	78	429558	3.55	ppb	#	96
39) tert-Amyl methyl ether...	5.711	73	267392	3.72	ppb	#	1
41) Trichloroethylene	6.220	95	112242	3.55	ppb	#	73
42) Methyl Cyclohexane	6.479	83	190624	3.98	ppb	#	51
43) Methyl Methacrylate	6.484	69	72929	3.44	ppb	#	98
44) Dibromomethane	6.537	93	38759	3.09	ppb	#	49
45) Bromodichloromethane	6.702	83	126637	3.33	ppb	#	97
46) 1,2-Dichloropropane	6.455	63	104835	3.62	ppb	#	92
47) 1,4-Dioxane	6.519	88	3511m	70.27	ppb		
49) cis-1,3-Dichloropropene	7.132	75	146492	3.43	ppb	#	63
50) 4-Methyl-2-Pentanone	7.243	43	37246	2.96	ppb	#	59
52) Toluene	7.484	91	476794	4.00	ppb		99

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908311.D
Acq On : 15 Oct 2019 2:22 pm
Operator : LLJ
Sample : SEQ-CAL3
Misc : QBQV9101519A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 15 18:16:57 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

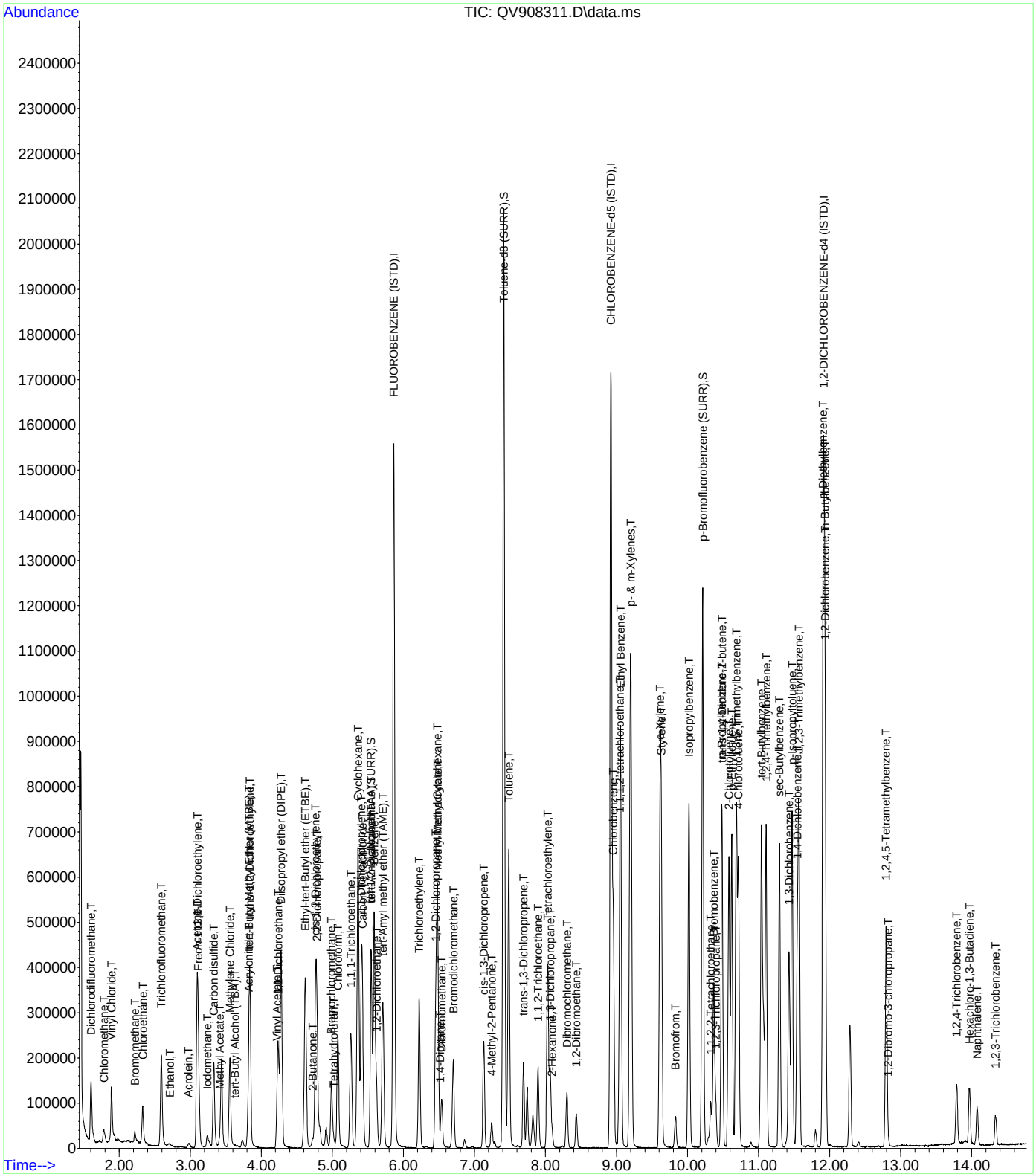
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.690	75	107523	3.16	ppb	#	98
54) 1,1,2-Trichloroethane	7.894	97	56330	3.14	ppb	#	1
55) 1,3-Dichloropropane	8.065	76	102400	3.19	ppb	#	98
56) Tetrachloroethylene	8.030	166	119473	3.51	ppb	#	100
57) 2-Hexanone	8.091	43	24720	2.90	ppb	#	1
58) Dibromochloromethane	8.304	129	66045	3.08	ppb	#	86
59) 1,2-Dibromoethane	8.434	107	51290	3.11	ppb		96
60) Chlorobenzene	8.955	112	284223	3.66	ppb	#	84
61) 1,1,1,2-tetrachloroethane	9.045	131	91500	3.45	ppb	#	46
62) Ethyl Benzene	9.059	91	548579	3.31	ppb		96
63) p- & m-Xylenes	9.199	91	875017	6.88	ppb		93
64) o-Xylene	9.611	91	439112	3.93	ppb		96
65) Styrene	9.632	104	300388	3.69	ppb	#	82
66) Bromofrom	9.829	173	31158	2.97	ppb	#	81
68) p-Ethyltoluene	10.620	105	462887	4.49	ppb	#	97
69) Isopropylbenzene	10.021	105	555608	3.96	ppb	#	91
71) 1,1,2,2-Tetrachloroethane	10.326	83	53463	3.40	ppb	#	65
72) Bromobenzene	10.370	77	186833	3.85	ppb	#	72
73) trans-1,4-Dichloro-2-b...	10.486	75	4466	4.54	ppb	#	1
74) 1,2,3-Trichloropropane	10.396	110	16071	3.42	ppb	#	1
75) n-Propylbenzene	10.483	91	639809	3.27	ppb	#	89
76) 2-Chlorotoluene	10.582	91	384637	4.22	ppb		98
77) 4-Chlorotoluene	10.716	91	431253	4.29	ppb		95
78) 1,3,5-Trimethylbenzene	10.687	105	455212m	4.42	ppb		
79) tert-Butylbenzene	11.041	119	414212	4.33	ppb		96
80) 1,2,4-Trimethylbenzene	11.108	105	432868	4.43	ppb		94
81) sec-Butylbenzene	11.294	105	507257	4.66	ppb	#	91
82) 1,3-Dichlorobenzene	11.428	146	182237	3.97	ppb		91
83) p-Isopropyltoluene	11.471	119	443901	4.54	ppb		93
84) 1,4-Dichlorobenzene	11.547	146	175986	3.94	ppb		89
85) 1,2,3-Trimethylbenzene	11.567	105	452029	3.88	ppb	#	91
86) p-Diethylbenzene	11.907	105	209941	4.37	ppb	#	54
87) 1,2-Dichlorobenzene	11.939	146	138080	3.74	ppb	#	100
88) n-Butylbenzene	11.933	91	399467m	3.90	ppb		
89) 1,2-Dibromo-3-chloropr...	12.822	75	8379	2.80	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.793	119	288037	3.95	ppb	#	87
91) 1,2,4-Trichlorobenzene	13.787	180	40920	2.65	ppb	#	2
92) Hexachloro-1,3-Butadiene	13.967	225	26325	3.31	ppb	#	83
93) Naphthalene	14.075	128	66248	2.51	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.333	180	20426	2.25	ppb	#	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908311.D
Acq On : 15 Oct 2019 2:22 pm
Operator : LLJ
Sample : SEQ-CAL3
Misc : QBQV9101519A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 15 18:16:57 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908312.D
Acq On : 15 Oct 2019 2:49 pm
Operator : LLJ
Sample : SEQ-CAL4
Misc : QBQV9101519A
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 15 18:16:07 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.863	70	280786	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.923	117	975928	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.916	152	273279	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.549	65	282483	8.79	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 87.90%				
51) Toluene-d8 (SURR)	7.414	98	1376100	10.59	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 105.90%				
70) p-Bromofluorobenzene (...	10.213	95	493827	9.99	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 99.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.602	85	287131	12.06	ppb	#	1
3) Chloromethane	1.783	50	82257	12.54	ppb		92
4) Vinyl Chloride	1.890	62	277858	10.01	ppb	#	98
5) Bromomethane	2.221	94	50928	33.25	ppb		98
6) Chloroethane	2.329	64	152977	9.61	ppb	#	19
7) Trichlorofluoromethane	2.593	101	350772	9.17	ppb	#	19
8) Ethanol	2.715	45	25833m	546.40	ppb		
9) Freon-113	3.116	101	232434	9.01	ppb	#	1
10) 1,1-Dichloroethylene	3.096	61	447361	9.30	ppb	#	87
11) Acrolein	2.971	56	13013	6.45	ppb	#	1
12) Acetone	3.099	43	50508	14.92	ppb	#	1
13) Iodomethane	3.239	142	111535	9.27	ppb	#	71
14) Methyl Acetate	3.413	43	77287	8.46	ppb	#	1
15) Carbon disulfide	3.332	76	698713	9.08	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.625	59	14944	7.02	ppb	#	1
17) Methylene Chloride	3.558	49	333182	9.61	ppb	#	82
18) Acrylonitrile	3.823	53	6695	6.89	ppb	#	1
19) trans-1,2-Dichloroethy...	3.840	61	426430	9.52	ppb	#	85
20) tert-Butyl Methyl Ethe...	3.828	73	608117	8.64	ppb	#	95
21) 1,1-Dichloroethane	4.238	63	574004	10.01	ppb	#	99
22) Vinyl Acetate	4.224	43	232253	7.68	ppb	#	1
23) Diisopropyl ether (DIPE)	4.279	45	930758	10.16	ppb	#	53
24) Ethyl-tert-Butyl ether...	4.619	59	925829	9.02	ppb	#	97
25) cis-1,2-Dichloroethylene	4.767	61	511681	9.35	ppb	#	80
26) 2-Butanone	4.723	72	20940m	13.52	ppb		
27) 2,2-Dichloropropane	4.782	77	480285	9.41	ppb	#	83
28) Tetrahydrofuran	5.014	42	31127	8.18	ppb	#	1
29) Bromochloromethane	4.988	49	193378	10.58	ppb	#	33
30) Chloroform	5.081	83	542942	9.32	ppb	#	96
31) 1,1,1-Trichloroethane	5.261	97	498533	9.11	ppb	#	74
32) Cyclohexane	5.363	56	1191309	9.65	ppb	#	84
33) 1,1-Dichloropropylene	5.412	75	417414	9.12	ppb	#	55
35) Carbon Tetrachloride	5.427	117	401462	9.17	ppb	#	53
36) tert-Amyl alcohol (TAA)	5.549	59	97731	85.94	ppb	#	1
37) 1,2-Dichloroethane	5.621	62	338212	8.48	ppb	#	98
38) Benzene	5.589	78	1235970	10.11	ppb	#	96
39) tert-Amyl methyl ether...	5.712	73	694809	9.59	ppb	#	1
41) Trichloroethylene	6.226	95	323621	10.10	ppb	#	74
42) Methyl Cyclohexane	6.479	83	498579	10.27	ppb	#	47
43) Methyl Methacrylate	6.484	69	208307	9.71	ppb	#	98
44) Dibromomethane	6.540	93	121943	9.59	ppb	#	53
45) Bromodichloromethane	6.702	83	384346	9.98	ppb	#	97
46) 1,2-Dichloropropane	6.455	63	312924	10.67	ppb	#	84
47) 1,4-Dioxane	6.522	88	9786m	194.18	ppb		
49) cis-1,3-Dichloropropene	7.133	75	441542	10.20	ppb	#	55
50) 4-Methyl-2-Pentanone	7.246	43	121578	9.53	ppb	#	65
52) Toluene	7.484	91	1359415	11.25	ppb		99

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908312.D
Acq On : 15 Oct 2019 2:49 pm
Operator : LLJ
Sample : SEQ-CAL4
Misc : QBQV9101519A
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 15 18:16:07 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

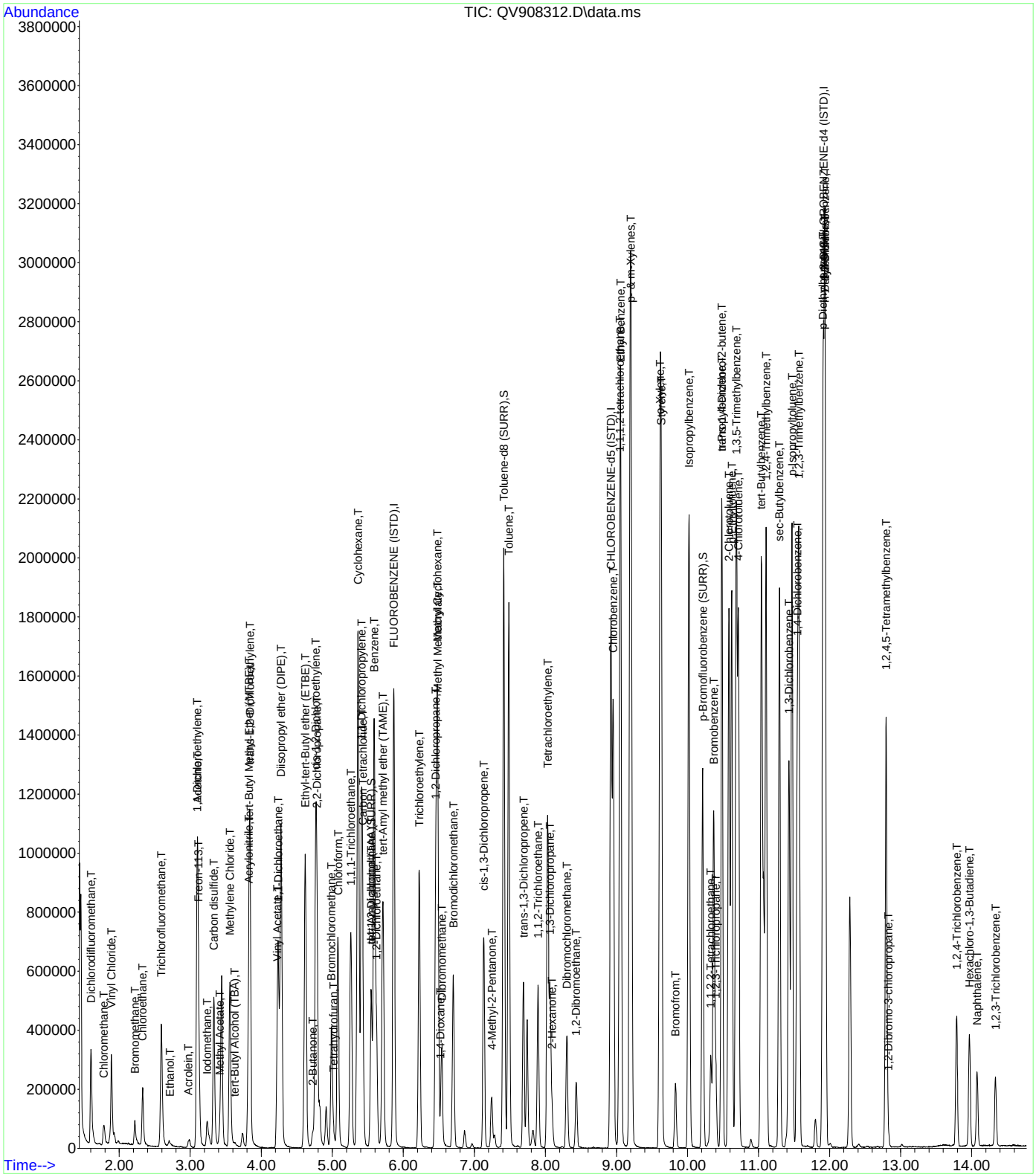
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.693	75	339555	9.86	ppb	#	88
54) 1,1,2-Trichloroethane	7.894	97	176137	9.70	ppb	#	1
55) 1,3-Dichloropropane	8.062	76	312979	9.63	ppb	#	68
56) Tetrachloroethylene	8.030	166	333268	9.67	ppb	#	100
57) 2-Hexanone	8.091	43	88044	10.20	ppb	#	1
58) Dibromochloromethane	8.301	129	207220	9.55	ppb	#	84
59) 1,2-Dibromoethane	8.431	107	155520	9.31	ppb		92
60) Chlorobenzene	8.955	112	828776	10.53	ppb	#	85
61) 1,1,1,2-tetrachloroethane	9.048	131	272501	10.15	ppb	#	49
62) Ethyl Benzene	9.059	91	1569005	9.53	ppb		95
63) p- & m-Xylenes	9.199	91	2479992	19.70	ppb		93
64) o-Xylene	9.611	91	1281086	11.30	ppb		96
65) Styrene	9.632	104	902764	10.94	ppb	#	82
66) Bromofrom	9.829	173	101832	9.58	ppb	#	81
68) p-Ethyltoluene	10.623	105	1295893	11.43	ppb	#	97
69) Isopropylbenzene	10.021	105	1573126	10.37	ppb	#	91
71) 1,1,2,2-Tetrachloroethane	10.326	83	166840	9.63	ppb	#	65
72) Bromobenzene	10.370	77	559998	10.50	ppb	#	73
73) trans-1,4-Dichloro-2-b...	10.483	75	11554	10.68	ppb	#	1
74) 1,2,3-Trichloropropane	10.396	110	49083	9.50	ppb	#	1
75) n-Propylbenzene	10.483	91	1829800	10.22	ppb	#	89
76) 2-Chlorotoluene	10.582	91	1133812	11.30	ppb		97
77) 4-Chlorotoluene	10.716	91	1255767	11.36	ppb		95
78) 1,3,5-Trimethylbenzene	10.687	105	1287618m	11.37	ppb		
79) tert-Butylbenzene	11.038	119	1203465	11.43	ppb		96
80) 1,2,4-Trimethylbenzene	11.105	105	1270274	11.83	ppb		94
81) sec-Butylbenzene	11.294	105	1456078	12.16	ppb	#	91
82) 1,3-Dichlorobenzene	11.428	146	552085	10.94	ppb		91
83) p-Isopropyltoluene	11.471	119	1280737	11.90	ppb		93
84) 1,4-Dichlorobenzene	11.547	146	532897	10.85	ppb		90
85) 1,2,3-Trimethylbenzene	11.567	105	1190100	9.29	ppb	#	91
86) p-Diethylbenzene	11.907	105	591248	11.17	ppb	#	52
87) 1,2-Dichlorobenzene	11.939	146	439171	10.80	ppb	#	100
88) n-Butylbenzene	11.933	91	1235496m	10.97	ppb		
89) 1,2-Dibromo-3-chloropr...	12.825	75	27551	8.37	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.796	119	847255	10.55	ppb	#	88
91) 1,2,4-Trichlorobenzene	13.790	180	141572	8.33	ppb	#	10
92) Hexachloro-1,3-Butadiene	13.967	225	80837	9.23	ppb	#	66
93) Naphthalene	14.075	128	210312	7.25	ppb	#	83
94) 1,2,3-Trichlorobenzene	14.336	180	72434	7.27	ppb	#	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908312.D
Acq On : 15 Oct 2019 2:49 pm
Operator : LLJ
Sample : SEQ-CAL4
Misc : QBQV9101519A
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 15 18:16:07 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908313.D
Acq On : 15 Oct 2019 3:16 pm
Operator : LLJ
Sample : SEQ-CAL5
Misc : QBQV9101519A
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 15 18:20:48 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.865	70	270522	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.923	117	959440	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.916	152	264589	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.546	65	274011	8.85	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 88.50%				
51) Toluene-d8 (SURR)	7.414	98	1335480	10.45	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 104.50%				
70) p-Bromofluorobenzene (...	10.213	95	484050	10.11	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 101.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.602	85	575435	25.08	ppb	#	1
3) Chloromethane	1.783	50	169142	23.89	ppb		93
4) Vinyl Chloride	1.890	62	548441	20.51	ppb	#	98
5) Bromomethane	2.221	94	106038	49.55	ppb		98
6) Chloroethane	2.329	64	290537	18.95	ppb	#	20
7) Trichlorofluoromethane	2.596	101	674075	18.28	ppb	#	20
8) Ethanol	2.721	45	48812m	1071.61	ppb		
9) Freon-113	3.111	101	459305	18.48	ppb	#	1
10) 1,1-Dichloroethylene	3.096	61	849801	18.33	ppb	#	86
11) Acrolein	2.971	56	26664	13.72	ppb	#	1
12) Acetone	3.099	43	80059	23.84	ppb	#	1
13) Iodomethane	3.238	142	238878	19.79	ppb	#	72
14) Methyl Acetate	3.413	43	149329	16.97	ppb	#	1
15) Carbon disulfide	3.331	76	1329572	17.94	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.625	59	28312m	13.89	ppb		
17) Methylene Chloride	3.558	49	605235	18.12	ppb	#	81
18) Acrylonitrile	3.828	53	11417	12.31	ppb	#	1
19) trans-1,2-Dichloroethy...	3.840	61	801284	18.57	ppb	#	85
20) tert-Butyl Methyl Ethe...	3.825	73	1140653	16.81	ppb	#	95
21) 1,1-Dichloroethane	4.238	63	1064189	19.26	ppb	#	99
22) Vinyl Acetate	4.224	43	470863	16.17	ppb	#	1
23) Diisopropyl ether (DIPE)	4.279	45	1744585	19.76	ppb	#	53
24) Ethyl-tert-Butyl ether...	4.619	59	1756174	17.92	ppb	#	97
25) cis-1,2-Dichloroethylene	4.764	61	963708	18.28	ppb	#	86
26) 2-Butanone	4.723	72	34483m	23.26	ppb		
27) 2,2-Dichloropropane	4.782	77	907251	18.45	ppb	#	88
28) Tetrahydrofuran	5.014	42	57685	15.73	ppb	#	1
29) Bromochloromethane	4.988	49	343640	19.51	ppb	#	54
30) Chloroform	5.078	83	993990	17.71	ppb	#	85
31) 1,1,1-Trichloroethane	5.261	97	930735	17.65	ppb	#	55
32) Cyclohexane	5.366	56	2249986	18.93	ppb	#	83
33) 1,1-Dichloropropylene	5.409	75	777073	17.63	ppb	#	56
35) Carbon Tetrachloride	5.424	117	766329	18.17	ppb	#	100
36) tert-Amyl alcohol (TAA)	5.549	59	182309	166.39	ppb	#	16
37) 1,2-Dichloroethane	5.621	62	621924	16.18	ppb	#	100
38) Benzene	5.589	78	2261591	19.21	ppb	#	95
39) tert-Amyl methyl ether...	5.711	73	1303910	18.75	ppb	#	1
41) Trichloroethylene	6.223	95	594592	18.87	ppb	#	74
42) Methyl Cyclohexane	6.481	83	967178	20.26	ppb	#	50
43) Methyl Methacrylate	6.481	69	392185	18.60	ppb	#	98
44) Dibromomethane	6.540	93	224156	17.94	ppb	#	89
45) Bromodichloromethane	6.702	83	704201	18.60	ppb	#	97
46) 1,2-Dichloropropane	6.455	63	566413	19.64	ppb	#	92
47) 1,4-Dioxane	6.525	88	18773m	381.38	ppb		
49) cis-1,3-Dichloropropene	7.132	75	821592	19.30	ppb	#	55
50) 4-Methyl-2-Pentanone	7.240	43	216467	17.26	ppb	#	58
52) Toluene	7.484	91	2488162	20.95	ppb		100

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908313.D
Acq On : 15 Oct 2019 3:16 pm
Operator : LLJ
Sample : SEQ-CAL5
Misc : QBQV9101519A
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 15 18:20:48 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

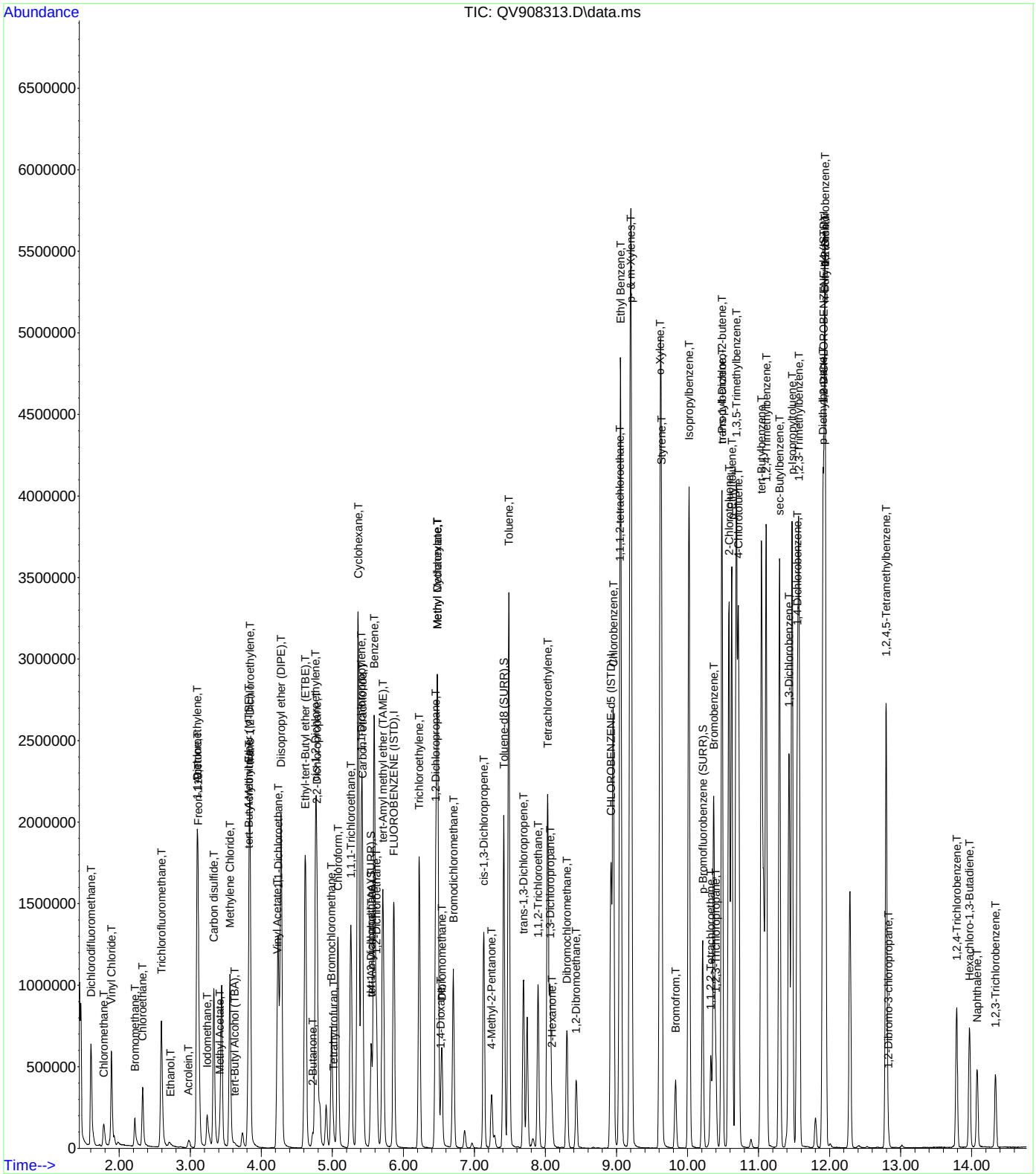
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.690	75	628994	18.58	ppb	#	88
54) 1,1,2-Trichloroethane	7.894	97	324165	18.16	ppb	#	1
55) 1,3-Dichloropropane	8.065	76	574887	17.99	ppb	#	68
56) Tetrachloroethylene	8.030	166	621854	18.35	ppb	#	100
57) 2-Hexanone	8.091	43	152189	17.93	ppb	#	1
58) Dibromochloromethane	8.301	129	388863	18.23	ppb	#	84
59) 1,2-Dibromoethane	8.431	107	289979	17.65	ppb		93
60) Chlorobenzene	8.957	112	1511594	19.54	ppb	#	86
61) 1,1,1,2-tetrachloroethane	9.045	131	504387	19.10	ppb	#	48
62) Ethyl Benzene	9.059	91	2893715	18.39	ppb		95
63) p- & m-Xylenes	9.201	91	4631064	38.76	ppb		93
64) o-Xylene	9.614	91	2342334	21.02	ppb		96
65) Styrene	9.634	104	1678328	20.68	ppb	#	82
66) Bromofrom	9.832	173	194557	18.62	ppb	#	81
68) p-Ethyltoluene	10.623	105	2415950	22.00	ppb	#	97
69) Isopropylbenzene	10.021	105	2911838	20.34	ppb	#	91
71) 1,1,2,2-Tetrachloroethane	10.326	83	309154	18.44	ppb	#	65
72) Bromobenzene	10.370	77	1041813	20.17	ppb	#	73
73) trans-1,4-Dichloro-2-b...	10.486	75	21089	20.13	ppb	#	1
74) 1,2,3-Trichloropropane	10.396	110	90336	18.05	ppb	#	1
75) n-Propylbenzene	10.486	91	3412756	21.23	ppb	#	89
76) 2-Chlorotoluene	10.585	91	2066342	21.28	ppb		97
77) 4-Chlorotoluene	10.716	91	2329448	21.76	ppb		95
78) 1,3,5-Trimethylbenzene	10.686	105	2398052m	21.88	ppb		
79) tert-Butylbenzene	11.041	119	2214447	21.72	ppb		96
80) 1,2,4-Trimethylbenzene	11.108	105	2312597	22.24	ppb		93
81) sec-Butylbenzene	11.297	105	2721171	23.48	ppb	#	91
82) 1,3-Dichlorobenzene	11.427	146	1025422	20.99	ppb		92
83) p-Isopropyltoluene	11.471	119	2379068	22.83	ppb		93
84) 1,4-Dichlorobenzene	11.547	146	979373	20.59	ppb		90
85) 1,2,3-Trimethylbenzene	11.567	105	2176871	17.55	ppb	#	91
86) p-Diethylbenzene	11.907	105	1125090	21.96	ppb	#	54
87) 1,2-Dichlorobenzene	11.939	146	795420	20.21	ppb	#	100
88) n-Butylbenzene	11.933	91	2213396m	20.30	ppb		
89) 1,2-Dibromo-3-chloropr...	12.825	75	52619	16.52	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.796	119	1595019	20.52	ppb	#	87
91) 1,2,4-Trichlorobenzene	13.790	180	275933	16.76	ppb	#	12
92) Hexachloro-1,3-Butadiene	13.967	225	158402	18.69	ppb	#	64
93) Naphthalene	14.075	128	401727	14.31	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.333	180	142986	14.81	ppb	#	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908313.D
Acq On : 15 Oct 2019 3:16 pm
Operator : LLJ
Sample : SEQ-CAL5
Misc : QBQV9101519A
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 15 18:20:48 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908314.D
Acq On : 15 Oct 2019 3:44 pm
Operator : LLJ
Sample : SEQ-CAL6
Misc : QBQV9101519A
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 16 11:53:42 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.865	70	292691	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	8.923	117	1011752	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.916	152	270375	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.546	65	297305	8.88	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 88.80%				
51) Toluene-d8 (SURR)	7.414	98	1408278	10.45	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 104.50%				
70) p-Bromofluorobenzene (...	10.216	95	490734	10.03	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 100.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.602	85	1184274	47.71	ppb	#	1
3) Chloromethane	1.783	50	451214	48.01	ppb		93
4) Vinyl Chloride	1.890	62	1177720	40.71	ppb	#	98
5) Bromomethane	2.218	94	262559	75.69	ppb		97
6) Chloroethane	2.332	64	608689	36.69	ppb	#	20
7) Trichlorofluoromethane	2.593	101	1399054	35.07	ppb	#	20
8) Ethanol	2.707	45	74772m	1517.20	ppb		
9) Freon-113	3.114	101	984983	36.63	ppb	#	1
10) 1,1-Dichloroethylene	3.099	61	1766838	35.22	ppb	#	85
11) Acrolein	2.968	56	59089	28.11	ppb	#	1
12) Acetone	3.093	43	125448	33.50	ppb	#	1
13) Iodomethane	3.238	142	589081	41.70	ppb	#	72
14) Methyl Acetate	3.416	43	291964	30.66	ppb	#	1
15) Carbon disulfide	3.331	76	2817125	35.13	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.622	59	46313m	21.13	ppb		
17) Methylene Chloride	3.558	49	1291329	35.73	ppb	#	81
18) Acrylonitrile	3.820	53	25407	25.94	ppb	#	1
19) trans-1,2-Dichloroethy...	3.843	61	1702478	36.47	ppb	#	89
20) tert-Butyl Methyl Ethe...	3.825	73	2476471	33.74	ppb	#	95
21) 1,1-Dichloroethane	4.238	63	2302834	38.52	ppb	#	99
22) Vinyl Acetate	4.224	43	1003614	31.85	ppb	#	1
23) Diisopropyl ether (DIPE)	4.279	45	3728618	39.04	ppb	#	53
24) Ethyl-tert-Butyl ether...	4.622	59	3792425	36.49	ppb	#	79
25) cis-1,2-Dichloroethylene	4.764	61	2047309	35.89	ppb	#	86
26) 2-Butanone	4.721	72	62632m	39.45	ppb		
27) 2,2-Dichloropropane	4.782	77	1909164	35.87	ppb	#	87
28) Tetrahydrofuran	5.014	42	114758	28.92	ppb	#	1
29) Bromochloromethane	4.988	49	692227	36.32	ppb	#	52
30) Chloroform	5.078	83	2185526	36.00	ppb	#	85
31) 1,1,1-Trichloroethane	5.258	97	2058937	36.09	ppb	#	74
32) Cyclohexane	5.363	56	4857746	37.76	ppb	#	84
33) 1,1-Dichloropropylene	5.412	75	1720486	36.07	ppb	#	57
35) Carbon Tetrachloride	5.427	117	1672897	36.65	ppb	#	100
36) tert-Amyl alcohol (TAA)	5.546	59	331365	279.52	ppb	#	1
37) 1,2-Dichloroethane	5.621	62	1348619	32.43	ppb	#	98
38) Benzene	5.589	78	4907128	38.52	ppb	#	95
39) tert-Amyl methyl ether...	5.711	73	2882651	38.63	ppb	#	1
41) Trichloroethylene	6.223	95	1293846	38.94	ppb	#	73
42) Methyl Cyclohexane	6.482	83	2112149	41.96	ppb	#	51
43) Methyl Methacrylate	6.484	69	852650	38.34	ppb	#	98
44) Dibromomethane	6.540	93	482700	36.63	ppb	#	89
45) Bromodichloromethane	6.705	83	1542813	38.64	ppb	#	96
46) 1,2-Dichloropropane	6.458	63	1211209	39.83	ppb	#	92
47) 1,4-Dioxane	6.519	88	34901m	679.44	ppb		
49) cis-1,3-Dichloropropene	7.132	75	1777762	39.60	ppb	#	55
50) 4-Methyl-2-Pentanone	7.240	43	453340	34.28	ppb	#	59
52) Toluene	7.484	91	5331105	42.56	ppb		99

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908314.D
Acq On : 15 Oct 2019 3:44 pm
Operator : LLJ
Sample : SEQ-CAL6
Misc : QBQV9101519A
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 16 11:53:42 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

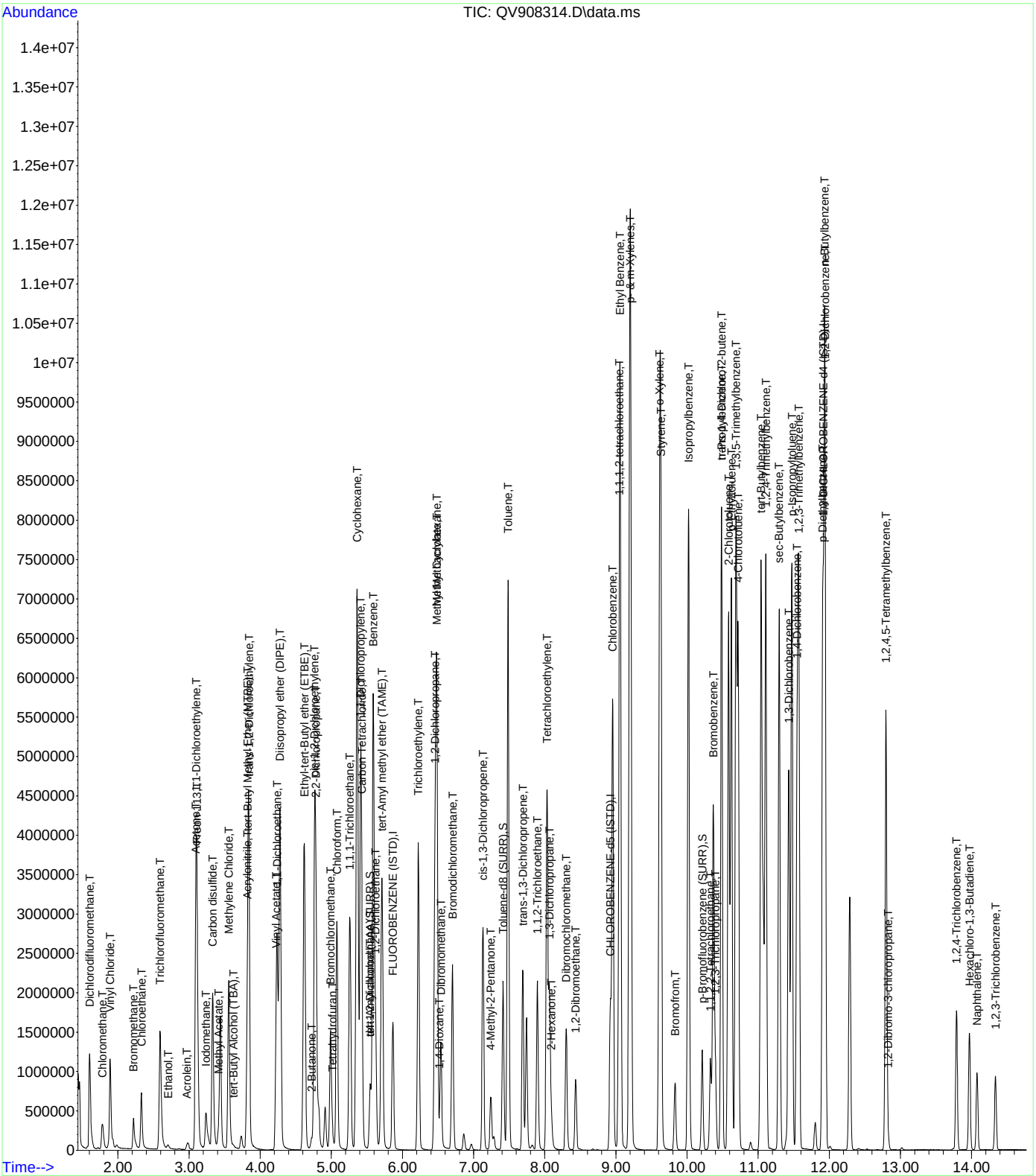
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.693	75	1371956	38.43	ppb	#	98
54) 1,1,2-Trichloroethane	7.897	97	691649	36.73	ppb	#	1
55) 1,3-Dichloropropane	8.065	76	1218762	36.16	ppb	#	68
56) Tetrachloroethylene	8.030	166	1347878	37.72	ppb	#	100
57) 2-Hexanone	8.091	43	305701	34.16	ppb	#	1
58) Dibromochloromethane	8.301	129	847257	37.67	ppb	#	84
59) 1,2-Dibromoethane	8.434	107	622894	35.96	ppb		93
60) Chlorobenzene	8.955	112	3205591	39.30	ppb	#	87
61) 1,1,1,2-tetrachloroethane	9.047	131	1051585	37.77	ppb	#	48
62) Ethyl Benzene	9.059	91	6029299	38.92	ppb		95
63) p- & m-Xylenes	9.202	91	9532784	82.41	ppb		93
64) o-Xylene	9.614	91	4818190	41.01	ppb		96
65) Styrene	9.635	104	3475953	40.62	ppb	#	82
66) Bromofrom	9.832	173	410615	37.26	ppb	#	81
68) p-Ethyltoluene	10.623	105	4989080	44.46	ppb	#	97
69) Isopropylbenzene	10.021	105	5913291	42.97	ppb	#	91
71) 1,1,2,2-Tetrachloroethane	10.329	83	629805	36.75	ppb	#	65
72) Bromobenzene	10.370	77	2136624	40.48	ppb	#	72
73) trans-1,4-Dichloro-2-b...	10.486	75	44664	41.71	ppb	#	1
74) 1,2,3-Trichloropropane	10.396	110	183996	35.98	ppb	#	1
75) n-Propylbenzene	10.486	91	6838798	45.82	ppb	#	89
76) 2-Chlorotoluene	10.585	91	4155353	41.87	ppb		97
77) 4-Chlorotoluene	10.718	91	4702766	42.99	ppb		95
78) 1,3,5-Trimethylbenzene	10.686	105	4774705m	42.63	ppb		
79) tert-Butylbenzene	11.041	119	4378612	42.03	ppb		96
80) 1,2,4-Trimethylbenzene	11.108	105	4689308	44.12	ppb		93
81) sec-Butylbenzene	11.294	105	5365963	45.31	ppb	#	92
82) 1,3-Dichlorobenzene	11.430	146	2058971	41.25	ppb		91
83) p-Isopropyltoluene	11.474	119	4701412	44.15	ppb		93
84) 1,4-Dichlorobenzene	11.547	146	1979826	40.73	ppb		90
85) 1,2,3-Trimethylbenzene	11.570	105	4341168	34.24	ppb	#	90
86) p-Diethylbenzene	11.907	105	2243290	42.85	ppb	#	53
87) 1,2-Dichlorobenzene	11.942	146	1586484	39.44	ppb	#	100
88) n-Butylbenzene	11.933	91	4596481m	41.24	ppb		
89) 1,2-Dibromo-3-chloropr...	12.825	75	103888	31.91	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.796	119	3284232	41.34	ppb	#	88
91) 1,2,4-Trichlorobenzene	13.787	180	570974	33.94	ppb	#	12
92) Hexachloro-1,3-Butadiene	13.970	225	325590	37.59	ppb	#	65
93) Naphthalene	14.075	128	813800	28.36	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.336	180	294915	29.90	ppb	#	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908314.D
Acq On : 15 Oct 2019 3:44 pm
Operator : LLJ
Sample : SEQ-CAL6
Misc : QBQV9101519A
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 16 11:53:42 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908315.D
Acq On : 15 Oct 2019 4:11 pm
Operator : LLJ
Sample : SEQ-CAL7
Misc : QBQV9101519A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 15 18:22:15 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.866	70	284654	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.923	117	989385	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.919	152	253413	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.552	65	291883	8.96	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 89.60%				
51) Toluene-d8 (SURR)	7.414	98	1386877	10.53	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 105.30%				
70) p-Bromofluorobenzene (...	10.216	95	491866	10.73	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 107.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.602	85	2304422	95.45	ppb	#	1
3) Chloromethane	1.780	50	1311391	101.64	ppb		93
4) Vinyl Chloride	1.893	62	2359600	83.88	ppb	#	98
5) Bromomethane	2.219	94	625578	119.28	ppb		97
6) Chloroethane	2.332	64	1206512	74.78	ppb	#	19
7) Trichlorofluoromethane	2.596	101	2783733	71.75	ppb	#	20
8) Ethanol	2.713	45	186834m	3898.08	ppb		
9) Freon-113	3.111	101	1885080	72.07	ppb	#	1
10) 1,1-Dichloroethylene	3.099	61	3338538	68.42	ppb	#	85
11) Acrolein	2.974	56	149658	73.19	ppb	#	1
12) Acetone	3.099	43	289286	71.13	ppb	#	1
13) Iodomethane	3.241	142	1358340	85.80	ppb	#	72
14) Methyl Acetate	3.416	43	578366	62.45	ppb	#	1
15) Carbon disulfide	3.332	76	5404361	69.30	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.625	59	110457	53.34	ppb	#	1
17) Methylene Chloride	3.558	49	2525328	71.85	ppb	#	80
18) Acrylonitrile	3.826	53	46748	51.43	ppb	#	1
19) trans-1,2-Dichloroethy...	3.840	61	3210762	70.73	ppb	#	85
20) tert-Butyl Methyl Ethe...	3.826	73	4676175	65.50	ppb	#	95
21) 1,1-Dichloroethane	4.238	63	3840390	66.05	ppb	#	99
22) Vinyl Acetate	4.224	43	1930469	62.99	ppb	#	1
23) Diisopropyl ether (DIPE)	4.279	45	6895551	74.23	ppb	#	53
24) Ethyl-tert-Butyl ether...	4.619	59	7207467	74.38	ppb	#	97
25) cis-1,2-Dichloroethylene	4.767	61	3818864	68.83	ppb	#	86
26) 2-Butanone	4.723	72	124574m	83.00	ppb		
27) 2,2-Dichloropropane	4.782	77	3529825	68.20	ppb	#	88
28) Tetrahydrofuran	5.014	42	232195	60.16	ppb	#	1
29) Bromochloromethane	4.988	49	1294619	69.84	ppb	#	33
30) Chloroform	5.078	83	4145525	70.21	ppb	#	85
31) 1,1,1-Trichloroethane	5.261	97	3890498	70.12	ppb	#	55
32) Cyclohexane	5.363	56	8917678	71.28	ppb	#	84
33) 1,1-Dichloropropylene	5.412	75	3221980	69.46	ppb	#	59
35) Carbon Tetrachloride	5.427	117	3104919	69.95	ppb	#	99
36) tert-Amyl alcohol (TAA)	5.549	59	777884	674.71	ppb	#	1
37) 1,2-Dichloroethane	5.621	62	2566927	63.47	ppb	#	100
38) Benzene	5.592	78	9280423	74.90	ppb	#	95
39) tert-Amyl methyl ether...	5.712	73	5515248	77.24	ppb	#	1
41) Trichloroethylene	6.223	95	2479672	76.31	ppb	#	73
42) Methyl Cyclohexane	6.484	83	3970835	80.67	ppb	#	51
43) Methyl Methacrylate	6.484	69	1624262	74.69	ppb	#	98
44) Dibromomethane	6.540	93	921242	71.49	ppb	#	49
45) Bromodichloromethane	6.702	83	2961692	75.86	ppb	#	97
46) 1,2-Dichloropropane	6.455	63	2305301	77.52	ppb	#	84
47) 1,4-Dioxane	6.519	88	75385	1548.13	ppb	#	86
49) cis-1,3-Dichloropropene	7.133	75	3468827	79.01	ppb	#	56
50) 4-Methyl-2-Pentanone	7.243	43	905039	69.98	ppb	#	54
52) Toluene	7.487	91	10204296	83.30	ppb		99

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908315.D
Acq On : 15 Oct 2019 4:11 pm
Operator : LLJ
Sample : SEQ-CAL7
Misc : QBQV9101519A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 15 18:22:15 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

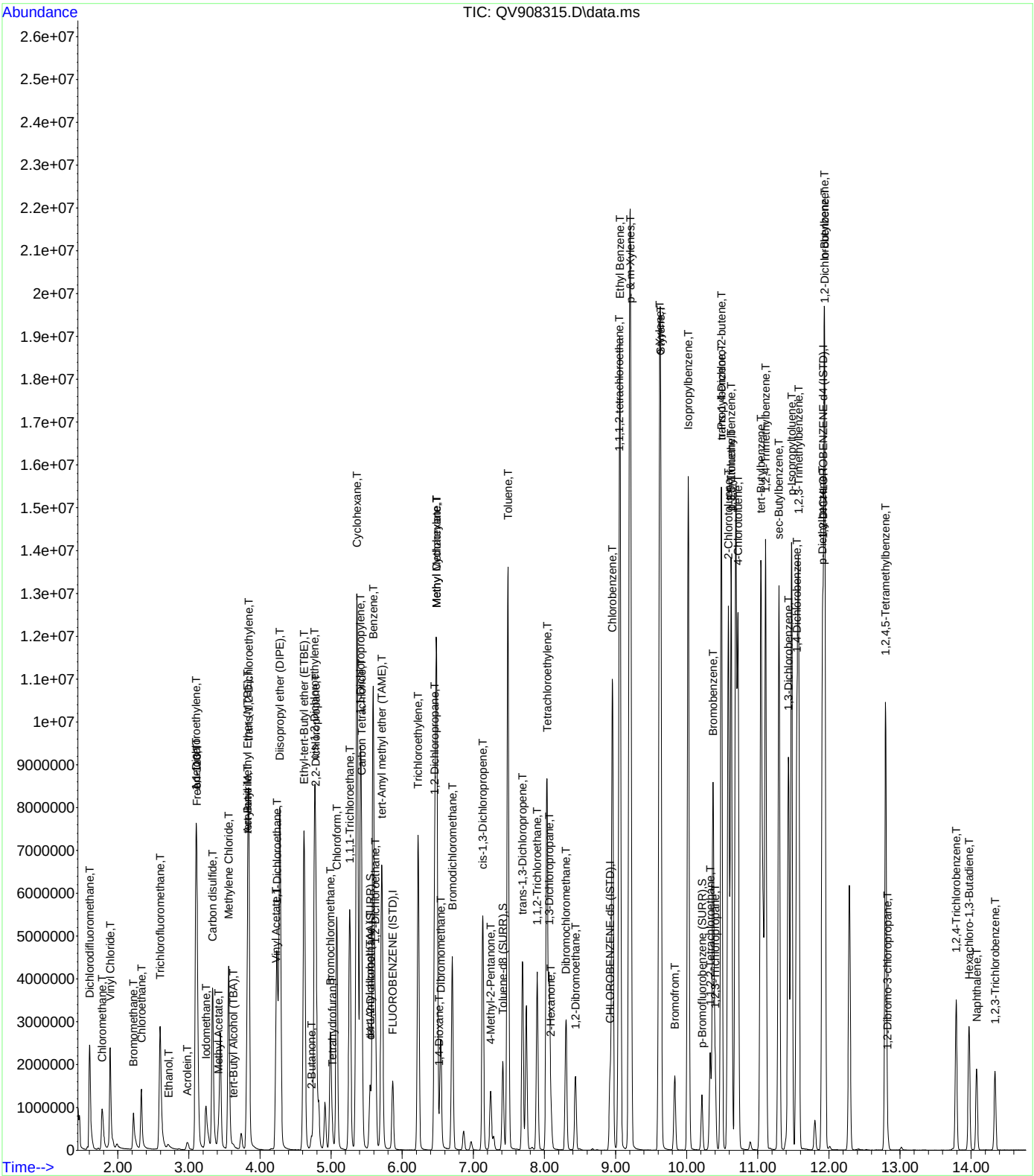
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.690	75	2661702	76.25	ppb	#	99
54) 1,1,2-Trichloroethane	7.897	97	1326245	72.03	ppb	#	1
55) 1,3-Dichloropropane	8.065	76	2341936	71.06	ppb	#	68
56) Tetrachloroethylene	8.036	166	2577680	73.76	ppb	#	100
57) 2-Hexanone	8.089	43	601648	68.75	ppb	#	1
58) Dibromochloromethane	8.301	129	1667146	75.80	ppb	#	84
59) 1,2-Dibromoethane	8.437	107	1202300	70.98	ppb		93
60) Chlorobenzene	8.955	112	6160637	77.23	ppb	#	86
61) 1,1,1,2-tetrachloroethane	9.050	131	2047667	75.21	ppb	#	48
62) Ethyl Benzene	9.062	91	11491375	93.47	ppb		95
63) p- & m-Xylenes	9.204	91	17963235	222.32	ppb		93
64) o-Xylene	9.617	91	9206486	80.13	ppb		96
65) Styrene	9.635	104	6657409	79.56	ppb	#	93
66) Bromofrom	9.832	173	812239	75.37	ppb	#	81
68) p-Ethyltoluene	10.625	105	9475161	90.09	ppb	#	97
69) Isopropylbenzene	10.021	105	11323607	106.85	ppb	#	91
71) 1,1,2,2-Tetrachloroethane	10.332	83	1213764	75.57	ppb	#	65
72) Bromobenzene	10.370	77	4130389	83.50	ppb	#	73
73) trans-1,4-Dichloro-2-b...	10.489	75	80299	80.01	ppb	#	1
74) 1,2,3-Trichloropropane	10.402	110	356319	74.35	ppb	#	1
75) n-Propylbenzene	10.489	91	13062862	125.02	ppb	#	89
76) 2-Chlorotoluene	10.588	91	8041991	86.46	ppb		97
77) 4-Chlorotoluene	10.721	91	8951381	87.30	ppb		95
78) 1,3,5-Trimethylbenzene	10.625	105	9475161	90.26	ppb	#	71
79) tert-Butylbenzene	11.044	119	8322479	85.23	ppb		97
80) 1,2,4-Trimethylbenzene	11.111	105	8741085	87.75	ppb		93
81) sec-Butylbenzene	11.297	105	10180988	91.73	ppb	#	91
82) 1,3-Dichlorobenzene	11.430	146	3911432	83.60	ppb		91
83) p-Isopropyltoluene	11.474	119	8828944	88.46	ppb		93
84) 1,4-Dichlorobenzene	11.550	146	3706320	81.35	ppb		90
85) 1,2,3-Trimethylbenzene	11.573	105	8130312	68.42	ppb	#	91
86) p-Diethylbenzene	11.910	105	4185926	85.30	ppb	#	53
87) 1,2-Dichlorobenzene	11.942	146	2947825	78.18	ppb	#	100
88) n-Butylbenzene	11.936	91	8335409m	79.80	ppb		
89) 1,2-Dibromo-3-chloropr...	12.822	75	196265	64.33	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.796	119	6206761	83.36	ppb	#	87
91) 1,2,4-Trichlorobenzene	13.790	180	1104103	70.03	ppb	#	11
92) Hexachloro-1,3-Butadiene	13.970	225	633486	78.04	ppb	#	64
93) Naphthalene	14.078	128	1571582	58.44	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.336	180	576966	62.41	ppb	#	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908315.D
Acq On : 15 Oct 2019 4:11 pm
Operator : LLJ
Sample : SEQ-CAL7
Misc : QBQV9101519A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 15 18:22:15 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908316.D
Acq On : 15 Oct 2019 4:38 pm
Operator : LLJ
Sample : SEQ-CAL8
Misc : QBQV9101519A
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 16 11:51:37 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.865	70	291212	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	8.923	117	986449	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.919	152	248760	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.549	65	295365	8.86	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 88.60%				
51) Toluene-d8 (SURR)	7.414	98	1392873	10.60	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 106.00%				
70) p-Bromofluorobenzene (...	10.216	95	483130	10.73	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 107.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.602	85	3336110	135.07	ppb	#	1
3) Chloromethane	1.777	50	2307680	142.84	ppb		93
4) Vinyl Chloride	1.890	62	3574145	124.19	ppb	#	98
5) Bromomethane	2.218	94	1115134	157.91	ppb		99
6) Chloroethane	2.329	64	1808271	109.55	ppb	#	19
7) Trichlorofluoromethane	2.593	101	4141139	104.33	ppb	#	20
8) Ethanol	2.707	45	244926m	4995.02	ppb		
9) Freon-113	3.113	101	2704637	101.08	ppb	#	1
10) 1,1-Dichloroethylene	3.099	61	4887019	97.90	ppb	#	86
11) Acrolein	2.971	56	212342	101.51	ppb	#	1
12) Acetone	3.093	43	408323	92.61	ppb	#	1
13) Iodomethane	3.238	142	2114395	118.80	ppb	#	72
14) Methyl Acetate	3.416	43	867499	91.55	ppb	#	1
15) Carbon disulfide	3.331	76	8068962	101.13	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.622	59	164091	79.35	ppb	#	1
17) Methylene Chloride	3.558	49	3732613	103.81	ppb	#	79
18) Acrylonitrile	3.823	53	71603	81.62	ppb	#	1
19) trans-1,2-Dichloroethy...	3.840	61	4652046	100.17	ppb	#	84
20) tert-Butyl Methyl Ethe...	3.825	73	7000016	95.85	ppb	#	95
21) 1,1-Dichloroethane	4.241	63	5259809	88.43	ppb	#	99
22) Vinyl Acetate	4.224	43	2969943	94.72	ppb	#	1
23) Diisopropyl ether (DIPE)	4.279	45	10055795	105.81	ppb	#	53
24) Ethyl-tert-Butyl ether...	4.619	59	10613073	111.80	ppb	#	98
25) cis-1,2-Dichloroethylene	4.767	61	5520774	97.27	ppb	#	86
26) 2-Butanone	4.726	72	181056m	120.96	ppb		
27) 2,2-Dichloropropane	4.784	77	5026870	94.94	ppb	#	87
28) Tetrahydrofuran	5.014	42	350348	88.73	ppb	#	1
29) Bromochloromethane	4.991	49	1889692	99.65	ppb	#	51
30) Chloroform	5.078	83	6011256	99.51	ppb	#	95
31) 1,1,1-Trichloroethane	5.261	97	5765126	101.57	ppb	#	26
32) Cyclohexane	5.366	56	12624123	98.64	ppb	#	84
33) 1,1-Dichloropropylene	5.415	75	4690684	98.84	ppb	#	59
35) Carbon Tetrachloride	5.430	117	4493598	98.95	ppb	#	100
36) tert-Amyl alcohol (TAA)	5.549	59	1095540	928.84	ppb	#	1
37) 1,2-Dichloroethane	5.624	62	3812878	92.15	ppb	#	98
38) Benzene	5.592	78	13471171	106.27	ppb	#	96
39) tert-Amyl methyl ether...	5.711	73	8175488	113.67	ppb	#	1
41) Trichloroethylene	6.226	95	3648020	112.60	ppb	#	73
42) Methyl Cyclohexane	6.481	83	5648049	115.08	ppb	#	51
43) Methyl Methacrylate	6.487	69	2359659	108.83	ppb	#	98
44) Dibromomethane	6.543	93	1376299	107.12	ppb	#	89
45) Bromodichloromethane	6.702	83	4391615	112.82	ppb	#	96
46) 1,2-Dichloropropane	6.458	63	3337541	112.56	ppb	#	92
47) 1,4-Dioxane	6.528	88	104684m	2209.32	ppb		
49) cis-1,3-Dichloropropene	7.132	75	5032804	114.98	ppb	#	56
50) 4-Methyl-2-Pentanone	7.243	43	1354493	105.04	ppb	#	55
52) Toluene	7.487	91	14540819	119.05	ppb		99

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908316.D
Acq On : 15 Oct 2019 4:38 pm
Operator : LLJ
Sample : SEQ-CAL8
Misc : QBQV9101519A
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 16 11:51:37 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

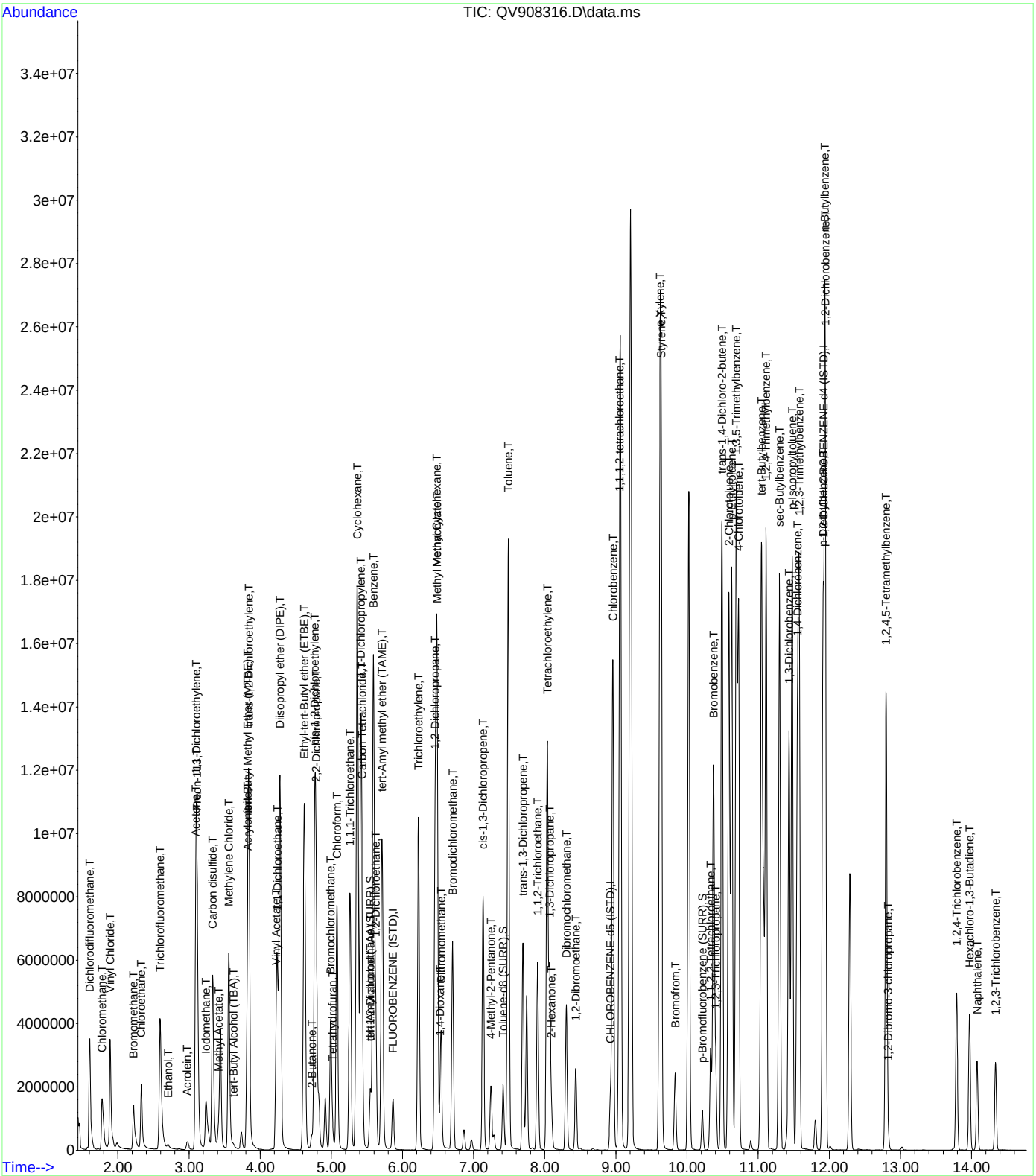
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.693	75	3961114	113.81	ppb	#	98
54) 1,1,2-Trichloroethane	7.900	97	1955300	106.51	ppb	#	1
55) 1,3-Dichloropropane	8.068	76	3431994	104.45	ppb	#	96
56) Tetrachloroethylene	8.036	166	3765321	108.07	ppb	#	100
57) 2-Hexanone	8.091	43	882132	101.11	ppb	#	1
58) Dibromochloromethane	8.304	129	2444874	111.50	ppb	#	84
59) 1,2-Dibromoethane	8.437	107	1779112	105.34	ppb		93
60) Chlorobenzene	8.960	112	8915476	112.10	ppb	#	86
61) 1,1,1,2-tetrachloroethane	9.050	131	2924668	107.74	ppb	#	48
62) Ethyl Benzene	9.062	91	15654000	Below Cal			97
63) p- & m-Xylenes	9.196	91	22667340m	Below Cal			
64) o-Xylene	9.620	91	12876222	112.41	ppb		96
65) Styrene	9.637	104	9278694	111.22	ppb	#	93
66) Bromofrom	9.835	173	1179332	109.76	ppb	#	95
68) p-Ethyltoluene	10.628	105	13014867	126.06	ppb	#	97
69) Isopropylbenzene	10.024	105	15478869	Below Cal		#	90
71) 1,1,2,2-Tetrachloroethane	10.332	83	1747617	110.84	ppb	#	65
72) Bromobenzene	10.373	77	5858128	120.64	ppb	#	73
73) trans-1,4-Dichloro-2-b...	10.492	75	111107	112.78	ppb	#	1
74) 1,2,3-Trichloropropane	10.405	110	508158	108.02	ppb	#	1
75) n-Propylbenzene	10.486	91	16835770	Below Cal		#	88
76) 2-Chlorotoluene	10.591	91	11293852	123.69	ppb		97
77) 4-Chlorotoluene	10.724	91	12537141	124.56	ppb		95
78) 1,3,5-Trimethylbenzene	10.689	105	12445906m	120.78	ppb		
79) tert-Butylbenzene	11.047	119	11622108	121.25	ppb		97
80) 1,2,4-Trimethylbenzene	11.111	105	12151676	124.27	ppb		93
81) sec-Butylbenzene	11.300	105	13813177	126.78	ppb	#	91
82) 1,3-Dichlorobenzene	11.433	146	5527630	120.36	ppb		91
83) p-Isopropyltoluene	11.477	119	12183825	124.36	ppb		93
84) 1,4-Dichlorobenzene	11.552	146	5247925	117.34	ppb		90
85) 1,2,3-Trimethylbenzene	11.576	105	11243448	96.39	ppb	#	91
86) p-Diethylbenzene	11.913	105	5845051	121.34	ppb	#	53
87) 1,2-Dichlorobenzene	11.945	146	4189352	113.19	ppb	#	100
88) n-Butylbenzene	11.939	91	11529035m	112.44	ppb		
89) 1,2-Dibromo-3-chloropr...	12.825	75	284034	94.83	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.796	119	8722998	119.34	ppb	#	87
91) 1,2,4-Trichlorobenzene	13.790	180	1613048	104.22	ppb	#	12
92) Hexachloro-1,3-Butadiene	13.970	225	936867	117.57	ppb	#	65
93) Naphthalene	14.078	128	2336243	88.50	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.336	180	884463	97.46	ppb	#	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908316.D
Acq On : 15 Oct 2019 4:38 pm
Operator : LLJ
Sample : SEQ-CAL8
Misc : QBQV9101519A
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 16 11:51:37 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908317.D
Acq On : 15 Oct 2019 5:05 pm
Operator : LLJ
Sample : SEQ-CAL9
Misc : QBQV9101519A
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 16 11:52:38 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.866	70	277135	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	8.926	117	937900	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.922	152	226804	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.552	65	279108	8.80	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 88.00%				
51) Toluene-d8 (SURR)	7.414	98	1327134	10.63	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 106.30%				
70) p-Bromofluorobenzene (...	10.216	95	444265	10.82	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 108.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.603	85	4582383	194.95	ppb	#	1
3) Chloromethane	1.777	50	3521918	189.65	ppb		94
4) Vinyl Chloride	1.893	62	4815071	175.81	ppb	#	100
5) Bromomethane	2.221	94	1624457	195.71	ppb		96
6) Chloroethane	2.329	64	2494243	158.79	ppb	#	19
7) Trichlorofluoromethane	2.593	101	5526075	146.29	ppb	#	20
8) Ethanol	2.713	45	395313m	8471.53	ppb		
9) Freon-113	3.114	101	3616652	142.03	ppb	#	1
10) 1,1-Dichloroethylene	3.099	61	6496172	136.75	ppb	#	86
11) Acrolein	2.971	56	281427	141.37	ppb	#	1
12) Acetone	3.093	43	602186	130.55	ppb	#	1
13) Iodomethane	3.241	142	2963770	158.05	ppb	#	72
14) Methyl Acetate	3.416	43	1168437	129.58	ppb	#	1
15) Carbon disulfide	3.334	76	10981549	144.63	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.622	59	288866	158.55	ppb	#	1
17) Methylene Chloride	3.558	49	4905521	143.36	ppb	#	79
18) Acrylonitrile	3.826	53	87943	112.14	ppb	#	1
19) trans-1,2-Dichloroethy...	3.843	61	6145484	139.05	ppb	#	89
20) tert-Butyl Methyl Ethe...	3.826	73	9148623	131.63	ppb	#	95
21) 1,1-Dichloroethane	4.241	63	6783501	119.84	ppb	#	99
22) Vinyl Acetate	4.227	43	3870037	129.69	ppb	#	1
23) Diisopropyl ether (DIPE)	4.282	45	12965749	143.36	ppb	#	52
24) Ethyl-tert-Butyl ether...	4.619	59	13829362	162.94	ppb	#	98
25) cis-1,2-Dichloroethylene	4.767	61	7258306	134.38	ppb	#	80
26) 2-Butanone	4.729	72	248678m	182.13	ppb		
27) 2,2-Dichloropropane	4.785	77	6530586	129.60	ppb	#	83
28) Tetrahydrofuran	5.014	42	470990	125.35	ppb	#	1
29) Bromochloromethane	4.991	49	2469560	136.84	ppb	#	51
30) Chloroform	5.081	83	7369178	128.19	ppb	#	85
31) 1,1,1-Trichloroethane	5.267	97	7715192	142.83	ppb	#	74
32) Cyclohexane	5.369	56	16421067	134.82	ppb	#	84
33) 1,1-Dichloropropylene	5.415	75	6231783	137.98	ppb	#	57
35) Carbon Tetrachloride	5.430	117	5890812	136.31	ppb	#	100
36) tert-Amyl alcohol (TAA)	5.552	59	1632390	1454.30	ppb	#	1
37) 1,2-Dichloroethane	5.624	62	5139994	130.53	ppb	#	100
38) Benzene	5.590	78	17231330	142.84	ppb	#	96
39) tert-Amyl methyl ether...	5.712	73	10862989	162.09	ppb	#	1
41) Trichloroethylene	6.226	95	4888367	158.69	ppb	#	74
42) Methyl Cyclohexane	6.485	83	7471084	160.11	ppb	#	52
43) Methyl Methacrylate	6.485	69	3102430	150.49	ppb	#	98
44) Dibromomethane	6.543	93	1761454	144.19	ppb	#	89
45) Bromodichloromethane	6.705	83	5923349	160.05	ppb	#	96
46) 1,2-Dichloropropane	6.461	63	4375523	155.21	ppb	#	91
47) 1,4-Dioxane	6.528	88	165078	3912.46	ppb	#	76
49) cis-1,3-Dichloropropene	7.136	75	6677550	160.45	ppb	#	56
50) 4-Methyl-2-Pentanone	7.246	43	1815833	148.11	ppb	#	59
52) Toluene	7.481	91	17781858m	153.13	ppb		

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908317.D
Acq On : 15 Oct 2019 5:05 pm
Operator : LLJ
Sample : SEQ-CAL9
Misc : QBQV9101519A
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 16 11:52:38 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

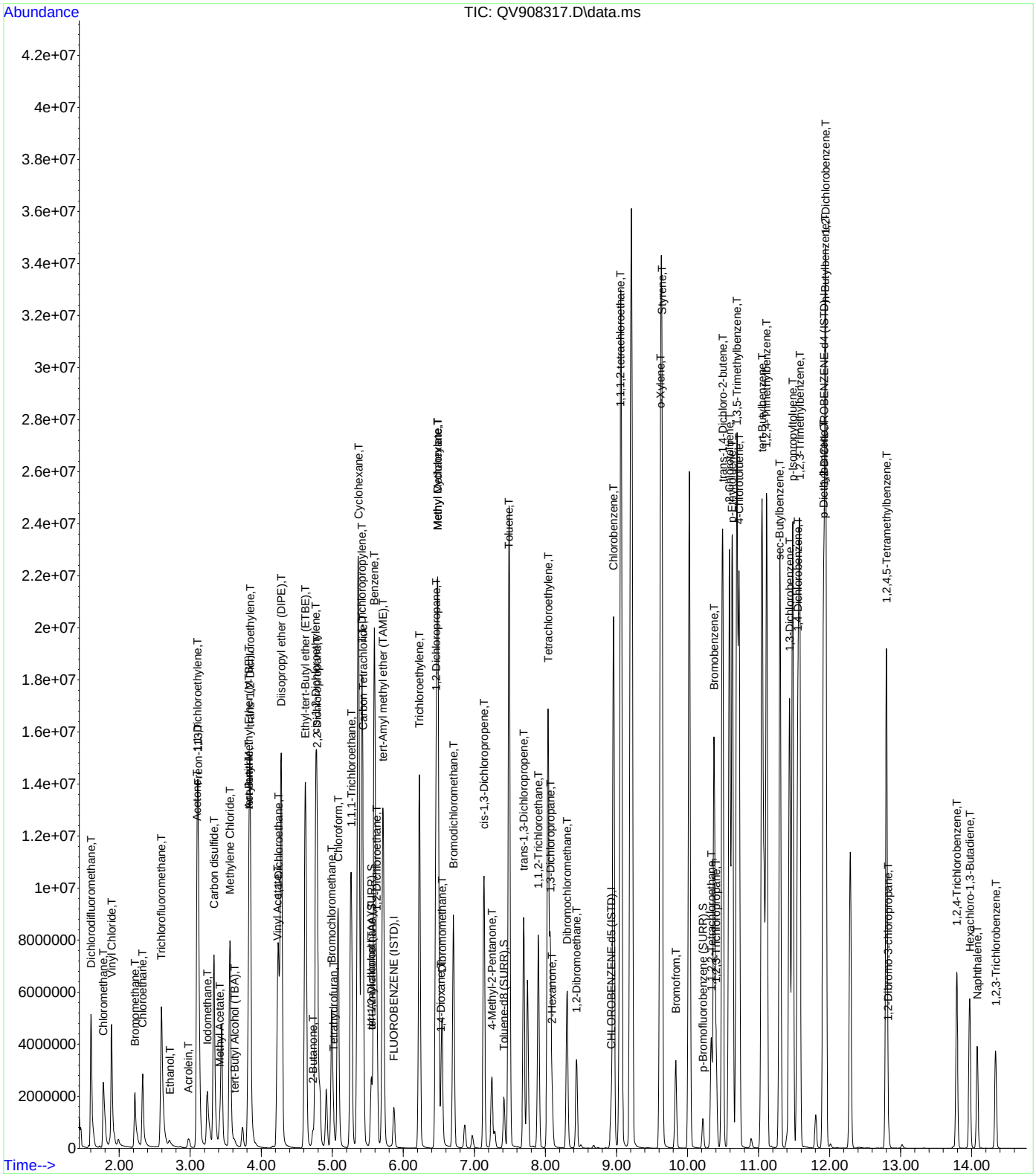
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.693	75	5285346	159.72	ppb	#	98
54) 1,1,2-Trichloroethane	7.900	97	2621323	150.18	ppb	#	1
55) 1,3-Dichloropropane	8.068	76	4595212	147.09	ppb	#	68
56) Tetrachloroethylene	8.036	166	5092949	153.74	ppb	#	100
57) 2-Hexanone	8.092	43	1182435	142.54	ppb	#	1
58) Dibromochloromethane	8.307	129	3288742	157.75	ppb	#	84
59) 1,2-Dibromoethane	8.437	107	2381534	148.31	ppb		93
60) Chlorobenzene	8.958	112	11887330	157.20	ppb	#	86
61) 1,1,1,2-tetrachloroethane	9.053	131	3895488	150.94	ppb	#	48
62) Ethyl Benzene	9.059	91	18109951m	Below Cal			
63) p- & m-Xylenes	9.193	91	25813274m	Below Cal			
64) o-Xylene	9.617	91	16602026	152.43	ppb		96
65) Styrene	9.640	104	12038068	151.77	ppb	#	92
66) Bromofrom	9.835	173	1584258	155.08	ppb	#	81
68) p-Ethyltoluene	10.626	105	16313658	173.31	ppb	#	97
69) Isopropylbenzene	10.018	105	18182238m	Below Cal			
71) 1,1,2,2-Tetrachloroethane	10.335	83	2281096	158.69	ppb	#	65
72) Bromobenzene	10.373	77	7579172	171.20	ppb	#	74
73) trans-1,4-Dichloro-2-b...	10.495	75	147254	163.94	ppb	#	1
74) 1,2,3-Trichloropropane	10.402	110	663501	154.69	ppb	#	1
75) n-Propylbenzene	10.483	91	19252688m	Below Cal			
76) 2-Chlorotoluene	10.591	91	14502368	174.20	ppb		98
77) 4-Chlorotoluene	10.724	91	16178697	176.30	ppb		95
78) 1,3,5-Trimethylbenzene	10.692	105	15442138m	164.36	ppb		
79) tert-Butylbenzene	11.050	119	15122631	173.04	ppb		97
80) 1,2,4-Trimethylbenzene	11.111	105	15381579	172.53	ppb		95
81) sec-Butylbenzene	11.297	105	17138681m	172.53	ppb		
82) 1,3-Dichlorobenzene	11.436	146	7255038	173.26	ppb		91
83) p-Isopropyltoluene	11.477	119	15687499	175.63	ppb		93
84) 1,4-Dichlorobenzene	11.553	146	6925453	169.84	ppb		90
85) 1,2,3-Trimethylbenzene	11.579	105	14397463	135.37	ppb	#	91
86) p-Diethylbenzene	11.916	105	7659676	174.40	ppb	#	54
87) 1,2-Dichlorobenzene	11.945	146	5432796	161.00	ppb	#	100
88) n-Butylbenzene	11.939	91	15316208m	163.84	ppb		
89) 1,2-Dibromo-3-chloropr...	12.822	75	375960	137.68	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.802	119	11511090	172.74	ppb	#	88
91) 1,2,4-Trichlorobenzene	13.790	180	2195640	155.60	ppb	#	11
92) Hexachloro-1,3-Butadiene	13.973	225	1273033	175.22	ppb	#	65
93) Naphthalene	14.078	128	3219848	133.78	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.339	180	1202154	145.29	ppb	#	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908317.D
Acq On : 15 Oct 2019 5:05 pm
Operator : LLJ
Sample : SEQ-CAL9
Misc : QBQV9101519A
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 16 11:52:38 2019
Quant Method : C:\msdchem\1\methods\VQ9LO017.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 09 09:26:59 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19J1295

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Calibration: YJ90014 **Laboratory ID:** Y9J1113-SCV1

Sequence: Y9J1113 **Standard ID:** Y19I365

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	9.72	-2.8	30.00
1,1,1-Trichloroethane	10.0	9.90	-1.0	30.00
1,1,2,2-Tetrachloroethane	10.0	9.32	-6.8	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.6	5.8	30.00
1,1,2-Trichloroethane	10.0	9.14	-8.6	30.00
1,1-Dichloroethane	10.0	9.86	-1.4	30.00
1,1-Dichloroethylene	10.0	10.3	2.9	30.00
1,2,3-Trichlorobenzene	10.0	13.8	37.8 *	30.00
1,2,3-Trichloropropane	10.0	9.32	-6.8	30.00
1,2,4-Trichlorobenzene	10.0	11.3	12.8	30.00
1,2,4-Trimethylbenzene	10.0	9.63	-3.7	30.00
1,2-Dibromo-3-chloropropane	10.0	9.73	-2.7	30.00
1,2-Dibromoethane	10.0	9.47	-5.3	30.00
1,2-Dichlorobenzene	10.0	9.62	-3.8	30.00
1,2-Dichloroethane	10.0	9.45	-5.5	30.00
1,2-Dichloropropane	10.0	9.04	-9.6	30.00
1,3,5-Trimethylbenzene	10.0	9.95	-0.5	30.00
1,3-Dichlorobenzene	10.0	9.33	-6.7	30.00
1,4-Dichlorobenzene	10.0	9.27	-7.3	30.00
1,4-Dioxane	210	198	-5.7	30.00
2-Butanone	10.0	8.72	-12.8	30.00
2-Hexanone	10.0	9.37	-6.3	30.00
4-Methyl-2-pentanone	10.0	6.74	-32.6 *	30.00
Acetone	10.0	8.45	-15.5	30.00
Acrolein	10.0	9.58	-4.2	30.00
Acrylonitrile	10.0	9.58	-4.2	30.00
Benzene	10.0	10.6	5.9	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19J1295

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Calibration: YJ90014 **Laboratory ID:** Y9J1113-SCV1

Sequence: Y9J1113 **Standard ID:** Y19I365

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
Bromochloromethane	10.0	9.44	-5.6	30.00
Bromodichloromethane	10.0	9.25	-7.5	30.00
Bromoform	10.0	9.24	-7.6	30.00
Bromomethane	10.0	14.4	43.5 *	30.00
Carbon disulfide	10.0	10.4	3.6	30.00
Carbon tetrachloride	10.0	9.98	-0.2	30.00
Chlorobenzene	10.0	9.77	-2.3	30.00
Chloroethane	10.0	12.3	22.8	30.00
Chloroform	10.0	9.54	-4.6	30.00
Chloromethane	10.0	12.8	27.6	30.00
cis-1,2-Dichloroethylene	10.0	9.70	-3.0	30.00
cis-1,3-Dichloropropylene	10.0	9.07	-9.3	30.00
Cyclohexane	10.0	12.6	26.4	30.00
Dibromochloromethane	10.0	9.37	-6.3	30.00
Dibromomethane	10.0	9.25	-7.5	30.00
Dichlorodifluoromethane	10.0	15.6	55.5 *	30.00
Ethyl Benzene	10.0	10.6	6.5	30.00
Hexachlorobutadiene	10.0	13.0	30.4 *	30.00
Isopropylbenzene	10.0	10.0	0.2	30.00
Methyl acetate	10.0	9.47	-5.3	30.00
Methyl tert-butyl ether (MTBE)	10.0	10.4	3.9	30.00
Methylcyclohexane	10.0	9.96	-0.4	30.00
Methylene chloride	10.0	10.7	7.1	30.00
n-Butylbenzene	10.0	10.4	4.3	30.00
n-Propylbenzene	10.0	10.3	2.8	30.00
o-Xylene	10.0	10.1	0.6	30.00
p- & m- Xylenes	20.0	18.2	-8.8	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19J1295

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Calibration: YJ90014 **Laboratory ID:** Y9J1113-SCV1

Sequence: Y9J1113 **Standard ID:** Y19I365

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	10.0	10.3	3.4	30.00
sec-Butylbenzene	10.0	10.7	7.3	30.00
Styrene	10.0	9.78	-2.2	30.00
tert-Butyl alcohol (TBA)	50.0	50.2	0.3	30.00
tert-Butylbenzene	10.0	8.33	-16.7	30.00
Tetrachloroethylene	10.0	9.10	-9.0	30.00
Toluene	10.0	10.4	3.5	30.00
trans-1,2-Dichloroethylene	10.0	10.3	2.7	30.00
trans-1,3-Dichloropropylene	10.0	9.09	-9.1	30.00
trans-1,4-dichloro-2-butene	10.0	8.80	-12.0	30.00
Trichloroethylene	10.0	9.68	-3.2	30.00
Trichlorofluoromethane	10.0	12.7	26.9	30.00
Vinyl Chloride	10.0	11.7	16.8	30.00

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616885.D
Acq On : 8 Oct 2019 9:10 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-SCV1
Misc : QBQV6100819A ICV AQU
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 08 21:27:10 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:41:05 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.633	70	345757	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.666	117	1236656	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.623	152	485262	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.324	65	466829	9.75	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 97.50%				
53) Toluene-d8 (SURR)	7.172	98	1598569	9.83	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 98.30%				
73) p-Bromofluorobenzene (...	9.946	95	572959	9.78	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 97.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.351	85	495939m	15.55	ppb		
3) Chloromethane	1.549	50	601020	12.76	ppb	#	44
4) Vinyl Chloride	1.621	62	548491	11.68	ppb	#	47
5) Bromomethane	1.933	94	366334m	14.35	ppb		
6) Chloroethane	2.047	64	359148	12.28	ppb		90
7) Trichlorofluoromethane	2.306	101	781169	12.69	ppb		98
9) Freon-113	2.843	101	421177	10.58	ppb		99
10) 1,1-Dichloroethylene	2.820	61	728155	10.29	ppb		97
11) Acrolein	2.709	56	30155	9.58	ppb	#	80
12) Acetone	2.843	43	120323	8.45	ppb	#	96
13) Iodomethane	2.965	142	425952	9.03	ppb		99
14) Allyl Chloride	3.185	76	232928	9.77	ppb	#	100
15) Methyl Acetate	3.174	43	275115	9.47	ppb		99
16) Carbon disulfide	3.032	76	1141181	10.36	ppb		100
17) tert-Butyl Alcohol (TBA)	3.419	59	215194	50.15	ppb	#	1
18) Methylene Chloride	3.310	49	694602	10.71	ppb		91
19) Acrylonitrile	3.510	53	114692	9.58	ppb	#	42
20) trans-1,2-Dichloroethy...	3.586	61	695162	10.27	ppb		99
21) tert-Butyl Methyl Ethe...	3.577	73	1243523	10.39	ppb	#	88
22) 1,1-Dichloroethane	4.000	63	876358	9.86	ppb	#	97
23) Vinyl Acetate	4.050	43	811927	10.51	ppb	#	100
24) Diisopropyl ether (DIPE)	4.047	45	1866473	10.83	ppb	#	99
25) Ethyl-tert-Butyl ether...	4.395	59	1626367	10.83	ppb	#	85
26) cis-1,2-Dichloroethylene	4.537	61	780236	9.70	ppb		98
27) 2-Butanone	4.515	72	43177	8.72	ppb	#	95
28) 2,2-Dichloropropane	4.543	77	708572	9.53	ppb		93
29) Tetrahydrofuran	4.774	42	114708	9.23	ppb	#	48
30) Bromochloromethane	4.760	49	392923	9.44	ppb		93
31) Chloroform	4.865	83	790687	9.54	ppb	#	84
32) 1,1,1-Trichloroethane	5.018	97	765261	9.90	ppb		97
33) Cyclohexane	5.093	56	935075	12.64	ppb		94
34) 1,1-Dichloropropylene	5.169	75	665779	10.01	ppb		91
36) Carbon Tetrachloride	5.171	117	709899	9.98	ppb	#	55
37) tert-Amyl alcohol (TAA)	5.366	59	360551	101.30	ppb	#	82
38) 1,2-Dichloroethane	5.397	62	568984	9.45	ppb		99
39) Benzene	5.347	78	1830024	10.59	ppb	#	67
40) tert-Amyl methyl ether...	5.483	73	1313734	10.87	ppb	#	100
42) Trichloroethylene	5.987	95	499245	9.68	ppb		95
43) Methyl Cyclohexane	6.220	83	658724	9.96	ppb	#	84
44) Methyl Methacrylate	6.279	69	257979	9.46	ppb		91
45) Dibromomethane	6.309	93	248910	9.25	ppb		96
46) Bromodichloromethane	6.485	83	597116	9.25	ppb		96
47) 1,2-Dichloropropane	6.226	63	486095	9.04	ppb	#	83
48) 1,4-Dioxane	6.290	88	57314	198.10	ppb	#	80
49) 2-nitropropane	6.663	43	119302	8.90	ppb	#	100
50) 2-Chloroethyl vinyl ether	6.757	63	205875	12.00	ppb	#	92
51) cis-1,3-Dichloropropene	6.910	75	705468	9.07	ppb		92
52) 4-Methyl-2-Pentanone	7.038	43	405508m	6.74	ppb		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616885.D
Acq On : 8 Oct 2019 9:10 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-SCV1
Misc : QBQV6100819A ICV AQU
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 08 21:27:10 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:41:05 2019
Response via : Initial Calibration

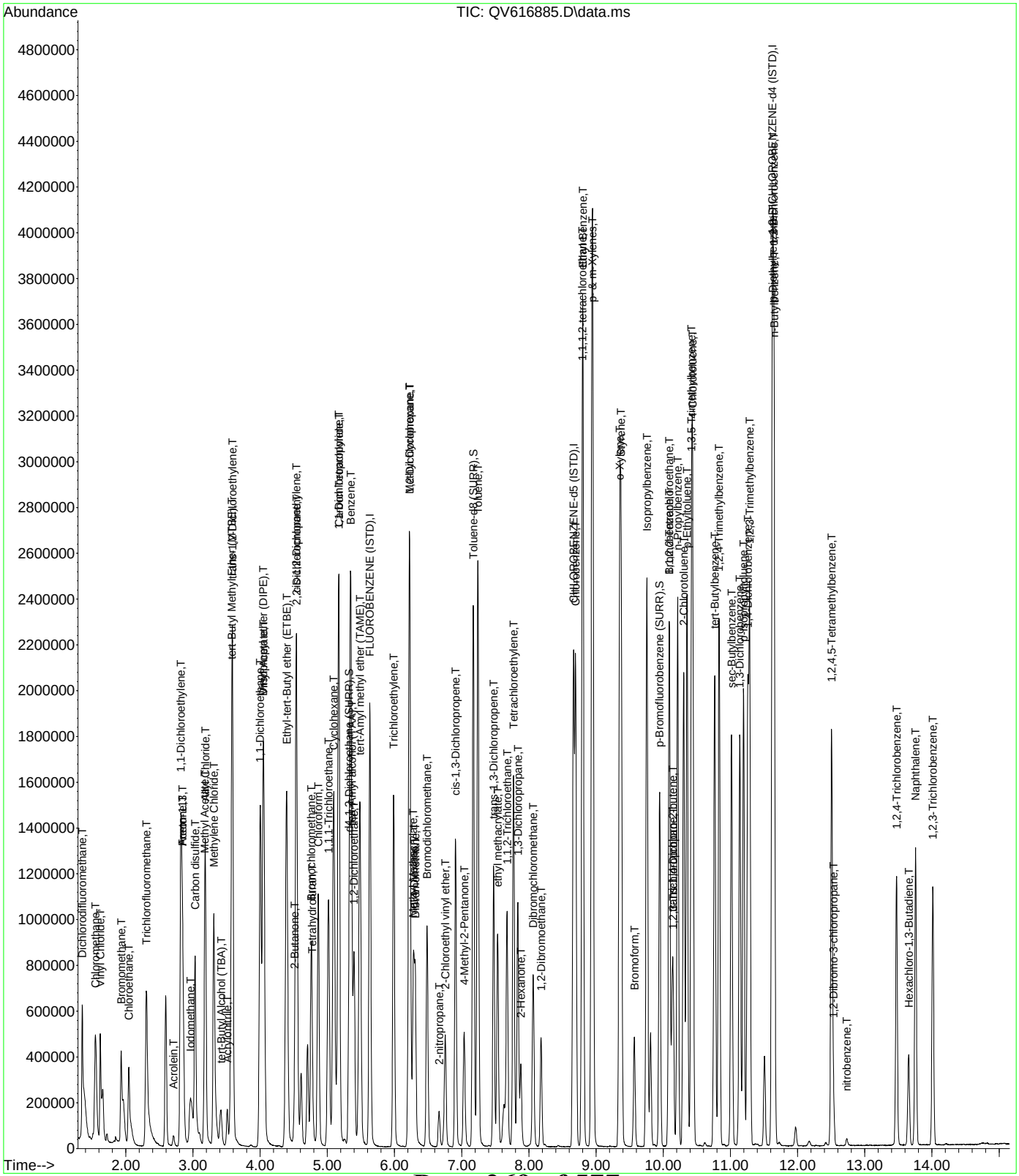
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Toluene	7.241	91	1884413	10.35	ppb		99
55) trans-1,3-Dichloropropene	7.475	75	612576	9.09	ppb		99
56) ethyl methacrylate	7.536	69	471184	8.89	ppb	#	100
57) 1,1,2-Trichloroethane	7.675	97	331869	9.14	ppb		95
58) 1,3-Dichloropropane	7.837	76	577620	9.48	ppb	#	62
59) Tetrachloroethylene	7.773	166	503947	9.10	ppb	#	100
60) 2-Hexanone	7.881	43	274106	9.37	ppb	#	29
61) Dibromochloromethane	8.065	129	421866	9.37	ppb		97
62) 1,2-Dibromoethane	8.182	107	336028	9.47	ppb		95
63) Chlorobenzene	8.694	112	1164315	9.77	ppb		94
64) 1,1,1,2-tetrachloroethane	8.794	131	447930	9.72	ppb		97
65) Ethyl Benzene	8.805	91	2025804	10.65	ppb		99
66) p- & m-Xylenes	8.947	91	3108301	18.25	ppb		97
67) o-Xylene	9.350	91	1563179	10.06	ppb		99
68) Styrene	9.373	104	1223252	9.78	ppb		97
69) Bromoform	9.570	173	237026	9.24	ppb	#	79
71) p-Ethyltoluene	10.355	105	1745772	11.42	ppb	#	68
72) Isopropylbenzene	9.757	105	1859510	10.02	ppb		98
74) 1,1,2,2-Tetrachloroethane	10.090	83	368522	9.32	ppb	#	69
75) Bromobenzene	10.090	77	734032	9.19	ppb		92
76) trans-1,4-Dichloro-2-b...	10.143	75	396746	8.80	ppb	#	58
77) 1,2,3-Trichloropropane	10.149	110	109725	9.32	ppb		65
78) n-Propylbenzene	10.216	91	2048028	10.28	ppb		100
79) 2-Chlorotoluene	10.305	91	1267636	9.36	ppb		98
80) 4-Chlorotoluene	10.438	91	1454679	9.49	ppb		98
81) 1,3,5-Trimethylbenzene	10.421	105	1433615	9.95	ppb	#	65
82) tert-Butylbenzene	10.766	119	1172522	8.33	ppb		97
83) 1,2,4-Trimethylbenzene	10.830	105	1419301	9.63	ppb		98
84) sec-Butylbenzene	11.017	105	1468616	10.73	ppb		99
85) 1,3-Dichlorobenzene	11.139	146	824745	9.33	ppb		99
86) p-Isopropyltoluene	11.195	119	1324072	10.34	ppb		98
87) 1,4-Dichlorobenzene	11.259	146	832869	9.27	ppb		98
88) 1,2,3-Trimethylbenzene	11.287	105	1456341m	7.82	ppb		
89) p-Diethylbenzene	11.629	105	670646	11.60	ppb	#	82
90) 1,2-Dichlorobenzene	11.646	146	774313	9.62	ppb	#	87
91) n-Butylbenzene	11.651	91	1193295	10.43	ppb	#	79
93) 1,2-Dibromo-3-chloropr...	12.533	75	68250	9.73	ppb		87
94) 1,2,4,5-Tetramethylben...	12.505	119	1087470	10.36	ppb		99
95) nitrobenzene	12.731	77	14690	8.87	ppb	#	100
96) 1,2,4-Trichlorobenzene	13.474	180	400021	11.28	ppb		97
97) Hexachloro-1,3-Butadiene	13.654	225	94599	13.04	ppb		98
98) Naphthalene	13.755	128	1125253	12.80	ppb		99
99) 1,2,3-Trichlorobenzene	14.013	180	386404	13.78	ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616885.D
Acq On : 8 Oct 2019 9:10 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-SCV1
Misc : QBQV6100819A ICV AQU
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 08 21:27:10 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:41:05 2019
Response via : Initial Calibration



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19J1295

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Calibration: YJ90016 **Laboratory ID:** Y9J1617-SCV1

Sequence: Y9J1617 **Standard ID:** Y19I365

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	10.0	0.5	30.00
1,1,1-Trichloroethane	10.0	9.54	-4.6	30.00
1,1,2,2-Tetrachloroethane	10.0	10.3	3.4	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.4	3.8	30.00
1,1,2-Trichloroethane	10.0	9.77	-2.3	30.00
1,1-Dichloroethane	10.0	10.3	2.7	30.00
1,1-Dichloroethylene	10.0	9.28	-7.2	30.00
1,2,3-Trichlorobenzene	10.0	10.8	7.8	30.00
1,2,3-Trichloropropane	10.0	9.83	-1.7	30.00
1,2,4-Trichlorobenzene	10.0	10.3	3.0	30.00
1,2,4-Trimethylbenzene	10.0	9.98	-0.2	30.00
1,2-Dibromo-3-chloropropane	10.0	10.2	1.5	30.00
1,2-Dibromoethane	10.0	10.1	1.0	30.00
1,2-Dichlorobenzene	10.0	10.1	0.8	30.00
1,2-Dichloroethane	10.0	10.1	0.7	30.00
1,2-Dichloropropane	10.0	9.65	-3.5	30.00
1,3,5-Trimethylbenzene	10.0	9.79	-2.1	30.00
1,3-Dichlorobenzene	10.0	9.73	-2.7	30.00
1,4-Dichlorobenzene	10.0	9.81	-1.9	30.00
1,4-Dioxane	210	179	-14.5	30.00
2-Butanone	10.0	9.04	-9.6	30.00
2-Hexanone	10.0	9.03	-9.7	30.00
4-Methyl-2-pentanone	10.0	9.38	-6.2	30.00
Acetone	10.0	8.01	-19.9	30.00
Acrolein	10.0	5.36	-46.4 *	30.00
Acrylonitrile	10.0	11.9	18.7	30.00
Benzene	10.0	10.1	1.0	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19J1295

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Calibration: YJ90016 **Laboratory ID:** Y9J1617-SCV1

Sequence: Y9J1617 **Standard ID:** Y19I365

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
Bromochloromethane	10.0	10.7	7.1	30.00
Bromodichloromethane	10.0	9.82	-1.8	30.00
Bromoform	10.0	9.97	-0.3	30.00
Bromomethane	10.0	12.7	26.8	30.00
Carbon disulfide	10.0	8.06	-19.4	30.00
Carbon tetrachloride	10.0	9.71	-2.9	30.00
Chlorobenzene	10.0	10.0	0.3	30.00
Chloroethane	10.0	9.89	-1.1	30.00
Chloroform	10.0	10.0	0.4	30.00
Chloromethane	10.0	11.9	19.4	30.00
cis-1,2-Dichloroethylene	10.0	9.85	-1.5	30.00
cis-1,3-Dichloropropylene	10.0	9.41	-5.9	30.00
Cyclohexane	10.0	4.51	-54.9 *	30.00
Dibromochloromethane	10.0	10.1	1.0	30.00
Dibromomethane	10.0	9.81	-1.9	30.00
Dichlorodifluoromethane	10.0	9.40	-6.0	30.00
Ethyl Benzene	10.0	10.3	3.1	30.00
Hexachlorobutadiene	10.0	10.4	4.0	30.00
Isopropylbenzene	10.0	9.46	-5.4	30.00
Methyl acetate	10.0	10.2	1.9	30.00
Methyl tert-butyl ether (MTBE)	10.0	10.4	4.4	30.00
Methylcyclohexane	10.0	9.64	-3.6	30.00
Methylene chloride	10.0	10.6	6.5	30.00
n-Butylbenzene	10.0	10.4	4.0	30.00
n-Propylbenzene	10.0	9.76	-2.4	30.00
o-Xylene	10.0	10.1	1.3	30.00
p- & m- Xylenes	20.0	20.9	4.4	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19J1295

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Calibration: YJ90016 **Laboratory ID:** Y9J1617-SCV1

Sequence: Y9J1617 **Standard ID:** Y19I365

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	10.0	10.1	1.3	30.00
sec-Butylbenzene	10.0	10.4	4.3	30.00
Styrene	10.0	10.4	3.7	30.00
tert-Butyl alcohol (TBA)	50.0	42.5	-15.0	30.00
tert-Butylbenzene	10.0	8.55	-14.5	30.00
Tetrachloroethylene	10.0	8.56	-14.4	30.00
Toluene	10.0	9.85	-1.5	30.00
trans-1,2-Dichloroethylene	10.0	9.59	-4.1	30.00
trans-1,3-Dichloropropylene	10.0	9.69	-3.1	30.00
trans-1,4-dichloro-2-butene	10.0	9.52	-4.8	30.00
Trichloroethylene	10.0	9.29	-7.1	30.00
Trichlorofluoromethane	10.0	9.75	-2.5	30.00
Vinyl Chloride	10.0	9.43	-5.7	30.00

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908320.D
Acq On : 15 Oct 2019 6:27 pm
Operator : LLJ
Sample : SEQ-SCV1
Misc : QBQV9101519A
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 16 12:05:31 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.865	70	276514	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.922	117	989437	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.916	152	272987	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.546	65	288050	10.45	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 104.50%				
51) Toluene-d8 (SURR)	7.414	98	1371023	9.81	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 98.10%				
70) p-Bromofluorobenzene (...	10.216	95	499343	9.68	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 96.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.605	85	270814	9.40	ppb	#	1
3) Chloromethane	1.785	50	110485	11.94	ppb		94
4) Vinyl Chloride	1.890	62	262243	9.43	ppb	#	98
5) Bromomethane	2.221	94	67902	12.68	ppb		98
6) Chloroethane	2.332	64	145067	9.89	ppb	#	19
7) Trichlorofluoromethane	2.596	101	346616	9.75	ppb	#	20
9) Freon-113	3.113	101	230199	10.38	ppb	#	1
10) 1,1-Dichloroethylene	3.099	61	383275	9.28	ppb	#	83
11) Acrolein	2.971	56	7791	5.36	ppb	#	1
12) Acetone	3.099	43	32076	8.01	ppb	#	1
13) Iodomethane	3.238	142	123617	9.30	ppb	#	72
14) Methyl Acetate	3.416	43	72042	10.19	ppb	#	1
15) Carbon disulfide	3.331	76	545458	8.06	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.628	59	55756	42.52	ppb	#	1
17) Methylene Chloride	3.558	49	323186	10.65	ppb	#	80
18) Acrylonitrile	3.823	53	6627m	11.87	ppb		
19) trans-1,2-Dichloroethy...	3.843	61	373773	9.59	ppb	#	84
20) tert-Butyl Methyl Ethe...	3.825	73	580168	10.44	ppb	#	95
21) 1,1-Dichloroethane	4.238	63	512183	10.27	ppb	#	99
22) Vinyl Acetate	4.224	43	165175m	7.36	ppb		
23) Diisopropyl ether (DIPE)	4.279	45	847235	10.10	ppb	#	53
24) Ethyl-tert-Butyl ether...	4.619	59	863277	10.15	ppb	#	97
25) cis-1,2-Dichloroethylene	4.764	61	459930	9.85	ppb	#	86
26) 2-Butanone	4.720	72	13661	9.04	ppb	#	1
27) 2,2-Dichloropropane	4.784	77	401987	9.16	ppb	#	87
28) Tetrahydrofuran	5.014	42	29154	10.22	ppb	#	1
29) Bromochloromethane	4.988	49	178649	10.71	ppb	#	52
30) Chloroform	5.081	83	496089	10.04	ppb	#	85
31) 1,1,1-Trichloroethane	5.264	97	443869	9.54	ppb	#	26
32) Cyclohexane	5.357	56	494104	4.51	ppb	#	75
33) 1,1-Dichloropropylene	5.409	75	367576	9.51	ppb	#	56
35) Carbon Tetrachloride	5.424	117	366837	9.71	ppb	#	100
36) tert-Amyl alcohol (TAA)	5.552	59	89132	100.60	ppb	#	16
37) 1,2-Dichloroethane	5.621	62	310483	10.07	ppb	#	100
38) Benzene	5.589	78	1133604	10.10	ppb	#	96
39) tert-Amyl methyl ether...	5.714	73	649323	10.08	ppb	#	1
41) Trichloroethylene	6.223	95	286943	9.29	ppb	#	74
42) Methyl Cyclohexane	6.481	83	468896	9.64	ppb	#	48
43) Methyl Methacrylate	6.484	69	200927	10.23	ppb	#	98
44) Dibromomethane	6.537	93	111039	9.81	ppb	#	90
45) Bromodichloromethane	6.705	83	352914	9.82	ppb	#	97
46) 1,2-Dichloropropane	6.455	63	277566	9.65	ppb	#	92
47) 1,4-Dioxane	6.522	88	8342m	179.49	ppb		
49) cis-1,3-Dichloropropene	7.130	75	392428	9.41	ppb	#	56
50) 4-Methyl-2-Pentanone	7.240	43	103619	9.38	ppb	#	59
52) Toluene	7.484	91	1264589	9.85	ppb		99
53) trans-1,3-Dichloropropene	7.690	75	305667	9.69	ppb	#	99

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908320.D
Acq On : 15 Oct 2019 6:27 pm
Operator : LLJ
Sample : SEQ-SCV1
Misc : QBQV9101519A
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 16 12:05:31 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

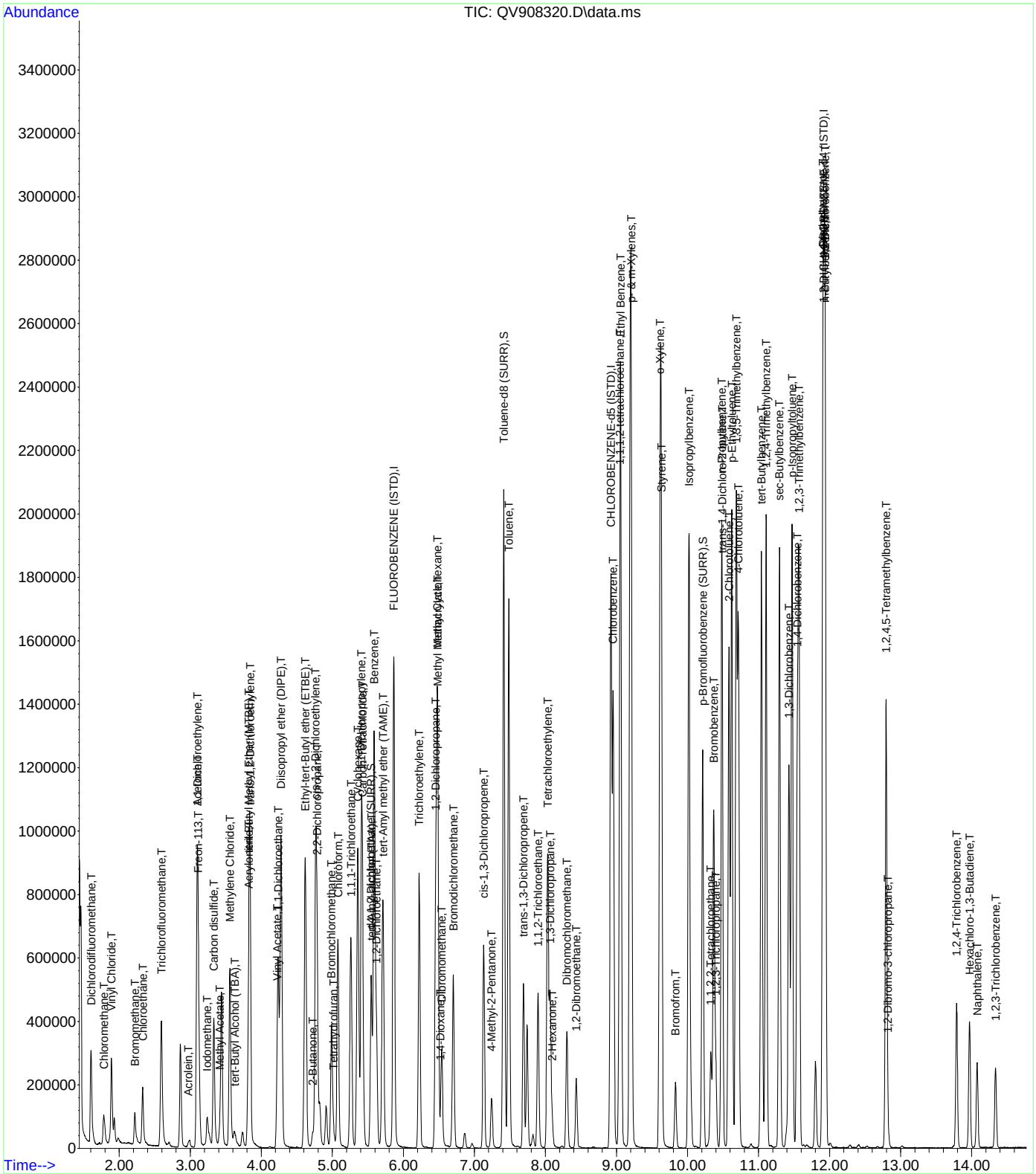
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	7.897	97	160217	9.77	ppb	#	1
55) 1,3-Dichloropropane	8.065	76	293386	10.17	ppb	#	98
56) Tetrachloroethylene	8.030	166	276659	8.56	ppb	#	100
57) 2-Hexanone	8.094	43	67646	9.03	ppb	#	1
58) Dibromochloromethane	8.301	129	198166	10.10	ppb	#	83
59) 1,2-Dibromoethane	8.434	107	148386	10.10	ppb		94
60) Chlorobenzene	8.952	112	769722	10.03	ppb	#	85
61) 1,1,1,2-tetrachloroethane	9.047	131	254504	10.05	ppb	#	47
62) Ethyl Benzene	9.059	91	1463704	10.31	ppb		95
63) p- & m-Xylenes	9.204	91	2313947	20.88	ppb		93
64) o-Xylene	9.614	91	1178582	10.13	ppb		96
65) Styrene	9.634	104	847482	10.37	ppb	#	82
66) Bromofrom	9.829	173	94390	9.97	ppb	#	81
68) p-Ethyltoluene	10.622	105	1323552	10.67	ppb	#	97
69) Isopropylbenzene	10.021	105	1426705	9.46	ppb	#	90
71) 1,1,2,2-Tetrachloroethane	10.326	83	164943	10.34	ppb	#	65
72) Bromobenzene	10.370	77	524635	9.65	ppb	#	73
73) trans-1,4-Dichloro-2-b...	10.489	75	10887	9.52	ppb	#	1
74) 1,2,3-Trichloropropane	10.396	110	46660	9.83	ppb	#	1
75) n-Propylbenzene	10.483	91	1669143	9.76	ppb	#	89
76) 2-Chlorotoluene	10.585	91	1019403	9.41	ppb		98
77) 4-Chlorotoluene	10.715	91	1153044	9.59	ppb		95
78) 1,3,5-Trimethylbenzene	10.686	105	1211586	9.79	ppb	#	61
79) tert-Butylbenzene	11.041	119	974383	8.55	ppb	#	88
80) 1,2,4-Trimethylbenzene	11.105	105	1192961	9.98	ppb		93
81) sec-Butylbenzene	11.294	105	1426633	10.43	ppb	#	92
82) 1,3-Dichlorobenzene	11.427	146	509036	9.73	ppb		91
83) p-Isopropyltoluene	11.471	119	1214984	10.13	ppb		94
84) 1,4-Dichlorobenzene	11.547	146	491502	9.81	ppb		90
85) 1,2,3-Trimethylbenzene	11.570	105	1098767	9.98	ppb	#	91
86) p-Diethylbenzene	11.907	105	651881	11.71	ppb	#	60
87) 1,2-Dichlorobenzene	11.939	146	405944	10.08	ppb	#	100
88) n-Butylbenzene	11.936	91	1166098m	10.40	ppb		
89) 1,2-Dibromo-3-chloropr...	12.819	75	25156	10.15	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.796	119	830645	10.47	ppb	#	88
91) 1,2,4-Trichlorobenzene	13.787	180	144008	10.30	ppb	#	11
92) Hexachloro-1,3-Butadiene	13.970	225	85097	10.40	ppb	#	65
93) Naphthalene	14.078	128	220897	9.68	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.336	180	79268	10.78	ppb	#	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908320.D
Acq On : 15 Oct 2019 6:27 pm
Operator : LLJ
Sample : SEQ-SCV1
Misc : QBQV9101519A
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 16 12:05:31 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA6	Calibration:	YJ90014
Lab File ID:	QV617212.D	Calibration Date:	10/08/19 15:48
Sequence:	Y9K0408	Injection Date:	10/31/19
Lab Sample ID:	Y9K0408-CCV1	Injection Time:	22:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	10.0	11.0	0.3686245	0.4085228		10.8	20	
1,1,1-Trichloroethane	A	10.0	10.3	2.218196	2.307791	0.1	4.0	20	
1,1,2,2-Tetrachloroethane	A	10.0	10.6	0.8028804	0.8599952	0.3	7.1	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	10.6	1.135156	1.219439	0.1	7.4	20	
1,1,2-Trichloroethane	A	10.0	10.9	0.2914915	0.3188658	0.1	9.4	20	
1,1-Dichloroethane	A	10.0	11.1	2.545966	2.859896	0.2	12.3	20	
1,1-Dichloroethylene	A	10.0	10.4	2.029954	2.119119	0.1	4.4	20	
1,2,3-Trichlorobenzene	A	10.0	6.54	0.5859225	0.3778554		-35.5	20	*
1,2,3-Trichloropropane	A	10.0	10.6	0.2403231	0.2577921		7.3	20	
1,2,4-Trichlorobenzene	A	10.0	8.28	0.7236915	0.6051944	0.2	-16.4	20	
1,2,4-Trimethylbenzene	A	10.0	10.5	2.981414	3.186539		6.9	20	
1,2-Dibromo-3-chloropropane	A	10.0	8.35	0.1428133	0.1207258	0.05	-15.5	20	
1,2-Dibromoethane	A	10.0	11.0	0.2842428	0.3160957	0.1	11.2	20	
1,2-Dichlorobenzene	A	10.0	10.6	1.630641	1.767843	0.4	8.4	20	
1,2-Dichloroethane	A	10.0	10.7	1.730046	1.856519	0.1	7.3	20	
1,2-Dichloropropane	A	10.0	10.3	0.4323397	0.4467476	0.1	3.3	20	
1,3,5-Trimethylbenzene	A	10.0	10.4	2.906925	3.087027		6.2	20	
1,3-Dichlorobenzene	A	10.0	10.7	1.793649	1.945835	0.6	8.5	20	
1,4-Dichlorobenzene	A	10.0	10.8	1.823086	1.990116	0.5	9.2	20	
1,4-Dioxane	A	200	217	2.332943E-03	2.533986E-03		8.6	20	
2-Butanone	Q	10.0	14.5	0.1252058	0.1904848	0.1	45.0	20	*
2-Hexanone	A	10.0	12.1	0.2339493	0.2852775	0.1	21.9	20	*
4-Methyl-2-pentanone	A	10.0	9.74	0.4827697	0.4736535	0.1	-1.9	20	
Acetone	Q	10.0	16.8	0.42532	0.6417036	0.1	68.1	20	*
Acrolein	A	10.0	10.6	9.104406E-02	9.635715E-02		5.8	20	
Acrylonitrile	A	10.0	11.6	0.343979	0.4003511		16.4	20	
Benzene	A	10.0	11.8	4.929968	5.915996	0.5	20.0	20	
Bromochloromethane	A	10.0	11.4	1.193372	1.371654		14.9	20	
Bromodichloromethane	A	10.0	10.3	0.5179594	0.5364604	0.2	3.6	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA6	Calibration:	YJ90014
Lab File ID:	QV617212.D	Calibration Date:	10/08/19 15:48
Sequence:	Y9K0408	Injection Date:	10/31/19
Lab Sample ID:	Y9K0408-CCV1	Injection Time:	22:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	11.0	0.2061127	0.2284758	0.1	10.8	20	
Bromomethane	A	10.0	1.26	0.7508482	9.310994E-02	0.1	-87.6	20	*
Carbon disulfide	A	10.0	10.2	3.174901	3.24134	0.1	2.1	20	
Carbon tetrachloride	A	10.0	10.0	2.04451	2.058027	0.1	0.7	20	
Chlorobenzene	A	10.0	11.1	0.9532627	1.067007	0.5	11.9	20	
Chloroethane	A	10.0	11.6	0.8553427	0.9836845	0.1	15.0	20	
Chloroform	A	10.0	10.9	2.377451	2.614578	0.2	10.0	20	
Chloromethane	A	10.0	8.02	1.372591	1.092623	0.1	-20.4	20	*
cis-1,2-Dichloroethylene	A	10.0	10.9	2.308826	2.535042	0.1	9.8	20	
cis-1,3-Dichloropropylene	A	10.0	10.8	0.6237846	0.6772486	0.2	8.6	20	
Cyclohexane	A	10.0	9.74	2.128034	2.08485	0.1	-2.0	20	
Dibromochloromethane	A	10.0	10.7	0.3607348	0.3891376	0.1	7.9	20	
Dibromomethane	A	10.0	10.8	0.2158479	0.2343686		8.6	20	
Dichlorodifluoromethane	A	10.0	12.0	0.9236546	1.111633	0.1	20.4	20	*
Ethyl Benzene	A	10.0	11.2	1.509664	1.714309	0.1	13.6	20	
Hexachlorobutadiene	A	10.0	8.92	0.1488618	0.1332889		-10.5	20	
Isopropylbenzene	A	10.0	10.7	3.734141	4.075539	0.1	9.1	20	
Methyl acetate	A	10.0	11.2	0.832174	0.944683	0.1	13.5	20	
Methyl tert-butyl ether (MTBE)	A	10.0	11.0	3.433721	3.806274	0.1	10.8	20	
Methylcyclohexane	A	10.0	7.38	0.5280586	0.3947094	0.1	-25.3	20	*
Methylene chloride	A	10.0	11.0	1.863196	2.058316	0.1	10.5	20	
n-Butylbenzene	A	10.0	9.01	2.321236	2.125168		-8.4	20	
n-Propylbenzene	A	10.0	10.6	4.002652	4.343552		8.5	20	
o-Xylene	A	10.0	11.0	1.238737	1.379953	0.3	11.4	20	
p- & m- Xylenes	Q	20.0	19.6	1.127794	1.343025	0.1	-2.0	20	
p-Isopropyltoluene	A	10.0	9.80	2.577903	2.58689		0.3	20	
sec-Butylbenzene	A	10.0	9.61	2.765532	2.709344		-2.0	20	
Styrene	A	10.0	10.9	0.9981445	1.099105	0.3	10.1	20	
tert-Butyl alcohol (TBA)	A	10.0	9.73	0.1186468	0.1252354		5.6	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA6	Calibration:	YJ90014
Lab File ID:	QV617212.D	Calibration Date:	10/08/19 15:48
Sequence:	Y9K0408	Injection Date:	10/31/19
Lab Sample ID:	Y9K0408-CCV1	Injection Time:	22:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
tert-Butylbenzene	A	10.0	10.2	2.850856	2.954291		3.6	20
Tetrachloroethylene	A	10.0	9.99	0.4449759	0.4475173	0.2	0.6	20
Toluene	A	10.0	11.2	1.451097	1.649389	0.4	13.7	20
trans-1,2-Dichloroethylene	A	10.0	10.5	1.946025	2.050139	0.1	5.4	20
trans-1,3-Dichloropropylene	A	10.0	10.6	0.5406635	0.5785305	0.1	7.0	20
trans-1,4-dichloro-2-butene	A	10.0	10.6	0.9411221	0.9820023		4.3	20
Trichloroethylene	A	10.0	9.95	0.4151986	0.4150412	0.2	-0.04	20
Trichlorofluoromethane	A	10.0	11.5	1.787671	2.046336	0.1	14.5	20
Vinyl Chloride	A	10.0	9.39	1.369773	1.276067	0.1	-6.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617212.D
Acq On : 31 Oct 2019 10:01 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV6103119B
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 31 21:33:14 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.633	70	314424	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.663	117	1165318	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.621	152	436278	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.324	65	425186	9.76	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 97.60%				
53) Toluene-d8 (SURR)	7.172	98	1492307	9.73	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 97.30%				
73) p-Bromofluorobenzene (...	9.946	95	517486	9.82	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 98.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.351	85	349524m	12.05	ppb		
3) Chloromethane	1.543	50	343547	8.02	ppb	#	44
4) Vinyl Chloride	1.621	62	401226	9.39	ppb	#	48
5) Bromomethane	1.927	94	29276m	1.26	ppb		
6) Chloroethane	2.044	64	309294	11.63	ppb		90
7) Trichlorofluoromethane	2.306	101	643417	11.49	ppb		98
8) Ethanol	2.473	45	170995	630.56	ppb	#	1
9) Freon-113	2.845	101	383421	10.59	ppb		100
10) 1,1-Dichloroethylene	2.818	61	666302	10.35	ppb		95
11) Acrolein	2.712	56	30297	10.59	ppb	#	83
12) Acetone	2.843	43	201767	16.81	ppb	#	95
13) Iodomethane	2.954	142	42686	1.00	ppb		97
14) Allyl Chloride	3.182	76	258101	11.91	ppb	#	100
15) Methyl Acetate	3.174	43	297031	11.25	ppb		99
16) Carbon disulfide	3.032	76	1019155	10.17	ppb		100
17) tert-Butyl Alcohol (TBA)	3.413	59	39377	9.73	ppb	#	1
18) Methylene Chloride	3.310	49	647184	10.98	ppb		88
19) Acrylonitrile	3.510	53	125880	11.57	ppb	#	71
20) trans-1,2-Dichloroethy...	3.586	61	644613	10.47	ppb		97
21) tert-Butyl Methyl Ethe...	3.577	73	1196784	10.99	ppb	#	88
22) 1,1-Dichloroethane	3.997	63	899220	11.13	ppb		99
23) Vinyl Acetate	4.050	43	745911	10.61	ppb	#	100
24) Diisopropyl ether (DIPE)	4.047	45	1776023	11.33	ppb	#	98
25) Ethyl-tert-Butyl ether...	4.392	59	1534722	11.24	ppb	#	98
26) cis-1,2-Dichloroethylene	4.537	61	797078	10.89	ppb	#	75
27) 2-Butanone	4.509	72	59893	14.50	ppb	#	95
28) 2,2-Dichloropropane	4.540	77	742945	10.99	ppb	#	65
29) Tetrahydrofuran	4.774	42	120336	10.65	ppb	#	44
30) Bromochloromethane	4.760	49	431281	11.40	ppb		89
31) Chloroform	4.865	83	822086	10.91	ppb	#	84
32) 1,1,1-Trichloroethane	5.016	97	725625	10.33	ppb	#	82
33) Cyclohexane	5.093	56	655527	9.74	ppb		87
34) 1,1-Dichloropropylene	5.166	75	624524	10.32	ppb		91
36) Carbon Tetrachloride	5.171	117	647093	10.01	ppb	#	54
37) tert-Amyl alcohol (TAA)	5.366	59	333152	102.93	ppb		95
38) 1,2-Dichloroethane	5.397	62	583734	10.66	ppb		99
39) Benzene	5.347	78	1860131	11.84	ppb	#	68
40) tert-Amyl methyl ether...	5.483	73	1240529	11.29	ppb	#	100
42) Trichloroethylene	5.987	95	483655	9.95	ppb		99
43) Methyl Cyclohexane	6.220	83	459962	7.38	ppb	#	77
44) Methyl Methacrylate	6.282	69	265807	10.35	ppb	#	28
45) Dibromomethane	6.307	93	273114	10.77	ppb		99
46) Bromodichloromethane	6.482	83	625147	10.28	ppb		95
47) 1,2-Dichloropropane	6.223	63	520603	10.27	ppb	#	100
48) 1,4-Dioxane	6.295	88	59058	216.62	ppb	#	80
49) 2-nitropropane	6.663	43	116952	9.25	ppb	#	100
51) cis-1,3-Dichloropropene	6.907	75	789210	10.77	ppb		87
52) 4-Methyl-2-Pentanone	7.033	43	551957	9.74	ppb		91

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617212.D
Acq On : 31 Oct 2019 10:01 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV6103119B
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 31 21:33:14 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration

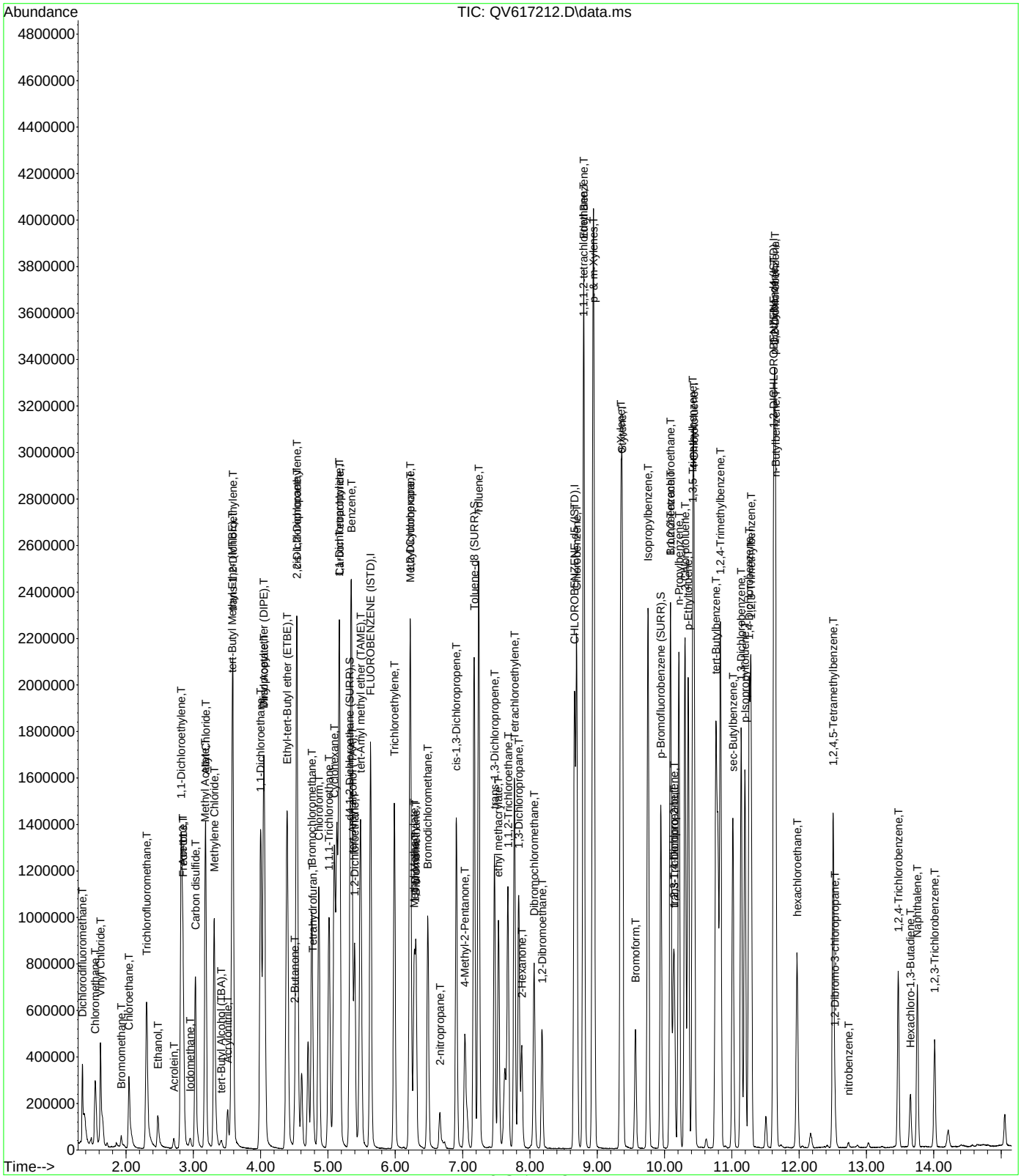
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Toluene	7.239	91	1922063	11.21	ppb		99
55) trans-1,3-Dichloropropene	7.472	75	674172	10.61	ppb		99
56) ethyl methacrylate	7.531	69	518138	10.38	ppb	#	100
57) 1,1,2-Trichloroethane	7.675	97	371580	10.86	ppb		94
58) 1,3-Dichloropropane	7.834	76	620744	10.81	ppb		93
59) Tetrachloroethylene	7.773	166	521500	9.99	ppb	#	100
60) 2-Hexanone	7.878	43	332439	12.06	ppb	#	41
61) Dibromochloromethane	8.062	129	453469	10.69	ppb		97
62) 1,2-Dibromoethane	8.182	107	368352	11.01	ppb		96
63) Chlorobenzene	8.694	112	1243403	11.07	ppb		94
64) 1,1,1,2-tetrachloroethane	8.794	131	476059	10.96	ppb		97
65) Ethyl Benzene	8.802	91	1997715	11.15	ppb		99
66) p- & m-Xylenes	8.944	91	3130102	19.59	ppb		98
67) o-Xylene	9.350	91	1608084	10.99	ppb		100
68) Styrene	9.373	104	1280807	10.87	ppb		98
69) Bromoform	9.567	173	266247	11.01	ppb	#	81
71) p-Ethyltoluene	10.352	105	1462215	10.64	ppb	#	68
72) Isopropylbenzene	9.754	105	1778068	10.66	ppb		99
74) 1,1,2,2-Tetrachloroethane	10.088	83	375197	10.55	ppb	#	69
75) Bromobenzene	10.088	77	750455	10.44	ppb		95
76) trans-1,4-Dichloro-2-b...	10.143	75	428426	10.57	ppb	#	56
77) 1,2,3-Trichloropropane	10.143	110	112469	10.62	ppb		66
78) n-Propylbenzene	10.213	91	1894996	10.58	ppb		99
79) 2-Chlorotoluene	10.305	91	1269600	10.42	ppb		98
80) 4-Chlorotoluene	10.438	91	1440702	10.46	ppb		98
81) 1,3,5-Trimethylbenzene	10.419	105	1346802	10.39	ppb	#	64
82) tert-Butylbenzene	10.764	119	1288892	10.18	ppb		90
83) 1,2,4-Trimethylbenzene	10.830	105	1390217	10.50	ppb		99
84) sec-Butylbenzene	11.017	105	1182027	9.61	ppb		99
85) 1,3-Dichlorobenzene	11.139	146	848925	10.68	ppb		98
86) p-Isopropyltoluene	11.195	119	1128603	9.80	ppb		98
87) 1,4-Dichlorobenzene	11.256	146	868244	10.75	ppb		99
88) 1,2,3-Trimethylbenzene	11.284	105	1278169	7.63	ppb		100
89) p-Diethylbenzene	11.626	105	486454	9.36	ppb	#	79
90) 1,2-Dichlorobenzene	11.643	146	771271	10.65	ppb		99
91) n-Butylbenzene	11.651	91	927164	9.01	ppb	#	78
92) hexachloroethane	11.971	117	194964	9.11	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	12.530	75	52670	8.35	ppb		93
94) 1,2,4,5-Tetramethylben...	12.505	119	908724	9.63	ppb		100
95) nitrobenzene	12.734	77	10877	7.31	ppb	#	100
96) 1,2,4-Trichlorobenzene	13.474	180	264033	8.28	ppb		97
97) Hexachloro-1,3-Butadiene	13.652	225	58151	8.92	ppb		97
98) Naphthalene	13.755	128	637135	7.51	ppb		98
99) 1,2,3-Trichlorobenzene	14.013	180	164850	6.54	ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617212.D
Acq On : 31 Oct 2019 10:01 pm
InstName : MSVOA6
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV6103119B
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 31 21:33:14 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration



FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA9	Calibration:	YJ90016
Lab File ID:	QV908485.D	Calibration Date:	10/16/19 12:25
Sequence:	Y9K0412	Injection Date:	11/04/19
Lab Sample ID:	Y9K0412-CCV1	Injection Time:	06:58

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	10.0	10.8	0.2558188	0.2752427		7.6	20	
1,1,1-Trichloroethane	A	10.0	12.0	1.683483	2.014285	0.1	19.6	20	
1,1,2,2-Tetrachloroethane	A	10.0	11.2	0.5846162	0.6515937	0.3	11.5	20	
1,1,2-Trichloro-1,2,2-trifluoroeth ane (Freon 113)	A	10.0	10.7	0.8016853	0.8567034	0.1	6.9	20	
1,1,2-Trichloroethane	A	10.0	10.8	0.1657804	0.1797711	0.1	8.4	20	
1,1-Dichloroethane	A	10.0	12.0	1.802906	2.159807	0.2	19.8	20	
1,1-Dichloroethylene	A	10.0	9.64	1.494391	1.440545	0.1	-3.6	20	
1,2,3-Trichlorobenzene	A	10.0	5.49	0.2692488	0.1479264		-45.1	20	*
1,2,3-Trichloropropane	A	10.0	11.3	0.1739207	0.1972248		13.4	20	
1,2,4-Trichlorobenzene	A	10.0	6.75	0.5119314	0.3455655	0.2	-32.5	20	*
1,2,4-Trimethylbenzene	A	10.0	11.2	4.380675	4.894545		11.7	20	
1,2-Dibromo-3-chloropropane	A	10.0	10.4	9.082904E-02	9.489627E-02	0.05	4.5	20	
1,2-Dibromoethane	A	10.0	11.0	0.1484334	0.1627557	0.1	9.6	20	
1,2-Dichlorobenzene	A	10.0	10.5	1.475499	1.546268	0.4	4.8	20	
1,2-Dichloroethane	A	10.0	12.0	1.114544	1.332854	0.1	19.6	20	
1,2-Dichloropropane	A	10.0	10.7	0.2908478	0.3123376	0.1	7.4	20	
1,3,5-Trimethylbenzene	A	10.0	11.0	4.531872	5.006479		10.5	20	
1,3-Dichlorobenzene	A	10.0	10.7	1.916962	2.051874	0.6	7.0	20	
1,4-Dichlorobenzene	A	10.0	10.8	1.834986	1.985139	0.5	8.2	20	
1,4-Dioxane	A	200	102	4.697315E-04	2.387062E-04		-49.2	20	*
2-Butanone	L	10.0	10.0	8.121042E-02	5.489211E-02	0.1	0.4	20	
2-Hexanone	A	10.0	10.5	0.0757375	7.930224E-02	0.1	4.7	20	
4-Methyl-2-pentanone	A	10.0	10.4	0.111677	0.1161184	0.1	4.0	20	
Acetone	A	10.0	10.0	0.1409858	0.1451372	0.1	2.9	20	
Acrolein	A	10.0	4.95	0.0525224	2.599226E-02		-50.5	20	*
Acrylonitrile	A	10.0	9.10	2.018424E-02	1.837681E-02		-9.0	20	
Benzene	A	10.0	11.5	4.058577	4.681632	0.5	15.4	20	
Bromochloromethane	A	10.0	12.1	0.6032327	0.730955		21.2	20	*
Bromodichloromethane	A	10.0	10.9	0.3633315	0.3952634	0.2	8.8	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA9	Calibration:	YJ90016
Lab File ID:	QV908485.D	Calibration Date:	10/16/19 12:25
Sequence:	Y9K0412	Injection Date:	11/04/19
Lab Sample ID:	Y9K0412-CCV1	Injection Time:	06:58

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	10.3	9.572104E-02	9.873996E-02	0.1	3.2	20	
Bromomethane	Q	10.0	7.37	0.236425	0.1381378	0.1	-26.3	20	*
Carbon disulfide	A	10.0	11.2	2.448376	2.739648	0.1	11.9	20	
Carbon tetrachloride	A	10.0	12.1	1.366149	1.65296	0.1	21.0	20	*
Chlorobenzene	A	10.0	11.0	0.7759435	0.8499876	0.5	9.5	20	
Chloroethane	A	10.0	7.68	0.5306789	0.4077658	0.1	-23.2	20	*
Chloroform	A	10.0	12.0	1.78675	2.139681	0.2	19.8	20	
Chloromethane	Q	10.0	5.12	0.4444283	0.1605954	0.1	-48.8	20	*
cis-1,2-Dichloroethylene	A	10.0	11.9	1.688967	2.002977	0.1	18.6	20	
cis-1,3-Dichloropropylene	A	10.0	10.5	0.4215103	0.444305	0.2	5.4	20	
Cyclohexane	A	10.0	12.2	3.9646	4.847533	0.1	22.3	20	*
Dibromochloromethane	A	10.0	10.6	0.1982547	0.2091261	0.1	5.5	20	
Dibromomethane	A	10.0	11.4	0.1144099	0.1302772		13.9	20	
Dichlorodifluoromethane	A	10.0	11.4	1.041519	1.187152	0.1	14.0	20	
Ethyl Benzene	A	10.0	11.2	1.484293	1.608546	0.1	8.4	20	
Hexachlorobutadiene	A	10.0	6.47	0.2997927	0.1939346		-35.3	20	*
Isopropylbenzene	A	10.0	11.4	5.644584	6.318189	0.1	11.9	20	
Methyl acetate	A	10.0	13.0	0.2557125	0.3330266	0.1	30.2	20	*
Methyl tert-butyl ether (MTBE)	A	10.0	11.5	2.009395	2.316927	0.1	15.3	20	
Methylcyclohexane	A	10.0	11.4	0.4917152	0.559869	0.1	13.9	20	
Methylene chloride	A	10.0	11.3	1.097481	1.244541	0.1	13.4	20	
n-Butylbenzene	A	10.0	11.6	4.108733	4.773808		16.2	20	
n-Propylbenzene	A	10.0	11.6	6.536059	7.277612		11.3	20	
o-Xylene	A	10.0	10.9	1.176168	1.281586	0.3	9.0	20	
p- & m- Xylenes	A	20.0	23.0	1.180666	1.291103	0.1	9.4	20	
p-Isopropyltoluene	A	10.0	10.9	4.392049	4.806038		9.4	20	
sec-Butylbenzene	A	10.0	11.0	5.011691	5.504969		9.8	20	
Styrene	A	10.0	10.8	0.8258037	0.8946687	0.3	8.3	20	
tert-Butyl alcohol (TBA)	A	10.0	10.5	4.742582E-02	4.981759E-02		5.0	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Instrument ID:	QVOA9	Calibration:	YJ90016
Lab File ID:	QV908485.D	Calibration Date:	10/16/19 12:25
Sequence:	Y9K0412	Injection Date:	11/04/19
Lab Sample ID:	Y9K0412-CCV1	Injection Time:	06:58

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
tert-Butylbenzene	A	10.0	11.0	4.173746	4.575759		9.6	20
Tetrachloroethylene	A	10.0	10.3	0.3267985	0.3369601	0.2	3.1	20
Toluene	A	10.0	10.8	1.297081	1.397678	0.4	7.8	20
trans-1,2-Dichloroethylene	A	10.0	11.7	1.408936	1.653693	0.1	17.4	20
trans-1,3-Dichloropropylene	A	10.0	10.7	0.3188676	0.3418235	0.1	7.2	20
trans-1,4-dichloro-2-butene	A	10.0	10.9	4.190052E-02	4.565259E-02		9.0	20
Trichloroethylene	A	10.0	11.0	0.3120121	0.3435247	0.2	10.1	20
Trichlorofluoromethane	A	10.0	10.9	1.28555	1.396205	0.1	8.6	20
Vinyl Chloride	A	10.0	11.2	1.005562	1.131362	0.1	12.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908485.D
Acq On : 4 Nov 2019 6:58 am
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV9102519A
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 07:35:23 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.865	70	272735	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.920	117	1008143	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.919	152	255911	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.546	65	270440	9.95	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 99.50%				
51) Toluene-d8 (SURR)	7.411	98	1403388	9.85	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 98.50%				
70) p-Bromofluorobenzene (...	10.213	95	475599	9.83	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 98.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.605	85	323778	11.40	ppb	#	1
3) Chloromethane	1.785	50	43800	5.12	ppb		95
4) Vinyl Chloride	1.893	62	308562	11.25	ppb	#	98
5) Bromomethane	2.221	94	37675	7.37	ppb		97
6) Chloroethane	2.335	64	111212	7.68	ppb	#	19
7) Trichlorofluoromethane	2.593	101	380794	10.86	ppb	#	20
8) Ethanol	2.718	45	18743	440.97	ppb	#	1
9) Freon-113	3.113	101	233653	10.69	ppb	#	1
10) 1,1-Dichloroethylene	3.099	61	392887	9.64	ppb	#	83
11) Acrolein	2.971	56	7089m	4.95	ppb		
12) Acetone	3.096	43	39584	10.02	ppb	#	1
13) Iodomethane	3.238	142	78410	6.03	ppb	#	71
14) Methyl Acetate	3.413	43	90828	13.02	ppb	#	1
15) Carbon disulfide	3.334	76	747198	11.19	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.625	59	13587	10.50	ppb	#	1
17) Methylene Chloride	3.558	49	339430	11.34	ppb	#	81
18) Acrylonitrile	3.823	53	5012m	9.10	ppb		
19) trans-1,2-Dichloroethy...	3.840	61	451020	11.74	ppb	#	85
20) tert-Butyl Methyl Ethe...	3.828	73	631907	11.53	ppb	#	95
21) 1,1-Dichloroethane	4.238	63	589055m	11.98	ppb		
22) Vinyl Acetate	4.224	43	264774	11.97	ppb	#	1
23) Diisopropyl ether (DIPE)	4.282	45	894721	10.81	ppb	#	40
24) Ethyl-tert-Butyl ether...	4.619	59	926920	11.05	ppb	#	97
25) cis-1,2-Dichloroethylene	4.767	61	546282	11.86	ppb	#	86
26) 2-Butanone	4.729	72	14971	10.04	ppb	#	1
27) 2,2-Dichloropropane	4.784	77	531885	12.29	ppb	#	87
28) Tetrahydrofuran	5.020	42	30264	10.76	ppb	#	7
29) Bromochloromethane	4.988	49	199357	12.12	ppb	#	52
30) Chloroform	5.081	83	583566m	11.98	ppb		
31) 1,1,1-Trichloroethane	5.261	97	549366	11.96	ppb	#	55
32) Cyclohexane	5.363	56	1322092	12.23	ppb	#	82
33) 1,1-Dichloropropylene	5.412	75	463260	12.15	ppb	#	61
35) Carbon Tetrachloride	5.421	117	450820	12.10	ppb	#	99
36) tert-Amyl alcohol (TAA)	5.546	59	98895	113.16	ppb	#	1
37) 1,2-Dichloroethane	5.621	62	363516m	11.96	ppb		
38) Benzene	5.592	78	1276845	11.54	ppb	#	95
39) tert-Amyl methyl ether...	5.711	73	686904	10.81	ppb	#	1
41) Trichloroethylene	6.223	95	346322	11.01	ppb	#	73
42) Methyl Cyclohexane	6.481	83	564428	11.39	ppb	#	51
43) Methyl Methacrylate	6.484	69	221837	11.09	ppb	#	98
44) Dibromomethane	6.543	93	131338	11.39	ppb	#	88
45) Bromodichloromethane	6.702	83	398482	10.88	ppb	#	96
46) 1,2-Dichloropropane	6.458	63	314881	10.74	ppb	#	82
47) 1,4-Dioxane	6.519	88	4813	101.64	ppb	#	86
49) cis-1,3-Dichloropropene	7.132	75	447923	10.54	ppb	#	55
50) 4-Methyl-2-Pentanone	7.246	43	117064	10.40	ppb	#	59
52) Toluene	7.487	91	1409059	10.78	ppb		99

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908485.D
Acq On : 4 Nov 2019 6:58 am
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV9102519A
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 07:35:23 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

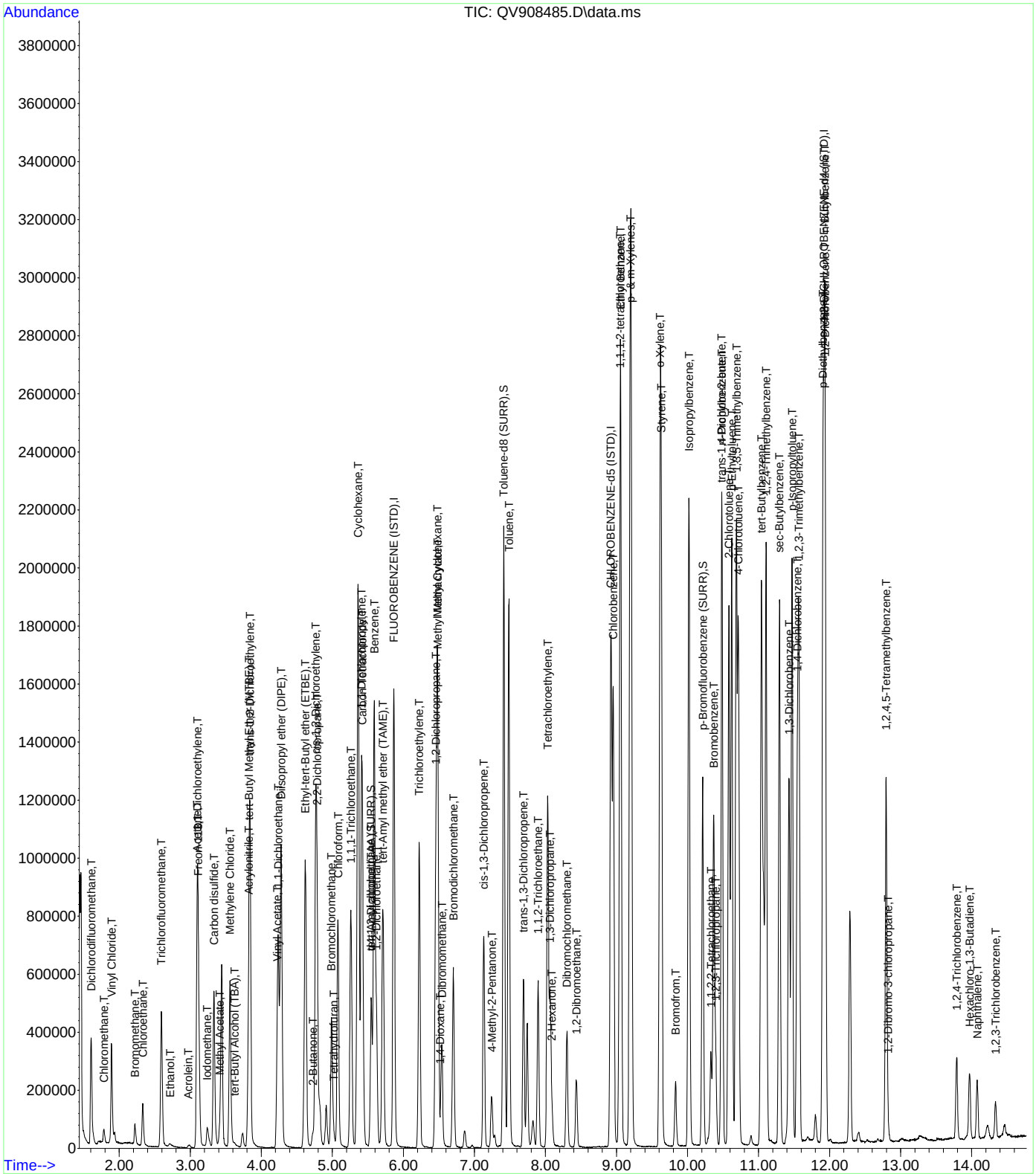
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.690	75	344607	10.72	ppb	#	88
54) 1,1,2-Trichloroethane	7.897	97	181235	10.84	ppb	#	1
55) 1,3-Dichloropropane	8.062	76	316791	10.77	ppb	#	70
56) Tetrachloroethylene	8.030	166	339704	10.31	ppb	#	100
57) 2-Hexanone	8.089	43	79948	10.47	ppb	#	1
58) Dibromochloromethane	8.301	129	210829	10.55	ppb	#	84
59) 1,2-Dibromoethane	8.437	107	164081	10.96	ppb		91
60) Chlorobenzene	8.954	112	856909	10.95	ppb	#	87
61) 1,1,1,2-tetrachloroethane	9.050	131	277484	10.76	ppb	#	47
62) Ethyl Benzene	9.059	91	1621644	11.21	ppb		96
63) p- & m-Xylenes	9.196	91	2603233	23.05	ppb		93
64) o-Xylene	9.614	91	1292022	10.90	ppb		96
65) Styrene	9.632	104	901954	10.83	ppb	#	82
66) Bromofrom	9.832	173	99544	10.32	ppb	#	94
68) p-Ethyltoluene	10.623	105	1421708	12.23	ppb	#	97
69) Isopropylbenzene	10.018	105	1616894	11.44	ppb	#	91
71) 1,1,2,2-Tetrachloroethane	10.332	83	166750	11.15	ppb	#	97
72) Bromobenzene	10.370	77	559986	10.99	ppb	#	73
73) trans-1,4-Dichloro-2-b...	10.480	75	11683	10.90	ppb	#	1
74) 1,2,3-Trichloropropane	10.399	110	50472	11.34	ppb	#	1
75) n-Propylbenzene	10.483	91	1862421	11.61	ppb	#	89
76) 2-Chlorotoluene	10.582	91	1124705	11.08	ppb		97
77) 4-Chlorotoluene	10.716	91	1243796	11.04	ppb		95
78) 1,3,5-Trimethylbenzene	10.689	105	1281213	11.05	ppb	#	60
79) tert-Butylbenzene	11.041	119	1170987	10.96	ppb		96
80) 1,2,4-Trimethylbenzene	11.105	105	1252568	11.17	ppb		93
81) sec-Butylbenzene	11.294	105	1408782	10.98	ppb	#	91
82) 1,3-Dichlorobenzene	11.430	146	525097	10.70	ppb		90
83) p-Isopropyltoluene	11.471	119	1229918	10.94	ppb		93
84) 1,4-Dichlorobenzene	11.547	146	508019m	10.82	ppb		
85) 1,2,3-Trimethylbenzene	11.567	105	1066878	10.34	ppb	#	90
86) p-Diethylbenzene	11.907	105	590324	11.31	ppb	#	55
87) 1,2-Dichlorobenzene	11.939	146	395707	10.48	ppb	#	100
88) n-Butylbenzene	11.933	91	1221670	11.62	ppb		92
89) 1,2-Dibromo-3-chloropr...	12.822	75	24285	10.45	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.796	119	744849	10.01	ppb	#	88
91) 1,2,4-Trichlorobenzene	13.790	180	88434	6.75	ppb	#	11
92) Hexachloro-1,3-Butadiene	13.970	225	49630	6.47	ppb	#	66
93) Naphthalene	14.081	128	163050	7.62	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.336	180	37856	5.49	ppb	#	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908485.D
Acq On : 4 Nov 2019 6:58 am
Operator : LLJ
Sample : SEQ-CCV1
Misc : QBQV9102519A
ALS Vial : 2 Sample Multiplier: 1

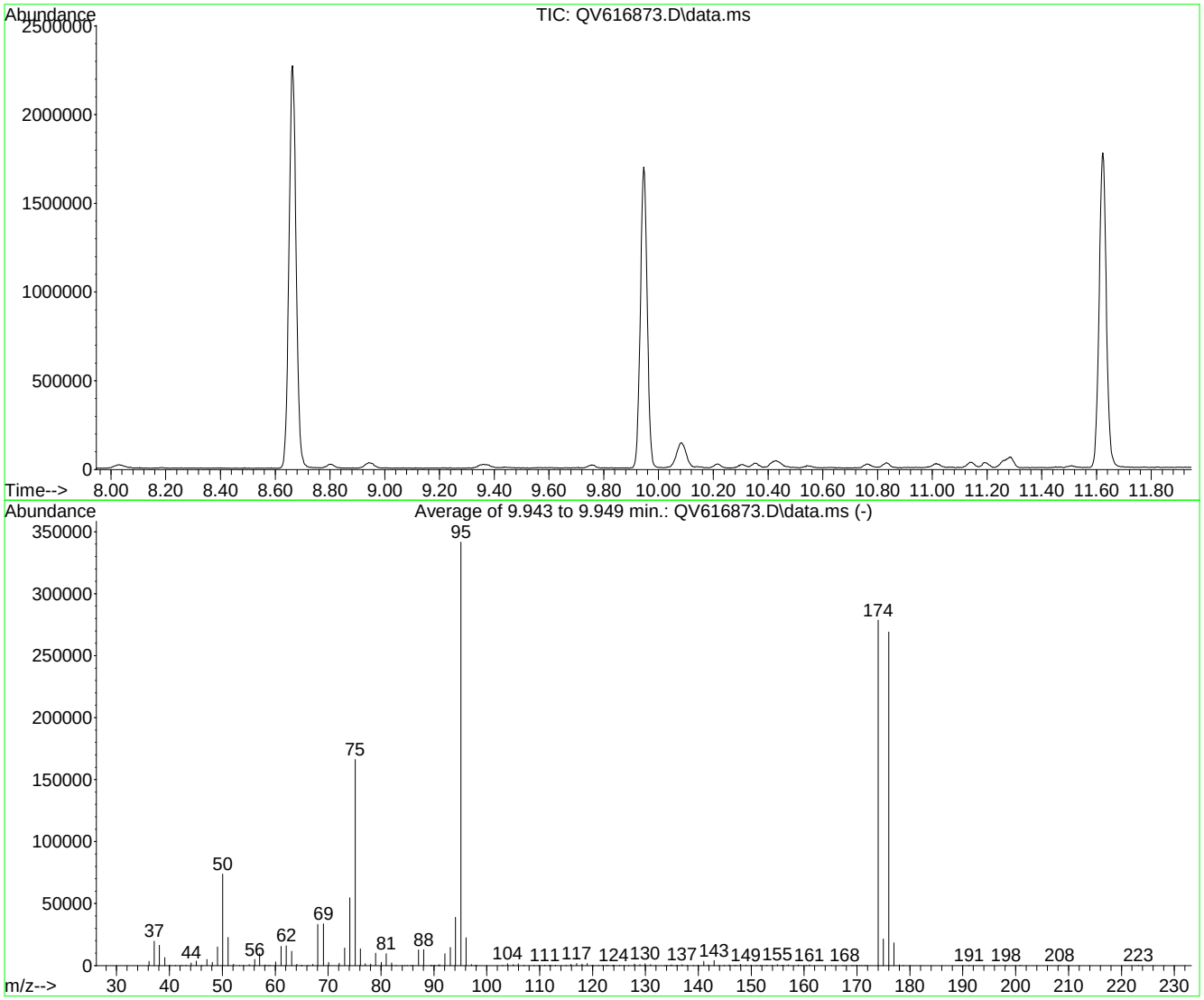
Quant Time: Nov 04 07:35:23 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Data Path : C:\msdchem\1\DATA\100819A\
Data File : QV616873.D
Acq On : 8 Oct 2019 3:48 pm
Operator : LLJ
InstName : MSVOA6
Sample : SEQ-TUN1
Misc : QBQV6100819A
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\2\METHODS\VQ6LO061.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Tue Oct 08 20:41:05 2019



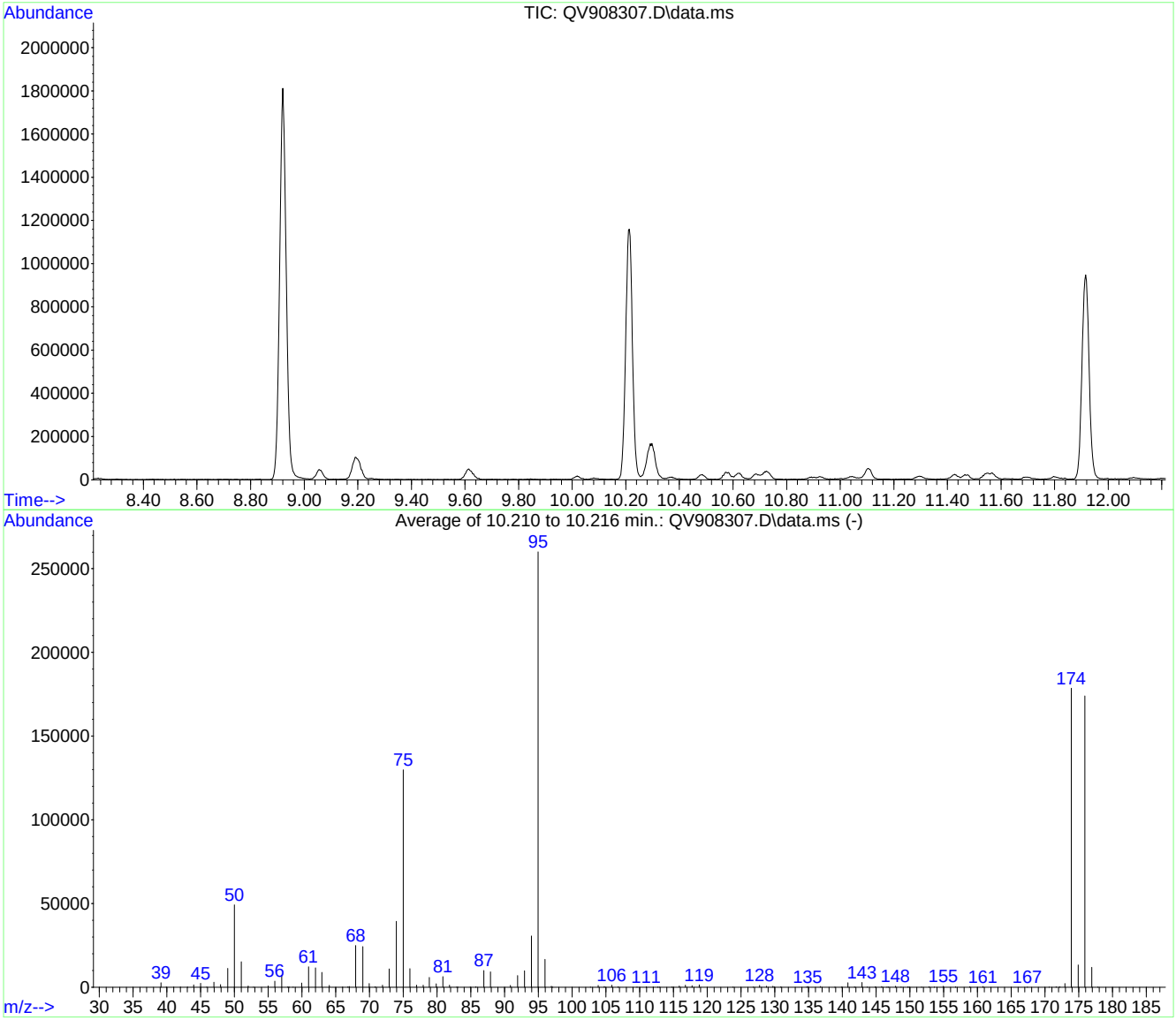
Spectrum Information: Average of 9.943 to 9.949 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.6	73885	PASS
75	95	30	60	48.7	166379	PASS
95	95	100	100	100.0	341525	PASS
96	95	5	9	6.6	22590	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	81.6	278699	PASS
175	174	5	9	7.7	21451	PASS
176	174	95	101	96.5	269013	PASS
177	176	5	9	6.8	18365	PASS

Data Path : C:\msdchem\1\data\101519A\
Data File : QV908307.D
Acq On : 15 Oct 2019 12:31 pm
Operator : LLJ
Misc : QBQV9101519A
Sample : SEQ-TUN1 Inst : QVOA9
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\VQ9LO018.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Wed Oct 16 12:02:15 2019



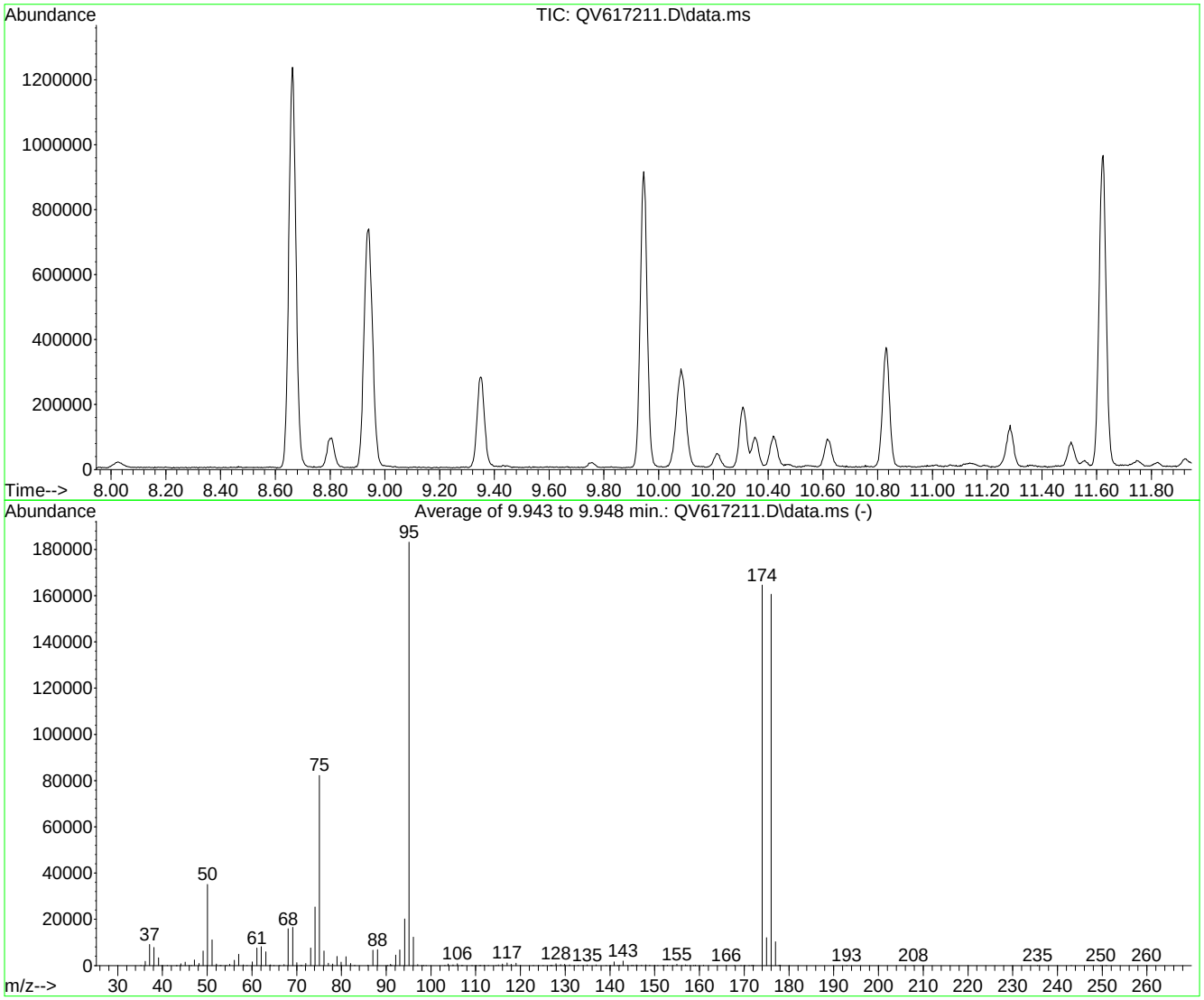
Spectrum Information: Average of 10.210 to 10.216 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	49245	PASS
75	95	30	60	49.9	129812	PASS
95	95	100	100	100.0	260032	PASS
96	95	5	9	6.4	16556	PASS
173	174	0.00	2	1.2	2188	PASS
174	95	50	100	68.7	178624	PASS
175	174	5	9	7.4	13288	PASS
176	174	95	101	97.4	173952	PASS
177	176	5	9	6.8	11851	PASS

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617211.D
Acq On : 31 Oct 2019 9:35 pm
Operator : LLJ
InstName : MSVOA6
Sample : SEQ-TUN1
Misc : QBQV6103119B
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\2\METHODS\VQ6LO061.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Tue Oct 08 20:41:05 2019



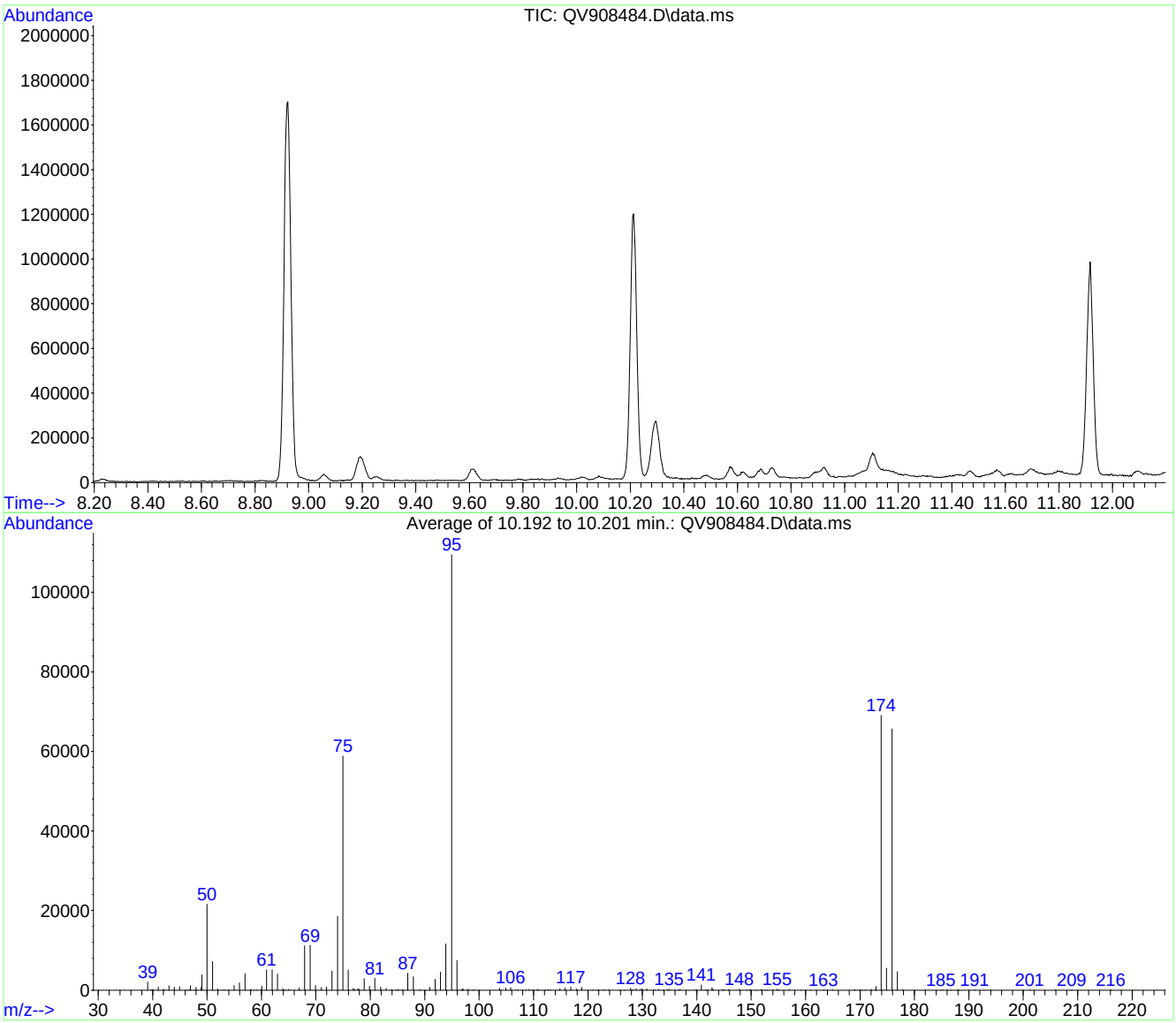
AutoFind: Scans 3112, 3113, 3114; Background Corrected with Scan 3094

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	35137	PASS
75	95	30	60	44.9	82269	PASS
95	95	100	100	100.0	183104	PASS
96	95	5	9	6.7	12273	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	89.9	164629	PASS
175	174	5	9	7.4	12103	PASS
176	174	95	101	97.5	160555	PASS
177	176	5	9	6.4	10328	PASS

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908484.D
Acq On : 4 Nov 2019 6:27 am
Operator : LLJ
Misc : QBQV9102519A
Sample : SEQ-TUN1 Inst : QVOA9
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\VQ9LO018.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Wed Oct 16 12:02:15 2019



Spectrum Information: Average of 10.192 to 10.201 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	21558	PASS
75	95	30	60	53.8	58846	PASS
95	95	100	100	100.0	109426	PASS
96	95	5	9	6.8	7472	PASS
173	174	0.00	2	1.3	883	PASS
174	95	50	100	63.1	69064	PASS
175	174	5	9	8.0	5512	PASS
176	174	95	101	95.1	65652	PASS
177	176	5	9	7.1	4633	PASS

METHOD BLANK RAW DATA

SDG: 19J1295
CLASS: VOA
METHOD: EPA 8260C

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BJ91821-BLK1	File ID:	QV617217.D
Prepared:	10/31/19 06:14	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/01/19 00:22	Instrument:	QVOA6		
Batch:	BJ91821	Sequence:	Y9K0408	Calibration:	YJ90014

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
75-35-4	1,1-Dichloroethylene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.26	J
95-63-6	1,2,4-Trimethylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BJ91821-BLK1	File ID:	QV617217.D
Prepared:	10/31/19 06:14	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/01/19 00:22	Instrument:	QVOA6		
Batch:	BJ91821	Sequence:	Y9K0408	Calibration:	YJ90014

CAS NO.	COMPOUND	CONC. (ug/L)	Q
74-83-9	Bromomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
108-90-7	Chlorobenzene	0.50	U
75-00-3	Chloroethane	0.50	U
67-66-3	Chloroform	0.50	U
74-87-3	Chloromethane	0.50	U
156-59-2	cis-1,2-Dichloroethylene	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	0.50	U
110-82-7	Cyclohexane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-71-8	Dichlorodifluoromethane	0.50	U
100-41-4	Ethyl Benzene	0.50	U
87-68-3	Hexachlorobutadiene	0.32	J
98-82-8	Isopropylbenzene	0.50	U
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	2.0	U
104-51-8	n-Butylbenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	p- & m- Xylenes	1.0	U
99-87-6	p-Isopropyltoluene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
100-42-5	Styrene	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1.0	U
98-06-6	tert-Butylbenzene	0.50	U
127-18-4	Tetrachloroethylene	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BJ91821-BLK1	File ID:	QV617217.D
Prepared:	10/31/19 06:14	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/01/19 00:22	Instrument:	QVOA6		
Batch:	BJ91821	Sequence:	Y9K0408	Calibration:	YJ90014

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-88-3	Toluene	0.50	U
156-60-5	trans-1,2-Dichloroethylene	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	0.50	U
79-01-6	Trichloroethylene	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
1330-20-7	Xylenes, Total	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.68	96.8	69 - 130	
SURR: Toluene-d8	10.0	9.76	97.6	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.58	95.8	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	327239	5.636	314424	5.633	
ISTD: Chlorobenzene-d5	1203852	8.666	1165318	8.663	
ISTD: 1,2-Dichlorobenzene-d4	458294	11.624	436278	11.621	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617217.D
Acq On : 1 Nov 2019 12:22 am
InstName : MSVOA6
Operator : LLJ
Sample : BJ91821-BLK1
Misc : QBQV6103119B
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 01 09:29:42 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration

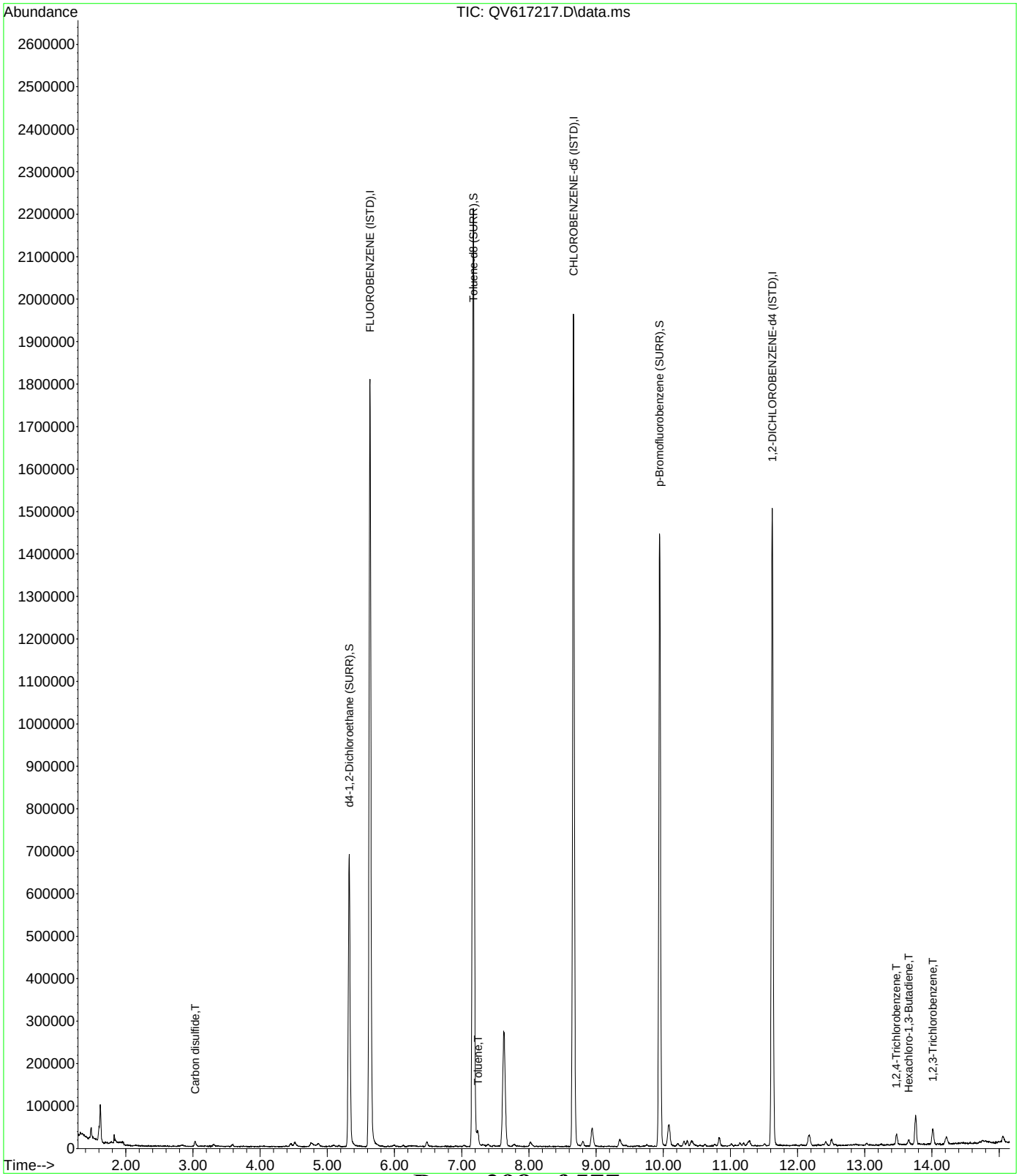
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.636	70	327239	10.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.666	117	1203852	10.00	ppb	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.624	152	458294	10.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.327	65	438603	9.68	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 96.80%			
53) Toluene-d8 (SURR)	7.172	98	1546403	9.76	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 97.60%			
73) p-Bromofluorobenzene (...	9.946	95	530426	9.58	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 95.80%			
Target Compounds						Qvalue
12) Acetone	2.851	43	2317m	Below Cal		
16) Carbon disulfide	3.032	76	15368	0.15	ppb	100
27) 2-Butanone	4.518	72	2769	Below Cal	#	95
54) Toluene	7.244	91	19597	0.11	ppb	99
66) p- & m-Xylenes	8.947	91	32404	Below Cal	#	96
96) 1,2,4-Trichlorobenzene	13.468	180	8796m	0.26	ppb	
97) Hexachloro-1,3-Butadiene	13.652	225	2210m	0.32	ppb	
98) Naphthalene	13.755	128	63000	Below Cal		99
99) 1,2,3-Trichlorobenzene	14.013	180	13133	0.50	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617217.D
Acq On : 1 Nov 2019 12:22 am
InstName : MSVOA6
Operator : LLJ
Sample : BJ91821-BLK1
Misc : QBQV6103119B
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 01 09:29:42 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration



METHOD BLANK RAW DATA

SDG: 19J1295
CLASS: VOA
METHOD: EPA 8260C

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BJ91944-BLK1	File ID:	QV908489.D
Prepared:	11/04/19 06:27	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/04/19 09:07	Instrument:	QVOA9		
Batch:	BJ91944	Sequence:	Y9K0412	Calibration:	YJ90016

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
75-35-4	1,1-Dichloroethylene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.48	J
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.66	
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BJ91944-BLK1	File ID:	QV908489.D
Prepared:	11/04/19 06:27	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/04/19 09:07	Instrument:	QVOA9		
Batch:	BJ91944	Sequence:	Y9K0412	Calibration:	YJ90016

CAS NO.	COMPOUND	CONC. (ug/L)	Q
74-83-9	Bromomethane	0.21	J
75-15-0	Carbon disulfide	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
108-90-7	Chlorobenzene	0.50	U
75-00-3	Chloroethane	0.50	U
67-66-3	Chloroform	0.50	U
74-87-3	Chloromethane	0.50	U
156-59-2	cis-1,2-Dichloroethylene	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	0.50	U
110-82-7	Cyclohexane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-71-8	Dichlorodifluoromethane	0.50	U
100-41-4	Ethyl Benzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	2.0	U
104-51-8	n-Butylbenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	p- & m- Xylenes	1.0	U
99-87-6	p-Isopropyltoluene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
100-42-5	Styrene	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1.0	U
98-06-6	tert-Butylbenzene	0.50	U
127-18-4	Tetrachloroethylene	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BJ91944-BLK1	File ID:	QV908489.D
Prepared:	11/04/19 06:27	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/04/19 09:07	Instrument:	QVOA9		
Batch:	BJ91944	Sequence:	Y9K0412	Calibration:	YJ90016

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-88-3	Toluene	0.50	U
156-60-5	trans-1,2-Dichloroethylene	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	0.50	U
79-01-6	Trichloroethylene	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
1330-20-7	Xylenes, Total	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.0	100	69 - 130	
SURR: Toluene-d8	10.0	9.65	96.5	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.5	105	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	274882	5.866	272735	5.865	
ISTD: Chlorobenzene-d5	1032364	8.923	1008143	8.92	
ISTD: 1,2-Dichlorobenzene-d4	249189	11.916	255911	11.919	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908489.D
Acq On : 4 Nov 2019 9:07 am
Operator : LLJ
Sample : BJ91944-BLK1
Misc : QBQV9102519A
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 04 11:13:22 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

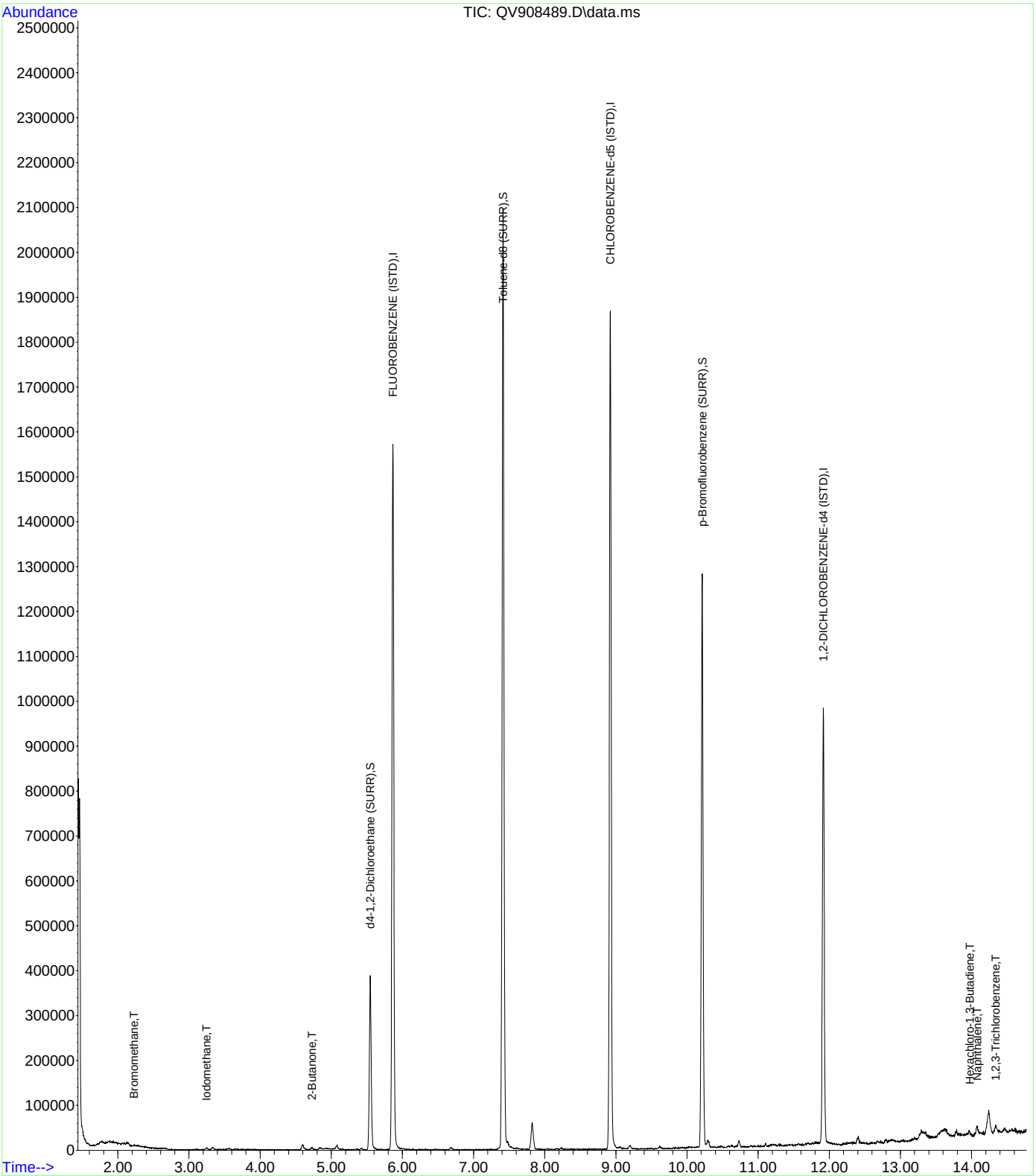
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.866	70	274882	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.923	117	1032364	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.916	152	249189	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.549	65	275431	10.05	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 100.50%				
51) Toluene-d8 (SURR)	7.414	98	1406776	9.65	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 96.50%				
70) p-Bromofluorobenzene (...	10.213	95	493694	10.48	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 104.80%				
Target Compounds							Qvalue
5) Bromomethane	2.224	94	1028	0.21	ppb		99
13) Iodomethane	3.244	142	4186	0.32	ppb	#	81
26) 2-Butanone	4.726	72	992	0.66	ppb	#	1
92) Hexachloro-1,3-Butadiene	13.973	225	1308	0.18	ppb	#	80
93) Naphthalene	14.078	128	12364	0.59	ppb	#	76
94) 1,2,3-Trichlorobenzene	14.336	180	3237	0.48	ppb	#	29

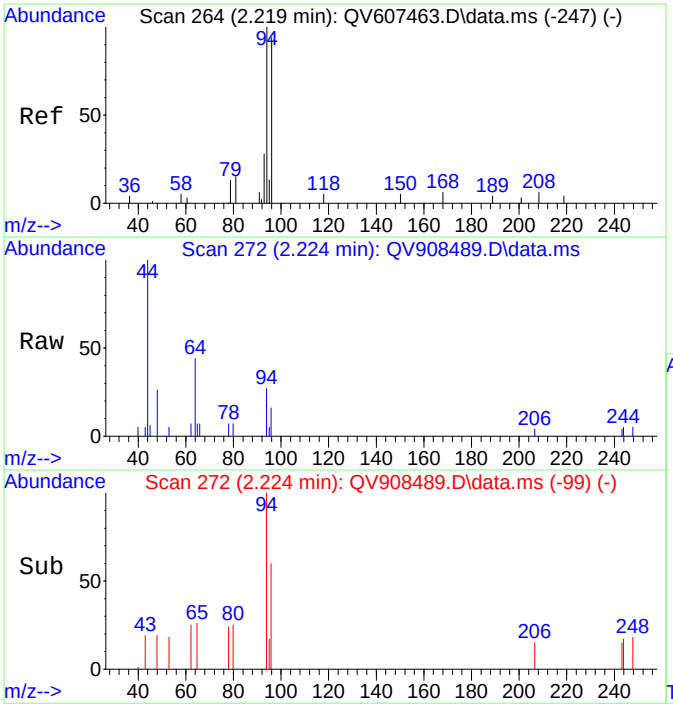
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908489.D
Acq On : 4 Nov 2019 9:07 am
Operator : LLJ
Sample : BJ91944-BLK1
Misc : QBQV9102519A
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 04 11:13:22 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

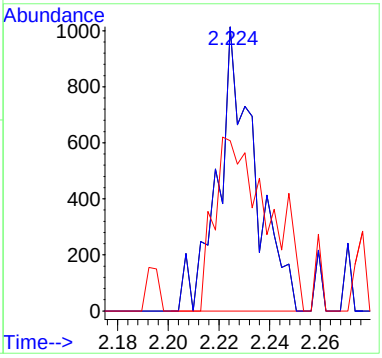


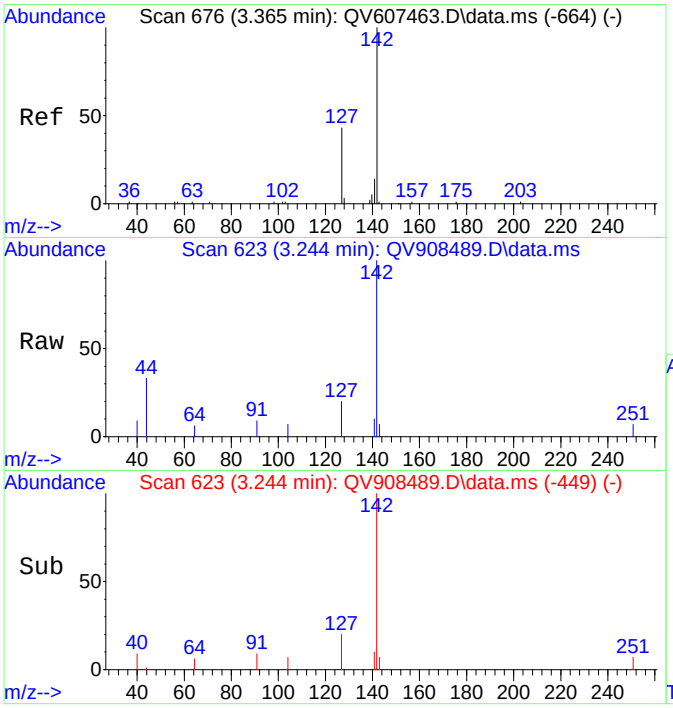


#5
Bromomethane
Concen: 0.21 ppb
RT: 2.224 min Scan# 272
Delta R.T. 0.003 min
Lab File: QV908489.D
Acq: 4 Nov 2019 9:07 am

Tgt Ion: 94 Resp: 1028

Ion	Ratio	Lower	Upper
94	100		
94	100.0	50.0	150.0
96	89.5	45.3	135.9

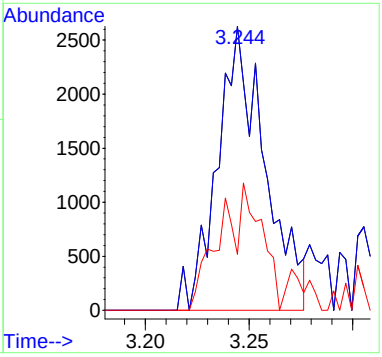


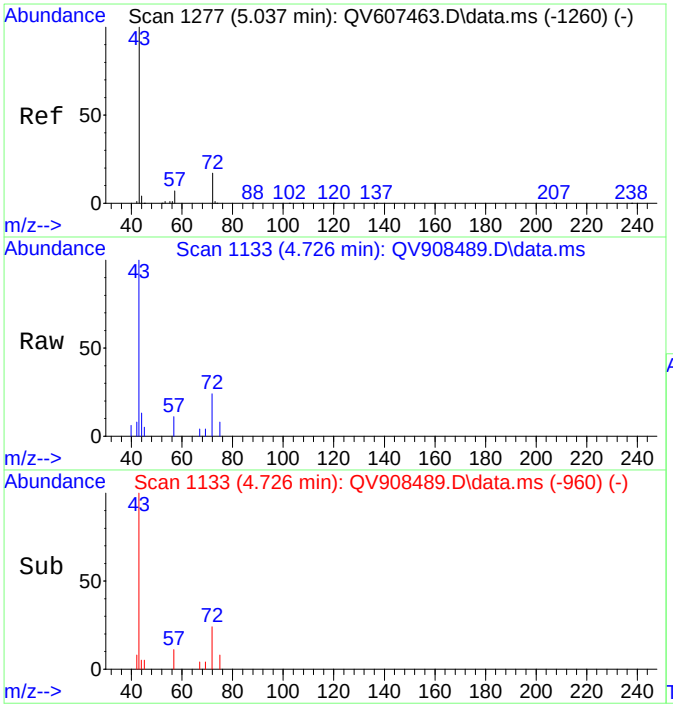


#13
Iodomethane
Concen: 0.32 ppb
RT: 3.244 min Scan# 623
Delta R.T. 0.005 min
Lab File: QV908489.D
Acq: 4 Nov 2019 9:07 am

Tgt Ion:142 Resp: 4186

Ion	Ratio	Lower	Upper
142	100		
142	100.0	64.2	96.2#
127	19.3	11.2	33.5

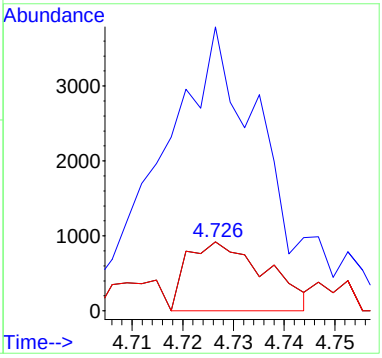


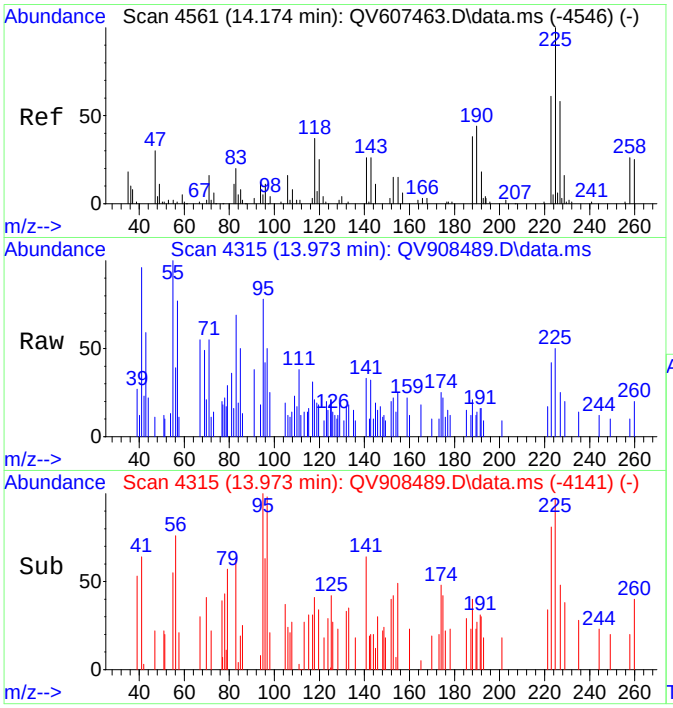


#26
2-Butanone
Concen: 0.66 ppb
RT: 4.726 min Scan# 1133
Delta R.T. 0.003 min
Lab File: QV908489.D
Acq: 4 Nov 2019 9:07 am

Tgt Ion: 72 Resp: 992

Ion	Ratio	Lower	Upper
72	100		
43	0.0	22.8	34.2#
72	100.0	4.2	12.6#

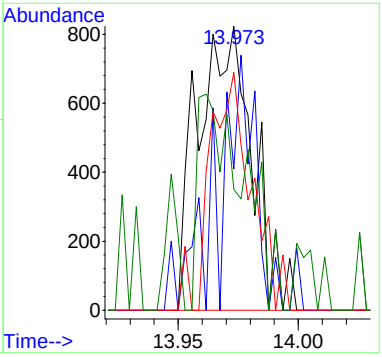


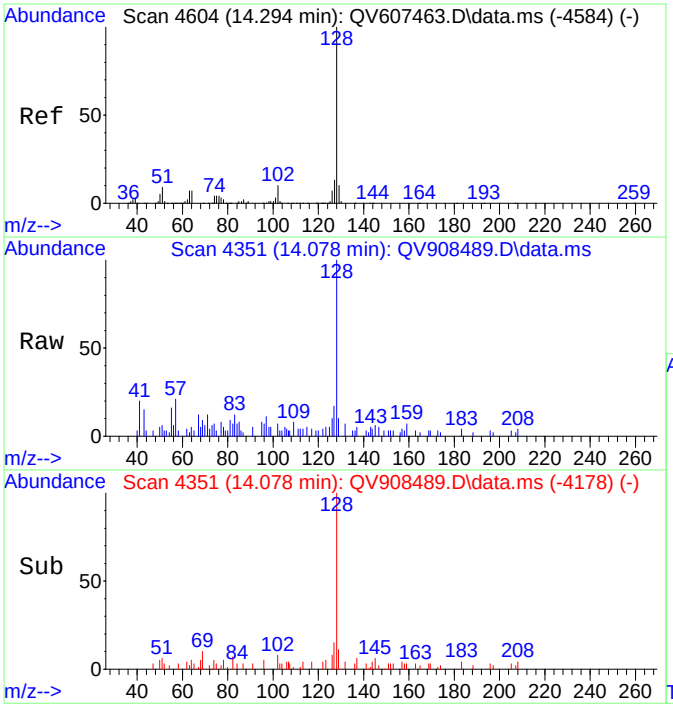


#92
Hexachloro-1,3-Butadiene
Concen: 0.18 ppb
RT: 13.973 min Scan# 4315
Delta R.T. 0.006 min
Lab File: QV908489.D
Acq: 4 Nov 2019 9:07 am

Tgt Ion:225 Resp: 1308

Ion	Ratio	Lower	Upper
225	100		
227	50.0	20.3	42.1#
223	61.2	35.2	73.0
118	0.0	7.8	16.2#

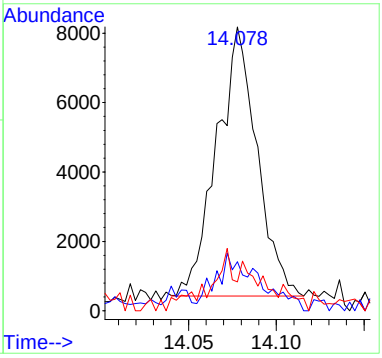


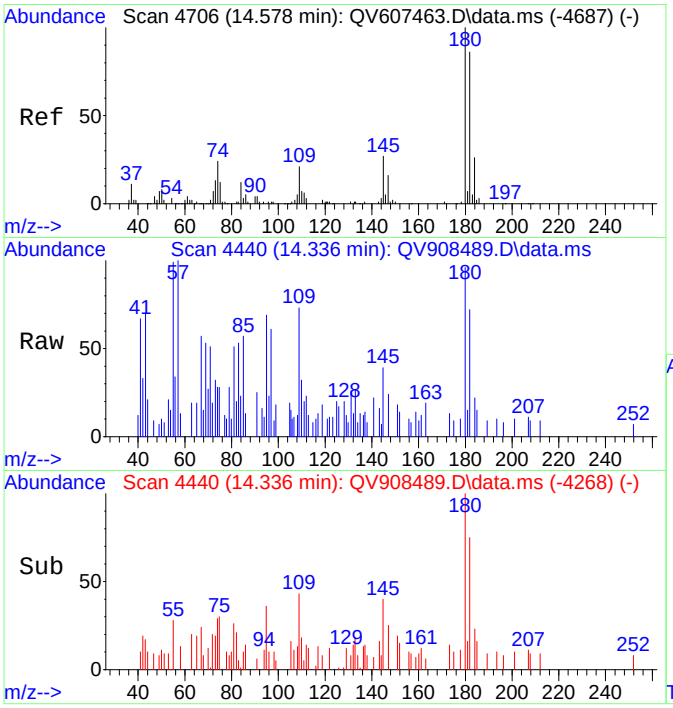


#93
Naphthalene
Concen: 0.59 ppb
RT: 14.078 min Scan# 4351
Delta R.T. 0.003 min
Lab File: QV908489.D
Acq: 4 Nov 2019 9:07 am

Tgt Ion:128 Resp: 12364

Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.0	18.6#
129	5.4	3.9	8.1

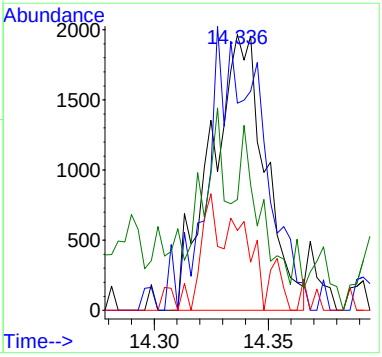




#94
1,2,3-Trichlorobenzene
Concen: 0.48 ppb
RT: 14.336 min Scan# 4440
Delta R.T. 0.000 min
Lab File: QV908489.D
Acq: 4 Nov 2019 9:07 am

Tgt Ion:180 Resp: 3237

Ion	Ratio	Lower	Upper
180	100		
182	0.0	61.8	128.4#
74	14.6	4.2	8.6#
145	30.6	20.9	43.3



LCS RAW DATA

SDG: 19J1295
CLASS: VOA
METHOD: EPA 8260C

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617214.D
Acq On : 31 Oct 2019 11:03 pm
InstName : MSVOA6
Operator : LLJ
Sample : BJ91821-BS1
Misc : QBQV6103119B
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 31 22:21:01 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.633	70	292709	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.663	117	1050196	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.623	152	388750	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.324	65	395339	9.75	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 97.50%				
53) Toluene-d8 (SURR)	7.172	98	1355354	9.81	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 98.10%				
73) p-Bromofluorobenzene (...	9.946	95	460701	9.81	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 98.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.354	85	219774	8.14	ppb	#	1
3) Chloromethane	1.546	50	331916	8.32	ppb	#	42
4) Vinyl Chloride	1.621	62	348735	8.77	ppb	#	48
5) Bromomethane	1.930	94	50227m	2.32	ppb		
6) Chloroethane	2.044	64	287442	11.61	ppb		90
7) Trichlorofluoromethane	2.308	101	604890	11.60	ppb		98
9) Freon-113	2.845	101	382564	11.36	ppb	#	69
10) 1,1-Dichloroethylene	2.818	61	604497	10.09	ppb		92
11) Acrolein	2.715	56	53061	19.92	ppb	#	83
12) Acetone	2.843	43	105427	8.80	ppb	#	95
13) Iodomethane	2.957	142	49872	1.25	ppb		98
14) Allyl Chloride	3.182	76	217455	10.78	ppb	#	100
15) Methyl Acetate	3.171	43	255767	10.40	ppb		99
16) Carbon disulfide	3.032	76	924958	9.92	ppb		100
17) tert-Butyl Alcohol (TBA)	3.410	59	189961	52.37	ppb	#	1
18) Methylene Chloride	3.310	49	620045	11.30	ppb		88
19) Acrylonitrile	3.513	53	120091	11.85	ppb	#	45
20) trans-1,2-Dichloroethy...	3.588	61	594613	10.38	ppb		98
21) tert-Butyl Methyl Ethe...	3.577	73	1076288	10.62	ppb	#	88
22) 1,1-Dichloroethane	3.997	63	803239	10.68	ppb		100
23) Vinyl Acetate	4.050	43	629083	9.62	ppb	#	100
24) Diisopropyl ether (DIPE)	4.047	45	1599225	10.96	ppb	#	98
25) Ethyl-tert-Butyl ether...	4.395	59	1397448	11.00	ppb	#	98
26) cis-1,2-Dichloroethylene	4.537	61	716996	10.53	ppb		97
27) 2-Butanone	4.512	72	41176	10.12	ppb	#	95
28) 2,2-Dichloropropane	4.543	77	675023	10.73	ppb	#	65
29) Tetrahydrofuran	4.771	42	106534	10.13	ppb	#	45
30) Bromochloromethane	4.760	49	377920	10.73	ppb		90
31) Chloroform	4.865	83	733734	10.46	ppb	#	84
32) 1,1,1-Trichloroethane	5.016	97	674943	10.32	ppb	#	82
33) Cyclohexane	5.096	56	649402	10.37	ppb		92
34) 1,1-Dichloropropylene	5.169	75	556272	9.88	ppb		91
36) Carbon Tetrachloride	5.171	117	574378	9.54	ppb	#	55
37) tert-Amyl alcohol (TAA)	5.366	59	321081	106.56	ppb	#	81
38) 1,2-Dichloroethane	5.400	62	516558	10.13	ppb	#	87
39) Benzene	5.347	78	1717830	11.74	ppb	#	68
40) tert-Amyl methyl ether...	5.483	73	1161083	11.35	ppb	#	100
42) Trichloroethylene	5.987	95	435211	9.94	ppb		98
43) Methyl Cyclohexane	6.220	83	420161	7.48	ppb	#	78
44) Methyl Methacrylate	6.282	69	242925	10.49	ppb	#	82
45) Dibromomethane	6.309	93	235194	10.29	ppb		99
46) Bromodichloromethane	6.485	83	555465	10.13	ppb		95
47) 1,2-Dichloropropane	6.226	63	450011	9.85	ppb	#	100
48) 1,4-Dioxane	6.293	88	59888	243.75	ppb	#	86
49) 2-nitropropane	6.663	43	105599	9.27	ppb	#	100
50) 2-Chloroethyl vinyl ether	6.755	63	197559	13.55	ppb	#	93
51) cis-1,3-Dichloropropene	6.910	75	690996	10.46	ppb		87
52) 4-Methyl-2-Pentanone	7.035	43	357692	7.00	ppb		93

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617214.D
Acq On : 31 Oct 2019 11:03 pm
InstName : MSVOA6
Operator : LLJ
Sample : BJ91821-BS1
Misc : QBQV6103119B
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 31 22:21:01 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration

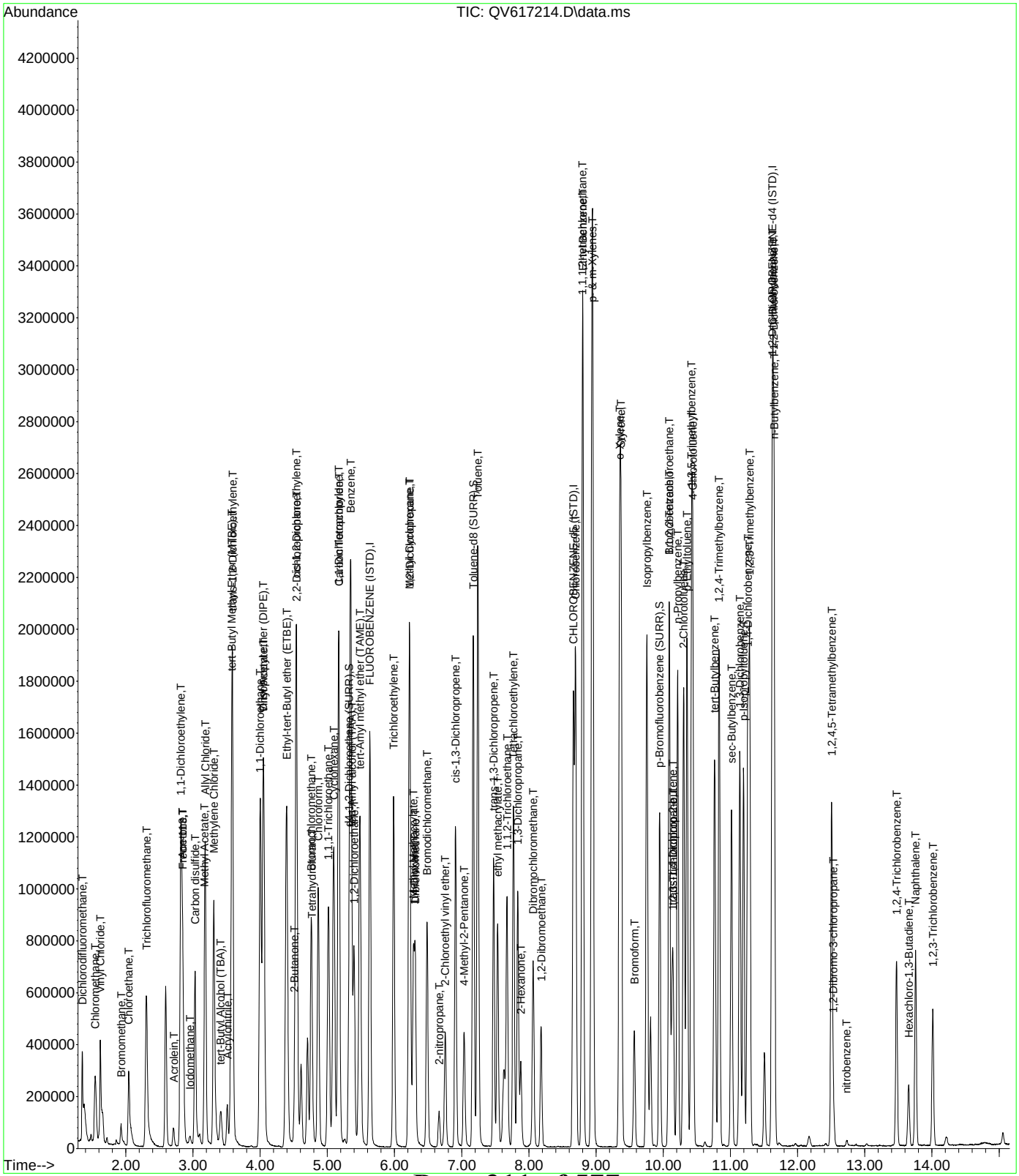
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Toluene	7.239	91	1758430	11.38	ppb		99
55) trans-1,3-Dichloropropene	7.475	75	583500	10.19	ppb		99
56) ethyl methacrylate	7.536	69	451381	10.03	ppb	#	100
57) 1,1,2-Trichloroethane	7.675	97	319782	10.37	ppb		94
58) 1,3-Dichloropropane	7.834	76	554713	10.72	ppb	#	85
59) Tetrachloroethylene	7.770	166	436937	9.29	ppb	#	77
60) 2-Hexanone	7.879	43	248018	9.98	ppb	#	29
61) Dibromochloromethane	8.062	129	409424	10.71	ppb		97
62) 1,2-Dibromoethane	8.185	107	333477	11.06	ppb		96
63) Chlorobenzene	8.694	112	1097940	10.85	ppb		94
64) 1,1,1,2-tetrachloroethane	8.797	131	418503	10.69	ppb		97
65) Ethyl Benzene	8.805	91	1799267	11.14	ppb		99
66) p- & m-Xylenes	8.947	91	2787435	19.34	ppb		98
67) o-Xylene	9.350	91	1425240	10.81	ppb		100
68) Styrene	9.373	104	1136325	10.70	ppb	#	77
69) Bromoform	9.570	173	236978	10.88	ppb		98
71) p-Ethyltoluene	10.355	105	1460489	11.93	ppb	#	68
72) Isopropylbenzene	9.757	105	1521000	10.23	ppb		98
74) 1,1,2,2-Tetrachloroethane	10.090	83	338555	10.68	ppb	#	98
75) Bromobenzene	10.090	77	668914	10.45	ppb		94
76) trans-1,4-Dichloro-2-b...	10.143	75	389014	10.77	ppb	#	55
77) 1,2,3-Trichloropropane	10.146	110	103947	11.02	ppb		64
78) n-Propylbenzene	10.216	91	1626207	10.18	ppb		99
79) 2-Chlorotoluene	10.302	91	1084194	9.99	ppb		98
80) 4-Chlorotoluene	10.441	91	1250733	10.19	ppb		98
81) 1,3,5-Trimethylbenzene	10.422	105	1174983	10.18	ppb	#	64
82) tert-Butylbenzene	10.764	119	899096	7.97	ppb		98
83) 1,2,4-Trimethylbenzene	10.830	105	1192080	10.10	ppb		99
84) sec-Butylbenzene	11.017	105	1071083	9.77	ppb		99
85) 1,3-Dichlorobenzene	11.142	146	740469	10.45	ppb		98
86) p-Isopropyltoluene	11.195	119	997639	9.72	ppb		99
87) 1,4-Dichlorobenzene	11.259	146	751780	10.45	ppb		99
88) 1,2,3-Trimethylbenzene	11.284	105	1251411	8.39	ppb		100
89) p-Diethylbenzene	11.626	105	494640	10.68	ppb	#	79
90) 1,2-Dichlorobenzene	11.646	146	681892	10.57	ppb	#	87
91) n-Butylbenzene	11.651	91	840024	9.17	ppb	#	77
93) 1,2-Dibromo-3-chloropr...	12.530	75	50394	8.97	ppb		92
94) 1,2,4,5-Tetramethylben...	12.508	119	823552	9.79	ppb		99
95) nitrobenzene	12.728	77	11092	8.36	ppb	#	100
96) 1,2,4-Trichlorobenzene	13.474	180	260452	9.16	ppb		97
97) Hexachloro-1,3-Butadiene	13.654	225	59121	10.17	ppb		98
98) Naphthalene	13.755	128	661989	9.01	ppb		99
99) 1,2,3-Trichlorobenzene	14.016	180	192576	8.57	ppb		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617214.D
Acq On : 31 Oct 2019 11:03 pm
InstName : MSVOA6
Operator : LLJ
Sample : BJ91821-BS1
Misc : QBQV6103119B
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 31 22:21:01 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617215.D
Acq On : 31 Oct 2019 11:29 pm
InstName : MSVOA6
Operator : LLJ
Sample : BJ91821-BSD1
Misc : QBQV6103119B
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 31 22:46:24 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.636	70	328815	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.663	117	1189526	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.624	152	448627	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.324	65	439306	9.65	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 96.50%				
53) Toluene-d8 (SURR)	7.172	98	1531343	9.79	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 97.90%				
73) p-Bromofluorobenzene (...	9.949	95	524866	9.69	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 96.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.354	85	349787m	11.53	ppb		
3) Chloromethane	1.543	50	322080	7.19	ppb	#	43
4) Vinyl Chloride	1.621	62	328280	7.35	ppb	#	48
5) Bromomethane	1.933	94	55125m	2.27	ppb		
6) Chloroethane	2.047	64	274630	9.87	ppb		90
7) Trichlorofluoromethane	2.309	101	570471	9.74	ppb		98
9) Freon-113	2.843	101	365663	9.66	ppb		99
10) 1,1-Dichloroethylene	2.820	61	578670	8.60	ppb		92
11) Acrolein	2.712	56	53163	17.76	ppb	#	82
12) Acetone	2.846	43	109454m	8.02	ppb		
13) Iodomethane	2.957	142	50254	1.12	ppb		97
14) Allyl Chloride	3.185	76	203482	8.98	ppb	#	100
15) Methyl Acetate	3.174	43	259135	9.38	ppb		99
16) Carbon disulfide	3.032	76	882100	8.42	ppb		100
17) tert-Butyl Alcohol (TBA)	3.416	59	188907	46.17	ppb	#	1
18) Methylene Chloride	3.313	49	613027	9.94	ppb		87
19) Acrylonitrile	3.513	53	118150	10.38	ppb	#	71
20) trans-1,2-Dichloroethy...	3.588	61	564549	8.77	ppb		97
21) tert-Butyl Methyl Ethe...	3.577	73	1077441	9.46	ppb	#	99
22) 1,1-Dichloroethane	4.000	63	779853	9.23	ppb	#	97
23) Vinyl Acetate	4.050	43	637201	8.67	ppb	#	100
24) Diisopropyl ether (DIPE)	4.047	45	1594138	9.72	ppb	#	98
25) Ethyl-tert-Butyl ether...	4.392	59	1404946	9.84	ppb	#	98
26) cis-1,2-Dichloroethylene	4.540	61	696125	9.10	ppb		97
27) 2-Butanone	4.515	72	41569	8.86	ppb	#	95
28) 2,2-Dichloropropane	4.545	77	641196	9.07	ppb		90
29) Tetrahydrofuran	4.774	42	104191	8.82	ppb	#	42
30) Bromochloromethane	4.760	49	376409	9.51	ppb		90
31) Chloroform	4.865	83	715546	9.08	ppb	#	96
32) 1,1,1-Trichloroethane	5.018	97	651351	8.86	ppb		97
33) Cyclohexane	5.094	56	625075	8.89	ppb		92
34) 1,1-Dichloropropylene	5.169	75	525931	8.31	ppb		90
36) Carbon Tetrachloride	5.171	117	549899	8.13	ppb	#	54
37) tert-Amyl alcohol (TAA)	5.363	59	319569	94.41	ppb		95
38) 1,2-Dichloroethane	5.400	62	520997	9.10	ppb		99
39) Benzene	5.347	78	1687301	10.27	ppb	#	67
40) tert-Amyl methyl ether...	5.483	73	1156130	10.06	ppb	#	100
42) Trichloroethylene	5.989	95	415869	8.38	ppb		99
43) Methyl Cyclohexane	6.220	83	408475	6.42	ppb	#	78
44) Methyl Methacrylate	6.282	69	243466	9.28	ppb		87
45) Dibromomethane	6.309	93	234911	9.08	ppb		99
46) Bromodichloromethane	6.487	83	547570	8.82	ppb		95
47) 1,2-Dichloropropane	6.229	63	452660	8.75	ppb	#	100
48) 1,4-Dioxane	6.290	88	59567	214.04	ppb	#	81
49) 2-nitropropane	6.666	43	104896	8.13	ppb	#	100
50) 2-Chloroethyl vinyl ether	6.757	63	198439	12.02	ppb	#	92
51) cis-1,3-Dichloropropene	6.908	75	681727	9.11	ppb		87
52) 4-Methyl-2-Pentanone	7.036	43	357394	6.18	ppb		94

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617215.D
Acq On : 31 Oct 2019 11:29 pm
InstName : MSVOA6
Operator : LLJ
Sample : BJ91821-BSD1
Misc : QBQV6103119B
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 31 22:46:24 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration

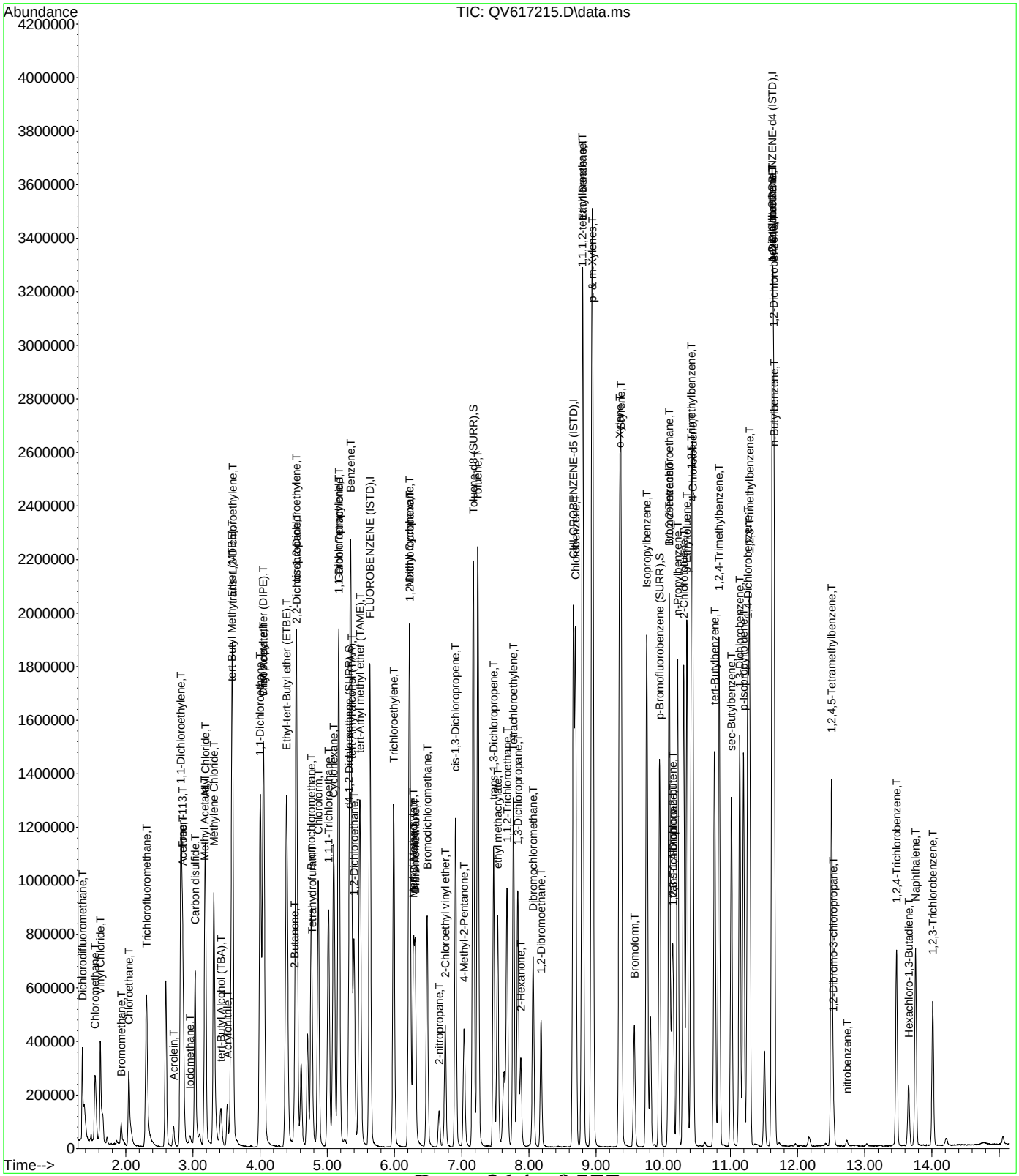
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Toluene	7.239	91	1705859	9.74	ppb		99
55) trans-1,3-Dichloropropene	7.475	75	580558	8.95	ppb		99
56) ethyl methacrylate	7.536	69	453090	8.89	ppb	#	100
57) 1,1,2-Trichloroethane	7.675	97	320795	9.18	ppb		94
58) 1,3-Dichloropropane	7.837	76	549717	9.38	ppb		93
59) Tetrachloroethylene	7.770	166	422023	7.92	ppb	#	100
60) 2-Hexanone	7.881	43	246043	8.74	ppb	#	28
61) Dibromochloromethane	8.065	129	407778	9.42	ppb		97
62) 1,2-Dibromoethane	8.182	107	329925	9.66	ppb		95
63) Chlorobenzene	8.694	112	1077742	9.40	ppb		94
64) 1,1,1,2-tetrachloroethane	8.797	131	413953	9.34	ppb		98
65) Ethyl Benzene	8.802	91	1768349	9.67	ppb		99
66) p- & m-Xylenes	8.944	91	2729340	16.55	ppb		98
67) o-Xylene	9.350	91	1408988	9.43	ppb		100
68) Styrene	9.373	104	1133337	9.42	ppb		98
69) Bromoform	9.570	173	235190	9.53	ppb	#	80
71) p-Ethyltoluene	10.352	105	1421291m	10.06	ppb		
72) Isopropylbenzene	9.754	105	1497973	8.73	ppb		99
74) 1,1,2,2-Tetrachloroethane	10.090	83	340743	9.32	ppb	#	69
75) Bromobenzene	10.090	77	663636	8.98	ppb		95
76) trans-1,4-Dichloro-2-b...	10.143	75	387609	9.30	ppb	#	55
77) 1,2,3-Trichloropropane	10.146	110	103874	9.54	ppb		63
78) n-Propylbenzene	10.213	91	1612148	8.75	ppb		99
79) 2-Chlorotoluene	10.305	91	1078683	8.61	ppb		98
80) 4-Chlorotoluene	10.441	91	1227038	8.66	ppb		98
81) 1,3,5-Trimethylbenzene	10.422	105	1173722	8.81	ppb	#	65
82) tert-Butylbenzene	10.767	119	897591	6.90	ppb		98
83) 1,2,4-Trimethylbenzene	10.831	105	1187133	8.72	ppb		99
84) sec-Butylbenzene	11.014	105	1064911	8.42	ppb		98
85) 1,3-Dichlorobenzene	11.139	146	735956	9.00	ppb		99
86) p-Isopropyltoluene	11.198	119	994785	8.40	ppb		99
87) 1,4-Dichlorobenzene	11.259	146	748496	9.01	ppb		99
88) 1,2,3-Trimethylbenzene	11.284	105	1256467	7.30	ppb		100
89) p-Diethylbenzene	11.624	105	499573	9.35	ppb	#	80
90) 1,2-Dichlorobenzene	11.646	146	685315	9.21	ppb	#	88
91) n-Butylbenzene	11.651	91	840196	7.94	ppb	#	77
92) hexachloroethane	11.624	117	174480	7.92	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	12.531	75	51371m	7.92	ppb		
94) 1,2,4,5-Tetramethylben...	12.505	119	839053	8.64	ppb		99
95) nitrobenzene	12.736	77	10756	7.03	ppb	#	100
96) 1,2,4-Trichlorobenzene	13.474	180	267805	8.17	ppb		97
97) Hexachloro-1,3-Butadiene	13.655	225	57995	8.65	ppb		98
98) Naphthalene	13.755	128	662644	7.61	ppb		98
99) 1,2,3-Trichlorobenzene	14.013	180	193637	7.47	ppb		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\103119A\
Data File : QV617215.D
Acq On : 31 Oct 2019 11:29 pm
InstName : MSVOA6
Operator : LLJ
Sample : BJ91821-BSD1
Misc : QBQV6103119B
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 31 22:46:24 2019
Quant Method : C:\msdchem\2\METHODS\VQ6LO061.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Oct 08 20:39:16 2019
Response via : Initial Calibration



LCS RAW DATA

SDG: 19J1295
CLASS: VOA
METHOD: EPA 8260C

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908486.D
Acq On : 4 Nov 2019 7:45 am
Operator : LLJ
Sample : BJ91944-BS1
Misc : QBQV9102519A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 11:10:28 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.863	70	283510	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	8.920	117	1043957	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.913	152	244741	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.546	65	283040	10.01	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 100.10%				
51) Toluene-d8 (SURR)	7.414	98	1451496	9.84	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 98.40%				
70) p-Bromofluorobenzene (...	10.216	95	487024	10.53	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 105.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.602	85	427475	14.48	ppb	#	1
3) Chloromethane	1.785	50	65848	7.26	ppb		92
4) Vinyl Chloride	1.890	62	329644	11.56	ppb	#	98
5) Bromomethane	2.221	94	66260	12.11	ppb		99
6) Chloroethane	2.332	64	133935	8.90	ppb	#	19
7) Trichlorofluoromethane	2.593	101	435679	11.95	ppb	#	19
9) Freon-113	3.116	101	246366	10.84	ppb	#	1
10) 1,1-Dichloroethylene	3.096	61	401264	9.47	ppb	#	82
11) Acrolein	2.965	56	13108	8.80	ppb	#	1
12) Acetone	3.099	43	30050	7.32	ppb	#	1
13) Iodomethane	3.241	142	92618	6.84	ppb	#	70
14) Methyl Acetate	3.416	43	59746	8.24	ppb	#	1
15) Carbon disulfide	3.334	76	577150	8.31	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.625	59	51634m	38.40	ppb		
17) Methylene Chloride	3.558	49	271010	8.71	ppb	#	78
18) Acrylonitrile	3.823	53	6921m	12.09	ppb		
19) trans-1,2-Dichloroethy...	3.843	61	377979	9.46	ppb	#	84
20) tert-Butyl Methyl Ethe...	3.825	73	523454	9.19	ppb	#	95
21) 1,1-Dichloroethane	4.235	63	623658	12.20	ppb	#	99
22) Vinyl Acetate	4.224	43	316964	13.78	ppb	#	1
23) Diisopropyl ether (DIPE)	4.279	45	966608	11.23	ppb	#	53
24) Ethyl-tert-Butyl ether...	4.616	59	976964	11.20	ppb	#	97
25) cis-1,2-Dichloroethylene	4.767	61	574222	11.99	ppb	#	80
26) 2-Butanone	4.723	72	15084	9.73	ppb	#	1
27) 2,2-Dichloropropane	4.782	77	552748	12.29	ppb	#	83
28) Tetrahydrofuran	5.014	42	32804	11.22	ppb	#	1
29) Bromochloromethane	4.988	49	223563	13.07	ppb	#	51
30) Chloroform	5.078	83	609505	12.03	ppb	#	85
31) 1,1,1-Trichloroethane	5.261	97	591885	12.40	ppb	#	55
32) Cyclohexane	5.360	56	612147	5.45	ppb	#	74
33) 1,1-Dichloropropylene	5.412	75	469622	11.85	ppb	#	59
35) Carbon Tetrachloride	5.424	117	455624	11.76	ppb	#	99
36) tert-Amyl alcohol (TAA)	5.543	59	104701	115.25	ppb	#	1
37) 1,2-Dichloroethane	5.621	62	376572	11.92	ppb	#	100
38) Benzene	5.592	78	1392615	12.10	ppb	#	96
39) tert-Amyl methyl ether...	5.711	73	721816	10.93	ppb	#	1
41) Trichloroethylene	6.220	95	350514	10.76	ppb	#	74
42) Methyl Cyclohexane	6.476	83	585718	11.41	ppb	#	51
43) Methyl Methacrylate	6.482	69	232078	11.20	ppb	#	98
44) Dibromomethane	6.540	93	130763	10.95	ppb	#	89
45) Bromodichloromethane	6.702	83	413341	10.90	ppb	#	97
46) 1,2-Dichloropropane	6.455	63	323486	10.65	ppb	#	91
47) 1,4-Dioxane	6.516	88	15926	324.77	ppb		93
49) cis-1,3-Dichloropropene	7.130	75	453623	10.31	ppb	#	61
50) 4-Methyl-2-Pentanone	7.243	43	122515	10.51	ppb	#	58
52) Toluene	7.481	91	1516671	11.20	ppb		99
53) trans-1,3-Dichloropropene	7.690	75	342182	10.28	ppb	#	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908486.D
Acq On : 4 Nov 2019 7:45 am
Operator : LLJ
Sample : BJ91944-BS1
Misc : QBQV9102519A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 11:10:28 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

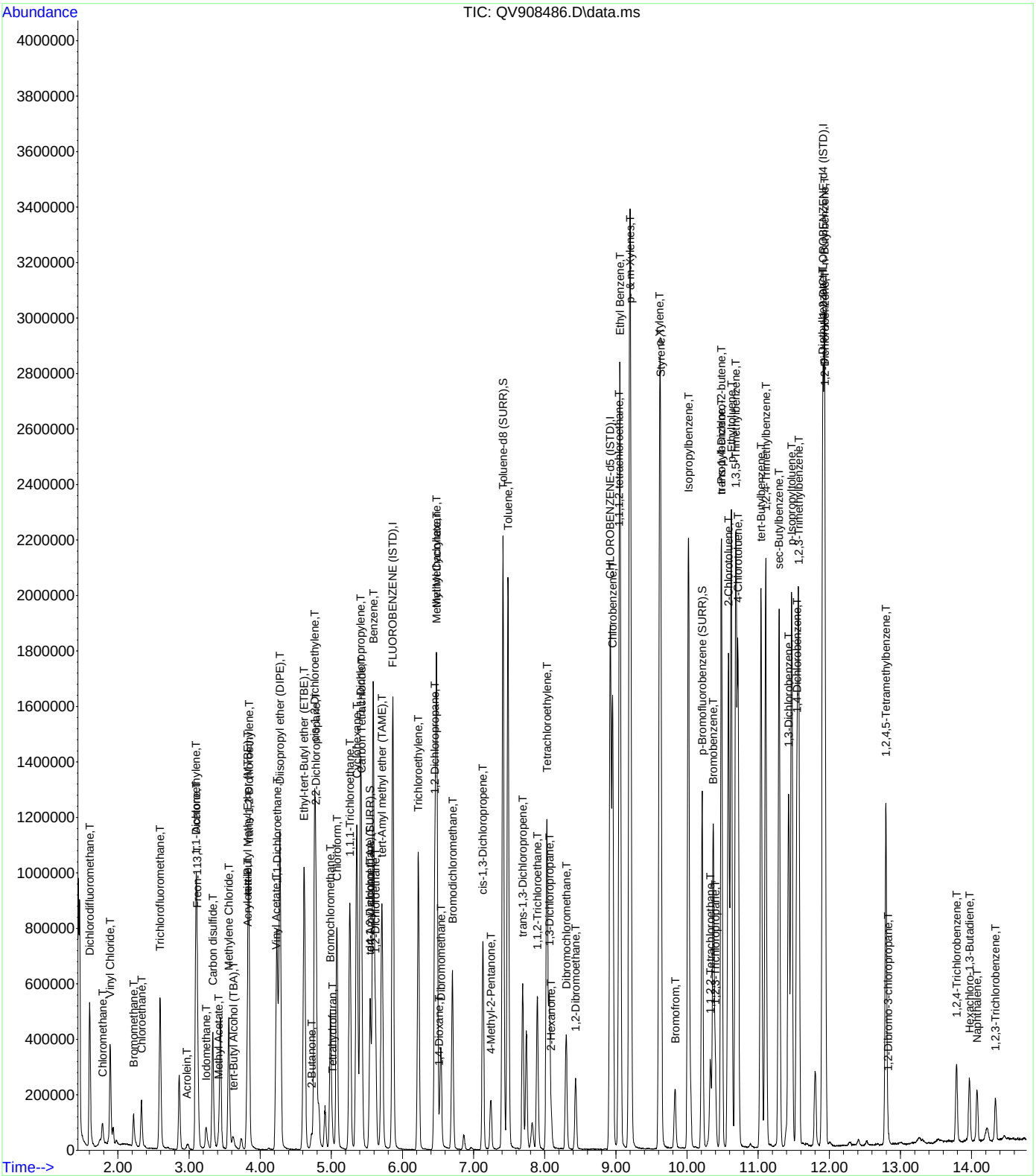
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	7.894	97	175321	10.13	ppb	#	1
55) 1,3-Dichloropropane	8.065	76	327399	10.75	ppb	#	96
56) Tetrachloroethylene	8.030	166	332704	9.75	ppb	#	100
57) 2-Hexanone	8.089	43	78027	9.87	ppb	#	1
58) Dibromochloromethane	8.304	129	221499	10.70	ppb	#	84
59) 1,2-Dibromoethane	8.434	107	169860	10.96	ppb		93
60) Chlorobenzene	8.955	112	878246	10.84	ppb	#	86
61) 1,1,1,2-tetrachloroethane	9.045	131	285869	10.70	ppb	#	49
62) Ethyl Benzene	9.059	91	1731061	11.55	ppb		96
63) p- & m-Xylenes	9.199	91	2728414	23.33	ppb		93
64) o-Xylene	9.614	91	1363315	11.10	ppb		96
65) Styrene	9.629	104	929203	10.78	ppb	#	82
66) Bromofrom	9.835	173	102490	10.26	ppb	#	96
68) p-Ethyltoluene	10.623	105	1563810	14.06	ppb	#	97
69) Isopropylbenzene	10.018	105	1624393	12.02	ppb	#	90
71) 1,1,2,2-Tetrachloroethane	10.329	83	168330	11.76	ppb	#	97
72) Bromobenzene	10.367	77	567789	11.65	ppb	#	73
73) trans-1,4-Dichloro-2-b...	10.483	75	11721	11.43	ppb	#	1
74) 1,2,3-Trichloropropane	10.399	110	51156	12.02	ppb	#	1
75) n-Propylbenzene	10.483	91	1882906	12.27	ppb	#	89
76) 2-Chlorotoluene	10.582	91	1135712	11.70	ppb		98
77) 4-Chlorotoluene	10.716	91	1252012	11.62	ppb		95
78) 1,3,5-Trimethylbenzene	10.684	105	1315554	11.86	ppb	#	61
79) tert-Butylbenzene	11.041	119	1055212	10.33	ppb	#	88
80) 1,2,4-Trimethylbenzene	11.108	105	1263162	11.78	ppb		93
81) sec-Butylbenzene	11.291	105	1500005	12.23	ppb	#	91
82) 1,3-Dichlorobenzene	11.428	146	522411	11.14	ppb	#	91
83) p-Isopropyltoluene	11.468	119	1261640	11.74	ppb		93
84) 1,4-Dichlorobenzene	11.544	146	501766	11.17	ppb		89
85) 1,2,3-Trimethylbenzene	11.570	105	1162441	11.78	ppb	#	91
86) p-Diethylbenzene	11.907	105	665239	13.32	ppb	#	62
87) 1,2-Dichlorobenzene	11.939	146	396515	10.98	ppb	#	100
88) n-Butylbenzene	11.933	91	1137110m	11.31	ppb		
89) 1,2-Dibromo-3-chloropr...	12.825	75	22389	10.07	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.796	119	723501	10.17	ppb	#	87
91) 1,2,4-Trichlorobenzene	13.790	180	87964	7.02	ppb	#	7
92) Hexachloro-1,3-Butadiene	13.970	225	47501	6.47	ppb	#	62
93) Naphthalene	14.075	128	154004	7.53	ppb	#	95
94) 1,2,3-Trichlorobenzene	14.333	180	46902	7.12	ppb	#	91

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908486.D
Acq On : 4 Nov 2019 7:45 am
Operator : LLJ
Sample : BJ91944-BS1
Misc : QBQV9102519A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 04 11:10:28 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908487.D
Acq On : 4 Nov 2019 8:12 am
Operator : LLJ
Sample : BJ91944-BSD1
Misc : QBQV9102519A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 11:12:07 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.866	70	284455	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.920	117	1058305	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.916	152	264151	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.549	65	280272	9.88	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 98.80%				
51) Toluene-d8 (SURR)	7.415	98	1458115	9.75	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 97.50%				
70) p-Bromofluorobenzene (...	10.210	95	510650	10.23	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 102.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.605	85	442255	14.93	ppb	#	1
3) Chloromethane	1.783	50	67240	7.38	ppb		92
4) Vinyl Chloride	1.890	62	329058	11.50	ppb	#	98
5) Bromomethane	2.216	94	54342	10.03	ppb		97
6) Chloroethane	2.332	64	146235	9.69	ppb	#	19
7) Trichlorofluoromethane	2.594	101	420677	11.50	ppb	#	19
9) Freon-113	3.117	101	279571	12.26	ppb	#	1
10) 1,1-Dichloroethylene	3.099	61	431022	10.14	ppb	#	81
11) Acrolein	2.983	56	12137m	8.12	ppb		
12) Acetone	3.096	43	28964	7.03	ppb	#	1
13) Iodomethane	3.239	142	120341	8.81	ppb	#	71
14) Methyl Acetate	3.413	43	82985	11.41	ppb	#	1
15) Carbon disulfide	3.335	76	799456	11.48	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.622	59	59521	44.12	ppb	#	1
17) Methylene Chloride	3.558	49	378417	12.12	ppb	#	80
18) Acrylonitrile	3.826	53	5336	9.29	ppb	#	1
19) trans-1,2-Dichloroethy...	3.840	61	498094	12.43	ppb	#	85
20) tert-Butyl Methyl Ethe...	3.829	73	632056	11.06	ppb	#	95
21) 1,1-Dichloroethane	4.235	63	621360	12.12	ppb	#	99
22) Vinyl Acetate	4.221	43	304406	13.19	ppb	#	1
23) Diisopropyl ether (DIPE)	4.279	45	959269	11.11	ppb	#	52
24) Ethyl-tert-Butyl ether...	4.619	59	965947	11.04	ppb	#	97
25) cis-1,2-Dichloroethylene	4.767	61	568715	11.84	ppb	#	80
26) 2-Butanone	4.724	72	13853	8.91	ppb	#	1
27) 2,2-Dichloropropane	4.782	77	556702	12.34	ppb	#	88
28) Tetrahydrofuran	5.011	42	29914	10.20	ppb	#	1
29) Bromochloromethane	4.988	49	203702	11.87	ppb	#	52
30) Chloroform	5.078	83	613183	12.06	ppb	#	85
31) 1,1,1-Trichloroethane	5.261	97	602460	12.58	ppb	#	55
32) Cyclohexane	5.357	56	639933	5.67	ppb	#	73
33) 1,1-Dichloropropylene	5.409	75	478011	12.02	ppb	#	59
35) Carbon Tetrachloride	5.424	117	471925	12.14	ppb	#	99
36) tert-Amyl alcohol (TAA)	5.546	59	101302	111.14	ppb	#	1
37) 1,2-Dichloroethane	5.622	62	370971	11.70	ppb	#	100
38) Benzene	5.590	78	1404244	12.16	ppb	#	95
39) tert-Amyl methyl ether...	5.712	73	713088	10.76	ppb	#	1
41) Trichloroethylene	6.223	95	359318	10.88	ppb	#	73
42) Methyl Cyclohexane	6.482	83	601389	11.56	ppb	#	52
43) Methyl Methacrylate	6.482	69	234605	11.17	ppb	#	98
44) Dibromomethane	6.540	93	125414	10.36	ppb	#	49
45) Bromodichloromethane	6.703	83	413696	10.76	ppb	#	97
46) 1,2-Dichloropropane	6.458	63	318745	10.36	ppb	#	93
47) 1,4-Dioxane	6.528	88	15335m	308.48	ppb		
49) cis-1,3-Dichloropropene	7.130	75	448149	10.05	ppb	#	56
50) 4-Methyl-2-Pentanone	7.243	43	115918	9.81	ppb	#	57
52) Toluene	7.481	91	1518996	11.07	ppb		99
53) trans-1,3-Dichloropropene	7.691	75	331950	9.84	ppb	#	88

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908487.D
Acq On : 4 Nov 2019 8:12 am
Operator : LLJ
Sample : BJ91944-BSD1
Misc : QBQV9102519A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 11:12:07 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

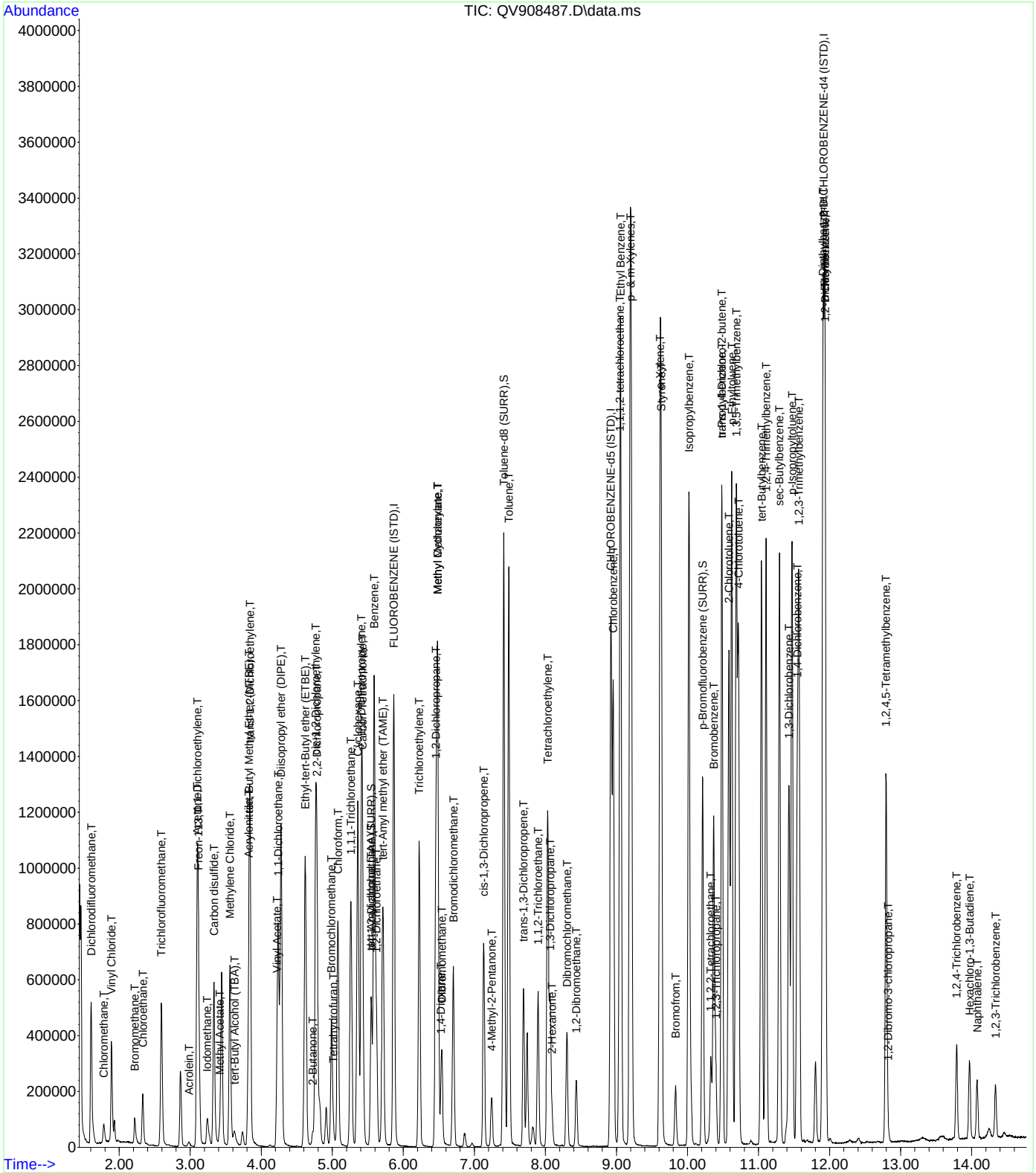
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	7.897	97	176526	10.06	ppb	#	1
55) 1,3-Dichloropropane	8.065	76	318766	10.33	ppb	#	98
56) Tetrachloroethylene	8.031	166	337677	9.76	ppb	#	100
57) 2-Hexanone	8.092	43	74734	9.32	ppb	#	1
58) Dibromochloromethane	8.304	129	217098	10.35	ppb	#	85
59) 1,2-Dibromoethane	8.434	107	162277	10.33	ppb		92
60) Chlorobenzene	8.955	112	884954	10.78	ppb	#	85
61) 1,1,1,2-tetrachloroethane	9.048	131	286415	10.58	ppb	#	44
62) Ethyl Benzene	9.059	91	1782727	11.73	ppb		95
63) p- & m-Xylenes	9.196	91	2774190	23.40	ppb		93
64) o-Xylene	9.611	91	1382663	11.11	ppb		96
65) Styrene	9.632	104	941589	10.77	ppb	#	82
66) Bromofrom	9.832	173	96928	9.57	ppb	#	81
68) p-Ethyltoluene	10.623	105	1583318	13.19	ppb	#	97
69) Isopropylbenzene	10.021	105	1676404	11.49	ppb	#	90
71) 1,1,2,2-Tetrachloroethane	10.326	83	165022	10.69	ppb	#	65
72) Bromobenzene	10.370	77	563621	10.72	ppb	#	73
73) trans-1,4-Dichloro-2-b...	10.483	75	13192	11.92	ppb	#	1
74) 1,2,3-Trichloropropane	10.402	110	50287	10.95	ppb	#	1
75) n-Propylbenzene	10.483	91	1959544	11.84	ppb	#	89
76) 2-Chlorotoluene	10.582	91	1157813	11.05	ppb		98
77) 4-Chlorotoluene	10.719	91	1306928	11.24	ppb		95
78) 1,3,5-Trimethylbenzene	10.687	105	1372726	11.47	ppb	#	61
79) tert-Butylbenzene	11.044	119	1120874	10.17	ppb	#	89
80) 1,2,4-Trimethylbenzene	11.105	105	1311254	11.33	ppb		93
81) sec-Butylbenzene	11.294	105	1603703	12.11	ppb	#	91
82) 1,3-Dichlorobenzene	11.428	146	547798	10.82	ppb		91
83) p-Isopropyltoluene	11.471	119	1357340	11.70	ppb		93
84) 1,4-Dichlorobenzene	11.547	146	498163m	10.28	ppb		
85) 1,2,3-Trimethylbenzene	11.567	105	1184726	11.13	ppb	#	90
86) p-Diethylbenzene	11.907	105	739895	13.73	ppb	#	64
87) 1,2-Dichlorobenzene	11.939	146	408881	10.49	ppb	#	100
88) n-Butylbenzene	11.933	91	1281763m	11.81	ppb		
89) 1,2-Dibromo-3-chloropr...	12.823	75	23230	9.68	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.793	119	792564	10.32	ppb	#	87
91) 1,2,4-Trichlorobenzene	13.787	180	104785	7.75	ppb	#	11
92) Hexachloro-1,3-Butadiene	13.970	225	60680	7.66	ppb	#	65
93) Naphthalene	14.078	128	168824	7.65	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.337	180	59240	8.33	ppb	#	90

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110419A\
Data File : QV908487.D
Acq On : 4 Nov 2019 8:12 am
Operator : LLJ
Sample : BJ91944-BSD1
Misc : QBQV9102519A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 11:12:07 2019
Quant Method : C:\msdchem\1\methods\VQ9LO018.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Oct 16 12:02:15 2019
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



BENCHSHEETS

SDG: 19J1295

CLASS: VOA

METHOD: EPA 8260C

PREPARATION BENCH SHEET-AQUEOUS: BJ91821

Prepared: **10/30/2019 06:14**

York Analytical Laboratories, Inc.

Printed: 11/7/2019 12:45:48PM

Matrix: Water **Preparation EPA 5030B** **Surrogate used: Y17H091** **1** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
19J1295-01 B	Volatile Organics, 8	25	25										
19J1295-02 B	Volatile Organics, 8	25	25										
19J1295-03 B	Volatile Organics, 8	25	25										
19J1295-04 B	Volatile Organics, 8	25	25										
19J1295-05 B	Volatile Organics, 8	25	25										
19J1309-01 B	Volatile Organics, 8	25	25										
19J1309-02 B	Volatile Organics, 8	25	25										
19J1309-03 B	Volatile Organics, 8	25	25										
19J1309-04 A	Volatile Organics, 8	25	25										
19J1315-05 A	Volatile Organics, 1	25	25										
19J1323-01 B	Volatile Organics, 8	5	5										
19J1323-02 A	Volatile Organics, 8	5	5										
BJ91821-BLK1	QC	25	25										
BJ91821-BS1	QC	25	25	Y19J275	5								
BJ91821-BSD1	QC	25	25	Y19J275	5								

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number
Y18B221	Antifoam B Silicone Emulsion	0000171560			

Preparation Performed by **TMP** **Date:** **10/31/2019 06:14**

BENCHSHEETS

SDG: 19J1295

CLASS: VOA

METHOD: EPA 8260C

PREPARATION BENCH SHEET-AQUEOUS: BJ91944

Prepared: **10/30/2019 06:14**

York Analytical Laboratories, Inc.

Printed: 11/7/2019 12:47:12PM

Matrix: Water **Preparation EPA 5030B** **Surrogate used: Y17H086** **1** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
19J1212-05 C	Volatile Organics, (	25	25							<2	NA		
19J1217-03RE1 B	Volatile Organics, I	25	25							<2	NA		From BJ91942 by TMP on 11/04/2019
19J1288-06RE1 B	Volatile Organics, (	25	25							<2	NA		From BJ91942 by TMP on 11/04/2019
19J1295-01RE1 B	Volatile Organics, {	25	25							<2	NA		From BJ91821 by TMP on 11/04/2019
19J1295-01RE2 B	Volatile Organics, {	25	25							<2	NA		Added 11/4/2019 by TMP
19J1295-04RE1 B	Volatile Organics, {	25	25							<2	NA		From BJ91821 by TMP on 11/04/2019
19J1295-04RE2 B	Volatile Organics, {	25	25							<2	NA		Added 11/4/2019 by TMP
19J1305-01 C	Volatile Organics, (	25	25							<2	NA		
19J1368-02 C	Volatile Organics, 1	25	25							<2	NA		
19J1368-02 C	VOA, 8260 NJ DK	25	25							<2	NA		
19J1368-03 C	Volatile Organics, 1	25	25							<2	NA		
19J1368-03 C	VOA, 8260 NJ DK	25	25							<2	NA		
19J1368-04 C	VOA, 8260 NJ DK	25	25							<2	NA		
19J1368-04 C	Volatile Organics, 1	25	25							<2	NA		
19J1368-06RE1 B	VOA, 8260 NJ DK	25	25							<2	NA		From BJ91942 by TMP on 11/06/2019
19J1384-01 K	Volatile Organics, N	25	25							<2	NA		
BJ91944-BLK1	QC	25	25										
BJ91944-BS1	QC	25	25	Y19J275	5								
BJ91944-BSD1	QC	25	25	Y19J275	5								

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparation Performed by TMP **Date:** 11/04/2019 06:27

York Analytical Laboratories, Inc.
SDG: 19J1295
CLASS: METALS
METHOD: EPA 6020B

DATA PACKAGE COVER PAGE

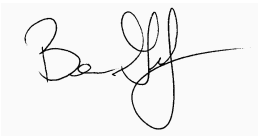
EPA 6020B

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Client Sample Id:	Lab Sample Id:
KC-MW-01 1019	19J1295-01
KC-MW-02 1019	19J1295-02
KC-MW-05 1019	19J1295-03
KC-MW-DUP 1019	19J1295-04
KC-MW-DUP 1019	19J1295-04RE1

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:  Name: Benjamin Gulizia

Date: 11/8/2019 Title: Laboratory Director

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 6020B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BJ91907	Laboratory ID:	BJ91907-BS1
Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Antimony	50.0	43.3	86.6	80 - 120
Arsenic	50.0	49.0	98.1	80 - 120
Beryllium	50.0	45.5	91.0	80 - 120
Cadmium	50.0	44.7	89.4	80 - 120
Chromium	50.0	49.3	98.5	80 - 120
Copper	50.0	50.1	100	80 - 120
Lead	50.0	48.5	96.9	80 - 120
Nickel	50.0	49.2	98.5	80 - 120
Selenium	50.0	46.2	92.3	80 - 120
Silver	50.0	44.9	89.8	80 - 120
Thallium	50.0	48.0	96.0	80 - 120
Zinc	50.0	46.3	92.6	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Batch: BJ91907 Batch Matrix: Water Preparation: EPA 3015A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 1019	19J1295-01	QBIMX110519B-019	10/31/19 12:05	
KC-MW-02 1019	19J1295-02	QBIMX110519B-020	10/31/19 12:05	
KC-MW-05 1019	19J1295-03	QBIMX110519B-021	10/31/19 12:05	
KC-MW-DUP 1019	19J1295-04	QBIMX110519B-022	10/31/19 12:05	
KC-MW-DUP 1019	19J1295-04RE1	QBIMX110619A-016	10/31/19 12:05	Added 11/6/2019 by BML
Blank	BJ91907-BLK1	QBIMX110519B-016	10/31/19 12:05	
LCS	BJ91907-BS1	QBIMX110519B-017	10/31/19 12:05	

FORM I **BLANKS**

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: Nexion2000C Project: 41103.00 KINGSTON CVS

Sequence: Y9K0534 Calibration: 11/05/19 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y9K0534-ICB1	Antimony	0.038	1.00	ug/L		EPA 6020B
	Arsenic	-0.009	1.00	ug/L		EPA 6020B
	Beryllium	0.008	0.300	ug/L		EPA 6020B
	Cadmium	0.004	0.500	ug/L		EPA 6020B
	Chromium	0.034	1.00	ug/L		EPA 6020B
	Copper	0.017	1.00	ug/L		EPA 6020B
	Lead	0.008	1.00	ug/L		EPA 6020B
	Nickel	0.027	1.00	ug/L		EPA 6020B
	Selenium	-0.491	1.00	ug/L		EPA 6020B
	Silver	0.004	1.00	ug/L		EPA 6020B
	Thallium	0.141	1.00	ug/L		EPA 6020B
	Zinc	0.192	1.00	ug/L		EPA 6020B
Y9K0534-CCB1	Antimony	0.040	1.00	ug/L		EPA 6020B
	Arsenic	0.006	1.00	ug/L		EPA 6020B
	Beryllium	0.005	0.300	ug/L		EPA 6020B
	Cadmium	0.005	0.500	ug/L		EPA 6020B
	Chromium	0.071	1.00	ug/L		EPA 6020B
	Copper	0.020	1.00	ug/L		EPA 6020B
	Lead	0.008	1.00	ug/L		EPA 6020B
	Nickel	0.026	1.00	ug/L		EPA 6020B
	Selenium	1.03	1.00	ug/L	*	EPA 6020B
	Silver	0.005	1.00	ug/L		EPA 6020B
	Thallium	0.130	1.00	ug/L		EPA 6020B
	Zinc	0.312	1.00	ug/L		EPA 6020B
Y9K0534-CCB2	Antimony	0.048	1.00	ug/L		EPA 6020B
	Arsenic	-0.017	1.00	ug/L		EPA 6020B
	Beryllium	0.010	0.300	ug/L		EPA 6020B
	Cadmium	0.008	0.500	ug/L		EPA 6020B
	Chromium	0.044	1.00	ug/L		EPA 6020B
	Copper	0.021	1.00	ug/L		EPA 6020B
	Lead	0.011	1.00	ug/L		EPA 6020B
	Nickel	0.026	1.00	ug/L		EPA 6020B
	Selenium	0.042	1.00	ug/L		EPA 6020B

FORM I **BLANKS**

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: Nexion2000C Project: 41103.00 KINGSTON CVS

Sequence: Y9K0534 Calibration: 11/05/19 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y9K0534-CCB2	Silver	0.006	1.00	ug/L		EPA 6020B
	Thallium	0.135	1.00	ug/L		EPA 6020B
	Zinc	0.161	1.00	ug/L		EPA 6020B
BJ91907-BLK1	Antimony	-0.070	1.11	ug/L		EPA 6020B
	Arsenic	-0.023	1.11	ug/L		EPA 6020B
	Beryllium	-0.0002	0.333	ug/L		EPA 6020B
	Cadmium	0.010	0.556	ug/L		EPA 6020B
	Chromium	-0.454	1.11	ug/L		EPA 6020B
	Copper	0.098	1.11	ug/L		EPA 6020B
	Lead	-0.009	1.11	ug/L		EPA 6020B
	Nickel	-0.077	1.11	ug/L		EPA 6020B
	Selenium	-1.84	1.11	ug/L		EPA 6020B
	Silver	0.00007	1.11	ug/L		EPA 6020B
	Thallium	0.049	1.11	ug/L		EPA 6020B
	Zinc	-0.458	1.11	ug/L		EPA 6020B
Y9K0534-CCB3	Antimony	0.045	1.00	ug/L		EPA 6020B
	Arsenic	0.023	1.00	ug/L		EPA 6020B
	Beryllium	0.010	0.300	ug/L		EPA 6020B
	Cadmium	0.007	0.500	ug/L		EPA 6020B
	Chromium	0.057	1.00	ug/L		EPA 6020B
	Copper	0.022	1.00	ug/L		EPA 6020B
	Lead	0.011	1.00	ug/L		EPA 6020B
	Nickel	0.021	1.00	ug/L		EPA 6020B
	Selenium	1.20	1.00	ug/L	*	EPA 6020B
	Silver	0.004	1.00	ug/L		EPA 6020B
	Thallium	0.108	1.00	ug/L		EPA 6020B
	Zinc	0.195	1.00	ug/L		EPA 6020B

FORM I **BLANKS**

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: Nexion2000C Project: 41103.00 KINGSTON CVS

Sequence: Y9K0621 Calibration: 11/06/19 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y9K0621-ICB1	Antimony	0.073	1.00	ug/L		EPA 6020B
	Arsenic	0.008	1.00	ug/L		EPA 6020B
	Beryllium	0.004	0.300	ug/L		EPA 6020B
	Cadmium	0.002	0.500	ug/L		EPA 6020B
	Chromium	0.007	1.00	ug/L		EPA 6020B
	Copper	0.014	1.00	ug/L		EPA 6020B
	Lead	0.004	1.00	ug/L		EPA 6020B
	Nickel	0.011	1.00	ug/L		EPA 6020B
	Selenium	0.125	1.00	ug/L		EPA 6020B
	Silver	0.004	1.00	ug/L		EPA 6020B
	Thallium	0.170	1.00	ug/L		EPA 6020B
	Zinc	-0.151	1.00	ug/L		EPA 6020B
Y9K0621-CCB1	Antimony	0.074	1.00	ug/L		EPA 6020B
	Arsenic	0.010	1.00	ug/L		EPA 6020B
	Beryllium	0.007	0.300	ug/L		EPA 6020B
	Cadmium	0.005	0.500	ug/L		EPA 6020B
	Chromium	0.031	1.00	ug/L		EPA 6020B
	Copper	0.013	1.00	ug/L		EPA 6020B
	Lead	0.005	1.00	ug/L		EPA 6020B
	Nickel	0.018	1.00	ug/L		EPA 6020B
	Selenium	1.82	1.00	ug/L	*	EPA 6020B
	Silver	0.005	1.00	ug/L		EPA 6020B
	Thallium	0.133	1.00	ug/L		EPA 6020B
	Zinc	-0.144	1.00	ug/L		EPA 6020B
Y9K0621-CCB2	Antimony	0.066	1.00	ug/L		EPA 6020B
	Arsenic	-0.020	1.00	ug/L		EPA 6020B
	Beryllium	0.005	0.300	ug/L		EPA 6020B
	Cadmium	0.002	0.500	ug/L		EPA 6020B
	Chromium	0.004	1.00	ug/L		EPA 6020B
	Copper	0.019	1.00	ug/L		EPA 6020B
	Lead	0.004	1.00	ug/L		EPA 6020B
	Nickel	0.001	1.00	ug/L		EPA 6020B
	Selenium	3.61	1.00	ug/L	*	EPA 6020B

FORM I **BLANKS**

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: Nexion2000C Project: 41103.00 KINGSTON CVS

Sequence: Y9K0621 Calibration: 11/06/19 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y9K0621-CCB2	Silver	0.005	1.00	ug/L		EPA 6020B
	Thallium	0.121	1.00	ug/L		EPA 6020B
	Zinc	-0.060	1.00	ug/L		EPA 6020B
Y9K0621-CCB3	Antimony	0.070	1.00	ug/L		EPA 6020B
	Arsenic	0.023	1.00	ug/L		EPA 6020B
	Beryllium	0.007	0.300	ug/L		EPA 6020B
	Cadmium	0.003	0.500	ug/L		EPA 6020B
	Chromium	0.045	1.00	ug/L		EPA 6020B
	Copper	0.015	1.00	ug/L		EPA 6020B
	Lead	0.005	1.00	ug/L		EPA 6020B
	Nickel	0.010	1.00	ug/L		EPA 6020B
	Selenium	1.94	1.00	ug/L	*	EPA 6020B
	Silver	0.005	1.00	ug/L		EPA 6020B
	Thallium	0.144	1.00	ug/L		EPA 6020B
	Zinc	-0.007	1.00	ug/L		EPA 6020B

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Sequence:	Y9K0534	Instrument:	Nexion2000C
		Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	Y9K0534-ICV1	QBIMX110519B-006	11/05/19 10:45
Initial Cal Blank	Y9K0534-ICB1	QBIMX110519B-007	11/05/19 10:51
Calibration Check	Y9K0534-CCV1	QBIMX110519B-008	11/05/19 10:56
Calibration Blank	Y9K0534-CCB1	QBIMX110519B-009	11/05/19 11:01
Instrument RL Check	Y9K0534-CRL1	QBIMX110519B-010	11/05/19 11:07
Interference Check A	Y9K0534-IFA1	QBIMX110519B-012	11/05/19 11:17
Interference Check B	Y9K0534-IFB1	QBIMX110519B-013	11/05/19 11:23
Calibration Check	Y9K0534-CCV2	QBIMX110519B-014	11/05/19 11:28
Calibration Blank	Y9K0534-CCB2	QBIMX110519B-015	11/05/19 11:33
Blank	BJ91907-BLK1	QBIMX110519B-016	11/05/19 11:39
LCS	BJ91907-BS1	QBIMX110519B-017	11/05/19 11:44
KC-MW-01 1019	19J1295-01	QBIMX110519B-019	11/05/19 11:55
KC-MW-02 1019	19J1295-02	QBIMX110519B-020	11/05/19 12:00
KC-MW-05 1019	19J1295-03	QBIMX110519B-021	11/05/19 12:05
KC-MW-DUP 1019	19J1295-04	QBIMX110519B-022	11/05/19 12:11
Calibration Check	Y9K0534-CCV3	QBIMX110519B-026	11/05/19 12:32
Calibration Blank	Y9K0534-CCB3	QBIMX110519B-027	11/05/19 12:37

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Sequence:	Y9K0621	Instrument:	Nexion2000C
		Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	Y9K0621-ICV1	QBIMX110619A-006	11/06/19 11:36
Initial Cal Blank	Y9K0621-ICB1	QBIMX110619A-007	11/06/19 11:41
Calibration Check	Y9K0621-CCV1	QBIMX110619A-008	11/06/19 11:47
Calibration Blank	Y9K0621-CCB1	QBIMX110619A-009	11/06/19 11:52
Instrument RL Check	Y9K0621-CRL1	QBIMX110619A-010	11/06/19 11:57
Interference Check A	Y9K0621-IFA1	QBIMX110619A-012	11/06/19 12:08
Interference Check B	Y9K0621-IFB1	QBIMX110619A-013	11/06/19 12:13
Calibration Check	Y9K0621-CCV2	QBIMX110619A-014	11/06/19 12:19
Calibration Blank	Y9K0621-CCB2	QBIMX110619A-015	11/06/19 12:24
KC-MW-DUP 1019	19J1295-04RE1	QBIMX110619A-016	11/06/19 12:29
Calibration Check	Y9K0621-CCV3	QBIMX110619A-026	11/06/19 13:22
Calibration Blank	Y9K0621-CCB3	QBIMX110619A-027	11/06/19 13:28

HOLDING TIME SUMMARY

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
KC-MW-01 1019	10/29/19 17:45	10/30/19 15:23	10/31/19 12:05	1.76	180.00	11/05/19 11:55	6.76	180.00	
KC-MW-02 1019	10/29/19 15:19	10/30/19 15:23	10/31/19 12:05	1.87	180.00	11/05/19 12:00	6.86	180.00	
KC-MW-05 1019	10/29/19 14:31	10/30/19 15:23	10/31/19 12:05	1.90	180.00	11/05/19 12:05	6.90	180.00	
KC-MW-DUP 1019	10/29/19 00:00	10/30/19 15:23	10/31/19 12:05	2.50	180.00	11/05/19 12:11	7.51	180.00	
KC-MW-DUP 1019	10/29/19 00:00	10/30/19 15:23	10/31/19 12:05	2.50	180.00	11/06/19 12:29	8.52	180.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19J1295

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Matrix: Water **Instrument:** Nexion2000C

Analyte	LOD	LOQ	Units
Antimony	1.00	1.00	ug/L
Arsenic	1.00	1.00	ug/L
Beryllium	0.300	0.300	ug/L
Cadmium	0.500	0.500	ug/L
Chromium	1.00	1.00	ug/L
Copper	1.00	1.00	ug/L
Lead	1.00	1.00	ug/L
Nickel	1.00	1.00	ug/L
Selenium	1.00	1.00	ug/L
Silver	1.00	1.00	ug/L
Thallium	1.00	1.00	ug/L
Zinc	1.00	1.00	ug/L

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

KC-MW-01 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-01 File ID: QBIMX110519B-019

Sampled: 10/29/19 17:45 Prepared: 10/31/19 12:05 Analyzed: 11/05/19 11:55

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BJ91907 Sequence: Y9K0534 Calibration: 11/05/19 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	1.14	1		EPA 6020B
7440-38-2	Arsenic	45.2	1		EPA 6020B
7440-41-7	Beryllium	0.656	1		EPA 6020B
7440-43-9	Cadmium	11.6	1		EPA 6020B
7440-47-3	Chromium	42.5	1		EPA 6020B
7440-50-8	Copper	113	1		EPA 6020B
7439-92-1	Lead	61.3	1		EPA 6020B
7440-02-0	Nickel	373	1		EPA 6020B
7782-49-2	Selenium	112	1		EPA 6020B
7440-28-0	Thallium	1.11	1	U	EPA 6020B
7440-66-6	Zinc	196	1		EPA 6020B

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

KC-MW-02 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-02 File ID: QBIMX110519B-020

Sampled: 10/29/19 15:19 Prepared: 10/31/19 12:05 Analyzed: 11/05/19 12:00

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BJ91907 Sequence: Y9K0534 Calibration: 11/05/19 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	1.11	1	U	EPA 6020B
7440-38-2	Arsenic	1.11	1	U	EPA 6020B
7440-41-7	Beryllium	0.333	1	U	EPA 6020B
7440-43-9	Cadmium	1.04	1		EPA 6020B
7440-47-3	Chromium	1.59	1		EPA 6020B
7440-50-8	Copper	6.87	1		EPA 6020B
7439-92-1	Lead	1.11	1	U	EPA 6020B
7440-02-0	Nickel	42.0	1		EPA 6020B
7782-49-2	Selenium	3.21	1		EPA 6020B
7440-28-0	Thallium	1.11	1	U	EPA 6020B
7440-66-6	Zinc	19.5	1		EPA 6020B

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

KC-MW-05 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-03 File ID: QBIMX110519B-021

Sampled: 10/29/19 14:31 Prepared: 10/31/19 12:05 Analyzed: 11/05/19 12:05

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BJ91907 Sequence: Y9K0534 Calibration: 11/05/19 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	1.11	1	U	EPA 6020B
7440-38-2	Arsenic	2.90	1		EPA 6020B
7440-41-7	Beryllium	0.333	1	U	EPA 6020B
7440-43-9	Cadmium	0.556	1	U	EPA 6020B
7440-47-3	Chromium	1.11	1	U	EPA 6020B
7440-50-8	Copper	1.86	1		EPA 6020B
7439-92-1	Lead	1.11	1	U	EPA 6020B
7440-02-0	Nickel	3.52	1		EPA 6020B
7782-49-2	Selenium	3.29	1		EPA 6020B
7440-28-0	Thallium	1.11	1	U	EPA 6020B
7440-66-6	Zinc	8.32	1		EPA 6020B

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

KC-MW-DUP 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-04 File ID: QBIMX110519B-022

Sampled: 10/29/19 00:00 Prepared: 10/31/19 12:05 Analyzed: 11/05/19 12:11

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BJ91907 Sequence: Y9K0534 Calibration: 11/05/19 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	2.55	1		EPA 6020B
7440-38-2	Arsenic	448	1		EPA 6020B
7440-41-7	Beryllium	1.13	1		EPA 6020B
7440-43-9	Cadmium	302	1		EPA 6020B
7440-50-8	Copper	939	1		EPA 6020B
7439-92-1	Lead	251	1		EPA 6020B
7782-49-2	Selenium	339	1		EPA 6020B
7440-28-0	Thallium	2.74	1		EPA 6020B

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

KC-MW-DUP 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-04RE1 File ID: QBIMX110619A-016

Sampled: 10/29/19 00:00 Prepared: 10/31/19 12:05 Analyzed: 11/06/19 12:29

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BJ91907 Sequence: Y9K0621 Calibration: 11/06/19 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-47-3	Chromium	1510	10	D	EPA 6020B
7440-02-0	Nickel	2670	10	D	EPA 6020B
7440-66-6	Zinc	5500	10	D	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: Nexion2000C
Calibration: 11/05/19
Control Limt: +/- 10.00%
Sequence: Y9K0534

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y9K0534-ICV1	Antimony	50.0	44.6	89.3 *	ug/L	EPA 6020B
	Arsenic	50.0	49.0	98.1	ug/L	EPA 6020B
	Beryllium	50.0	47.9	95.8	ug/L	EPA 6020B
	Cadmium	50.0	46.3	92.5	ug/L	EPA 6020B
	Chromium	50.0	50.6	101	ug/L	EPA 6020B
	Copper	50.0	51.1	102	ug/L	EPA 6020B
	Lead	50.0	50.3	101	ug/L	EPA 6020B
	Nickel	50.0	51.0	102	ug/L	EPA 6020B
	Selenium	50.0	54.5	109	ug/L	EPA 6020B
	Silver	50.0	47.7	95.5	ug/L	EPA 6020B
	Thallium	50.0	50.6	101	ug/L	EPA 6020B
	Zinc	50.0	49.3	98.5	ug/L	EPA 6020B
Y9K0534-CCV1	Antimony	50.0	45.1	90.1	ug/L	EPA 6020B
	Arsenic	50.0	49.1	98.2	ug/L	EPA 6020B
	Beryllium	50.0	47.9	95.7	ug/L	EPA 6020B
	Cadmium	50.0	47.3	94.6	ug/L	EPA 6020B
	Chromium	50.0	51.0	102	ug/L	EPA 6020B
	Copper	50.0	52.0	104	ug/L	EPA 6020B
	Lead	50.0	50.0	100	ug/L	EPA 6020B
	Nickel	50.0	51.2	102	ug/L	EPA 6020B
	Selenium	50.0	52.4	105	ug/L	EPA 6020B
	Silver	50.0	48.4	96.8	ug/L	EPA 6020B
	Thallium	50.0	49.7	99.4	ug/L	EPA 6020B
	Zinc	50.0	46.9	93.8	ug/L	EPA 6020B
Y9K0534-CCV2	Antimony	50.0	46.9	93.8	ug/L	EPA 6020B
	Arsenic	50.0	49.9	99.7	ug/L	EPA 6020B
	Beryllium	50.0	48.1	96.2	ug/L	EPA 6020B
	Cadmium	50.0	48.4	96.7	ug/L	EPA 6020B
	Chromium	50.0	51.9	104	ug/L	EPA 6020B
	Copper	50.0	53.1	106	ug/L	EPA 6020B
	Lead	50.0	51.6	103	ug/L	EPA 6020B
	Nickel	50.0	51.5	103	ug/L	EPA 6020B
	Selenium	50.0	56.4	113	ug/L	EPA 6020B
	Silver	50.0	49.0	98.1	ug/L	EPA 6020B
	Thallium	50.0	51.6	103	ug/L	EPA 6020B
	Zinc	50.0	47.5	94.9	ug/L	EPA 6020B
Y9K0534-CCV3	Antimony	50.0	47.9	95.8	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: Nexion2000C
Calibration: 11/05/19
Control Limt: +/- 10.00%
Sequence: Y9K0534

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y9K0534-CCV3	Arsenic	50.0	52.5	105	ug/L	EPA 6020B
	Beryllium	50.0	50.5	101	ug/L	EPA 6020B
	Cadmium	50.0	48.4	96.7	ug/L	EPA 6020B
	Chromium	50.0	51.8	104	ug/L	EPA 6020B
	Copper	50.0	52.4	105	ug/L	EPA 6020B
	Lead	50.0	53.0	106	ug/L	EPA 6020B
	Nickel	50.0	52.4	105	ug/L	EPA 6020B
	Selenium	50.0	50.1	100	ug/L	EPA 6020B
	Silver	50.0	48.7	97.3	ug/L	EPA 6020B
	Thallium	50.0	52.3	105	ug/L	EPA 6020B
	Zinc	50.0	47.3	94.6	ug/L	EPA 6020B

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: Nexion2000C
Calibration: 11/06/19
Control Limt: +/- 10.00%
Sequence: Y9K0621

Lab Sample ID	Analyte	True	Found	%R		Units	Method
Y9K0621-ICV1	Antimony	50.0	48.3	96.6		ug/L	EPA 6020B
	Arsenic	50.0	46.8	93.6		ug/L	EPA 6020B
	Beryllium	50.0	51.6	103		ug/L	EPA 6020B
	Cadmium	50.0	50.2	100		ug/L	EPA 6020B
	Chromium	50.0	47.5	94.9		ug/L	EPA 6020B
	Copper	50.0	48.7	97.5		ug/L	EPA 6020B
	Lead	50.0	52.8	106		ug/L	EPA 6020B
	Nickel	50.0	49.2	98.4		ug/L	EPA 6020B
	Selenium	50.0	47.9	95.7		ug/L	EPA 6020B
	Silver	50.0	50.8	102		ug/L	EPA 6020B
	Thallium	50.0	52.0	104		ug/L	EPA 6020B
	Zinc	50.0	52.8	106		ug/L	EPA 6020B
Y9K0621-CCV1	Antimony	50.0	49.6	99.1		ug/L	EPA 6020B
	Arsenic	50.0	48.3	96.6		ug/L	EPA 6020B
	Beryllium	50.0	52.2	104		ug/L	EPA 6020B
	Cadmium	50.0	51.8	104		ug/L	EPA 6020B
	Chromium	50.0	49.1	98.2		ug/L	EPA 6020B
	Copper	50.0	49.4	98.7		ug/L	EPA 6020B
	Lead	50.0	52.8	106		ug/L	EPA 6020B
	Nickel	50.0	48.8	97.7		ug/L	EPA 6020B
	Selenium	50.0	47.9	95.9		ug/L	EPA 6020B
	Silver	50.0	53.1	106		ug/L	EPA 6020B
	Thallium	50.0	52.3	105		ug/L	EPA 6020B
	Zinc	50.0	44.4	88.8	*	ug/L	EPA 6020B
Y9K0621-CCV2	Antimony	50.0	57.7	115	*	ug/L	EPA 6020B
	Arsenic	50.0	51.6	103		ug/L	EPA 6020B
	Beryllium	50.0	60.2	120	*	ug/L	EPA 6020B
	Cadmium	50.0	59.9	120	*	ug/L	EPA 6020B
	Chromium	50.0	51.4	103		ug/L	EPA 6020B
	Copper	50.0	52.0	104		ug/L	EPA 6020B
	Lead	50.0	60.2	120	*	ug/L	EPA 6020B
	Nickel	50.0	52.0	104		ug/L	EPA 6020B
	Selenium	50.0	51.9	104		ug/L	EPA 6020B
	Silver	50.0	59.8	120	*	ug/L	EPA 6020B
	Thallium	50.0	59.5	119	*	ug/L	EPA 6020B
	Zinc	50.0	48.0	96.1		ug/L	EPA 6020B
Y9K0621-CCV3	Antimony	50.0	50.2	100		ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: Nexion2000C
Calibration: 11/06/19
Control Limt: +/- 10.00%
Sequence: Y9K0621

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y9K0621-CCV3	Arsenic	50.0	50.3	101	ug/L	EPA 6020B
	Beryllium	50.0	54.6	109	ug/L	EPA 6020B
	Cadmium	50.0	52.0	104	ug/L	EPA 6020B
	Chromium	50.0	51.3	103	ug/L	EPA 6020B
	Copper	50.0	51.3	103	ug/L	EPA 6020B
	Lead	50.0	53.6	107	ug/L	EPA 6020B
	Nickel	50.0	51.0	102	ug/L	EPA 6020B
	Selenium	50.0	51.0	102	ug/L	EPA 6020B
	Silver	50.0	54.2	108	ug/L	EPA 6020B
	Thallium	50.0	52.3	105	ug/L	EPA 6020B
	Zinc	50.0	47.4	94.8	ug/L	EPA 6020B

* Values outside of QC limits

CRDL STANDARD

EPA 6020B

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: Nexion2000C
Calibration: 11/05/19
Sequence: Y9K0534

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
Y9K0534-CRL1	Antimony	1.00	0.882	88.2	ug/L	75 - 125
	Arsenic	1.00	1.10	110	ug/L	75 - 125
	Beryllium	1.00	0.956	95.6	ug/L	75 - 125
	Cadmium	1.00	0.895	89.5	ug/L	75 - 125
	Chromium	1.00	1.14	114	ug/L	75 - 125
	Copper	1.00	1.11	111	ug/L	75 - 125
	Lead	1.00	0.990	99.0	ug/L	75 - 125
	Nickel	1.00	1.16	116	ug/L	75 - 125
	Selenium	1.00	2.39	239 *	ug/L	0 - 200
	Silver	1.00	0.906	90.6	ug/L	75 - 125
	Thallium	1.00	1.05	105	ug/L	75 - 125
	Zinc	1.00	2.80	280 *	ug/L	75 - 125

* Values outside of QC limits

CRDL STANDARD

EPA 6020B

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: Nexion2000C
Calibration: 11/06/19
Sequence: Y9K0621

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
Y9K0621-CRL1	Antimony	1.00	1.10	110	ug/L	75 - 125
	Arsenic	1.00	0.944	94.4	ug/L	75 - 125
	Beryllium	1.00	1.09	109	ug/L	75 - 125
	Cadmium	1.00	1.07	107	ug/L	75 - 125
	Chromium	1.00	1.11	111	ug/L	75 - 125
	Copper	1.00	1.12	112	ug/L	75 - 125
	Lead	1.00	1.22	122	ug/L	75 - 125
	Nickel	1.00	1.12	112	ug/L	75 - 125
	Selenium	1.00	4.69	469 *	ug/L	0 - 200
	Silver	1.00	1.11	111	ug/L	75 - 125
	Thallium	1.00	1.26	126 *	ug/L	75 - 125
	Zinc	1.00	2.34	234 *	ug/L	75 - 125

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: Nexion2000C
Calibration: 11/05/19
Sequence: Y9K0534

Lab Sample ID	Analyte	True	Found	%R	Units
Y9K0534-IFA1	Antimony		0.06		ug/L
	Arsenic		0.06		ug/L
	Beryllium		0.00		ug/L
	Cadmium		0.32		ug/L
	Chromium		0.15		ug/L
	Copper		0.06		ug/L
	Lead		0.01		ug/L
	Nickel		0.07		ug/L
	Selenium		0.73		ug/L
	Silver		0.02		ug/L
	Thallium		0.04		ug/L
	Zinc		0.17		ug/L
Y9K0534-IFB1	Antimony	20.0	18.93	94.6	ug/L
	Arsenic	20.0	20.84	104	ug/L
	Beryllium	20.0	18.10	90.5	ug/L
	Cadmium	20.0	19.48	97.4	ug/L
	Chromium	20.0	21.14	106	ug/L
	Copper	20.0	20.69	103	ug/L
	Lead	20.0	19.62	98.1	ug/L
	Nickel	20.0	20.30	101	ug/L
	Selenium	20.0	24.51	123	ug/L
	Silver	20.0	18.69	93.5	ug/L
	Thallium	20.0	19.85	99.3	ug/L
	Zinc	20.0	19.41	97.0	ug/L

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: Nexion2000C
Calibration: 11/06/19
Sequence: Y9K0621

Lab Sample ID	Analyte	True	Found	%R	Units
Y9K0621-IFA1	Antimony		0.09		ug/L
	Arsenic		0.06		ug/L
	Beryllium		0.00		ug/L
	Cadmium		0.34		ug/L
	Chromium		0.13		ug/L
	Copper		0.06		ug/L
	Lead		0.02		ug/L
	Nickel		0.06		ug/L
	Selenium		1.99		ug/L
	Silver		0.02		ug/L
	Thallium		0.03		ug/L
	Zinc		0.14		ug/L
Y9K0621-IFB1	Antimony	20.0	20.81	104	ug/L
	Arsenic	20.0	20.31	102	ug/L
	Beryllium	20.0	20.54	103	ug/L
	Cadmium	20.0	21.66	108	ug/L
	Chromium	20.0	20.36	102	ug/L
	Copper	20.0	19.80	99.0	ug/L
	Lead	20.0	21.14	106	ug/L
	Nickel	20.0	19.77	98.9	ug/L
	Selenium	20.0	18.79	94.0	ug/L
	Silver	20.0	20.85	104	ug/L
	Thallium	20.0	21.66	108	ug/L
	Zinc	20.0	18.30	91.5	ug/L

* Values outside of QC limits

Metals Linear Dynamic Range

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Instrument: Nexion2000C

CAS NO.	Analyte	Concentration ug/L
7440-36-0	Antimony	1000
7440-38-2	Arsenic	1000
7440-41-7	Beryllium	1000
7440-43-9	Cadmium	1000
7440-47-3	Chromium	1000
7440-50-8	Copper	1000
7439-92-1	Lead	1000
7440-02-0	Nickel	1000
7782-49-2	Selenium	1000
7440-28-0	Thallium	1000
7440-66-6	Zinc	1000

BENCHSHEETS

SDG: 19J1295

CLASS: METALS

METHOD: EPA 6020B

PREPARATION BENCH SHEET-AQUEOUS: BJ91907

Prepared: **10/31/2019 12:05**

York Analytical Laboratories, Inc.

Printed: 11/7/2019 12:46:30PM

Matrix: Water **Preparation EPA 3015A** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
19J1237-01 F	Copper by EPA 602	45	50							NA			
19J1237-01 F	Lead by EPA 6020	45	50							NA			
19J1237-01 F	Arsenic by EPA 60	45	50							NA			
19J1295-01 D	Metals, Priority Po	45	50							NA			
19J1295-02 D	Metals, Priority Po	45	50							NA			
19J1295-03 D	Metals, Priority Po	45	50							NA			
19J1295-04 D	Metals, Priority Po	45	50							NA			
19J1295-04RE1 D	Metals, Priority Po	45	50							NA			Added 11/6/2019 by BMI
19J1309-01 M	Boron by EPA 602(	45	50							NA			
19J1309-01 H	Metals, Target Ana	45	50							NA			
19J1309-01RE1 M	Boron by EPA 602(	45	50							NA			Added 11/6/2019 by BMI
19J1309-01RE1 H	Metals, Target Ana	45	50							NA			Added 11/6/2019 by BMI
19J1309-02 H	Metals, Target Ana	45	50							NA			
19J1309-02 M	Boron by EPA 602(	45	50							NA			
19J1309-02RE1 H	Metals, Target Ana	45	50							NA			Added 11/6/2019 by BMI
19J1309-02RE1 M	Boron by EPA 602(	45	50							NA			Added 11/6/2019 by BMI
19J1309-03 M	Arsenic by EPA 60	45	50							NA			Added for BatchQC in: BJ91907
19J1309-03 M	Boron by EPA 602(	45	50							NA			
19J1309-03 M	Copper by EPA 602	45	50							NA			Added for BatchQC in: BJ91907
19J1309-03 M	Lead by EPA 6020	45	50							NA			Added for BatchQC in: BJ91907
19J1309-03 M	Metals, Priority Po	45	50							NA			Added for BatchQC in: BJ91907
19J1309-03 H	Metals, Target Ana	45	50							NA			
19J1339-02 G	Arsenic by EPA 60	45	50							NA			
19J1339-02 G	Copper by EPA 602	45	50							NA			
19J1339-02 G	Lead by EPA 6020	45	50							NA			
19J1339-03 C	Lead by EPA 6020	45	50							NA			
BJ91907-BLK1	QC	45	50							NA			
BJ91907-BS1	QC	45	50	Y19H287	1					NA			
BJ91907-DUP1	QC	45	50					19J1309-03		NA			
BJ91907-MS1	QC	45	50	Y19H287	1			19J1309-03		NA			

Preparation Performed by SY **Date:** 10/31/2019 12:05

PREPARATION BENCH SHEET-AQUEOUS: BJ91907

Prepared: **10/31/2019 12:05**

York Analytical Laboratories, Inc.

Printed: 11/7/2019 12:46:30PM

Matrix: Water **Preparation EPA 3015A** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data			Decanted Y/N	Comments
									Initial	Acid	Basic		

Reagents:

ID Number	Description	Lot Number
Y19I180	Hydrochloric Acid , ACS Grade 37'	0000229506

ID Number	Description	Lot Number
Y19J129	Nitric Acid , ACS Grade 69-70%	0000220208

Preparation Performed by SY **Date:** 10/31/2019 12:05

Performance Check Report

Sample ID: [STD] Performance Check
Sample Date/Time: Tuesday, November 05, 2019 09:41:07
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX013118A\[STD] Performance Check.268
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\EPA 200 - Copy.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	4331.3	4331.257	114.754	2.6	Standard
	In	114.9	120820.0	120819.980	845.086	0.7	Standard
	U	238.1	163348.2	163348.189	4690.279	2.9	Standard
⌈	CeO	155.9	2283.3	0.019	0.000	1.7	Standard
| >	Ce	139.9	118138.4	118138.443	1155.063	1.0	Standard
⌊	Ce++	70.0	2304.6	0.019	0.010	52.5	Standard
	Bkgd	220.0	0.1	0.133	0.075	55.9	Standard

Current Conditions File Data

Current Value	Description
1.10	Standard - Nebulizer Gas Flow STD/KED [NEB]
1.20	Standard - Auxiliary Gas Flow
15.00	Standard - Plasma Gas Flow
0.00	Standard - Oxygen Gas Flow
-12.50	Standard - Deflector Voltage
1600.00	Standard - ICP RF Power
-2100.00	Standard - Analog Stage Voltage
1400.00	Standard - Pulse Stage Voltage
0.00	Standard - Quadrupole Rod Offset STD [QRO]
-2.00	Standard - Cell Rod Offset STD [CRO]
11.00	Standard - Discriminator Threshold
-4.00	Standard - Cell Entrance/Exit Voltage STD
1.10	Ammonia DRC - DRC Mode NEB
-9.00	Ammonia DRC - DRC Mode QRO
-2.00	Ammonia DRC - DRC Mode CRO
-7.00	Ammonia DRC - DRC Mode Cell Entrance/Exit Voltage
200.00	Ammonia DRC - Axial Field Voltage
0.00	Ammonia DRC - RPa
0.45	Ammonia DRC - RPq
0.60	Ammonia DRC - Cell Gas A
-12.00	Helium KED - KED Mode QRO
-15.00	Helium KED - KED Mode CRO
-8.00	Helium KED - KED Mode Cell Entrance Voltage
-25.00	Helium KED - KED Mode Cell Exit Voltage
475.00	Helium KED - KED Mode Axial Field Voltage
0.00	Helium KED - KED RPa
0.25	Helium KED - KED RPq
4.50	Helium KED - Cell Gas B

Performance Check Report

Sample ID: [STD] Performance Check
Sample Date/Time: Tuesday, November 05, 2019 09:43:51
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX013118A\[STD] Performance Check.269
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\EPA 200 - Copy.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	4218.4	4218.423	40.977	1.0	Standard
	In	114.9	120571.9	120571.861	1359.628	1.1	Standard
	U	238.1	173628.6	173628.571	3132.052	1.8	Standard
⌈	CeO	155.9	2369.9	0.020	0.000	0.6	Standard
| >	Ce	139.9	120563.8	120563.834	941.231	0.8	Standard
⌊	Ce++	70.0	1424.7	0.012	0.000	2.5	Standard
	Bkgd	220.0	0.1	0.100	0.091	91.3	Standard

Current Conditions File Data

Current Value	Description
1.10	Standard - Nebulizer Gas Flow STD/KED [NEB]
1.20	Standard - Auxiliary Gas Flow
15.00	Standard - Plasma Gas Flow
0.00	Standard - Oxygen Gas Flow
-12.50	Standard - Deflector Voltage
1600.00	Standard - ICP RF Power
-2100.00	Standard - Analog Stage Voltage
1400.00	Standard - Pulse Stage Voltage
0.00	Standard - Quadrupole Rod Offset STD [QRO]
-2.00	Standard - Cell Rod Offset STD [CRO]
11.00	Standard - Discriminator Threshold
-4.00	Standard - Cell Entrance/Exit Voltage STD
1.10	Ammonia DRC - DRC Mode NEB
-9.00	Ammonia DRC - DRC Mode QRO
-2.00	Ammonia DRC - DRC Mode CRO
-7.00	Ammonia DRC - DRC Mode Cell Entrance/Exit Voltage
200.00	Ammonia DRC - Axial Field Voltage
0.00	Ammonia DRC - RPa
0.45	Ammonia DRC - RPq
0.60	Ammonia DRC - Cell Gas A
-12.00	Helium KED - KED Mode QRO
-15.00	Helium KED - KED Mode CRO
-8.00	Helium KED - KED Mode Cell Entrance Voltage
-25.00	Helium KED - KED Mode Cell Exit Voltage
475.00	Helium KED - KED Mode Axial Field Voltage
0.00	Helium KED - KED RPa
0.25	Helium KED - KED RPq
4.50	Helium KED - Cell Gas B

Performance Check Report

Sample ID: [STD] Performance Check
Sample Date/Time: Tuesday, November 05, 2019 09:54:35
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX013118A\[STD] Performance Check.273
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\EPA 200 - Copy.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	5209.3	5209.350	97.983	1.9	Standard
	In	114.9	124288.8	124288.839	2533.051	2.0	Standard
	U	238.1	205027.3	205027.334	1735.929	0.8	Standard
⌈	CeO	155.9	1987.7	0.016	0.000	1.5	Standard
| >	Ce	139.9	121472.5	121472.513	2088.471	1.7	Standard
⌊	Ce++	70.0	1298.7	0.011	0.000	1.8	Standard
	Bkgd	220.0	0.1	0.067	0.091	136.9	Standard

Current Conditions File Data

Current Value	Description
1.10	Standard - Nebulizer Gas Flow STD/KED [NEB]
1.20	Standard - Auxiliary Gas Flow
15.00	Standard - Plasma Gas Flow
0.00	Standard - Oxygen Gas Flow
-12.50	Standard - Deflector Voltage
1600.00	Standard - ICP RF Power
-2100.00	Standard - Analog Stage Voltage
1400.00	Standard - Pulse Stage Voltage
0.00	Standard - Quadrupole Rod Offset STD [QRO]
-2.00	Standard - Cell Rod Offset STD [CRO]
11.00	Standard - Discriminator Threshold
-4.00	Standard - Cell Entrance/Exit Voltage STD
1.10	Ammonia DRC - DRC Mode NEB
-9.00	Ammonia DRC - DRC Mode QRO
-2.00	Ammonia DRC - DRC Mode CRO
-7.00	Ammonia DRC - DRC Mode Cell Entrance/Exit Voltage
200.00	Ammonia DRC - Axial Field Voltage
0.00	Ammonia DRC - RPa
0.45	Ammonia DRC - RPq
0.60	Ammonia DRC - Cell Gas A
-12.00	Helium KED - KED Mode QRO
-15.00	Helium KED - KED Mode CRO
-8.00	Helium KED - KED Mode Cell Entrance Voltage
-25.00	Helium KED - KED Mode Cell Exit Voltage
475.00	Helium KED - KED Mode Axial Field Voltage
0.00	Helium KED - KED RPa
0.25	Helium KED - KED RPq
4.50	Helium KED - Cell Gas B

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\York.swz

Start Time: 11/5/2019 9:56:45 AM

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\York.swz

Optimization Status

Start Time: 11/5/2019 9:56:45 AM

Mass Calibration and Resolution

Optimization Settings:

Method: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA 200 Tune.mth.
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\EPA 200 - Copy.tun
Iterations: 6
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
Peak height (%) for Res. Opt.: 10

Optimization Results:

Initial Try

Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.689)
Target/Obtained mass (23.985/24.025), Target/Obtained resolution (0.7/0.704)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.710)
Target/Obtained mass (207.977/207.975), Target/Obtained resolution (0.7/0.712)
Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.705)

[Passed] Optimum value(s): N/A

Run List

Sample File Name: QBIMX110519B.sam

AS Loc.	Sample ID	Batch Index	Sample Type	Method
1	Blank		Blank	EPA6020_200.8_091119.mth
2	STD 1.0_5.0_50.0		Standard	EPA6020_200.8_091119.mth
3	STD 10.0_100.0		Standard	EPA6020_200.8_091119.mth
4	STD 20.0_1000		Standard	EPA6020_200.8_091119.mth
5	STD 100_5000		Standard	EPA6020_200.8_091119.mth
7	SEQ-ICV1		QC Std	EPA6020_200.8_091119.mth
1	SEQ-ICB1		QC Std	EPA6020_200.8_091119.mth
8	SEQ-CCV1	1	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB1	2	Sample	EPA6020_200.8_091119.mth
6	SEQ-CRL1	3	Sample	EPA6020_200.8_091119.mth
2	SEQ-CRL1	4	Sample	EPA6020_200.8_091119.mth
9	SEQ-IFA1	5	Sample	EPA6020_200.8_091119.mth
10	SEQ-IFB1	6	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV2	7	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB2	8	Sample	EPA6020_200.8_091119.mth
101	BJ91907-BLK1	9	Sample	EPA6020_200.8_091119.mth
102	BJ91907-BS1	10	Sample	EPA6020_200.8_091119.mth
103	19J1237-01	11	Sample	EPA6020_200.8_091119.mth
104	19J1295-01	12	Sample	EPA6020_200.8_091119.mth
105	19J1295-02	13	Sample	EPA6020_200.8_091119.mth
106	19J1295-03	14	Sample	EPA6020_200.8_091119.mth
107	19J1295-04	15	Sample	EPA6020_200.8_091119.mth
108	19J1309-01	16	Sample	EPA6020_200.8_091119.mth
109	19J1309-02	17	Sample	EPA6020_200.8_091119.mth
110	19J1309-03	18	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV3	19	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB3	20	Sample	EPA6020_200.8_091119.mth
111	BJ91907-DUP1	21	Sample	EPA6020_200.8_091119.mth
112	BJ91907-MS1	22	Sample	EPA6020_200.8_091119.mth
113	19J1339-02	23	Sample	EPA6020_200.8_091119.mth
114	19J1339-03	24	Sample	EPA6020_200.8_091119.mth
115	SEQ-SRD1	25	Sample	EPA6020_200.8_091119.mth
116	BK90100-BLK1	26	Sample	EPA6020_200.8_091119.mth
117	BK90100-BS1	27	Sample	EPA6020_200.8_091119.mth
118	19J1239-01	28	Sample	EPA6020_200.8_091119.mth
119	19J1250-04	29	Sample	EPA6020_200.8_091119.mth
120	19J1257-01	30	Sample	EPA6020_200.8_091119.mth

AS Loc.	Sample ID	Batch Index	Sample Type	Method
8	SEQ-CCV4	31	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB4	32	Sample	EPA6020_200.8_091119.mth
121	19J1258-01	33	Sample	EPA6020_200.8_091119.mth
122	19J1304-06	34	Sample	EPA6020_200.8_091119.mth
123	BK90100-DUP1	35	Sample	EPA6020_200.8_091119.mth
124	BK90100-MS1	36	Sample	EPA6020_200.8_091119.mth
125	19J1371-01	37	Sample	EPA6020_200.8_091119.mth
126	SEQ-SRD2	38	Sample	EPA6020_200.8_091119.mth
127	BK90180-BLK1	39	Sample	EPA6020_200.8_091119.mth
128	BK90180-BS1	40	Sample	EPA6020_200.8_091119.mth
129	19K0072-03	41	Sample	EPA6020_200.8_091119.mth
130	19K0072-08	42	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV5	43	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB5	44	Sample	EPA6020_200.8_091119.mth
131	BK90180-DUP1	45	Sample	EPA6020_200.8_091119.mth
132	BK90180-MS1	46	Sample	EPA6020_200.8_091119.mth
133	19K0086-01	47	Sample	EPA6020_200.8_091119.mth
134	19K0086-02	48	Sample	EPA6020_200.8_091119.mth
135	19K0086-03	49	Sample	EPA6020_200.8_091119.mth
136	19K0086-04	50	Sample	EPA6020_200.8_091119.mth
137	19K0087-01	51	Sample	EPA6020_200.8_091119.mth
138	19K0093-01	52	Sample	EPA6020_200.8_091119.mth
139	19K0093-02	53	Sample	EPA6020_200.8_091119.mth
140	SEQ-SRD3	54	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV6	55	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB6	56	Sample	EPA6020_200.8_091119.mth
141	BK90179-BLK1	57	Sample	EPA6020_200.8_091119.mth
142	BK90179-LBK1	58	Sample	EPA6020_200.8_091119.mth
143	BK90179-BS1	59	Sample	EPA6020_200.8_091119.mth
144	19J1233-09	60	Sample	EPA6020_200.8_091119.mth
145	19J1233-11	61	Sample	EPA6020_200.8_091119.mth
146	19J1233-13	62	Sample	EPA6020_200.8_091119.mth
147	BK90179-DUP1	63	Sample	EPA6020_200.8_091119.mth
148	BK90179-MS1	64	Sample	EPA6020_200.8_091119.mth
149	SEQ-SRD4	65	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV7	66	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB7	67	Sample	EPA6020_200.8_091119.mth
2	SEQ-CRL2	68	Sample	EPA6020_200.8_091119.mth
9	SEQ-IFA2	69	Sample	EPA6020_200.8_091119.mth
10	SEQ-IFB2	70	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV8	71	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB8	72	Sample	EPA6020_200.8_091119.mth

Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1

Sample Date/Time: Tuesday, November 05, 2019 10:45:58

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110519B\SEQ-ICV1.006

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌜	B	11	93.302330	ug/L	3.836	704844.074	Standard
|	Be	9	47.914579	ug/L	1.975	297960.019	Standard
⌞>	Sc	45		ug/L	3.849	794605.748	Standard
⌜	Al	27	1003.961295	ug/L	0.473	106688.912	KED
|	Ti	48	92.776944	ug/L	1.958	78986.480	KED
|	V	51	48.911129	ug/L	0.203	148194.694	KED
|	Cr	52	50.595703	ug/L	0.722	211221.435	KED
|	Cr-1	53	49.586385	ug/L	1.948	24145.059	KED
|	Mn	55	50.609058	ug/L	2.985	69660.863	KED
|	Fe-1	57	1011.214970	ug/L	2.469	68179.708	KED
|	Co	59	51.221616	ug/L	4.318	376246.851	KED
|	Ni	60	50.973711	ug/L	1.386	112119.648	KED
|	Cu	63	51.057122	ug/L	3.491	292118.114	KED
|	Cu-1	65	51.574929	ug/L	0.859	149285.331	KED
|	Zn	66	49.257888	ug/L	0.659	22044.997	KED
|	Zn-1	67	50.602027	ug/L	2.931	3831.847	KED
|>	Ge	72		ug/L	1.477	96773.385	KED
|	As	75	49.028233	ug/L	0.926	12219.891	KED
|	Se	82	54.510337	ug/L	12.073	315.337	KED
|	Se-1	78	51.279591	ug/L	4.556	598.575	KED
|	Se-2	77	48.132013	ug/L	15.285	179.897	KED
|	Mo	98	48.678530	ug/L	3.728	200355.134	KED
⌞	Mo-1	97	49.933269	ug/L	0.840	77509.042	KED
⌜	Sr	88	92.076223	ug/L	2.599	11307334.764	Standard
|	Ag	107	47.732174	ug/L	1.035	2360191.935	Standard
|	Ag-1	109	48.299173	ug/L	1.481	2291581.108	Standard
|	Cd	111	46.267568	ug/L	1.482	476842.735	Standard
|	Cd-1	114	47.175417	ug/L	3.651	1201110.589	Standard
|>	Rh	103		ug/L	2.219	1050385.933	Standard
|	Sn	118	95.275043	ug/L	3.150	3347517.082	Standard
|	Sb-1	121	45.721190	ug/L	2.019	1419105.043	Standard
⌞	Sb	123	44.645189	ug/L	2.415	1051190.471	Standard
⌜	Ba	135	47.489708	ug/L	2.147	411061.192	Standard
⌞>	Tb	159		ug/L	2.934	1208132.157	Standard
⌜>	Ho	165		ug/L	1.444	1165840.989	Standard
|	Tl-1	203	49.621841	ug/L	1.273	1968748.504	Standard
|	Tl	205	50.562104	ug/L	2.237	4934624.539	Standard
|	Pb-1	206	50.554527	ug/L	1.575	1689884.224	Standard
|	Pb-2	207	49.245189	ug/L	1.921	1488475.165	Standard
⌞	Pb	208	50.273028	ug/L	0.589	6823782.438	Standard
⌜	Ne	20		ug/L	1.888	355032.546	Standard
|	Na	23	978.145910	ug/L	6.171	5783975.104	Standard
|	Mg	26	1007.308215	ug/L	3.133	3492578.433	Standard
|	K	39	1034.117990	ug/L	1.912	4034686.183	Standard
|	Ca	43	1100.007494	ug/L	1.151	145372.649	Standard
|	Fe	57	986.692332	ug/L	1.679	1575167.473	Standard
⌞>	Sc-1	45		ug/L	3.849	794605.748	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1

Sample Date/Time: Tuesday, November 05, 2019 10:51:17

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110519B\SEQ-ICB1.007

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌜	B	11	-0.149010	ug/L	0.986	5640.447	Standard
|	Be	9	0.007631	ug/L	12.898	62.667	Standard
⌞>	Sc	45		ug/L	1.980	812297.060	Standard
⌜	Al	27	0.640871	ug/L	2.846	1142.712	KED
|	Ti	48	0.046371	ug/L	2.941	68.000	KED
|	V	51	-0.129187	ug/L	4.350	1070.707	KED
|	Cr	52	0.034268	ug/L	5.916	2928.301	KED
|	Cr-1	53	-0.346394	ug/L	5.877	699.350	KED
|	Mn	55	0.016635	ug/L	9.352	65.333	KED
|	Fe-1	57	0.065741	ug/L	7.249	146.001	KED
|	Co	59	0.012849	ug/L	7.050	130.001	KED
|	Ni	60	0.026533	ug/L	9.082	275.336	KED
|	Cu	63	0.017298	ug/L	6.544	277.336	KED
|	Cu-1	65	0.027800	ug/L	15.377	150.001	KED
|	Zn	66	0.191838	ug/L	5.650	475.341	KED
|	Zn-1	67	0.111172	ug/L	11.781	74.000	KED
|>	Ge	72		ug/L	0.542	96085.391	KED
|	As	75	-0.009410	ug/L	15.563	34.000	KED
|	Se	82	-0.490688	ug/L	48.313	18.667	KED
|	Se-1	78	-0.453728	ug/L	293.703	-4.104	KED
|	Se-2	77	-0.529040	ug/L	1591.637	-0.771	KED
|	Mo	98	0.055095	ug/L	7.075	312.670	KED
⌞	Mo-1	97	0.054714	ug/L	18.449	129.334	KED
⌜	Sr	88	0.007983	ug/L	5.860	2652.914	Standard
|	Ag	107	0.004280	ug/L	2.171	415.339	Standard
|	Ag-1	109	0.004270	ug/L	7.901	378.005	Standard
|	Cd	111	0.003986	ug/L	15.502	93.334	Standard
|	Cd-1	114	0.006688	ug/L	12.953	464.008	Standard
|>	Rh	103		ug/L	1.451	1083748.054	Standard
|	Sn	118	0.027126	ug/L	1.136	7487.962	Standard
|	Sb-1	121	0.042119	ug/L	3.141	4700.107	Standard
⌞	Sb	123	0.038330	ug/L	1.898	3477.244	Standard
⌜	Ba	135	0.008835	ug/L	3.525	173.334	Standard
⌞>	Tb	159		ug/L	0.315	1237947.444	Standard
⌜>	Ho	165		ug/L	0.794	1189914.171	Standard
|	Tl-1	203	0.139738	ug/L	5.136	6246.034	Standard
|	Tl	205	0.141315	ug/L	6.574	15521.118	Standard
|	Pb-1	206	0.007766	ug/L	3.635	854.692	Standard
|	Pb-2	207	0.007618	ug/L	3.303	766.687	Standard
⌞	Pb	208	0.007733	ug/L	1.722	3464.165	Standard
⌜	Ne	20		ug/L	1.958	329879.519	Standard
|	Na	23	0.417785	ug/L	0.960	28133.677	Standard
|	Mg	26	0.193942	ug/L	1.683	11135.005	Standard
|	K	39	2.753310	ug/L	1.272	138127.295	Standard
|	Ca	43	6.003604	ug/L	2.649	1665.430	Standard
|	Fe	57	-0.954929	ug/L	3.095	38572.036	Standard
⌞>	Sc-1	45		ug/L	1.980	812297.060	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1

Sample Date/Time: Tuesday, November 05, 2019 10:56:37

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110519B\SEQ-CCV1.008

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌜	B	11	48.117372	ug/L	1.633	374145.648	Standard
|	Be	9	47.851113	ug/L	0.719	303735.749	Standard
⌞>	Sc	45		ug/L	2.140	810831.460	Standard
⌜	Al	27	2583.248634	ug/L	0.776	269706.921	KED
|	Ti	48	50.375597	ug/L	4.770	42421.654	KED
|	V	51	50.243073	ug/L	3.932	150483.908	KED
|	Cr	52	50.983923	ug/L	3.413	210435.081	KED
|	Cr-1	53	51.217865	ug/L	6.267	24637.950	KED
|	Mn	55	50.896279	ug/L	1.107	69245.430	KED
|	Fe-1	57	2692.583985	ug/L	4.002	179243.996	KED
|	Co	59	51.981843	ug/L	4.701	377380.646	KED
|	Ni	60	51.211461	ug/L	3.240	111376.782	KED
|	Cu	63	51.969657	ug/L	3.840	294010.206	KED
|	Cu-1	65	51.733285	ug/L	2.279	148050.807	KED
|	Zn	66	46.921248	ug/L	1.197	20779.102	KED
|	Zn-1	67	45.797489	ug/L	2.114	3434.413	KED
|>	Ge	72		ug/L	1.177	95665.946	KED
|	As	75	49.118624	ug/L	1.327	12103.125	KED
|	Se	82	52.430750	ug/L	8.210	300.670	KED
|	Se-1	78	51.853421	ug/L	10.745	598.586	KED
|	Se-2	77	46.216118	ug/L	9.746	170.574	KED
|	Mo	98	49.880868	ug/L	4.330	202966.770	KED
⌞	Mo-1	97	49.932387	ug/L	3.456	76641.868	KED
⌜	Sr	88	46.878831	ug/L	2.443	5714427.685	Standard
|	Ag	107	48.418678	ug/L	1.267	2376908.385	Standard
|	Ag-1	109	49.106039	ug/L	2.089	2312891.554	Standard
|	Cd	111	47.286860	ug/L	0.046	483775.640	Standard
|	Cd-1	114	45.855317	ug/L	0.453	1158719.848	Standard
|>	Rh	103		ug/L	1.113	1042559.423	Standard
|	Sn	118	46.559927	ug/L	2.692	1627153.166	Standard
|	Sb-1	121	46.142091	ug/L	4.067	1421921.837	Standard
⌞	Sb	123	45.063797	ug/L	1.076	1053470.181	Standard
⌜	Ba	135	48.752285	ug/L	2.819	414454.459	Standard
⌞>	Tb	159		ug/L	1.461	1186224.478	Standard
⌜>	Ho	165		ug/L	0.556	1151184.642	Standard
|	Tl-1	203	49.875346	ug/L	1.425	1954043.402	Standard
|	Tl	205	49.712574	ug/L	0.362	4790421.466	Standard
|	Pb-1	206	50.193394	ug/L	0.471	1656642.440	Standard
|	Pb-2	207	49.516164	ug/L	2.735	1477599.345	Standard
⌞	Pb	208	50.022052	ug/L	1.019	6704568.975	Standard
⌜	Ne	20		ug/L	1.856	387724.954	Standard
|	Na	23	2497.644005	ug/L	2.945	15026775.426	Standard
|	Mg	26	2546.513291	ug/L	2.509	8996702.680	Standard
|	K	39	2518.940319	ug/L	1.918	9851804.287	Standard
|	Ca	43	2533.464405	ug/L	2.725	340770.393	Standard
|	Fe	57	2559.661983	ug/L	2.432	4106354.440	Standard
⌞>	Sc-1	45		ug/L	2.140	810831.460	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1

Sample Date/Time: Tuesday, November 05, 2019 11:01:56

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110519B\SEQ-CCB1.009

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌜	B	11	-0.210306	ug/L	4.783	5062.898	Standard
|	Be	9	0.005463	ug/L	24.026	47.333	Standard
⌞>	Sc	45		ug/L	4.775	795082.775	Standard
⌜	Al	27	2.104930	ug/L	7.541	1218.052	KED
|	Ti	48	0.015868	ug/L	13.229	40.000	KED
|	V	51	-0.072619	ug/L	4.025	1164.714	KED
|	Cr	52	0.070827	ug/L	4.707	2893.627	KED
|	Cr-1	53	-0.200901	ug/L	1.939	722.018	KED
|	Mn	55	0.016452	ug/L	21.951	60.667	KED
|	Fe-1	57	0.610073	ug/L	6.840	171.334	KED
|	Co	59	0.013943	ug/L	10.862	129.334	KED
|	Ni	60	0.025582	ug/L	11.021	256.002	KED
|	Cu	63	0.019635	ug/L	18.232	276.003	KED
|	Cu-1	65	0.024190	ug/L	3.170	131.334	KED
|	Zn	66	0.312007	ug/L	4.921	496.675	KED
|	Zn-1	67	0.369662	ug/L	10.415	88.000	KED
|>	Ge	72		ug/L	6.656	90754.873	KED
|	As	75	0.006271	ug/L	20.031	36.000	KED
|	Se	82	1.029097	ug/L	47.587	25.333	KED
|	Se-1	78	-0.278289	ug/L	329.064	-2.110	KED
|	Se-2	77	-1.023625	ug/L	372.034	-2.776	KED
|	Mo	98	0.061795	ug/L	12.715	321.337	KED
⌞	Mo-1	97	0.050084	ug/L	8.951	114.667	KED
⌜	Sr	88	0.005475	ug/L	3.885	2265.513	Standard
|	Ag	107	0.004901	ug/L	12.355	432.673	Standard
|	Ag-1	109	0.004890	ug/L	9.435	396.006	Standard
|	Cd	111	0.005090	ug/L	10.189	102.000	Standard
|	Cd-1	114	0.006922	ug/L	13.851	455.341	Standard
|>	Rh	103		ug/L	2.712	1051709.882	Standard
|	Sn	118	0.016414	ug/L	3.809	6890.330	Standard
|	Sb-1	121	0.038144	ug/L	2.457	4437.356	Standard
⌞	Sb	123	0.040232	ug/L	4.861	3421.567	Standard
⌜	Ba	135	0.008089	ug/L	4.397	164.001	Standard
⌞>	Tb	159		ug/L	2.888	1217515.695	Standard
⌜>	Ho	165		ug/L	2.829	1180307.399	Standard
|	Tl-1	203	0.127777	ug/L	2.933	5708.474	Standard
|	Tl	205	0.129621	ug/L	6.563	14215.089	Standard
|	Pb-1	206	0.008798	ug/L	4.380	882.027	Standard
|	Pb-2	207	0.007089	ug/L	4.375	743.353	Standard
⌞	Pb	208	0.007811	ug/L	3.378	3442.829	Standard
⌜	Ne	20		ug/L	1.450	326616.719	Standard
|	Na	23	0.362266	ug/L	2.662	27200.550	Standard
|	Mg	26	0.244328	ug/L	6.450	11080.974	Standard
|	K	39	3.182743	ug/L	1.488	136699.013	Standard
|	Ca	43	6.177564	ug/L	4.532	1652.762	Standard
|	Fe	57	-1.530969	ug/L	4.766	36847.531	Standard
⌞>	Sc-1	45		ug/L	4.775	795082.775	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1

Sample Date/Time: Tuesday, November 05, 2019 11:07:15

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110519B\SEQ-CRL1.010

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌜	B	11	4.721728	ug/L	3.847	43730.897	Standard
|	Be	9	0.955566	ug/L	4.213	6198.679	Standard
⌞>	Sc	45		ug/L	3.541	828082.637	Standard
⌜	Al	27	51.115145	ug/L	3.120	6524.824	KED
|	Ti	48	4.795344	ug/L	2.443	4150.603	KED
|	V	51	0.955934	ug/L	2.119	4376.671	KED
|	Cr	52	1.136768	ug/L	2.605	7564.670	KED
|	Cr-1	53	0.967263	ug/L	4.026	1334.062	KED
|	Mn	55	1.104107	ug/L	3.960	1576.754	KED
|	Fe-1	57	54.194908	ug/L	0.529	3825.846	KED
|	Co	59	1.084485	ug/L	3.812	8077.619	KED
|	Ni	60	1.156464	ug/L	2.619	2784.938	KED
|	Cu	63	1.107464	ug/L	4.197	6576.182	KED
|	Cu-1	65	1.131037	ug/L	2.720	3376.399	KED
|	Zn	66	2.803987	ug/L	5.403	1642.761	KED
|	Zn-1	67	2.693728	ug/L	10.510	269.336	KED
|>	Ge	72		ug/L	0.477	97723.780	KED
|	As	75	1.101459	ug/L	4.833	313.337	KED
|	Se	82	2.387586	ug/L	8.813	34.667	KED
|	Se-1	78	0.967000	ug/L	40.058	12.578	KED
|	Se-2	77	2.146433	ug/L	62.405	9.245	KED
|	Mo	98	0.987984	ug/L	2.676	4193.282	KED
⌞	Mo-1	97	1.050757	ug/L	2.361	1692.100	KED
⌜	Sr	88	4.392312	ug/L	2.602	576779.494	Standard
|	Ag	107	0.905567	ug/L	2.603	47998.536	Standard
|	Ag-1	109	0.926450	ug/L	0.511	47098.179	Standard
|	Cd	111	0.895006	ug/L	0.536	9900.096	Standard
|	Cd-1	114	1.008191	ug/L	1.629	27689.480	Standard
|>	Rh	103		ug/L	5.432	1123171.570	Standard
|	Sn	118	4.410778	ug/L	0.213	171820.439	Standard
|	Sb-1	121	0.916726	ug/L	1.429	33765.195	Standard
⌞	Sb	123	0.881689	ug/L	0.788	24752.333	Standard
⌜	Ba	135	1.008168	ug/L	0.513	9170.943	Standard
⌞>	Tb	159		ug/L	5.016	1258437.504	Standard
⌜>	Ho	165		ug/L	5.051	1211299.383	Standard
|	Tl-1	203	1.049590	ug/L	2.204	43748.908	Standard
|	Tl	205	1.053105	ug/L	0.929	108045.065	Standard
|	Pb-1	206	0.982892	ug/L	3.378	34630.622	Standard
|	Pb-2	207	0.969982	ug/L	1.202	30938.135	Standard
⌞	Pb	208	0.989986	ug/L	0.664	141754.713	Standard
⌜	Ne	20		ug/L	2.183	305473.787	Standard
|	Na	23	42.780212	ug/L	1.705	288395.136	Standard
|	Mg	26	49.697990	ug/L	3.211	189784.500	Standard
|	K	39	44.952709	ug/L	1.329	307084.477	Standard
|	Ca	43	92.467831	ug/L	1.504	13536.411	Standard
|	Fe	57	48.434641	ug/L	2.847	119387.727	Standard
⌞>	Sc-1	45		ug/L	3.541	828082.637	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1

Sample Date/Time: Tuesday, November 05, 2019 11:12:34

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110519B\SEQ-CRL1.011

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌜	B	11	4.901336	ug/L	2.858	43205.271	Standard
|	Be	9	1.006087	ug/L	1.010	6255.369	Standard
⌞>	Sc	45		ug/L	3.299	792809.915	Standard
⌜	Al	27	47.415235	ug/L	1.101	5951.239	KED
|	Ti	48	5.191847	ug/L	2.319	4359.332	KED
|	V	51	1.039921	ug/L	2.752	4493.374	KED
|	Cr	52	1.152044	ug/L	3.119	7400.584	KED
|	Cr-1	53	1.039370	ug/L	3.179	1329.395	KED
|	Mn	55	1.067131	ug/L	5.743	1478.077	KED
|	Fe-1	57	53.382302	ug/L	5.283	3657.136	KED
|	Co	59	1.092452	ug/L	1.926	7906.188	KED
|	Ni	60	1.123002	ug/L	7.494	2624.909	KED
|	Cu	63	1.129155	ug/L	3.236	6501.480	KED
|	Cu-1	65	1.140731	ug/L	3.227	3301.715	KED
|	Zn	66	0.931272	ug/L	0.254	788.022	KED
|	Zn-1	67	0.910238	ug/L	7.815	131.334	KED
|>	Ge	72		ug/L	5.449	95080.649	KED
|	As	75	1.036880	ug/L	11.188	287.336	KED
|	Se	82	2.448656	ug/L	26.956	34.000	KED
|	Se-1	78	0.524268	ug/L	80.180	7.229	KED
|	Se-2	77	1.248514	ug/L	90.257	5.896	KED
|	Mo	98	1.042860	ug/L	2.792	4288.644	KED
⌞	Mo-1	97	1.020169	ug/L	3.012	1598.089	KED
⌜	Sr	88	4.713140	ug/L	2.524	584450.508	Standard
|	Ag	107	0.945997	ug/L	1.865	47304.877	Standard
|	Ag-1	109	0.923145	ug/L	0.081	44273.833	Standard
|	Cd	111	0.934773	ug/L	1.011	9751.327	Standard
|	Cd-1	114	1.050892	ug/L	2.823	27220.589	Standard
|>	Rh	103		ug/L	1.969	1057797.680	Standard
|	Sn	118	4.840646	ug/L	1.472	177281.377	Standard
|	Sb-1	121	0.946767	ug/L	0.842	32795.603	Standard
⌞	Sb	123	0.912232	ug/L	2.446	24075.349	Standard
⌜	Ba	135	0.981371	ug/L	4.583	8786.038	Standard
⌞>	Tb	159		ug/L	1.244	1235929.306	Standard
⌜>	Ho	165		ug/L	0.462	1184402.641	Standard
|	Tl-1	203	1.032738	ug/L	1.288	42199.576	Standard
|	Tl	205	1.046698	ug/L	1.139	105181.825	Standard
|	Pb-1	206	1.012592	ug/L	2.521	34964.086	Standard
|	Pb-2	207	0.971766	ug/L	0.616	30357.555	Standard
⌞	Pb	208	1.001615	ug/L	0.552	140464.759	Standard
⌜	Ne	20		ug/L	1.921	303253.660	Standard
|	Na	23	43.998522	ug/L	3.815	283236.214	Standard
|	Mg	26	50.682571	ug/L	1.846	185051.766	Standard
|	K	39	46.157156	ug/L	1.933	298521.531	Standard
|	Ca	43	56.642940	ug/L	2.937	8267.726	Standard
|	Fe	57	46.212566	ug/L	3.074	110959.522	Standard
⌞>	Sc-1	45		ug/L	3.299	792809.915	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1

Sample Date/Time: Tuesday, November 05, 2019 11:17:53

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110519B\SEQ-IFA1.012

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌜	B	11	-0.345762	ug/L	4.015	3823.179	Standard
|	Be	9	0.002223	ug/L	27.735	26.000	Standard
⌞>	Sc	45		ug/L	3.960	750793.070	Standard
⌜	Al	27	9837.485185	ug/L	0.984	925669.524	KED
|	Ti	48	210.158727	ug/L	3.646	159822.485	KED
|	V	51	-0.057409	ug/L	3.368	1156.047	KED
|	Cr	52	0.152384	ug/L	1.108	3069.663	KED
|	Cr-1	53	-0.095742	ug/L	5.979	734.686	KED
|	Mn	55	0.139141	ug/L	1.459	209.335	KED
|	Fe-1	57	10438.237394	ug/L	1.788	627677.605	KED
|	Co	59	0.048452	ug/L	5.713	350.671	KED
|	Ni	60	0.067470	ug/L	1.220	328.004	KED
|	Cu	63	0.063947	ug/L	0.710	488.008	KED
|	Cu-1	65	0.071000	ug/L	10.331	246.669	KED
|	Zn	66	0.174099	ug/L	6.331	420.673	KED
|	Zn-1	67	0.163451	ug/L	22.678	70.000	KED
|>	Ge	72		ug/L	0.698	86474.275	KED
|	As	75	0.056865	ug/L	2.547	45.333	KED
|	Se	82	0.726486	ug/L	30.987	22.667	KED
|	Se-1	78	-0.106840	ug/L	10071.235	-0.099	KED
|	Se-2	77	1.060984	ug/L	67.151	4.567	KED
|	Mo	98	213.294584	ug/L	2.912	784141.770	KED
⌞	Mo-1	97	213.080307	ug/L	2.338	295441.478	KED
⌜	Sr	88	0.085289	ug/L	0.994	10807.420	Standard
|	Ag	107	0.015869	ug/L	3.079	874.027	Standard
|	Ag-1	109	0.016194	ug/L	2.994	835.358	Standard
|	Cd	111	0.322762	ug/L	1.853	3023.653	Standard
|	Cd-1	114	0.205759	ug/L	2.371	4940.188	Standard
|>	Rh	103		ug/L	1.943	940997.238	Standard
|	Sn	118	0.108653	ug/L	2.417	9060.874	Standard
|	Sb-1	121	0.062991	ug/L	0.608	4660.093	Standard
⌞	Sb	123	0.055852	ug/L	2.777	3389.395	Standard
⌜	Ba	135	0.073738	ug/L	8.125	660.682	Standard
⌞>	Tb	159		ug/L	0.767	1092561.885	Standard
⌜>	Ho	165		ug/L	1.294	1036875.568	Standard
|	Tl-1	203	0.034155	ug/L	3.689	1716.770	Standard
|	Tl	205	0.035437	ug/L	1.598	4337.325	Standard
|	Pb-1	206	0.007896	ug/L	0.859	748.686	Standard
|	Pb-2	207	0.007680	ug/L	5.264	669.349	Standard
⌞	Pb	208	0.012705	ug/L	27.519	3618.896	Standard
⌜	Ne	20		ug/L	1.948	442134.629	Standard
|	Na	23	9890.669979	ug/L	2.615	54953251.632	Standard
|	Mg	26	9624.492180	ug/L	4.370	31455638.895	Standard
|	K	39	8719.853318	ug/L	2.860	31274124.665	Standard
|	Ca	43	9613.020487	ug/L	2.925	1194690.512	Standard
|	Fe	57	9349.466670	ug/L	2.542	13790391.538	Standard
⌞>	Sc-1	45		ug/L	3.960	750793.070	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1

Sample Date/Time: Tuesday, November 05, 2019 11:23:12

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110519B\SEQ-IFB1.013

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	-0.362931	ug/L	3.134	3525.769	Standard
|	Be	9	18.097132	ug/L	0.964	101380.480	Standard
⌊>	Sc	45		ug/L	1.885	715466.488	Standard
⌈	Al	27	9609.117711	ug/L	0.295	870962.201	KED
|	Ti	48	205.536024	ug/L	1.480	150540.475	KED
|	V	51	20.512635	ug/L	3.637	54227.484	KED
|	Cr	52	21.135743	ug/L	0.692	77348.171	KED
|	Cr-1	53	21.148234	ug/L	1.784	9292.355	KED
|	Mn	55	21.098422	ug/L	2.629	25011.219	KED
|	Fe-1	57	10220.436114	ug/L	1.817	591891.419	KED
|	Co	59	21.429261	ug/L	3.916	135457.826	KED
|	Ni	60	20.298341	ug/L	5.682	38513.289	KED
|	Cu	63	20.693688	ug/L	2.017	101969.392	KED
|	Cu-1	65	20.879387	ug/L	2.366	52062.062	KED
|	Zn	66	19.405650	ug/L	1.509	7680.731	KED
|	Zn-1	67	19.922877	ug/L	3.455	1333.396	KED
|>	Ge	72		ug/L	2.698	83334.472	KED
|	As	75	20.840442	ug/L	3.122	4486.705	KED
|	Se	82	24.506558	ug/L	24.042	132.667	KED
|	Se-1	78	20.250609	ug/L	8.549	203.918	KED
|	Se-2	77	21.664230	ug/L	25.429	69.917	KED
|	Mo	98	233.357860	ug/L	1.761	826234.208	KED
⌊	Mo-1	97	231.412978	ug/L	0.794	309022.699	KED
⌈	Sr	88	0.084858	ug/L	2.258	10497.190	Standard
|	Ag	107	18.694189	ug/L	0.699	808125.995	Standard
|	Ag-1	109	19.027999	ug/L	1.254	789273.324	Standard
|	Cd	111	19.477496	ug/L	1.033	175485.999	Standard
|	Cd-1	114	18.676336	ug/L	0.249	415681.659	Standard
|>	Rh	103		ug/L	1.271	917993.657	Standard
|	Sn	118	0.183834	ug/L	1.369	11144.346	Standard
|	Sb-1	121	19.236650	ug/L	0.688	523493.292	Standard
⌊	Sb	123	18.926720	ug/L	1.340	390834.333	Standard
⌈	Ba	135	19.510743	ug/L	2.056	149488.282	Standard
⌊>	Tb	159		ug/L	3.246	1069393.901	Standard
⌈>	Ho	165		ug/L	2.494	1021995.812	Standard
|	Tl-1	203	19.567250	ug/L	0.476	680633.808	Standard
|	Tl	205	19.850173	ug/L	1.756	1698450.627	Standard
|	Pb-1	206	19.599534	ug/L	1.258	574293.133	Standard
|	Pb-2	207	19.240594	ug/L	0.848	509901.508	Standard
⌊	Pb	208	19.618587	ug/L	0.089	2334834.585	Standard
⌈	Ne	20		ug/L	1.410	428146.590	Standard
|	Na	23	9955.173691	ug/L	2.967	52758868.851	Standard
|	Mg	26	9202.180251	ug/L	4.532	28653733.638	Standard
|	K	39	8833.368403	ug/L	1.441	30200637.027	Standard
|	Ca	43	9641.050936	ug/L	2.608	1141846.213	Standard
|	Fe	57	9595.054916	ug/L	1.849	13489380.533	Standard
⌊>	Sc-1	45		ug/L	1.885	715466.488	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2

Sample Date/Time: Tuesday, November 05, 2019 11:28:31

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110519B\SEQ-CCV2.014

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌜	B	11	46.957354	ug/L	4.349	336677.263	Standard
|	Be	9	48.079319	ug/L	2.475	281307.787	Standard
⌞>	Sc	45		ug/L	2.759	747262.427	Standard
⌜	Al	27	2572.904783	ug/L	3.293	252498.804	KED
|	Ti	48	50.028091	ug/L	1.130	39568.059	KED
|	V	51	50.899547	ug/L	3.454	143273.433	KED
|	Cr	52	51.880922	ug/L	3.011	201170.706	KED
|	Cr-1	53	51.672243	ug/L	0.869	23336.379	KED
|	Mn	55	50.338404	ug/L	2.788	64343.988	KED
|	Fe-1	57	2721.652454	ug/L	2.491	170229.303	KED
|	Co	59	52.633848	ug/L	3.592	359145.521	KED
|	Ni	60	51.525313	ug/L	5.762	105344.502	KED
|	Cu	63	53.081347	ug/L	2.691	282161.927	KED
|	Cu-1	65	53.520624	ug/L	3.836	143981.301	KED
|	Zn	66	47.452436	ug/L	5.027	19753.003	KED
|	Zn-1	67	48.816305	ug/L	4.032	3435.747	KED
|>	Ge	72		ug/L	3.451	89925.029	KED
|	As	75	49.874989	ug/L	4.556	11552.009	KED
|	Se	82	56.373813	ug/L	4.028	302.003	KED
|	Se-1	78	51.578948	ug/L	4.507	558.605	KED
|	Se-2	77	52.123177	ug/L	1.702	180.595	KED
|	Mo	98	51.643086	ug/L	4.932	197524.349	KED
⌞	Mo-1	97	51.135111	ug/L	3.080	73748.656	KED
⌜	Sr	88	48.942906	ug/L	1.386	5582782.298	Standard
|	Ag	107	49.030770	ug/L	1.268	2252158.635	Standard
|	Ag-1	109	50.141056	ug/L	2.003	2210208.584	Standard
|	Cd	111	48.370285	ug/L	3.150	463108.776	Standard
|	Cd-1	114	47.996518	ug/L	3.138	1135040.574	Standard
|>	Rh	103		ug/L	0.841	975530.466	Standard
|	Sn	118	47.800770	ug/L	2.327	1562920.682	Standard
|	Sb-1	121	47.925278	ug/L	2.044	1381640.910	Standard
⌞	Sb	123	46.884547	ug/L	2.716	1025539.525	Standard
⌜	Ba	135	48.907993	ug/L	4.444	400068.982	Standard
⌞>	Tb	159		ug/L	1.894	1141186.445	Standard
⌜>	Ho	165		ug/L	2.154	1073926.343	Standard
|	Tl-1	203	51.696152	ug/L	1.933	1888839.111	Standard
|	Tl	205	51.551064	ug/L	0.942	4633371.630	Standard
|	Pb-1	206	50.862386	ug/L	2.622	1566217.318	Standard
|	Pb-2	207	51.065774	ug/L	1.348	1421563.945	Standard
⌞	Pb	208	51.551307	ug/L	1.844	6445832.509	Standard
⌜	Ne	20		ug/L	1.631	358294.237	Standard
|	Na	23	2594.894746	ug/L	4.642	14382943.621	Standard
|	Mg	26	2678.146918	ug/L	3.373	8716692.292	Standard
|	K	39	2625.990332	ug/L	2.284	9457775.759	Standard
|	Ca	43	2619.396297	ug/L	2.847	324660.977	Standard
|	Fe	57	2624.066468	ug/L	2.559	3880547.249	Standard
⌞>	Sc-1	45		ug/L	2.759	747262.427	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2

Sample Date/Time: Tuesday, November 05, 2019 11:33:50

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110519B\SEQ-CCB2.015

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	-0.305010	ug/L	2.975	3965.884	Standard
|	Be	9	0.010499	ug/L	2.778	72.000	Standard
|>	Sc	45		ug/L	10.943	728638.266	Standard
⌈	Al	27	1.547616	ug/L	7.372	1152.047	KED
|	Ti	48	0.048330	ug/L	28.063	64.667	KED
|	V	51	-0.110323	ug/L	6.058	1047.372	KED
|	Cr	52	0.044309	ug/L	2.198	2762.267	KED
|	Cr-1	53	-0.314526	ug/L	8.187	663.349	KED
|	Mn	55	0.020556	ug/L	24.804	66.000	KED
|	Fe-1	57	0.805539	ug/L	13.613	181.334	KED
|	Co	59	0.015744	ug/L	30.102	140.001	KED
|	Ni	60	0.026253	ug/L	18.870	255.336	KED
|	Cu	63	0.021144	ug/L	7.086	278.003	KED
|	Cu-1	65	0.033653	ug/L	15.469	155.334	KED
|	Zn	66	0.161356	ug/L	5.693	429.340	KED
|	Zn-1	67	0.198399	ug/L	11.152	74.667	KED
|>	Ge	72		ug/L	2.666	89404.352	KED
|	As	75	-0.016533	ug/L	35.277	30.000	KED
|	Se	82	0.042346	ug/L	20.000	20.000	KED
|	Se-1	78	-0.601423	ug/L	42.675	-5.412	KED
|	Se-2	77	0.606404	ug/L	154.344	3.255	KED
|	Mo	98	0.078867	ug/L	18.779	380.005	KED
⌊	Mo-1	97	0.078935	ug/L	12.170	155.334	KED
⌈	Sr	88	0.007197	ug/L	9.421	2232.175	Standard
|	Ag	107	0.006397	ug/L	11.907	457.341	Standard
|	Ag-1	109	0.007435	ug/L	16.966	462.674	Standard
|	Cd	111	0.007595	ug/L	15.038	114.667	Standard
|	Cd-1	114	0.007853	ug/L	5.934	434.673	Standard
|>	Rh	103		ug/L	11.772	961966.121	Standard
|	Sn	118	0.027200	ug/L	3.389	6568.844	Standard
|	Sb-1	121	0.051383	ug/L	3.350	4382.006	Standard
⌊	Sb	123	0.047707	ug/L	1.988	3251.942	Standard
⌈	Ba	135	0.009594	ug/L	4.507	160.001	Standard
⌊>	Tb	159		ug/L	9.997	1110293.279	Standard
⌈>	Ho	165		ug/L	9.464	1067679.860	Standard
|	Tl-1	203	0.132877	ug/L	8.618	5290.318	Standard
|	Tl	205	0.134680	ug/L	5.996	13198.776	Standard
|	Pb-1	206	0.010252	ug/L	2.394	836.691	Standard
|	Pb-2	207	0.009357	ug/L	8.136	728.019	Standard
⌊	Pb	208	0.010648	ug/L	6.523	3435.499	Standard
⌈	Ne	20		ug/L	1.888	301032.038	Standard
|	Na	23	0.917873	ug/L	2.057	27666.104	Standard
|	Mg	26	0.818236	ug/L	5.074	11826.235	Standard
|	K	39	6.429553	ug/L	1.523	135592.546	Standard
|	Ca	43	7.205753	ug/L	3.452	1620.759	Standard
|	Fe	57	0.887716	ug/L	0.380	36926.998	Standard
⌊>	Sc-1	45		ug/L	10.943	728638.266	Standard

Quantitative Analysis - Summary Report

Sample ID: BJ91907-BLK1

Sample Date/Time: Tuesday, November 05, 2019 11:39:09

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110519B\BJ91907-BLK1.016

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌜	B	11	-0.333304	ug/L	4.094	3991.892	Standard
|	Be	9	-0.000213	ug/L	28.868	12.000	Standard
⌞>	Sc	45		ug/L	1.965	766034.233	Standard
⌜	Al	27	16.169693	ug/L	4.966	2609.572	KED
|	Ti	48	0.069372	ug/L	34.978	81.334	KED
|	V	51	0.009300	ug/L	1.247	1398.068	KED
|	Cr	52	-0.408240	ug/L	4.697	1055.372	KED
|	Cr-1	53	-0.422220	ug/L	2.125	626.680	KED
|	Mn	55	-0.004119	ug/L	23.316	34.667	KED
|	Fe-1	57	0.243631	ug/L	17.253	148.001	KED
|	Co	59	0.001952	ug/L	19.516	47.333	KED
|	Ni	60	-0.069444	ug/L	11.175	62.000	KED
|	Cu	63	0.088082	ug/L	3.505	641.348	KED
|	Cu-1	65	0.090867	ug/L	6.182	312.003	KED
|	Zn	66	-0.412122	ug/L	8.888	200.001	KED
|	Zn-1	67	-0.373887	ug/L	20.031	36.000	KED
|>	Ge	72		ug/L	5.795	90819.076	KED
|	As	75	-0.020387	ug/L	23.945	29.333	KED
|	Se	82	-1.654370	ug/L	72.648	12.000	KED
|	Se-1	78	-0.009157	ug/L	522.321	1.245	KED
|	Se-2	77	0.185433	ug/L	380.040	1.911	KED
|	Mo	98	0.033737	ug/L	9.106	213.335	KED
⌞	Mo-1	97	0.036492	ug/L	12.293	95.334	KED
⌜	Sr	88	0.009830	ug/L	6.287	2768.936	Standard
|	Ag	107	0.000066	ug/L	5.413	192.001	Standard
|	Ag-1	109	0.000922	ug/L	13.080	205.335	Standard
|	Cd	111	0.009120	ug/L	24.051	142.667	Standard
|	Cd-1	114	0.012309	ug/L	6.208	584.679	Standard
|>	Rh	103		ug/L	4.125	1038530.246	Standard
|	Sn	118	0.042385	ug/L	1.149	7696.073	Standard
|	Sb-1	121	-0.062598	ug/L	3.382	1298.726	Standard
⌞	Sb	123	-0.062825	ug/L	2.734	982.020	Standard
⌜	Ba	135	0.013454	ug/L	19.207	204.668	Standard
⌞>	Tb	159		ug/L	0.492	1182777.327	Standard
⌜>	Ho	165		ug/L	1.604	1136037.915	Standard
|	Tl-1	203	0.045353	ug/L	7.566	2314.855	Standard
|	Tl	205	0.044117	ug/L	5.186	5578.424	Standard
|	Pb-1	206	-0.007287	ug/L	11.494	326.004	Standard
|	Pb-2	207	-0.008794	ug/L	1.229	248.669	Standard
⌞	Pb	208	-0.007929	ug/L	2.664	1236.021	Standard
⌜	Ne	20		ug/L	1.755	278602.314	Standard
|	Na	23	-0.208139	ug/L	0.864	22983.808	Standard
|	Mg	26	-1.901873	ug/L	7.121	3513.767	Standard
|	K	39	0.412922	ug/L	2.862	121685.674	Standard
|	Ca	43	3.512427	ug/L	3.013	1254.722	Standard
|	Fe	57	1.157214	ug/L	1.170	39551.347	Standard
⌞>	Sc-1	45		ug/L	1.965	766034.233	Standard

Quantitative Analysis - Summary Report

Sample ID: BJ91907-BS1

Sample Date/Time: Tuesday, November 05, 2019 11:44:28

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110519B\BJ91907-BS1.017

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌜	B	11	45.748368	ug/L	1.874	333113.889	Standard
|	Be	9	45.521350	ug/L	1.608	270284.684	Standard
⌞>	Sc	45		ug/L	1.390	758442.322	Standard
⌜	Al	27	2255.067899	ug/L	3.752	218166.114	KED
|	Ti	48	48.010906	ug/L	4.905	37435.731	KED
|	V	51	47.951451	ug/L	4.820	133050.325	KED
|	Cr	52	49.253640	ug/L	4.084	188309.679	KED
|	Cr-1	53	48.330801	ug/L	2.431	21564.937	KED
|	Mn	55	48.036411	ug/L	2.070	60515.272	KED
|	Fe-1	57	2310.900271	ug/L	4.852	142472.686	KED
|	Co	59	48.942663	ug/L	4.903	329056.457	KED
|	Ni	60	49.240391	ug/L	4.529	99176.870	KED
|	Cu	63	50.115053	ug/L	3.285	262494.009	KED
|	Cu-1	65	50.878286	ug/L	1.980	134810.597	KED
|	Zn	66	46.309783	ug/L	1.868	18991.952	KED
|	Zn-1	67	46.884440	ug/L	0.646	3253.037	KED
|>	Ge	72		ug/L	1.435	88573.775	KED
|	As	75	49.047128	ug/L	3.301	11191.052	KED
|	Se	82	46.151542	ug/L	7.686	247.335	KED
|	Se-1	78	47.194697	ug/L	8.525	504.530	KED
|	Se-2	77	44.999776	ug/L	3.435	153.855	KED
|	Mo	98	47.660551	ug/L	3.094	179560.124	KED
⌞	Mo-1	97	47.914773	ug/L	3.059	68092.663	KED
⌜	Sr	88	44.323688	ug/L	2.669	5160717.614	Standard
|	Ag	107	44.921151	ug/L	1.654	2106364.742	Standard
|	Ag-1	109	43.501237	ug/L	1.921	1957428.061	Standard
|	Cd	111	44.699920	ug/L	1.178	436797.769	Standard
|	Cd-1	114	43.334195	ug/L	0.554	1045910.093	Standard
|>	Rh	103		ug/L	0.567	995771.155	Standard
|	Sn	118	44.337447	ug/L	1.167	1480087.432	Standard
|	Sb-1	121	43.605313	ug/L	0.592	1283380.356	Standard
⌞	Sb	123	43.306933	ug/L	1.688	967043.127	Standard
⌜	Ba	135	46.155844	ug/L	0.822	374975.700	Standard
⌞>	Tb	159		ug/L	1.821	1133885.911	Standard
⌜>	Ho	165		ug/L	1.460	1087804.397	Standard
|	Tl-1	203	47.685792	ug/L	0.783	1765112.327	Standard
|	Tl	205	47.977591	ug/L	0.474	4368019.518	Standard
|	Pb-1	206	48.535426	ug/L	0.784	1513670.755	Standard
|	Pb-2	207	47.639858	ug/L	1.742	1343107.520	Standard
⌞	Pb	208	48.458032	ug/L	1.020	6136653.880	Standard
⌜	Ne	20		ug/L	1.678	377318.885	Standard
|	Na	23	2206.685158	ug/L	3.143	12418205.198	Standard
|	Mg	26	2261.284881	ug/L	2.095	7473521.712	Standard
|	K	39	2366.380015	ug/L	2.637	8663289.850	Standard
|	Ca	43	2232.277493	ug/L	1.753	280938.068	Standard
|	Fe	57	2215.980727	ug/L	2.478	3332392.427	Standard
⌞>	Sc-1	45		ug/L	1.390	758442.322	Standard

Quantitative Analysis - Summary Report

Sample ID: 19J1295-01

Sample Date/Time: Tuesday, November 05, 2019 11:55:06

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110519B\19J1295-01.019

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌜	B	11	29.789672	ug/L	2.095	385033.234	Standard
|	Be	9	0.590659	ug/L	1.456	6184.672	Standard
⌞>	Sc	45		ug/L	2.826	1332863.959	Standard
⌜	Al	27	23684.711585	ug/L	1.883	1496907.183	KED
|	Ti	48	733.061040	ug/L	2.526	374637.461	KED
|	V	51	46.922840	ug/L	2.103	85428.746	KED
|	Cr	52	38.290211	ug/L	1.039	96400.855	KED
|	Cr-1	53	38.297181	ug/L	2.849	11319.152	KED
|	Mn	55	8655.386956	ug/L	1.272	7148585.755	KED
|	Fe-1	57	59672.895036	ug/L	1.700	2410632.772	KED
|	Co	59	119.644782	ug/L	3.924	527526.847	KED
|	Ni	60	335.290687	ug/L	0.956	442140.898	KED
|	Cu	63	101.253258	ug/L	2.244	347809.106	KED
|	Cu-1	65	102.317721	ug/L	1.221	177817.261	KED
|	Zn	66	176.061490	ug/L	0.708	46702.885	KED
|	Zn-1	67	178.097993	ug/L	1.027	7996.904	KED
|>	Ge	72		ug/L	1.336	58112.638	KED
|	As	75	40.708071	ug/L	2.627	6096.635	KED
|	Se	82	101.101574	ug/L	5.794	340.004	KED
|	Se-1	78	15.176917	ug/L	14.243	106.790	KED
|	Se-2	77	96.717913	ug/L	2.730	216.126	KED
|	Mo	98	3.457109	ug/L	1.234	8593.251	KED
⌞	Mo-1	97	3.467928	ug/L	1.149	3257.705	KED
⌜	Sr	88	1437.926941	ug/L	2.924	89156214.570	Standard
|	Ag	107	0.199111	ug/L	1.440	5067.565	Standard
|	Ag-1	109	0.086433	ug/L	3.297	2154.163	Standard
|	Cd	111	10.444590	ug/L	0.926	54377.970	Standard
|	Cd-1	114	9.830952	ug/L	1.799	126491.656	Standard
|>	Rh	103		ug/L	1.179	530346.487	Standard
|	Sn	118	0.715241	ug/L	0.744	15848.787	Standard
|	Sb-1	121	0.980984	ug/L	0.554	16981.420	Standard
⌞	Sb	123	1.027904	ug/L	1.536	13443.080	Standard
⌜	Ba	135	174.630772	ug/L	1.773	1361569.174	Standard
⌞>	Tb	159		ug/L	1.218	1088248.807	Standard
⌜>	Ho	165		ug/L	0.627	1014301.278	Standard
|	Tl-1	203	0.313756	ug/L	1.316	11327.823	Standard
|	Tl	205	0.321580	ug/L	1.511	28529.129	Standard
|	Pb-1	206	57.717360	ug/L	0.204	1678415.250	Standard
|	Pb-2	207	53.959128	ug/L	0.660	1418789.067	Standard
⌞	Pb	208	55.164883	ug/L	0.728	6514544.153	Standard
⌜	Ne	20		ug/L	3.570	4677597.437	Standard
|	Na	23	89688.004536	ug/L	1.862	885300139.053	Standard
|	Mg	26	25278.045502	ug/L	3.160	146667425.722	Standard
|	K	39	457.264433	ug/L	1.531	3109310.413	Standard
|	Ca	44	114830.303202	ug/L	3.428	25328995.641	Standard
|	Fe	57	16595.966389	ug/L	3.563	43418736.741	Standard
⌞>	Sc-1	45		ug/L	2.826	1332863.959	Standard

Quantitative Analysis - Summary Report

Sample ID: 19J1295-02

Sample Date/Time: Tuesday, November 05, 2019 12:00:25

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110519B\19J1295-02.020

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌜	B	11	207.032562	ug/L	4.075	1267300.355	Standard
|	Be	9	0.013165	ug/L	8.882	78.000	Standard
⌞>	Sc	45		ug/L	2.405	647555.165	Standard
⌜	Al	27	186.832322	ug/L	0.881	13822.017	KED
|	Ti	48	146.569873	ug/L	1.258	83158.024	KED
|	V	51	0.525796	ug/L	9.351	2029.478	KED
|	Cr	52	1.432425	ug/L	1.689	5804.513	KED
|	Cr-1	53	0.841930	ug/L	3.464	841.358	KED
|	Mn	55	5273.042512	ug/L	2.944	4834487.575	KED
|	Fe-1	57	2035.795840	ug/L	1.411	91382.718	KED
|	Co	59	2.144780	ug/L	2.457	10521.208	KED
|	Ni	60	37.840197	ug/L	2.890	55523.751	KED
|	Cu	63	6.186937	ug/L	1.967	23696.308	KED
|	Cu-1	65	6.270467	ug/L	1.885	12140.491	KED
|	Zn	66	17.553056	ug/L	2.650	5404.356	KED
|	Zn-1	67	19.526555	ug/L	3.991	1012.703	KED
|>	Ge	72		ug/L	0.874	64499.285	KED
|	As	75	0.879320	ug/L	7.715	170.001	KED
|	Se	82	2.884986	ug/L	16.878	24.667	KED
|	Se-1	78	-0.031373	ug/L	1177.916	0.547	KED
|	Se-2	77	0.957813	ug/L	475.173	3.213	KED
|	Mo	98	5.433466	ug/L	1.848	14955.159	KED
⌊	Mo-1	97	5.518108	ug/L	1.364	5736.485	KED
⌜	Sr	88	286.928534	ug/L	2.313	24427779.903	Standard
|	Ag	107	0.008717	ug/L	5.871	431.340	Standard
|	Ag-1	109	0.007425	ug/L	9.676	358.005	Standard
|	Cd	111	0.936351	ug/L	3.430	6726.251	Standard
|	Cd-1	114	0.876257	ug/L	1.800	15659.914	Standard
|>	Rh	103		ug/L	0.573	728303.134	Standard
|	Sn	118	0.147417	ug/L	3.895	7958.885	Standard
|	Sb-1	121	0.110726	ug/L	2.710	4632.751	Standard
⌊	Sb	123	0.118460	ug/L	3.203	3643.413	Standard
⌜	Ba	135	56.976333	ug/L	2.074	373554.314	Standard
⌞>	Tb	159		ug/L	1.728	915035.728	Standard
⌜>	Ho	165		ug/L	1.681	897899.570	Standard
|	Tl-1	203	0.058684	ug/L	2.707	2236.175	Standard
|	Tl	205	0.059633	ug/L	3.131	5571.087	Standard
|	Pb-1	206	0.719567	ug/L	1.830	18961.245	Standard
|	Pb-2	207	0.674015	ug/L	0.967	16081.714	Standard
⌊	Pb	208	0.702061	ug/L	1.009	75157.217	Standard
⌜	Ne	20		ug/L	0.629	1374391.135	Standard
|	Na	23	5271.423664	ug/L	1.491	1080286068.359	Standard
|	Mg	26	9036.246962	ug/L	0.996	25467357.158	Standard
|	K	39	4106.722832	ug/L	3.996	12759252.663	Standard
|	Ca	4?	7955.375692	ug/L	1.459	8352254.714	Standard
|	Fe	57	1802.974184	ug/L	1.055	2319667.550	Standard
⌞>	Sc-1	45		ug/L	2.405	647555.165	Standard

Quantitative Analysis - Summary Report

Sample ID: 19J1295-03

Sample Date/Time: Tuesday, November 05, 2019 12:05:44

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110519B\19J1295-03.021

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	55.398684	ug/L	2.075	322545.612	Standard
|	Be	9	0.002827	ug/L	16.667	24.000	Standard
|>	Sc	45		ug/L	2.251	608643.305	Standard
⌈	Al	27	52.829596	ug/L	3.950	3991.225	KED
|	Ti	48	192.545211	ug/L	3.579	98518.157	KED
|	V	51	1.730758	ug/L	3.876	4001.894	KED
|	Cr	52	-0.090930	ug/L	4.686	1462.742	KED
|	Cr-1	53	-0.487556	ug/L	4.235	384.672	KED
|	Mn	55	2219.160813	ug/L	2.533	1835356.806	KED
|	Fe-1	57	72.314579	ug/L	2.347	3012.318	KED
|	Co	59	0.295206	ug/L	5.055	1326.728	KED
|	Ni	60	3.170975	ug/L	4.409	4314.652	KED
|	Cu	63	1.677452	ug/L	2.025	5878.543	KED
|	Cu-1	65	1.746951	ug/L	3.884	3080.332	KED
|	Zn	66	7.490509	ug/L	1.839	2218.839	KED
|	Zn-1	67	10.844155	ug/L	3.238	525.343	KED
|>	Ge	72		ug/L	5.461	58362.542	KED
|	As	75	2.613332	ug/L	9.451	412.006	KED
|	Se	82	2.965426	ug/L	28.364	22.667	KED
|	Se-1	78	1.784150	ug/L	61.409	13.234	KED
|	Se-2	77	5.227778	ug/L	127.237	11.901	KED
|	Mo	98	8.591233	ug/L	2.589	21326.581	KED
⌊	Mo-1	97	8.596629	ug/L	4.602	8044.267	KED
⌈	Sr	88	400.311575	ug/L	4.172	30961059.865	Standard
|	Ag	107	0.004165	ug/L	8.352	250.002	Standard
|	Ag-1	109	0.002412	ug/L	3.485	175.334	Standard
|	Cd	111	0.210603	ug/L	7.775	1398.069	Standard
|	Cd-1	114	0.202211	ug/L	3.845	3417.743	Standard
|>	Rh	103		ug/L	1.454	661519.012	Standard
|	Sn	118	0.116453	ug/L	4.723	6546.168	Standard
|	Sb-1	121	0.905489	ug/L	0.779	19708.920	Standard
⌊	Sb	123	0.932031	ug/L	2.224	15347.832	Standard
⌈	Ba	135	45.723468	ug/L	0.481	290121.736	Standard
⌊>	Tb	159		ug/L	1.127	885523.022	Standard
⌈>	Ho	165		ug/L	1.043	869083.767	Standard
|	Tl-1	203	0.061132	ug/L	3.388	2237.509	Standard
|	Tl	205	0.061126	ug/L	2.515	5502.393	Standard
|	Pb-1	206	0.071431	ug/L	0.873	2210.171	Standard
|	Pb-2	207	0.064349	ug/L	0.939	1837.452	Standard
⌊	Pb	208	0.069546	ug/L	0.173	8782.407	Standard
⌈	Ne	20		ug/L	1.576	1656571.073	Standard
|	Na	23	S	ug/L	S	S	Standard
|	Mg	24	16311.905201	ug/L	4.208	43228086.433	Standard
|	K	39	520.589486	ug/L	9.115	1601712.163	Standard
|	Ca	43	95643.083274	ug/L	2.451	9633307.842	Standard
|	Fe	57	347.373116	ug/L	3.489	444519.321	Standard
⌊>	Sc-1	45		ug/L	2.251	608643.305	Standard

Quantitative Analysis - Summary Report

Sample ID: 19J1295-04

Sample Date/Time: Tuesday, November 05, 2019 12:11:02

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110519B\19J1295-04.022

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	6.231345	ug/L	2.558	175945.994	Standard
|	Be	9	1.013746	ug/L	0.521	20866.562	Standard
|>	Sc	45		ug/L	3.640	2625274.538	Standard
⌈	Al		739289.343996	ug/L	0.688	17639228.686	KED
|	Ti	48	4183.794513	ug/L	1.663	807521.037	KED
|	V	51	1248.588892	ug/L	1.467	849967.042	KED
|	Cr	52	1250.522136	ug/L	1.419	1168955.900	KED
|	Cr-1	53	1307.469839	ug/L	1.876	139421.193	KED
|	Mn		554376.386919	ug/L	1.418	16962336.727	KED
|	Fe-1		1283143.990147	ug/L	1.600	19578156.228	KED
|	Co	59	647.976984	ug/L	1.735	1079077.062	KED
|	Ni	60	1598.490373	ug/L	1.537	795959.874	KED
|	Cu	63	845.274355	ug/L	1.752	1096221.110	KED
|	Cu-1	65	849.387399	ug/L	1.590	557395.799	KED
|	Zn	66	2859.864582	ug/L	1.172	285199.643	KED
|	Zn-1	67	2787.527101	ug/L	0.757	47058.048	KED
|>	Ge	72		ug/L	1.042	21950.853	KED
|	As	75	403.586631	ug/L	0.834	22755.443	KED
|	Se	82	304.816758	ug/L	4.117	377.338	KED
|	Se-1	78	44.851094	ug/L	11.052	118.660	KED
|	Se-2	77	403.877821	ug/L	12.825	339.999	KED
|	Mo	98	46.107755	ug/L	0.888	43040.744	KED
⌊	Mo-1	97	45.270518	ug/L	1.696	15941.558	KED
⌈	Sr	88	6469.206005	ug/L	2.093	112275705.501	Standard
|	Ag	107	3.465737	ug/L	0.997	24251.903	Standard
|	Ag-1	109	3.224688	ug/L	0.720	21651.729	Standard
|	Cd	111	271.864111	ug/L	0.934	396025.871	Standard
|	Cd-1	114	259.649047	ug/L	1.149	934092.130	Standard
|>	Rh	103		ug/L	0.875	148455.417	Standard
|	Sn	118	15.006475	ug/L	2.186	75263.804	Standard
|	Sb-1	121	1.927899	ug/L	2.470	8898.772	Standard
⌊	Sb	123	2.294637	ug/L	4.870	7968.966	Standard
⌈	Ba	135	959.895117	ug/L	0.970	9179890.459	Standard
⌊>	Tb	159		ug/L	1.440	1334954.964	Standard
⌈>	Ho	165		ug/L	1.115	1216071.075	Standard
|	Tl-1	203	2.476043	ug/L	0.848	103040.288	Standard
|	Tl	205	2.464623	ug/L	0.773	252287.638	Standard
|	Pb-1	206	232.784180	ug/L	0.151	8113615.830	Standard
|	Pb-2	207	217.477650	ug/L	0.628	6854205.418	Standard
⌊	Pb	208	225.752503	ug/L	0.496	31955349.018	Standard
⌈	Ne	20		ug/L	2.956	1185122.934	Standard
|	Na		229056.438705	ug/L	1.628	564815322.709	Standard
|	Mg		2619865.307322	ug/L	8.048	227288763.765	Standard
|	K	39	57.848679	ug/L	3.757	1134659.427	Standard
|	Ca		4368789.246683	ug/L	3.998	29888332.768	Standard
|	Fe		547306.959592	ug/L	3.960	243600972.753	Standard
⌊>	Sc-1	45		ug/L	3.640	2625274.538	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3

Sample Date/Time: Tuesday, November 05, 2019 12:32:16

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110519B\SEQ-CCV3.026

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	74.384155	ug/L	1.374	537377.042	Standard
|	Be	9	50.485079	ug/L	0.584	299605.861	Standard
|>	Sc	45		ug/L	4.916	759044.032	Standard
⌈	Al	27	2707.800417	ug/L	1.601	269947.730	KED
|	Ti	48	52.111163	ug/L	0.751	41892.671	KED
|	V	51	51.368060	ug/L	1.453	146884.031	KED
|	Cr	52	51.771922	ug/L	1.452	203991.650	KED
|	Cr-1	53	52.494658	ug/L	1.343	24087.626	KED
|	Mn	55	53.732169	ug/L	1.583	69806.834	KED
|	Fe-1	57	2782.649174	ug/L	2.372	176853.705	KED
|	Co	59	52.245286	ug/L	1.629	362200.936	KED
|	Ni	60	52.400791	ug/L	2.481	108818.379	KED
|	Cu	63	52.382485	ug/L	1.591	282910.331	KED
|	Cu-1	65	52.404386	ug/L	1.694	143217.785	KED
|	Zn	66	47.309351	ug/L	2.194	20004.000	KED
|	Zn-1	67	49.414432	ug/L	2.688	3533.104	KED
|>	Ge	72		ug/L	0.667	91356.521	KED
|	As	75	52.461738	ug/L	1.289	12341.996	KED
|	Se	82	50.124066	ug/L	18.947	275.336	KED
|	Se-1	78	52.451449	ug/L	6.632	577.934	KED
|	Se-2	77	57.918983	ug/L	5.181	203.923	KED
|	Mo	98	50.328178	ug/L	0.925	195531.790	KED
⌊	Mo-1	97	50.101804	ug/L	1.268	73420.875	KED
⌈	Sr	88	46.950950	ug/L	5.058	5362051.237	Standard
|	Ag	107	48.657301	ug/L	1.347	2236672.690	Standard
|	Ag-1	109	50.338264	ug/L	1.867	2220526.616	Standard
|	Cd	111	48.357568	ug/L	1.591	463199.455	Standard
|	Cd-1	114	47.584868	ug/L	5.413	1126506.865	Standard
|>	Rh	103		ug/L	1.997	976301.847	Standard
|	Sn	118	48.097909	ug/L	3.351	1573732.166	Standard
|	Sb-1	121	47.968877	ug/L	0.530	1383593.976	Standard
⌊	Sb	123	47.924367	ug/L	2.740	1049101.765	Standard
⌈	Ba	135	48.520514	ug/L	1.385	395878.914	Standard
⌊>	Tb	159		ug/L	0.172	1138613.169	Standard
⌈>	Ho	165		ug/L	2.329	1103023.348	Standard
|	Tl-1	203	53.685537	ug/L	1.998	2014975.399	Standard
|	Tl	205	52.330091	ug/L	0.934	4830475.312	Standard
|	Pb-1	206	53.345306	ug/L	0.891	1686323.910	Standard
|	Pb-2	207	52.494898	ug/L	1.699	1500647.891	Standard
⌊	Pb	208	52.968261	ug/L	1.831	6801137.095	Standard
⌈	Ne	20		ug/L	0.692	405415.004	Standard
|	Na	23	2834.390534	ug/L	2.458	15941106.116	Standard
|	Mg	26	2339.666044	ug/L	2.166	7733118.637	Standard
|	K	39	3479.629447	ug/L	1.643	12681969.237	Standard
|	Ca	43	2705.041904	ug/L	3.218	340361.580	Standard
|	Fe	57	2521.209948	ug/L	3.601	3786667.543	Standard
⌊>	Sc-1	45		ug/L	4.916	759044.032	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3

Sample Date/Time: Tuesday, November 05, 2019 12:37:35

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110519B\SEQ-CCB3.027

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	18.536180	ug/L	1.893	143220.512	Standard
|	Be	9	0.009849	ug/L	23.562	74.000	Standard
⌊>	Sc	45		ug/L	0.795	782971.052	Standard
⌈	Al	27	4.407902	ug/L	0.488	1440.739	KED
|	Ti	48	0.052387	ug/L	21.070	68.667	KED
|	V	51	-0.063893	ug/L	2.244	1186.716	KED
|	Cr	52	0.057272	ug/L	3.113	2834.948	KED
|	Cr-1	53	-0.268160	ug/L	9.624	689.350	KED
|	Mn	55	0.310348	ug/L	11.250	438.007	KED
|	Fe-1	57	5.583975	ug/L	6.038	482.675	KED
|	Co	59	0.018313	ug/L	11.390	159.334	KED
|	Ni	60	0.020886	ug/L	9.113	246.669	KED
|	Cu	63	0.021785	ug/L	1.863	284.003	KED
|	Cu-1	65	0.028786	ug/L	8.411	143.334	KED
|	Zn	66	0.195185	ug/L	4.985	447.340	KED
|	Zn-1	67	0.059485	ug/L	27.773	66.000	KED
| >	Ge	72		ug/L	2.158	90134.877	KED
|	As	75	0.023307	ug/L	25.082	39.333	KED
|	Se	82	1.203884	ug/L	27.735	26.000	KED
|	Se-1	78	-0.858024	ug/L	85.766	-8.110	KED
|	Se-2	77	-0.733808	ug/L	210.301	-1.443	KED
|	Mo	98	0.060436	ug/L	9.929	314.003	KED
⌊	Mo-1	97	0.064540	ug/L	17.128	135.334	KED
⌈	Sr	88	0.048308	ug/L	9.038	7339.895	Standard
|	Ag	107	0.004310	ug/L	15.474	394.672	Standard
|	Ag-1	109	0.004770	ug/L	5.392	380.672	Standard
|	Cd	111	0.006707	ug/L	19.583	116.000	Standard
|	Cd-1	114	0.006245	ug/L	8.915	428.006	Standard
| >	Rh	103		ug/L	1.931	1024691.601	Standard
|	Sn	118	0.020586	ug/L	1.640	6856.979	Standard
|	Sb-1	121	0.045794	ug/L	3.882	4554.060	Standard
⌊	Sb	123	0.045115	ug/L	3.661	3441.902	Standard
⌈	Ba	135	0.025641	ug/L	13.847	300.670	Standard
⌊>	Tb	159		ug/L	1.553	1153639.793	Standard
⌈>	Ho	165		ug/L	1.145	1123557.007	Standard
|	Tl-1	203	0.105737	ug/L	6.380	4594.741	Standard
|	Tl	205	0.107764	ug/L	8.458	11493.310	Standard
|	Pb-1	206	0.010920	ug/L	4.371	908.696	Standard
|	Pb-2	207	0.010038	ug/L	7.809	794.022	Standard
⌊	Pb	208	0.010663	ug/L	5.692	3653.518	Standard
⌈	Ne	20		ug/L	1.779	394493.123	Standard
|	Na	23	21.234333	ug/L	3.190	147865.148	Standard
|	Mg	26	1.706145	ug/L	3.069	15891.506	Standard
|	K	39	18.411860	ug/L	0.643	191551.704	Standard
|	Ca	43	13.802593	ug/L	0.461	2615.573	Standard
|	Fe	57	5.274403	ug/L	0.611	46751.711	Standard
⌊>	Sc-1	45		ug/L	0.795	782971.052	Standard

Performance Check Report

Sample ID: [STD] Performance Check
Sample Date/Time: Wednesday, November 06, 2019 09:58:10
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX013118A\[STD] Performance Check.275
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\EPA 200 - Copy.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	5822.3	5806.986	42.987	0.7	Standard
	In	114.9	145275.8	145275.822	737.504	0.5	Standard
	U	238.1	186818.8	186818.775	6135.181	3.3	Standard
⌈	CeO	155.9	2089.8	0.016	0.000	1.1	Standard
| >	Ce	139.9	127052.7	127052.727	2536.342	2.0	Standard
⌊	Ce++	70.0	1575.2	0.012	0.000	1.6	Standard
	Bkgd	220.0	0.4	0.367	0.183	49.8	Standard

Current Conditions File Data

Current Value	Description
1.10	Standard - Nebulizer Gas Flow STD/KED [NEB]
1.20	Standard - Auxiliary Gas Flow
15.00	Standard - Plasma Gas Flow
0.00	Standard - Oxygen Gas Flow
-12.50	Standard - Deflector Voltage
1600.00	Standard - ICP RF Power
-2100.00	Standard - Analog Stage Voltage
1400.00	Standard - Pulse Stage Voltage
0.00	Standard - Quadrupole Rod Offset STD [QRO]
-2.00	Standard - Cell Rod Offset STD [CRO]
11.00	Standard - Discriminator Threshold
-4.00	Standard - Cell Entrance/Exit Voltage STD
1.10	Ammonia DRC - DRC Mode NEB
-9.00	Ammonia DRC - DRC Mode QRO
-2.00	Ammonia DRC - DRC Mode CRO
-7.00	Ammonia DRC - DRC Mode Cell Entrance/Exit Voltage
200.00	Ammonia DRC - Axial Field Voltage
0.00	Ammonia DRC - RPa
0.45	Ammonia DRC - RPq
0.60	Ammonia DRC - Cell Gas A
-12.00	Helium KED - KED Mode QRO
-15.00	Helium KED - KED Mode CRO
-8.00	Helium KED - KED Mode Cell Entrance Voltage
-25.00	Helium KED - KED Mode Cell Exit Voltage
475.00	Helium KED - KED Mode Axial Field Voltage
0.00	Helium KED - KED RPa
0.25	Helium KED - KED RPq
4.50	Helium KED - Cell Gas B

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\York.swz

Optimization Status

Start Time: 11/6/2019 10:01:14 AM

Mass Calibration and Resolution

Optimization Settings:

Method: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA 200 Tune.mth.

MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\EPA 200 - Copy.tun

Iterations: 6

Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution

Peak height (%) for Res. Opt.: 10

Optimization Results:

Initial Try

Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.694)

Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.696)

Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.709)

Target/Obtained mass (207.977/207.975), Target/Obtained resolution (0.7/0.720)

Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.703)

[Passed] Optimum value(s): N/A

Run List

Sample File Name: QBIMX110619A.sam

AS Loc.	Sample ID	Batch Index	Sample Type	Method
1	Blank		Blank	EPA6020_200.8_091119.mth
2	STD 1.0_5.0_50.0		Standard	EPA6020_200.8_091119.mth
3	STD 10.0_100.0		Standard	EPA6020_200.8_091119.mth
4	STD 20.0_1000		Standard	EPA6020_200.8_091119.mth
5	STD 100_5000		Standard	EPA6020_200.8_091119.mth
7	SEQ-ICV1		QC Std	EPA6020_200.8_091119.mth
1	SEQ-ICB1		QC Std	EPA6020_200.8_091119.mth
8	SEQ-CCV1	1	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB1	2	Sample	EPA6020_200.8_091119.mth
6	SEQ-CRL1	3	Sample	EPA6020_200.8_091119.mth
2	SEQ-CRL1	4	Sample	EPA6020_200.8_091119.mth
9	SEQ-IFA1	5	Sample	EPA6020_200.8_091119.mth
10	SEQ-IFB1	6	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV2	7	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB2	8	Sample	EPA6020_200.8_091119.mth
101	19J1295-04RE1	9	Sample	EPA6020_200.8_091119.mth
102	19J1309-01RE1	10	Sample	EPA6020_200.8_091119.mth
103	19J1309-02RE1	11	Sample	EPA6020_200.8_091119.mth
104	BK90024-BLK1	12	Sample	EPA6020_200.8_091119.mth
105	BK90024-BS1	13	Sample	EPA6020_200.8_091119.mth
106	19J1290-01	14	Sample	EPA6020_200.8_091119.mth
107	19J1293-01	15	Sample	EPA6020_200.8_091119.mth
108	19J1293-02	16	Sample	EPA6020_200.8_091119.mth
109	19J1293-03	17	Sample	EPA6020_200.8_091119.mth
110	BK90024-DUP1	18	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV3	19	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB3	20	Sample	EPA6020_200.8_091119.mth
111	BK90024-MS1	21	Sample	EPA6020_200.8_091119.mth
112	SEQ-SRD1	22	Sample	EPA6020_200.8_091119.mth
113	BK90025-BLK1	23	Sample	EPA6020_200.8_091119.mth
114	BK90025-BS1	24	Sample	EPA6020_200.8_091119.mth
115	19J1290-01	25	Sample	EPA6020_200.8_091119.mth
116	19J1293-01	26	Sample	EPA6020_200.8_091119.mth
117	19J1293-02	27	Sample	EPA6020_200.8_091119.mth
118	19J1293-03	28	Sample	EPA6020_200.8_091119.mth
119	BK90025-DUP1	29	Sample	EPA6020_200.8_091119.mth
120	BK90025-MS1	30	Sample	EPA6020_200.8_091119.mth

AS Loc.	Sample ID	Batch Index	Sample Type	Method
8	SEQ-CCV4	31	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB4	32	Sample	EPA6020_200.8_091119.mth
121	SEQ-SRD2	33	Sample	EPA6020_200.8_091119.mth
122	BK90104-BLK1	34	Sample	EPA6020_200.8_091119.mth
123	BK90104-BS1	35	Sample	EPA6020_200.8_091119.mth
124	19K0020-01	36	Sample	EPA6020_200.8_091119.mth
125	19K0020-02	37	Sample	EPA6020_200.8_091119.mth
126	19K0025-01	38	Sample	EPA6020_200.8_091119.mth
127	19K0040-01	39	Sample	EPA6020_200.8_091119.mth
128	19K0040-02	40	Sample	EPA6020_200.8_091119.mth
129	19K0040-03	41	Sample	EPA6020_200.8_091119.mth
130	19K0040-04	42	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV5	43	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB5	44	Sample	EPA6020_200.8_091119.mth
131	19K0040-05	45	Sample	EPA6020_200.8_091119.mth
132	19K0040-06	46	Sample	EPA6020_200.8_091119.mth
133	19K0040-07	47	Sample	EPA6020_200.8_091119.mth
134	19K0040-08	48	Sample	EPA6020_200.8_091119.mth
135	BK90104-DUP1	49	Sample	EPA6020_200.8_091119.mth
136	BK90104-MS1	50	Sample	EPA6020_200.8_091119.mth
137	SEQ-SRD3	51	Sample	EPA6020_200.8_091119.mth
138	BK90197-BLK1	52	Sample	EPA6020_200.8_091119.mth
139	BK90197-BS1	53	Sample	EPA6020_200.8_091119.mth
140	19K0108-01	54	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV6	55	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB6	56	Sample	EPA6020_200.8_091119.mth
141	19K0108-02	57	Sample	EPA6020_200.8_091119.mth
142	19K0108-03	58	Sample	EPA6020_200.8_091119.mth
143	19K0108-04	59	Sample	EPA6020_200.8_091119.mth
144	19K0108-05	60	Sample	EPA6020_200.8_091119.mth
145	19K0108-06	61	Sample	EPA6020_200.8_091119.mth
146	19K0108-07	62	Sample	EPA6020_200.8_091119.mth
147	19K0108-08	63	Sample	EPA6020_200.8_091119.mth
148	19K0108-09	64	Sample	EPA6020_200.8_091119.mth
149	19K0108-10	65	Sample	EPA6020_200.8_091119.mth
150	19K0108-11	66	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV7	67	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB7	68	Sample	EPA6020_200.8_091119.mth
151	19K0108-12	69	Sample	EPA6020_200.8_091119.mth
152	19K0108-13	70	Sample	EPA6020_200.8_091119.mth
153	19K0108-14	71	Sample	EPA6020_200.8_091119.mth
154	BK90197-DUP1	72	Sample	EPA6020_200.8_091119.mth

AS Loc.	Sample ID	Batch Index	Sample Type	Method
155	BK90197-MS1	73	Sample	EPA6020_200.8_091119.mth
156	SEQ-SRD4	74	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV8	75	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB8	76	Sample	EPA6020_200.8_091119.mth
301	BK90199-BLK1	77	Sample	EPA6020_200.8_091119.mth
302	BK90199-BS1	78	Sample	EPA6020_200.8_091119.mth
303	19J1295-01	79	Sample	EPA6020_200.8_091119.mth
304	19J1295-04	80	Sample	EPA6020_200.8_091119.mth
305	19K0025-01	81	Sample	EPA6020_200.8_091119.mth
306	19K0086-01	82	Sample	EPA6020_200.8_091119.mth
307	19K0086-02	83	Sample	EPA6020_200.8_091119.mth
308	19K0086-03	84	Sample	EPA6020_200.8_091119.mth
309	19K0086-04	85	Sample	EPA6020_200.8_091119.mth
310	19K0093-01	86	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV9	87	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB9	88	Sample	EPA6020_200.8_091119.mth
311	19K0093-02	89	Sample	EPA6020_200.8_091119.mth
312	BK90199-DUP1	90	Sample	EPA6020_200.8_091119.mth
313	BK90199-MS1	91	Sample	EPA6020_200.8_091119.mth
314	SEQ-SRD5	92	Sample	EPA6020_200.8_091119.mth
315	19J1290-01RE1	93	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCVA	94	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCBA	95	Sample	EPA6020_200.8_091119.mth
6	SEQ-CRL2	96	Sample	EPA6020_200.8_091119.mth
9	SEQ-IFA2	97	Sample	EPA6020_200.8_091119.mth
10	SEQ-IFB2	98	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCVB	99	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCBB	100	Sample	EPA6020_200.8_091119.mth

Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1

Sample Date/Time: Wednesday, November 06, 2019 11:36:36

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-ICV1.006

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	101.172884	ug/L	4.119	600148.967	Standard
|	Be	9	51.593508	ug/L	2.611	254339.797	Standard
⌊>	Sc	45		ug/L	1.685	785498.562	Standard
⌈	Al	27	999.635295	ug/L	0.918	96888.130	KED
|	Ti	48	88.257250	ug/L	1.863	73432.290	KED
|	V	51	47.407506	ug/L	1.506	140510.399	KED
|	Cr	52	47.466304	ug/L	2.729	196748.914	KED
|	Cr-1	53	47.849754	ug/L	2.833	23295.655	KED
|	Mn	55	48.194504	ug/L	0.441	64892.387	KED
|	Fe-1	57	963.977523	ug/L	2.498	64469.202	KED
|	Co	59	48.017515	ug/L	1.830	359999.863	KED
|	Ni	60	49.177982	ug/L	1.376	108177.422	KED
|	Cu	63	48.746776	ug/L	3.366	280359.674	KED
|	Cu-1	65	48.408838	ug/L	0.937	142015.780	KED
|	Zn	66	52.791530	ug/L	2.520	23176.126	KED
|	Zn-1	67	54.754968	ug/L	1.786	4023.900	KED
|>	Ge	72		ug/L	2.404	93523.249	KED
|	As	75	46.781531	ug/L	2.361	11466.602	KED
|	Se	82	47.874379	ug/L	9.022	289.336	KED
|	Se-1	78	44.027397	ug/L	13.033	531.911	KED
|	Se-2	77	48.623678	ug/L	6.096	173.902	KED
|	Mo	98	47.086746	ug/L	1.263	193963.354	KED
⌊	Mo-1	97	48.584377	ug/L	0.647	74119.119	KED
⌈	Sr	88	94.866352	ug/L	1.800	11272327.967	Standard
|	Ag	107	50.772243	ug/L	1.383	2192634.011	Standard
|	Ag-1	109	50.494978	ug/L	0.710	2106303.297	Standard
|	Cd	111	50.195621	ug/L	1.106	465915.727	Standard
|	Cd-1	114	50.678443	ug/L	1.645	1153504.289	Standard
|>	Rh	103		ug/L	1.084	1008436.096	Standard
|	Sn	118	95.540838	ug/L	0.915	3125663.468	Standard
|	Sb-1	121	49.297802	ug/L	1.941	1368386.507	Standard
⌊	Sb	123	48.316155	ug/L	1.135	1015317.437	Standard
⌈	Ba	135	50.281665	ug/L	0.781	399669.165	Standard
⌊>	Tb	159		ug/L	0.596	1050874.773	Standard
⌈>	Ho	165		ug/L	0.940	1004005.816	Standard
|	Tl-1	203	52.676890	ug/L	0.679	1769178.659	Standard
|	Tl	205	51.982427	ug/L	0.940	4259680.326	Standard
|	Pb-1	206	52.585034	ug/L	1.078	1495474.076	Standard
|	Pb-2	207	52.789072	ug/L	1.035	1350994.579	Standard
⌊	Pb	208	52.795023	ug/L	0.499	6057520.182	Standard
⌈	Ne	20		ug/L	2.501	321884.739	Standard
|	Na	23	1024.580791	ug/L	3.161	6133380.067	Standard
|	Mg	26	1061.131136	ug/L	3.686	3281942.655	Standard
|	K	39	1090.915405	ug/L	2.741	4433177.015	Standard
|	Ca	43	1256.269168	ug/L	2.724	161583.799	Standard
|	Fe	57	1030.485020	ug/L	1.031	1573126.556	Standard
⌊>	Sc-1	45		ug/L	1.685	785498.562	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1

Sample Date/Time: Wednesday, November 06, 2019 11:41:55

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-ICB1.007

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌜	B	11	0.034527	ug/L	4.512	4957.528	Standard
|	Be	9	0.004381	ug/L	27.702	54.667	Standard
⌞>	Sc	45		ug/L	0.682	824249.835	Standard
⌜	Al	27	1.486102	ug/L	2.620	966.699	KED
|	Ti	48	-0.006325	ug/L	16.902	69.334	KED
|	V	51	-0.040165	ug/L	7.293	911.363	KED
|	Cr	52	0.007419	ug/L	2.846	2682.252	KED
|	Cr-1	53	-0.021334	ug/L	5.953	610.680	KED
|	Mn	55	0.003024	ug/L	28.057	68.000	KED
|	Fe-1	57	0.719217	ug/L	13.827	159.334	KED
|	Co	59	0.012107	ug/L	16.050	148.667	KED
|	Ni	60	0.010746	ug/L	7.219	263.336	KED
|	Cu	63	0.014419	ug/L	2.505	322.670	KED
|	Cu-1	65	0.019241	ug/L	17.165	174.001	KED
|	Zn	66	-0.150577	ug/L	5.743	495.342	KED
|	Zn-1	67	-0.327955	ug/L	19.975	66.667	KED
|>	Ge	72		ug/L	3.359	93381.772	KED
|	As	75	0.008005	ug/L	39.001	31.333	KED
|	Se	82	0.124561	ug/L	9.116	12.667	KED
|	Se-1	78	0.407079	ug/L	681.355	-0.740	KED
|	Se-2	77	1.277743	ug/L	35.557	3.260	KED
|	Mo	98	0.072402	ug/L	15.028	398.672	KED
⌞	Mo-1	97	0.058711	ug/L	5.719	141.334	KED
⌜	Sr	88	-0.000717	ug/L	2.861	3941.211	Standard
|	Ag	107	0.003927	ug/L	14.751	376.005	Standard
|	Ag-1	109	0.003556	ug/L	8.625	347.338	Standard
|	Cd	111	0.001684	ug/L	15.231	74.667	Standard
|	Cd-1	114	0.002292	ug/L	5.438	384.005	Standard
|>	Rh	103		ug/L	0.516	1040235.997	Standard
|	Sn	118	0.029707	ug/L	2.637	6954.360	Standard
|	Sb-1	121	0.077227	ug/L	4.957	4874.166	Standard
⌞	Sb	123	0.073438	ug/L	2.560	3578.192	Standard
⌜	Ba	135	0.002870	ug/L	12.244	174.668	Standard
⌞>	Tb	159		ug/L	2.438	1084104.376	Standard
⌜>	Ho	165		ug/L	0.394	1032475.288	Standard
|	Tl-1	203	0.166632	ug/L	4.904	6865.652	Standard
|	Tl	205	0.170336	ug/L	4.318	16976.761	Standard
|	Pb-1	206	0.004279	ug/L	8.953	419.340	Standard
|	Pb-2	207	0.002848	ug/L	12.209	369.338	Standard
⌞	Pb	208	0.003672	ug/L	2.746	1708.707	Standard
⌜	Ne	20		ug/L	2.028	315121.223	Standard
|	Na	23	-3.450308	ug/L	3.232	42299.240	Standard
|	Mg	26	0.023173	ug/L	3.502	10303.718	Standard
|	K	39	1.307493	ug/L	1.629	158710.903	Standard
|	Ca	43	0.187988	ug/L	4.973	1946.133	Standard
|	Fe	57	-3.315238	ug/L	1.389	44422.971	Standard
⌞>	Sc-1	45		ug/L	0.682	824249.835	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1

Sample Date/Time: Wednesday, November 06, 2019 11:47:14

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-CCV1.008

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	50.831248	ug/L	4.850	311039.436	Standard
|	Be	9	52.207592	ug/L	1.037	263455.278	Standard
|>	Sc	45		ug/L	1.355	804140.815	Standard
⌈	Al	27	2530.732447	ug/L	1.911	244709.935	KED
|	Ti	48	49.267913	ug/L	2.248	41129.810	KED
|	V	51	48.424804	ug/L	2.491	143864.393	KED
|	Cr	52	49.104544	ug/L	1.313	203939.544	KED
|	Cr-1	53	49.156313	ug/L	0.355	23976.103	KED
|	Mn	55	50.189380	ug/L	0.466	67785.107	KED
|	Fe-1	57	2597.612065	ug/L	0.499	173982.384	KED
|	Co	59	49.859202	ug/L	1.142	374813.045	KED
|	Ni	60	48.825741	ug/L	5.804	107687.928	KED
|	Cu	63	49.371621	ug/L	1.589	284626.593	KED
|	Cu-1	65	49.235123	ug/L	2.272	144838.112	KED
|	Zn	66	44.396846	ug/L	2.068	19625.475	KED
|	Zn-1	67	45.703951	ug/L	2.484	3382.401	KED
|>	Ge	72		ug/L	2.179	93800.370	KED
|	As	75	48.310565	ug/L	0.865	11875.601	KED
|	Se	82	47.926465	ug/L	6.651	290.003	KED
|	Se-1	78	45.087699	ug/L	13.253	544.537	KED
|	Se-2	77	41.355338	ug/L	13.054	147.860	KED
|	Mo	98	48.542909	ug/L	0.979	200520.240	KED
⌊	Mo-1	97	50.594767	ug/L	1.500	77395.785	KED
⌈	Sr	88	51.086841	ug/L	1.222	6020526.062	Standard
|	Ag	107	53.130523	ug/L	0.413	2274960.643	Standard
|	Ag-1	109	53.451631	ug/L	1.168	2210638.502	Standard
|	Cd	111	51.792339	ug/L	2.572	476631.415	Standard
|	Cd-1	114	49.925435	ug/L	3.031	1126618.725	Standard
|>	Rh	103		ug/L	0.951	999930.364	Standard
|	Sn	118	49.879858	ug/L	3.688	1620756.359	Standard
|	Sb-1	121	50.105450	ug/L	1.826	1379119.917	Standard
⌊	Sb	123	49.559193	ug/L	1.432	1032636.827	Standard
⌈	Ba	135	52.098793	ug/L	1.952	413366.685	Standard
⌊>	Tb	159		ug/L	2.252	1049254.110	Standard
⌈>	Ho	165		ug/L	1.139	1017420.424	Standard
|	Tl-1	203	53.243029	ug/L	1.633	1811812.978	Standard
|	Tl	205	52.334066	ug/L	0.538	4345463.850	Standard
|	Pb-1	206	52.553220	ug/L	0.923	1514514.644	Standard
|	Pb-2	207	52.591762	ug/L	1.118	1363974.772	Standard
⌊	Pb	208	52.837280	ug/L	1.276	6143347.688	Standard
⌈	Ne	20		ug/L	2.520	341895.191	Standard
|	Na	23	2647.624521	ug/L	2.101	16126513.052	Standard
|	Mg	26	2686.912845	ug/L	4.531	8492200.291	Standard
|	K	39	2723.667966	ug/L	2.743	11106795.930	Standard
|	Ca	43	2749.044692	ug/L	1.424	359638.545	Standard
|	Fe	57	2776.093576	ug/L	0.804	4256827.317	Standard
⌊>	Sc-1	45		ug/L	1.355	804140.815	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1

Sample Date/Time: Wednesday, November 06, 2019 11:52:33

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-CCB1.009

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	-0.026183	ug/L	4.263	4436.023	Standard
|	Be	9	0.007280	ug/L	8.575	67.333	Standard
⌊>	Sc	45		ug/L	1.455	798057.881	Standard
⌈	Al	27	2.038651	ug/L	1.336	996.701	KED
|	Ti	48	-0.026822	ug/L	13.683	51.333	KED
|	V	51	-0.044290	ug/L	1.369	880.694	KED
|	Cr	52	0.031388	ug/L	3.961	2716.925	KED
|	Cr-1	53	0.024288	ug/L	11.104	619.347	KED
|	Mn	55	0.008335	ug/L	15.021	73.334	KED
|	Fe-1	57	0.758510	ug/L	3.172	158.668	KED
|	Co	59	0.012451	ug/L	11.061	148.001	KED
|	Ni	60	0.017831	ug/L	3.466	272.669	KED
|	Cu	63	0.012871	ug/L	13.371	306.670	KED
|	Cu-1	65	0.021064	ug/L	9.290	175.334	KED
|	Zn	66	-0.144281	ug/L	13.302	488.675	KED
|	Zn-1	67	0.021936	ug/L	21.199	90.000	KED
|>	Ge	72		ug/L	4.386	91345.480	KED
|	As	75	0.010276	ug/L	3.685	31.333	KED
|	Se	82	1.818517	ug/L	31.492	22.000	KED
|	Se-1	78	0.696625	ug/L	117.912	2.604	KED
|	Se-2	77	0.954536	ug/L	206.875	1.937	KED
|	Mo	98	0.053603	ug/L	4.500	315.337	KED
⌊	Mo-1	97	0.050952	ug/L	23.704	126.001	KED
⌈	Sr	88	-0.000565	ug/L	2.944	3815.176	Standard
|	Ag	107	0.004669	ug/L	11.074	393.339	Standard
|	Ag-1	109	0.005397	ug/L	11.839	410.006	Standard
|	Cd	111	0.005168	ug/L	13.462	104.000	Standard
|	Cd-1	114	0.005755	ug/L	4.890	448.674	Standard
|>	Rh	103		ug/L	2.973	1002600.940	Standard
|	Sn	118	0.026483	ug/L	5.731	6586.188	Standard
|	Sb-1	121	0.070081	ug/L	3.216	4495.374	Standard
⌊	Sb	123	0.074425	ug/L	3.628	3464.831	Standard
⌈	Ba	135	0.005000	ug/L	14.422	184.668	Standard
⌊>	Tb	159		ug/L	2.788	1041073.556	Standard
⌈>	Ho	165		ug/L	1.891	1013197.816	Standard
|	Tl-1	203	0.128123	ug/L	7.208	5427.034	Standard
|	Tl	205	0.133219	ug/L	3.597	13583.127	Standard
|	Pb-1	206	0.005555	ug/L	10.062	448.007	Standard
|	Pb-2	207	0.006030	ug/L	7.443	444.007	Standard
⌊	Pb	208	0.005273	ug/L	4.536	1861.380	Standard
⌈	Ne	20		ug/L	2.223	316073.441	Standard
|	Na	23	-3.298790	ug/L	1.450	41870.612	Standard
|	Mg	26	0.188893	ug/L	5.318	10499.865	Standard
|	K	39	2.958032	ug/L	1.460	160264.745	Standard
|	Ca	43	-0.055629	ug/L	7.878	1854.121	Standard
|	Fe	57	-2.443187	ug/L	3.530	44332.739	Standard
⌊>	Sc-1	45		ug/L	1.455	798057.881	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1

Sample Date/Time: Wednesday, November 06, 2019 11:57:52

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-CRL1.010

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	5.332611	ug/L	2.690	37428.992	Standard
|	Be	9	1.093720	ug/L	1.390	5647.783	Standard
⌊>	Sc	45		ug/L	4.238	819261.289	Standard
⌈	Al	27	49.408897	ug/L	0.944	5693.801	KED
|	Ti	48	4.697603	ug/L	2.831	4063.245	KED
|	V	51	1.055528	ug/L	4.958	4225.959	KED
|	Cr	52	1.108171	ug/L	0.980	7337.884	KED
|	Cr-1	53	1.274690	ug/L	3.444	1251.388	KED
|	Mn	55	1.068775	ug/L	4.583	1534.749	KED
|	Fe-1	57	51.113743	ug/L	3.059	3599.787	KED
|	Co	59	1.052759	ug/L	4.014	8120.977	KED
|	Ni	60	1.123103	ug/L	3.337	2762.934	KED
|	Cu	63	1.122402	ug/L	2.387	6831.634	KED
|	Cu-1	65	1.119520	ug/L	2.422	3472.422	KED
|	Zn	66	2.342095	ug/L	2.328	1596.756	KED
|	Zn-1	67	2.483041	ug/L	7.189	274.003	KED
|>	Ge	72		ug/L	1.527	95501.538	KED
|	As	75	0.944463	ug/L	4.930	266.002	KED
|	Se	82	4.693612	ug/L	37.749	40.000	KED
|	Se-1	78	1.052917	ug/L	152.408	7.245	KED
|	Se-2	77	2.877272	ug/L	119.359	9.245	KED
|	Mo	98	1.004566	ug/L	2.260	4329.323	KED
⌊	Mo-1	97	1.001172	ug/L	0.869	1612.091	KED
⌈	Sr	88	5.396326	ug/L	1.326	642535.593	Standard
|	Ag	107	1.113425	ug/L	1.477	48119.584	Standard
|	Ag-1	109	1.093234	ug/L	1.488	45635.452	Standard
|	Cd	111	1.073948	ug/L	3.889	9991.496	Standard
|	Cd-1	114	1.228969	ug/L	2.037	28198.477	Standard
|>	Rh	103		ug/L	5.411	1006638.236	Standard
|	Sn	118	5.362257	ug/L	2.643	180374.095	Standard
|	Sb-1	121	1.125982	ug/L	1.478	33663.622	Standard
⌊	Sb	123	1.101664	ug/L	1.264	24947.012	Standard
⌈	Ba	135	1.163260	ug/L	2.444	9176.948	Standard
⌊>	Tb	159		ug/L	3.323	1028088.014	Standard
⌈>	Ho	165		ug/L	3.871	977156.247	Standard
|	Tl-1	203	1.241907	ug/L	3.111	41580.464	Standard
|	Tl	205	1.256773	ug/L	0.841	102538.698	Standard
|	Pb-1	206	1.197440	ug/L	2.086	33372.947	Standard
|	Pb-2	207	1.183720	ug/L	1.491	29720.889	Standard
⌊	Pb	208	1.215837	ug/L	1.516	136764.011	Standard
⌈	Ne	20		ug/L	1.812	303576.323	Standard
|	Na	23	44.340270	ug/L	3.707	337344.762	Standard
|	Mg	26	54.368525	ug/L	3.280	184942.946	Standard
|	K	39	54.384293	ug/L	1.947	375038.979	Standard
|	Ca	43	97.824572	ug/L	2.788	14859.728	Standard
|	Fe	57	55.871731	ug/L	2.914	135427.922	Standard
⌊>	Sc-1	45		ug/L	4.238	819261.289	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1

Sample Date/Time: Wednesday, November 06, 2019 12:03:13

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-CRL1.011

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	5.290441	ug/L	2.650	38171.620	Standard
|	Be	9	1.058188	ug/L	1.961	5615.104	Standard
⌊>	Sc	45		ug/L	1.026	840679.190	Standard
⌈	Al	27	45.630948	ug/L	2.594	5297.649	KED
|	Ti	48	4.712047	ug/L	3.674	4055.243	KED
|	V	51	1.065339	ug/L	3.370	4236.629	KED
|	Cr	52	1.095358	ug/L	4.619	7253.177	KED
|	Cr-1	53	1.184206	ug/L	4.246	1202.051	KED
|	Mn	55	1.050466	ug/L	3.361	1502.079	KED
|	Fe-1	57	47.955424	ug/L	4.838	3368.398	KED
|	Co	59	1.054583	ug/L	4.646	8096.964	KED
|	Ni	60	1.024538	ug/L	3.295	2530.224	KED
|	Cu	63	1.082453	ug/L	2.598	6565.509	KED
|	Cu-1	65	1.083274	ug/L	2.296	3348.393	KED
|	Zn	66	0.495005	ug/L	11.041	784.688	KED
|	Zn-1	67	0.370035	ug/L	13.091	118.667	KED
|>	Ge	72		ug/L	1.291	95047.175	KED
|	As	75	1.031567	ug/L	9.900	286.670	KED
|	Se	82	1.898224	ug/L	17.843	23.333	KED
|	Se-1	78	1.271820	ug/L	40.674	9.911	KED
|	Se-2	77	1.987890	ug/L	58.221	5.911	KED
|	Mo	98	0.957451	ug/L	2.761	4109.925	KED
⌊	Mo-1	97	1.006020	ug/L	4.869	1612.758	KED
⌈	Sr	88	5.193041	ug/L	2.225	638764.144	Standard
|	Ag	107	1.062837	ug/L	2.795	47438.675	Standard
|	Ag-1	109	1.051591	ug/L	3.173	45331.190	Standard
|	Cd	111	1.022660	ug/L	2.312	9824.045	Standard
|	Cd-1	114	1.158174	ug/L	0.430	27440.997	Standard
|>	Rh	103		ug/L	2.628	1037929.973	Standard
|	Sn	118	5.223705	ug/L	0.906	181438.995	Standard
|	Sb-1	121	1.041802	ug/L	1.528	32362.621	Standard
⌊	Sb	123	1.039991	ug/L	2.021	24422.693	Standard
⌈	Ba	135	1.056018	ug/L	1.309	8768.691	Standard
⌊>	Tb	159		ug/L	2.046	1079472.160	Standard
⌈>	Ho	165		ug/L	0.969	1032909.471	Standard
|	Tl-1	203	1.113448	ug/L	1.325	39557.365	Standard
|	Tl	205	1.143382	ug/L	1.801	98955.618	Standard
|	Pb-1	206	1.103998	ug/L	1.331	32584.457	Standard
|	Pb-2	207	1.067750	ug/L	0.718	28399.535	Standard
⌊	Pb	208	1.098929	ug/L	0.984	130955.622	Standard
⌈	Ne	20		ug/L	2.470	309107.689	Standard
|	Na	23	40.145070	ug/L	3.072	319686.920	Standard
|	Mg	26	50.360175	ug/L	1.727	176609.185	Standard
|	K	39	48.111721	ug/L	2.771	358710.612	Standard
|	Ca	43	51.243364	ug/L	3.420	8933.461	Standard
|	Fe	57	49.772418	ug/L	2.380	129470.261	Standard
⌊>	Sc-1	45		ug/L	1.026	840679.190	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1

Sample Date/Time: Wednesday, November 06, 2019 12:08:32

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-IFA1.012

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
	B	11	-0.174299	ug/L	3.800	3133.677	Standard
	Be	9	0.003011	ug/L	19.876	40.667	Standard
>	Sc	45		ug/L	0.993	704317.574	Standard
	Al	27	9460.387102	ug/L	2.167	802275.479	KED
	Ti	48	194.194507	ug/L	1.089	142305.994	KED
	V	51	0.037316	ug/L	3.118	1006.702	KED
	Cr	52	0.131762	ug/L	3.039	2814.944	KED
	Cr-1	53	0.399465	ug/L	5.988	714.018	KED
	Mn	55	0.098404	ug/L	0.666	173.334	KED
	Fe-1	57	9989.177709	ug/L	2.030	587826.557	KED
	Co	59	0.042335	ug/L	11.772	331.337	KED
	Ni	60	0.059915	ug/L	5.677	327.337	KED
	Cu	63	0.062543	ug/L	8.835	528.676	KED
	Cu-1	65	0.071345	ug/L	13.618	288.670	KED
	Zn	66	0.139125	ug/L	6.569	546.677	KED
	Zn-1	67	0.178957	ug/L	11.320	90.667	KED
>	Ge	72		ug/L	1.107	82415.064	KED
	As	75	0.058103	ug/L	30.308	38.667	KED
	Se	82	1.986065	ug/L	20.145	20.667	KED
	Se-1	78	0.026557	ug/L	88.357	-4.766	KED
	Se-2	77	0.541870	ug/L	1475.788	0.567	KED
	Mo	98	206.697496	ug/L	1.145	750143.426	KED
	Mo-1	97	207.626124	ug/L	0.564	279037.533	KED
	Sr	88	0.075152	ug/L	1.771	10957.535	Standard
	Ag	107	0.016432	ug/L	4.241	772.021	Standard
	Ag-1	109	0.016271	ug/L	3.716	740.019	Standard
	Cd	111	0.339391	ug/L	3.413	2736.929	Standard
	Cd-1	114	0.220762	ug/L	2.669	4563.396	Standard
>	Rh	103		ug/L	1.893	861144.558	Standard
	Sn	118	0.169232	ug/L	1.290	9645.255	Standard
	Sb-1	121	0.088595	ug/L	1.393	4301.981	Standard
	Sb	123	0.087938	ug/L	1.492	3220.690	Standard
	Ba	135	0.092475	ug/L	2.826	782.688	Standard
>	Tb	159		ug/L	2.155	933507.863	Standard
>	Ho	165		ug/L	2.587	907563.334	Standard
	Tl-1	203	0.029235	ug/L	2.537	1864.122	Standard
	Tl	205	0.029638	ug/L	4.346	4500.710	Standard
	Pb-1	206	0.021491	ug/L	0.514	810.690	Standard
	Pb-2	207	0.022014	ug/L	3.646	768.021	Standard
	Pb	208	0.022642	ug/L	2.106	3468.169	Standard
	Ne	20		ug/L	1.919	386365.598	Standard
	Na	23	10583.439889	ug/L	3.046	56285382.220	Standard
	Mg	26	9537.555927	ug/L	3.315	26368379.389	Standard
	K	39	10297.765166	ug/L	2.045	36407203.755	Standard
	Ca	43	10392.855062	ug/L	1.109	1186479.080	Standard
	Fe	57	10317.558320	ug/L	3.006	13741077.324	Standard
>	Sc-1	45		ug/L	0.993	704317.574	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1

Sample Date/Time: Wednesday, November 06, 2019 12:13:51

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-IFB1.013

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
	B	11	-0.213811	ug/L	1.159	2904.295	Standard
	Be	9	20.537377	ug/L	1.140	90124.079	Standard
>	Sc	45		ug/L	2.932	699498.643	Standard
	Al	27	9329.958589	ug/L	0.731	788066.639	KED
	Ti	48	190.639355	ug/L	2.711	139171.614	KED
	V	51	19.983789	ug/L	3.497	52527.805	KED
	Cr	52	20.356584	ug/L	0.176	75394.428	KED
	Cr-1	53	20.073631	ug/L	2.914	8894.770	KED
	Mn	55	19.562700	ug/L	0.731	23164.767	KED
	Fe-1	57	9823.301465	ug/L	2.092	575784.092	KED
	Co	59	19.824466	ug/L	2.750	130513.770	KED
	Ni	60	19.771396	ug/L	4.019	38309.353	KED
	Cu	63	19.800071	ug/L	2.814	100072.803	KED
	Cu-1	65	19.742872	ug/L	2.086	50920.617	KED
	Zn	66	18.302609	ug/L	0.426	7374.570	KED
	Zn-1	67	19.421974	ug/L	3.538	1304.060	KED
>	Ge	72		ug/L	0.144	82092.529	KED
	As	75	20.306767	ug/L	0.435	4384.673	KED
	Se	82	18.794796	ug/L	16.449	106.000	KED
	Se-1	78	19.709936	ug/L	14.308	205.908	KED
	Se-2	77	21.423978	ug/L	3.489	66.573	KED
	Mo	98	219.317961	ug/L	0.938	792837.179	KED
	Mo-1	97	226.874702	ug/L	1.384	303729.918	KED
	Sr	88	0.076171	ug/L	0.878	11008.240	Standard
	Ag	107	20.845551	ug/L	2.511	765381.694	Standard
	Ag-1	109	20.680711	ug/L	0.906	733232.513	Standard
	Cd	111	21.660511	ug/L	1.152	170931.961	Standard
	Cd-1	114	20.282277	ug/L	2.461	392527.737	Standard
>	Rh	103		ug/L	1.981	857235.470	Standard
	Sn	118	0.269830	ug/L	1.465	12395.376	Standard
	Sb-1	121	21.182495	ug/L	1.935	501088.759	Standard
	Sb	123	20.813577	ug/L	2.498	372743.862	Standard
	Ba	135	20.259460	ug/L	3.505	143316.546	Standard
>	Tb	159		ug/L	2.410	934562.410	Standard
>	Ho	165		ug/L	1.917	907449.835	Standard
	Tl-1	203	21.249713	ug/L	1.383	645597.252	Standard
	Tl	205	21.659779	ug/L	1.621	1605319.275	Standard
	Pb-1	206	21.024013	ug/L	1.602	540421.849	Standard
	Pb-2	207	20.685117	ug/L	0.214	478540.355	Standard
	Pb	208	21.141229	ug/L	0.196	2192559.553	Standard
	Ne	20		ug/L	1.796	375276.929	Standard
	Na	23	10670.353259	ug/L	3.654	56369513.668	Standard
	Mg	26	9288.023319	ug/L	3.463	25506488.677	Standard
	K	39	10177.237122	ug/L	1.385	35727254.641	Standard
	Ca	43	10123.993019	ug/L	2.635	1147758.186	Standard
	Fe	57	10155.660629	ug/L	1.269	13432076.865	Standard
>	Sc-1	45		ug/L	2.932	699498.643	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2

Sample Date/Time: Wednesday, November 06, 2019 12:19:10

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-CCV2.014

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	56.429341	ug/L	1.540	279454.598	Standard
|	Be	9	60.208479	ug/L	1.214	246493.243	Standard
|>	Sc	45		ug/L	8.048	655115.685	Standard
⌈	Al	27	2571.784796	ug/L	0.857	221034.253	KED
|	Ti	48	50.408649	ug/L	1.853	37392.217	KED
|	V	51	51.760328	ug/L	2.609	136632.579	KED
|	Cr	52	51.393875	ug/L	3.279	189610.919	KED
|	Cr-1	53	50.390714	ug/L	3.325	21832.015	KED
|	Mn	55	50.111738	ug/L	1.214	60146.362	KED
|	Fe-1	57	2692.801132	ug/L	1.587	160290.387	KED
|	Co	59	50.889639	ug/L	0.257	339964.267	KED
|	Ni	60	51.985282	ug/L	3.470	101910.498	KED
|	Cu	63	51.962022	ug/L	2.371	266200.878	KED
|	Cu-1	65	52.088209	ug/L	0.971	136178.690	KED
|	Zn	66	48.030123	ug/L	1.016	18831.738	KED
|	Zn-1	67	48.700439	ug/L	8.957	3199.027	KED
|>	Ge	72		ug/L	1.978	83343.135	KED
|	As	75	51.645911	ug/L	2.570	11277.118	KED
|	Se	82	51.869220	ug/L	2.594	278.003	KED
|	Se-1	78	48.819982	ug/L	5.335	525.286	KED
|	Se-2	77	60.402500	ug/L	4.910	192.611	KED
|	Mo	98	50.371076	ug/L	1.649	184851.139	KED
⌊	Mo-1	97	52.043063	ug/L	0.572	70746.750	KED
⌈	Sr	88	57.154811	ug/L	1.045	5536690.145	Standard
|	Ag	107	59.752881	ug/L	2.028	2101970.082	Standard
|	Ag-1	109	59.958095	ug/L	0.565	2038907.324	Standard
|	Cd	111	59.898122	ug/L	0.553	453448.934	Standard
|	Cd-1	114	57.714970	ug/L	2.507	1071590.226	Standard
|>	Rh	103		ug/L	7.570	825314.289	Standard
|	Sn	118	56.512100	ug/L	0.870	1509758.773	Standard
|	Sb-1	121	58.438078	ug/L	1.741	1321705.831	Standard
⌊	Sb	123	57.699049	ug/L	2.812	988437.348	Standard
⌈	Ba	135	55.469615	ug/L	2.488	373507.710	Standard
⌊>	Tb	159		ug/L	8.860	895357.478	Standard
⌈>	Ho	165		ug/L	7.685	851745.955	Standard
|	Tl-1	203	60.555868	ug/L	2.494	1716385.378	Standard
|	Tl	205	59.548338	ug/L	0.752	4122048.299	Standard
|	Pb-1	206	59.626587	ug/L	0.422	1432995.147	Standard
|	Pb-2	207	60.693993	ug/L	0.339	1312745.757	Standard
⌊	Pb	208	60.232688	ug/L	0.320	5840231.076	Standard
⌈	Ne	20		ug/L	2.998	325075.118	Standard
|	Na	23	3152.908737	ug/L	2.808	15583944.652	Standard
|	Mg	26	2995.528726	ug/L	4.023	7665433.202	Standard
|	K	39	3342.756095	ug/L	1.219	11037359.101	Standard
|	Ca	43	3132.412574	ug/L	2.161	331976.143	Standard
|	Fe	57	3224.913477	ug/L	3.316	4005449.525	Standard
⌊>	Sc-1	45		ug/L	8.048	655115.685	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2

Sample Date/Time: Wednesday, November 06, 2019 12:24:28

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-CCB2.015

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	-0.166066	ug/L	3.387	3253.037	Standard
|	Be	9	0.005315	ug/L	17.625	52.000	Standard
⌊>	Sc	45		ug/L	1.954	721037.381	Standard
⌈	Al	27	2.856449	ug/L	1.994	984.701	KED
|	Ti	48	-0.020216	ug/L	31.482	52.000	KED
|	V	51	-0.025542	ug/L	8.416	857.359	KED
|	Cr	52	0.003986	ug/L	1.464	2391.534	KED
|	Cr-1	53	-0.019877	ug/L	4.267	547.344	KED
|	Mn	55	0.016512	ug/L	8.314	77.334	KED
|	Fe-1	57	0.957217	ug/L	11.535	157.334	KED
|	Co	59	0.011477	ug/L	12.403	129.334	KED
|	Ni	60	0.000958	ug/L	5.249	216.668	KED
|	Cu	63	0.018643	ug/L	4.130	311.337	KED
|	Cu-1	65	0.015807	ug/L	8.294	147.334	KED
|	Zn	66	-0.060426	ug/L	2.448	478.675	KED
|	Zn-1	67	0.054386	ug/L	14.483	84.000	KED
|>	Ge	72		ug/L	1.695	83690.474	KED
|	As	75	-0.020201	ug/L	39.626	22.000	KED
|	Se	82	3.611299	ug/L	32.222	29.333	KED
|	Se-1	78	0.526851	ug/L	1089.167	0.594	KED
|	Se-2	77	0.751456	ug/L	644.052	1.260	KED
|	Mo	98	0.088008	ug/L	13.656	416.673	KED
⌊	Mo-1	97	0.100042	ug/L	2.519	183.335	KED
⌈	Sr	88	-0.001089	ug/L	4.792	3480.425	Standard
|	Ag	107	0.005268	ug/L	14.221	389.339	Standard
|	Ag-1	109	0.004968	ug/L	11.396	365.338	Standard
|	Cd	111	0.002022	ug/L	20.868	69.334	Standard
|	Cd-1	114	0.003293	ug/L	4.695	364.005	Standard
|>	Rh	103		ug/L	3.061	929853.306	Standard
|	Sn	118	0.021095	ug/L	0.550	5953.240	Standard
|	Sb-1	121	0.065110	ug/L	5.907	4040.573	Standard
⌊	Sb	123	0.066048	ug/L	2.204	3053.487	Standard
⌈	Ba	135	0.007217	ug/L	12.374	187.335	Standard
⌊>	Tb	159		ug/L	0.894	967271.778	Standard
⌈>	Ho	165		ug/L	2.383	932622.658	Standard
|	Tl-1	203	0.119595	ug/L	8.054	4726.785	Standard
|	Tl	205	0.120981	ug/L	7.369	11562.027	Standard
|	Pb-1	206	0.004990	ug/L	2.862	397.339	Standard
|	Pb-2	207	0.004831	ug/L	5.049	380.672	Standard
⌊	Pb	208	0.004417	ug/L	1.659	1622.036	Standard
⌈	Ne	20		ug/L	1.308	298672.904	Standard
|	Na	23	-3.054958	ug/L	3.318	39156.963	Standard
|	Mg	26	0.133417	ug/L	0.982	9323.041	Standard
|	K	39	7.783234	ug/L	1.129	162184.851	Standard
|	Ca	43	1.543529	ug/L	1.149	1860.788	Standard
|	Fe	57	-3.007330	ug/L	2.862	39285.305	Standard
⌊>	Sc-1	45		ug/L	1.954	721037.381	Standard

Quantitative Analysis - Summary Report

Sample ID: 19J1295-04RE1

Sample Date/Time: Wednesday, November 06, 2019 12:29:49

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\19J1295-04RE1.016

Sample Description: 10X BJ91907

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
	B	11	10.181719	ug/L	1.666	133912.156	Standard
	Be	9	1.066641	ug/L	1.162	10985.556	Standard
>	Sc	45		ug/L	2.295	1632215.928	Standard
	Al	27	9450.691273	ug/L	1.360	4413242.864	KED
	Ti	48	417.990513	ug/L	2.231	200741.688	KED
	V	51	133.922839	ug/L	2.047	228269.791	KED
	Cr	52	135.481735	ug/L	1.885	321582.069	KED
	Cr-1	53	134.872520	ug/L	1.532	37279.920	KED
	Mn	55	6117.976746	ug/L	0.995	4755907.272	KED
	Fe-1	5	160567.003713	ug/L	1.043	6192486.343	KED
	Co	59	86.335877	ug/L	1.300	373935.957	KED
	Ni	60	240.478458	ug/L	0.329	305092.792	KED
	Cu	63	128.437938	ug/L	0.648	426405.003	KED
	Cu-1	65	129.610843	ug/L	0.126	219617.235	KED
	Zn	66	494.838436	ug/L	1.334	122777.405	KED
	Zn-1	67	491.102970	ug/L	1.132	20437.276	KED
>	Ge	72		ug/L	1.346	54030.662	KED
	As	75	61.634637	ug/L	1.544	8721.996	KED
	Se	82	72.848503	ug/L	9.976	250.669	KED
	Se-1	78	6.466379	ug/L	72.931	42.227	KED
	Se-2	77	65.786996	ug/L	13.964	136.228	KED
	Mo	98	4.296717	ug/L	1.080	10281.032	KED
	Mo-1	97	4.356264	ug/L	4.507	3868.524	KED
	Sr	88	640.715751	ug/L	0.923	38220589.484	Standard
	Ag	107	0.401466	ug/L	0.864	8804.713	Standard
	Ag-1	109	0.379503	ug/L	2.061	8043.598	Standard
	Cd	111	35.074676	ug/L	1.328	163520.648	Standard
	Cd-1	114	33.521895	ug/L	0.427	383254.281	Standard
>	Rh	103		ug/L	1.210	506518.721	Standard
	Sn	118	1.172472	ug/L	1.739	22129.130	Standard
	Sb-1	121	0.196414	ug/L	2.523	4031.236	Standard
	Sb	123	0.201588	ug/L	1.204	3091.921	Standard
	Ba	135	386.755994	ug/L	0.939	2668025.053	Standard
>	Tb	159		ug/L	1.188	912421.393	Standard
>	Ho	165		ug/L	0.847	879750.646	Standard
	Tl-1	203	0.848422	ug/L	0.591	25900.125	Standard
	Tl	205	0.842509	ug/L	1.413	62691.943	Standard
	Pb-1	206	84.932289	ug/L	0.257	2116208.306	Standard
	Pb-2	207	81.629135	ug/L	0.870	1830287.114	Standard
	Pb	208	82.918913	ug/L	0.510	8335731.653	Standard
	Ne	20		ug/L	0.821	1479550.128	Standard
	Na	23	10764.598544	ug/L	1.346	132616629.810	Standard
	Mg	24	11627.267134	ug/L	2.465	74498121.754	Standard
	K	39	3806.542012	ug/L	2.750	31382905.547	Standard
	Ca	43	51892.624117	ug/L	2.997	13716090.633	Standard
	Fe	57	41903.489996	ug/L	2.114	129022564.625	Standard
>	Sc-1	45		ug/L	2.295	1632215.928	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3

Sample Date/Time: Wednesday, November 06, 2019 13:22:56

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-CCV3.026

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	54.515123	ug/L	4.872	331017.653	Standard
|	Be	9	54.610726	ug/L	0.788	273691.645	Standard
⌊>	Sc	45		ug/L	1.657	798769.580	Standard
⌈	Al	27	2711.370060	ug/L	1.320	258831.325	KED
|	Ti	48	49.705533	ug/L	1.554	40968.002	KED
|	V	51	50.115046	ug/L	0.599	146984.975	KED
|	Cr	52	51.270585	ug/L	0.982	210123.464	KED
|	Cr-1	53	51.407421	ug/L	1.570	24724.714	KED
|	Mn	55	51.429121	ug/L	0.673	68561.468	KED
|	Fe-1	57	2673.858300	ug/L	3.593	176843.434	KED
|	Co	59	51.037424	ug/L	2.934	378717.715	KED
|	Ni	60	50.984995	ug/L	1.557	111011.726	KED
|	Cu	63	51.251695	ug/L	2.136	291707.033	KED
|	Cu-1	65	51.944076	ug/L	1.012	150868.515	KED
|	Zn	66	47.386531	ug/L	0.730	20646.242	KED
|	Zn-1	67	48.309230	ug/L	1.966	3525.102	KED
|>	Ge	72		ug/L	1.306	92570.994	KED
|	As	75	50.306897	ug/L	2.200	12204.546	KED
|	Se	82	51.016720	ug/L	1.974	304.003	KED
|	Se-1	78	49.268561	ug/L	7.209	588.601	KED
|	Se-2	77	50.587794	ug/L	14.131	179.256	KED
|	Mo	98	48.753840	ug/L	1.070	198805.877	KED
⌊	Mo-1	97	50.140293	ug/L	1.748	75734.929	KED
⌈	Sr	88	50.653897	ug/L	1.168	5647466.244	Standard
|	Ag	107	54.165175	ug/L	1.397	2194450.471	Standard
|	Ag-1	109	53.250080	ug/L	2.582	2082160.449	Standard
|	Cd	111	51.977943	ug/L	0.834	452554.063	Standard
|	Cd-1	114	50.763520	ug/L	0.169	1083455.291	Standard
|>	Rh	103		ug/L	4.424	946928.623	Standard
|	Sn	118	49.592730	ug/L	1.257	1523654.978	Standard
|	Sb-1	121	50.753433	ug/L	1.058	1320833.625	Standard
⌊	Sb	123	50.160557	ug/L	1.338	988813.668	Standard
⌈	Ba	135	52.648247	ug/L	1.157	384040.698	Standard
⌊>	Tb	159		ug/L	5.816	966790.608	Standard
⌈>	Ho	165		ug/L	3.449	951695.954	Standard
|	Tl-1	203	53.415733	ug/L	2.461	1698851.883	Standard
|	Tl	205	52.275064	ug/L	1.123	4056919.269	Standard
|	Pb-1	206	54.257537	ug/L	1.238	1461490.334	Standard
|	Pb-2	207	53.577694	ug/L	1.223	1299054.469	Standard
⌊	Pb	208	53.596175	ug/L	1.087	5824963.524	Standard
⌈	Ne	20		ug/L	2.710	358140.469	Standard
|	Na	23	2411.684686	ug/L	1.951	14595528.512	Standard
|	Mg	26	2516.966379	ug/L	4.162	7902852.691	Standard
|	K	39	2444.811658	ug/L	2.490	9917464.820	Standard
|	Ca	43	2739.876685	ug/L	0.923	356093.706	Standard
|	Fe	57	2700.772059	ug/L	0.228	4114887.640	Standard
⌊>	Sc-1	45		ug/L	1.657	798769.580	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3

Sample Date/Time: Wednesday, November 06, 2019 13:28:15

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-CCB3.027

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	0.727373	ug/L	1.804	8782.700	Standard
|	Be	9	0.006960	ug/L	21.723	64.667	Standard
⌊>	Sc	45		ug/L	0.780	783743.709	Standard
⌈	Al	27	3.564192	ug/L	3.756	1108.043	KED
|	Ti	48	-0.025863	ug/L	14.945	50.667	KED
|	V	51	0.141900	ug/L	6.738	1374.733	KED
|	Cr	52	0.045228	ug/L	3.510	2692.921	KED
|	Cr-1	53	0.498988	ug/L	5.305	813.357	KED
|	Mn	55	0.032674	ug/L	21.546	102.667	KED
|	Fe-1	57	0.804321	ug/L	8.653	157.334	KED
|	Co	59	0.011314	ug/L	12.037	136.001	KED
|	Ni	60	0.010367	ug/L	11.410	249.336	KED
|	Cu	63	0.014922	ug/L	2.915	309.337	KED
|	Cu-1	65	0.024331	ug/L	7.286	180.001	KED
|	Zn	66	-0.007221	ug/L	1.706	528.676	KED
|	Zn-1	67	0.047658	ug/L	3.446	88.667	KED
|>	Ge	72		ug/L	1.486	88645.554	KED
|	As	75	0.022686	ug/L	6.928	33.333	KED
|	Se	82	1.942299	ug/L	0.000	22.000	KED
|	Se-1	78	0.346937	ug/L	427.833	-1.433	KED
|	Se-2	77	2.294797	ug/L	46.232	6.567	KED
|	Mo	98	0.062160	ug/L	6.141	340.004	KED
⌊	Mo-1	97	0.063043	ug/L	4.993	140.667	KED
⌈	Sr	88	0.001519	ug/L	1.091	3970.552	Standard
|	Ag	107	0.005448	ug/L	5.518	418.006	Standard
|	Ag-1	109	0.005296	ug/L	4.381	398.006	Standard
|	Cd	111	0.002825	ug/L	25.806	80.667	Standard
|	Cd-1	114	0.003436	ug/L	6.117	387.339	Standard
|>	Rh	103		ug/L	1.955	980138.728	Standard
|	Sn	118	0.034818	ug/L	2.139	6713.578	Standard
|	Sb-1	121	0.061946	ug/L	3.999	4177.945	Standard
⌊	Sb	123	0.070316	ug/L	5.138	3305.045	Standard
⌈	Ba	135	0.018733	ug/L	11.423	284.670	Standard
⌊>	Tb	159		ug/L	2.552	1014063.111	Standard
⌈>	Ho	165		ug/L	1.194	958360.772	Standard
|	Tl-1	203	0.141615	ug/L	3.490	5569.753	Standard
|	Tl	205	0.143509	ug/L	7.121	13662.552	Standard
|	Pb-1	206	0.005572	ug/L	9.482	424.673	Standard
|	Pb-2	207	0.003792	ug/L	14.208	366.005	Standard
⌊	Pb	208	0.004832	ug/L	7.116	1713.374	Standard
⌈	Ne	20		ug/L	2.034	310039.813	Standard
|	Na	23	-0.649364	ug/L	1.456	56782.641	Standard
|	Mg	26	0.731235	ug/L	3.645	11975.689	Standard
|	K	39	1.254541	ug/L	1.517	150709.584	Standard
|	Ca	43	2.921679	ug/L	5.809	2198.169	Standard
|	Fe	57	-0.234755	ug/L	1.782	46789.849	Standard
⌊>	Sc-1	45		ug/L	0.780	783743.709	Standard

York Analytical Laboratories, Inc.
SDG: 19J1295
CLASS: METALS
METHOD: EPA 6020B

DATA PACKAGE COVER PAGE

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Client Sample Id:	Lab Sample Id:
KC-MW-01 1019	19J1295-01
KC-MW-DUP 1019	19J1295-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:  Name: Benjamin Gulizia

Date: 11/8/2019 Title: Laboratory Director

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 6020B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BK90199	Laboratory ID:	BK90199-BS1
Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Antimony (dissolved)	50.0	44.3	88.7	80 - 120
Arsenic (dissolved)	50.0	41.8	83.6	80 - 120
Beryllium (dissolved)	50.0	49.5	98.9	80 - 120
Cadmium (dissolved)	50.0	44.4	88.8	80 - 120
Chromium (dissolved)	50.0	41.5	83.1	80 - 120
Copper (dissolved)	50.0	42.3	84.6	80 - 120
Lead (dissolved)	50.0	45.8	91.6	80 - 120
Nickel (dissolved)	50.0	41.6	83.1	80 - 120
Selenium (dissolved)	50.0	42.4	84.7	80 - 120
Silver (dissolved)	50.0	45.0	89.9	80 - 120
Thallium (dissolved)	50.0	43.9	87.7	80 - 120
Zinc (dissolved)	50.0	36.5	73.1 *	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Batch: BK90199 Batch Matrix: Water Preparation: EPA 3015A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 1019	19J1295-01	QBIMX110619A-086	11/05/19 14:09	
KC-MW-DUP 1019	19J1295-04	QBIMX110619A-087	11/05/19 14:09	
Blank	BK90199-BLK1	QBIMX110619A-084	11/05/19 14:09	
LCS	BK90199-BS1	QBIMX110619A-085	11/05/19 14:09	

FORM I **BLANKS**

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: Nexion2000C Project: 41103.00 KINGSTON CVS

Sequence: Y9K0708 Calibration: 11/06/19 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y9K0708-ICB1	Antimony (dissolved)	0.073	1.00	ug/L		EPA 6020B
	Arsenic (dissolved)	0.008	1.00	ug/L		EPA 6020B
	Beryllium (dissolved)	0.004	0.300	ug/L		EPA 6020B
	Cadmium (dissolved)	0.002	0.500	ug/L		EPA 6020B
	Chromium (dissolved)	0.007	1.00	ug/L		EPA 6020B
	Copper (dissolved)	0.014	1.00	ug/L		EPA 6020B
	Lead (dissolved)	0.004	1.00	ug/L		EPA 6020B
	Nickel (dissolved)	0.011	1.00	ug/L		EPA 6020B
	Selenium (dissolved)	0.125	1.00	ug/L		EPA 6020B
	Silver (dissolved)	0.004	1.00	ug/L		EPA 6020B
	Thallium (dissolved)	0.170	1.00	ug/L		EPA 6020B
	Zinc (dissolved)	-0.151	1.00	ug/L		EPA 6020B
Y9K0708-CCB1	Antimony (dissolved)	0.074	1.00	ug/L		EPA 6020B
	Arsenic (dissolved)	0.010	1.00	ug/L		EPA 6020B
	Beryllium (dissolved)	0.007	0.300	ug/L		EPA 6020B
	Cadmium (dissolved)	0.005	0.500	ug/L		EPA 6020B
	Chromium (dissolved)	0.031	1.00	ug/L		EPA 6020B
	Copper (dissolved)	0.013	1.00	ug/L		EPA 6020B
	Lead (dissolved)	0.005	1.00	ug/L		EPA 6020B
	Nickel (dissolved)	0.018	1.00	ug/L		EPA 6020B
	Selenium (dissolved)	1.82	1.00	ug/L	*	EPA 6020B
	Silver (dissolved)	0.005	1.00	ug/L		EPA 6020B
	Thallium (dissolved)	0.133	1.00	ug/L		EPA 6020B
	Zinc (dissolved)	-0.144	1.00	ug/L		EPA 6020B
Y9K0708-CCB2	Antimony (dissolved)	0.066	1.00	ug/L		EPA 6020B
	Arsenic (dissolved)	-0.020	1.00	ug/L		EPA 6020B
	Beryllium (dissolved)	0.005	0.300	ug/L		EPA 6020B
	Cadmium (dissolved)	0.002	0.500	ug/L		EPA 6020B
	Chromium (dissolved)	0.004	1.00	ug/L		EPA 6020B
	Copper (dissolved)	0.019	1.00	ug/L		EPA 6020B
	Lead (dissolved)	0.004	1.00	ug/L		EPA 6020B
	Nickel (dissolved)	0.001	1.00	ug/L		EPA 6020B
	Selenium (dissolved)	3.61	1.00	ug/L	*	EPA 6020B

FORM I

BLANKS

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: Nexion2000C Project: 41103.00 KINGSTON CVS

Sequence: Y9K0708 Calibration: 11/06/19 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y9K0708-CCB2	Silver (dissolved)	0.005	1.00	ug/L		EPA 6020B
	Thallium (dissolved)	0.121	1.00	ug/L		EPA 6020B
	Zinc (dissolved)	-0.060	1.00	ug/L		EPA 6020B
Y9K0708-CCB8	Antimony (dissolved)	0.097	1.00	ug/L		EPA 6020B
	Arsenic (dissolved)	0.021	1.00	ug/L		EPA 6020B
	Beryllium (dissolved)	0.010	0.300	ug/L		EPA 6020B
	Cadmium (dissolved)	0.009	0.500	ug/L		EPA 6020B
	Chromium (dissolved)	0.044	1.00	ug/L		EPA 6020B
	Copper (dissolved)	0.032	1.00	ug/L		EPA 6020B
	Lead (dissolved)	0.013	1.00	ug/L		EPA 6020B
	Nickel (dissolved)	0.027	1.00	ug/L		EPA 6020B
	Selenium (dissolved)	0.273	1.00	ug/L		EPA 6020B
	Silver (dissolved)	0.009	1.00	ug/L		EPA 6020B
	Thallium (dissolved)	0.131	1.00	ug/L		EPA 6020B
	Zinc (dissolved)	0.054	1.00	ug/L		EPA 6020B
BK90199-BLK1	Antimony (dissolved)	-0.063	1.11	ug/L		EPA 6020B
	Arsenic (dissolved)	-0.003	1.11	ug/L		EPA 6020B
	Beryllium (dissolved)	-0.0004	0.333	ug/L		EPA 6020B
	Cadmium (dissolved)	-0.001	0.556	ug/L		EPA 6020B
	Chromium (dissolved)	-0.081	1.11	ug/L		EPA 6020B
	Copper (dissolved)	0.175	1.11	ug/L		EPA 6020B
	Lead (dissolved)	0.004	1.11	ug/L		EPA 6020B
	Nickel (dissolved)	0.088	1.11	ug/L		EPA 6020B
	Selenium (dissolved)	-0.076	1.11	ug/L		EPA 6020B
	Silver (dissolved)	-0.0008	1.11	ug/L		EPA 6020B
	Thallium (dissolved)	0.038	1.11	ug/L		EPA 6020B
	Zinc (dissolved)	-0.080	1.11	ug/L		EPA 6020B
Y9K0708-CCB9	Antimony (dissolved)	0.087	1.00	ug/L		EPA 6020B
	Arsenic (dissolved)	-0.007	1.00	ug/L		EPA 6020B
	Beryllium (dissolved)	0.008	0.300	ug/L		EPA 6020B
	Cadmium (dissolved)	0.007	0.500	ug/L		EPA 6020B
	Chromium (dissolved)	0.051	1.00	ug/L		EPA 6020B
	Copper (dissolved)	0.028	1.00	ug/L		EPA 6020B

FORM I **BLANKS**

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: Nexion2000C Project: 41103.00 KINGSTON CVS

Sequence: Y9K0708 Calibration: 11/06/19 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y9K0708-CCB9	Lead (dissolved)	0.008	1.00	ug/L		EPA 6020B
	Nickel (dissolved)	0.041	1.00	ug/L		EPA 6020B
	Selenium (dissolved)	1.45	1.00	ug/L	*	EPA 6020B
	Silver (dissolved)	0.007	1.00	ug/L		EPA 6020B
	Thallium (dissolved)	0.103	1.00	ug/L		EPA 6020B
	Zinc (dissolved)	0.200	1.00	ug/L		EPA 6020B

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Sequence:	Y9K0708	Instrument:	Nexion2000C
		Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	Y9K0708-ICV1	QBIMX110619A-006	11/06/19 11:36
Initial Cal Blank	Y9K0708-ICB1	QBIMX110619A-007	11/06/19 11:41
Calibration Check	Y9K0708-CCV1	QBIMX110619A-008	11/06/19 11:47
Calibration Blank	Y9K0708-CCB1	QBIMX110619A-009	11/06/19 11:52
Instrument RL Check	Y9K0708-CRL1	QBIMX110619A-011	11/06/19 11:57
Instrument RL Check	Y9K0708-CRL1	QBIMX110619A-010	11/06/19 11:57
Interference Check A	Y9K0708-IFA1	QBIMX110619A-012	11/06/19 12:08
Interference Check B	Y9K0708-IFB1	QBIMX110619A-013	11/06/19 12:13
Calibration Check	Y9K0708-CCV2	QBIMX110619A-014	11/06/19 12:19
Calibration Blank	Y9K0708-CCB2	QBIMX110619A-015	11/06/19 12:24
Calibration Check	Y9K0708-CCV8	QBIMX110619A-082	11/06/19 18:26
Calibration Blank	Y9K0708-CCB8	QBIMX110619A-083	11/06/19 18:31
Blank	BK90199-BLK1	QBIMX110619A-084	11/06/19 18:37
LCS	BK90199-BS1	QBIMX110619A-085	11/06/19 18:42
KC-MW-01 1019	19J1295-01	QBIMX110619A-086	11/06/19 18:47
KC-MW-DUP 1019	19J1295-04	QBIMX110619A-087	11/06/19 18:53
Calibration Check	Y9K0708-CCV9	QBIMX110619A-094	11/06/19 19:30
Calibration Blank	Y9K0708-CCB9	QBIMX110619A-095	11/06/19 19:35

HOLDING TIME SUMMARY

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
KC-MW-01 1019	10/29/19 17:45	10/30/19 15:23	11/05/19 14:09	6.85	180.00	11/06/19 18:47	8.04	180.00	
KC-MW-DUP 1019	10/29/19 00:00	10/30/19 15:23	11/05/19 14:09	7.59	180.00	11/06/19 18:53	8.79	180.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19J1295

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Matrix: Water **Instrument:** Nexion2000C

Analyte	LOD	LOQ	Units
Antimony (dissolved)	1.00	1.00	ug/L
Arsenic (dissolved)	1.00	1.00	ug/L
Beryllium (dissolved)	0.300	0.300	ug/L
Cadmium (dissolved)	0.500	0.500	ug/L
Chromium (dissolved)	1.00	1.00	ug/L
Copper (dissolved)	1.00	1.00	ug/L
Lead (dissolved)	1.00	1.00	ug/L
Nickel (dissolved)	1.00	1.00	ug/L
Selenium (dissolved)	1.00	1.00	ug/L
Silver (dissolved)	1.00	1.00	ug/L
Thallium (dissolved)	1.00	1.00	ug/L
Zinc (dissolved)	1.00	1.00	ug/L

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

KC-MW-01 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-01 File ID: QBIMX110619A-086

Sampled: 10/29/19 17:45 Prepared: 11/05/19 14:09 Analyzed: 11/06/19 18:47

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK90199 Sequence: Y9K0708 Calibration: 11/06/19 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-36-0	Antimony (dissolved)	1.93	1		EPA 6020B
7440-38-2	Arsenic (dissolved)	25.5	1		EPA 6020B
7440-41-7	Beryllium (dissolved)	0.333	1	U	EPA 6020B
7440-43-9	Cadmium (dissolved)	0.556	1	U	EPA 6020B
7440-47-3	Chromium (dissolved)	1.11	1	U	EPA 6020B
7440-50-8	Copper (dissolved)	3.69	1		EPA 6020B
7439-92-1	Lead (dissolved)	1.11	1	U	EPA 6020B
7440-02-0	Nickel (dissolved)	338	1		EPA 6020B
7782-49-2	Selenium (dissolved)	5.93	1		EPA 6020B
7440-28-0	Thallium (dissolved)	1.11	1	U	EPA 6020B
7440-66-6	Zinc (dissolved)	12.7	1		EPA 6020B

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

KC-MW-DUP 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-04 File ID: QBIMX110619A-087

Sampled: 10/29/19 00:00 Prepared: 11/05/19 14:09 Analyzed: 11/06/19 18:53

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK90199 Sequence: Y9K0708 Calibration: 11/06/19 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-36-0	Antimony (dissolved)	1.88	1		EPA 6020B
7440-38-2	Arsenic (dissolved)	23.7	1		EPA 6020B
7440-41-7	Beryllium (dissolved)	0.333	1	U	EPA 6020B
7440-43-9	Cadmium (dissolved)	0.556	1	U	EPA 6020B
7440-47-3	Chromium (dissolved)	1.11	1	U	EPA 6020B
7440-50-8	Copper (dissolved)	1.11	1	U	EPA 6020B
7439-92-1	Lead (dissolved)	1.11	1	U	EPA 6020B
7440-02-0	Nickel (dissolved)	315	1		EPA 6020B
7782-49-2	Selenium (dissolved)	5.72	1		EPA 6020B
7440-28-0	Thallium (dissolved)	1.11	1	U	EPA 6020B
7440-66-6	Zinc (dissolved)	13.9	1		EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: Nexion2000C
Calibration: 11/06/19
Control Limt: +/- 10.00%
Sequence: Y9K0708

Lab Sample ID	Analyte	True	Found	%R		Units	Method
Y9K0708-ICV1	Antimony (dissolved)	50.0	48.3	96.6		ug/L	EPA 6020B
	Arsenic (dissolved)	50.0	46.8	93.6		ug/L	EPA 6020B
	Beryllium (dissolved)	50.0	51.6	103		ug/L	EPA 6020B
	Cadmium (dissolved)	50.0	50.2	100		ug/L	EPA 6020B
	Chromium (dissolved)	50.0	47.5	94.9		ug/L	EPA 6020B
	Copper (dissolved)	50.0	48.7	97.5		ug/L	EPA 6020B
	Lead (dissolved)	50.0	52.8	106		ug/L	EPA 6020B
	Nickel (dissolved)	50.0	49.2	98.4		ug/L	EPA 6020B
	Selenium (dissolved)	50.0	47.9	95.7		ug/L	EPA 6020B
	Silver (dissolved)	50.0	50.8	102		ug/L	EPA 6020B
	Thallium (dissolved)	50.0	52.0	104		ug/L	EPA 6020B
	Zinc (dissolved)	50.0	52.8	106		ug/L	EPA 6020B
Y9K0708-CCV1	Antimony (dissolved)	50.0	49.6	99.1		ug/L	EPA 6020B
	Arsenic (dissolved)	50.0	48.3	96.6		ug/L	EPA 6020B
	Beryllium (dissolved)	50.0	52.2	104		ug/L	EPA 6020B
	Cadmium (dissolved)	50.0	51.8	104		ug/L	EPA 6020B
	Chromium (dissolved)	50.0	49.1	98.2		ug/L	EPA 6020B
	Copper (dissolved)	50.0	49.4	98.7		ug/L	EPA 6020B
	Lead (dissolved)	50.0	52.8	106		ug/L	EPA 6020B
	Nickel (dissolved)	50.0	48.8	97.7		ug/L	EPA 6020B
	Selenium (dissolved)	50.0	47.9	95.9		ug/L	EPA 6020B
	Silver (dissolved)	50.0	53.1	106		ug/L	EPA 6020B
	Thallium (dissolved)	50.0	52.3	105		ug/L	EPA 6020B
	Zinc (dissolved)	50.0	44.4	88.8	*	ug/L	EPA 6020B
Y9K0708-CCV2	Antimony (dissolved)	50.0	57.7	115	*	ug/L	EPA 6020B
	Arsenic (dissolved)	50.0	51.6	103		ug/L	EPA 6020B
	Beryllium (dissolved)	50.0	60.2	120	*	ug/L	EPA 6020B
	Cadmium (dissolved)	50.0	59.9	120	*	ug/L	EPA 6020B
	Chromium (dissolved)	50.0	51.4	103		ug/L	EPA 6020B
	Copper (dissolved)	50.0	52.0	104		ug/L	EPA 6020B
	Lead (dissolved)	50.0	60.2	120	*	ug/L	EPA 6020B
	Nickel (dissolved)	50.0	52.0	104		ug/L	EPA 6020B
	Selenium (dissolved)	50.0	51.9	104		ug/L	EPA 6020B
	Silver (dissolved)	50.0	59.8	120	*	ug/L	EPA 6020B
	Thallium (dissolved)	50.0	59.5	119	*	ug/L	EPA 6020B
	Zinc (dissolved)	50.0	48.0	96.1		ug/L	EPA 6020B
Y9K0708-CCV8	Antimony (dissolved)	50.0	57.0	114	*	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: Nexion2000C
Calibration: 11/06/19
Control Limt: +/- 10.00%
Sequence: Y9K0708

Lab Sample ID	Analyte	True	Found	%R		Units	Method
Y9K0708-CCV8	Arsenic (dissolved)	50.0	51.1	102		ug/L	EPA 6020B
	Beryllium (dissolved)	50.0	59.5	119	*	ug/L	EPA 6020B
	Cadmium (dissolved)	50.0	56.6	113	*	ug/L	EPA 6020B
	Chromium (dissolved)	50.0	51.5	103		ug/L	EPA 6020B
	Copper (dissolved)	50.0	50.8	102		ug/L	EPA 6020B
	Lead (dissolved)	50.0	55.4	111	*	ug/L	EPA 6020B
	Nickel (dissolved)	50.0	50.7	101		ug/L	EPA 6020B
	Selenium (dissolved)	50.0	49.1	98.2		ug/L	EPA 6020B
	Silver (dissolved)	50.0	55.6	111	*	ug/L	EPA 6020B
	Thallium (dissolved)	50.0	53.8	108		ug/L	EPA 6020B
	Zinc (dissolved)	50.0	46.1	92.3		ug/L	EPA 6020B
Y9K0708-CCV9	Antimony (dissolved)	50.0	54.7	109		ug/L	EPA 6020B
	Arsenic (dissolved)	50.0	51.2	102		ug/L	EPA 6020B
	Beryllium (dissolved)	50.0	60.5	121	*	ug/L	EPA 6020B
	Cadmium (dissolved)	50.0	54.6	109		ug/L	EPA 6020B
	Chromium (dissolved)	50.0	52.1	104		ug/L	EPA 6020B
	Copper (dissolved)	50.0	50.8	102		ug/L	EPA 6020B
	Lead (dissolved)	50.0	53.4	107		ug/L	EPA 6020B
	Nickel (dissolved)	50.0	51.0	102		ug/L	EPA 6020B
	Selenium (dissolved)	50.0	47.1	94.1		ug/L	EPA 6020B
	Silver (dissolved)	50.0	53.4	107		ug/L	EPA 6020B
	Thallium (dissolved)	50.0	51.6	103		ug/L	EPA 6020B
	Zinc (dissolved)	50.0	46.6	93.2		ug/L	EPA 6020B

* Values outside of QC limits

CRDL STANDARD

EPA 6020B

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: Nexion2000C
Calibration: 11/06/19
Sequence: Y9K0708

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
Y9K0708-CRL1	Antimony (dissolved)	1.00	1.04	104	ug/L	75 - 125
	Arsenic (dissolved)	1.00	1.03	103	ug/L	75 - 125
	Beryllium (dissolved)	1.00	1.06	106	ug/L	75 - 125
	Cadmium (dissolved)	1.00	1.02	102	ug/L	75 - 125
	Chromium (dissolved)	1.00	1.10	110	ug/L	75 - 125
	Copper (dissolved)	1.00	1.12	112	ug/L	75 - 125
	Lead (dissolved)	1.00	1.10	110	ug/L	75 - 125
	Nickel (dissolved)	1.00	1.02	102	ug/L	75 - 125
	Selenium (dissolved)	1.00	1.90	190	ug/L	0 - 200
	Silver (dissolved)	1.00	1.06	106	ug/L	75 - 125
	Thallium (dissolved)	1.00	1.14	114	ug/L	75 - 125
	Zinc (dissolved)	1.00	0.495	49.5 *	ug/L	75 - 125

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: Nexion2000C
Calibration: 11/06/19
Sequence: Y9K0708

Lab Sample ID	Analyte	True	Found	%R	Units
Y9K0708-IFA1	Antimony (dissolved)		0.09		ug/L
	Arsenic (dissolved)		0.06		ug/L
	Beryllium (dissolved)		0.00		ug/L
	Cadmium (dissolved)		0.34		ug/L
	Chromium (dissolved)		0.13		ug/L
	Copper (dissolved)		0.06		ug/L
	Lead (dissolved)		0.02		ug/L
	Nickel (dissolved)		0.06		ug/L
	Selenium (dissolved)		1.99		ug/L
	Silver (dissolved)		0.02		ug/L
	Thallium (dissolved)		0.03		ug/L
	Zinc (dissolved)		0.14		ug/L
Y9K0708-IFB1	Antimony (dissolved)	20.0	20.81	104	ug/L
	Arsenic (dissolved)	20.0	20.31	102	ug/L
	Beryllium (dissolved)	20.0	20.54	103	ug/L
	Cadmium (dissolved)	20.0	21.66	108	ug/L
	Chromium (dissolved)	20.0	20.36	102	ug/L
	Copper (dissolved)	20.0	19.80	99.0	ug/L
	Lead (dissolved)	20.0	21.14	106	ug/L
	Nickel (dissolved)	20.0	19.77	98.9	ug/L
	Selenium (dissolved)	20.0	18.79	94.0	ug/L
	Silver (dissolved)	20.0	20.85	104	ug/L
	Thallium (dissolved)	20.0	21.66	108	ug/L
	Zinc (dissolved)	20.0	18.30	91.5	ug/L

* Values outside of QC limits

Metals Linear Dynamic Range

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Instrument: Nexion2000C

CAS NO.	Analyte	Concentration ug/L
7440-36-0	Antimony	1000
7440-38-2	Arsenic	1000
7440-41-7	Beryllium	1000
7440-43-9	Cadmium	1000
7440-47-3	Chromium	1000
7440-50-8	Copper	1000
7439-92-1	Lead	1000
7440-02-0	Nickel	1000
7782-49-2	Selenium	1000
7440-28-0	Thallium	1000
7440-66-6	Zinc	1000

BENCHSHEETS

SDG: 19J1295

CLASS: METALS

METHOD: EPA 6020B

PREPARATION BENCH SHEET-AQUEOUS: BK90199

Prepared: **11/05/2019 14:09**

York Analytical Laboratories, Inc.

Printed: 11/7/2019 12:47:39PM

Matrix: Water **Preparation EPA 3015A** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
19J1295-01 D	Metals, Priority Pol	45	50							NA			
19J1295-04 D	Metals, Priority Pol	45	50							NA			
19K0025-01 I	Metals, Target Anal	45	50							NA			
19K0025-01 I	Metals, Priority Pol	45	50							NA			Added for BatchQC in: BK90199
19K0025-01 I	Metals, CTDEP RC	45	50							NA			Added for BatchQC in: BK90199
19K0086-01 I	Metals, CTDEP RC	45	50							NA			
19K0086-02 I	Metals, CTDEP RC	45	50							NA			
19K0086-03 I	Metals, CTDEP RC	45	50							NA			
19K0086-04 I	Metals, CTDEP RC	45	50							NA			
19K0093-01 I	Metals, CTDEP RC	45	50							NA			
19K0093-02 I	Metals, CTDEP RC	45	50							NA			
BK90199-BLK1	QC	45	50							NA			
BK90199-BS1	QC	45	50	Y19K005	1					NA			
BK90199-DUP1	QC	45	50					19K0025-01		NA			
BK90199-MS1	QC	45	50	Y19K005	1			19K0025-01		NA			

Lab Filtered (Except 19J1295)

Reagents:

ID Number	Description	Lot Number
Y19I180	Hydrochloric Acid , ACS Grade 37'	0000229506

ID Number	Description	Lot Number
Y19I266	Nitric Acid , Instra-Analyzed Grade	234822

Preparation Performed by SY **Date:** 11/05/2019 14:09

Performance Check Report

Sample ID: [STD] Performance Check
Sample Date/Time: Wednesday, November 06, 2019 09:58:10
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX013118A\[STD] Performance Check.275
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\EPA 200 - Copy.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	5822.3	5806.986	42.987	0.7	Standard
	In	114.9	145275.8	145275.822	737.504	0.5	Standard
	U	238.1	186818.8	186818.775	6135.181	3.3	Standard
⌈	CeO	155.9	2089.8	0.016	0.000	1.1	Standard
| >	Ce	139.9	127052.7	127052.727	2536.342	2.0	Standard
⌊	Ce++	70.0	1575.2	0.012	0.000	1.6	Standard
	Bkgd	220.0	0.4	0.367	0.183	49.8	Standard

Current Conditions File Data

Current Value	Description
1.10	Standard - Nebulizer Gas Flow STD/KED [NEB]
1.20	Standard - Auxiliary Gas Flow
15.00	Standard - Plasma Gas Flow
0.00	Standard - Oxygen Gas Flow
-12.50	Standard - Deflector Voltage
1600.00	Standard - ICP RF Power
-2100.00	Standard - Analog Stage Voltage
1400.00	Standard - Pulse Stage Voltage
0.00	Standard - Quadrupole Rod Offset STD [QRO]
-2.00	Standard - Cell Rod Offset STD [CRO]
11.00	Standard - Discriminator Threshold
-4.00	Standard - Cell Entrance/Exit Voltage STD
1.10	Ammonia DRC - DRC Mode NEB
-9.00	Ammonia DRC - DRC Mode QRO
-2.00	Ammonia DRC - DRC Mode CRO
-7.00	Ammonia DRC - DRC Mode Cell Entrance/Exit Voltage
200.00	Ammonia DRC - Axial Field Voltage
0.00	Ammonia DRC - RPa
0.45	Ammonia DRC - RPq
0.60	Ammonia DRC - Cell Gas A
-12.00	Helium KED - KED Mode QRO
-15.00	Helium KED - KED Mode CRO
-8.00	Helium KED - KED Mode Cell Entrance Voltage
-25.00	Helium KED - KED Mode Cell Exit Voltage
475.00	Helium KED - KED Mode Axial Field Voltage
0.00	Helium KED - KED RPa
0.25	Helium KED - KED RPq
4.50	Helium KED - Cell Gas B

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\York.swz

Optimization Status

Start Time: 11/6/2019 10:01:14 AM

Mass Calibration and Resolution

Optimization Settings:

Method: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA 200 Tune.mth.

MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\EPA 200 - Copy.tun

Iterations: 6

Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution

Peak height (%) for Res. Opt.: 10

Optimization Results:

Initial Try

Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.694)

Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.696)

Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.709)

Target/Obtained mass (207.977/207.975), Target/Obtained resolution (0.7/0.720)

Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.703)

[Passed] Optimum value(s): N/A

Run List

Sample File Name: QBIMX110619A.sam

AS Loc.	Sample ID	Batch Index	Sample Type	Method
1	Blank		Blank	EPA6020_200.8_091119.mth
2	STD 1.0_5.0_50.0		Standard	EPA6020_200.8_091119.mth
3	STD 10.0_100.0		Standard	EPA6020_200.8_091119.mth
4	STD 20.0_1000		Standard	EPA6020_200.8_091119.mth
5	STD 100_5000		Standard	EPA6020_200.8_091119.mth
7	SEQ-ICV1		QC Std	EPA6020_200.8_091119.mth
1	SEQ-ICB1		QC Std	EPA6020_200.8_091119.mth
8	SEQ-CCV1	1	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB1	2	Sample	EPA6020_200.8_091119.mth
6	SEQ-CRL1	3	Sample	EPA6020_200.8_091119.mth
2	SEQ-CRL1	4	Sample	EPA6020_200.8_091119.mth
9	SEQ-IFA1	5	Sample	EPA6020_200.8_091119.mth
10	SEQ-IFB1	6	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV2	7	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB2	8	Sample	EPA6020_200.8_091119.mth
101	19J1295-04RE1	9	Sample	EPA6020_200.8_091119.mth
102	19J1309-01RE1	10	Sample	EPA6020_200.8_091119.mth
103	19J1309-02RE1	11	Sample	EPA6020_200.8_091119.mth
104	BK90024-BLK1	12	Sample	EPA6020_200.8_091119.mth
105	BK90024-BS1	13	Sample	EPA6020_200.8_091119.mth
106	19J1290-01	14	Sample	EPA6020_200.8_091119.mth
107	19J1293-01	15	Sample	EPA6020_200.8_091119.mth
108	19J1293-02	16	Sample	EPA6020_200.8_091119.mth
109	19J1293-03	17	Sample	EPA6020_200.8_091119.mth
110	BK90024-DUP1	18	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV3	19	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB3	20	Sample	EPA6020_200.8_091119.mth
111	BK90024-MS1	21	Sample	EPA6020_200.8_091119.mth
112	SEQ-SRD1	22	Sample	EPA6020_200.8_091119.mth
113	BK90025-BLK1	23	Sample	EPA6020_200.8_091119.mth
114	BK90025-BS1	24	Sample	EPA6020_200.8_091119.mth
115	19J1290-01	25	Sample	EPA6020_200.8_091119.mth
116	19J1293-01	26	Sample	EPA6020_200.8_091119.mth
117	19J1293-02	27	Sample	EPA6020_200.8_091119.mth
118	19J1293-03	28	Sample	EPA6020_200.8_091119.mth
119	BK90025-DUP1	29	Sample	EPA6020_200.8_091119.mth
120	BK90025-MS1	30	Sample	EPA6020_200.8_091119.mth

AS Loc.	Sample ID	Batch Index	Sample Type	Method
8	SEQ-CCV4	31	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB4	32	Sample	EPA6020_200.8_091119.mth
121	SEQ-SRD2	33	Sample	EPA6020_200.8_091119.mth
122	BK90104-BLK1	34	Sample	EPA6020_200.8_091119.mth
123	BK90104-BS1	35	Sample	EPA6020_200.8_091119.mth
124	19K0020-01	36	Sample	EPA6020_200.8_091119.mth
125	19K0020-02	37	Sample	EPA6020_200.8_091119.mth
126	19K0025-01	38	Sample	EPA6020_200.8_091119.mth
127	19K0040-01	39	Sample	EPA6020_200.8_091119.mth
128	19K0040-02	40	Sample	EPA6020_200.8_091119.mth
129	19K0040-03	41	Sample	EPA6020_200.8_091119.mth
130	19K0040-04	42	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV5	43	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB5	44	Sample	EPA6020_200.8_091119.mth
131	19K0040-05	45	Sample	EPA6020_200.8_091119.mth
132	19K0040-06	46	Sample	EPA6020_200.8_091119.mth
133	19K0040-07	47	Sample	EPA6020_200.8_091119.mth
134	19K0040-08	48	Sample	EPA6020_200.8_091119.mth
135	BK90104-DUP1	49	Sample	EPA6020_200.8_091119.mth
136	BK90104-MS1	50	Sample	EPA6020_200.8_091119.mth
137	SEQ-SRD3	51	Sample	EPA6020_200.8_091119.mth
138	BK90197-BLK1	52	Sample	EPA6020_200.8_091119.mth
139	BK90197-BS1	53	Sample	EPA6020_200.8_091119.mth
140	19K0108-01	54	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV6	55	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB6	56	Sample	EPA6020_200.8_091119.mth
141	19K0108-02	57	Sample	EPA6020_200.8_091119.mth
142	19K0108-03	58	Sample	EPA6020_200.8_091119.mth
143	19K0108-04	59	Sample	EPA6020_200.8_091119.mth
144	19K0108-05	60	Sample	EPA6020_200.8_091119.mth
145	19K0108-06	61	Sample	EPA6020_200.8_091119.mth
146	19K0108-07	62	Sample	EPA6020_200.8_091119.mth
147	19K0108-08	63	Sample	EPA6020_200.8_091119.mth
148	19K0108-09	64	Sample	EPA6020_200.8_091119.mth
149	19K0108-10	65	Sample	EPA6020_200.8_091119.mth
150	19K0108-11	66	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV7	67	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB7	68	Sample	EPA6020_200.8_091119.mth
151	19K0108-12	69	Sample	EPA6020_200.8_091119.mth
152	19K0108-13	70	Sample	EPA6020_200.8_091119.mth
153	19K0108-14	71	Sample	EPA6020_200.8_091119.mth
154	BK90197-DUP1	72	Sample	EPA6020_200.8_091119.mth

AS Loc.	Sample ID	Batch Index	Sample Type	Method
155	BK90197-MS1	73	Sample	EPA6020_200.8_091119.mth
156	SEQ-SRD4	74	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV8	75	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB8	76	Sample	EPA6020_200.8_091119.mth
301	BK90199-BLK1	77	Sample	EPA6020_200.8_091119.mth
302	BK90199-BS1	78	Sample	EPA6020_200.8_091119.mth
303	19J1295-01	79	Sample	EPA6020_200.8_091119.mth
304	19J1295-04	80	Sample	EPA6020_200.8_091119.mth
305	19K0025-01	81	Sample	EPA6020_200.8_091119.mth
306	19K0086-01	82	Sample	EPA6020_200.8_091119.mth
307	19K0086-02	83	Sample	EPA6020_200.8_091119.mth
308	19K0086-03	84	Sample	EPA6020_200.8_091119.mth
309	19K0086-04	85	Sample	EPA6020_200.8_091119.mth
310	19K0093-01	86	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCV9	87	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCB9	88	Sample	EPA6020_200.8_091119.mth
311	19K0093-02	89	Sample	EPA6020_200.8_091119.mth
312	BK90199-DUP1	90	Sample	EPA6020_200.8_091119.mth
313	BK90199-MS1	91	Sample	EPA6020_200.8_091119.mth
314	SEQ-SRD5	92	Sample	EPA6020_200.8_091119.mth
315	19J1290-01RE1	93	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCVA	94	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCBA	95	Sample	EPA6020_200.8_091119.mth
6	SEQ-CRL2	96	Sample	EPA6020_200.8_091119.mth
9	SEQ-IFA2	97	Sample	EPA6020_200.8_091119.mth
10	SEQ-IFB2	98	Sample	EPA6020_200.8_091119.mth
8	SEQ-CCVB	99	Sample	EPA6020_200.8_091119.mth
1	SEQ-CCBB	100	Sample	EPA6020_200.8_091119.mth

Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1

Sample Date/Time: Wednesday, November 06, 2019 11:36:36

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-ICV1.006

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	101.172884	ug/L	4.119	600148.967	Standard
|	Be	9	51.593508	ug/L	2.611	254339.797	Standard
⌊>	Sc	45		ug/L	1.685	785498.562	Standard
⌈	Al	27	999.635295	ug/L	0.918	96888.130	KED
|	Ti	48	88.257250	ug/L	1.863	73432.290	KED
|	V	51	47.407506	ug/L	1.506	140510.399	KED
|	Cr	52	47.466304	ug/L	2.729	196748.914	KED
|	Cr-1	53	47.849754	ug/L	2.833	23295.655	KED
|	Mn	55	48.194504	ug/L	0.441	64892.387	KED
|	Fe-1	57	963.977523	ug/L	2.498	64469.202	KED
|	Co	59	48.017515	ug/L	1.830	359999.863	KED
|	Ni	60	49.177982	ug/L	1.376	108177.422	KED
|	Cu	63	48.746776	ug/L	3.366	280359.674	KED
|	Cu-1	65	48.408838	ug/L	0.937	142015.780	KED
|	Zn	66	52.791530	ug/L	2.520	23176.126	KED
|	Zn-1	67	54.754968	ug/L	1.786	4023.900	KED
|>	Ge	72		ug/L	2.404	93523.249	KED
|	As	75	46.781531	ug/L	2.361	11466.602	KED
|	Se	82	47.874379	ug/L	9.022	289.336	KED
|	Se-1	78	44.027397	ug/L	13.033	531.911	KED
|	Se-2	77	48.623678	ug/L	6.096	173.902	KED
|	Mo	98	47.086746	ug/L	1.263	193963.354	KED
⌊	Mo-1	97	48.584377	ug/L	0.647	74119.119	KED
⌈	Sr	88	94.866352	ug/L	1.800	11272327.967	Standard
|	Ag	107	50.772243	ug/L	1.383	2192634.011	Standard
|	Ag-1	109	50.494978	ug/L	0.710	2106303.297	Standard
|	Cd	111	50.195621	ug/L	1.106	465915.727	Standard
|	Cd-1	114	50.678443	ug/L	1.645	1153504.289	Standard
|>	Rh	103		ug/L	1.084	1008436.096	Standard
|	Sn	118	95.540838	ug/L	0.915	3125663.468	Standard
|	Sb-1	121	49.297802	ug/L	1.941	1368386.507	Standard
⌊	Sb	123	48.316155	ug/L	1.135	1015317.437	Standard
⌈	Ba	135	50.281665	ug/L	0.781	399669.165	Standard
⌊>	Tb	159		ug/L	0.596	1050874.773	Standard
⌈>	Ho	165		ug/L	0.940	1004005.816	Standard
|	Tl-1	203	52.676890	ug/L	0.679	1769178.659	Standard
|	Tl	205	51.982427	ug/L	0.940	4259680.326	Standard
|	Pb-1	206	52.585034	ug/L	1.078	1495474.076	Standard
|	Pb-2	207	52.789072	ug/L	1.035	1350994.579	Standard
⌊	Pb	208	52.795023	ug/L	0.499	6057520.182	Standard
⌈	Ne	20		ug/L	2.501	321884.739	Standard
|	Na	23	1024.580791	ug/L	3.161	6133380.067	Standard
|	Mg	26	1061.131136	ug/L	3.686	3281942.655	Standard
|	K	39	1090.915405	ug/L	2.741	4433177.015	Standard
|	Ca	43	1256.269168	ug/L	2.724	161583.799	Standard
|	Fe	57	1030.485020	ug/L	1.031	1573126.556	Standard
⌊>	Sc-1	45		ug/L	1.685	785498.562	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1

Sample Date/Time: Wednesday, November 06, 2019 11:41:55

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-ICB1.007

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌜	B	11	0.034527	ug/L	4.512	4957.528	Standard
|	Be	9	0.004381	ug/L	27.702	54.667	Standard
⌞>	Sc	45		ug/L	0.682	824249.835	Standard
⌜	Al	27	1.486102	ug/L	2.620	966.699	KED
|	Ti	48	-0.006325	ug/L	16.902	69.334	KED
|	V	51	-0.040165	ug/L	7.293	911.363	KED
|	Cr	52	0.007419	ug/L	2.846	2682.252	KED
|	Cr-1	53	-0.021334	ug/L	5.953	610.680	KED
|	Mn	55	0.003024	ug/L	28.057	68.000	KED
|	Fe-1	57	0.719217	ug/L	13.827	159.334	KED
|	Co	59	0.012107	ug/L	16.050	148.667	KED
|	Ni	60	0.010746	ug/L	7.219	263.336	KED
|	Cu	63	0.014419	ug/L	2.505	322.670	KED
|	Cu-1	65	0.019241	ug/L	17.165	174.001	KED
|	Zn	66	-0.150577	ug/L	5.743	495.342	KED
|	Zn-1	67	-0.327955	ug/L	19.975	66.667	KED
|>	Ge	72		ug/L	3.359	93381.772	KED
|	As	75	0.008005	ug/L	39.001	31.333	KED
|	Se	82	0.124561	ug/L	9.116	12.667	KED
|	Se-1	78	0.407079	ug/L	681.355	-0.740	KED
|	Se-2	77	1.277743	ug/L	35.557	3.260	KED
|	Mo	98	0.072402	ug/L	15.028	398.672	KED
⌞	Mo-1	97	0.058711	ug/L	5.719	141.334	KED
⌜	Sr	88	-0.000717	ug/L	2.861	3941.211	Standard
|	Ag	107	0.003927	ug/L	14.751	376.005	Standard
|	Ag-1	109	0.003556	ug/L	8.625	347.338	Standard
|	Cd	111	0.001684	ug/L	15.231	74.667	Standard
|	Cd-1	114	0.002292	ug/L	5.438	384.005	Standard
|>	Rh	103		ug/L	0.516	1040235.997	Standard
|	Sn	118	0.029707	ug/L	2.637	6954.360	Standard
|	Sb-1	121	0.077227	ug/L	4.957	4874.166	Standard
⌞	Sb	123	0.073438	ug/L	2.560	3578.192	Standard
⌜	Ba	135	0.002870	ug/L	12.244	174.668	Standard
⌞>	Tb	159		ug/L	2.438	1084104.376	Standard
⌜>	Ho	165		ug/L	0.394	1032475.288	Standard
|	Tl-1	203	0.166632	ug/L	4.904	6865.652	Standard
|	Tl	205	0.170336	ug/L	4.318	16976.761	Standard
|	Pb-1	206	0.004279	ug/L	8.953	419.340	Standard
|	Pb-2	207	0.002848	ug/L	12.209	369.338	Standard
⌞	Pb	208	0.003672	ug/L	2.746	1708.707	Standard
⌜	Ne	20		ug/L	2.028	315121.223	Standard
|	Na	23	-3.450308	ug/L	3.232	42299.240	Standard
|	Mg	26	0.023173	ug/L	3.502	10303.718	Standard
|	K	39	1.307493	ug/L	1.629	158710.903	Standard
|	Ca	43	0.187988	ug/L	4.973	1946.133	Standard
|	Fe	57	-3.315238	ug/L	1.389	44422.971	Standard
⌞>	Sc-1	45		ug/L	0.682	824249.835	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1

Sample Date/Time: Wednesday, November 06, 2019 11:47:14

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-CCV1.008

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	50.831248	ug/L	4.850	311039.436	Standard
|	Be	9	52.207592	ug/L	1.037	263455.278	Standard
⌊>	Sc	45		ug/L	1.355	804140.815	Standard
⌈	Al	27	2530.732447	ug/L	1.911	244709.935	KED
|	Ti	48	49.267913	ug/L	2.248	41129.810	KED
|	V	51	48.424804	ug/L	2.491	143864.393	KED
|	Cr	52	49.104544	ug/L	1.313	203939.544	KED
|	Cr-1	53	49.156313	ug/L	0.355	23976.103	KED
|	Mn	55	50.189380	ug/L	0.466	67785.107	KED
|	Fe-1	57	2597.612065	ug/L	0.499	173982.384	KED
|	Co	59	49.859202	ug/L	1.142	374813.045	KED
|	Ni	60	48.825741	ug/L	5.804	107687.928	KED
|	Cu	63	49.371621	ug/L	1.589	284626.593	KED
|	Cu-1	65	49.235123	ug/L	2.272	144838.112	KED
|	Zn	66	44.396846	ug/L	2.068	19625.475	KED
|	Zn-1	67	45.703951	ug/L	2.484	3382.401	KED
|>	Ge	72		ug/L	2.179	93800.370	KED
|	As	75	48.310565	ug/L	0.865	11875.601	KED
|	Se	82	47.926465	ug/L	6.651	290.003	KED
|	Se-1	78	45.087699	ug/L	13.253	544.537	KED
|	Se-2	77	41.355338	ug/L	13.054	147.860	KED
|	Mo	98	48.542909	ug/L	0.979	200520.240	KED
⌊	Mo-1	97	50.594767	ug/L	1.500	77395.785	KED
⌈	Sr	88	51.086841	ug/L	1.222	6020526.062	Standard
|	Ag	107	53.130523	ug/L	0.413	2274960.643	Standard
|	Ag-1	109	53.451631	ug/L	1.168	2210638.502	Standard
|	Cd	111	51.792339	ug/L	2.572	476631.415	Standard
|	Cd-1	114	49.925435	ug/L	3.031	1126618.725	Standard
|>	Rh	103		ug/L	0.951	999930.364	Standard
|	Sn	118	49.879858	ug/L	3.688	1620756.359	Standard
|	Sb-1	121	50.105450	ug/L	1.826	1379119.917	Standard
⌊	Sb	123	49.559193	ug/L	1.432	1032636.827	Standard
⌈	Ba	135	52.098793	ug/L	1.952	413366.685	Standard
⌊>	Tb	159		ug/L	2.252	1049254.110	Standard
⌈>	Ho	165		ug/L	1.139	1017420.424	Standard
|	Tl-1	203	53.243029	ug/L	1.633	1811812.978	Standard
|	Tl	205	52.334066	ug/L	0.538	4345463.850	Standard
|	Pb-1	206	52.553220	ug/L	0.923	1514514.644	Standard
|	Pb-2	207	52.591762	ug/L	1.118	1363974.772	Standard
⌊	Pb	208	52.837280	ug/L	1.276	6143347.688	Standard
⌈	Ne	20		ug/L	2.520	341895.191	Standard
|	Na	23	2647.624521	ug/L	2.101	16126513.052	Standard
|	Mg	26	2686.912845	ug/L	4.531	8492200.291	Standard
|	K	39	2723.667966	ug/L	2.743	11106795.930	Standard
|	Ca	43	2749.044692	ug/L	1.424	359638.545	Standard
|	Fe	57	2776.093576	ug/L	0.804	4256827.317	Standard
⌊>	Sc-1	45		ug/L	1.355	804140.815	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1

Sample Date/Time: Wednesday, November 06, 2019 11:52:33

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-CCB1.009

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	-0.026183	ug/L	4.263	4436.023	Standard
|	Be	9	0.007280	ug/L	8.575	67.333	Standard
⌊>	Sc	45		ug/L	1.455	798057.881	Standard
⌈	Al	27	2.038651	ug/L	1.336	996.701	KED
|	Ti	48	-0.026822	ug/L	13.683	51.333	KED
|	V	51	-0.044290	ug/L	1.369	880.694	KED
|	Cr	52	0.031388	ug/L	3.961	2716.925	KED
|	Cr-1	53	0.024288	ug/L	11.104	619.347	KED
|	Mn	55	0.008335	ug/L	15.021	73.334	KED
|	Fe-1	57	0.758510	ug/L	3.172	158.668	KED
|	Co	59	0.012451	ug/L	11.061	148.001	KED
|	Ni	60	0.017831	ug/L	3.466	272.669	KED
|	Cu	63	0.012871	ug/L	13.371	306.670	KED
|	Cu-1	65	0.021064	ug/L	9.290	175.334	KED
|	Zn	66	-0.144281	ug/L	13.302	488.675	KED
|	Zn-1	67	0.021936	ug/L	21.199	90.000	KED
|>	Ge	72		ug/L	4.386	91345.480	KED
|	As	75	0.010276	ug/L	3.685	31.333	KED
|	Se	82	1.818517	ug/L	31.492	22.000	KED
|	Se-1	78	0.696625	ug/L	117.912	2.604	KED
|	Se-2	77	0.954536	ug/L	206.875	1.937	KED
|	Mo	98	0.053603	ug/L	4.500	315.337	KED
⌊	Mo-1	97	0.050952	ug/L	23.704	126.001	KED
⌈	Sr	88	-0.000565	ug/L	2.944	3815.176	Standard
|	Ag	107	0.004669	ug/L	11.074	393.339	Standard
|	Ag-1	109	0.005397	ug/L	11.839	410.006	Standard
|	Cd	111	0.005168	ug/L	13.462	104.000	Standard
|	Cd-1	114	0.005755	ug/L	4.890	448.674	Standard
|>	Rh	103		ug/L	2.973	1002600.940	Standard
|	Sn	118	0.026483	ug/L	5.731	6586.188	Standard
|	Sb-1	121	0.070081	ug/L	3.216	4495.374	Standard
⌊	Sb	123	0.074425	ug/L	3.628	3464.831	Standard
⌈	Ba	135	0.005000	ug/L	14.422	184.668	Standard
⌊>	Tb	159		ug/L	2.788	1041073.556	Standard
⌈>	Ho	165		ug/L	1.891	1013197.816	Standard
|	Tl-1	203	0.128123	ug/L	7.208	5427.034	Standard
|	Tl	205	0.133219	ug/L	3.597	13583.127	Standard
|	Pb-1	206	0.005555	ug/L	10.062	448.007	Standard
|	Pb-2	207	0.006030	ug/L	7.443	444.007	Standard
⌊	Pb	208	0.005273	ug/L	4.536	1861.380	Standard
⌈	Ne	20		ug/L	2.223	316073.441	Standard
|	Na	23	-3.298790	ug/L	1.450	41870.612	Standard
|	Mg	26	0.188893	ug/L	5.318	10499.865	Standard
|	K	39	2.958032	ug/L	1.460	160264.745	Standard
|	Ca	43	-0.055629	ug/L	7.878	1854.121	Standard
|	Fe	57	-2.443187	ug/L	3.530	44332.739	Standard
⌊>	Sc-1	45		ug/L	1.455	798057.881	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1

Sample Date/Time: Wednesday, November 06, 2019 11:57:52

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-CRL1.010

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	5.332611	ug/L	2.690	37428.992	Standard
|	Be	9	1.093720	ug/L	1.390	5647.783	Standard
⌊>	Sc	45		ug/L	4.238	819261.289	Standard
⌈	Al	27	49.408897	ug/L	0.944	5693.801	KED
|	Ti	48	4.697603	ug/L	2.831	4063.245	KED
|	V	51	1.055528	ug/L	4.958	4225.959	KED
|	Cr	52	1.108171	ug/L	0.980	7337.884	KED
|	Cr-1	53	1.274690	ug/L	3.444	1251.388	KED
|	Mn	55	1.068775	ug/L	4.583	1534.749	KED
|	Fe-1	57	51.113743	ug/L	3.059	3599.787	KED
|	Co	59	1.052759	ug/L	4.014	8120.977	KED
|	Ni	60	1.123103	ug/L	3.337	2762.934	KED
|	Cu	63	1.122402	ug/L	2.387	6831.634	KED
|	Cu-1	65	1.119520	ug/L	2.422	3472.422	KED
|	Zn	66	2.342095	ug/L	2.328	1596.756	KED
|	Zn-1	67	2.483041	ug/L	7.189	274.003	KED
|>	Ge	72		ug/L	1.527	95501.538	KED
|	As	75	0.944463	ug/L	4.930	266.002	KED
|	Se	82	4.693612	ug/L	37.749	40.000	KED
|	Se-1	78	1.052917	ug/L	152.408	7.245	KED
|	Se-2	77	2.877272	ug/L	119.359	9.245	KED
|	Mo	98	1.004566	ug/L	2.260	4329.323	KED
⌊	Mo-1	97	1.001172	ug/L	0.869	1612.091	KED
⌈	Sr	88	5.396326	ug/L	1.326	642535.593	Standard
|	Ag	107	1.113425	ug/L	1.477	48119.584	Standard
|	Ag-1	109	1.093234	ug/L	1.488	45635.452	Standard
|	Cd	111	1.073948	ug/L	3.889	9991.496	Standard
|	Cd-1	114	1.228969	ug/L	2.037	28198.477	Standard
|>	Rh	103		ug/L	5.411	1006638.236	Standard
|	Sn	118	5.362257	ug/L	2.643	180374.095	Standard
|	Sb-1	121	1.125982	ug/L	1.478	33663.622	Standard
⌊	Sb	123	1.101664	ug/L	1.264	24947.012	Standard
⌈	Ba	135	1.163260	ug/L	2.444	9176.948	Standard
⌊>	Tb	159		ug/L	3.323	1028088.014	Standard
⌈>	Ho	165		ug/L	3.871	977156.247	Standard
|	Tl-1	203	1.241907	ug/L	3.111	41580.464	Standard
|	Tl	205	1.256773	ug/L	0.841	102538.698	Standard
|	Pb-1	206	1.197440	ug/L	2.086	33372.947	Standard
|	Pb-2	207	1.183720	ug/L	1.491	29720.889	Standard
⌊	Pb	208	1.215837	ug/L	1.516	136764.011	Standard
⌈	Ne	20		ug/L	1.812	303576.323	Standard
|	Na	23	44.340270	ug/L	3.707	337344.762	Standard
|	Mg	26	54.368525	ug/L	3.280	184942.946	Standard
|	K	39	54.384293	ug/L	1.947	375038.979	Standard
|	Ca	43	97.824572	ug/L	2.788	14859.728	Standard
|	Fe	57	55.871731	ug/L	2.914	135427.922	Standard
⌊>	Sc-1	45		ug/L	4.238	819261.289	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1

Sample Date/Time: Wednesday, November 06, 2019 12:03:13

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-CRL1.011

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	5.290441	ug/L	2.650	38171.620	Standard
|	Be	9	1.058188	ug/L	1.961	5615.104	Standard
|>	Sc	45		ug/L	1.026	840679.190	Standard
⌈	Al	27	45.630948	ug/L	2.594	5297.649	KED
|	Ti	48	4.712047	ug/L	3.674	4055.243	KED
|	V	51	1.065339	ug/L	3.370	4236.629	KED
|	Cr	52	1.095358	ug/L	4.619	7253.177	KED
|	Cr-1	53	1.184206	ug/L	4.246	1202.051	KED
|	Mn	55	1.050466	ug/L	3.361	1502.079	KED
|	Fe-1	57	47.955424	ug/L	4.838	3368.398	KED
|	Co	59	1.054583	ug/L	4.646	8096.964	KED
|	Ni	60	1.024538	ug/L	3.295	2530.224	KED
|	Cu	63	1.082453	ug/L	2.598	6565.509	KED
|	Cu-1	65	1.083274	ug/L	2.296	3348.393	KED
|	Zn	66	0.495005	ug/L	11.041	784.688	KED
|	Zn-1	67	0.370035	ug/L	13.091	118.667	KED
|>	Ge	72		ug/L	1.291	95047.175	KED
|	As	75	1.031567	ug/L	9.900	286.670	KED
|	Se	82	1.898224	ug/L	17.843	23.333	KED
|	Se-1	78	1.271820	ug/L	40.674	9.911	KED
|	Se-2	77	1.987890	ug/L	58.221	5.911	KED
|	Mo	98	0.957451	ug/L	2.761	4109.925	KED
⌊	Mo-1	97	1.006020	ug/L	4.869	1612.758	KED
⌈	Sr	88	5.193041	ug/L	2.225	638764.144	Standard
|	Ag	107	1.062837	ug/L	2.795	47438.675	Standard
|	Ag-1	109	1.051591	ug/L	3.173	45331.190	Standard
|	Cd	111	1.022660	ug/L	2.312	9824.045	Standard
|	Cd-1	114	1.158174	ug/L	0.430	27440.997	Standard
|>	Rh	103		ug/L	2.628	1037929.973	Standard
|	Sn	118	5.223705	ug/L	0.906	181438.995	Standard
|	Sb-1	121	1.041802	ug/L	1.528	32362.621	Standard
⌊	Sb	123	1.039991	ug/L	2.021	24422.693	Standard
⌈	Ba	135	1.056018	ug/L	1.309	8768.691	Standard
|>	Tb	159		ug/L	2.046	1079472.160	Standard
⌈>	Ho	165		ug/L	0.969	1032909.471	Standard
|	Tl-1	203	1.113448	ug/L	1.325	39557.365	Standard
|	Tl	205	1.143382	ug/L	1.801	98955.618	Standard
|	Pb-1	206	1.103998	ug/L	1.331	32584.457	Standard
|	Pb-2	207	1.067750	ug/L	0.718	28399.535	Standard
⌊	Pb	208	1.098929	ug/L	0.984	130955.622	Standard
⌈	Ne	20		ug/L	2.470	309107.689	Standard
|	Na	23	40.145070	ug/L	3.072	319686.920	Standard
|	Mg	26	50.360175	ug/L	1.727	176609.185	Standard
|	K	39	48.111721	ug/L	2.771	358710.612	Standard
|	Ca	43	51.243364	ug/L	3.420	8933.461	Standard
|	Fe	57	49.772418	ug/L	2.380	129470.261	Standard
|>	Sc-1	45		ug/L	1.026	840679.190	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1

Sample Date/Time: Wednesday, November 06, 2019 12:08:32

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-IFA1.012

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
	B	11	-0.174299	ug/L	3.800	3133.677	Standard
	Be	9	0.003011	ug/L	19.876	40.667	Standard
>	Sc	45		ug/L	0.993	704317.574	Standard
	Al	27	9460.387102	ug/L	2.167	802275.479	KED
	Ti	48	194.194507	ug/L	1.089	142305.994	KED
	V	51	0.037316	ug/L	3.118	1006.702	KED
	Cr	52	0.131762	ug/L	3.039	2814.944	KED
	Cr-1	53	0.399465	ug/L	5.988	714.018	KED
	Mn	55	0.098404	ug/L	0.666	173.334	KED
	Fe-1	57	9989.177709	ug/L	2.030	587826.557	KED
	Co	59	0.042335	ug/L	11.772	331.337	KED
	Ni	60	0.059915	ug/L	5.677	327.337	KED
	Cu	63	0.062543	ug/L	8.835	528.676	KED
	Cu-1	65	0.071345	ug/L	13.618	288.670	KED
	Zn	66	0.139125	ug/L	6.569	546.677	KED
	Zn-1	67	0.178957	ug/L	11.320	90.667	KED
>	Ge	72		ug/L	1.107	82415.064	KED
	As	75	0.058103	ug/L	30.308	38.667	KED
	Se	82	1.986065	ug/L	20.145	20.667	KED
	Se-1	78	0.026557	ug/L	88.357	-4.766	KED
	Se-2	77	0.541870	ug/L	1475.788	0.567	KED
	Mo	98	206.697496	ug/L	1.145	750143.426	KED
	Mo-1	97	207.626124	ug/L	0.564	279037.533	KED
	Sr	88	0.075152	ug/L	1.771	10957.535	Standard
	Ag	107	0.016432	ug/L	4.241	772.021	Standard
	Ag-1	109	0.016271	ug/L	3.716	740.019	Standard
	Cd	111	0.339391	ug/L	3.413	2736.929	Standard
	Cd-1	114	0.220762	ug/L	2.669	4563.396	Standard
>	Rh	103		ug/L	1.893	861144.558	Standard
	Sn	118	0.169232	ug/L	1.290	9645.255	Standard
	Sb-1	121	0.088595	ug/L	1.393	4301.981	Standard
	Sb	123	0.087938	ug/L	1.492	3220.690	Standard
	Ba	135	0.092475	ug/L	2.826	782.688	Standard
>	Tb	159		ug/L	2.155	933507.863	Standard
>	Ho	165		ug/L	2.587	907563.334	Standard
	Tl-1	203	0.029235	ug/L	2.537	1864.122	Standard
	Tl	205	0.029638	ug/L	4.346	4500.710	Standard
	Pb-1	206	0.021491	ug/L	0.514	810.690	Standard
	Pb-2	207	0.022014	ug/L	3.646	768.021	Standard
	Pb	208	0.022642	ug/L	2.106	3468.169	Standard
	Ne	20		ug/L	1.919	386365.598	Standard
	Na	23	10583.439889	ug/L	3.046	56285382.220	Standard
	Mg	26	9537.555927	ug/L	3.315	26368379.389	Standard
	K	39	10297.765166	ug/L	2.045	36407203.755	Standard
	Ca	43	10392.855062	ug/L	1.109	1186479.080	Standard
	Fe	57	10317.558320	ug/L	3.006	13741077.324	Standard
>	Sc-1	45		ug/L	0.993	704317.574	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1

Sample Date/Time: Wednesday, November 06, 2019 12:13:51

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-IFB1.013

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
	B	11	-0.213811	ug/L	1.159	2904.295	Standard
	Be	9	20.537377	ug/L	1.140	90124.079	Standard
>	Sc	45		ug/L	2.932	699498.643	Standard
	Al	27	9329.958589	ug/L	0.731	788066.639	KED
	Ti	48	190.639355	ug/L	2.711	139171.614	KED
	V	51	19.983789	ug/L	3.497	52527.805	KED
	Cr	52	20.356584	ug/L	0.176	75394.428	KED
	Cr-1	53	20.073631	ug/L	2.914	8894.770	KED
	Mn	55	19.562700	ug/L	0.731	23164.767	KED
	Fe-1	57	9823.301465	ug/L	2.092	575784.092	KED
	Co	59	19.824466	ug/L	2.750	130513.770	KED
	Ni	60	19.771396	ug/L	4.019	38309.353	KED
	Cu	63	19.800071	ug/L	2.814	100072.803	KED
	Cu-1	65	19.742872	ug/L	2.086	50920.617	KED
	Zn	66	18.302609	ug/L	0.426	7374.570	KED
	Zn-1	67	19.421974	ug/L	3.538	1304.060	KED
>	Ge	72		ug/L	0.144	82092.529	KED
	As	75	20.306767	ug/L	0.435	4384.673	KED
	Se	82	18.794796	ug/L	16.449	106.000	KED
	Se-1	78	19.709936	ug/L	14.308	205.908	KED
	Se-2	77	21.423978	ug/L	3.489	66.573	KED
	Mo	98	219.317961	ug/L	0.938	792837.179	KED
	Mo-1	97	226.874702	ug/L	1.384	303729.918	KED
	Sr	88	0.076171	ug/L	0.878	11008.240	Standard
	Ag	107	20.845551	ug/L	2.511	765381.694	Standard
	Ag-1	109	20.680711	ug/L	0.906	733232.513	Standard
	Cd	111	21.660511	ug/L	1.152	170931.961	Standard
	Cd-1	114	20.282277	ug/L	2.461	392527.737	Standard
>	Rh	103		ug/L	1.981	857235.470	Standard
	Sn	118	0.269830	ug/L	1.465	12395.376	Standard
	Sb-1	121	21.182495	ug/L	1.935	501088.759	Standard
	Sb	123	20.813577	ug/L	2.498	372743.862	Standard
	Ba	135	20.259460	ug/L	3.505	143316.546	Standard
>	Tb	159		ug/L	2.410	934562.410	Standard
>	Ho	165		ug/L	1.917	907449.835	Standard
	Tl-1	203	21.249713	ug/L	1.383	645597.252	Standard
	Tl	205	21.659779	ug/L	1.621	1605319.275	Standard
	Pb-1	206	21.024013	ug/L	1.602	540421.849	Standard
	Pb-2	207	20.685117	ug/L	0.214	478540.355	Standard
	Pb	208	21.141229	ug/L	0.196	2192559.553	Standard
	Ne	20		ug/L	1.796	375276.929	Standard
	Na	23	10670.353259	ug/L	3.654	56369513.668	Standard
	Mg	26	9288.023319	ug/L	3.463	25506488.677	Standard
	K	39	10177.237122	ug/L	1.385	35727254.641	Standard
	Ca	43	10123.993019	ug/L	2.635	1147758.186	Standard
	Fe	57	10155.660629	ug/L	1.269	13432076.865	Standard
>	Sc-1	45		ug/L	2.932	699498.643	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2

Sample Date/Time: Wednesday, November 06, 2019 12:19:10

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-CCV2.014

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
	B	11	56.429341	ug/L	1.540	279454.598	Standard
	Be	9	60.208479	ug/L	1.214	246493.243	Standard
>	Sc	45		ug/L	8.048	655115.685	Standard
	Al	27	2571.784796	ug/L	0.857	221034.253	KED
	Ti	48	50.408649	ug/L	1.853	37392.217	KED
	V	51	51.760328	ug/L	2.609	136632.579	KED
	Cr	52	51.393875	ug/L	3.279	189610.919	KED
	Cr-1	53	50.390714	ug/L	3.325	21832.015	KED
	Mn	55	50.111738	ug/L	1.214	60146.362	KED
	Fe-1	57	2692.801132	ug/L	1.587	160290.387	KED
	Co	59	50.889639	ug/L	0.257	339964.267	KED
	Ni	60	51.985282	ug/L	3.470	101910.498	KED
	Cu	63	51.962022	ug/L	2.371	266200.878	KED
	Cu-1	65	52.088209	ug/L	0.971	136178.690	KED
	Zn	66	48.030123	ug/L	1.016	18831.738	KED
	Zn-1	67	48.700439	ug/L	8.957	3199.027	KED
>	Ge	72		ug/L	1.978	83343.135	KED
	As	75	51.645911	ug/L	2.570	11277.118	KED
	Se	82	51.869220	ug/L	2.594	278.003	KED
	Se-1	78	48.819982	ug/L	5.335	525.286	KED
	Se-2	77	60.402500	ug/L	4.910	192.611	KED
	Mo	98	50.371076	ug/L	1.649	184851.139	KED
	Mo-1	97	52.043063	ug/L	0.572	70746.750	KED
	Sr	88	57.154811	ug/L	1.045	5536690.145	Standard
	Ag	107	59.752881	ug/L	2.028	2101970.082	Standard
	Ag-1	109	59.958095	ug/L	0.565	2038907.324	Standard
	Cd	111	59.898122	ug/L	0.553	453448.934	Standard
	Cd-1	114	57.714970	ug/L	2.507	1071590.226	Standard
>	Rh	103		ug/L	7.570	825314.289	Standard
	Sn	118	56.512100	ug/L	0.870	1509758.773	Standard
	Sb-1	121	58.438078	ug/L	1.741	1321705.831	Standard
	Sb	123	57.699049	ug/L	2.812	988437.348	Standard
	Ba	135	55.469615	ug/L	2.488	373507.710	Standard
>	Tb	159		ug/L	8.860	895357.478	Standard
>	Ho	165		ug/L	7.685	851745.955	Standard
	Tl-1	203	60.555868	ug/L	2.494	1716385.378	Standard
	Tl	205	59.548338	ug/L	0.752	4122048.299	Standard
	Pb-1	206	59.626587	ug/L	0.422	1432995.147	Standard
	Pb-2	207	60.693993	ug/L	0.339	1312745.757	Standard
	Pb	208	60.232688	ug/L	0.320	5840231.076	Standard
	Ne	20		ug/L	2.998	325075.118	Standard
	Na	23	3152.908737	ug/L	2.808	15583944.652	Standard
	Mg	26	2995.528726	ug/L	4.023	7665433.202	Standard
	K	39	3342.756095	ug/L	1.219	11037359.101	Standard
	Ca	43	3132.412574	ug/L	2.161	331976.143	Standard
	Fe	57	3224.913477	ug/L	3.316	4005449.525	Standard
>	Sc-1	45		ug/L	8.048	655115.685	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2

Sample Date/Time: Wednesday, November 06, 2019 12:24:28

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-CCB2.015

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	-0.166066	ug/L	3.387	3253.037	Standard
|	Be	9	0.005315	ug/L	17.625	52.000	Standard
⌊>	Sc	45		ug/L	1.954	721037.381	Standard
⌈	Al	27	2.856449	ug/L	1.994	984.701	KED
|	Ti	48	-0.020216	ug/L	31.482	52.000	KED
|	V	51	-0.025542	ug/L	8.416	857.359	KED
|	Cr	52	0.003986	ug/L	1.464	2391.534	KED
|	Cr-1	53	-0.019877	ug/L	4.267	547.344	KED
|	Mn	55	0.016512	ug/L	8.314	77.334	KED
|	Fe-1	57	0.957217	ug/L	11.535	157.334	KED
|	Co	59	0.011477	ug/L	12.403	129.334	KED
|	Ni	60	0.000958	ug/L	5.249	216.668	KED
|	Cu	63	0.018643	ug/L	4.130	311.337	KED
|	Cu-1	65	0.015807	ug/L	8.294	147.334	KED
|	Zn	66	-0.060426	ug/L	2.448	478.675	KED
|	Zn-1	67	0.054386	ug/L	14.483	84.000	KED
|>	Ge	72		ug/L	1.695	83690.474	KED
|	As	75	-0.020201	ug/L	39.626	22.000	KED
|	Se	82	3.611299	ug/L	32.222	29.333	KED
|	Se-1	78	0.526851	ug/L	1089.167	0.594	KED
|	Se-2	77	0.751456	ug/L	644.052	1.260	KED
|	Mo	98	0.088008	ug/L	13.656	416.673	KED
⌊	Mo-1	97	0.100042	ug/L	2.519	183.335	KED
⌈	Sr	88	-0.001089	ug/L	4.792	3480.425	Standard
|	Ag	107	0.005268	ug/L	14.221	389.339	Standard
|	Ag-1	109	0.004968	ug/L	11.396	365.338	Standard
|	Cd	111	0.002022	ug/L	20.868	69.334	Standard
|	Cd-1	114	0.003293	ug/L	4.695	364.005	Standard
|>	Rh	103		ug/L	3.061	929853.306	Standard
|	Sn	118	0.021095	ug/L	0.550	5953.240	Standard
|	Sb-1	121	0.065110	ug/L	5.907	4040.573	Standard
⌊	Sb	123	0.066048	ug/L	2.204	3053.487	Standard
⌈	Ba	135	0.007217	ug/L	12.374	187.335	Standard
⌊>	Tb	159		ug/L	0.894	967271.778	Standard
⌈>	Ho	165		ug/L	2.383	932622.658	Standard
|	Tl-1	203	0.119595	ug/L	8.054	4726.785	Standard
|	Tl	205	0.120981	ug/L	7.369	11562.027	Standard
|	Pb-1	206	0.004990	ug/L	2.862	397.339	Standard
|	Pb-2	207	0.004831	ug/L	5.049	380.672	Standard
⌊	Pb	208	0.004417	ug/L	1.659	1622.036	Standard
⌈	Ne	20		ug/L	1.308	298672.904	Standard
|	Na	23	-3.054958	ug/L	3.318	39156.963	Standard
|	Mg	26	0.133417	ug/L	0.982	9323.041	Standard
|	K	39	7.783234	ug/L	1.129	162184.851	Standard
|	Ca	43	1.543529	ug/L	1.149	1860.788	Standard
|	Fe	57	-3.007330	ug/L	2.862	39285.305	Standard
⌊>	Sc-1	45		ug/L	1.954	721037.381	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8

Sample Date/Time: Wednesday, November 06, 2019 18:26:38

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-CCV8.082

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌜	B	11	59.828315	ug/L	3.552	367575.337	Standard
|	Be	9	59.496374	ug/L	2.902	302268.073	Standard
⌞>	Sc	45		ug/L	2.934	810470.836	Standard
⌜	Al	27	2807.056502	ug/L	0.557	240843.940	KED
|	Ti	48	53.271755	ug/L	2.618	39471.145	KED
|	V	51	52.083661	ug/L	2.717	137313.758	KED
|	Cr	52	51.466294	ug/L	1.665	189618.360	KED
|	Cr-1	53	51.034074	ug/L	2.036	22071.041	KED
|	Mn	55	54.049196	ug/L	1.508	64777.220	KED
|	Fe-1	57	2749.631620	ug/L	1.990	163449.980	KED
|	Co	59	51.263580	ug/L	2.030	342043.424	KED
|	Ni	60	50.724466	ug/L	2.850	99302.793	KED
|	Cu	63	50.800750	ug/L	2.034	259948.372	KED
|	Cu-1	65	50.503256	ug/L	3.053	131880.311	KED
|	Zn	66	46.146195	ug/L	3.163	18090.788	KED
|	Zn-1	67	48.083098	ug/L	1.413	3153.681	KED
|>	Ge	72		ug/L	1.259	83216.362	KED
|	As	75	51.050717	ug/L	3.265	11135.675	KED
|	Se	82	49.087089	ug/L	3.897	263.336	KED
|	Se-1	78	51.095984	ug/L	5.861	549.256	KED
|	Se-2	77	52.088618	ug/L	13.457	165.912	KED
|	Mo	98	50.640606	ug/L	2.365	185614.504	KED
⌞	Mo-1	97	53.256563	ug/L	0.273	72302.507	KED
⌜	Sr	88	53.860239	ug/L	2.094	5916148.638	Standard
|	Ag	107	55.590979	ug/L	0.831	2219152.646	Standard
|	Ag-1	109	55.629483	ug/L	2.924	2144700.878	Standard
|	Cd	111	56.622822	ug/L	1.160	485949.626	Standard
|	Cd-1	114	55.104718	ug/L	4.253	1159003.294	Standard
|>	Rh	103		ug/L	3.617	933014.732	Standard
|	Sn	118	55.662978	ug/L	1.963	1685161.028	Standard
|	Sb-1	121	56.279047	ug/L	0.426	1443816.322	Standard
⌞	Sb	123	57.020426	ug/L	2.481	1107281.331	Standard
⌜	Ba	135	56.356027	ug/L	1.461	425276.801	Standard
⌞>	Tb	159		ug/L	2.435	998321.337	Standard
⌜>	Ho	165		ug/L	1.703	949984.931	Standard
|	Tl-1	203	56.945857	ug/L	0.351	1809218.062	Standard
|	Tl	205	53.792058	ug/L	2.071	4169817.586	Standard
|	Pb-1	206	56.683545	ug/L	0.682	1524908.215	Standard
|	Pb-2	207	56.260831	ug/L	1.364	1362010.958	Standard
⌞	Pb	208	55.411943	ug/L	1.517	6013807.425	Standard
⌜	Ne	20		ug/L	1.454	407808.993	Standard
|	Na	23	3484.963242	ug/L	5.229	21351995.975	Standard
|	Mg	26	3142.246667	ug/L	5.718	9991084.563	Standard
|	K	39	3106.967709	ug/L	0.405	12738796.631	Standard
|	Ca	43	2936.831543	ug/L	2.877	386780.820	Standard
|	Fe	57	2669.035893	ug/L	1.747	4124319.836	Standard
⌞>	Sc-1	45		ug/L	2.934	810470.836	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8

Sample Date/Time: Wednesday, November 06, 2019 18:31:57

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-CCB8.083

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	0.305237	ug/L	5.310	6453.460	Standard
|	Be	9	0.010103	ug/L	6.453	82.000	Standard
⌊>	Sc	45		ug/L	3.279	802223.017	Standard
⌈	Al	27	4.477577	ug/L	7.703	1112.710	KED
|	Ti	48	0.022041	ug/L	6.089	82.667	KED
|	V	51	-0.014176	ug/L	6.711	878.027	KED
|	Cr	52	0.043536	ug/L	0.951	2509.554	KED
|	Cr-1	53	-0.072762	ug/L	15.000	520.010	KED
|	Mn	55	0.028893	ug/L	7.690	91.334	KED
|	Fe-1	57	1.719126	ug/L	15.174	201.335	KED
|	Co	59	0.018795	ug/L	1.307	176.668	KED
|	Ni	60	0.026731	ug/L	4.617	264.669	KED
|	Cu	63	0.031934	ug/L	7.836	376.005	KED
|	Cu-1	65	0.032730	ug/L	6.574	190.001	KED
|	Zn	66	0.054373	ug/L	3.872	517.343	KED
|	Zn-1	67	0.012326	ug/L	12.230	80.667	KED
|>	Ge	72		ug/L	2.249	82824.818	KED
|	As	75	0.020630	ug/L	7.531	30.667	KED
|	Se	82	0.273203	ug/L	0.000	12.000	KED
|	Se-1	78	0.588201	ug/L	181.712	1.276	KED
|	Se-2	77	1.407371	ug/L	92.998	3.276	KED
|	Mo	98	0.067441	ug/L	5.951	336.671	KED
⌊	Mo-1	97	0.060528	ug/L	2.706	128.001	KED
⌈	Sr	88	0.015694	ug/L	4.315	5498.393	Standard
|	Ag	107	0.008769	ug/L	8.060	546.677	Standard
|	Ag-1	109	0.009162	ug/L	17.884	543.344	Standard
|	Cd	111	0.008578	ug/L	5.547	130.001	Standard
|	Cd-1	114	0.008066	ug/L	4.805	480.008	Standard
|>	Rh	103		ug/L	1.188	961418.296	Standard
|	Sn	118	0.065362	ug/L	0.412	7536.654	Standard
|	Sb-1	121	0.090794	ug/L	0.086	4862.161	Standard
⌊	Sb	123	0.096700	ug/L	5.692	3770.238	Standard
⌈	Ba	135	0.035811	ug/L	0.952	420.006	Standard
⌊>	Tb	159		ug/L	1.528	1024765.565	Standard
⌈>	Ho	165		ug/L	1.823	974005.397	Standard
|	Tl-1	203	0.128939	ug/L	3.434	5245.630	Standard
|	Tl	205	0.131018	ug/L	7.681	12875.823	Standard
|	Pb-1	206	0.013703	ug/L	10.041	654.682	Standard
|	Pb-2	207	0.012784	ug/L	2.524	594.679	Standard
⌊	Pb	208	0.012827	ug/L	5.180	2628.761	Standard
⌈	Ne	20		ug/L	1.749	387388.545	Standard
|	Na	23	12.516881	ug/L	0.493	137709.901	Standard
|	Mg	26	1.870491	ug/L	1.177	15833.437	Standard
|	K	39	7.776412	ug/L	0.256	180299.986	Standard
|	Ca	43	5.005537	ug/L	2.804	2516.888	Standard
|	Fe	57	-2.259612	ug/L	1.731	44820.882	Standard
⌊>	Sc-1	45		ug/L	3.279	802223.017	Standard

Quantitative Analysis - Summary Report

Sample ID: BK90199-BLK1

Sample Date/Time: Wednesday, November 06, 2019 18:37:15

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\BK90199-BLK1.084

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌜	B	11	0.091202	ug/L	1.984	5414.359	Standard
|	Be	9	-0.000385	ug/L	26.357	30.667	Standard
⌞>	Sc	45		ug/L	2.005	840813.228	Standard
⌜	Al	27	17.206917	ug/L	1.405	2279.515	KED
|	Ti	48	0.025901	ug/L	9.391	88.667	KED
|	V	51	0.028674	ug/L	3.618	1027.370	KED
|	Cr	52	-0.073114	ug/L	0.282	2166.831	KED
|	Cr-1	53	0.144528	ug/L	4.668	634.014	KED
|	Mn	55	0.025997	ug/L	12.643	91.334	KED
|	Fe-1	57	2.424702	ug/L	11.691	252.002	KED
|	Co	59	0.000908	ug/L	20.817	60.000	KED
|	Ni	60	0.078817	ug/L	7.462	380.005	KED
|	Cu	63	0.157493	ug/L	2.958	1052.705	KED
|	Cu-1	65	0.161662	ug/L	2.088	544.677	KED
|	Zn	66	-0.071600	ug/L	3.135	487.342	KED
|	Zn-1	67	-0.062282	ug/L	19.082	78.667	KED
|>	Ge	72		ug/L	1.826	85979.350	KED
|	As	75	-0.002591	ug/L	15.613	26.667	KED
|	Se	82	-0.068373	ug/L	39.031	10.667	KED
|	Se-1	78	0.159992	ug/L	179.197	-3.422	KED
|	Se-2	77	0.132312	ug/L	852.121	-0.755	KED
|	Mo	98	0.033906	ug/L	6.114	222.668	KED
⌞	Mo-1	97	0.027606	ug/L	10.906	86.667	KED
⌜	Sr	88	0.003550	ug/L	5.334	4313.319	Standard
|	Ag	107	-0.000739	ug/L	6.065	162.668	Standard
|	Ag-1	109	-0.000915	ug/L	14.667	150.001	Standard
|	Cd	111	-0.001218	ug/L	36.735	45.333	Standard
|	Cd-1	114	-0.003775	ug/L	3.569	233.335	Standard
|>	Rh	103		ug/L	1.821	1004760.010	Standard
|	Sn	118	-0.042794	ug/L	2.646	4357.998	Standard
|	Sb-1	121	-0.060009	ug/L	2.841	918.696	Standard
⌞	Sb	123	-0.056639	ug/L	4.244	737.847	Standard
⌜	Ba	135	0.014635	ug/L	6.154	266.002	Standard
⌞>	Tb	159		ug/L	0.476	1064609.636	Standard
⌜>	Ho	165		ug/L	1.322	1025341.475	Standard
|	Tl-1	203	0.031429	ug/L	5.883	2183.501	Standard
|	Tl	205	0.033929	ug/L	1.253	5449.706	Standard
|	Pb-1	206	0.004246	ug/L	8.672	415.339	Standard
|	Pb-2	207	0.002596	ug/L	7.516	360.005	Standard
⌞	Pb	208	0.003355	ug/L	1.756	1659.371	Standard
⌜	Ne	20		ug/L	1.840	408981.624	Standard
|	Na	23	9.771093	ug/L	2.423	127032.522	Standard
|	Mg	26	-1.024173	ug/L	3.468	7056.410	Standard
|	K	39	7.989224	ug/L	0.151	189961.988	Standard
|	Ca	43	15.116093	ug/L	3.054	4017.899	Standard
|	Fe	57	0.910434	ug/L	1.453	52013.865	Standard
⌞>	Sc-1	45		ug/L	2.005	840813.228	Standard

Quantitative Analysis - Summary Report

Sample ID: BK90199-BS1

Sample Date/Time: Wednesday, November 06, 2019 18:42:33

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\BK90199-BS1.085

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌜	B	11	50.634329	ug/L	2.314	315603.988	Standard
|	Be	9	49.473627	ug/L	2.365	254357.258	Standard
⌞>	Sc	45		ug/L	0.916	819287.435	Standard
⌜	Al	27	2300.372754	ug/L	2.790	196956.442	KED
|	Ti	48	44.212872	ug/L	0.416	32698.045	KED
|	V	51	43.091784	ug/L	0.988	113528.012	KED
|	Cr	52	41.541763	ug/L	2.055	153173.692	KED
|	Cr-1	53	41.483196	ug/L	3.256	18015.360	KED
|	Mn	55	43.332824	ug/L	0.174	51833.197	KED
|	Fe-1	57	2219.197828	ug/L	1.398	131687.583	KED
|	Co	59	41.359364	ug/L	0.805	275395.259	KED
|	Ni	60	41.567128	ug/L	1.820	81196.145	KED
|	Cu	63	42.323864	ug/L	1.428	216194.501	KED
|	Cu-1	65	41.377916	ug/L	1.250	107863.721	KED
|	Zn	66	36.526594	ug/L	1.385	14395.250	KED
|	Zn-1	67	37.945293	ug/L	4.457	2502.219	KED
|>	Ge	72		ug/L	3.538	83105.226	KED
|	As	75	41.797088	ug/L	1.970	9104.901	KED
|	Se	82	42.351706	ug/L	16.418	228.669	KED
|	Se-1	78	39.268830	ug/L	5.010	419.928	KED
|	Se-2	77	42.195064	ug/L	19.585	133.256	KED
|	Mo	98	42.212225	ug/L	2.810	154498.044	KED
⌞	Mo-1	97	42.445956	ug/L	2.695	57513.597	KED
⌜	Sr	88	43.219273	ug/L	2.183	4929652.615	Standard
|	Ag	107	44.966230	ug/L	1.221	1863174.973	Standard
|	Ag-1	109	43.809799	ug/L	2.167	1753730.638	Standard
|	Cd	111	44.385631	ug/L	0.868	395234.354	Standard
|	Cd-1	114	43.534533	ug/L	2.295	950804.725	Standard
|>	Rh	103		ug/L	2.058	967705.881	Standard
|	Sn	118	44.173481	ug/L	1.150	1389424.605	Standard
|	Sb-1	121	44.607697	ug/L	1.291	1188412.953	Standard
⌞	Sb	123	44.329551	ug/L	1.847	893832.625	Standard
⌜	Ba	135	45.333949	ug/L	0.734	351154.242	Standard
⌞>	Tb	159		ug/L	1.892	1024179.061	Standard
⌜>	Ho	165		ug/L	0.715	966664.784	Standard
|	Tl-1	203	45.557186	ug/L	0.646	1473225.392	Standard
|	Tl	205	43.866373	ug/L	0.860	3461261.367	Standard
|	Pb-1	206	45.745991	ug/L	0.627	1252601.537	Standard
|	Pb-2	207	46.297546	ug/L	1.505	1140791.810	Standard
⌞	Pb	208	45.775458	ug/L	1.319	5056684.671	Standard
⌜	Ne	20		ug/L	1.075	421135.039	Standard
|	Na	23	2924.658542	ug/L	3.104	18143891.773	Standard
|	Mg	26	2569.020629	ug/L	4.275	8273056.306	Standard
|	K	39	2598.225989	ug/L	0.734	10800406.246	Standard
|	Ca	43	2349.630735	ug/L	2.399	313556.373	Standard
|	Fe	57	2188.967577	ug/L	0.889	3430701.857	Standard
⌞>	Sc-1	45		ug/L	0.916	819287.435	Standard

Quantitative Analysis - Summary Report

Sample ID: 19J1295-01

Sample Date/Time: Wednesday, November 06, 2019 18:47:52

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\19J1295-01.086

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	97.977037	ug/L	1.034	544922.443	Standard
|	Be	9	0.011279	ug/L	10.020	80.667	Standard
⌊>	Sc	45		ug/L	0.161	736407.477	Standard
⌈	Al	27	22.703623	ug/L	4.572	1784.778	KED
|	Ti	48	334.223519	ug/L	2.273	164752.898	KED
|	V	51	0.340422	ug/L	5.092	1210.051	KED
|	Cr	52	0.372740	ug/L	3.105	2478.882	KED
|	Cr-1	53	0.696420	ug/L	7.305	562.678	KED
|	Mn	55	2524.637463	ug/L	2.135	2014121.434	KED
|	Fe-1	57	973.135711	ug/L	1.665	38588.724	KED
|	Co	59	99.875494	ug/L	2.973	443799.296	KED
|	Ni	60	304.599504	ug/L	1.877	396633.998	KED
|	Cu	63	3.320974	ug/L	3.927	11448.590	KED
|	Cu-1	65	3.342430	ug/L	3.492	5877.210	KED
|	Zn	66	11.442547	ug/L	3.691	3237.034	KED
|	Zn-1	67	15.831730	ug/L	5.781	729.352	KED
| >	Ge	72		ug/L	6.517	55657.851	KED
|	As	75	22.990829	ug/L	0.729	3353.727	KED
|	Se	82	5.333137	ug/L	32.868	25.333	KED
|	Se-1	78	0.990240	ug/L	136.337	3.901	KED
|	Se-2	77	5.424971	ug/L	122.039	10.567	KED
|	Mo	98	3.122804	ug/L	4.683	7676.065	KED
⌊	Mo-1	97	3.202074	ug/L	3.307	2927.634	KED
⌈	Sr	88	1007.006669	ug/L	1.606	75398156.148	Standard
|	Ag	107	0.007221	ug/L	12.294	319.337	Standard
|	Ag-1	109	0.003396	ug/L	14.519	208.002	Standard
|	Cd	111	0.340649	ug/L	1.248	2028.811	Standard
|	Cd-1	114	0.327507	ug/L	3.243	4900.174	Standard
| >	Rh	103		ug/L	1.025	635722.035	Standard
|	Sn	118	0.054351	ug/L	0.819	4756.792	Standard
|	Sb-1	121	1.640333	ug/L	0.208	30279.389	Standard
⌊	Sb	123	1.733259	ug/L	2.480	24128.282	Standard
⌈	Ba	135	112.595947	ug/L	0.829	664774.335	Standard
⌊>	Tb	159		ug/L	0.659	780705.717	Standard
⌈>	Ho	165		ug/L	1.244	751888.642	Standard
|	Tl-1	203	0.126692	ug/L	5.871	3993.226	Standard
|	Tl	205	0.129274	ug/L	3.776	9840.058	Standard
|	Pb-1	206	0.528161	ug/L	1.809	11461.263	Standard
|	Pb-2	207	0.504074	ug/L	2.262	9870.743	Standard
⌊	Pb	208	0.517211	ug/L	0.853	45355.525	Standard
⌈	Ne	20		ug/L	0.307	3003785.967	Standard
|	Na	23	S	ug/L	S	S	Standard
|	Mg	2(	46380.188235	ug/L	1.896	134068123.831	Standard
|	K	39	2945.463579	ug/L	1.514	10987176.160	Standard
|	Ca	4	144826.416626	ug/L	1.274	17265909.801	Standard
|	Fe	57	1266.413858	ug/L	0.430	1802696.020	Standard
⌊>	Sc-1	45		ug/L	0.161	736407.477	Standard

Quantitative Analysis - Summary Report

Sample ID: 19J1295-04

Sample Date/Time: Wednesday, November 06, 2019 18:53:10

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\19J1295-04.087

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	96.381446	ug/L	1.268	520957.072	Standard
|	Be	9	0.004487	ug/L	21.651	48.000	Standard
|>	Sc	45		ug/L	2.363	715762.353	Standard
⌈	Al	27	72.681042	ug/L	2.344	4866.162	KED
|	Ti	48	316.760134	ug/L	0.715	164029.016	KED
|	V	51	0.280871	ug/L	0.914	1158.047	KED
|	Cr	52	0.272363	ug/L	3.561	2348.193	KED
|	Cr-1	53	0.522707	ug/L	11.330	541.344	KED
|	Mn	55	2377.046182	ug/L	0.964	1992272.995	KED
|	Fe-1	57	992.438979	ug/L	2.036	41333.058	KED
|	Co	59	94.745414	ug/L	1.751	442417.540	KED
|	Ni	60	283.884272	ug/L	1.267	388278.400	KED
|	Cu	63	0.352341	ug/L	2.090	1410.736	KED
|	Cu-1	65	0.344003	ug/L	0.493	702.017	KED
|	Zn	66	12.529919	ug/L	3.851	3692.478	KED
|	Zn-1	67	17.815842	ug/L	4.607	853.359	KED
|>	Ge	72		ug/L	0.376	58245.164	KED
|	As	75	21.373719	ug/L	4.065	3273.709	KED
|	Se	82	5.146820	ug/L	23.077	26.000	KED
|	Se-1	78	0.097941	ug/L	356.437	-2.823	KED
|	Se-2	77	2.072789	ug/L	317.239	3.843	KED
|	Mo	98	2.902304	ug/L	2.025	7507.306	KED
⌊	Mo-1	97	3.033109	ug/L	2.603	2912.964	KED
⌈	Sr	88	1043.817449	ug/L	1.208	74481379.348	Standard
|	Ag	107	0.001732	ug/L	3.704	162.001	Standard
|	Ag-1	109	-0.000379	ug/L	11.698	104.000	Standard
|	Cd	111	0.329833	ug/L	0.185	1874.123	Standard
|	Cd-1	114	0.299966	ug/L	1.489	4291.978	Standard
|>	Rh	103		ug/L	5.793	607473.427	Standard
|	Sn	118	0.026907	ug/L	2.026	3999.227	Standard
|	Sb-1	121	1.592936	ug/L	1.265	28066.212	Standard
⌊	Sb	123	1.693008	ug/L	1.244	22492.116	Standard
⌈	Ba	135	117.859524	ug/L	2.880	667194.022	Standard
⌊>	Tb	159		ug/L	5.807	751069.733	Standard
⌈>	Ho	165		ug/L	5.075	735596.011	Standard
|	Tl-1	203	0.032310	ug/L	1.944	1584.088	Standard
|	Tl	205	0.033077	ug/L	1.066	3850.519	Standard
|	Pb-1	206	0.515055	ug/L	0.537	10922.174	Standard
|	Pb-2	207	0.492751	ug/L	1.997	9433.114	Standard
⌊	Pb	208	0.509851	ug/L	0.477	43690.331	Standard
⌈	Ne	20		ug/L	0.497	2970448.852	Standard
|	Na	23	S	ug/L	S	S	Standard
|	Mg	2(	46996.601396	ug/L	0.367	131988169.541	Standard
|	K	39	2896.629236	ug/L	1.513	10499792.075	Standard
|	Ca	4	147264.897030	ug/L	0.167	17057985.947	Standard
|	Fe	57	1358.835030	ug/L	1.489	1875820.176	Standard
⌊>	Sc-1	45		ug/L	2.363	715762.353	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9

Sample Date/Time: Wednesday, November 06, 2019 19:30:23

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-CCV9.094

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	62.126070	ug/L	2.870	394125.613	Standard
|	Be	9	60.532916	ug/L	2.084	317705.594	Standard
|>	Sc	45		ug/L	0.576	836319.015	Standard
⌈	Al	27	2842.682351	ug/L	0.577	246025.119	KED
|	Ti	48	53.107179	ug/L	1.730	39697.758	KED
|	V	51	52.928266	ug/L	2.270	140767.039	KED
|	Cr	52	52.146220	ug/L	3.219	193839.104	KED
|	Cr-1	53	51.656980	ug/L	2.823	22535.103	KED
|	Mn	55	55.051939	ug/L	2.659	66571.490	KED
|	Fe-1	57	2765.630069	ug/L	2.668	165882.653	KED
|	Co	59	51.105407	ug/L	0.862	343916.032	KED
|	Ni	60	50.988180	ug/L	0.506	100676.848	KED
|	Cu	63	50.793254	ug/L	1.014	262119.702	KED
|	Cu-1	65	50.522627	ug/L	0.472	133075.621	KED
|	Zn	66	46.604873	ug/L	0.164	18421.203	KED
|	Zn-1	67	48.085529	ug/L	2.157	3181.021	KED
|>	Ge	72		ug/L	2.518	83969.494	KED
|	As	75	51.220658	ug/L	3.097	11273.116	KED
|	Se	82	47.073731	ug/L	18.021	255.336	KED
|	Se-1	78	49.477762	ug/L	3.259	535.932	KED
|	Se-2	77	52.542831	ug/L	9.677	168.589	KED
|	Mo	98	51.525708	ug/L	1.149	190519.446	KED
⌊	Mo-1	97	52.103066	ug/L	0.922	71344.384	KED
⌈	Sr	88	52.264119	ug/L	2.122	5977579.020	Standard
|	Ag	107	53.438412	ug/L	1.873	2220801.690	Standard
|	Ag-1	109	53.326485	ug/L	0.740	2139963.350	Standard
|	Cd	111	54.635565	ug/L	1.390	488008.367	Standard
|	Cd-1	114	52.982727	ug/L	1.733	1160239.186	Standard
|>	Rh	103		ug/L	2.260	970519.932	Standard
|	Sn	118	54.928750	ug/L	2.365	1731648.724	Standard
|	Sb-1	121	54.759150	ug/L	1.528	1462092.289	Standard
⌊	Sb	123	54.652549	ug/L	1.340	1104713.579	Standard
⌈	Ba	135	54.233970	ug/L	1.645	430967.168	Standard
⌊>	Tb	159		ug/L	1.201	1050587.246	Standard
⌈>	Ho	165		ug/L	1.015	1013194.072	Standard
|	Tl-1	203	55.346300	ug/L	0.301	1875722.787	Standard
|	Tl	205	51.562161	ug/L	0.772	4263870.291	Standard
|	Pb-1	206	55.115943	ug/L	2.109	1581649.993	Standard
|	Pb-2	207	54.951250	ug/L	1.287	1419029.578	Standard
⌊	Pb	208	53.364553	ug/L	1.043	6178422.598	Standard
⌈	Ne	20		ug/L	1.227	452238.676	Standard
|	Na	23	3288.356410	ug/L	4.827	20810744.489	Standard
|	Mg	26	2887.847573	ug/L	2.024	9489137.752	Standard
|	K	39	3002.068818	ug/L	0.856	12714799.503	Standard
|	Ca	43	2850.867036	ug/L	1.854	387871.518	Standard
|	Fe	57	2613.582540	ug/L	1.075	4171444.562	Standard
⌊>	Sc-1	45		ug/L	0.576	836319.015	Standard

Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9

Sample Date/Time: Wednesday, November 06, 2019 19:35:42

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\EPA6020_200.8_091119.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\QBIMX110619A\SEQ-CCB9.095

Sample Description:

Summary

Int. STD	Analyte	Mass	Conc. Mean	Units	Meas. Intens. RSD	Meas. Intens. Mean	Mode
⌈	B	11	0.624388	ug/L	2.830	8496.527	Standard
|	Be	9	0.007798	ug/L	9.846	71.334	Standard
|>	Sc	45		ug/L	2.050	814622.456	Standard
⌈	Al	27	4.965227	ug/L	2.208	1150.713	KED
|	Ti	48	-0.000259	ug/L	18.182	66.000	KED
|	V	51	-0.002824	ug/L	3.214	904.029	KED
|	Cr	52	0.050574	ug/L	3.843	2528.224	KED
|	Cr-1	53	0.098829	ug/L	5.601	590.012	KED
|	Mn	55	0.127138	ug/L	15.264	208.002	KED
|	Fe-1	57	2.741513	ug/L	7.762	260.669	KED
|	Co	59	0.016462	ug/L	9.343	160.668	KED
|	Ni	60	0.040518	ug/L	6.892	290.670	KED
|	Cu	63	0.028477	ug/L	5.890	356.671	KED
|	Cu-1	65	0.024006	ug/L	1.833	166.668	KED
|	Zn	66	0.200234	ug/L	2.854	570.678	KED
|	Zn-1	67	0.476962	ug/L	16.664	110.000	KED
|>	Ge	72		ug/L	1.819	82564.623	KED
|	As	75	-0.006774	ug/L	32.769	24.667	KED
|	Se	82	1.450701	ug/L	50.918	18.000	KED
|	Se-1	78	-0.155314	ug/L	34.241	-6.771	KED
|	Se-2	77	-1.127829	ug/L	64.391	-4.771	KED
|	Mo	98	0.061501	ug/L	8.329	314.003	KED
⌊	Mo-1	97	0.049529	ug/L	12.083	112.667	KED
⌈	Sr	88	0.012798	ug/L	4.274	5322.993	Standard
|	Ag	107	0.007207	ug/L	11.291	496.009	Standard
|	Ag-1	109	0.007317	ug/L	21.147	482.675	Standard
|	Cd	111	0.006558	ug/L	11.804	115.334	Standard
|	Cd-1	114	0.007284	ug/L	11.298	476.008	Standard
|>	Rh	103		ug/L	3.116	990867.967	Standard
|	Sn	118	0.060074	ug/L	2.493	7594.019	Standard
|	Sb-1	121	0.082955	ug/L	4.215	4790.804	Standard
⌊	Sb	123	0.086849	ug/L	6.712	3677.384	Standard
⌈	Ba	135	0.029403	ug/L	6.108	376.672	Standard
⌊>	Tb	159		ug/L	2.247	1043133.858	Standard
⌈>	Ho	165		ug/L	0.722	1004126.433	Standard
|	Tl-1	203	0.102014	ug/L	6.628	4507.380	Standard
|	Tl	205	0.102939	ug/L	9.681	10988.251	Standard
|	Pb-1	206	0.009044	ug/L	6.831	543.344	Standard
|	Pb-2	207	0.006765	ug/L	2.234	459.341	Standard
⌊	Pb	208	0.007873	ug/L	5.320	2143.397	Standard
⌈	Ne	20		ug/L	2.343	424431.560	Standard
|	Na	23	11.569121	ug/L	2.154	134120.172	Standard
|	Mg	26	1.346180	ug/L	5.213	14420.621	Standard
|	K	39	10.196264	ug/L	0.229	193040.852	Standard
|	Ca	43	4.403800	ug/L	0.840	2478.882	Standard
|	Fe	57	-1.069834	ug/L	1.433	47351.691	Standard
⌊>	Sc-1	45		ug/L	2.050	814622.456	Standard

York Analytical Laboratories, Inc.
SDG: 19J1295
CLASS: METALS
METHOD: EPA 6010D

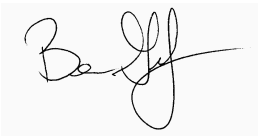
DATA PACKAGE COVER PAGE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS

Client Sample Id:	Lab Sample Id:
KC-MW-01 1019	19J1295-01
KC-MW-02 1019	19J1295-02
KC-MW-05 1019	19J1295-03
KC-MW-DUP 1019	19J1295-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature: 
Name: Benjamin Gulizia

Date: 11/7/2019
Title: Laboratory Director

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 6010D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BJ91905	Laboratory ID:	BJ91905-BS1
Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL

COMPOUND	SPIKE ADDED (ug/mL)	LCS CONCENTRATION (ug/mL)	LCS % REC. #	QC LIMITS REC.
Silver	0.0500	0.0527	105	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Batch: BJ91905 Batch Matrix: Water Preparation: EPA 3015A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 1019	19J1295-01	BICP2_110519ARE_1-0	10/31/19 12:02	
KC-MW-02 1019	19J1295-02	BICP2_110519ARE_1-0	10/31/19 12:02	
KC-MW-05 1019	19J1295-03	BICP2_110519ARE_1-0	10/31/19 12:02	
KC-MW-DUP 1019	19J1295-04	BICP2_110519ARE_1-0	10/31/19 12:02	
Blank	BJ91905-BLK1	BICP2_110519ARE_1-0	10/31/19 12:02	
LCS	BJ91905-BS1	BICP2_110519ARE_1-0	10/31/19 12:02	

FORM I **BLANKS**

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: AvioICP Project: 41103.00 KINGSTON CVS

Sequence: Y9K0602 Calibration: 11/05/19 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y9K0602-ICB1	Silver	-0.000232	0.00500	ug/mL		EPA 6010D
Y9K0602-CCB1	Silver	0.000490	0.00500	ug/mL		EPA 6010D
BJ91905-BLK1	Silver	0.000335	0.00556	mg/L		EPA 6010D
Y9K0602-CCB2	Silver	0.000548	0.00500	ug/mL		EPA 6010D

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Sequence:	Y9K0602	Instrument:	AvioICP
		Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	Y9K0602-ICV1	QBICP2_110519ARE_1-001	11/05/19 13:52
Initial Cal Blank	Y9K0602-ICB1	QBICP2_110519ARE_1-002	11/05/19 13:57
Instrument RL Check	Y9K0602-CRL1	QBICP2_110519ARE_1-003	11/05/19 14:02
Interference Check A	Y9K0602-IFA1	QBICP2_110519ARE_1-005	11/05/19 14:14
Interference Check B	Y9K0602-IFB1	QBICP2_110519ARE_1-006	11/05/19 14:20
Calibration Check	Y9K0602-CCV1	QBICP2_110519ARE_1-007	11/05/19 14:27
Calibration Blank	Y9K0602-CCB1	QBICP2_110519ARE_1-008	11/05/19 14:31
Blank	BJ91905-BLK1	QBICP2_110519ARE_1-009	11/05/19 14:37
LCS	BJ91905-BS1	QBICP2_110519ARE_1-010	11/05/19 14:43
KC-MW-01 1019	19J1295-01	QBICP2_110519ARE_1-011	11/05/19 14:48
KC-MW-02 1019	19J1295-02	QBICP2_110519ARE_1-012	11/05/19 14:55
KC-MW-05 1019	19J1295-03	QBICP2_110519ARE_1-013	11/05/19 15:03
KC-MW-DUP 1019	19J1295-04	QBICP2_110519ARE_1-014	11/05/19 15:10
Calibration Check	Y9K0602-CCV2	QBICP2_110519ARE_1-019	11/05/19 15:44
Calibration Blank	Y9K0602-CCB2	QBICP2_110519ARE_1-020	11/05/19 15:49

HOLDING TIME SUMMARY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
KC-MW-01 1019	10/29/19 17:45	10/30/19 15:23	10/31/19 12:02	1.76	180.00	11/05/19 14:48	6.88	180.00	
KC-MW-02 1019	10/29/19 15:19	10/30/19 15:23	10/31/19 12:02	1.86	180.00	11/05/19 14:55	6.98	180.00	
KC-MW-05 1019	10/29/19 14:31	10/30/19 15:23	10/31/19 12:02	1.90	180.00	11/05/19 15:03	7.02	180.00	
KC-MW-DUP 1019	10/29/19 00:00	10/30/19 15:23	10/31/19 12:02	2.50	180.00	11/05/19 15:10	7.63	180.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19J1295

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Matrix: Water **Instrument:** AvioICP

Analyte	LOD	LOQ	Units
Silver	0.00500	0.00500	mg/L

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-01 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-01 File ID: QBICP2_110519ARE_1-011

Sampled: 10/29/19 17:45 Prepared: 10/31/19 12:02 Analyzed: 11/05/19 14:48

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BJ91905 Sequence: Y9K0602 Calibration: 11/05/19 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-22-4	Silver	0.00556	1	U	EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-02 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-02 File ID: QBICP2_110519ARE_1-012

Sampled: 10/29/19 15:19 Prepared: 10/31/19 12:02 Analyzed: 11/05/19 14:55

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BJ91905 Sequence: Y9K0602 Calibration: 11/05/19 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-22-4	Silver	0.00556	1	U	EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-05 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-03 File ID: QBICP2_110519ARE_1-013

Sampled: 10/29/19 14:31 Prepared: 10/31/19 12:02 Analyzed: 11/05/19 15:03

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BJ91905 Sequence: Y9K0602 Calibration: 11/05/19 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-22-4	Silver	0.00556	1	U	EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-DUP 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-04 File ID: QBICP2_110519ARE_1-014

Sampled: 10/29/19 00:00 Prepared: 10/31/19 12:02 Analyzed: 11/05/19 15:10

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BJ91905 Sequence: Y9K0602 Calibration: 11/05/19 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-22-4	Silver	0.00556	1	U	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: AvioICP
Calibration: 11/05/19
Control Limt: +/- 10.00%
Sequence: Y9K0602

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y9K0602-ICV1	Silver	1.25	1.21	96.8	ug/mL	EPA 6010D
Y9K0602-CCV1	Silver	1.25	1.22	97.6	ug/mL	EPA 6010D
Y9K0602-CCV2	Silver	1.25	1.20	95.9	ug/mL	EPA 6010D

* Values outside of QC limits

CRDL STANDARD

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: AvioICP
Calibration: 11/05/19
Sequence: Y9K0602

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
Y9K0602-CRL1	Silver	0.0100	0.00953	95.3	ug/mL	70 - 130

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: AvioICP
Calibration: 11/05/19
Sequence: Y9K0602

Lab Sample ID	Analyte	True	Found	%R	Units
Y9K0602-IFA1	Silver		0.00		ug/mL
Y9K0602-IFB1	Silver	1.00	1.09	109	ug/mL

* Values outside of QC limits

Metals Linear Dynamic Range

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument: AvioICP

CAS NO.	Analyte	Concentration mg/L
7440-22-4	Silver	62.5

IEC File Last Saved: 11/6/2019 9:32:37 AM
Printed On: 11/6/2019 9:32:50 AM

Results Data Set Name: QBICP2_052319A
Method Name: TAL AVIO500 051519
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

Interfering Analytes

	Analytes	Al RADIAL	Ca RADIAL	Fe RADIAL	Mg RADIAL
1	Ag 338.289	0.000000	0.012438	-0.045000	0.000000
2	Al 308.215	945.972216	0.056058	0.005000	0.088306
3	Al RADIAL	n/a	-0.073294	0.005000	0.044750
4	As 188.979	0.014664	-0.011100	-0.425000	0.000000
5	Ba 233.527	0.000000	0.000000	0.015000	0.000000
7	Ca 227.546	-0.147057	0.000000	-49.412352	-0.049113
8	Ca RADIAL	0.000000	n/a	0.000000	0.150914
9	Cd 226.502	0.000000	0.000000	0.115000	0.000000
10	Co 228.616	0.000000	0.000000	0.040000	0.000000
11	Cr 267.716	0.000000	0.000000	-0.030000	0.000000
12	Cu 324.752	0.000000	0.000000	-0.120000	0.000000
13	Fe 273.955	0.000000	0.000000	986.919071	0.000000
15	K RADIAL	-0.105552	-0.153662	-0.323336	0.000000
16	Mg 279.077	0.000000	0.073972	-1.648573	0.000000
17	Mg RADIAL	0.000000	0.000000	0.120011	n/a
18	Mn 257.610	0.000000	0.000000	-0.010000	0.000000
19	Na 330.237	0.000000	-1.022358	2.555642	0.000000
20	Na RADIAL	0.319636	0.226960	0.515802	0.266014
21	Ni 231.604	0.000000	0.000000	-0.035000	0.000000
22	Pb 220.353	-0.164003	0.000000	0.375000	0.000000
23	Sb 206.836	0.000000	0.000000	-0.040000	0.000000
24	Se 196.026	0.066081	0.029540	0.630000	0.000000
25	Tl 190.801	0.000000	0.000000	-0.050000	0.000000
26	V 292.402	0.000000	0.000000	-0.030000	0.000000
27	Y 371.029	-1687202151941936250	-1836679440331713740	-4310799127145958604	-1716027675198901125
28	Y RADIAL	-1687202151941936250	-1836679440331713740	-4310799127145958604	-1716027675198901125
29	Zn 206.200	0.000000	0.000000	0.065000	0.000000

BENCHSHEETS

SDG: 19J1295

CLASS: METALS

METHOD: EPA 6010D

PREPARATION BENCH SHEET-AQUEOUS: BJ91905

Prepared: **10/31/2019 12:02**

York Analytical Laboratories, Inc.

Printed: 11/7/2019 12:46:12PM

Matrix: Water **Preparation EPA 3015A** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
19J1295-01 D	Silver by EPA 601(	45	50							NA			
19J1295-02 D	Silver by EPA 601(	45	50							NA			
19J1295-03 D	Silver by EPA 601(	45	50							NA			
19J1295-04 D	Silver by EPA 601(	45	50							NA			
19J1309-01 H	Metals, Target Ana	45	50							NA			
19J1309-02 H	Metals, Target Ana	45	50							NA			
19J1309-03 H	Silver by EPA 601(	45	50							NA			Added for BatchQC in: BJ91905
19J1309-03 H	Calcium by EPA 6(	45	50							NA			Added for BatchQC in: BJ91905
19J1309-03 H	Magnesium by EPA	45	50							NA			Added for BatchQC in: BJ91905
19J1309-03 H	Metals, RCRA	45	50							NA			Added for BatchQC in: BJ91905
19J1309-03 H	Metals, Target Ana	45	50							NA			
19J1310-01 H	Magnesium by EPA	45	50							NA			
19J1310-01 H	Calcium by EPA 6(	45	50							NA			
19J1310-02 H	Calcium by EPA 6(	45	50							NA			
19J1310-02 H	Magnesium by EPA	45	50							NA			
19J1310-03 H	Calcium by EPA 6(	45	50							NA			
19J1310-03 H	Magnesium by EPA	45	50							NA			
19J1323-02 C	Metals, RCRA	45	50							NA			
BJ91905-BLK1	QC	45	50							NA			
BJ91905-BS1	QC	45	50	Y19J305	1					NA			
BJ91905-DUP1	QC	45	50					19J1309-03		NA			
BJ91905-MS1	QC	45	50	Y19J304	500			19J1309-03		NA			
BJ91905-PS1	QC	10	10	Y19H202	100			19J1309-03		NA			[Spk] 50mL->50mL; 50mL->50mL;

Reagents:

ID Number	Description	Lot Number
Y19I180	Hydrochloric Acid , ACS Grade 37%	0000229506

ID Number	Description	Lot Number
Y19J129	Nitric Acid , ACS Grade 69-70%	0000220208

Preparation Performed by SY **Date:** 10/31/2019 12:02

Sample Information Detail Report
Document Name: QBICP2110519A

File Description
TAL Metals

Parameters Common to All Samples

Batch ID	QBICP2110519A
Analyst Name	KML
Volume Units	mL
Weight Units	g
Remarks	AVIO 500 ICP DV
Remarks	AVIO 500 ICP DV

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Remarks
1	3	SEQ-ICV1	
2	1	SEQ-ICB1	
3	5	SEQ-CRL1	
4	6	SEQ-CRL2	
5	7	SEQ-IFA1	
6	8	SEQ-IFB1	
7	9	SEQ-CCV1	
8	4	SEQ-CCB1	
9	101	BJ91905-BLK1	
10	102	BJ91905-BS1	
11	103	19J1295-01	
12	104	19J1295-02	
13	105	19J1295-03	
14	106	19J1295-04	
15	107	19J1309-01	
16	108	19J1309-02	
17	109	19J1309-03	
18	110	19J1310-01	
19	9	SEQ-CCV2	
20	4	SEQ-CCB2	
21	111	19J1310-02	
22	112	19J1310-03	
23	113	BJ91905-DUP1	
24	114	BJ91905-MS1	
25	115	BJ911905-PS1	
26	116	19J1323-02	
27	117	SEQ-SRD1	19J1310-03
28	118	BK90102-BLK1	
29	119	BK90102-BS1	
30	120	19J1384-01	
31	9	SEQ-CCV3	
32	4	SEQ-CCB3	
33	121	19J1391-01	
34	122	19J1392-01	
35	123	19J1393-01	
36	124	19K0020-01	
37	125	19K0020-02	
38	126	19K0025-01	
39	127	19K0030-01	
40	128	19K0033-01	
41	129	19K0034-01	
42	130	19K0040-01	
43	9	SEQ-CCV4	
44	4	SEQ-CCB4	
45	131	19K0040-02	
46	132	19K0040-03	
47	133	19K0040-04	
48	134	19K0040-05	
49	135	19K0040-06	

50	136	19K0040-07	
51	137	19K0040-08	
52	138	BK90102-DUP1	
53	139	BK90102-MS1	
54	140	BK90102-PS1	
55	9	SEQ-CCV5	
56	4	SEQ-CCB5	
57	141	SEQ0-SRD2	19K0040-08
58	142	BK90039-BLK1	
59	143	BJ90039-BS1	
60	144	19J1290-01	
61	145	19J1293-01	
62	146	19J1293-02	
63	147	19J1293-03	
64	148	BK80039-DUP1	
65	149	BK90039-MS1	
66	150	BK90039-PS1	
67	9	SEQ-CCV6	
68	4	SEQ-CCB6	
69	151	SEQ-SRD3	19J1293-03
70	152	BJ91919-BLK1	
71	153	BJ91919-BS1	
72	154	19J1295-01	
73	155	19J1295-04	
74	156	19J1310-01	
75	157	19J1310-02	
76	158	19J1310-03	
77	159	BJ91919-DUP1	
78	160	BJ91919-MS1	
79	9	SEQ-CCV7	
80	4	SEQ-CCB7	
81	201	BJ91919-PS1	
82	202	SEQ-SRD4	19J1310-03
83	10	SEQ-CCV8	
84	1	SEQ-CCB8	
85	5	SEQ-CRL3	
86	6	SEQ-CRL4	
87	7	SEQ-IFA2	
88	8	SEQ-IFB2	
89	401	SEQ-HCV1	
90	1	BLANK1	
91	1	BLANK2	
92	10	SEQ-CCV9	
93	1	SEQ-CCB9	

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 3 Autosampler Location: 3
Sample ID: SEQ-ICV1 Date Collected: 11/5/2019 1:52:14 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:17 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-ICV1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	633639.1	0.9842	mg/L	0.00400				0.41%
Y RADIAL	27804.0	1.0316	mg/L	0.00513				0.50%
As 188.979†	1203.4	0.2474	mg/L	0.00106	0.2474	mg/L	0.00106	0.43%
Tl 190.801†	3071.4	0.2616	mg/L	0.00144	0.2616	mg/L	0.00144	0.55%
Se 196.026†	966.6	0.2492	mg/L	0.00300	0.2492	mg/L	0.00300	1.21%
Zn 206.200†	438639.9	2.4957	mg/L	0.00536	2.4957	mg/L	0.00536	0.21%
Sb 206.836†	2337.5	0.2500	mg/L	0.00187	0.2500	mg/L	0.00187	0.75%
Pb 220.353†	3761.6	0.2493	mg/L	0.00162	0.2493	mg/L	0.00162	0.65%
Cd 226.502†	41993.4	0.1211	mg/L	0.00030	0.1211	mg/L	0.00030	0.25%
Co 228.616†	268513.7	2.4808	mg/L	0.00385	2.4808	mg/L	0.00385	0.16%
Ni 231.604†	187175.7	2.5038	mg/L	0.00663	2.5038	mg/L	0.00663	0.26%
Ba 233.527†	2097100.6	10.150	mg/L	0.0190	10.150	mg/L	0.0190	0.19%
Mn 257.610†	3363175.1	2.4869	mg/L	0.00443	2.4869	mg/L	0.00443	0.18%
Cr 267.716†	258729.5	1.0017	mg/L	0.00177	1.0017	mg/L	0.00177	0.18%
Fe 273.955†	249214.6	0.0527	mg/L	0.05913	0.0527	mg/L	0.05913	112.28%
Mg 279.077†	439659.7	24.633	mg/L	0.0433	24.633	mg/L	0.0433	0.18%
V 292.402†	717569.0	2.4710	mg/L	0.00473	2.4710	mg/L	0.00473	0.19%
Al 308.215†	231167.2	0.0869	mg/L	0.10003	0.0869	mg/L	0.10003	115.12%
Be 313.107†	1354793.5	0.25193	mg/L	0.000454	0.25193	mg/L	0.000454	0.18%
Cu 324.752†	319023.5	1.2452	mg/L	0.00253	1.2452	mg/L	0.00253	0.20%
Ag 338.289†	207445.6	1.2101	mg/L	0.00232	1.2101	mg/L	0.00232	0.19%
Na 330.237†	27892.8	23.470	mg/L	0.1124	23.470	mg/L	0.1124	0.48%
Ca 227.546†	14011.0	24.000	mg/L	0.0940	24.000	mg/L	0.0940	0.39%
Al RADIAL†	61426.5	9.9069	mg/L	0.08197	9.9069	mg/L	0.08197	0.83%
Fe RADIAL†	4407.0	4.9922	mg/L	0.05626	4.9922	mg/L	0.05626	1.13%
Ca RADIAL†	318620.3	24.831	mg/L	0.2065	24.831	mg/L	0.2065	0.83%
K RADIAL†	7045.8	4.9301	mg/L	0.04585	4.9301	mg/L	0.04585	0.93%
Mg RADIAL†	16955.2	24.646	mg/L	0.0359	24.646	mg/L	0.0359	0.15%
Na RADIAL†	64676.5	24.417	mg/L	0.2139	24.417	mg/L	0.2139	0.88%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 4 Autosampler Location: 1
Sample ID: SEQ-ICB1 Date Collected: 11/5/2019 1:57:02 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:18 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-ICB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	648244.2	1.0068	mg/L	0.00350				0.35%
Y RADIAL	27525.6	1.0213	mg/L	0.00163				0.16%
As 188.979†	-3.9	-0.0008	mg/L	0.00126	-0.0008	mg/L	0.00126	159.61%
Tl 190.801†	17.5	0.0015	mg/L	0.00073	0.0015	mg/L	0.00073	48.98%
Se 196.026†	-1.8	-0.0005	mg/L	0.00382	-0.0005	mg/L	0.00382	796.10%
Zn 206.200†	82.4	0.0005	mg/L	0.00017	0.0005	mg/L	0.00017	36.09%
Sb 206.836†	-18.2	-0.0019	mg/L	0.00060	-0.0019	mg/L	0.00060	30.61%
Pb 220.353†	-3.4	-0.0002	mg/L	0.00088	-0.0002	mg/L	0.00088	368.74%
Cd 226.502†	19.1	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	62.72%
Co 228.616†	167.1	0.0015	mg/L	0.00018	0.0015	mg/L	0.00018	11.47%
Ni 231.604†	105.4	0.0014	mg/L	0.00033	0.0014	mg/L	0.00033	23.09%
Ba 233.527†	103.3	0.0005	mg/L	0.00011	0.0005	mg/L	0.00011	21.37%
Mn 257.610†	110.0	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	17.16%
Cr 267.716†	3.4	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	754.85%
Fe 273.955†	-42.8	0.0006	mg/L	0.01312	0.0006	mg/L	0.01312	>999.9%
Mg 279.077†	-101.6	-0.0057	mg/L	0.00259	-0.0057	mg/L	0.00259	45.40%
V 292.402†	15.4	0.0001	mg/L	0.00012	0.0001	mg/L	0.00012	227.21%
Al 308.215†	-1683.3	-0.0040	mg/L	0.01283	-0.0040	mg/L	0.01283	322.59%
Be 313.107†	208.9	0.00004	mg/L	0.000022	0.00004	mg/L	0.000022	57.69%
Cu 324.752†	4452.1	0.0174	mg/L	0.00096	0.0174	mg/L	0.00096	5.50%
Ag 338.289†	-39.8	-0.0002	mg/L	0.00031	-0.0002	mg/L	0.00031	135.12%
Na 330.237†	58.1	0.0489	mg/L	0.14033	0.0489	mg/L	0.14033	287.04%
Ca 227.546†	23.1	0.0390	mg/L	0.04437	0.0390	mg/L	0.04437	113.63%
Al RADIAL†	-425.5	-0.0686	mg/L	0.00872	-0.0686	mg/L	0.00872	12.70%
Fe RADIAL†	-1.3	-0.0014	mg/L	0.01363	-0.0014	mg/L	0.01363	948.29%
Ca RADIAL†	13.9	0.0011	mg/L	0.00319	0.0011	mg/L	0.00319	295.19%
K RADIAL†	32.6	0.0228	mg/L	0.00932	0.0228	mg/L	0.00932	40.95%
Mg RADIAL†	1.0	0.0014	mg/L	0.02344	0.0014	mg/L	0.02344	>999.9%
Na RADIAL†	18.6	0.0070	mg/L	0.00395	0.0070	mg/L	0.00395	56.14%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 5 Autosampler Location: 5
Sample ID: SEQ-CRL1 Date Collected: 11/5/2019 2:02:49 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:18 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-CRL1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	650243.6	1.0100	mg/L	0.00644				0.64%
Y RADIAL	27024.4	1.0027	mg/L	0.00417				0.42%
As 188.979†	63.0	0.0130	mg/L	0.00459	0.0130	mg/L	0.00459	35.15%
Tl 190.801†	285.5	0.0243	mg/L	0.00074	0.0243	mg/L	0.00074	3.06%
Se 196.026†	69.7	0.0179	mg/L	0.00325	0.0179	mg/L	0.00325	18.10%
Zn 206.200†	5597.1	0.0318	mg/L	0.00031	0.0318	mg/L	0.00031	0.96%
Sb 206.836†	225.4	0.0241	mg/L	0.00218	0.0241	mg/L	0.00218	9.02%
Pb 220.353†	93.6	0.0061	mg/L	0.00127	0.0061	mg/L	0.00127	20.91%
Cd 226.502†	1065.6	0.0030	mg/L	0.00006	0.0030	mg/L	0.00006	2.05%
Co 228.616†	525.6	0.0048	mg/L	0.00015	0.0048	mg/L	0.00015	3.04%
Ni 231.604†	809.2	0.0108	mg/L	0.00016	0.0108	mg/L	0.00016	1.49%
Ba 233.527†	5591.9	0.0271	mg/L	0.00008	0.0271	mg/L	0.00008	0.29%
Mn 257.610†	14289.5	0.0106	mg/L	0.00003	0.0106	mg/L	0.00003	0.25%
Cr 267.716†	1351.9	0.0052	mg/L	0.00010	0.0052	mg/L	0.00010	1.92%
Fe 273.955†	23797.2	0.0064	mg/L	0.00803	0.0064	mg/L	0.00803	126.19%
Mg 279.077†	8446.0	0.4738	mg/L	0.00201	0.4738	mg/L	0.00201	0.42%
V 292.402†	2840.7	0.0098	mg/L	0.00011	0.0098	mg/L	0.00011	1.15%
Al 308.215†	7120.4	-0.0413	mg/L	0.01594	-0.0413	mg/L	0.01594	38.56%
Be 313.107†	2859.6	0.00053	mg/L	0.000015	0.00053	mg/L	0.000015	2.83%
Cu 324.752†	14208.9	0.0555	mg/L	0.00029	0.0555	mg/L	0.00029	0.53%
Ag 338.289†	1631.3	0.0095	mg/L	0.00146	0.0095	mg/L	0.00146	15.32%
Na 330.237†	445.5	0.3742	mg/L	0.15876	0.3742	mg/L	0.15876	42.42%
Ca 227.546†	456.1	0.7967	mg/L	0.01860	0.7967	mg/L	0.01860	2.33%
Al RADIAL†	2180.7	0.3517	mg/L	0.00957	0.3517	mg/L	0.00957	2.72%
Fe RADIAL†	419.6	0.4753	mg/L	0.00685	0.4753	mg/L	0.00685	1.44%
Ca RADIAL†	9656.8	0.7526	mg/L	0.00298	0.7526	mg/L	0.00298	0.40%
K RADIAL†	610.1	0.4266	mg/L	0.02543	0.4266	mg/L	0.02543	5.96%
Mg RADIAL†	324.1	0.4711	mg/L	0.02068	0.4711	mg/L	0.02068	4.39%
Na RADIAL†	1194.3	0.4506	mg/L	0.00250	0.4506	mg/L	0.00250	0.55%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 7 Autosampler Location: 7
Sample ID: SEQ-IFA1 Date Collected: 11/5/2019 2:14:22 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:19 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-IFA1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	547187.6	0.8499	mg/L	0.00569				0.67%
Y RADIAL	26116.5	0.9690	mg/L	0.00586				0.60%
As 188.979†	-356.0	-0.0001	mg/L	0.01337	-0.0001	mg/L	0.01337	>999.9%
Tl 190.801†	-106.6	-0.0003	mg/L	0.00147	-0.0003	mg/L	0.00147	534.38%
Se 196.026†	608.0	0.0007	mg/L	0.01466	0.0007	mg/L	0.01466	>999.9%
Zn 206.200†	1931.4	-0.0004	mg/L	0.00086	-0.0004	mg/L	0.00086	191.88%
Sb 206.836†	-59.5	0.0007	mg/L	0.01145	0.0007	mg/L	0.01145	>999.9%
Pb 220.353†	-280.5	0.0002	mg/L	0.00371	0.0002	mg/L	0.00371	>999.9%
Cd 226.502†	7161.9	0.0005	mg/L	0.00021	0.0005	mg/L	0.00021	40.86%
Co 228.616†	686.0	-0.0007	mg/L	0.00063	-0.0007	mg/L	0.00063	90.07%
Ni 231.604†	-417.2	0.0006	mg/L	0.00058	0.0006	mg/L	0.00058	101.23%
Ba 233.527†	1313.1	0.0037	mg/L	0.00086	0.0037	mg/L	0.00086	23.12%
Mn 257.610†	-2642.5	-0.0002	mg/L	0.00008	-0.0002	mg/L	0.00008	38.80%
Cr 267.716†	-1580.2	-0.0008	mg/L	0.00038	-0.0008	mg/L	0.00038	45.28%
Fe 273.955†	8492862.2	-3.9412	mg/L	1.75081	-3.9412	mg/L	1.75081	44.42%
Mg 279.077†	8454262.9	473.80	mg/L	3.659	473.80	mg/L	3.659	0.77%
V 292.402†	-1414.5	0.0004	mg/L	0.00029	0.0004	mg/L	0.00029	70.53%
Al 308.215†	13009484.5	43.315	mg/L	7.0152	43.315	mg/L	7.0152	16.20%
Be 313.107†	-744.0	-0.00014	mg/L	0.000024	-0.00014	mg/L	0.000024	17.71%
Cu 324.752†	-5627.8	-0.0008	mg/L	0.00036	-0.0008	mg/L	0.00036	43.23%
Ag 338.289†	-450.0	-0.0006	mg/L	0.00066	-0.0006	mg/L	0.00066	118.40%
Na 330.237†	-3067.5	-2.5488	mg/L	0.20874	-2.5488	mg/L	0.20874	8.19%
Ca 227.546†	354193.6	609.19	mg/L	4.006	609.19	mg/L	4.006	0.66%
Al RADIAL†	3205916.4	517.03	mg/L	5.555	517.03	mg/L	5.555	1.07%
Fe RADIAL†	155315.5	175.94	mg/L	0.702	175.94	mg/L	0.702	0.40%
Ca RADIAL†	6029827.1	469.92	mg/L	5.014	469.92	mg/L	5.014	1.07%
K RADIAL†	-99.3	0.1143	mg/L	0.04653	0.1143	mg/L	0.04653	40.71%
Mg RADIAL†	332171.9	482.83	mg/L	5.124	482.83	mg/L	5.124	1.06%
Na RADIAL†	149.4	-0.4347	mg/L	0.02755	-0.4347	mg/L	0.02755	6.34%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 8 Autosampler Location: 8
Sample ID: SEQ-IFB1 Date Collected: 11/5/2019 2:20:45 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:19 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-IFB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	547372.7	0.8502	mg/L	0.00441				0.52%
Y RADIAL	25988.1	0.9642	mg/L	0.00158				0.16%
As 188.979†	2086.2	0.4981	mg/L	0.01334	0.4981	mg/L	0.01334	2.68%
Tl 190.801†	5125.3	0.4451	mg/L	0.00980	0.4451	mg/L	0.00980	2.20%
Se 196.026†	2529.9	0.5050	mg/L	0.01953	0.5050	mg/L	0.01953	3.87%
Zn 206.200†	159064.4	0.8936	mg/L	0.00419	0.8936	mg/L	0.00419	0.47%
Sb 206.836†	4709.9	0.5104	mg/L	0.00996	0.5104	mg/L	0.00996	1.95%
Pb 220.353†	13191.5	0.8920	mg/L	0.00726	0.8920	mg/L	0.00726	0.81%
Cd 226.502†	326086.8	0.9241	mg/L	0.00342	0.9241	mg/L	0.00342	0.37%
Co 228.616†	49332.6	0.4487	mg/L	0.00383	0.4487	mg/L	0.00383	0.85%
Ni 231.604†	64318.1	0.8665	mg/L	0.00687	0.8665	mg/L	0.00687	0.79%
Ba 233.527†	106667.8	0.5136	mg/L	0.00179	0.5136	mg/L	0.00179	0.35%
Mn 257.610†	670912.5	0.4979	mg/L	0.00202	0.4979	mg/L	0.00202	0.41%
Cr 267.716†	123180.7	0.4822	mg/L	0.00204	0.4822	mg/L	0.00204	0.42%
Fe 273.955†	8417143.0	-6.8192	mg/L	2.26237	-6.8192	mg/L	2.26237	33.18%
Mg 279.077†	8380284.6	469.66	mg/L	2.574	469.66	mg/L	2.574	0.55%
V 292.402†	138417.6	0.4819	mg/L	0.00246	0.4819	mg/L	0.00246	0.51%
Al 308.215†	12886711.0	46.695	mg/L	6.4127	46.695	mg/L	6.4127	13.73%
Be 313.107†	2664009.4	0.49538	mg/L	0.001709	0.49538	mg/L	0.001709	0.34%
Cu 324.752†	130651.1	0.5310	mg/L	0.00289	0.5310	mg/L	0.00289	0.54%
Ag 338.289†	187233.4	1.0944	mg/L	0.00416	1.0944	mg/L	0.00416	0.38%
Na 330.237†	110.8	0.1200	mg/L	0.21246	0.1200	mg/L	0.21246	177.07%
Ca 227.546†	347081.0	597.20	mg/L	2.243	597.20	mg/L	2.243	0.38%
Al RADIAL†	3150824.7	508.14	mg/L	4.970	508.14	mg/L	4.970	0.98%
Fe RADIAL†	156536.6	177.32	mg/L	1.666	177.32	mg/L	1.666	0.94%
Ca RADIAL†	6023210.5	469.40	mg/L	4.412	469.40	mg/L	4.412	0.94%
K RADIAL†	-157.2	0.0733	mg/L	0.05178	0.0733	mg/L	0.05178	70.66%
Mg RADIAL†	331788.8	482.27	mg/L	4.651	482.27	mg/L	4.651	0.96%
Na RADIAL†	129.2	-0.4399	mg/L	0.01368	-0.4399	mg/L	0.01368	3.11%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 9 Autosampler Location: 9
Sample ID: SEQ-CCV1 Date Collected: 11/5/2019 2:27:11 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:20 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-CCV1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	626026.4	0.9723	mg/L	0.00325				0.33%
Y RADIAL	27193.9	1.0090	mg/L	0.00952				0.94%
As 188.979†	2403.6	0.4919	mg/L	0.00401	0.4919	mg/L	0.00401	0.81%
Tl 190.801†	5898.8	0.5023	mg/L	0.00408	0.5023	mg/L	0.00408	0.81%
Se 196.026†	1860.5	0.4839	mg/L	0.00590	0.4839	mg/L	0.00590	1.22%
Zn 206.200†	437604.7	2.4898	mg/L	0.00311	2.4898	mg/L	0.00311	0.13%
Sb 206.836†	2335.5	0.2498	mg/L	0.00157	0.2498	mg/L	0.00157	0.63%
Pb 220.353†	7642.5	0.5067	mg/L	0.00192	0.5067	mg/L	0.00192	0.38%
Cd 226.502†	86316.4	0.2494	mg/L	0.00055	0.2494	mg/L	0.00055	0.22%
Co 228.616†	268046.3	2.4765	mg/L	0.00240	2.4765	mg/L	0.00240	0.10%
Ni 231.604†	186681.2	2.4971	mg/L	0.00273	2.4971	mg/L	0.00273	0.11%
Ba 233.527†	2089152.3	10.111	mg/L	0.0113	10.111	mg/L	0.0113	0.11%
Mn 257.610†	3373693.8	2.4947	mg/L	0.00264	2.4947	mg/L	0.00264	0.11%
Cr 267.716†	255294.0	0.9884	mg/L	0.00035	0.9884	mg/L	0.00035	0.03%
Fe 273.955†	248949.4	0.0367	mg/L	0.04994	0.0367	mg/L	0.04994	136.01%
Mg 279.077†	442849.6	24.811	mg/L	0.0154	24.811	mg/L	0.0154	0.06%
V 292.402†	716616.1	2.4677	mg/L	0.00138	2.4677	mg/L	0.00138	0.06%
Al 308.215†	226761.9	0.3661	mg/L	0.13103	0.3661	mg/L	0.13103	35.79%
Be 313.107†	1322744.6	0.24597	mg/L	0.000123	0.24597	mg/L	0.000123	0.05%
Cu 324.752†	317077.7	1.2376	mg/L	0.00243	1.2376	mg/L	0.00243	0.20%
Ag 338.289†	209168.8	1.2201	mg/L	0.00172	1.2201	mg/L	0.00172	0.14%
Na 330.237†	27946.0	23.515	mg/L	0.1108	23.515	mg/L	0.1108	0.47%
Ca 227.546†	14230.3	24.372	mg/L	0.1093	24.372	mg/L	0.1093	0.45%
Al RADIAL†	58414.4	9.4211	mg/L	0.13304	9.4211	mg/L	0.13304	1.41%
Fe RADIAL†	4416.5	5.0030	mg/L	0.05089	5.0030	mg/L	0.05089	1.02%
Ca RADIAL†	320381.2	24.968	mg/L	0.3409	24.968	mg/L	0.3409	1.37%
K RADIAL†	6437.1	4.5047	mg/L	0.03979	4.5047	mg/L	0.03979	0.88%
Mg RADIAL†	17184.7	24.979	mg/L	0.2474	24.979	mg/L	0.2474	0.99%
Na RADIAL†	62513.6	23.600	mg/L	0.3363	23.600	mg/L	0.3363	1.42%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 10 Autosampler Location: 4
Sample ID: SEQ-CCB1 Date Collected: 11/5/2019 2:31:57 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:20 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-CCB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	643647.4	0.9997	mg/L	0.00570				0.57%
Y RADIAL	26675.8	0.9898	mg/L	0.00380				0.38%
As 188.979†	-0.9	-0.0002	mg/L	0.00456	-0.0002	mg/L	0.00456	>999.9%
Tl 190.801†	-11.0	-0.0009	mg/L	0.00157	-0.0009	mg/L	0.00157	167.54%
Se 196.026†	-11.5	-0.0030	mg/L	0.00208	-0.0030	mg/L	0.00208	69.17%
Zn 206.200†	231.7	0.0013	mg/L	0.00016	0.0013	mg/L	0.00016	12.33%
Sb 206.836†	26.4	0.0028	mg/L	0.00163	0.0028	mg/L	0.00163	57.79%
Pb 220.353†	34.5	0.0023	mg/L	0.00082	0.0023	mg/L	0.00082	36.18%
Cd 226.502†	-6.7	-0.0000	mg/L	0.00009	-0.0000	mg/L	0.00009	461.07%
Co 228.616†	239.0	0.0022	mg/L	0.00014	0.0022	mg/L	0.00014	6.19%
Ni 231.604†	216.5	0.0029	mg/L	0.00033	0.0029	mg/L	0.00033	11.55%
Ba 233.527†	64.0	0.0003	mg/L	0.00016	0.0003	mg/L	0.00016	52.42%
Mn 257.610†	68.9	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	11.28%
Cr 267.716†	2.6	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	>999.9%
Fe 273.955†	368.1	0.0096	mg/L	0.01109	0.0096	mg/L	0.01109	115.65%
Mg 279.077†	5500.0	0.3081	mg/L	0.00588	0.3081	mg/L	0.00588	1.91%
V 292.402†	33.1	0.0001	mg/L	0.00014	0.0001	mg/L	0.00014	126.47%
Al 308.215†	-2528.8	0.0405	mg/L	0.00624	0.0405	mg/L	0.00624	15.42%
Be 313.107†	60.0	0.00001	mg/L	0.000022	0.00001	mg/L	0.000022	195.17%
Cu 324.752†	3566.3	0.0139	mg/L	0.00083	0.0139	mg/L	0.00083	5.95%
Ag 338.289†	84.4	0.0005	mg/L	0.00059	0.0005	mg/L	0.00059	121.15%
Na 330.237†	45.0	0.0380	mg/L	0.06068	0.0380	mg/L	0.06068	159.57%
Ca 227.546†	82.7	0.1401	mg/L	0.04736	0.1401	mg/L	0.04736	33.80%
Al RADIAL†	-944.0	-0.1522	mg/L	0.00605	-0.1522	mg/L	0.00605	3.98%
Fe RADIAL†	-2.0	-0.0023	mg/L	0.01180	-0.0023	mg/L	0.01180	521.37%
Ca RADIAL†	2327.2	0.1813	mg/L	0.00180	0.1813	mg/L	0.00180	0.99%
K RADIAL†	-0.5	-0.0003	mg/L	0.01419	-0.0003	mg/L	0.01419	>999.9%
Mg RADIAL†	214.6	0.3119	mg/L	0.01341	0.3119	mg/L	0.01341	4.30%
Na RADIAL†	-93.8	-0.0355	mg/L	0.00544	-0.0355	mg/L	0.00544	15.31%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 11 Autosampler Location: 101
Sample ID: BJ91905-BLK1 Date Collected: 11/5/2019 2:37:44 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:20 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: BJ91905-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	648524.5	1.0073	mg/L	0.00661				0.66%
Y RADIAL	27022.7	1.0026	mg/L	0.00271				0.27%
As 188.979†	-14.0	-0.0028	mg/L	0.00308	-0.0028	mg/L	0.00308	108.25%
Tl 190.801†	10.1	0.0009	mg/L	0.00172	0.0009	mg/L	0.00172	199.83%
Se 196.026†	-8.0	-0.0021	mg/L	0.00365	-0.0021	mg/L	0.00365	174.73%
Zn 206.200†	-725.4	-0.0041	mg/L	0.00011	-0.0041	mg/L	0.00011	2.68%
Sb 206.836†	0.9	0.0001	mg/L	0.00233	0.0001	mg/L	0.00233	>999.9%
Pb 220.353†	19.2	0.0012	mg/L	0.00155	0.0012	mg/L	0.00155	126.42%
Cd 226.502†	12.8	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	267.84%
Co 228.616†	265.0	0.0024	mg/L	0.00014	0.0024	mg/L	0.00014	5.62%
Ni 231.604†	155.0	0.0021	mg/L	0.00007	0.0021	mg/L	0.00007	3.29%
Ba 233.527†	87.4	0.0004	mg/L	0.00005	0.0004	mg/L	0.00005	12.81%
Mn 257.610†	174.2	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	9.62%
Cr 267.716†	51.7	0.0002	mg/L	0.00014	0.0002	mg/L	0.00014	70.95%
Fe 273.955†	347.4	0.0078	mg/L	0.00620	0.0078	mg/L	0.00620	79.75%
Mg 279.077†	4385.0	0.2456	mg/L	0.00174	0.2456	mg/L	0.00174	0.71%
V 292.402†	-22.6	-0.0001	mg/L	0.00014	-0.0001	mg/L	0.00014	185.72%
Al 308.215†	-6378.8	0.0217	mg/L	0.01895	0.0217	mg/L	0.01895	87.36%
Be 313.107†	154.0	0.00003	mg/L	0.000006	0.00003	mg/L	0.000006	22.10%
Cu 324.752†	22316.9	0.0871	mg/L	0.00395	0.0871	mg/L	0.00395	4.53%
Ag 338.289†	51.8	0.0003	mg/L	0.00034	0.0003	mg/L	0.00034	113.89%
Na 330.237†	119.1	0.1003	mg/L	0.07638	0.1003	mg/L	0.07638	76.19%
Ca 227.546†	13.3	0.0225	mg/L	0.01544	0.0225	mg/L	0.01544	68.72%
Al RADIAL†	-1853.7	-0.2990	mg/L	0.01187	-0.2990	mg/L	0.01187	3.97%
Fe RADIAL†	-0.8	-0.0009	mg/L	0.00599	-0.0009	mg/L	0.00599	703.87%
Ca RADIAL†	789.0	0.0615	mg/L	0.00230	0.0615	mg/L	0.00230	3.74%
K RADIAL†	34.3	0.0239	mg/L	0.02593	0.0239	mg/L	0.02593	108.33%
Mg RADIAL†	178.2	0.2590	mg/L	0.02017	0.2590	mg/L	0.02017	7.79%
Na RADIAL†	245.7	0.0928	mg/L	0.01452	0.0928	mg/L	0.01452	15.64%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 12 Autosampler Location: 102
Sample ID: BJ91905-BS1 Date Collected: 11/5/2019 2:43:30 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:21 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: BJ91905-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	644036.1	1.0003	mg/L	0.00465				0.46%
Y RADIAL	27383.5	1.0160	mg/L	0.00339				0.33%
As 188.979†	9316.1	1.8981	mg/L	0.00694	1.8981	mg/L	0.00694	0.37%
Tl 190.801†	23224.0	1.9766	mg/L	0.00510	1.9766	mg/L	0.00510	0.26%
Se 196.026†	6922.9	1.8166	mg/L	0.00895	1.8166	mg/L	0.00895	0.49%
Zn 206.200†	85713.6	0.4877	mg/L	0.00137	0.4877	mg/L	0.00137	0.28%
Sb 206.836†	2293.7	0.2452	mg/L	0.00204	0.2452	mg/L	0.00204	0.83%
Pb 220.353†	7751.8	0.5142	mg/L	0.00245	0.5142	mg/L	0.00245	0.48%
Cd 226.502†	17279.9	0.0499	mg/L	0.00008	0.0499	mg/L	0.00008	0.16%
Co 228.616†	56478.5	0.5218	mg/L	0.00112	0.5218	mg/L	0.00112	0.21%
Ni 231.604†	39321.9	0.5260	mg/L	0.00118	0.5260	mg/L	0.00118	0.22%
Ba 233.527†	438174.9	2.1208	mg/L	0.00321	2.1208	mg/L	0.00321	0.15%
Mn 257.610†	702353.2	0.5194	mg/L	0.00087	0.5194	mg/L	0.00087	0.17%
Cr 267.716†	52999.7	0.2052	mg/L	0.00073	0.2052	mg/L	0.00073	0.36%
Fe 273.955†	52057.0	0.0158	mg/L	0.00663	0.0158	mg/L	0.00663	41.93%
Mg 279.077†	21779.8	1.2216	mg/L	0.00386	1.2216	mg/L	0.00386	0.32%
V 292.402†	147639.6	0.5084	mg/L	0.00132	0.5084	mg/L	0.00132	0.26%
Al 308.215†	43290.0	0.0098	mg/L	0.02645	0.0098	mg/L	0.02645	269.64%
Be 313.107†	265204.8	0.04932	mg/L	0.000095	0.04932	mg/L	0.000095	0.19%
Cu 324.752†	85031.8	0.3319	mg/L	0.00152	0.3319	mg/L	0.00152	0.46%
Ag 338.289†	9022.3	0.0527	mg/L	0.00025	0.0527	mg/L	0.00025	0.48%
Na 330.237†	2380.6	2.0005	mg/L	0.01306	2.0005	mg/L	0.01306	0.65%
Ca 227.546†	341.6	0.6307	mg/L	0.04580	0.6307	mg/L	0.04580	7.26%
Al RADIAL†	11548.8	1.8625	mg/L	0.01541	1.8625	mg/L	0.01541	0.83%
Fe RADIAL†	916.3	1.0379	mg/L	0.00677	1.0379	mg/L	0.00677	0.65%
Ca RADIAL†	13877.7	1.0815	mg/L	0.00501	1.0815	mg/L	0.00501	0.46%
K RADIAL†	1220.8	0.8538	mg/L	0.04228	0.8538	mg/L	0.04228	4.95%
Mg RADIAL†	843.8	1.2265	mg/L	0.01351	1.2265	mg/L	0.01351	1.10%
Na RADIAL†	2639.5	0.9955	mg/L	0.01809	0.9955	mg/L	0.01809	1.82%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 13 Autosampler Location: 103
Sample ID: 19J1295-01 Date Collected: 11/5/2019 2:48:47 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:21 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: 19J1295-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	692792.4	1.0760	mg/L	0.00776				0.72%
Y RADIAL	32265.0	1.1971	mg/L	0.00906				0.76%
As 188.979†	53.2	0.0345	mg/L	0.00169	0.0345	mg/L	0.00169	4.89%
Tl 190.801†	-192.5	-0.0140	mg/L	0.00226	-0.0140	mg/L	0.00226	16.13%
Se 196.026†	204.3	0.0122	mg/L	0.00130	0.0122	mg/L	0.00130	10.61%
Zn 206.200†	26812.5	0.1495	mg/L	0.00158	0.1495	mg/L	0.00158	1.06%
Sb 206.836†	-12.8	0.0005	mg/L	0.00091	0.0005	mg/L	0.00091	167.22%
Pb 220.353†	869.3	0.0433	mg/L	0.00198	0.0433	mg/L	0.00198	4.57%
Cd 226.502†	4737.5	0.0082	mg/L	0.00009	0.0082	mg/L	0.00009	1.10%
Co 228.616†	10960.2	0.0994	mg/L	0.00091	0.0994	mg/L	0.00091	0.92%
Ni 231.604†	21949.2	0.2953	mg/L	0.00178	0.2953	mg/L	0.00178	0.60%
Ba 233.527†	45750.4	0.2207	mg/L	0.00151	0.2207	mg/L	0.00151	0.68%
Mn 257.610†	9645659.8	7.1328	mg/L	0.03150	7.1328	mg/L	0.03150	0.44%
Cr 267.716†	8674.1	0.0350	mg/L	0.00025	0.0350	mg/L	0.00025	0.70%
Fe 273.955†	2310401.2	-0.9740	mg/L	0.17366	-0.9740	mg/L	0.17366	17.83%
Mg 279.077†	1336291.6	74.903	mg/L	0.4196	74.903	mg/L	0.4196	0.56%
V 292.402†	9698.8	0.0348	mg/L	0.00029	0.0348	mg/L	0.00029	0.83%
Al 308.215†	584064.2	3.2087	mg/L	0.13602	3.2087	mg/L	0.13602	4.24%
Be 313.107†	6535.3	0.00122	mg/L	0.000024	0.00122	mg/L	0.000024	1.97%
Cu 324.752†	34397.9	0.1399	mg/L	0.00143	0.1399	mg/L	0.00143	1.02%
Ag 338.289†	100.3	-0.0014	mg/L	0.00013	-0.0014	mg/L	0.00013	9.20%
Na 330.237†	222299.9	187.17	mg/L	1.194	187.17	mg/L	1.194	0.64%
Ca 227.546†	229049.2	390.63	mg/L	2.522	390.63	mg/L	2.522	0.65%
Al RADIAL†	135496.8	21.872	mg/L	0.2066	21.872	mg/L	0.2066	0.94%
Fe RADIAL†	42164.3	47.763	mg/L	0.3740	47.763	mg/L	0.3740	0.78%
Ca RADIAL†	4283746.6	333.88	mg/L	1.203	333.88	mg/L	1.203	0.36%
K RADIAL†	12262.3	8.6379	mg/L	0.08219	8.6379	mg/L	0.08219	0.95%
Mg RADIAL†	52544.7	76.374	mg/L	0.5840	76.374	mg/L	0.5840	0.76%
Na RADIAL†	517567.6	195.41	mg/L	0.681	195.41	mg/L	0.681	0.35%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 14 Autosampler Location: 104
Sample ID: 19J1295-02 Date Collected: 11/5/2019 2:55:42 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:22 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: 19J1295-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	594434.1	0.9233	mg/L	0.00619				0.67%
Y RADIAL	27069.1	1.0043	mg/L	0.00209				0.21%
As 188.979†	-34.1	-0.0051	mg/L	0.00384	-0.0051	mg/L	0.00384	75.36%
Tl 190.801†	-158.4	-0.0134	mg/L	0.00103	-0.0134	mg/L	0.00103	7.70%
Se 196.026†	40.8	0.0067	mg/L	0.00492	0.0067	mg/L	0.00492	73.58%
Zn 206.200†	2555.1	0.0144	mg/L	0.00046	0.0144	mg/L	0.00046	3.19%
Sb 206.836†	11.8	0.0013	mg/L	0.00339	0.0013	mg/L	0.00339	253.37%
Pb 220.353†	3.6	-0.0004	mg/L	0.00216	-0.0004	mg/L	0.00216	527.83%
Cd 226.502†	290.5	0.0006	mg/L	0.00008	0.0006	mg/L	0.00008	12.63%
Co 228.616†	426.4	0.0039	mg/L	0.00015	0.0039	mg/L	0.00015	3.82%
Ni 231.604†	2887.7	0.0387	mg/L	0.00056	0.0387	mg/L	0.00056	1.45%
Ba 233.527†	12672.3	0.0613	mg/L	0.00031	0.0613	mg/L	0.00031	0.50%
Mn 257.610†	6880364.1	5.0876	mg/L	0.02817	5.0876	mg/L	0.02817	0.55%
Cr 267.716†	1014.0	0.0040	mg/L	0.00018	0.0040	mg/L	0.00018	4.46%
Fe 273.955†	93816.0	-0.0000	mg/L	0.01921	-0.0000	mg/L	0.01921	>999.9%
Mg 279.077†	212461.0	11.897	mg/L	0.1226	11.897	mg/L	0.1226	1.03%
V 292.402†	-269.6	-0.0009	mg/L	0.00012	-0.0009	mg/L	0.00012	13.48%
Al 308.215†	14438.8	0.2299	mg/L	0.02993	0.2299	mg/L	0.02993	13.01%
Be 313.107†	-443.0	-0.00008	mg/L	0.000032	-0.00008	mg/L	0.000032	38.90%
Cu 324.752†	11077.6	0.0434	mg/L	0.00114	0.0434	mg/L	0.00114	2.62%
Ag 338.289†	129.8	-0.0003	mg/L	0.00042	-0.0003	mg/L	0.00042	123.42%
Na 330.237†	229909.8	193.44	mg/L	1.700	193.44	mg/L	1.700	0.88%
Ca 227.546†	60624.1	102.86	mg/L	1.089	102.86	mg/L	1.089	1.06%
Al RADIAL†	2324.6	0.3813	mg/L	0.01664	0.3813	mg/L	0.01664	4.36%
Fe RADIAL†	1676.8	1.8994	mg/L	0.01430	1.8994	mg/L	0.01430	0.75%
Ca RADIAL†	1216409.0	94.810	mg/L	0.8563	94.810	mg/L	0.8563	0.90%
K RADIAL†	12217.6	8.5528	mg/L	0.13236	8.5528	mg/L	0.13236	1.55%
Mg RADIAL†	8276.0	12.030	mg/L	0.0204	12.030	mg/L	0.0204	0.17%
Na RADIAL†	581595.3	219.71	mg/L	1.958	219.71	mg/L	1.958	0.89%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 15 Autosampler Location: 105
Sample ID: 19J1295-03 Date Collected: 11/5/2019 3:03:06 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:22 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: 19J1295-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	576723.5	0.8958	mg/L	0.00268				0.30%
Y RADIAL	27454.1	1.0186	mg/L	0.00518				0.51%
As 188.979†	-35.8	-0.0060	mg/L	0.00173	-0.0060	mg/L	0.00173	29.02%
Tl 190.801†	-59.2	-0.0050	mg/L	0.00172	-0.0050	mg/L	0.00172	34.10%
Se 196.026†	32.6	0.0051	mg/L	0.00352	0.0051	mg/L	0.00352	69.66%
Zn 206.200†	534.2	0.0030	mg/L	0.00027	0.0030	mg/L	0.00027	8.79%
Sb 206.836†	14.7	0.0016	mg/L	0.00153	0.0016	mg/L	0.00153	97.65%
Pb 220.353†	-20.6	-0.0014	mg/L	0.00146	-0.0014	mg/L	0.00146	102.98%
Cd 226.502†	-64.2	-0.0002	mg/L	0.00014	-0.0002	mg/L	0.00014	72.21%
Co 228.616†	223.4	0.0021	mg/L	0.00012	0.0021	mg/L	0.00012	6.05%
Ni 231.604†	242.3	0.0032	mg/L	0.00045	0.0032	mg/L	0.00045	13.92%
Ba 233.527†	10274.5	0.0497	mg/L	0.00023	0.0497	mg/L	0.00023	0.46%
Mn 257.610†	2730268.4	2.0189	mg/L	0.00827	2.0189	mg/L	0.00827	0.41%
Cr 267.716†	271.0	0.0011	mg/L	0.00007	0.0011	mg/L	0.00007	6.22%
Fe 273.955†	3347.4	0.0054	mg/L	0.01456	0.0054	mg/L	0.01456	272.07%
Mg 279.077†	322878.2	18.077	mg/L	0.0455	18.077	mg/L	0.0455	0.25%
V 292.402†	217.4	0.0008	mg/L	0.00014	0.0008	mg/L	0.00014	18.27%
Al 308.215†	1078.6	0.1915	mg/L	0.01047	0.1915	mg/L	0.01047	5.47%
Be 313.107†	-625.9	-0.00012	mg/L	0.000014	-0.00012	mg/L	0.000014	12.35%
Cu 324.752†	8117.0	0.0317	mg/L	0.00091	0.0317	mg/L	0.00091	2.87%
Ag 338.289†	379.5	0.0008	mg/L	0.00031	0.0008	mg/L	0.00031	40.87%
Na 330.237†	483377.4	406.63	mg/L	2.056	406.63	mg/L	2.056	0.51%
Ca 227.546†	77192.0	130.85	mg/L	0.206	130.85	mg/L	0.206	0.16%
Al RADIAL†	-1019.5	-0.1566	mg/L	0.00919	-0.1566	mg/L	0.00919	5.87%
Fe RADIAL†	55.0	0.0623	mg/L	0.01433	0.0623	mg/L	0.01433	22.98%
Ca RADIAL†	1511729.1	117.83	mg/L	0.527	117.83	mg/L	0.527	0.45%
K RADIAL†	11718.5	8.2069	mg/L	0.09492	8.2069	mg/L	0.09492	1.16%
Mg RADIAL†	12484.1	18.147	mg/L	0.0722	18.147	mg/L	0.0722	0.40%
Na RADIAL†	1092224.7	412.62	mg/L	1.493	412.62	mg/L	1.493	0.36%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 16 Autosampler Location: 106
Sample ID: 19J1295-04 Date Collected: 11/5/2019 3:10:37 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:22 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: 19J1295-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	1420883.8	2.2069	mg/L	0.00441				0.20%
Y RADIAL	73152.2	2.7142	mg/L	0.02199				0.81%
As 188.979†	207.9	0.2563	mg/L	0.00994	0.2563	mg/L	0.00994	3.88%
Tl 190.801†	-438.2	-0.0124	mg/L	0.00224	-0.0124	mg/L	0.00224	18.11%
Se 196.026†	1901.6	0.1435	mg/L	0.01195	0.1435	mg/L	0.01195	8.33%
Zn 206.200†	227870.2	1.2643	mg/L	0.00122	1.2643	mg/L	0.00122	0.10%
Sb 206.836†	-180.5	0.0006	mg/L	0.00504	0.0006	mg/L	0.00504	792.59%
Pb 220.353†	4031.2	0.1370	mg/L	0.00210	0.1370	mg/L	0.00210	1.53%
Cd 226.502†	52645.0	0.0952	mg/L	0.00046	0.0952	mg/L	0.00046	0.48%
Co 228.616†	29467.8	0.2524	mg/L	0.00158	0.2524	mg/L	0.00158	0.62%
Ni 231.604†	54860.4	0.7512	mg/L	0.00116	0.7512	mg/L	0.00116	0.15%
Ba 233.527†	331169.6	1.5954	mg/L	0.00148	1.5954	mg/L	0.00148	0.09%
Mn 257.610†	22278162.5	16.478	mg/L	0.0387	16.478	mg/L	0.0387	0.24%
Cr 267.716†	113700.5	0.4551	mg/L	0.00047	0.4551	mg/L	0.00047	0.10%
Fe 273.955†	17634354.1	-139.34	mg/L	1.427	-139.34	mg/L	1.427	1.02%
Mg 279.077†	2869624.9	161.51	mg/L	0.134	161.51	mg/L	0.134	0.08%
V 292.402†	113163.8	0.4046	mg/L	0.00213	0.4046	mg/L	0.00213	0.53%
Al 308.215†	8822693.8	35.920	mg/L	3.3402	35.920	mg/L	3.3402	9.30%
Be 313.107†	68261.7	0.01269	mg/L	0.000021	0.01269	mg/L	0.000021	0.16%
Cu 324.752†	148277.4	0.6383	mg/L	0.00078	0.6383	mg/L	0.00078	0.12%
Ag 338.289†	-2413.0	0.0003	mg/L	0.00032	0.0003	mg/L	0.00032	113.20%
Na 330.237†	118853.4	99.342	mg/L	0.1456	99.342	mg/L	0.1456	0.15%
Ca 227.546†	600782.2	1043.1	mg/L	0.94	1043.1	mg/L	0.94	0.09%
Al RADIAL†	2131217.3	343.74	mg/L	2.535	343.74	mg/L	2.535	0.74%
Fe RADIAL†	439813.8	498.21	mg/L	1.003	498.21	mg/L	1.003	0.20%
Ca RADIAL†	8312194.4	647.86	mg/L	4.872	647.86	mg/L	4.872	0.75%
K RADIAL†	66446.9	46.730	mg/L	0.2426	46.730	mg/L	0.2426	0.52%
Mg RADIAL†	126122.7	183.27	mg/L	0.630	183.27	mg/L	0.630	0.34%
Na RADIAL†	245598.9	92.227	mg/L	0.3105	92.227	mg/L	0.3105	0.34%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 21 Autosampler Location: 9
Sample ID: SEQ-CCV2 Date Collected: 11/5/2019 3:44:52 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:24 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-CCV2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	645891.9	1.0032	mg/L	0.00380				0.38%
Y RADIAL	28092.5	1.0423	mg/L	0.00437				0.42%
As 188.979†	2399.9	0.4911	mg/L	0.00206	0.4911	mg/L	0.00206	0.42%
Tl 190.801†	5764.4	0.4908	mg/L	0.00316	0.4908	mg/L	0.00316	0.64%
Se 196.026†	1812.2	0.4713	mg/L	0.00159	0.4713	mg/L	0.00159	0.34%
Zn 206.200†	426353.1	2.4258	mg/L	0.00854	2.4258	mg/L	0.00854	0.35%
Sb 206.836†	2273.0	0.2431	mg/L	0.00210	0.2431	mg/L	0.00210	0.86%
Pb 220.353†	7435.8	0.4931	mg/L	0.00204	0.4931	mg/L	0.00204	0.41%
Cd 226.502†	83966.2	0.2426	mg/L	0.00081	0.2426	mg/L	0.00081	0.34%
Co 228.616†	262504.3	2.4253	mg/L	0.00933	2.4253	mg/L	0.00933	0.38%
Ni 231.604†	182262.6	2.4380	mg/L	0.00668	2.4380	mg/L	0.00668	0.27%
Ba 233.527†	2050164.9	9.9228	mg/L	0.03373	9.9228	mg/L	0.03373	0.34%
Mn 257.610†	3317770.7	2.4533	mg/L	0.00816	2.4533	mg/L	0.00816	0.33%
Cr 267.716†	250955.2	0.9716	mg/L	0.00399	0.9716	mg/L	0.00399	0.41%
Fe 273.955†	243934.0	0.0472	mg/L	0.02341	0.0472	mg/L	0.02341	49.63%
Mg 279.077†	430957.1	24.145	mg/L	0.0899	24.145	mg/L	0.0899	0.37%
V 292.402†	703068.6	2.4211	mg/L	0.00822	2.4211	mg/L	0.00822	0.34%
Al 308.215†	225474.0	0.0811	mg/L	0.09112	0.0811	mg/L	0.09112	112.38%
Be 313.107†	1297617.9	0.24129	mg/L	0.000815	0.24129	mg/L	0.000815	0.34%
Cu 324.752†	309219.5	1.2069	mg/L	0.00258	1.2069	mg/L	0.00258	0.21%
Ag 338.289†	205564.4	1.1991	mg/L	0.00405	1.1991	mg/L	0.00405	0.34%
Na 330.237†	27298.2	22.969	mg/L	0.1547	22.969	mg/L	0.1547	0.67%
Ca 227.546†	14076.3	24.105	mg/L	0.1431	24.105	mg/L	0.1431	0.59%
Al RADIAL†	59937.7	9.6668	mg/L	0.08927	9.6668	mg/L	0.08927	0.92%
Fe RADIAL†	4317.6	4.8909	mg/L	0.01236	4.8909	mg/L	0.01236	0.25%
Ca RADIAL†	311852.8	24.304	mg/L	0.1897	24.304	mg/L	0.1897	0.78%
K RADIAL†	6763.2	4.7324	mg/L	0.04682	4.7324	mg/L	0.04682	0.99%
Mg RADIAL†	16576.9	24.096	mg/L	0.0648	24.096	mg/L	0.0648	0.27%
Na RADIAL†	61617.0	23.262	mg/L	0.2103	23.262	mg/L	0.2103	0.90%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 22 Autosampler Location: 4
Sample ID: SEQ-CCB2 Date Collected: 11/5/2019 3:49:38 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:25 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-CCB2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	664535.3	1.0322	mg/L	0.00454				0.44%
Y RADIAL	28289.2	1.0496	mg/L	0.00402				0.38%
As 188.979†	-6.1	-0.0012	mg/L	0.00106	-0.0012	mg/L	0.00106	85.47%
Tl 190.801†	11.3	0.0010	mg/L	0.00059	0.0010	mg/L	0.00059	61.49%
Se 196.026†	-1.8	-0.0005	mg/L	0.00374	-0.0005	mg/L	0.00374	771.93%
Zn 206.200†	802.7	0.0046	mg/L	0.00023	0.0046	mg/L	0.00023	5.02%
Sb 206.836†	-6.5	-0.0007	mg/L	0.00225	-0.0007	mg/L	0.00225	324.26%
Pb 220.353†	-13.2	-0.0009	mg/L	0.00108	-0.0009	mg/L	0.00108	121.34%
Cd 226.502†	24.1	0.0001	mg/L	0.00012	0.0001	mg/L	0.00012	177.88%
Co 228.616†	219.3	0.0020	mg/L	0.00016	0.0020	mg/L	0.00016	7.67%
Ni 231.604†	137.7	0.0018	mg/L	0.00019	0.0018	mg/L	0.00019	10.22%
Ba 233.527†	69.9	0.0003	mg/L	0.00004	0.0003	mg/L	0.00004	13.24%
Mn 257.610†	1461.8	0.0011	mg/L	0.00001	0.0011	mg/L	0.00001	1.14%
Cr 267.716†	8.7	0.0000	mg/L	0.00014	0.0000	mg/L	0.00014	402.05%
Fe 273.955†	754.6	0.0112	mg/L	0.00544	0.0112	mg/L	0.00544	48.64%
Mg 279.077†	2807.1	0.1572	mg/L	0.00084	0.1572	mg/L	0.00084	0.53%
V 292.402†	16.2	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	120.00%
Al 308.215†	-2254.5	-0.0018	mg/L	0.00752	-0.0018	mg/L	0.00752	427.53%
Be 313.107†	331.0	0.00006	mg/L	0.000020	0.00006	mg/L	0.000020	32.80%
Cu 324.752†	2297.1	0.0090	mg/L	0.00045	0.0090	mg/L	0.00045	4.98%
Ag 338.289†	94.2	0.0005	mg/L	0.00071	0.0005	mg/L	0.00071	128.96%
Na 330.237†	-217.9	-0.1831	mg/L	0.02102	-0.1831	mg/L	0.02102	11.48%
Ca 227.546†	137.7	0.2337	mg/L	0.06897	0.2337	mg/L	0.06897	29.52%
Al RADIAL†	-593.5	-0.0957	mg/L	0.00378	-0.0957	mg/L	0.00378	3.95%
Fe RADIAL†	3.5	0.0039	mg/L	0.00535	0.0039	mg/L	0.00535	135.89%
Ca RADIAL†	1913.9	0.1492	mg/L	0.00103	0.1492	mg/L	0.00103	0.69%
K RADIAL†	19.7	0.0138	mg/L	0.02072	0.0138	mg/L	0.02072	150.51%
Mg RADIAL†	106.8	0.1553	mg/L	0.00903	0.1553	mg/L	0.00903	5.81%
Na RADIAL†	92.3	0.0348	mg/L	0.00855	0.0348	mg/L	0.00855	24.57%

York Analytical Laboratories, Inc.
SDG: 19J1295
CLASS: METALS
METHOD: EPA 6010D

DATA PACKAGE COVER PAGE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Client Sample Id:	Lab Sample Id:
KC-MW-01 1019	19J1295-01
KC-MW-DUP 1019	19J1295-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:  Name: Benjamin Gulizia

Date: 11/7/2019 Title: Laboratory Director

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 6010D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.00 KINGSTON CVS
Matrix:	Water		
Batch:	BJ91919	Laboratory ID:	BJ91919-BS1
Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL

COMPOUND	SPIKE ADDED (ug/mL)	LCS CONCENTRATION (ug/mL)	LCS % REC. #	QC LIMITS REC.
Silver (dissolved)	0.0500	0.0483	96.6	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Batch: BJ91919 Batch Matrix: Water Preparation: EPA 3015A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 1019	19J1295-01	BICP2_110519ARE_1-0	10/31/19 15:20	
KC-MW-DUP 1019	19J1295-04	BICP2_110519ARE_1-0	10/31/19 15:20	
Blank	BJ91919-BLK1	BICP2_110519ARE_1-0	10/31/19 15:20	
LCS	BJ91919-BS1	BICP2_110519ARE_1-0	10/31/19 15:20	

FORM I **BLANKS**

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: AvioICP Project: 41103.00 KINGSTON CVS

Sequence: Y9K0605 Calibration: 11/05/19 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y9K0605-ICB1	Silver (dissolved)	-0.000232	0.00500	ug/mL		EPA 6010D
Y9K0605-CCB1	Silver (dissolved)	0.000490	0.00500	ug/mL		EPA 6010D
Y9K0605-CCB6	Silver (dissolved)	-0.0000151	0.00500	ug/mL		EPA 6010D
BJ91919-BLK1	Silver (dissolved)	0.000390	0.00556	mg/L		EPA 6010D
Y9K0605-CCB7	Silver (dissolved)	-0.0000637	0.00500	ug/mL		EPA 6010D

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Sequence: Y9K0605
Instrument: AvioICP
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	Y9K0605-ICV1	QBICP2_110519ARE_1-001	11/05/19 13:52
Initial Cal Blank	Y9K0605-ICB1	QBICP2_110519ARE_1-002	11/05/19 13:57
Instrument RL Check	Y9K0605-CRL1	QBICP2_110519ARE_1-003	11/05/19 14:02
Interference Check A	Y9K0605-IFA1	QBICP2_110519ARE_1-005	11/05/19 14:14
Interference Check B	Y9K0605-IFB1	QBICP2_110519ARE_1-006	11/05/19 14:20
Calibration Check	Y9K0605-CCV1	QBICP2_110519ARE_1-007	11/05/19 14:27
Calibration Blank	Y9K0605-CCB1	QBICP2_110519ARE_1-008	11/05/19 14:31
Calibration Check	Y9K0605-CCV6	QBICP2_110519ARE_1-067	11/05/19 20:48
Calibration Blank	Y9K0605-CCB6	QBICP2_110519ARE_1-068	11/05/19 20:52
Blank	BJ91919-BLK1	QBICP2_110519ARE_1-070	11/05/19 21:03
LCS	BJ91919-BS1	QBICP2_110519ARE_1-071	11/05/19 21:09
KC-MW-01 1019	19J1295-01	QBICP2_110519ARE_1-072	11/05/19 21:14
KC-MW-DUP 1019	19J1295-04	QBICP2_110519ARE_1-073	11/05/19 21:22
Calibration Check	Y9K0605-CCV7	QBICP2_110519ARE_1-079	11/05/19 22:02
Calibration Blank	Y9K0605-CCB7	QBICP2_110519ARE_1-080	11/05/19 22:07

HOLDING TIME SUMMARY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
KC-MW-01 1019	10/29/19 17:45	10/30/19 15:23	10/31/19 15:20	1.90	180.00	11/05/19 21:14	7.15	180.00	
KC-MW-DUP 1019	10/29/19 00:00	10/30/19 15:23	10/31/19 15:20	2.64	180.00	11/05/19 21:22	7.89	180.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19J1295

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Matrix: Water **Instrument:** AvioICP

Analyte	LOD	LOQ	Units
Silver (dissolved)	0.00500	0.00500	mg/L

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-01 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-01 File ID: QBICP2_110519ARE_1-072

Sampled: 10/29/19 17:45 Prepared: 10/31/19 15:20 Analyzed: 11/05/19 21:14

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BJ91919 Sequence: Y9K0605 Calibration: 11/05/19 2 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-22-4	Silver (dissolved)	0.00556	1	U	EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-DUP 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-04 File ID: QBICP2_110519ARE_1-073

Sampled: 10/29/19 00:00 Prepared: 10/31/19 15:20 Analyzed: 11/05/19 21:22

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BJ91919 Sequence: Y9K0605 Calibration: 11/05/19 2 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-22-4	Silver (dissolved)	0.00556	1	U	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: AvioICP
Calibration: 11/05/19
Control Limt: +/- 10.00%
Sequence: Y9K0605

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y9K0605-ICV1	Silver (dissolved)	1.25	1.21	96.8	ug/mL	EPA 6010D
Y9K0605-CCV1	Silver (dissolved)	1.25	1.22	97.6	ug/mL	EPA 6010D
Y9K0605-CCV6	Silver (dissolved)	1.25	1.19	95.5	ug/mL	EPA 6010D
Y9K0605-CCV7	Silver (dissolved)	1.25	1.20	96.1	ug/mL	EPA 6010D

* Values outside of QC limits

CRDL STANDARD

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: AvioICP
Calibration: 11/05/19
Sequence: Y9K0605

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
Y9K0605-CRL1	Silver (dissolved)	0.0100	0.00953	95.3	ug/mL	70 - 130

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: AvioICP
Calibration: 11/05/19
Sequence: Y9K0605

Lab Sample ID	Analyte	True	Found	%R	Units
Y9K0605-IFA1	Silver (dissolved)		0.00		ug/mL
Y9K0605-IFB1	Silver (dissolved)	1.00	1.09	109	ug/mL

* Values outside of QC limits

Metals Linear Dynamic Range

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument: AvioICP

CAS NO.	Analyte	Concentration mg/L
7440-22-4	Silver	62.5

IEC File Last Saved: 11/6/2019 9:32:37 AM
Printed On: 11/6/2019 9:32:50 AM

Results Data Set Name: QBICP2_052319A
Method Name: TAL AVIO500 051519
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

Interfering Analytes

	Analytes	Al RADIAL	Ca RADIAL	Fe RADIAL	Mg RADIAL
1	Ag 338.289	0.000000	0.012438	-0.045000	0.000000
2	Al 308.215	945.972216	0.056058	0.005000	0.088306
3	Al RADIAL	n/a	-0.073294	0.005000	0.044750
4	As 188.979	0.014664	-0.011100	-0.425000	0.000000
5	Ba 233.527	0.000000	0.000000	0.015000	0.000000
7	Ca 227.546	-0.147057	0.000000	-49.412352	-0.049113
8	Ca RADIAL	0.000000	n/a	0.000000	0.150914
9	Cd 226.502	0.000000	0.000000	0.115000	0.000000
10	Co 228.616	0.000000	0.000000	0.040000	0.000000
11	Cr 267.716	0.000000	0.000000	-0.030000	0.000000
12	Cu 324.752	0.000000	0.000000	-0.120000	0.000000
13	Fe 273.955	0.000000	0.000000	986.919071	0.000000
15	K RADIAL	-0.105552	-0.153662	-0.323336	0.000000
16	Mg 279.077	0.000000	0.073972	-1.648573	0.000000
17	Mg RADIAL	0.000000	0.000000	0.120011	n/a
18	Mn 257.610	0.000000	0.000000	-0.010000	0.000000
19	Na 330.237	0.000000	-1.022358	2.555642	0.000000
20	Na RADIAL	0.319636	0.226960	0.515802	0.266014
21	Ni 231.604	0.000000	0.000000	-0.035000	0.000000
22	Pb 220.353	-0.164003	0.000000	0.375000	0.000000
23	Sb 206.836	0.000000	0.000000	-0.040000	0.000000
24	Se 196.026	0.066081	0.029540	0.630000	0.000000
25	Tl 190.801	0.000000	0.000000	-0.050000	0.000000
26	V 292.402	0.000000	0.000000	-0.030000	0.000000
27	Y 371.029	-1687202151941936250	-1836679440331713740	-4310799127145958604	-1716027675198901125
28	Y RADIAL	-1687202151941936250	-1836679440331713740	-4310799127145958604	-1716027675198901125
29	Zn 206.200	0.000000	0.000000	0.065000	0.000000

BENCHSHEETS

SDG: 19J1295

CLASS: METALS

METHOD: EPA 6010D

PREPARATION BENCH SHEET-AQUEOUS: BJ91919

Prepared: **10/31/2019 15:20**

York Analytical Laboratories, Inc.

Printed: 11/7/2019 12:46:50PM

Matrix: Water **Preparation EPA 3015A** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
19J1295-01 E	Silver, Dissolved b	45	50							NA			
19J1295-04 E	Silver, Dissolved b	45	50							NA			
19J1310-01 F	Manganese, Dissol	45	50							NA			
19J1310-01 F	Iron, Dissolved by	45	50							NA			
19J1310-02 F	Manganese, Dissol	45	50							NA			
19J1310-02 F	Iron, Dissolved by	45	50							NA			
19J1310-03 F	Silver, Dissolved b	45	50							NA			Added for BatchQC in: BJ91919
19J1310-03 F	Manganese, Dissol	45	50							NA			
19J1310-03 F	Iron, Dissolved by	45	50							NA			
BJ91919-BLK1	QC	45	50							NA			
BJ91919-BS1	QC	45	50	Y19J305	1					NA			
BJ91919-DUP1	QC	45	50					19J1310-03		NA			
BJ91919-MS1	QC	45	50	Y19J304	500			19J1310-03		NA			
BJ91919-PS1	QC	10	10	Y19H202	100			19J1310-03		NA			[Spk] 50mL->50mL; 50mL->50mL

19J1030 Lab Filtered

Reagents:

ID Number	Description	Lot Number
Y19H427	Hydrogen Peroxide, ACS grade	1112X04
Y19J129	Nitric Acid , ACS Grade 69-70%	0000220208

ID Number	Description	Lot Number
Y19I180	Hydrochloric Acid , ACS Grade 37	0000229506

Preparation Performed by SY **Date:** 10/31/2019 15:20

Sample Information Detail Report
Document Name: QBICP2110519A

File Description
TAL Metals

Parameters Common to All Samples

Batch ID	QBICP2110519A
Analyst Name	KML
Volume Units	mL
Weight Units	g
Remarks	AVIO 500 ICP DV
Remarks	AVIO 500 ICP DV

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Remarks
1	3	SEQ-ICV1	
2	1	SEQ-ICB1	
3	5	SEQ-CRL1	
4	6	SEQ-CRL2	
5	7	SEQ-IFA1	
6	8	SEQ-IFB1	
7	9	SEQ-CCV1	
8	4	SEQ-CCB1	
9	101	BJ91905-BLK1	
10	102	BJ91905-BS1	
11	103	19J1295-01	
12	104	19J1295-02	
13	105	19J1295-03	
14	106	19J1295-04	
15	107	19J1309-01	
16	108	19J1309-02	
17	109	19J1309-03	
18	110	19J1310-01	
19	9	SEQ-CCV2	
20	4	SEQ-CCB2	
21	111	19J1310-02	
22	112	19J1310-03	
23	113	BJ91905-DUP1	
24	114	BJ91905-MS1	
25	115	BJ911905-PS1	
26	116	19J1323-02	
27	117	SEQ-SRD1	19J1310-03
28	118	BK90102-BLK1	
29	119	BK90102-BS1	
30	120	19J1384-01	
31	9	SEQ-CCV3	
32	4	SEQ-CCB3	
33	121	19J1391-01	
34	122	19J1392-01	
35	123	19J1393-01	
36	124	19K0020-01	
37	125	19K0020-02	
38	126	19K0025-01	
39	127	19K0030-01	
40	128	19K0033-01	
41	129	19K0034-01	
42	130	19K0040-01	
43	9	SEQ-CCV4	
44	4	SEQ-CCB4	
45	131	19K0040-02	
46	132	19K0040-03	
47	133	19K0040-04	
48	134	19K0040-05	
49	135	19K0040-06	

50	136	19K0040-07	
51	137	19K0040-08	
52	138	BK90102-DUP1	
53	139	BK90102-MS1	
54	140	BK90102-PS1	
55	9	SEQ-CCV5	
56	4	SEQ-CCB5	
57	141	SEQ0-SRD2	19K0040-08
58	142	BK90039-BLK1	
59	143	BJ90039-BS1	
60	144	19J1290-01	
61	145	19J1293-01	
62	146	19J1293-02	
63	147	19J1293-03	
64	148	BK80039-DUP1	
65	149	BK90039-MS1	
66	150	BK90039-PS1	
67	9	SEQ-CCV6	
68	4	SEQ-CCB6	
69	151	SEQ-SRD3	19J1293-03
70	152	BJ91919-BLK1	
71	153	BJ91919-BS1	
72	154	19J1295-01	
73	155	19J1295-04	
74	156	19J1310-01	
75	157	19J1310-02	
76	158	19J1310-03	
77	159	BJ91919-DUP1	
78	160	BJ91919-MS1	
79	9	SEQ-CCV7	
80	4	SEQ-CCB7	
81	201	BJ91919-PS1	
82	202	SEQ-SRD4	19J1310-03
83	10	SEQ-CCV8	
84	1	SEQ-CCB8	
85	5	SEQ-CRL3	
86	6	SEQ-CRL4	
87	7	SEQ-IFA2	
88	8	SEQ-IFB2	
89	401	SEQ-HCV1	
90	1	BLANK1	
91	1	BLANK2	
92	10	SEQ-CCV9	
93	1	SEQ-CCB9	

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 3 Autosampler Location: 3
Sample ID: SEQ-ICV1 Date Collected: 11/5/2019 1:52:14 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:17 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-ICV1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	633639.1	0.9842	mg/L	0.00400				0.41%
Y RADIAL	27804.0	1.0316	mg/L	0.00513				0.50%
As 188.979†	1203.4	0.2474	mg/L	0.00106	0.2474	mg/L	0.00106	0.43%
Tl 190.801†	3071.4	0.2616	mg/L	0.00144	0.2616	mg/L	0.00144	0.55%
Se 196.026†	966.6	0.2492	mg/L	0.00300	0.2492	mg/L	0.00300	1.21%
Zn 206.200†	438639.9	2.4957	mg/L	0.00536	2.4957	mg/L	0.00536	0.21%
Sb 206.836†	2337.5	0.2500	mg/L	0.00187	0.2500	mg/L	0.00187	0.75%
Pb 220.353†	3761.6	0.2493	mg/L	0.00162	0.2493	mg/L	0.00162	0.65%
Cd 226.502†	41993.4	0.1211	mg/L	0.00030	0.1211	mg/L	0.00030	0.25%
Co 228.616†	268513.7	2.4808	mg/L	0.00385	2.4808	mg/L	0.00385	0.16%
Ni 231.604†	187175.7	2.5038	mg/L	0.00663	2.5038	mg/L	0.00663	0.26%
Ba 233.527†	2097100.6	10.150	mg/L	0.0190	10.150	mg/L	0.0190	0.19%
Mn 257.610†	3363175.1	2.4869	mg/L	0.00443	2.4869	mg/L	0.00443	0.18%
Cr 267.716†	258729.5	1.0017	mg/L	0.00177	1.0017	mg/L	0.00177	0.18%
Fe 273.955†	249214.6	0.0527	mg/L	0.05913	0.0527	mg/L	0.05913	112.28%
Mg 279.077†	439659.7	24.633	mg/L	0.0433	24.633	mg/L	0.0433	0.18%
V 292.402†	717569.0	2.4710	mg/L	0.00473	2.4710	mg/L	0.00473	0.19%
Al 308.215†	231167.2	0.0869	mg/L	0.10003	0.0869	mg/L	0.10003	115.12%
Be 313.107†	1354793.5	0.25193	mg/L	0.000454	0.25193	mg/L	0.000454	0.18%
Cu 324.752†	319023.5	1.2452	mg/L	0.00253	1.2452	mg/L	0.00253	0.20%
Ag 338.289†	207445.6	1.2101	mg/L	0.00232	1.2101	mg/L	0.00232	0.19%
Na 330.237†	27892.8	23.470	mg/L	0.1124	23.470	mg/L	0.1124	0.48%
Ca 227.546†	14011.0	24.000	mg/L	0.0940	24.000	mg/L	0.0940	0.39%
Al RADIAL†	61426.5	9.9069	mg/L	0.08197	9.9069	mg/L	0.08197	0.83%
Fe RADIAL†	4407.0	4.9922	mg/L	0.05626	4.9922	mg/L	0.05626	1.13%
Ca RADIAL†	318620.3	24.831	mg/L	0.2065	24.831	mg/L	0.2065	0.83%
K RADIAL†	7045.8	4.9301	mg/L	0.04585	4.9301	mg/L	0.04585	0.93%
Mg RADIAL†	16955.2	24.646	mg/L	0.0359	24.646	mg/L	0.0359	0.15%
Na RADIAL†	64676.5	24.417	mg/L	0.2139	24.417	mg/L	0.2139	0.88%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 4 Autosampler Location: 1
Sample ID: SEQ-ICB1 Date Collected: 11/5/2019 1:57:02 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:18 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-ICB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	648244.2	1.0068	mg/L	0.00350				0.35%
Y RADIAL	27525.6	1.0213	mg/L	0.00163				0.16%
As 188.979†	-3.9	-0.0008	mg/L	0.00126	-0.0008	mg/L	0.00126	159.61%
Tl 190.801†	17.5	0.0015	mg/L	0.00073	0.0015	mg/L	0.00073	48.98%
Se 196.026†	-1.8	-0.0005	mg/L	0.00382	-0.0005	mg/L	0.00382	796.10%
Zn 206.200†	82.4	0.0005	mg/L	0.00017	0.0005	mg/L	0.00017	36.09%
Sb 206.836†	-18.2	-0.0019	mg/L	0.00060	-0.0019	mg/L	0.00060	30.61%
Pb 220.353†	-3.4	-0.0002	mg/L	0.00088	-0.0002	mg/L	0.00088	368.74%
Cd 226.502†	19.1	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	62.72%
Co 228.616†	167.1	0.0015	mg/L	0.00018	0.0015	mg/L	0.00018	11.47%
Ni 231.604†	105.4	0.0014	mg/L	0.00033	0.0014	mg/L	0.00033	23.09%
Ba 233.527†	103.3	0.0005	mg/L	0.00011	0.0005	mg/L	0.00011	21.37%
Mn 257.610†	110.0	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	17.16%
Cr 267.716†	3.4	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	754.85%
Fe 273.955†	-42.8	0.0006	mg/L	0.01312	0.0006	mg/L	0.01312	>999.9%
Mg 279.077†	-101.6	-0.0057	mg/L	0.00259	-0.0057	mg/L	0.00259	45.40%
V 292.402†	15.4	0.0001	mg/L	0.00012	0.0001	mg/L	0.00012	227.21%
Al 308.215†	-1683.3	-0.0040	mg/L	0.01283	-0.0040	mg/L	0.01283	322.59%
Be 313.107†	208.9	0.00004	mg/L	0.000022	0.00004	mg/L	0.000022	57.69%
Cu 324.752†	4452.1	0.0174	mg/L	0.00096	0.0174	mg/L	0.00096	5.50%
Ag 338.289†	-39.8	-0.0002	mg/L	0.00031	-0.0002	mg/L	0.00031	135.12%
Na 330.237†	58.1	0.0489	mg/L	0.14033	0.0489	mg/L	0.14033	287.04%
Ca 227.546†	23.1	0.0390	mg/L	0.04437	0.0390	mg/L	0.04437	113.63%
Al RADIAL†	-425.5	-0.0686	mg/L	0.00872	-0.0686	mg/L	0.00872	12.70%
Fe RADIAL†	-1.3	-0.0014	mg/L	0.01363	-0.0014	mg/L	0.01363	948.29%
Ca RADIAL†	13.9	0.0011	mg/L	0.00319	0.0011	mg/L	0.00319	295.19%
K RADIAL†	32.6	0.0228	mg/L	0.00932	0.0228	mg/L	0.00932	40.95%
Mg RADIAL†	1.0	0.0014	mg/L	0.02344	0.0014	mg/L	0.02344	>999.9%
Na RADIAL†	18.6	0.0070	mg/L	0.00395	0.0070	mg/L	0.00395	56.14%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 5 Autosampler Location: 5
Sample ID: SEQ-CRL1 Date Collected: 11/5/2019 2:02:49 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:18 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-CRL1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	650243.6	1.0100	mg/L	0.00644				0.64%
Y RADIAL	27024.4	1.0027	mg/L	0.00417				0.42%
As 188.979†	63.0	0.0130	mg/L	0.00459	0.0130	mg/L	0.00459	35.15%
Tl 190.801†	285.5	0.0243	mg/L	0.00074	0.0243	mg/L	0.00074	3.06%
Se 196.026†	69.7	0.0179	mg/L	0.00325	0.0179	mg/L	0.00325	18.10%
Zn 206.200†	5597.1	0.0318	mg/L	0.00031	0.0318	mg/L	0.00031	0.96%
Sb 206.836†	225.4	0.0241	mg/L	0.00218	0.0241	mg/L	0.00218	9.02%
Pb 220.353†	93.6	0.0061	mg/L	0.00127	0.0061	mg/L	0.00127	20.91%
Cd 226.502†	1065.6	0.0030	mg/L	0.00006	0.0030	mg/L	0.00006	2.05%
Co 228.616†	525.6	0.0048	mg/L	0.00015	0.0048	mg/L	0.00015	3.04%
Ni 231.604†	809.2	0.0108	mg/L	0.00016	0.0108	mg/L	0.00016	1.49%
Ba 233.527†	5591.9	0.0271	mg/L	0.00008	0.0271	mg/L	0.00008	0.29%
Mn 257.610†	14289.5	0.0106	mg/L	0.00003	0.0106	mg/L	0.00003	0.25%
Cr 267.716†	1351.9	0.0052	mg/L	0.00010	0.0052	mg/L	0.00010	1.92%
Fe 273.955†	23797.2	0.0064	mg/L	0.00803	0.0064	mg/L	0.00803	126.19%
Mg 279.077†	8446.0	0.4738	mg/L	0.00201	0.4738	mg/L	0.00201	0.42%
V 292.402†	2840.7	0.0098	mg/L	0.00011	0.0098	mg/L	0.00011	1.15%
Al 308.215†	7120.4	-0.0413	mg/L	0.01594	-0.0413	mg/L	0.01594	38.56%
Be 313.107†	2859.6	0.00053	mg/L	0.000015	0.00053	mg/L	0.000015	2.83%
Cu 324.752†	14208.9	0.0555	mg/L	0.00029	0.0555	mg/L	0.00029	0.53%
Ag 338.289†	1631.3	0.0095	mg/L	0.00146	0.0095	mg/L	0.00146	15.32%
Na 330.237†	445.5	0.3742	mg/L	0.15876	0.3742	mg/L	0.15876	42.42%
Ca 227.546†	456.1	0.7967	mg/L	0.01860	0.7967	mg/L	0.01860	2.33%
Al RADIAL†	2180.7	0.3517	mg/L	0.00957	0.3517	mg/L	0.00957	2.72%
Fe RADIAL†	419.6	0.4753	mg/L	0.00685	0.4753	mg/L	0.00685	1.44%
Ca RADIAL†	9656.8	0.7526	mg/L	0.00298	0.7526	mg/L	0.00298	0.40%
K RADIAL†	610.1	0.4266	mg/L	0.02543	0.4266	mg/L	0.02543	5.96%
Mg RADIAL†	324.1	0.4711	mg/L	0.02068	0.4711	mg/L	0.02068	4.39%
Na RADIAL†	1194.3	0.4506	mg/L	0.00250	0.4506	mg/L	0.00250	0.55%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 7 Autosampler Location: 7
Sample ID: SEQ-IFA1 Date Collected: 11/5/2019 2:14:22 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:19 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-IFA1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	547187.6	0.8499	mg/L	0.00569				0.67%
Y RADIAL	26116.5	0.9690	mg/L	0.00586				0.60%
As 188.979†	-356.0	-0.0001	mg/L	0.01337	-0.0001	mg/L	0.01337	>999.9%
Tl 190.801†	-106.6	-0.0003	mg/L	0.00147	-0.0003	mg/L	0.00147	534.38%
Se 196.026†	608.0	0.0007	mg/L	0.01466	0.0007	mg/L	0.01466	>999.9%
Zn 206.200†	1931.4	-0.0004	mg/L	0.00086	-0.0004	mg/L	0.00086	191.88%
Sb 206.836†	-59.5	0.0007	mg/L	0.01145	0.0007	mg/L	0.01145	>999.9%
Pb 220.353†	-280.5	0.0002	mg/L	0.00371	0.0002	mg/L	0.00371	>999.9%
Cd 226.502†	7161.9	0.0005	mg/L	0.00021	0.0005	mg/L	0.00021	40.86%
Co 228.616†	686.0	-0.0007	mg/L	0.00063	-0.0007	mg/L	0.00063	90.07%
Ni 231.604†	-417.2	0.0006	mg/L	0.00058	0.0006	mg/L	0.00058	101.23%
Ba 233.527†	1313.1	0.0037	mg/L	0.00086	0.0037	mg/L	0.00086	23.12%
Mn 257.610†	-2642.5	-0.0002	mg/L	0.00008	-0.0002	mg/L	0.00008	38.80%
Cr 267.716†	-1580.2	-0.0008	mg/L	0.00038	-0.0008	mg/L	0.00038	45.28%
Fe 273.955†	8492862.2	-3.9412	mg/L	1.75081	-3.9412	mg/L	1.75081	44.42%
Mg 279.077†	8454262.9	473.80	mg/L	3.659	473.80	mg/L	3.659	0.77%
V 292.402†	-1414.5	0.0004	mg/L	0.00029	0.0004	mg/L	0.00029	70.53%
Al 308.215†	13009484.5	43.315	mg/L	7.0152	43.315	mg/L	7.0152	16.20%
Be 313.107†	-744.0	-0.00014	mg/L	0.000024	-0.00014	mg/L	0.000024	17.71%
Cu 324.752†	-5627.8	-0.0008	mg/L	0.00036	-0.0008	mg/L	0.00036	43.23%
Ag 338.289†	-450.0	-0.0006	mg/L	0.00066	-0.0006	mg/L	0.00066	118.40%
Na 330.237†	-3067.5	-2.5488	mg/L	0.20874	-2.5488	mg/L	0.20874	8.19%
Ca 227.546†	354193.6	609.19	mg/L	4.006	609.19	mg/L	4.006	0.66%
Al RADIAL†	3205916.4	517.03	mg/L	5.555	517.03	mg/L	5.555	1.07%
Fe RADIAL†	155315.5	175.94	mg/L	0.702	175.94	mg/L	0.702	0.40%
Ca RADIAL†	6029827.1	469.92	mg/L	5.014	469.92	mg/L	5.014	1.07%
K RADIAL†	-99.3	0.1143	mg/L	0.04653	0.1143	mg/L	0.04653	40.71%
Mg RADIAL†	332171.9	482.83	mg/L	5.124	482.83	mg/L	5.124	1.06%
Na RADIAL†	149.4	-0.4347	mg/L	0.02755	-0.4347	mg/L	0.02755	6.34%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 8 Autosampler Location: 8
Sample ID: SEQ-IFB1 Date Collected: 11/5/2019 2:20:45 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:19 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-IFB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	547372.7	0.8502	mg/L	0.00441				0.52%
Y RADIAL	25988.1	0.9642	mg/L	0.00158				0.16%
As 188.979†	2086.2	0.4981	mg/L	0.01334	0.4981	mg/L	0.01334	2.68%
Tl 190.801†	5125.3	0.4451	mg/L	0.00980	0.4451	mg/L	0.00980	2.20%
Se 196.026†	2529.9	0.5050	mg/L	0.01953	0.5050	mg/L	0.01953	3.87%
Zn 206.200†	159064.4	0.8936	mg/L	0.00419	0.8936	mg/L	0.00419	0.47%
Sb 206.836†	4709.9	0.5104	mg/L	0.00996	0.5104	mg/L	0.00996	1.95%
Pb 220.353†	13191.5	0.8920	mg/L	0.00726	0.8920	mg/L	0.00726	0.81%
Cd 226.502†	326086.8	0.9241	mg/L	0.00342	0.9241	mg/L	0.00342	0.37%
Co 228.616†	49332.6	0.4487	mg/L	0.00383	0.4487	mg/L	0.00383	0.85%
Ni 231.604†	64318.1	0.8665	mg/L	0.00687	0.8665	mg/L	0.00687	0.79%
Ba 233.527†	106667.8	0.5136	mg/L	0.00179	0.5136	mg/L	0.00179	0.35%
Mn 257.610†	670912.5	0.4979	mg/L	0.00202	0.4979	mg/L	0.00202	0.41%
Cr 267.716†	123180.7	0.4822	mg/L	0.00204	0.4822	mg/L	0.00204	0.42%
Fe 273.955†	8417143.0	-6.8192	mg/L	2.26237	-6.8192	mg/L	2.26237	33.18%
Mg 279.077†	8380284.6	469.66	mg/L	2.574	469.66	mg/L	2.574	0.55%
V 292.402†	138417.6	0.4819	mg/L	0.00246	0.4819	mg/L	0.00246	0.51%
Al 308.215†	12886711.0	46.695	mg/L	6.4127	46.695	mg/L	6.4127	13.73%
Be 313.107†	2664009.4	0.49538	mg/L	0.001709	0.49538	mg/L	0.001709	0.34%
Cu 324.752†	130651.1	0.5310	mg/L	0.00289	0.5310	mg/L	0.00289	0.54%
Ag 338.289†	187233.4	1.0944	mg/L	0.00416	1.0944	mg/L	0.00416	0.38%
Na 330.237†	110.8	0.1200	mg/L	0.21246	0.1200	mg/L	0.21246	177.07%
Ca 227.546†	347081.0	597.20	mg/L	2.243	597.20	mg/L	2.243	0.38%
Al RADIAL†	3150824.7	508.14	mg/L	4.970	508.14	mg/L	4.970	0.98%
Fe RADIAL†	156536.6	177.32	mg/L	1.666	177.32	mg/L	1.666	0.94%
Ca RADIAL†	6023210.5	469.40	mg/L	4.412	469.40	mg/L	4.412	0.94%
K RADIAL†	-157.2	0.0733	mg/L	0.05178	0.0733	mg/L	0.05178	70.66%
Mg RADIAL†	331788.8	482.27	mg/L	4.651	482.27	mg/L	4.651	0.96%
Na RADIAL†	129.2	-0.4399	mg/L	0.01368	-0.4399	mg/L	0.01368	3.11%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 9 Autosampler Location: 9
Sample ID: SEQ-CCV1 Date Collected: 11/5/2019 2:27:11 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:20 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-CCV1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	626026.4	0.9723	mg/L	0.00325				0.33%
Y RADIAL	27193.9	1.0090	mg/L	0.00952				0.94%
As 188.979†	2403.6	0.4919	mg/L	0.00401	0.4919	mg/L	0.00401	0.81%
Tl 190.801†	5898.8	0.5023	mg/L	0.00408	0.5023	mg/L	0.00408	0.81%
Se 196.026†	1860.5	0.4839	mg/L	0.00590	0.4839	mg/L	0.00590	1.22%
Zn 206.200†	437604.7	2.4898	mg/L	0.00311	2.4898	mg/L	0.00311	0.13%
Sb 206.836†	2335.5	0.2498	mg/L	0.00157	0.2498	mg/L	0.00157	0.63%
Pb 220.353†	7642.5	0.5067	mg/L	0.00192	0.5067	mg/L	0.00192	0.38%
Cd 226.502†	86316.4	0.2494	mg/L	0.00055	0.2494	mg/L	0.00055	0.22%
Co 228.616†	268046.3	2.4765	mg/L	0.00240	2.4765	mg/L	0.00240	0.10%
Ni 231.604†	186681.2	2.4971	mg/L	0.00273	2.4971	mg/L	0.00273	0.11%
Ba 233.527†	2089152.3	10.111	mg/L	0.0113	10.111	mg/L	0.0113	0.11%
Mn 257.610†	3373693.8	2.4947	mg/L	0.00264	2.4947	mg/L	0.00264	0.11%
Cr 267.716†	255294.0	0.9884	mg/L	0.00035	0.9884	mg/L	0.00035	0.03%
Fe 273.955†	248949.4	0.0367	mg/L	0.04994	0.0367	mg/L	0.04994	136.01%
Mg 279.077†	442849.6	24.811	mg/L	0.0154	24.811	mg/L	0.0154	0.06%
V 292.402†	716616.1	2.4677	mg/L	0.00138	2.4677	mg/L	0.00138	0.06%
Al 308.215†	226761.9	0.3661	mg/L	0.13103	0.3661	mg/L	0.13103	35.79%
Be 313.107†	1322744.6	0.24597	mg/L	0.000123	0.24597	mg/L	0.000123	0.05%
Cu 324.752†	317077.7	1.2376	mg/L	0.00243	1.2376	mg/L	0.00243	0.20%
Ag 338.289†	209168.8	1.2201	mg/L	0.00172	1.2201	mg/L	0.00172	0.14%
Na 330.237†	27946.0	23.515	mg/L	0.1108	23.515	mg/L	0.1108	0.47%
Ca 227.546†	14230.3	24.372	mg/L	0.1093	24.372	mg/L	0.1093	0.45%
Al RADIAL†	58414.4	9.4211	mg/L	0.13304	9.4211	mg/L	0.13304	1.41%
Fe RADIAL†	4416.5	5.0030	mg/L	0.05089	5.0030	mg/L	0.05089	1.02%
Ca RADIAL†	320381.2	24.968	mg/L	0.3409	24.968	mg/L	0.3409	1.37%
K RADIAL†	6437.1	4.5047	mg/L	0.03979	4.5047	mg/L	0.03979	0.88%
Mg RADIAL†	17184.7	24.979	mg/L	0.2474	24.979	mg/L	0.2474	0.99%
Na RADIAL†	62513.6	23.600	mg/L	0.3363	23.600	mg/L	0.3363	1.42%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 10 Autosampler Location: 4
Sample ID: SEQ-CCB1 Date Collected: 11/5/2019 2:31:57 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:20 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-CCB1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	643647.4	0.9997	mg/L	0.00570				0.57%
Y RADIAL	26675.8	0.9898	mg/L	0.00380				0.38%
As 188.979†	-0.9	-0.0002	mg/L	0.00456	-0.0002	mg/L	0.00456	>999.9%
Tl 190.801†	-11.0	-0.0009	mg/L	0.00157	-0.0009	mg/L	0.00157	167.54%
Se 196.026†	-11.5	-0.0030	mg/L	0.00208	-0.0030	mg/L	0.00208	69.17%
Zn 206.200†	231.7	0.0013	mg/L	0.00016	0.0013	mg/L	0.00016	12.33%
Sb 206.836†	26.4	0.0028	mg/L	0.00163	0.0028	mg/L	0.00163	57.79%
Pb 220.353†	34.5	0.0023	mg/L	0.00082	0.0023	mg/L	0.00082	36.18%
Cd 226.502†	-6.7	-0.0000	mg/L	0.00009	-0.0000	mg/L	0.00009	461.07%
Co 228.616†	239.0	0.0022	mg/L	0.00014	0.0022	mg/L	0.00014	6.19%
Ni 231.604†	216.5	0.0029	mg/L	0.00033	0.0029	mg/L	0.00033	11.55%
Ba 233.527†	64.0	0.0003	mg/L	0.00016	0.0003	mg/L	0.00016	52.42%
Mn 257.610†	68.9	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	11.28%
Cr 267.716†	2.6	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	>999.9%
Fe 273.955†	368.1	0.0096	mg/L	0.01109	0.0096	mg/L	0.01109	115.65%
Mg 279.077†	5500.0	0.3081	mg/L	0.00588	0.3081	mg/L	0.00588	1.91%
V 292.402†	33.1	0.0001	mg/L	0.00014	0.0001	mg/L	0.00014	126.47%
Al 308.215†	-2528.8	0.0405	mg/L	0.00624	0.0405	mg/L	0.00624	15.42%
Be 313.107†	60.0	0.00001	mg/L	0.000022	0.00001	mg/L	0.000022	195.17%
Cu 324.752†	3566.3	0.0139	mg/L	0.00083	0.0139	mg/L	0.00083	5.95%
Ag 338.289†	84.4	0.0005	mg/L	0.00059	0.0005	mg/L	0.00059	121.15%
Na 330.237†	45.0	0.0380	mg/L	0.06068	0.0380	mg/L	0.06068	159.57%
Ca 227.546†	82.7	0.1401	mg/L	0.04736	0.1401	mg/L	0.04736	33.80%
Al RADIAL†	-944.0	-0.1522	mg/L	0.00605	-0.1522	mg/L	0.00605	3.98%
Fe RADIAL†	-2.0	-0.0023	mg/L	0.01180	-0.0023	mg/L	0.01180	521.37%
Ca RADIAL†	2327.2	0.1813	mg/L	0.00180	0.1813	mg/L	0.00180	0.99%
K RADIAL†	-0.5	-0.0003	mg/L	0.01419	-0.0003	mg/L	0.01419	>999.9%
Mg RADIAL†	214.6	0.3119	mg/L	0.01341	0.3119	mg/L	0.01341	4.30%
Na RADIAL†	-93.8	-0.0355	mg/L	0.00544	-0.0355	mg/L	0.00544	15.31%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 69 Autosampler Location: 9
Sample ID: SEQ-CCV6 Date Collected: 11/5/2019 8:48:03 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:45 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-CCV6

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	673463.4	1.0460	mg/L	0.00664				0.63%
Y RADIAL	29804.7	1.1058	mg/L	0.01398				1.26%
As 188.979†	2404.1	0.4919	mg/L	0.00506	0.4919	mg/L	0.00506	1.03%
Tl 190.801†	5815.5	0.4952	mg/L	0.00318	0.4952	mg/L	0.00318	0.64%
Se 196.026†	1865.6	0.4854	mg/L	0.00728	0.4854	mg/L	0.00728	1.50%
Zn 206.200†	429648.8	2.4445	mg/L	0.01324	2.4445	mg/L	0.01324	0.54%
Sb 206.836†	2288.5	0.2448	mg/L	0.00256	0.2448	mg/L	0.00256	1.05%
Pb 220.353†	7507.9	0.4978	mg/L	0.00241	0.4978	mg/L	0.00241	0.48%
Cd 226.502†	84421.8	0.2440	mg/L	0.00124	0.2440	mg/L	0.00124	0.51%
Co 228.616†	263373.4	2.4334	mg/L	0.01057	2.4334	mg/L	0.01057	0.43%
Ni 231.604†	183372.3	2.4529	mg/L	0.01085	2.4529	mg/L	0.01085	0.44%
Ba 233.527†	2039235.5	9.8699	mg/L	0.04911	9.8699	mg/L	0.04911	0.50%
Mn 257.610†	3294667.8	2.4363	mg/L	0.01162	2.4363	mg/L	0.01162	0.48%
Cr 267.716†	249585.1	0.9663	mg/L	0.00462	0.9663	mg/L	0.00462	0.48%
Fe 273.955†	242873.1	0.0955	mg/L	0.02760	0.0955	mg/L	0.02760	28.89%
Mg 279.077†	430112.9	24.098	mg/L	0.1234	24.098	mg/L	0.1234	0.51%
V 292.402†	701340.4	2.4151	mg/L	0.01048	2.4151	mg/L	0.01048	0.43%
Al 308.215†	220948.9	0.5981	mg/L	0.11992	0.5981	mg/L	0.11992	20.05%
Be 313.107†	1291223.6	0.24010	mg/L	0.001098	0.24010	mg/L	0.001098	0.46%
Cu 324.752†	303777.7	1.1857	mg/L	0.00692	1.1857	mg/L	0.00692	0.58%
Ag 338.289†	204579.0	1.1933	mg/L	0.00550	1.1933	mg/L	0.00550	0.46%
Na 330.237†	27128.9	22.827	mg/L	0.0863	22.827	mg/L	0.0863	0.38%
Ca 227.546†	13943.3	23.876	mg/L	0.0930	23.876	mg/L	0.0930	0.39%
Al RADIAL†	55335.1	8.9245	mg/L	0.15435	8.9245	mg/L	0.15435	1.73%
Fe RADIAL†	4255.3	4.8204	mg/L	0.05025	4.8204	mg/L	0.05025	1.04%
Ca RADIAL†	306569.2	23.892	mg/L	0.3791	23.892	mg/L	0.3791	1.59%
K RADIAL†	6101.7	4.2700	mg/L	0.01267	4.2700	mg/L	0.01267	0.30%
Mg RADIAL†	16387.0	23.820	mg/L	0.2125	23.820	mg/L	0.2125	0.89%
Na RADIAL†	60243.1	22.743	mg/L	0.3585	22.743	mg/L	0.3585	1.58%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 70 Autosampler Location: 4
Sample ID: SEQ-CCB6 Date Collected: 11/5/2019 8:52:50 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:45 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-CCB6

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	694949.2	1.0794	mg/L	0.00721				0.67%
Y RADIAL	29911.7	1.1098	mg/L	0.00533				0.48%
As 188.979†	13.4	0.0027	mg/L	0.00168	0.0027	mg/L	0.00168	61.40%
Tl 190.801†	18.9	0.0016	mg/L	0.00150	0.0016	mg/L	0.00150	92.82%
Se 196.026†	-3.3	-0.0009	mg/L	0.00339	-0.0009	mg/L	0.00339	394.49%
Zn 206.200†	863.2	0.0049	mg/L	0.00020	0.0049	mg/L	0.00020	4.16%
Sb 206.836†	-1.2	-0.0001	mg/L	0.00099	-0.0001	mg/L	0.00099	794.75%
Pb 220.353†	-12.4	-0.0009	mg/L	0.00062	-0.0009	mg/L	0.00062	72.61%
Cd 226.502†	81.5	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	40.50%
Co 228.616†	158.2	0.0015	mg/L	0.00006	0.0015	mg/L	0.00006	3.95%
Ni 231.604†	120.3	0.0016	mg/L	0.00031	0.0016	mg/L	0.00031	19.50%
Ba 233.527†	31.4	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	73.99%
Mn 257.610†	500.0	0.0004	mg/L	0.00001	0.0004	mg/L	0.00001	3.75%
Cr 267.716†	-21.8	-0.0001	mg/L	0.00015	-0.0001	mg/L	0.00015	181.91%
Fe 273.955†	84.3	0.0015	mg/L	0.00817	0.0015	mg/L	0.00817	542.11%
Mg 279.077†	324.7	0.0182	mg/L	0.00146	0.0182	mg/L	0.00146	8.03%
V 292.402†	52.8	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	59.41%
Al 308.215†	-4949.7	0.0337	mg/L	0.00817	0.0337	mg/L	0.00817	24.25%
Be 313.107†	623.4	0.00012	mg/L	0.000016	0.00012	mg/L	0.000016	14.12%
Cu 324.752†	1494.3	0.0058	mg/L	0.00034	0.0058	mg/L	0.00034	5.80%
Ag 338.289†	-2.4	-0.0000	mg/L	0.00084	-0.0000	mg/L	0.00084	>999.9%
Na 330.237†	-149.3	-0.1255	mg/L	0.05405	-0.1255	mg/L	0.05405	43.07%
Ca 227.546†	100.7	0.1707	mg/L	0.02502	0.1707	mg/L	0.02502	14.66%
Al RADIAL†	-1548.7	-0.2497	mg/L	0.00614	-0.2497	mg/L	0.00614	2.46%
Fe RADIAL†	0.2	0.0002	mg/L	0.00831	0.0002	mg/L	0.00831	>999.9%
Ca RADIAL†	1330.5	0.1037	mg/L	0.00287	0.1037	mg/L	0.00287	2.77%
K RADIAL†	44.9	0.0314	mg/L	0.01467	0.0314	mg/L	0.01467	46.78%
Mg RADIAL†	8.2	0.0119	mg/L	0.00999	0.0119	mg/L	0.00999	83.87%
Na RADIAL†	603.9	0.2282	mg/L	0.00805	0.2282	mg/L	0.00805	3.53%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 72 Autosampler Location: 152
Sample ID: BJ91919-BLK1 Date Collected: 11/5/2019 9:03:50 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:46 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: BJ91919-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	700668.4	1.0883	mg/L	0.00963				0.89%
Y RADIAL	28569.2	1.0600	mg/L	0.00287				0.27%
As 188.979†	-0.4	-0.0001	mg/L	0.00117	-0.0001	mg/L	0.00117	>999.9%
Tl 190.801†	20.1	0.0017	mg/L	0.00066	0.0017	mg/L	0.00066	38.78%
Se 196.026†	-3.3	-0.0008	mg/L	0.00253	-0.0008	mg/L	0.00253	303.52%
Zn 206.200†	678.8	0.0039	mg/L	0.00032	0.0039	mg/L	0.00032	8.34%
Sb 206.836†	-2.6	-0.0003	mg/L	0.00194	-0.0003	mg/L	0.00194	700.64%
Pb 220.353†	-26.9	-0.0018	mg/L	0.00101	-0.0018	mg/L	0.00101	54.72%
Cd 226.502†	81.0	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	11.71%
Co 228.616†	169.9	0.0016	mg/L	0.00013	0.0016	mg/L	0.00013	8.39%
Ni 231.604†	64.3	0.0009	mg/L	0.00012	0.0009	mg/L	0.00012	14.10%
Ba 233.527†	56.0	0.0003	mg/L	0.00009	0.0003	mg/L	0.00009	33.89%
Mn 257.610†	990.1	0.0007	mg/L	0.00002	0.0007	mg/L	0.00002	2.36%
Cr 267.716†	18.8	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	111.90%
Fe 273.955†	181.8	0.0039	mg/L	0.00555	0.0039	mg/L	0.00555	142.74%
Mg 279.077†	362.6	0.0203	mg/L	0.00264	0.0203	mg/L	0.00264	13.01%
V 292.402†	31.9	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	15.79%
Al 308.215†	-8546.4	-0.0337	mg/L	0.00834	-0.0337	mg/L	0.00834	24.74%
Be 313.107†	710.6	0.00013	mg/L	0.000014	0.00013	mg/L	0.000014	10.66%
Cu 324.752†	4476.2	0.0175	mg/L	0.00063	0.0175	mg/L	0.00063	3.59%
Ag 338.289†	60.2	0.0004	mg/L	0.00076	0.0004	mg/L	0.00076	215.43%
Na 330.237†	-37.5	-0.0316	mg/L	0.03720	-0.0316	mg/L	0.03720	117.83%
Ca 227.546†	6.5	0.0109	mg/L	0.02748	0.0109	mg/L	0.02748	251.50%
Al RADIAL†	-2072.0	-0.3342	mg/L	0.00765	-0.3342	mg/L	0.00765	2.29%
Fe RADIAL†	-0.2	-0.0003	mg/L	0.00556	-0.0003	mg/L	0.00556	>999.9%
Ca RADIAL†	-335.0	-0.0261	mg/L	0.00141	-0.0261	mg/L	0.00141	5.41%
K RADIAL†	149.4	0.1044	mg/L	0.03493	0.1044	mg/L	0.03493	33.48%
Mg RADIAL†	22.3	0.0324	mg/L	0.00735	0.0324	mg/L	0.00735	22.70%
Na RADIAL†	3050.1	1.1525	mg/L	0.02430	1.1525	mg/L	0.02430	2.11%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 73 Autosampler Location: 153
Sample ID: BJ91919-BS1 Date Collected: 11/5/2019 9:09:34 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:46 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: BJ91919-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	701146.3	1.0890	mg/L	0.00162				0.15%
Y RADIAL	29031.8	1.0772	mg/L	0.00567				0.53%
As 188.979†	8751.4	1.7830	mg/L	0.00417	1.7830	mg/L	0.00417	0.23%
Tl 190.801†	21511.4	1.8308	mg/L	0.00497	1.8308	mg/L	0.00497	0.27%
Se 196.026†	6412.4	1.6826	mg/L	0.00962	1.6826	mg/L	0.00962	0.57%
Zn 206.200†	80502.6	0.4580	mg/L	0.00194	0.4580	mg/L	0.00194	0.42%
Sb 206.836†	2119.0	0.2265	mg/L	0.00124	0.2265	mg/L	0.00124	0.55%
Pb 220.353†	7235.2	0.4799	mg/L	0.00074	0.4799	mg/L	0.00074	0.15%
Cd 226.502†	16207.1	0.0468	mg/L	0.00007	0.0468	mg/L	0.00007	0.16%
Co 228.616†	52481.7	0.4849	mg/L	0.00163	0.4849	mg/L	0.00163	0.34%
Ni 231.604†	36496.2	0.4882	mg/L	0.00173	0.4882	mg/L	0.00173	0.36%
Ba 233.527†	410546.8	1.9870	mg/L	0.00772	1.9870	mg/L	0.00772	0.39%
Mn 257.610†	663604.9	0.4907	mg/L	0.00156	0.4907	mg/L	0.00156	0.32%
Cr 267.716†	49376.5	0.1912	mg/L	0.00066	0.1912	mg/L	0.00066	0.35%
Fe 273.955†	47797.9	0.0012	mg/L	0.01622	0.0012	mg/L	0.01622	>999.9%
Mg 279.077†	16864.8	0.9462	mg/L	0.00082	0.9462	mg/L	0.00082	0.09%
V 292.402†	137369.3	0.4730	mg/L	0.00219	0.4730	mg/L	0.00219	0.46%
Al 308.215†	32665.2	-0.1179	mg/L	0.02117	-0.1179	mg/L	0.02117	17.97%
Be 313.107†	245954.1	0.04574	mg/L	0.000162	0.04574	mg/L	0.000162	0.36%
Cu 324.752†	69867.1	0.2727	mg/L	0.00104	0.2727	mg/L	0.00104	0.38%
Ag 338.289†	8276.7	0.0483	mg/L	0.00011	0.0483	mg/L	0.00011	0.23%
Na 330.237†	2069.2	1.7386	mg/L	0.02515	1.7386	mg/L	0.02515	1.45%
Ca 227.546†	316.7	0.5850	mg/L	0.02697	0.5850	mg/L	0.02697	4.61%
Al RADIAL†	9535.4	1.5378	mg/L	0.02598	1.5378	mg/L	0.02598	1.69%
Fe RADIAL†	853.2	0.9665	mg/L	0.01597	0.9665	mg/L	0.01597	1.65%
Ca RADIAL†	11940.4	0.9305	mg/L	0.00496	0.9305	mg/L	0.00496	0.53%
K RADIAL†	1209.9	0.8461	mg/L	0.05156	0.8461	mg/L	0.05156	6.09%
Mg RADIAL†	655.8	0.9532	mg/L	0.00853	0.9532	mg/L	0.00853	0.89%
Na RADIAL†	5003.5	1.8889	mg/L	0.02571	1.8889	mg/L	0.02571	1.36%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 74 Autosampler Location: 154
Sample ID: 19J1295-01 Date Collected: 11/5/2019 9:14:49 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:47 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: 19J1295-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	618924.0	0.9613	mg/L	0.00652				0.68%
Y RADIAL	28834.5	1.0699	mg/L	0.00519				0.49%
As 188.979†	69.1	0.0165	mg/L	0.00175	0.0165	mg/L	0.00175	10.63%
Tl 190.801†	-77.8	-0.0066	mg/L	0.00248	-0.0066	mg/L	0.00248	37.64%
Se 196.026†	79.9	0.0149	mg/L	0.00305	0.0149	mg/L	0.00305	20.38%
Zn 206.200†	2872.3	0.0163	mg/L	0.00023	0.0163	mg/L	0.00023	1.42%
Sb 206.836†	23.3	0.0025	mg/L	0.00216	0.0025	mg/L	0.00216	85.70%
Pb 220.353†	-13.8	-0.0013	mg/L	0.00066	-0.0013	mg/L	0.00066	51.26%
Cd 226.502†	-55.8	-0.0003	mg/L	0.00016	-0.0003	mg/L	0.00016	61.49%
Co 228.616†	9650.2	0.0891	mg/L	0.00076	0.0891	mg/L	0.00076	0.86%
Ni 231.604†	20772.7	0.2779	mg/L	0.00300	0.2779	mg/L	0.00300	1.08%
Ba 233.527†	22561.6	0.1092	mg/L	0.00081	0.1092	mg/L	0.00081	0.74%
Mn 257.610†	3050040.6	2.2553	mg/L	0.00361	2.2553	mg/L	0.00361	0.16%
Cr 267.716†	216.1	0.0009	mg/L	0.00015	0.0009	mg/L	0.00015	17.79%
Fe 273.955†	41251.2	0.0140	mg/L	0.01099	0.0140	mg/L	0.01099	78.79%
Mg 279.077†	1041010.0	58.297	mg/L	0.0693	58.297	mg/L	0.0693	0.12%
V 292.402†	-138.7	-0.0005	mg/L	0.00013	-0.0005	mg/L	0.00013	29.57%
Al 308.215†	-4841.5	0.1666	mg/L	0.08069	0.1666	mg/L	0.08069	48.42%
Be 313.107†	-174.1	-0.00003	mg/L	0.000021	-0.00003	mg/L	0.000021	64.75%
Cu 324.752†	3622.1	0.0142	mg/L	0.00058	0.0142	mg/L	0.00058	4.06%
Ag 338.289†	506.9	0.0007	mg/L	0.00080	0.0007	mg/L	0.00080	120.62%
Na 330.237†	243261.8	204.77	mg/L	1.755	204.77	mg/L	1.755	0.86%
Ca 227.546†	124689.7	211.41	mg/L	1.981	211.41	mg/L	1.981	0.94%
Al RADIAL†	-2493.6	-0.3910	mg/L	0.01408	-0.3910	mg/L	0.01408	3.60%
Fe RADIAL†	724.8	0.8210	mg/L	0.00916	0.8210	mg/L	0.00916	1.12%
Ca RADIAL†	2400486.2	187.10	mg/L	1.181	187.10	mg/L	1.181	0.63%
K RADIAL†	8650.7	6.0740	mg/L	0.07841	6.0740	mg/L	0.07841	1.29%
Mg RADIAL†	39840.6	57.913	mg/L	0.2932	57.913	mg/L	0.2932	0.51%
Na RADIAL†	611172.1	230.85	mg/L	1.367	230.85	mg/L	1.367	0.59%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 75 Autosampler Location: 155
Sample ID: 19J1295-04 Date Collected: 11/5/2019 9:22:20 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:47 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: 19J1295-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	616043.3	0.9568	mg/L	0.00400				0.42%
Y RADIAL	28645.8	1.0628	mg/L	0.00604				0.57%
As 188.979†	61.1	0.0149	mg/L	0.00565	0.0149	mg/L	0.00565	37.90%
Tl 190.801†	-66.5	-0.0056	mg/L	0.00138	-0.0056	mg/L	0.00138	24.58%
Se 196.026†	53.7	0.0080	mg/L	0.00468	0.0080	mg/L	0.00468	58.37%
Zn 206.200†	2758.5	0.0156	mg/L	0.00029	0.0156	mg/L	0.00029	1.85%
Sb 206.836†	23.1	0.0025	mg/L	0.00131	0.0025	mg/L	0.00131	52.49%
Pb 220.353†	-5.1	-0.0007	mg/L	0.00139	-0.0007	mg/L	0.00139	189.83%
Cd 226.502†	-95.0	-0.0004	mg/L	0.00011	-0.0004	mg/L	0.00011	30.50%
Co 228.616†	9654.0	0.0892	mg/L	0.00083	0.0892	mg/L	0.00083	0.93%
Ni 231.604†	20826.3	0.2786	mg/L	0.00192	0.2786	mg/L	0.00192	0.69%
Ba 233.527†	22985.9	0.1112	mg/L	0.00090	0.1112	mg/L	0.00090	0.81%
Mn 257.610†	3045542.1	2.2520	mg/L	0.00609	2.2520	mg/L	0.00609	0.27%
Cr 267.716†	268.5	0.0011	mg/L	0.00016	0.0011	mg/L	0.00016	14.57%
Fe 273.955†	44862.0	0.0273	mg/L	0.01240	0.0273	mg/L	0.01240	45.45%
Mg 279.077†	1040123.7	58.247	mg/L	0.1654	58.247	mg/L	0.1654	0.28%
V 292.402†	-157.7	-0.0005	mg/L	0.00006	-0.0005	mg/L	0.00006	11.81%
Al 308.215†	-5968.7	0.1047	mg/L	0.01150	0.1047	mg/L	0.01150	10.99%
Be 313.107†	-224.7	-0.00004	mg/L	0.000030	-0.00004	mg/L	0.000030	72.01%
Cu 324.752†	2966.9	0.0117	mg/L	0.00048	0.0117	mg/L	0.00048	4.15%
Ag 338.289†	508.7	0.0007	mg/L	0.00097	0.0007	mg/L	0.00097	143.66%
Na 330.237†	245336.9	206.51	mg/L	1.409	206.51	mg/L	1.409	0.68%
Ca 227.546†	125097.7	212.10	mg/L	1.223	212.10	mg/L	1.223	0.58%
Al RADIAL†	-2389.9	-0.3743	mg/L	0.00429	-0.3743	mg/L	0.00429	1.15%
Fe RADIAL†	777.4	0.8806	mg/L	0.00841	0.8806	mg/L	0.00841	0.95%
Ca RADIAL†	2405406.0	187.48	mg/L	1.317	187.48	mg/L	1.317	0.70%
K RADIAL†	8892.7	6.2432	mg/L	0.05163	6.2432	mg/L	0.05163	0.83%
Mg RADIAL†	39936.7	58.053	mg/L	0.1902	58.053	mg/L	0.1902	0.33%
Na RADIAL†	615916.9	232.64	mg/L	1.673	232.64	mg/L	1.673	0.72%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 81 Autosampler Location: 9
Sample ID: SEQ-CCV7 Date Collected: 11/5/2019 10:02:59 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:50 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-CCV7

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	666842.5	1.0357	mg/L	0.00965				0.93%
Y RADIAL	29701.9	1.1020	mg/L	0.01007				0.91%
As 188.979†	2426.3	0.4964	mg/L	0.00394	0.4964	mg/L	0.00394	0.79%
Tl 190.801†	5911.8	0.5034	mg/L	0.00537	0.5034	mg/L	0.00537	1.07%
Se 196.026†	1897.2	0.4937	mg/L	0.00721	0.4937	mg/L	0.00721	1.46%
Zn 206.200†	431274.4	2.4538	mg/L	0.01017	2.4538	mg/L	0.01017	0.41%
Sb 206.836†	2308.5	0.2469	mg/L	0.00245	0.2469	mg/L	0.00245	0.99%
Pb 220.353†	7516.3	0.4984	mg/L	0.00324	0.4984	mg/L	0.00324	0.65%
Cd 226.502†	84501.0	0.2442	mg/L	0.00080	0.2442	mg/L	0.00080	0.33%
Co 228.616†	265051.5	2.4489	mg/L	0.00914	2.4489	mg/L	0.00914	0.37%
Ni 231.604†	184090.2	2.4625	mg/L	0.00957	2.4625	mg/L	0.00957	0.39%
Ba 233.527†	2080152.3	10.068	mg/L	0.1060	10.068	mg/L	0.1060	1.05%
Mn 257.610†	3378984.7	2.4986	mg/L	0.02621	2.4986	mg/L	0.02621	1.05%
Cr 267.716†	252265.3	0.9767	mg/L	0.00348	0.9767	mg/L	0.00348	0.36%
Fe 273.955†	243859.8	0.1245	mg/L	0.03127	0.1245	mg/L	0.03127	25.10%
Mg 279.077†	432128.2	24.211	mg/L	0.1056	24.211	mg/L	0.1056	0.44%
V 292.402†	700258.7	2.4114	mg/L	0.00893	2.4114	mg/L	0.00893	0.37%
Al 308.215†	223597.6	0.2294	mg/L	0.11237	0.2294	mg/L	0.11237	48.98%
Be 313.107†	1307516.3	0.24313	mg/L	0.002606	0.24313	mg/L	0.002606	1.07%
Cu 324.752†	305831.0	1.1937	mg/L	0.00599	1.1937	mg/L	0.00599	0.50%
Ag 338.289†	205929.2	1.2012	mg/L	0.00366	1.2012	mg/L	0.00366	0.30%
Na 330.237†	27320.5	22.988	mg/L	0.0594	22.988	mg/L	0.0594	0.26%
Ca 227.546†	13958.8	23.902	mg/L	0.2000	23.902	mg/L	0.2000	0.84%
Al RADIAL†	58462.1	9.4288	mg/L	0.08835	9.4288	mg/L	0.08835	0.94%
Fe RADIAL†	4247.0	4.8110	mg/L	0.02913	4.8110	mg/L	0.02913	0.61%
Ca RADIAL†	308853.9	24.070	mg/L	0.1967	24.070	mg/L	0.1967	0.82%
K RADIAL†	6664.0	4.6630	mg/L	0.07107	4.6630	mg/L	0.07107	1.52%
Mg RADIAL†	16410.1	23.853	mg/L	0.1380	23.853	mg/L	0.1380	0.58%
Na RADIAL†	62631.2	23.645	mg/L	0.2072	23.645	mg/L	0.2072	0.88%

Method Loaded
Method Name: TAL AVIO500 091119 Method Last Saved: 9/11/2019 1:23:39 PM
IEC File: IEC 060319A.iec MSF File:
Method Description: TAL Metals

Sequence No.: 82 Autosampler Location: 4
Sample ID: SEQ-CCB7 Date Collected: 11/5/2019 10:07:52 PM
Analyst: KML Data Type: Reprocessed on 11/6/2019 9:33:50 AM
Logged In Analyst (Original) : Administrator
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample):

Mean Data: SEQ-CCB7

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	715802.3	1.1118	mg/L	0.00452				0.41%
Y RADIAL	29776.4	1.1048	mg/L	0.00264				0.24%
As 188.979†	16.2	0.0033	mg/L	0.00171	0.0033	mg/L	0.00171	52.05%
Tl 190.801†	19.5	0.0017	mg/L	0.00106	0.0017	mg/L	0.00106	63.72%
Se 196.026†	1.8	0.0005	mg/L	0.00292	0.0005	mg/L	0.00292	598.89%
Zn 206.200†	876.9	0.0050	mg/L	0.00024	0.0050	mg/L	0.00024	4.75%
Sb 206.836†	-11.3	-0.0012	mg/L	0.00068	-0.0012	mg/L	0.00068	56.04%
Pb 220.353†	-19.6	-0.0013	mg/L	0.00046	-0.0013	mg/L	0.00046	34.51%
Cd 226.502†	135.4	0.0004	mg/L	0.00014	0.0004	mg/L	0.00014	35.30%
Co 228.616†	133.1	0.0012	mg/L	0.00009	0.0012	mg/L	0.00009	7.21%
Ni 231.604†	98.1	0.0013	mg/L	0.00014	0.0013	mg/L	0.00014	10.90%
Ba 233.527†	49.6	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	36.17%
Mn 257.610†	450.7	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	4.48%
Cr 267.716†	-21.3	-0.0001	mg/L	0.00008	-0.0001	mg/L	0.00008	100.14%
Fe 273.955†	32.8	0.0062	mg/L	0.01010	0.0062	mg/L	0.01010	163.08%
Mg 279.077†	138.6	0.0077	mg/L	0.00099	0.0077	mg/L	0.00099	12.82%
V 292.402†	82.1	0.0003	mg/L	0.00012	0.0003	mg/L	0.00012	42.87%
Al 308.215†	-4781.5	-0.0219	mg/L	0.00662	-0.0219	mg/L	0.00662	30.29%
Be 313.107†	738.5	0.00014	mg/L	0.000012	0.00014	mg/L	0.000012	8.67%
Cu 324.752†	1313.4	0.0051	mg/L	0.00037	0.0051	mg/L	0.00037	7.22%
Ag 338.289†	-10.7	-0.0001	mg/L	0.00020	-0.0001	mg/L	0.00020	313.42%
Na 330.237†	-267.7	-0.2250	mg/L	0.00560	-0.2250	mg/L	0.00560	2.49%
Ca 227.546†	109.7	0.1856	mg/L	0.07794	0.1856	mg/L	0.07794	41.99%
Al RADIAL†	-1139.5	-0.1838	mg/L	0.00325	-0.1838	mg/L	0.00325	1.77%
Fe RADIAL†	-5.0	-0.0056	mg/L	0.01013	-0.0056	mg/L	0.01013	180.44%
Ca RADIAL†	1268.6	0.0989	mg/L	0.00217	0.0989	mg/L	0.00217	2.19%
K RADIAL†	7.0	0.0049	mg/L	0.01732	0.0049	mg/L	0.01732	352.38%
Mg RADIAL†	-2.6	-0.0038	mg/L	0.01034	-0.0038	mg/L	0.01034	272.23%
Na RADIAL†	467.2	0.1766	mg/L	0.00335	0.1766	mg/L	0.00335	1.89%

York Analytical Laboratories, Inc.
SDG: 19J1295
CLASS: HG
METHOD: EPA 7473

DATA PACKAGE COVER PAGE

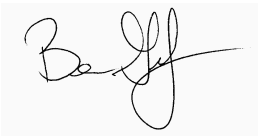
EPA 7473

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Client Sample Id:	Lab Sample Id:
KC-MW-01 1019	19J1295-01
KC-MW-02 1019	19J1295-02
KC-MW-05 1019	19J1295-03
KC-MW-DUP 1019	19J1295-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:  Name: Benjamin Gulizia

Date: 11/7/2019 Title: Laboratory Director

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

KC-MW-01 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-01 File ID: QBHGDMA80-01 110419A-012

Sampled: 10/29/19 17:45 Prepared: 11/04/19 10:35 Analyzed: 11/04/19 11:20

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BK90107 Sequence: Y9K0506 Calibration: 11/04/19 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

KC-MW-02 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-02 File ID: QBHGDMA80-01 110419A-013

Sampled: 10/29/19 15:19 Prepared: 11/04/19 10:35 Analyzed: 11/04/19 11:31

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BK90107 Sequence: Y9K0506 Calibration: 11/04/19 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

KC-MW-05 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-03 File ID: QBHGDMA80-01 110419A-014

Sampled: 10/29/19 14:31 Prepared: 11/04/19 10:35 Analyzed: 11/04/19 11:42

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BK90107 Sequence: Y9K0506 Calibration: 11/04/19 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

KC-MW-DUP 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-04 File ID: QBHGDMA80-01 110419A-015

Sampled: 10/29/19 00:00 Prepared: 11/04/19 10:35 Analyzed: 11/04/19 11:53

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BK90107 Sequence: Y9K0506 Calibration: 11/04/19 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

FORM I

METHOD BLANK DATA SHEET

EPA 7473

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK90107-BLK1	File ID:	QBHGDMA80-01 110419A-010
Prepared:	11/04/19 10:35	Preparation:	EPA 7473 water	Initial/Final:	0.25 mL / 0.25 mL
Analyzed:	11/04/19 10:59	Instrument:	DMA 80-01		
Batch:	BK90107	Sequence:	Y9K0506	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	Q
7439-97-6	Mercury	0.00020	U

STANDARD REFERENCE MATERIAL RECOVERY

EPA 7473

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Matrix: Water
Batch: BK90107
Laboratory ID: BK90107-SRM1
Preparation: EPA 7473 water
Initial/Final: 0.1 mL / 0.1 mL

ANALYTE	TRUE (mg/L)	FOUND (mg/L)	SRM % REC.	QC LIMITS REC.
Mercury	0.0100	0.00888	88.8	70 - 130

* Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 7473

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19J1295

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Matrix: Water **Instrument:** DMA 80-01

Analyte	LOD	LOQ	Units
Mercury	0.00020	0.00020	mg/L

FORM IV **PREPARATION BATCH SUMMARY**

EPA 7473

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Batch: BK90107 Batch Matrix: Water Preparation: EPA 7473 water

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 1019	19J1295-01	HGDMA80-01 110419A-	11/04/19 10:35	
KC-MW-02 1019	19J1295-02	HGDMA80-01 110419A-	11/04/19 10:35	
KC-MW-05 1019	19J1295-03	HGDMA80-01 110419A-	11/04/19 10:35	
KC-MW-DUP 1019	19J1295-04	HGDMA80-01 110419A-	11/04/19 10:35	
Blank	BK90107-BLK1	HGDMA80-01 110419A-	11/04/19 10:35	
Reference	BK90107-SRM1	HGDMA80-01 110419A-	11/04/19 10:35	

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7473

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Sequence: Y9K0506
Instrument: DMA 80-01
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Low Cal Check	Y9K0506-LCV1	QBHGDMA80-01 110419A-004	11/04/19 09:59
High Cal Check	Y9K0506-HCV1	QBHGDMA80-01 110419A-005	11/04/19 10:12
Calibration Check	Y9K0506-CCV1	QBHGDMA80-01 110419A-008	11/04/19 10:40
Calibration Blank	Y9K0506-CCB1	QBHGDMA80-01 110419A-009	11/04/19 10:48
Blank	BK90107-BLK1	QBHGDMA80-01 110419A-010	11/04/19 10:59
Reference	BK90107-SRM1	QBHGDMA80-01 110419A-011	11/04/19 11:10
KC-MW-01 1019	19J1295-01	QBHGDMA80-01 110419A-012	11/04/19 11:20
KC-MW-02 1019	19J1295-02	QBHGDMA80-01 110419A-013	11/04/19 11:31
KC-MW-05 1019	19J1295-03	QBHGDMA80-01 110419A-014	11/04/19 11:42
KC-MW-DUP 1019	19J1295-04	QBHGDMA80-01 110419A-015	11/04/19 11:53
Calibration Check	Y9K0506-CCV2	QBHGDMA80-01 110419A-020	11/04/19 12:47
Calibration Blank	Y9K0506-CCB2	QBHGDMA80-01 110419A-021	11/04/19 12:58
Calibration Check	Y9K0506-CCV3	QBHGDMA80-01 110419A-032	11/04/19 14:56
Calibration Blank	Y9K0506-CCB3	QBHGDMA80-01 110419A-033	11/04/19 15:07
Calibration Check	Y9K0506-CCV4	QBHGDMA80-01 110419A-043	11/04/19 17:17
Calibration Blank	Y9K0506-CCB4	QBHGDMA80-01 110419A-044	11/04/19 17:28

CONTINUING CALIBRATION CHECK

EPA 7473

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: DMA 80-01
Calibration: 11/04/19
Control Limt: +/- 20.00%
Sequence: Y9K0506

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y9K0506-CCV1	Mercury	0.0100	0.0106	106	mg/L	EPA 7473
Y9K0506-CCV2	Mercury	0.0100	0.0105	105	mg/L	EPA 7473
Y9K0506-CCV3	Mercury	0.0100	0.0110	110	mg/L	EPA 7473
Y9K0506-CCV4	Mercury	0.0100	0.0107	107	mg/L	EPA 7473

* Values outside of QC limits

FORM I **BLANKS**

EPA 7473

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: DMA 80-01 Project: 41103.00 KINGSTON CVS

Sequence: Y9K0506 Calibration: 11/04/19 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y9K0506-CCB1	Mercury	0.00	0.00020	mg/L		EPA 7473
BK90107-BLK1	Mercury	0.00	0.00020	mg/L		EPA 7473
Y9K0506-CCB2	Mercury	0.00	0.00020	mg/L		EPA 7473
Y9K0506-CCB3	Mercury	0.00	0.00020	mg/L		EPA 7473
Y9K0506-CCB4	Mercury	0.00	0.00020	mg/L		EPA 7473

BENCHSHEETS

SDG: 19J1295

CLASS: HG

METHOD: EPA 7473

PREPARATION BENCH SHEET-AQUEOUS: BK90107

Prepared: **11/04/2019 10:35**

York Analytical Laboratories, Inc.

Printed: 11/5/2019 4:36:40PM

Matrix: Water **Preparation EPA 7473 water** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
19J1295-01 D	Mercury by 7473	0.25	0.25										
19J1295-02 D	Mercury by 7473	0.25	0.25										
19J1295-03 D	Mercury by 7473	0.25	0.25										
19J1295-04 D	Mercury by 7473	0.25	0.25										
19J1309-01 H	Mercury by 7473	0.25	0.25										
19J1309-02 H	Mercury by 7473	0.25	0.25										
19J1309-03 H	Mercury by 7473	0.25	0.25										
19J1323-02 C	Mercury by 7473	0.25	0.25										
19J1384-01 M	Mercury by 7473	0.25	0.25										
19K0020-01 A	Mercury by 7473	0.25	0.25										
19K0020-02 A	Mercury by 7473	0.25	0.25										
19K0025-01 J	Mercury by 7473	0.25	0.25										
19K0040-01 X	Mercury by 7473	0.25	0.25										
19K0040-02 H	Mercury by 7473	0.25	0.25										
19K0040-03 H	Mercury by 7473	0.25	0.25										
19K0040-04 H	Mercury by 7473	0.25	0.25										
19K0040-05 H	Mercury by 7473	0.25	0.25										
19K0040-06 H	Mercury by 7473	0.25	0.25										
19K0040-07 H	Mercury by 7473	0.25	0.25										
19K0040-08 H	Mercury by 7473	0.25	0.25										
BK90107-BLK1	QC	0.25	0.25										
BK90107-DUP1	QC	0.25	0.25					19K0040-08					
BK90107-MS1	QC	0.25	0.25	Y19G037	125			19K0040-08					
BK90107-SRM1	QC	0.1	0.1	Y19I188	100								

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparation Performed by SY **Date:** 11/04/2019 10:35

Pos Nr	Samplename Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
1 1	mb	0.1000	g	04.11.2019 10:16:58		0.0065	0.0872	0.8716	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
2 2	mb	0.1000	g	04.11.2019 10:16:59		0.0003	0.0000	0.0001	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
3 3	Sys Conditioning 1ng	0.1000	g	04.11.2019 10:32:45		0.0574	1.0786	10.7857	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
4 4	SEQ-LCV1	0.1000	g	04.11.2019 11:00:17		0.0122	0.1988	1.9880	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
5 5	SEQ-HCV1	0.1000	g	04.11.2019 11:12:35		0.1149	2.1999	21.9995	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
6 -	auto BV (1)	0.0000	g	04.11.2019 11:21:37	B	0.0007	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	15.11.2013
7 6	mb	0.1000	g	04.11.2019 11:12:55		0.0007	0.0000	0.0001	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
8 7	SEQ-CCV1	0.1000	g	04.11.2019 11:40:43		0.0566	1.0631	10.6315	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
9 8	SEQ-CCB1	0.2500	g	04.11.2019 11:40:47		0.0009	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
10 9	BK90107-BLK1	0.2500	g	04.11.2019 11:57:04		0.0005	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
11 10	BK90107-SRM1	0.1000	g	04.11.2019 11:57:08		0.0476	0.8882	8.8823	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
12 11	19J1295-01	0.2500	g	04.11.2019 12:16:13		0.0036	0.0298	0.1192	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
13 12	19J1295-02	0.2500	g	04.11.2019 12:16:16		0.0015	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
14 13	19J1295-03	0.2500	g	04.11.2019 12:16:19		0.0014	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
15 14	19J1295-04	0.2500	g	04.11.2019 12:16:22		0.0013	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
16 15	19J1309-01	0.2500	g	04.11.2019 12:16:24		0.0010	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
17 16	19J1309-02	0.2500	g	04.11.2019 12:16:27		0.0013	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
18 17	19J1309-03	0.2500	g	04.11.2019 12:16:29		0.0013	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
19 18	19J1323-02	0.2500	g	04.11.2019 12:16:32		0.0036	0.0299	0.1197	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
20 19	SEQ-CCV2	0.1000	g	04.11.2019 13:47:42		0.0558	1.0489	10.4893	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
21 20	SEQ-CCB2	0.2500	g	04.11.2019 13:47:45		0.0007	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
22 21	19K0040-01	0.2500	g	04.11.2019 14:09:52		0.0020	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013

Pos Nr	Samplename Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
23 22	19K0040-02	0.2500	g	04.11.2019 14:09:57	✓	0.0003	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
24 23	19K0040-03	0.2500	g	04.11.2019 14:10:00	✓	0.0013	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
25 24	19K0040-04	0.2500	g	04.11.2019 14:10:08	✓	0.0012	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
26 25	19K0040-05	0.2500	g	04.11.2019 14:10:10	✓	0.0023	0.0053	0.0212	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
27 26	19K0040-06	0.2500	g	04.11.2019 14:10:13	✓	0.0018	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
28 27	19K0040-07	0.2500	g	04.11.2019 14:10:15	✓	0.0007	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
29 28	19K0040-08	0.2500	g	04.11.2019 14:10:17	✓	0.0007	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
30 29	BK90058-DUP1 BK90107-DUP1 SY	0.2500	g	04.11.2019 14:10:20	✓	0.0005	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
31 30	BK90058-MS1 BK90107-MS1 SY	0.1250	g	04.11.2019 15:31:51	✓	0.0695	1.3151	10.5206	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
32 31	SEQ-CCV3	0.1000	g	04.11.2019 15:45:54	✓	0.0583	1.0973	10.9730	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
33 32	SEQ-CCB3	0.2500	g	04.11.2019 15:45:57	✓	0.0007	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
34 33	19J1384-01	0.2500	g	04.11.2019 16:09:12	✓	0.0019	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
35 34	19K0020-01	0.2500	g	04.11.2019 16:09:17	✓	0.0009	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
36 35	19K0020-02	0.2500	g	04.11.2019 16:09:21	✓	0.0011	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
37 36	19K0025-01	0.2500	g	04.11.2019 16:09:23	✓	0.0009	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
38 37	BK90130-BLK1	0.2500	g	04.11.2019 16:09:31	✓	0.0004	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
39 38	BK90130-SRM1	0.1000	g	04.11.2019 17:06:22	✓	0.0581	1.0919	10.9192	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
40 39	19J1391-01	0.2500	g	04.11.2019 17:06:26	✓	0.0017	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
41 40	BK90130-DUP1	0.2500	g	04.11.2019 17:57:43	✓	0.0011	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
42 1	BK90130-MS1	0.1250	g	04.11.2019 17:57:50	✓	0.0624	1.1763	9.4105	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
43 2	SEQ-CCV4	0.1000	g	04.11.2019 18:11:52	✓	0.0568	1.0683	10.6830	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
44 3	SEQ-CCB4	0.2500	g	04.11.2019 18:11:55	✓	0.0007	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013

Pos Nr	Samplename Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
45 4	19J1392-01	0.2500	g	04.11.2019 18:29:14	✓	0.0011	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
46 5	19J1393-01	0.2500	g	04.11.2019 18:29:17	✓	0.0009	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
47 6	19K0030-01	0.2500	g	04.11.2019 18:29:20	✓	0.0028	0.0150	0.0602	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
48 7	19K0033-01	0.2500	g	04.11.2019 18:29:24	✓	0.0714	1.3519	5.4077	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
49 8	19K0034-01	0.2500	g	04.11.2019 18:29:26	✓	0.0024	0.0072	0.0290	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
50 9	19K0033-01	0.2500	g	04.11.2019 19:30:50	✓	0.0710	1.3450	5.3800	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
51 10	SEQ-CCV5	0.1000	g	04.11.2019 19:45:38	✓	0.0562	1.0556	10.5564	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
52 11	SEQ-CCB5	0.2500	g	04.11.2019 19:55:45	✓	0.0007	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
53 13	BK90138-SRM1	0.1000	g	04.11.2019 20:09:21	✓	0.0539	1.0117	10.1174	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
54 12	BK90138-BLK1	0.2500	g	04.11.2019 20:43:02	✓	0.0007	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
55 14	BK90138-LBK1	0.2500	g	04.11.2019 20:55:02	✓	0.0016	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
56 15	19J1233-11	0.2500	g	04.11.2019 21:12:14	✓	0.0008	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
57 16	BK90138-DUP1	0.2500	g	04.11.2019 21:13:16	✓	0.0006	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
58 17	BK90138-MS1	0.1250	g	04.11.2019 21:25:04	✓	0.0710	1.3446	10.7565	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
59 18	19J1233-13	0.2500	g	04.11.2019 21:43:27	✓	0.0016	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
60 19	19J1233-33	0.2500	g	04.11.2019 21:44:52	✓	0.0008	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
61 20	SEQ-CCV6	0.1000	g	04.11.2019 22:07:22	✓	0.0597	1.1240	11.2402	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
62 21	SEQ-CCB6	0.2500	g	04.11.2019 22:27:01	✓	0.0007	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013

Sample listing "QBHgDMA80-01 072018icalaq.d80"

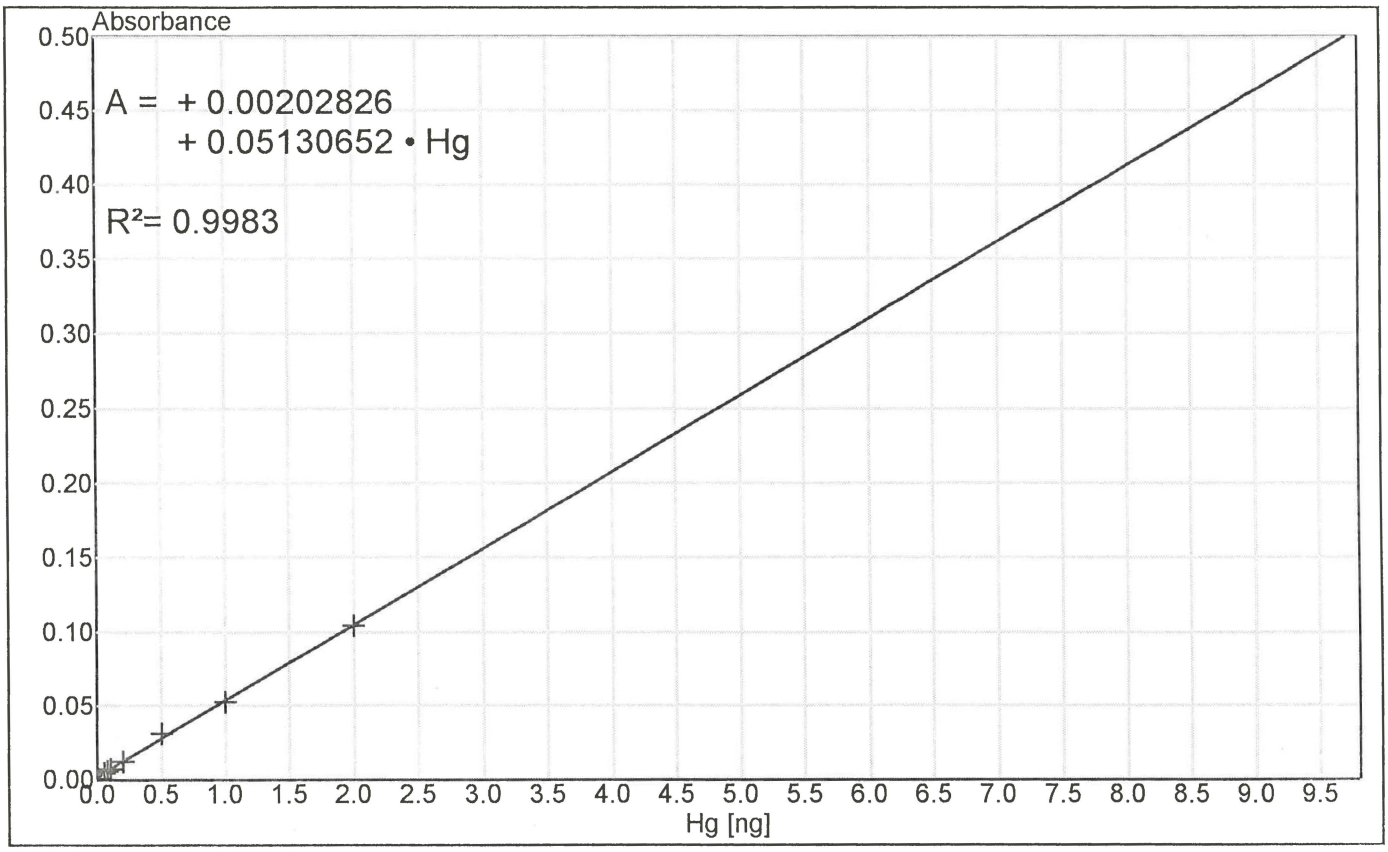
Created by "Service"
20.07.2018 13:19:37

Pos Nr.	Samplename Remark	Amount Date	State Date	Height	Hg [ng]	Concentr. [µg/kg]	Σ	Cal- Factor
1 (1)	0 ng	0.1000 g 20.07.18 11:21	✔ C 20.07.18 11:30	0.0004	0.0000	0.0001		1.0000
2 (2)	0.05 ng	0.0500 g 20.07.18 11:23	✔ C 20.07.18 11:38	0.0043	0.0500	1.0000		1.0000
3 (3)	0.075 ng	0.0750 g 20.07.18 11:24	✔ C 20.07.18 11:49	0.0057	0.0750	1.0000		1.0000
4 (4)	0.100 ng	0.1000 g 20.07.18 11:24	✔ C 20.07.18 12:00	0.0072	0.1000	1.0000		1.0000
5 (5)	0.200 ng	0.2000 g 20.07.18 11:24	✔ C 20.07.18 12:12	0.0121	0.2000	1.0000		1.0000
6 (6)	0.500 ng	0.5000 g 20.07.18 11:25	✔ C 20.07.18 12:23	0.0311	0.5000	1.0000		1.0000
7 (7)	1.00 ng	0.1000 g 20.07.18 11:25	✔ C 20.07.18 12:34	0.0525	1.0000	10.0000		1.0000
8 (8)	2.00 ng	0.2000 g 20.07.18 11:25	✔ C 20.07.18 12:45	0.1042	2.0000	10.0000		1.0000
9 (9)	mb	0.2500 g 20.07.18 12:57	✔ 20.07.18 12:58	0.0008	0.0000	0.0000		1.0000
10 (10)	SEQ-ICV1	0.1000 g 20.07.18 13:09	✔ 20.07.18 13:10	0.0567	1.0647	10.6465		1.0000

Calibration data "DMA80_01_ICAL_LLAQ_ 072018 linear.c80"

Created by "" at 20.07.2018 13:59:30

Cell 0

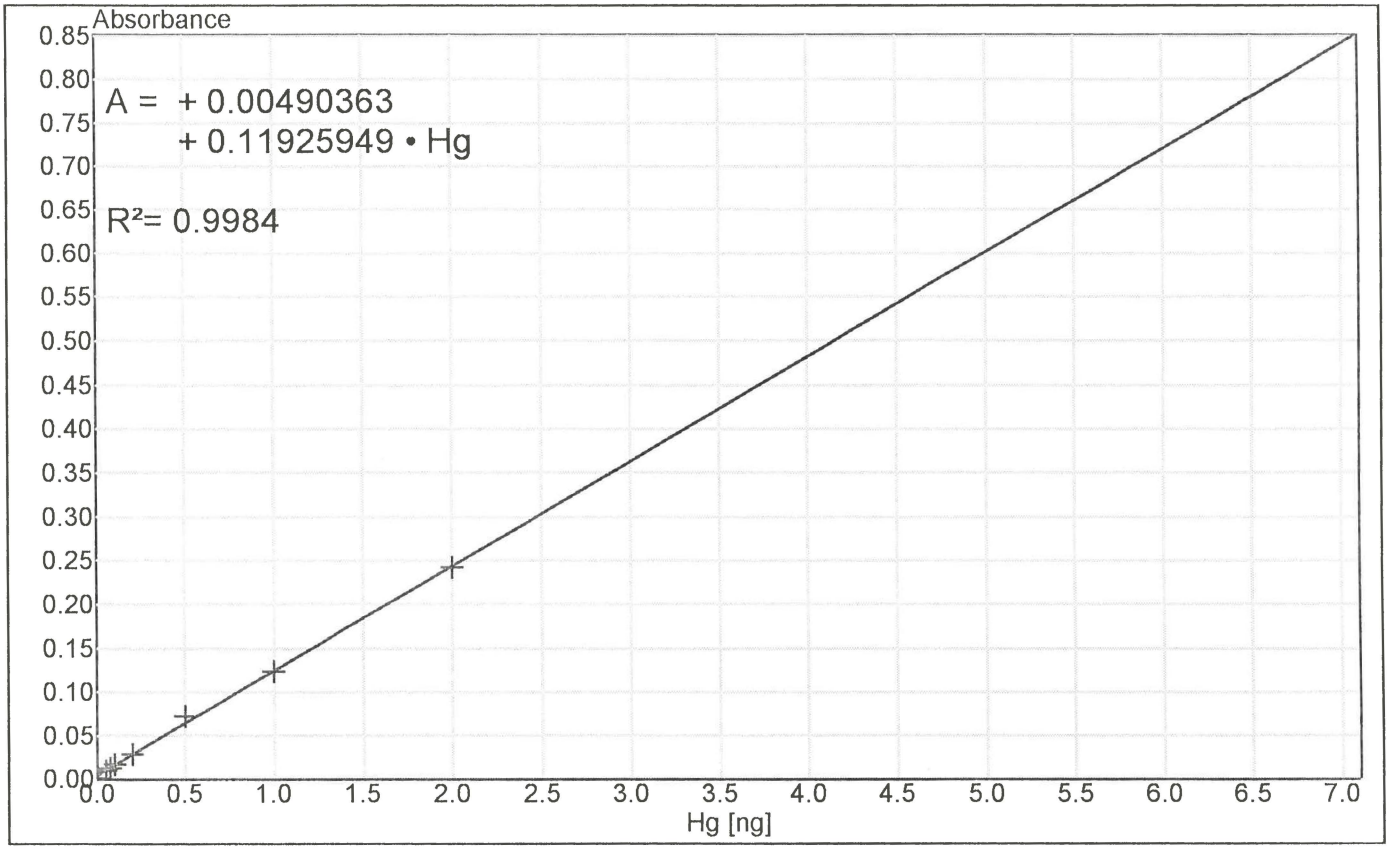


Nr.		Hg [ng]	Height ^	Error ⊿E [%]	Date	Remarks
1	✓	0.0000	0.0004	-0.0016	20.07.2018 11:38:58	
2	✓	0.0500	0.0043	-0.0003	20.07.2018 11:49:57	
3	✓	0.0750	0.0057	-0.0002	20.07.2018 12:01:07	
4	✓	0.1000	0.0072	0.0001	20.07.2018 12:12:18	
5	✓	0.2000	0.0121	-0.0002	20.07.2018 12:23:29	
6	✓	0.5000	0.0311	0.0034	20.07.2018 12:34:43	
7	✓	1.0000	0.0525	-0.0008	20.07.2018 12:45:56	
8	✓	2.0000	0.1042	-0.0004	20.07.2018 12:57:07	

Calibration data "DMA80_01_ICAL_LLAQ_ 072018 linear.c80"

Created by "" at 20.07.2018 13:59:30

Cell 1



Nr.		Hg [ng]	Height ^	Error ⊿E [%]	Date	Remarks
1	✓	0.0000	0.0008	-0.0041	20.07.2018 11:38:58	
2	✓	0.0500	0.0101	-0.0008	20.07.2018 11:49:57	
3	✓	0.0750	0.0130	-0.0008	20.07.2018 12:01:07	
4	✓	0.1000	0.0170	0.0002	20.07.2018 12:12:18	
5	✓	0.2000	0.0290	0.0002	20.07.2018 12:23:29	
6	✓	0.5000	0.0721	0.0076	20.07.2018 12:34:43	
7	✓	1.0000	0.1234	-0.0008	20.07.2018 12:45:56	
8	✓	2.0000	0.2419	-0.0015	20.07.2018 12:57:07	

INITIALCALIBRATION VERIFICATION (Hg)

Lab Name: York Analytical Laboratories, Inc.

I Cal Source: Inorganic Ventures

Sequence: QBHgDMA80-01 072018Aq ICAL.d80

C Cal Source: Inorganic Ventures

Concentration units: ug/L

Analyte	TRUE	ICV FOUND	%R(1)
Mercury	10.0000	10.6465	106.5

(1) Control Limits Hg 80-120 %

INITIAL CALIBRATION BLANK

Lab Name: York Analytical Laboratories, Inc

Preparation Blank Matrix: Aqueous

Prep Blank ID: N/A

Prep. Blank Conc. Units: ug/L

Sequence ID: QBHgDMA80-01 072018Aq ICAL.d80

Initial Calibration Blanks (ug/L)		
Analyte	ICB	C
Mercury	0.0001	U

York Analytical Laboratories, Inc.
SDG: 19J1295
CLASS: HG
METHOD: EPA 7473

DATA PACKAGE COVER PAGE

EPA 7473

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Client Sample Id:	Lab Sample Id:
KC-MW-01 1019	19J1295-01
KC-MW-DUP 1019	19J1295-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:  Name: Benjamin Gulizia

Date: 11/7/2019 Title: Laboratory Director

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

KC-MW-01 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-01 File ID: QBHGDMA80-01 110619A-012

Sampled: 10/29/19 17:45 Prepared: 11/06/19 11:11 Analyzed: 11/06/19 11:34

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BK90246 Sequence: Y9K0625 Calibration: 11/06/19 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury (dissolved)	0.0002000	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

KC-MW-DUP 1019

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Matrix: Water Laboratory ID: 19J1295-04 File ID: QBHGDMA80-01 110619A-013

Sampled: 10/29/19 00:00 Prepared: 11/06/19 11:11 Analyzed: 11/06/19 11:45

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BK90246 Sequence: Y9K0625 Calibration: 11/06/19 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury (dissolved)	0.0002000	1	U	EPA 7473

FORM I

METHOD BLANK DATA SHEET

EPA 7473

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19J1295
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.00 KINGSTON CVS
Matrix:	Water	Laboratory ID:	BK90246-BLK1	File ID:	QBHGDMA80-01 110619A-010
Prepared:	11/06/19 11:11	Preparation:	EPA 7473 water	Initial/Final:	0.25 mL / 0.25 mL
Analyzed:	11/06/19 11:13	Instrument:	DMA 80-01		
Batch:	BK90246	Sequence:	Y9K0625	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	Q
7439-97-6	Mercury	0.0002000	U

STANDARD REFERENCE MATERIAL RECOVERY

EPA 7473

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Matrix: Water
Batch: BK90246
Laboratory ID: BK90246-SRM1
Preparation: EPA 7473 water
Initial/Final: 0.1 mL / 0.1 mL

ANALYTE	TRUE (mg/L)	FOUND (mg/L)	SRM % REC.	QC LIMITS REC.
Mercury	0.0100	0.009423	94.2	70 - 130

* Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 7473

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19J1295

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.00 KINGSTON CVS

Matrix: Water **Instrument:** DMA 80-01

Analyte	LOD	LOQ	Units
Mercury (dissolved)	0.0002000	0.0002000	mg/L

FORM IV **PREPARATION BATCH SUMMARY**

EPA 7473

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.00 KINGSTON CVS

Batch: BK90246 Batch Matrix: Water Preparation: EPA 7473 water

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 1019	19J1295-01	HGDMA80-01 110619A-	11/06/19 11:11	
KC-MW-DUP 1019	19J1295-04	HGDMA80-01 110619A-	11/06/19 11:11	
Blank	BK90246-BLK1	HGDMA80-01 110619A-	11/06/19 11:11	
Reference	BK90246-SRM1	HGDMA80-01 110619A-	11/06/19 11:11	

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7473

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Sequence: Y9K0625
Instrument: DMA 80-01
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Low Cal Check	Y9K0625-LCV1	QBHGDMA80-01 110619A-004	11/06/19 09:46
High Cal Check	Y9K0625-HCV1	QBHGDMA80-01 110619A-005	11/06/19 10:17
Calibration Check	Y9K0625-CCV1	QBHGDMA80-01 110619A-008	11/06/19 10:54
Calibration Blank	Y9K0625-CCB1	QBHGDMA80-01 110619A-009	11/06/19 11:02
Blank	BK90246-BLK1	QBHGDMA80-01 110619A-010	11/06/19 11:13
Reference	BK90246-SRM1	QBHGDMA80-01 110619A-011	11/06/19 11:24
KC-MW-01 1019	19J1295-01	QBHGDMA80-01 110619A-012	11/06/19 11:34
KC-MW-DUP 1019	19J1295-04	QBHGDMA80-01 110619A-013	11/06/19 11:45
Calibration Check	Y9K0625-CCV2	QBHGDMA80-01 110619A-020	11/06/19 13:01
Calibration Blank	Y9K0625-CCB2	QBHGDMA80-01 110619A-021	11/06/19 13:12
Calibration Check	Y9K0625-CCV3	QBHGDMA80-01 110619A-032	11/06/19 15:15
Calibration Blank	Y9K0625-CCB3	QBHGDMA80-01 110619A-033	11/06/19 15:23

CONTINUING CALIBRATION CHECK

EPA 7473

Laboratory: York Analytical Laboratories, Inc.
SDG: 19J1295
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.00 KINGSTON CVS
Instrument ID: DMA 80-01
Calibration: 11/06/19
Control Limt: +/- 20.00%
Sequence: Y9K0625

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y9K0625-CCV1	Mercury (dissolved)	0.0100	0.011291	113	mg/L	EPA 7473
Y9K0625-CCV2	Mercury (dissolved)	0.0100	0.0098172	98.2	mg/L	EPA 7473
Y9K0625-CCV3	Mercury (dissolved)	0.0100	0.010194	102	mg/L	EPA 7473

* Values outside of QC limits

FORM I **BLANKS**

EPA 7473

Laboratory: York Analytical Laboratories, Inc. SDG: 19J1295

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: DMA 80-01 Project: 41103.00 KINGSTON CVS

Sequence: Y9K0625 Calibration: 11/06/19 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y9K0625-CCB1	Mercury (dissolved)	0.000	0.0002000	mg/L		EPA 7473
BK90246-BLK1	Mercury (dissolved)	0.000	0.0002000	mg/L		EPA 7473
Y9K0625-CCB2	Mercury (dissolved)	0.000	0.0002000	mg/L		EPA 7473
Y9K0625-CCB3	Mercury (dissolved)	0.000	0.0002000	mg/L		EPA 7473

BENCHSHEETS

SDG: 19J1295

CLASS: HG

METHOD: EPA 7473

PREPARATION BENCH SHEET-AQUEOUS: BK90246

Prepared: **11/06/2019 11:11**

York Analytical Laboratories, Inc.

Printed: 11/7/2019 10:38:44AM

Matrix: Water **Preparation EPA 7473 water** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data			Decanted Y/N	Comments
									Initial	Acid	Basic		
19J1295-01 D	Mercury by 7473, I	0.25	0.25										
19J1295-04 D	Mercury by 7473, I	0.25	0.25										
19K0025-01 I	Mercury by 7473, I	0.25	0.25										
19K0086-01 I	Mercury by 7473, I	0.25	0.25										
19K0086-02 I	Mercury by 7473, I	0.25	0.25										
19K0086-03 I	Mercury by 7473, I	0.25	0.25										
19K0086-04 I	Mercury by 7473, I	0.25	0.25										
19K0093-01 I	Mercury by 7473, I	0.25	0.25										
19K0093-02 I	Mercury by 7473, I	0.25	0.25										
BK90246-BLK1	QC	0.25	0.25										
BK90246-DUP1	QC	0.25	0.25					19K0086-04					
BK90246-MS1	QC	0.25	0.25	Y19G037	125			19K0086-04					
BK90246-SRM1	QC	0.1	0.1	Y19I188	100								

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparation Performed by SY **Date:** 11/06/2019 11:11

Pos Nr	Samplename Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
1 1	mb	0.1000	g	06.11.2019 10:10:45		0.0021	0.0014	0.0140	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
2 2	mb	0.1000	g	06.11.2019 10:10:47		0.0006	0.0000	0.0001	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
3 3	Sys Conditioning 1ng	0.1000	g	06.11.2019 10:18:44		0.0569	1.0695	10.6949	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
4 4	SEQ-LCV1	0.1000	g	06.11.2019 10:47:03		0.0118	0.1898	1.8983	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
5 5	SEQ-HCV1	0.1000	g	06.11.2019 11:17:22		0.1057	2.0206	20.2063	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
6 -	auto BV (1)	0.0000	g	06.11.2019 11:26:40	B	0.0008	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	15.11.2013
7 6	mb	0.1000	g	06.11.2019 11:18:29		0.0008	0.0000	0.0001	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
8 7	SEQ-CCV1	0.1000	g	06.11.2019 11:54:44		0.0600	1.1291	11.2911	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
9 8	SEQ-CCB1	0.2500	g	06.11.2019 11:54:47		0.0008	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
10 9	BK90246-BLK1	0.2500	g	06.11.2019 12:12:33		0.0005	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
11 10	BK90246-SRM1	0.1000	g	06.11.2019 12:12:38		0.0504	0.9423	9.4226	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
12 11	19J1295-01	0.2500	g	06.11.2019 12:34:02		0.0025	0.0097	0.0386	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
13 12	19J1295-04	0.2500	g	06.11.2019 12:34:05		0.0013	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
14 13	19K0086-01	0.2500	g	06.11.2019 12:34:08		0.0011	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
15 14	19K0086-02	0.2500	g	06.11.2019 12:34:14		0.0015	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
16 15	19K0086-03	0.2500	g	06.11.2019 12:34:16		0.0007	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
17 16	19K0086-04	0.2500	g	06.11.2019 12:34:18		0.0009	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
18 17	BK90246-DUP1	0.2500	g	06.11.2019 12:34:24		0.0017	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
19 18	BK90246-MS1	0.1250	g	06.11.2019 13:43:52		0.0698	1.3212	10.5699	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
20 19	SEQ-CCV2	0.1000	g	06.11.2019 13:43:56		0.0524	0.9817	9.8172	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
21 20	SEQ-CCB2	0.2500	g	06.11.2019 13:43:59		0.0008	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
22 21	19K0025-01	0.2500	g	06.11.2019 14:16:07		0.0028	0.0147	0.0590	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013

Pos Nr	Samplename Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
23 22	19K0093-01	0.2500	g	06.11.2019 14:16:10	✓	0.0009	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
24 23	19K0093-02	0.2500	g	06.11.2019 14:16:12	✓	0.0010	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
25 24	BK90268-BLK1	0.2500	g	06.11.2019 14:16:17	✓	0.0003	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
26 25	BK90268-SRM1	0.1000	g	06.11.2019 14:16:23	✓	0.0510	0.9537	9.5370	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
27 26	19K0069-01	0.2500	g	06.11.2019 14:16:27	✓	0.0017	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
28 27	BK90268-DUP1	0.2500	g	06.11.2019 14:16:30	✓	0.0010	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
29 28	BK90268-MS1	0.1250	g	06.11.2019 15:17:48	✓	0.0672	1.2702	10.1619	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
30 29	19K0108-01	0.2500	g	06.11.2019 15:17:52	✓	0.0017	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
31 30	19K0108-02	0.2500	g	06.11.2019 15:17:55	✓	0.0015	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
32 31	SEQ-CCV3	0.1000	g	06.11.2019 16:15:48	✓	0.0543	1.0194	10.1935	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
33 32	SEQ-CCB3	0.2500	g	06.11.2019 16:22:24	✓	0.0005	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
34 33	19K0108-03	0.2500	g	06.11.2019 16:25:03	✓	0.0014	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
35 34	19K0108-04	0.2500	g	06.11.2019 16:25:07	✓	0.0011	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
36 35	19K0108-05	0.2500	g	06.11.2019 16:25:11	✓	0.0007	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
37 36	19K0108-06	0.2500	g	06.11.2019 16:25:13	✓	0.0008	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
38 37	19K0108-07	0.2500	g	06.11.2019 16:25:16	✓	0.0012	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
39 38	19K0108-08	0.2500	g	06.11.2019 16:25:18	✓	0.0015	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
40 39	19K0108-09	0.2500	g	06.11.2019 16:25:20	✓	0.0017	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
41 40	19K0108-10	0.2500	g	06.11.2019 16:25:23	✓	0.0012	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
42 1	19K0108-11	0.2500	g	06.11.2019 16:25:23	✓	0.0009	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
43 2	19K0108-12	0.2500	g	06.11.2019 16:25:23	✓	0.0007	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
44 3	SEQ-CCV4	0.1000	g	06.11.2019 18:13:01	✓	0.0511	0.9570	9.5702	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013

Pos Nr	Samplename Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
45 4	SEQ-CCB4	0.2500	g	06.11.2019 18:13:09	›	0.0004	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
46 5	19K0108-13	0.2500	g	06.11.2019 18:37:05	›	0.0012	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
47 6	19K0108-14	0.2500	g	06.11.2019 18:37:12	›	0.0008	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
48 7	SEQ-CCV5	0.1000	g	06.11.2019 19:08:20	›	0.0531	0.9959	9.9585	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013
49 8	SEQ-CCB5	0.2500	g	06.11.2019 19:18:36	›	0.0006	0.0000	0.0000	1.0000	DMA80_01_ICAL_LLAQ_ 072018 linear.c80 20.07.2018 13:59:30	aq samples.m80 15.11.2013

Sample listing "QBHgDMA80-01 072018icalaq.d80"

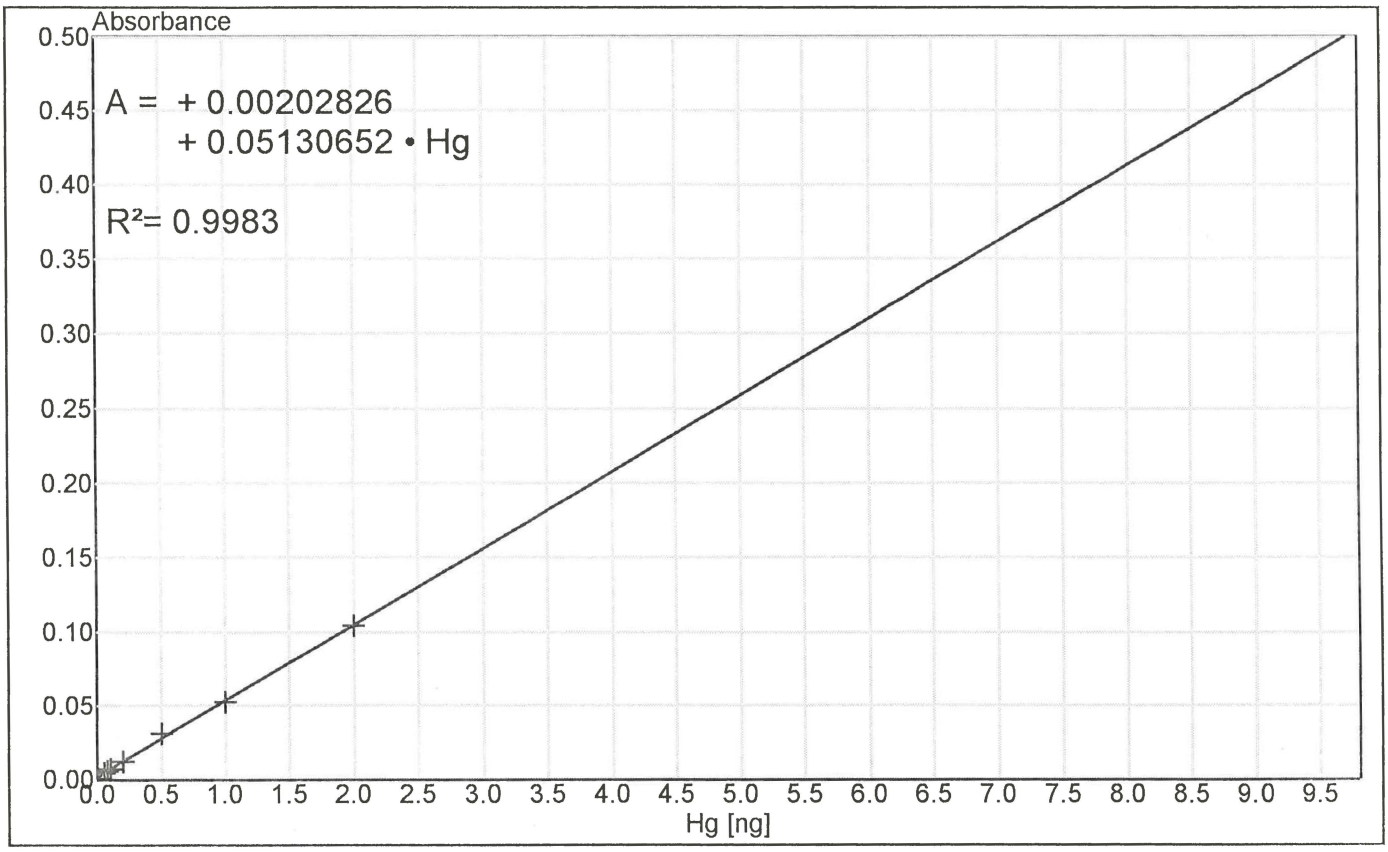
Created by "Service"
20.07.2018 13:19:37

Pos Nr.	Samplename Remark	Amount Date	State Date	Height	Hg [ng]	Concentr. [µg/kg]	Σ	Cal- Factor
1 (1)	0 ng	0.1000 g 20.07.18 11:21	✔ C 20.07.18 11:30	0.0004	0.0000	0.0001		1.0000
2 (2)	0.05 ng	0.0500 g 20.07.18 11:23	✔ C 20.07.18 11:38	0.0043	0.0500	1.0000		1.0000
3 (3)	0.075 ng	0.0750 g 20.07.18 11:24	✔ C 20.07.18 11:49	0.0057	0.0750	1.0000		1.0000
4 (4)	0.100 ng	0.1000 g 20.07.18 11:24	✔ C 20.07.18 12:00	0.0072	0.1000	1.0000		1.0000
5 (5)	0.200 ng	0.2000 g 20.07.18 11:24	✔ C 20.07.18 12:12	0.0121	0.2000	1.0000		1.0000
6 (6)	0.500 ng	0.5000 g 20.07.18 11:25	✔ C 20.07.18 12:23	0.0311	0.5000	1.0000		1.0000
7 (7)	1.00 ng	0.1000 g 20.07.18 11:25	✔ C 20.07.18 12:34	0.0525	1.0000	10.0000		1.0000
8 (8)	2.00 ng	0.2000 g 20.07.18 11:25	✔ C 20.07.18 12:45	0.1042	2.0000	10.0000		1.0000
9 (9)	mb	0.2500 g 20.07.18 12:57	✔ 20.07.18 12:58	0.0008	0.0000	0.0000		1.0000
10 (10)	SEQ-ICV1	0.1000 g 20.07.18 13:09	✔ 20.07.18 13:10	0.0567	1.0647	10.6465		1.0000

Calibration data "DMA80_01_ICAL_LLAQ_ 072018 linear.c80"

Created by "" at 20.07.2018 13:59:30

Cell 0



Nr.		Hg [ng]	Height ^	Error ⊿E [%]	Date	Remarks
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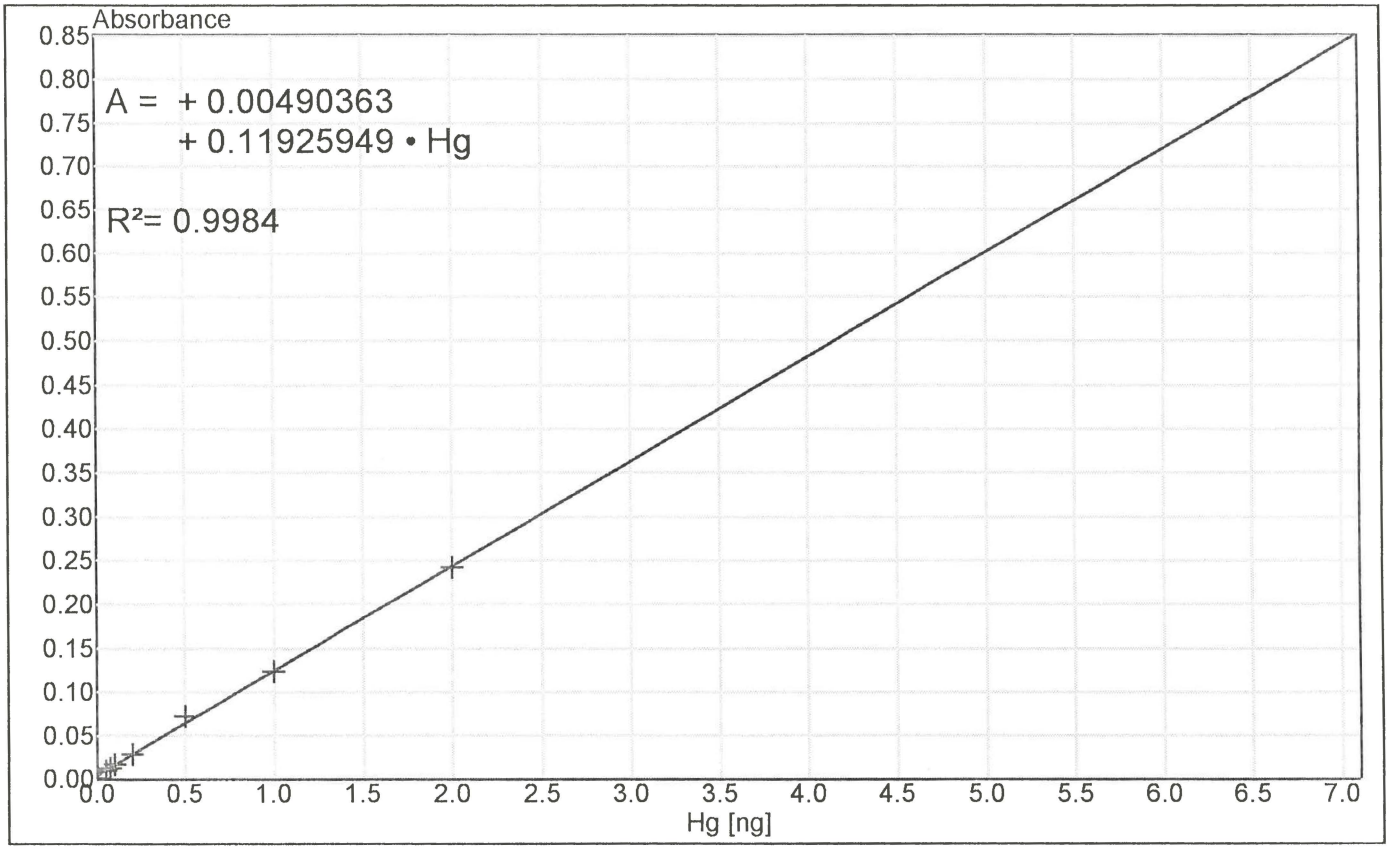
3	✓	0.0750	0.0057	-0.0002	20.07.2018 12:01:07	
4	✓	0.1000	0.0072	0.0001	20.07.2018 12:12:18	
5	✓	0.2000	0.0121	-0.0002	20.07.2018 12:23:29	
6	✓	0.5000	0.0311	0.0034	20.07.2018 12:34:43	
7	✓	1.0000	0.0525	-0.0008	20.07.2018 12:45:56	
8	✓	2.0000	0.1042	-0.0004	20.07.2018 12:57:07	

Calibration data "DMA80_01_ICAL_LLAQ_ 072018 linear.c80"

Created by "" at 20.07.2018 13:59:30

Cell 1



Nr.		Hg [ng]	Height ^	Error ⊿E [%]	Date	Remarks
1	✓	0.0000	0.0008	-0.0041	20.07.2018 11:38:58	
2	✓	0.0500	0.0101	-0.0008	20.07.2018 11:49:57	
3	✓	0.0750	0.0130	-0.0008	20.07.2018 12:01:07	
4	✓	0.1000	0.0170	0.0002	20.07.2018 12:12:18	
5	✓	0.2000	0.0290	0.0002	20.07.2018 12:23:29	
6	✓	0.5000	0.0721	0.0076	20.07.2018 12:34:43	
7	✓	1.0000	0.1234	-0.0008	20.07.2018 12:45:56	
8	✓	2.0000	0.2419	-0.0015	20.07.2018 12:57:07	

INITIALCALIBRATION VERIFICATION (Hg)

Lab Name: York Analytical Laboratories, Inc.

I Cal Source: Inorganic Ventures

Sequence: QBHgDMA80-01 072018Aq ICAL.d80

C Cal Source: Inorganic Ventures

Concentration units: ug/L

Analyte	TRUE	ICV FOUND	%R(1)
Mercury	10.0000	10.6465	106.5

(1) Control Limits Hg 80-120 %

INITIAL CALIBRATION BLANK

Lab Name: York Analytical Laboratories, Inc

Preparation Blank Matrix: Aqueous

Prep Blank ID: N/A

Prep. Blank Conc. Units: ug/L

Sequence ID: QBHgDMA80-01 072018Aq ICAL.d80

Initial Calibration Blanks (ug/L)		
Analyte	ICB	C
Mercury	0.0001	U

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LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

The Chazen Companies
21 Fox Street
Poughkeepsie, NY 12601
ATTN: Mr. Eric Orlowski
eorlowski@chazencompanies.com

January 7, 2020

SUBJECT: Former Utility Platers/Kingston Diagnostics, Data Usability Report

Dear Mr. Orlowski,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on November 11, 2019. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #46452:

SDG #	Fraction
19J1295	Volatiles, Metals

The data validation was performed under Category B guidelines using quality control summaries provided by the laboratory. The analyses were validated using the following documents, as applicable to each method:

- USEPA Region 2 Standard Operating Procedure for Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry, SW-Method 8260B and 8260C, SOP HW-24, Revision 4; October 2014
- USEPA Region 2 Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program, SOP HW-3a/b/c, Revision 1; September 2016
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, EPA 540-R-2017-002; January 2017
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, EPA 540-R-2017-001; January 2017
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,

Christina Rink

Christina Rink
crink@lab-data.com
Project Manager/Senior Chemist

583 pages-ADV

Attachment 1

EDD Category B

LDC#46452 (Chazen Companies, Poughkeepsie, NY / Former Utility Platers/Kingston Diagnostics)

LDC	SDG#	DATE REC'D	(3) DATE DUE	VOA (8260C)		Metals (6010D /7473)		D.Metal (6010D /7473)		Metals (6020B)		Diss. Metals (6020B)																									
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	19J1295	11/11/19	12/05/19	5	0	4	0	2	0	4	0	2	0																						
Total	J/CR			5	0	4	0	2	0	4	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17

Shaded cells indicate Category B validation (all other cells are Category A validation). These sample counts do not include MS/MSD, and DUPs

L:\Chazen\Kingston\46452ST.wpd

Site: Former Utility Platers/Kingston Diagnostics
Laboratory: York Analytical Laboratories, Inc.
Report No.: 19J1295
Reviewer: Felomina Tanguilig and Christina Rink/Laboratory Data Consultants for Chazen Companies – Poughkeepsie, NY
Date: December 3, 2019

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
KC-MW-01 1019	19J1295-01	VOC
KC-MW-02 1019	19J1295-02	VOC
KC-MW-05 1019	19J1295-03	VOC
KC-FD-01 1019	19J1295-04	VOC
KC-TB-01 1019	19J1295-05	VOC

Associated QC Samples(s):
Field/Trip Blanks: KC-TB-01 1019
Field Duplicate pair: KC-MW-01 1019 and KC-FD-01 1019

The above-listed water samples were collected on October 29, 2019 and were analyzed for volatile organic compounds (VOC) by SW-846 method 8260C. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-Method 8260B and 8260C,* SOP HW-24, Revision 4 (October 2014) and the USEPA *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review,* EPA 540-R-2017-002 (January 2017), modified as necessary to accommodate the non-CLP methodologies used.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

Initial Calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Instrument ID	Compound	RRF (Limits)	Associated Samples		Validation Action
10/08/19	ICAL-VOA6	1,4-Dioxane	0.002332943 (≥0.005)	KC-MW-01 1019 KC-MW-02 1019 KC-MW-05 1019 KC-FD-01 1019 KC-TB-01 1019	+	UJ nondetects

Date	Instrument ID	Compound	ICV %D	Associated Samples		Validation Action
10/08/19	ICV-VOA6	1,2,3-Trichlorobenzene	37.8	KC-MW-01 1019	SS	UJ nondetects
		4-Methyl-2-pentanone	32.6	KC-MW-02 1019	SS	UJ nondetects
		Bromomethane	43.5	KC-MW-05 1019	SS	UJ nondetects
		Dichlorodifluoromethane	55.5	KC-FD-01 1019	SS	UJ nondetects
		Hexachlorobutadiene	30.4	KC-TB-01 1019	SS	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 1,4-dioxane results were estimated due to response factor exceedance. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

The 1,2,3-trichlorobenzene, 4-methyl-2-pentanone, bromomethane, dichlorodifluoromethane, and hexachlorobutadiene results were estimated due to second source calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Instrument ID	Compound	CC %D	Associated Samples		Validation Action
10/31/19	CCV-VOA6	1,2,3-Trichlorobenzene	35.5	KC-MW-01 1019	XX	J detects/UJ nondetects
		2-Butanone	45.0	KC-MW-02 1019	XX	J detects/UJ nondetects
		2-Hexanone	21.9	KC-MW-05 1019	XX	J detects/UJ nondetects
		Acetone	68.1	KC-FD-01 1019	XX	J detects/UJ nondetects
		Bromomethane	87.6	KC-TB-01 1019	XX	J detects/UJ nondetects
		Chloromethane	20.4		XX	J detects/UJ nondetects
		Dichlorodifluoromethane	20.4		XX	J detects/UJ nondetects
		Methyl cyclohexane	25.3		XX	J detects/UJ nondetects

Date	Instrument ID	Compound	RRF (Limits)	Associated Samples		Validation Action
10/31/19	CCV-VOA6	1,4-Dioxane	0.002533986 (≥0.005)	KC-MW-01 1019 KC-MW-02 1019 KC-MW-05 1019 KC-FD-01 1019 KC-TB-01 1019	+	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 1,2,3-trichlorobenzene, 2-butanone, 2-hexanone, acetone, bromomethane, chloromethane, dichlorodifluoromethane, and methyl cyclohexane results were estimated due to continuing calibration exceedances. The bias cannot be determined. The results can be used for project objectives as estimated values (J) or nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

The 1,4-dioxane results were estimated due to response factor exceedance. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Blanks

Contamination was detected in the associated VOC method blank sample. The presence of blank contamination indicates that false positives may exist for these compounds in the associated samples. Action Levels (ALs) were established at <2x RL (for common contaminants) and <RL (for other contaminants) of the concentrations detected. The following table summarizes the contamination detected.

Blank ID	Compound	Level Detected	Action Level	Associated Samples
BJ91821-BLK1	1,2,3-Trichlorobenzene	0.50 ug/L	RL	KC-MW-01 1019
	1,2,4-Trichlorobenzene	0.26 ug/L	RL	KC-MW-02 1019
	Hexachlorobutadiene	0.32 ug/L	RL	KC-MW-05 1019
				KC-FD-01 1019
				KC-TB-01 1019

Sample results were qualified as follows:

- If sample concentration was < the reporting limit (RL) and ≤ the Action Level, qualify the result as a nondetect (U) at the RL.
- If sample concentration was > the RL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.
- If the sample concentration was > the RL and > the Action Level, qualification of the data was not required.

No samples were qualified since the associated sample results were nondetect.

No positive results were found in the trip blank sample KC-TB-01 1019 for VOC analysis.

Surrogate Recoveries

All criteria were met.

MS/MSD Results

MS/MSD analyses were not associated with this samples set. Validation action was not required on this basis.

LCS Results

The following table lists the LCS/LCSD percent recoveries (%R) outside of control limits in the VOC analysis and the resulting validation actions.

LCS ID	Compound	LCS %R (Limits)	LCS/D %R (Limits)	Affected Sample	Validation Action
BJ91821LCS/LCSD	Acrolein	199 (10-153)	178 (10-153)	KC-MW-01 1019	None
				KC-MW-02 1019	
				KC-MW-05 1019	
				KC-FD-01 1019	
				KC-TB-01 1019	

LCS ID	Compound	LCS %R (Limits)	LCS/D %R (Limits)	Affected Sample	Validation Action
BJ91821LCS/LCSD	Bromomethane	23.2 (73-168)	22.7 (73-168)	KC-MW-01 1019	J detects/UJ nondetects
	1,2,3-Trichlorobenzene	-	74.7 (76-136)	KC-MW-02 1019	J detects/UJ nondetects
	Methyl cyclohexane	-	64.2 (72-143)	KC-MW-05 1019	J detects/UJ nondetects
	tert-Butylbenzene	-	69.0 (77-138)	KC-FD-01 1019	J detects/UJ nondetects
	Tetrachloroethene	-	79.2 (82-131)	KC-TB-01 1019	J detects/UJ nondetects

- Within control limits

Validation action was not required for acrolein due to high LCS/LCSD percent recoveries as positive results only are affected and this compound was not detected in the associated samples.

The bromomethane, 1,2,3-trichlorobenzene, methyl cyclohexane, tert-butylbenzene, and tetrachloroethene results may be biased low due to low LCS/LCSD percent recoveries. The results can be used for project objectives as estimated values (J) or nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

The following table lists the LCS/LCSD relative percent differences (RPD) outside of control limits in the VOC analysis and the resulting validation actions.

LCS ID	Compound	RPD (Limits)	Affected Sample	Validation Action
BJ91821LCS/LCSD	Dichlorodifluoromethane	34.5 (≤30)	KC-MW-01 1019 KC-MW-02 1019 KC-MW-05 1019 KC-FD-01 1019 KC-TB-01 1019	None

Validation action was not required for dichlorodifluoromethane due to LCS/LCSD relative percent difference exceedance as positive results only are affected and this compound was not detected in the associated samples.

Internal Standards

All criteria were met.

Field Duplicate Results

Samples KC-MW-01 1019 and KC-FD-01 1019 were submitted as the field duplicate pair with this sample group. The following table summarizes the concentrations.

Compound	Concentration (ug/L)		RPD
	KC-MW-01 1019	KC-FD-01 1019	
1,1,2-Trichloroethane	0.47	0.53	12
1,1-Dichloroethane	18	17	6
1,1-Dichloroethene	91	92	1
Acetone	3.2	2.0U	Not comparable
Benzene	0.88	0.89	1
Carbon disulfide	0.24	0.24	0
Chloromethane	0.29	0.34	16

Compound	Concentration (ug/L)		RPD
	KC-MW-01 1019	KC-FD-01 1019	
Toluene	1.5	1.4	7
trans-1,2-Dichloroethene	890	810	9
Vinyl chloride	4600	4000	14
cis-1,2-Dichloroethene	32000	35000	9
Trichloroethene	26000	28000	7
tert-Butyl alcohol	1.0U	7.3	Not comparable
Tetrachloroethene	0.50U	0.23	Not comparable

Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the VOC analysis. These results were qualified as estimated (J) by the laboratory.

Due to high target compound levels or difficult sample matrix, select samples were analyzed at dilutions. The following table lists the sample dilutions which were performed and the results reported. RLs were elevated accordingly.

Sample	VOC Analysis Reported
KC-MW-01 1019 KC-MW-02 1019	100-fold dilution due to high analyte levels for trans-1,2-dichloroethene and vinyl chloride 1000-fold dilution due to high analyte levels for cis-1,2-dichloroethene and trichloroethene

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

LDC #: 46452A1a
SDG #: 19J1295
Laboratory: York Analytical Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
Category B

Date: 12/1/19
Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	SW/SW	%RSD ≤ 20, r² ICV ≤ 30
IV.	Continuing calibration	SW	CCV ≤ 20
V.	Laboratory Blanks	SW	
VI.	Field blanks	ND	TB = 5
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	SW	LCS ID
X.	Field duplicates	SW	D = 1,4
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	Results < RL > MDL = Jdw
XIII.	Target compound identification	A	
XIV.	System performance	A	
XV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	KC-MW-01 ~~1118~~ 1019	19J1295 ~~18K0078~~-01	Water	10/29/19 ~~11/01/18~~
2	KC-MW-02 ~~1118~~	~~18K0078~~-02	Water	11/01/18
3	KC-MW-05 ~~1118~~	~~18K0078~~-03	Water	11/01/18
4	KC-FD-01 ~~1118~~	~~18K0078~~-04	Water	11/01/18
5	KC-TB-01 ~~1118~~	~~18K0078~~-05	Water	11/01/18
6				
7				
8				

2 = PPP, C
PPP, C = 100X; QQQ, S = 1000X
PPP, C = 100X; QQQ, S = 1000X

Notes:

1	BJ 91821-BLK1						
2	BJ 91944-BLK1						

LDC #: 46452 A1a

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FT
2nd Reviewer:

Method: Volatiles (EPA SW 846 Method 8260C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% and relative response factors (RRF) within method criteria?	✓	✓		
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 30%?		✓		
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?		✓		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?	✓			
VI. Field blanks				
Were field blanks were identified in this SDG?	✓			
Were target compounds detected in the field blanks?		✓		
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	

LDC #: 46452 A1a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
IX. Laboratory control samples				
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
X. Field duplicates				
Were field duplicate pairs identified in this SDG?	✓			
Were target compounds detected in the field duplicates?	✓			
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO.1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methyl cyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

LDC #: 46452A1a

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Page: 1 of 1
Reviewer: FT
2nd Reviewer: Q

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
- Y N N/A Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?
- Y N N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation?________
- Y N N/A Did the initial calibration meet the acceptance criteria?
- Y N N/A Were all %RSDs and RRFs within the validation criteria of ≤20 %RSD and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %RSD (Limit: 20%)	Finding RRF (Limit: >0.05)	Associated Samples	Qualifications
	10/8/19	ICAL-VOA6	HHHH		0.00233294 3 (J0.005)	1→5, BJ91821-BLK1	J/UJ/A (ND)

INICAL.wpd

LDC #: 46452A1a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was an initial calibration verification standard analyzed after each ICAL for each instrument?

Y N N/A Were all %D within the validation criteria of ≤30 %D?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤30.0%)	Associated Samples	Qualifications
	10/8/19 9:10PM	ICV-VOA6	NNN	37.8	1→5, BJ91821-BLK1	J/UJ/Δ ND
			Y	32.6		
			B	43.5		
			JJ	55.5		
			LLL	30.4		

LDC #: 46452A1a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
Y (N) N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y (N) N/A Were all %D and RRFs within the validation criteria of ≤20 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	10/31/19 2201	CCV - VOA 6	NNN	35.5		1-7 5,	J/UJ/A ND+DET
			M	45.0		BJ9182-BLK1	
			Z	21.9			
			F	68.1			
			B	87.6			
			A	20.4			
			JJ	20.4			
			TTTT	25.3			
			HHHH		0.00253398 6 (20.005)		

LDC #: 46452A1a

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?
Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?
Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 11/01/19
Conc. units: ug/L Associated Samples: 1→5 (ND)

Compound	Blank ID	Sample Identification								
	BJ91821-BLK1									
NNN	0.50									
KKK	0.26									
LLL	0.32									

Blank analysis date:
Conc. units: Associated Samples:

Compound	Blank ID	Sample Identification								

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 46452A/a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
Y N N/A Was a LCS required?
Y N N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	BJ91821 LCSP	FFFF	199 (10-153)	178 (10-153)	( )	1→5, BJ91821-BLK1	J(+) / P NP
		B	23.2 (43-168)	22.7 (43-168)	( )		J / UJ / P ND+Det
		NNN	( )	74.7 (76-136)	( )		
		TTTT	( )	64.2 (72-143)	( )		
		CCC	( )	69.0 (77-138)	( )		
		ΔΔ	( )	79.2 (82-131)	( )		
		JJ	( )	( )	34.5 (30)		J(+) / P NP
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
	~~BJ91944 LCSD~~	~~NNN~~	~~71.2 (76-136)~~	( )	( )		
		KKK	70.2 (76-137)	F1 ( )	( )		
		PP	131 (77-128)	( )	( )		
		SSSS	54.5 (63-149)	56.7 (63-149)	( )		
		JJ	145 (44-144)	149 (44-144)	( )		
		LLL	64.7 (67-146)	( )	( )		
		G	( )	( )	32.0 (30)		
		~~RRRR~~	( )	( )	32.3 (30)		
		E	( )	( )	32.7 (30)		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC#: 46452A1a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GCMS VOA (EPA Method 8260C)

Compound	Concentration (ug/L)		RPD
	1	4	
U	0.47	0.53	12
I	18	17	6
H	91	92	1
F	3.2	2.0U	NC
V	0.88	0.89	1
G	0.24	0.24	0
A	0.29	0.34	16
CC	1.5	1.4	7
PPP	890	810	9
C	4600	4000	14
QQQ	32000	35000	9
S	26000	28000	7
ZZZ	1.0U	7.3	NC
AA	0.50U	0.23	NC

LDC #: 46452A1a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT
2nd Reviewer:

METHOD: GCMS 8260C

The calibration factors (RRFF), average RRFF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

RRF = (Ax)(Cis)/(Ais)(Cx)
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

Where:
Ax = Area of compound
Cx = Concentration of compound
S = Standard deviation of the RRFs
X = Mean of the RRFs
Ais = Area of associated internal standard
Cis = Concentration of internal Standard

#	Standard ID	Calibration Date	Compound	Reported (RRF 20 PPBstd)	Recalculated (RRF5 20 PPBstd)	Reported AverageRRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
	ICAL	10/8/2019	C	1.6379200	1.6379200	1.3697730	1.3697730	12.13516	12.13516
	VOA6		AA	0.5274189	0.5274189	0.4449759	0.4449759	10.83408	10.83408
			JJJ	1.9856490	1.9856490	1.6306410	1.6306410	12.00295	12.00295

LDC #: 46452A/a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT
2nd Reviewer:

METHOD: GCMS 8260C

The calibration factors (RRFF), average RRFF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

RRF = (Ax)(Cis)/(Ais)(Cx)
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

Where:
Ax = Area of compound
Cx = Concentration of compound
S = Standard deviation of the RRFs
X = Mean of the RRFs
Ais = Area of associated internal standard
Cis = Concentration of internal Standard

#	Standard ID	Calibration Date	Compound	Reported (RRF 20 PPBstd)	Recalculated (RRF5 20 PPBstd)	Reported AverageRRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
	ICAL	10/16/2019	C	1.0136720	1.0136720	1.0055620	1.0055620	7.08231	7.08231
	VOA9								

LDC #: 46452A/a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA Method 8260C)
The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV-VOA6	10/31/19	C (1st internal standard)	1.3697730	1.276067	1.276067	6.8	6.8
	2201		AA (2nd internal standard)	0.449759	0.4475173	0.4475173	0.6	0.6
			JJJ (3rd internal standard)	1.6306410	1.767843	1.767843	8.4	8.4
			(4th internal standard)					
2	CCV-VOA9	11/4/19	C (1st internal standard)	1.005362	1.131362	1.131362	12.5	12.5
	0658		(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
5			(1st internal standard)					
			(2nd internal standard					
			(3rd internal standard)					
			(4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 46452A/1a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #2

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4	10.0	9.87	~~9.87~~ 98.7	98.7	0
Toluene-d8	↓	9.90	~~9.90~~ 99.0	99.0	↓
Bromofluorobenzene	↓	9.32	~~9.32~~ 93.2	93.2	↓

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

LDC #: 46452A1a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA Method 8260C)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration; SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: BJ91821 - LcsID

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	10	10	10 (10.09)	8.6 (8.60)	101	101	86	86	15.9	16
Trichloroethene			9.9 (9.94)	8.4 (8.38)	99.4	99.4	83.8	83.8	17	17
Benzene			12 (11.74)	10 (10.27)	117	117	103	103	13.4	13
Toluene			11 (11.38)	9.7 (9.74)	114	114	97.4	97.4	15.1	16
Chlorobenzene			11 (10.85)	9.4 (9.40)	108	108	94.0	94.0	14.3	14

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 46452A/a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #1, C:

Conc. = $\frac{1250852\ (10.0)(100)}{269626\ (1.005562)}$

= 4613.6 ug/L

#	Sample ID	Compound	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Qualification
	#1	C	4600	4600	

Site: Former Utility Platers/Kingston Diagnostics
Laboratory: York Analytical Laboratories, Inc.
Report No.: 19J1295
Reviewer: An Le and Christina Rink/Laboratory Data Consultants for Chazen Companies – Poughkeepsie, NY
Date: December 3, 2019

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
KC-MW-01 1019	19J1295-01	Metals
KC-MW-02 1019	19J1295-02	Metals
KC-MW-05 1019	19J1295-03	Metals
KC-MW-DUP 1019	19J1295-04	Metals
KC-MW-01 1019F	19J1295-01F	Metals
KC-MW-DUP 1019F	19J1295-04F	Metals

Samples appended with "F" were analyzed for dissolved metals

Associated QC Samples(s):
Field/Trip Blanks: None Associated
Field Duplicate pair: KC-MW-01 1019 and KC-MW-DUP 1019
KC-MW-01 1019F and KC-MW-DUP 1019F

The above-listed water samples were collected on October 29, 2019 and were analyzed for metals by SW-846 methods 6010D/7473. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program,* SOP HW-3a/b/c, Revision 1 (September 2016) and the USEPA *Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review,* EPA 540-R-2017-001 (January 2017), modified as necessary to accommodate the non-CLP methodologies used.

The inorganic data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- Holding Times and Sample Preservation
- Inductively Coupled Plasma/Mass Spectrometry (ICP/MS) Tunes
- Instrument Calibration
- Contract Required Quantitation Limit (CRQL) Standard Recoveries
- Blank Analysis Results
- Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
- Matrix Spike (MS) Results
- Laboratory Duplicate Results
- Laboratory Control Sample (LCS)/Standard Reference Material (SRM) Results
- Internal Standards
- Field Duplicate Results
- Serial Dilution Results
- Detection Limits Results
- Sample Quantitation Results

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

ICP/MS Tune

All criteria were met.

Instrument Calibration

Analytes that did not meet criteria are summarized in the following table.

Date	Calibration ID	Analyte	%R (Limits)	Associated Samples	Validation Action
11/05/19	ICV (10:45)	Antimony	89.3 (90-110)	KC-MW-01 1019 KC-MW-02 1019 KC-MW-05 1019 KC-MW-DUP 1019	J detects/UJ nondetects
11/05/19	CCV2 (11:28)	Selenium	113 (90-110)	KC-MW-01 1019 KC-MW-02 1019 KC-MW-05 1019 KC-MW-DUP 1019	J detects
11/06/19	CCV8 (18:26)	Antimony	114 (90-110)	KC-MW-01 1019F KC-MW-DUP 1019F	J detects
11/06/19	CCV8 (18:26)	Beryllium Cadmium Lead	119 (90-110) 113 (90-110) 111 (90-110)	KC-MW-01 1019F KC-MW-DUP 1019F	None None None
11/06/19	CCV9 (19:30)	Beryllium	121 (90-110)	KC-MW-01 1019F KC-MW-DUP 1019F	None

The antimony results may be biased low due to low ICV percent recovery. The results can be used for project objectives as estimated values (J) or nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

The selenium and antimony results may be biased high due to high CCV percent recoveries. The results can be used for project objectives as estimated values (J) which may have a minor impact on the data usability.

Validation action was not required for beryllium, cadmium, and lead due to high CCV percent recoveries as positive results only are affected and these analytes were not detected in the associated samples.

CRQL Standard Recoveries

Although the selenium and zinc CRQL standards were outside validation limits, no action was taken since the affected samples are greater than two times the reporting limit (RL).

Blank Results

Analytes were detected below the reporting limits in the laboratory blank samples. The following table summarizes the contamination and validation actions taken.

Blank ID	Analyte	Level Detected	Action Level	Associated Samples
ICB/CCB	Selenium	1.20 ug/L	1.2 ug/L	KC-MW-01 1019 KC-MW-02 1019 KC-MW-05 1019 KC-MW-DUP 1019
ICB/CCB	Selenium	1.45 ug/L	1.45 ug/L	KC-MW-01 1019F KC-MW-DUP 1019F

Blank Actions for analytes detected below the reporting limit(RL).
If the sample result is < RL, report the result as nondetect (U) at the RL.
If the sample result is > RL or nondetect, no action is required.
Blank Actions for analytes detected above the reporting limit or RL.
If the sample result is < RL and <action level; report the result as nondetect (U) at the RL.
If the sample result is > RL and < action level; report the result as nondetect (U) at the reported value.
If the sample result is > action level or nondetect, no action is required.

No samples were qualified since the associated sample results were nondetect or greater than the action level.

A field blank was not associated with this sample set. Validation action was not required on this basis.

ICP ICS Results

Analytes were within control limits in the ICSA and ICSAB analyses.

MS/MSD Results

MS/MSD analyses were not associated with this sample set. Validation action was not required on this basis.

Laboratory Duplicate Results

Laboratory duplicates were not associated with this sample set. Validation action was not required on this basis.

LCS/SRM Results

The following table lists the LCS percent recoveries (%R) outside of control limits in the metals analyses and the resulting validation actions.

LCS ID	Analyte	LCS %R (Limits)	Affected Sample	Validation Action
LCS	Zinc	73.1 (80-120)	KC-MW-01 1019F KC-MW-DUP 1019F	J detects

The zinc results may be biased low due to low LCS percent recovery. The results can be used for project objectives as estimated values (J) which may have a minor impact on the data usability.

Internal Standards

All criteria were met.

Field Duplicate Results

Samples KC-MW-01 1019 and KC-MW-DUP 1019 and samples KC-MW-01 1019F and KC-MW-DUP 1019F were submitted as the field duplicate pair with this sample group. The following table summarizes the concentrations.

Analyte	Concentration (ug/L)		RPD
	KC-MW-01 1019	KC-MW-DUP 1019	
Antimony	1.14	2.55	76
Arsenic	45.2	448	163
Beryllium	0.656	1.13	53
Cadmium	11.6	302	185
Chromium	42.5	1510	189
Copper	113	939	157
Lead	61.3	251	121
Nickel	373	2670	151
Selenium	112	339	101
Thallium	1.11U	2.74	Not comparable
Zinc	196	5500	186

Analyte	Concentration (ug/L)		RPD
	KC-MW-01 1019F	KC-MW-DUP 1019F	
Antimony	1.93	1.88	3
Arsenic	25.5	23.7	7
Copper	3.69	1.11U	Not comparable
Nickel	338	315	7
Selenium	5.93	5.72	4
Zinc	12.7	13.9	9

Serial Dilution Results

A serial dilution analysis was not associated with this sample set. Validation action was not required on this basis.

Detection Limits Results

No results were reported below the reporting limit (RL) and above the method detection limit (MDL) in the metals analyses.

Due to high target analyte levels or difficult sample matrix, select samples were analyzed at dilutions. The following table lists the sample dilutions which were performed and the results reported. RLs were elevated accordingly.

Sample	Metal Analyses Reported
KC-MW-DUP 1019	10-fold dilution due to high analyte level for chromium, nickel, and zinc

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

LDC #: 46452A4a
SDG #: 19J1295
Laboratory: York Analytical Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET
Category B

Date: 12/2/19
Page: 1 of 1
Reviewer: ATL
2nd Reviewer:

METHOD: Metals (EPA SW 846 Method 6010D/6020B/7473)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	SW	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Laboratory Blanks	SW	
VI.	Field Blanks	N	
VII.	Matrix Spike/Matrix Spike Duplicates	N	C.S
VIII.	Duplicate sample analysis	N	
IX.	Serial Dilution	N	
X.	Laboratory control samples	SW	LCS/SRM
XI.	Field Duplicates	SW	(4,1),(5,8)
XII.	Internal Standard (ICP-MS)		
XIII.	Sample Result Verification	A	
XIV.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

Samples appended with "F" were analyzed as dissolved

	Client ID	Lab ID	Matrix	Date
1	KC-MW-01 1019	19J1295-01	Water	10/29/19
2	KC-MW-02 1019	19J1295-02	Water	10/29/19
3	KC-MW-05 1019	19J1295-03	Water	10/29/19
4	KC-MW-DUP 1019 (10X-Cr, Ni, Zn - high target)	19J1295-04	Water	10/29/19
5	KC-MW-01 1019F	19J1295-01F	Water	10/29/19
6	~~KC-MW-02 1019F~~	~~19J1295-02F~~	~~Water~~	~~10/29/19~~
7	~~KC-MW-05 1019F~~	~~19J1295-03F~~	~~Water~~	~~10/29/19~~
8	KC-MW-DUP 1019F	19J1295-04F	Water	10/29/19
9				
10				
11				
12				

Notes:

LDC #: 46452A4a

VALIDATION FINDINGS CHECKLIST

Reviewer: ATL
2nd Reviewer:

Method: Metals (EPA SW 846 Method 6010/6020/7000)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution ≤5%?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?		✓		
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low standard checks within 70-130%	✓			
Were all initial calibration correlation coefficients within limits as specified by the method?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.		✓		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.			✓	
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.			✓	
VII. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?		✓		
Were all percent differences (%Ds) < 10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XII. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
XIII. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 46452A4a

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: ATL
2nd reviewer:

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-5,8	W	Al, [✓ Sb], [✓ As], Ba, [✓ Be], [✓ Cd], Ca, [✓ Cr], Co, [✓ Cu], Fe, [✓ Pb], Mg, Mn, [✓ Hg], [✓ Ni], K, [✓ Se], [✓ Ag], Na, [✓ Tl], V, [✓ Zn], Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___

Analysis Method

ICP	1-5,8	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, [✓ Ag], Na, Tl, V, Zn, Mo, B, Sn, Ti, ___
ICP-MS	1-5,8	Al, [✓ Sb], [✓ As], Ba, [✓ Be], [✓ Cd], Ca, [✓ Cr], Co, [✓ Cu], Fe, [✓ Pb], Mg, Mn, Hg, [✓ Ni], K, [✓ Se], Ag, Na, [✓ Tl], V, [✓ Zn], Mo, B, Sn, Ti, ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___

Comments: Mercury by CVAA if performed

LDC #: 46452A4a

VALIDATION FINDINGS WORKSHEET
Calibration

Reviewer: ATL
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all instruments calibrated daily, each set-up time, and were the proper number of standards used?

Y N N/A Were all initial and continuing calibration verification percent recoveries (%R) within the control limits of 90-110% for all analytes except mercury (80-120%) and cyanide (85-115%)?

LEVEL IV ONLY:

Y N N/A Was a midrange cyanide standard distilled?

Y N N/A Are all correlation coefficients ≥0.995?

Y N N/A Were recalculated results acceptable? See Level IV Initial and Continuing Calibration Recalculation Worksheet for recalculations.

#	Date	Calibration ID	Analyte	%R	Associated Samples	Qualification of Data
	11/05/19	ICV (10:45)	Sb	89.3 (90-110)	1 to 4	J/UJ/P (non-detect/detect)
		CCV2 (11:28)	Se	113 (90-110)	1 to 4	Jdet/P (all detect)
		CRL (11:07)	Se	239 (70-130)	1 to 4	no qual (sample > 2x RL)
		CRL (11:07)	Zn	280 (70-130)	1 to 3	no qual (sample > 2x RL)
	11/06/19	CRL (11:57)	Zn	234 (70-130)	4	no qual (sample > 2x RL)
		CCV8 (18:26)	Sb	114 (90-110)	5, 8	Jdet/P (all detect)
		CCV8 (18:26)	Be	119 (90-110)	5, 8	Jdet/P (all non-detect)
		CCV8 (18:26)	Cd	113 (90-110)	5, 8	Jdet/P (all non-detect)
		CCV8 (18:26)	Pb	111 (90-110)	5, 8	Jdet/P (all non-detect)
		CCV9 (19:30)	Be	121 (90-110)	5, 8	Jdet/P (all non-detect)
		CRL	Zn	49.5 (70-130)	5, 8	no qual (sample > 2x RL)

Comments:

LDC #: 46452A4a

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: ATL
2nd Reviewer:

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: NA

Sample Concentration units, unless otherwise noted: ug/L Associated Samples: 1 to 4

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (mg/L)	Maximum ICB/CCB[a] (ug/L)	Action Level	~~2~~	3	no qual						
Se			1.20	~~12~~ 1.2	~~3.21~~	~~3.29~~ a							

Sample Concentration units, unless otherwise noted: ug/L Associated Samples: 5,8

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (mg/L)	Maximum ICB/CCB[a] (ug/L)	Action Level	~~5~~	8	no qual						
Se			1.45	~~14.5~~ 1.45	5.93	~~5.72~~ a							

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 46452A4a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Reviewer: ATL
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010B/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a laboratory control sample (LCS) analyzed for each matrix in this SDG?

Y (N) N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	LCS/LCSD ID	Matrix	Analyte	LCS %R (limits)	LCSD %R (limits)	RPD (limits)	Associated Samples	Qualifications
		LCS	W	Zn	73.1 (80-120)			5,8	J/UJ/P (all detect)

Comments:

LDC#: 46452A4a

VALIDATION FINDINGS WORKSHEET

Field Duplicates

Reviewer: ATL

2nd Reviewer:

METHOD: Metals (EPA Method 6010/6020/7000/200.7/200.8)

Analyte	Concentration (ug/L)		RPD	
	1	4		
Antimony	1.14	2.55	76	
Arsenic	45.2	448	163	
Beryllium	0.656	1.13	53	
Cadmium	11.6	302	185	
Chromium	42.5	1510	189	
Copper	113	939	157	
Lead	61.3	251	121	
Nickel	373	2670	151	
Selenium	112	339	101	
Thallium	1.11 U	2.74	85	NC
Zinc	196	5500	186	

V:\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2019\46452A4a.wpd

Analyte	Concentration (ug/L)		RPD	
	5	8		
Antimony	1.93	1.88	3	
Arsenic	25.5	23.7	7	
Copper	3.69	1.11 U	108	NC
Nickel	338	315	7	
Selenium	5.93	5.72	4	
Zinc	12.7	13.9	9	

DC #: 46452A4a

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: ATL
2nd Reviewer:

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
CRL1	ICP (Low Level calibration) 11/5 @ 14:02	Ag	0.0095 mg/L	0.0100 mg/L	95.0	95.3	Y
CRL1	ICP/MS (Low Level calibration) 11/5 @ 11:07	Be	0.955566	1.00	95.6	95.6	Y
ICV	ICP (Initial calibration) 11/5 @ 13:52	Ag	1.2101 mg/L	1.25 mg/L	96.8	96.8	Y
ICV	ICP/MS (Initial calibration) 11/6 @ 11:36	Ni	49.178	50.00	98.4	98.4	Y
ICV	CVAA (Initial calibration) 7/20 @ 13:09	Hg	10.6465	10.000	106.5	106.5	Y
CCV1	ICP (Continuing calibration) 11/5 @ 22:02	Ag	1.2012 mg/L	1.25 mg/L	96.1	96.1	Y
CCV2	ICP/MS (Continuing calibration) 11/5 @ 11:28	Be	56.374	50.000	113	113	Y
CCV2	CVAA (Continuing calibration) 11/6 @ 13:01	Hg	0.0098172	0.0100 mg/L	98.2	98.2	Y

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis	23.985	24.025	± 0.1 AMU	NA	Y
	%RSD	114.9	145275.8	≤ 5% RSD	0.5	Y

Comments:

LDC #: 46452A4a

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: ATL
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	µg/L Found / S / I (units)	µg/L True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
IFB1	ICP interference check 11/5 @ 11:23	Cu	20.694	20.000	103	103	Y
LCS	Laboratory control sample 11/6 @ 18:42	Zn	36.527	50.000	73.1	73.1	Y
	Matrix spike		(SSR-SR)				
	Duplicate						
	Post digestion spike						
	ICP serial dilution						

Comments:

LDC #: 46452A4a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: ATL
2nd reviewer: C

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for Cr were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

Recalculation: #4

$135.481735 \times 10 \times \frac{50}{45} = 1505.3526 \approx 1510$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

#	Sample ID	Analyte	Reported Concentration (µg/L)	Calculated Concentration (µg/L)	Acceptable (Y/N)
	1	Sb (11/5 @ 11:55)	1.14	1.14	Y
	2	Cd (11/5 @ 12:00)	1.04	1.04	
	3	Ni (11/5 @ 12:05)	3.52	3.52	
	4	Cr (11/6 @ 12:29)	1510	1510	
	5	As (11/6 @ 18:47)	25.5	25.5	
	8	Zn (11/6 @ 18:53)	13.9	13.9	
	1->5,8	Ag	ND mg/L	ND mg/L	
	1->5,8	Hg	ND mg/L	ND mg/L	↓

Note:

Former Utility Platers/Kingston Diagnostics - LDC# 46452

SDG: 19J1295

Analytical Method 6010B AND 6020

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-01 1019	19J1295-01	Selenium	11/5/2019	112	Y	Y		J	J	1.11	1.11	ug/l
KC-MW-01 1019	19J1295-01	Thallium	11/5/2019		Y	N	U		U	1.11	1.11	ug/l
KC-MW-01 1019	19J1295-01	Lead	11/5/2019	61.3	Y	Y				1.11	1.11	ug/l
KC-MW-01 1019	19J1295-01	Nickel	11/5/2019	373	Y	Y				1.11	1.11	ug/l
KC-MW-01 1019	19J1295-01	Arsenic	11/5/2019	45.2	Y	Y				1.11	1.11	ug/l
KC-MW-01 1019	19J1295-01	Beryllium	11/5/2019	0.656	Y	Y				0.333	0.333	ug/l
KC-MW-01 1019	19J1295-01	Cadmium	11/5/2019	11.6	Y	Y				0.556	0.556	ug/l
KC-MW-01 1019	19J1295-01	Chromium, Total	11/5/2019	42.5	Y	Y				1.11	1.11	ug/l
KC-MW-01 1019	19J1295-01	Copper	11/5/2019	113	Y	Y				1.11	1.11	ug/l
KC-MW-01 1019	19J1295-01	Zinc	11/5/2019	196	Y	Y				1.11	1.11	ug/l
KC-MW-01 1019	19J1295-01	Antimony	11/5/2019	1.14	Y	Y		J	J	1.11	1.11	ug/l
KC-MW-01 1019	19J1295-01	Nickel	11/6/2019	338	Y	Y				1.11	1.11	ug/l
KC-MW-01 1019	19J1295-01	Cadmium	11/6/2019		Y	N	U		U	0.556	0.556	ug/l
KC-MW-01 1019	19J1295-01	Beryllium	11/6/2019		Y	N	U		U	0.333	0.333	ug/l
KC-MW-01 1019	19J1295-01	Thallium	11/6/2019		Y	N	U		U	1.11	1.11	ug/l
KC-MW-01 1019	19J1295-01	Lead	11/6/2019		Y	N	U		U	1.11	1.11	ug/l
KC-MW-01 1019	19J1295-01	Antimony	11/6/2019	1.93	Y	Y		J	J	1.11	1.11	ug/l
KC-MW-01 1019	19J1295-01	Chromium, Total	11/6/2019		Y	N	U		U	1.11	1.11	ug/l
KC-MW-01 1019	19J1295-01	Copper	11/6/2019	3.69	Y	Y				1.11	1.11	ug/l
KC-MW-01 1019	19J1295-01	Selenium	11/6/2019	5.93	Y	Y				1.11	1.11	ug/l
KC-MW-01 1019	19J1295-01	Arsenic	11/6/2019	25.5	Y	Y				1.11	1.11	ug/l
KC-MW-01 1019	19J1295-01	Zinc	11/6/2019	12.7	Y	Y		J	J	1.11	1.11	ug/l
KC-MW-02 1019	19J1295-02	Zinc	11/5/2019	19.5	Y	Y				1.11	1.11	ug/l

SDG: 19J1295

Analytical Method 6010B AND 6020

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-02 1019	19J1295-02	Beryllium	11/5/2019		Y	N	U		U	0.333	0.333	ug/l
KC-MW-02 1019	19J1295-02	Arsenic	11/5/2019		Y	N	U		U	1.11	1.11	ug/l
KC-MW-02 1019	19J1295-02	Nickel	11/5/2019	42.0	Y	Y				1.11	1.11	ug/l
KC-MW-02 1019	19J1295-02	Cadmium	11/5/2019	1.04	Y	Y				0.556	0.556	ug/l
KC-MW-02 1019	19J1295-02	Chromium, Total	11/5/2019	1.59	Y	Y				1.11	1.11	ug/l
KC-MW-02 1019	19J1295-02	Antimony	11/5/2019		Y	N	U	UJ	UJ	1.11	1.11	ug/l
KC-MW-02 1019	19J1295-02	Copper	11/5/2019	6.87	Y	Y				1.11	1.11	ug/l
KC-MW-02 1019	19J1295-02	Selenium	11/5/2019	3.21	Y	Y		J	J	1.11	1.11	ug/l
KC-MW-02 1019	19J1295-02	Thallium	11/5/2019		Y	N	U		U	1.11	1.11	ug/l
KC-MW-02 1019	19J1295-02	Lead	11/5/2019		Y	N	U		U	1.11	1.11	ug/l
KC-MW-05 1019	19J1295-03	Chromium, Total	11/5/2019		Y	N	U		U	1.11	1.11	ug/l
KC-MW-05 1019	19J1295-03	Thallium	11/5/2019		Y	N	U		U	1.11	1.11	ug/l
KC-MW-05 1019	19J1295-03	Lead	11/5/2019		Y	N	U		U	1.11	1.11	ug/l
KC-MW-05 1019	19J1295-03	Arsenic	11/5/2019	2.90	Y	Y				1.11	1.11	ug/l
KC-MW-05 1019	19J1295-03	Cadmium	11/5/2019		Y	N	U		U	0.556	0.556	ug/l
KC-MW-05 1019	19J1295-03	Selenium	11/5/2019	3.29	Y	Y		J	J	1.11	1.11	ug/l
KC-MW-05 1019	19J1295-03	Beryllium	11/5/2019		Y	N	U		U	0.333	0.333	ug/l
KC-MW-05 1019	19J1295-03	Nickel	11/5/2019	3.52	Y	Y				1.11	1.11	ug/l
KC-MW-05 1019	19J1295-03	Zinc	11/5/2019	8.32	Y	Y				1.11	1.11	ug/l
KC-MW-05 1019	19J1295-03	Copper	11/5/2019	1.86	Y	Y				1.11	1.11	ug/l
KC-MW-05 1019	19J1295-03	Antimony	11/5/2019		Y	N	U	UJ	UJ	1.11	1.11	ug/l
KC-MW-DUP 1019	19J1295-04	Antimony	11/5/2019	2.55	Y	Y		J	J	1.11	1.11	ug/l
KC-MW-DUP 1019	19J1295-04	Thallium	11/5/2019	2.74	Y	Y				1.11	1.11	ug/l
KC-MW-DUP 1019	19J1295-04	Selenium	11/5/2019	339	Y	Y		J	J	1.11	1.11	ug/l
KC-MW-DUP 1019	19J1295-04	Lead	11/5/2019	251	Y	Y				1.11	1.11	ug/l

SDG: 19J1295

Analytical Method	6010B AND 6020											
Sample ID	**Lab Sample ID**	**Chemical Name**	**Anal Date**	**Result**	**Validated**	**Detect**	**Lab Qual**	**Val Qual**	**Final qual**	**RL**	**MDL**	**Units**
KC-MW-DUP 1019	19J1295-04	Arsenic	11/5/2019	448	Y	Y				1.11	1.11	ug/l
KC-MW-DUP 1019	19J1295-04	Beryllium	11/5/2019	1.13	Y	Y				0.333	0.333	ug/l
KC-MW-DUP 1019	19J1295-04	Cadmium	11/5/2019	302	Y	Y				0.556	0.556	ug/l
KC-MW-DUP 1019	19J1295-04	Copper	11/5/2019	939	Y	Y				1.11	1.11	ug/l
KC-MW-DUP 1019	19J1295-04	Copper	11/6/2019		Y	N	U		U	1.11	1.11	ug/l
KC-MW-DUP 1019	19J1295-04	Chromium, Total	11/6/2019		Y	N	U		U	1.11	1.11	ug/l
KC-MW-DUP 1019	19J1295-04	Zinc	11/6/2019	13.9	Y	Y		J	J	1.11	1.11	ug/l
KC-MW-DUP 1019	19J1295-04	Arsenic	11/6/2019	23.7	Y	Y				1.11	1.11	ug/l
KC-MW-DUP 1019	19J1295-04	Nickel	11/6/2019	315	Y	Y				1.11	1.11	ug/l
KC-MW-DUP 1019	19J1295-04	Antimony	11/6/2019	1.88	Y	Y		J	J	1.11	1.11	ug/l
KC-MW-DUP 1019	19J1295-04	Selenium	11/6/2019	5.72	Y	Y				1.11	1.11	ug/l
KC-MW-DUP 1019	19J1295-04	Lead	11/6/2019		Y	N	U		U	1.11	1.11	ug/l
KC-MW-DUP 1019	19J1295-04	Thallium	11/6/2019		Y	N	U		U	1.11	1.11	ug/l
KC-MW-DUP 1019	19J1295-04	Beryllium	11/6/2019		Y	N	U		U	0.333	0.333	ug/l
KC-MW-DUP 1019	19J1295-04	Cadmium	11/6/2019		Y	N	U		U	0.556	0.556	ug/l
KC-MW-DUP 1019	19J1295-04R	Nickel	11/6/2019	2670	Y	Y	D			11.1	11.1	ug/l
KC-MW-DUP 1019	19J1295-04R	Chromium, Total	11/6/2019	1510	Y	Y	D			11.1	11.1	ug/l
KC-MW-DUP 1019	19J1295-04R	Zinc	11/6/2019	5500	Y	Y	D			11.1	11.1	ug/l

Analytical Method	SW6010B											
Sample ID	**Lab Sample ID**	**Chemical Name**	**Anal Date**	**Result**	**Validated**	**Detect**	**Lab Qual**	**Val Qual**	**Final qual**	**RL**	**MDL**	**Units**
KC-MW-01 1019	19J1295-01	Silver	11/5/2019		Y	N	U		U	0.00556	0.00556	mg/l
KC-MW-01 1019	19J1295-01	Silver	11/5/2019		Y	N	U		U	0.00556	0.00556	mg/l
KC-MW-02 1019	19J1295-02	Silver	11/5/2019		Y	N	U		U	0.00556	0.00556	mg/l
KC-MW-05 1019	19J1295-03	Silver	11/5/2019		Y	N	U		U	0.00556	0.00556	mg/l

SDG: 19J1295

Analytical Method	SW6010B											
Sample ID	**Lab Sample ID**	**Chemical Name**	**Anal Date**	**Result**	**Validated**	**Detect**	**Lab Qual**	**Val Qual**	**Final qual**	**RL**	**MDL**	**Units**
KC-MW-DUP 1019	19J1295-04	Silver	11/5/2019		Y	N	U		U	0.00556	0.00556	mg/l
KC-MW-DUP 1019	19J1295-04	Silver	11/5/2019		Y	N	U		U	0.00556	0.00556	mg/l

Analytical Method	SW7473											
Sample ID	**Lab Sample ID**	**Chemical Name**	**Anal Date**	**Result**	**Validated**	**Detect**	**Lab Qual**	**Val Qual**	**Final qual**	**RL**	**MDL**	**Units**
KC-MW-01 1019	19J1295-01	Mercury	11/4/2019		Y	N	U		U	0.0002	0.0002	mg/l
KC-MW-01 1019	19J1295-01	Mercury	11/6/2019		Y	N	U		U	0.0002	0.0002	mg/l
KC-MW-02 1019	19J1295-02	Mercury	11/4/2019		Y	N	U		U	0.0002	0.0002	mg/l
KC-MW-05 1019	19J1295-03	Mercury	11/4/2019		Y	N	U		U	0.0002	0.0002	mg/l
KC-MW-DUP 1019	19J1295-04	Mercury	11/4/2019		Y	N	U		U	0.0002	0.0002	mg/l
KC-MW-DUP 1019	19J1295-04	Mercury	11/6/2019		Y	N	U		U	0.0002	0.0002	mg/l

Analytical Method	SW8260B											
Sample ID	**Lab Sample ID**	**Chemical Name**	**Anal Date**	**Result**	**Validated**	**Detect**	**Lab Qual**	**Val Qual**	**Final qual**	**RL**	**MDL**	**Units**
KC-MW-01 1019	19J1295-01	Bromochloromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,1,2-Trichloro-1,2,2-Trifluoroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Trichlorofluoromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Methylcyclohexane	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Tert-Butyl Alcohol	11/1/2019		Y	N	U		U	0.5	0.5	ug/l
KC-MW-01 1019	19J1295-01	Bromodichloromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Bromoform	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,2-Dichloropropane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Chloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,2,3-Trichloropropane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Dibromomethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Chloroform	11/1/2019		Y	N	U		U	0.2	0.2	ug/l

SDG: 19J1295

Analytical Method SW8260B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-01 1019	19J1295-01	Carbon Tetrachloride	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,3-Dichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Methylene Chloride	11/1/2019		Y	N	U		U	1	1	ug/l
KC-MW-01 1019	19J1295-01	Isopropylbenzene (Cumene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Tert-Butyl Methyl Ether	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Methyl Ethyl Ketone (2-Butanone)	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	T-Butylbenzene	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	2-Hexanone	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Tetrachloroethylene (PCE)	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,2,4-Trimethylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	P-Cymene (P-Isopropyltoluene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Methyl Acetate	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,1,1,2-Tetrachloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,2-Dibromo-3-Chloropropane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,2-Dichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	O-Xylene (1,2-Dimethylbenzene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Hexachlorobutadiene	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,1,2,2-Tetrachloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Xylenes, Total	11/1/2019		Y	N	U		U	0.6	0.6	ug/l
KC-MW-01 1019	19J1295-01	Dichlorodifluoromethane	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	N-Propylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Trans-1,3-Dichloropropene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Cis-1,3-Dichloropropene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,1-Dichloroethene	11/1/2019	91	Y	Y				0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Ethylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l

SDG: 19J1295

Analytical Method SW8260B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-01 1019	19J1295-01	Bromomethane	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	N-Butylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,1,2-Trichloroethane	11/1/2019	0.47	Y	Y	J		J	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Styrene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,2,3-Trichlorobenzene	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,1,1-Trichloroethane (TCA)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,1-Dichloroethane	11/1/2019	18	Y	Y				0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Benzene	11/1/2019	0.88	Y	Y				0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Chloromethane	11/1/2019	0.29	Y	Y	J	J	J	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	M-P-Xylene	11/1/2019		Y	N	U		U	0.5	0.5	ug/l
KC-MW-01 1019	19J1295-01	Acetone	11/1/2019	3.2	Y	Y		J	J	1	1	ug/l
KC-MW-01 1019	19J1295-01	Carbon Disulfide	11/1/2019	0.24	Y	Y	J		J	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Toluene	11/1/2019	1.5	Y	Y				0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Sec-Butylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,2,4-Trichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Cyclohexane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Chlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,4-Dichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,3,5-Trimethylbenzene (Mesitylene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Trans-1,4-Dichloro-2-Butene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Acrylonitrile	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,4-Dioxane (P-Dioxane)	11/1/2019		Y	N	U	UJ	UJ	40	40	ug/l
KC-MW-01 1019	19J1295-01	1,2-Dichloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l

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KC-MW-01 1019	19J1295-01	Acrolein	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	Dibromochloromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01	1,2-Dibromoethane (Ethylene Dibromide)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-01 1019	19J1295-01R	Vinyl Chloride	11/4/2019	4600	Y	Y	D			20	20	ug/l
KC-MW-01 1019	19J1295-01R	Trans-1,2-Dichloroethene	11/4/2019	890	Y	Y	D			20	20	ug/l
KC-MW-01 1019	19J1295-01R	Trichloroethylene (TCE)	11/4/2019	26000	Y	Y	D			200	200	ug/l
KC-MW-01 1019	19J1295-01R	Cis-1,2-Dichloroethylene	11/4/2019	32000	Y	Y	D			200	200	ug/l
KC-MW-02 1019	19J1295-02	Benzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Chloromethane	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Dibromomethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Chloroform	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	1,1,1,2-Tetrachloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	1,1,1-Trichloroethane (TCA)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Carbon Tetrachloride	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Sec-Butylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	M-P-Xylene	11/1/2019		Y	N	U		U	0.5	0.5	ug/l
KC-MW-02 1019	19J1295-02	1,3-Dichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Tert-Butyl Methyl Ether	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	T-Butylbenzene	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Methyl Ethyl Ketone (2-Butanone)	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Tert-Butyl Alcohol	11/1/2019		Y	N	U		U	0.5	0.5	ug/l
KC-MW-02 1019	19J1295-02	O-Xylene (1,2-Dimethylbenzene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Hexachlorobutadiene	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	1,1,2,2-Tetrachloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	1,1,2-Trichloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l

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KC-MW-02 1019	19J1295-02	1,2-Dichloropropane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	1,1,2-Trichloro-1,2,2-Trifluoroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Trichlorofluoromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Bromomethane	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Bromochloromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	1,1-Dichloroethene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	1,1-Dichloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Bromodichloromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Bromoform	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Methyl Acetate	11/1/2019	0.39	Y	Y	J		J	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Carbon Disulfide	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Methylene Chloride	11/1/2019		Y	N	U		U	1	1	ug/l
KC-MW-02 1019	19J1295-02	Chloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Dibromochloromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Trans-1,2-Dichloroethene	11/1/2019	2.3	Y	Y				0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Xylenes, Total	11/1/2019		Y	N	U		U	0.6	0.6	ug/l
KC-MW-02 1019	19J1295-02	N-Propylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Trans-1,3-Dichloropropene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Cis-1,3-Dichloropropene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Styrene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Ethylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	1,4-Dichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Cis-1,2-Dichloroethylene	11/1/2019	34	Y	Y				0.2	0.2	ug/l

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-02 1019	19J1295-02	1,2-Dibromoethane (Ethylene Dibromide)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Acetone	11/1/2019	4.0	Y	Y		J	J	1	1	ug/l
KC-MW-02 1019	19J1295-02	Vinyl Chloride	11/1/2019	9.6	Y	Y				0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Trichloroethylene (TCE)	11/1/2019	40	Y	Y				0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Methylcyclohexane	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Tetrachloroethylene (PCE)	11/1/2019	0.23	Y	Y	J	J	J	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	1,2,3-Trichlorobenzene	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Dichlorodifluoromethane	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	2-Hexanone	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	P-Cymene (P-Isopropyltoluene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	1,2,4-Trichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Cyclohexane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Trans-1,4-Dichloro-2-Butene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Chlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	1,2,4-Trimethylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	1,2-Dibromo-3-Chloropropane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	N-Butylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Isopropylbenzene (Cumene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	1,4-Dioxane (P-Dioxane)	11/1/2019		Y	N	U	UJ	UJ	40	40	ug/l
KC-MW-02 1019	19J1295-02	Toluene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	1,2-Dichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	1,3,5-Trimethylbenzene (Mesitylene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Acrylonitrile	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	1,2-Dichloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-02 1019	19J1295-02	Acrolein	11/1/2019		Y	N	U		U	0.2	0.2	ug/l

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-02 1019	19J1295-02	1,2,3-Trichloropropane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Carbon Disulfide	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	1,1-Dichloroethane	11/1/2019	0.49	Y	Y	J		J	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Bromomethane	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Methylene Chloride	11/1/2019		Y	N	U		U	1	1	ug/l
KC-MW-05 1019	19J1295-03	Bromoform	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Bromodichloromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Trichlorofluoromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Methylcyclohexane	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	1,1,2-Trichloro-1,2,2-Trifluoroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Cis-1,2-Dichloroethylene	11/1/2019	41	Y	Y				0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Trans-1,2-Dichloroethene	11/1/2019	1.2	Y	Y				0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Acetone	11/1/2019	3.8	Y	Y		J	J	1	1	ug/l
KC-MW-05 1019	19J1295-03	1,2,3-Trichlorobenzene	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Dichlorodifluoromethane	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Cyclohexane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Chloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	1,2,3-Trichloropropane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Benzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	1,1,1-Trichloroethane (TCA)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Dibromomethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Trichloroethylene (TCE)	11/1/2019	67	Y	Y				0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Bromochloromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	1,2-Dichloropropane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	1,1,2-Trichloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-05 1019	19J1295-03	Methyl Acetate	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Tert-Butyl Alcohol	11/1/2019	15	Y	Y				0.5	0.5	ug/l
KC-MW-05 1019	19J1295-03	1,1,2,2-Tetrachloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	O-Xylene (1,2-Dimethylbenzene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Chloroform	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	1,2-Dibromo-3-Chloropropane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Hexachlorobutadiene	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Tetrachloroethylene (PCE)	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Isopropylbenzene (Cumene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	P-Cymene (P-Isopropyltoluene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Xylenes, Total	11/1/2019		Y	N	U		U	0.6	0.6	ug/l
KC-MW-05 1019	19J1295-03	1,1-Dichloroethene	11/1/2019	0.50	Y	Y				0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Vinyl Chloride	11/1/2019	2.9	Y	Y				0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Chloromethane	11/1/2019	0.29	Y	Y	J	J	J	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	T-Butylbenzene	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Chlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Ethylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	2-Hexanone	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Methyl Ethyl Ketone (2-Butanone)	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	1,2,4-Trimethylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Toluene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	N-Propylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Trans-1,3-Dichloropropene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	1,2-Dichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	1,1,1,2-Tetrachloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-05 1019	19J1295-03	1,2-Dibromoethane (Ethylene Dibromide)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Acrolein	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	1,2-Dichloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Acrylonitrile	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	N-Butylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	1,3,5-Trimethylbenzene (Mesitylene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	1,4-Dichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Trans-1,4-Dichloro-2-Butene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Cis-1,3-Dichloropropene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Styrene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Carbon Tetrachloride	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	1,2,4-Trichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	1,4-Dioxane (P-Dioxane)	11/1/2019		Y	N	U	UJ	UJ	40	40	ug/l
KC-MW-05 1019	19J1295-03	Dibromochloromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Sec-Butylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	M-P-Xylene	11/1/2019		Y	N	U		U	0.5	0.5	ug/l
KC-MW-05 1019	19J1295-03	1,3-Dichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-05 1019	19J1295-03	Tert-Butyl Methyl Ether	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	2-Hexanone	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	O-Xylene (1,2-Dimethylbenzene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Methyl Ethyl Ketone (2-Butanone)	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Methyl Acetate	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Acetone	11/1/2019		Y	N	U	UJ	UJ	1	1	ug/l

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-DUP 1019	19J1295-04	1,2-Dichloropropane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,1,2-Trichloro-1,2,2-Trifluoroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Bromodichloromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Methylene Chloride	11/1/2019		Y	N	U		U	1	1	ug/l
KC-MW-DUP 1019	19J1295-04	Bromoform	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Trichlorofluoromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Chloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Carbon Disulfide	11/1/2019	0.24	Y	Y	J		J	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Toluene	11/1/2019	1.4	Y	Y				0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Benzene	11/1/2019	0.89	Y	Y				0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,1-Dichloroethane	11/1/2019	17	Y	Y				0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,1,2,2-Tetrachloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,1-Dichloroethene	11/1/2019	92	Y	Y				0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Bromochloromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Bromomethane	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Tetrachloroethylene (PCE)	11/1/2019	0.23	Y	Y	J	J	J	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,2-Dichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Chloromethane	11/1/2019	0.34	Y	Y	J	J	J	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Xylenes, Total	11/1/2019		Y	N	U		U	0.6	0.6	ug/l
KC-MW-DUP 1019	19J1295-04	P-Cymene (P-Isopropyltoluene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Isopropylbenzene (Cumene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,2,3-Trichloropropane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,2-Dibromo-3-Chloropropane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,2,4-Trimethylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Tert-Butyl Alcohol	11/1/2019	7.3	Y	Y				0.5	0.5	ug/l

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-DUP 1019	19J1295-04	Styrene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,2-Dichloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Acrolein	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,2-Dibromoethane (Ethylene Dibromide)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,1,2-Trichloroethane	11/1/2019	0.53	Y	Y				0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Methylcyclohexane	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,2,3-Trichlorobenzene	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Acrylonitrile	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Ethylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,4-Dichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Cis-1,3-Dichloropropene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Trans-1,3-Dichloropropene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	N-Propylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Dibromomethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	N-Butylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Hexachlorobutadiene	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Dichlorodifluoromethane	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Sec-Butylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,1,1,2-Tetrachloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Chloroform	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,1,1-Trichloroethane (TCA)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	T-Butylbenzene	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,3-Dichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-MW-DUP 1019	19J1295-04	Tert-Butyl Methyl Ether	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	M-P-Xylene	11/1/2019		Y	N	U		U	0.5	0.5	ug/l
KC-MW-DUP 1019	19J1295-04	Carbon Tetrachloride	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,2,4-Trichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,3,5-Trimethylbenzene (Mesitylene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	1,4-Dioxane (P-Dioxane)	11/1/2019		Y	N	U	UJ	UJ	40	40	ug/l
KC-MW-DUP 1019	19J1295-04	Chlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Trans-1,4-Dichloro-2-Butene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Dibromochloromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04	Cyclohexane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-MW-DUP 1019	19J1295-04R	Trans-1,2-Dichloroethene	11/4/2019	810	Y	Y	D			20	20	ug/l
KC-MW-DUP 1019	19J1295-04R	Vinyl Chloride	11/4/2019	4000	Y	Y	D			20	20	ug/l
KC-MW-DUP 1019	19J1295-04R	Cis-1,2-Dichloroethylene	11/4/2019	35000	Y	Y	D			200	200	ug/l
KC-MW-DUP 1019	19J1295-04R	Trichloroethylene (TCE)	11/4/2019	28000	Y	Y	D			200	200	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,1,2-Trichloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Carbon Disulfide	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,2-Dichloropropane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,1-Dichloroethene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Trichlorofluoromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Tert-Butyl Alcohol	11/1/2019		Y	N	U		U	0.5	0.5	ug/l
KC-TRIP BLANK 1019	19J1295-05	Bromoform	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Trichloroethylene (TCE)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Bromodichloromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,1-Dichloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,1,2-Trichloro-1,2,2-Trifluoroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-TRIP BLANK 1019	19J1295-05	Isopropylbenzene (Cumene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Methylcyclohexane	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,2,3-Trichlorobenzene	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Dichlorodifluoromethane	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Carbon Tetrachloride	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Methylene Chloride	11/1/2019		Y	N	U		U	1	1	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,2-Dibromo-3-Chloropropane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	P-Cymene (P-Isopropyltoluene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Methyl Acetate	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,2,3-Trichloropropane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,2,4-Trimethylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,2-Dichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	O-Xylene (1,2-Dimethylbenzene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Hexachlorobutadiene	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,1,2,2-Tetrachloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Xylenes, Total	11/1/2019		Y	N	U		U	0.6	0.6	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,4-Dichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Chlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Toluene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	T-Butylbenzene	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,3,5-Trimethylbenzene (Mesitylene)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Acrylonitrile	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,2-Dichloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l

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Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-TRIP BLANK 1019	19J1295-05	1,1,1,2-Tetrachloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,2-Dibromoethane (Ethylene Dibromide)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,2,4-Trichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	N-Butylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	N-Propylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Trans-1,3-Dichloropropene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Cis-1,3-Dichloropropene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Bromomethane	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Styrene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Ethylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Tetrachloroethylene (PCE)	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Acrolein	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,3-Dichlorobenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Chloroethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Bromochloromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Dibromomethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Methyl Ethyl Ketone (2-Butanone)	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Chloromethane	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,1,1-Trichloroethane (TCA)	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Benzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Chloroform	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Trans-1,4-Dichloro-2-Butene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	2-Hexanone	11/1/2019		Y	N	U	UJ	UJ	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Cyclohexane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Tert-Butyl Methyl Ether	11/1/2019		Y	N	U		U	0.2	0.2	ug/l

SDG: 19J1295

Analytical Method SW8260B

Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
KC-TRIP BLANK 1019	19J1295-05	Trans-1,2-Dichloroethene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Cis-1,2-Dichloroethylene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	M-P-Xylene	11/1/2019		Y	N	U		U	0.5	0.5	ug/l
KC-TRIP BLANK 1019	19J1295-05	Sec-Butylbenzene	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Dibromochloromethane	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	1,4-Dioxane (P-Dioxane)	11/1/2019		Y	N	U	UJ	UJ	40	40	ug/l
KC-TRIP BLANK 1019	19J1295-05	Vinyl Chloride	11/1/2019		Y	N	U		U	0.2	0.2	ug/l
KC-TRIP BLANK 1019	19J1295-05	Acetone	11/1/2019		Y	N	U	UJ	UJ	1	1	ug/l

Table of Contents for York SDG 20F0067

Technical Report

prepared for:

Chazen Environmental Services (Poughkeepsie)
21 Fox Street
Poughkeepsie NY, 12601
Attention: Eric Orlowski

Report Date: 07/15/2020
Client Project ID: 41103.20 Kingston CVS
York Project (SDG) No.: 20F0067

Report Date: 07/15/2020
Client Project ID: 41103.20 Kingston CVS
York Project (SDG) No.: 20F0067

Chazen Environmental Services (Poughkeepsie)
21 Fox Street
Poughkeepsie NY, 12601
Attention: Eric Orlowski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 02, 2020 and listed below. The project was identified as your project: **41103.20 Kingston CVS**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
20F0067-01	KC-MW-01 0620	Water	06/01/2020	06/02/2020
20F0067-02	KC-MW-02 0620	Water	06/01/2020	06/02/2020
20F0067-03	KC-MW-05 0620	Water	06/01/2020	06/02/2020
20F0067-04	KC-MW-07 0620	Water	06/01/2020	06/02/2020
20F0067-05	TRIP BLANK 0620	Water	06/01/2020	06/02/2020
20F0067-06	KC-MW-DUP 0620	Water	06/01/2020	06/02/2020

General Notes for York Project (SDG) No.: 20F0067

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:  **Date:** 07/15/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: KC-MW-01 0620 **York Sample ID:** 20F0067-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 12:39 pm	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	**1,1,2-Trichloroethane**	**0.43**	J	ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	**1,1-Dichloroethane**	**21**		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	**1,1-Dichloroethylene**	**150**		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-01 0620 **York Sample ID:** 20F0067-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 12:39 pm	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	**Benzene**	**1.0**		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	**Chloromethane**	**1.1**	B	ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**28000**	B	ug/L	40	100	200	EPA 8260C	06/05/2020 06:57	06/08/2020 17:27	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-01 0620 **York Sample ID:** 20F0067-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 12:39 pm	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	**Tetrachloroethylene**	**0.31**	J	ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	**Toluene**	**1.5**		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	**trans-1,2-Dichloroethylene**	**770**		ug/L	40	100	200	EPA 8260C	06/05/2020 06:57	06/08/2020 17:27	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**24000**	B	ug/L	40	100	200	EPA 8260C	06/05/2020 06:57	06/08/2020 17:27	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	**Vinyl Chloride**	**5100**		ug/L	40	100	200	EPA 8260C	06/05/2020 06:57	06/08/2020 17:27	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	06/05/2020 06:57	06/05/2020 17:29	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*96.8 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.0 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*92.4 %*	*79-122*

Sample Information

Client Sample ID: KC-MW-01 0620 **York Sample ID:** 20F0067-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 12:39 pm	06/02/2020

Metals, Priority Pollutant

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.028	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:04	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	**Arsenic**	**0.027**		mg/L	0.017	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:04	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/L	0.0006	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:04	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**0.012**		mg/L	0.003	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:04	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**0.019**		mg/L	0.006	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:04	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**0.027**		mg/L	0.022	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:04	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.006	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:04	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**0.328**		mg/L	0.011	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:04	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	*** Selenium**	**0.103**		mg/L	0.028	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:04	KML
						Certifications:	CTDOH			
7440-22-4	Silver	ND		mg/L	0.006	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:04	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/L	0.028	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:04	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**0.036**		mg/L	0.028	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:04	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Metals, Priority Pollutant, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.028	1	EPA 6010D	06/05/2020 12:43	06/05/2020 15:17	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	ND		mg/L	0.017	1	EPA 6010D	06/05/2020 12:43	06/05/2020 15:17	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/L	0.0006	1	EPA 6010D	06/05/2020 12:43	06/05/2020 15:17	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		mg/L	0.003	1	EPA 6010D	06/05/2020 12:43	06/05/2020 15:17	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.006	1	EPA 6010D	06/05/2020 12:43	06/05/2020 15:17	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.022	1	EPA 6010D	06/05/2020 12:43	06/05/2020 15:17	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.006	1	EPA 6010D	06/05/2020 12:43	06/05/2020 15:17	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**0.342**		mg/L	0.011	1	EPA 6010D	06/05/2020 12:43	06/05/2020 15:17	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	*** Selenium**	**0.095**		mg/L	0.028	1	EPA 6010D	06/05/2020 12:43	06/05/2020 15:17	KML
						Certifications:	CTDOH			

Sample Information

Client Sample ID: KC-MW-01 0620 **York Sample ID:** 20F0067-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 12:39 pm	06/02/2020

Metals, Priority Pollutant, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/L	0.006	1	EPA 6010D	06/05/2020 12:43	06/05/2020 15:17	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/L	0.028	1	EPA 6010D	06/05/2020 12:43	06/05/2020 15:17	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	Zinc	ND		mg/L	0.028	1	EPA 6010D	06/05/2020 12:43	06/05/2020 15:17	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473	06/05/2020 11:11	06/05/2020 21:09	MAO
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	06/03/2020 15:26	06/03/2020 15:26	AA
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-02 0620 **York Sample ID:** 20F0067-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 11:20 am	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-02 0620 **York Sample ID:** 20F0067-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 11:20 am	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-64-1	**Acetone**	**2.9**		ug/L	1.0	2.0	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-02 0620 **York Sample ID:** 20F0067-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 11:20 am	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			

Sample Information

Client Sample ID: KC-MW-02 0620 **York Sample ID:** 20F0067-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 11:20 am	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	**Tetrachloroethylene**	**0.24**	J	ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**0.42**	J	ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.9 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*98.2 %*	*79-122*

Metals, Priority Pollutant

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.028	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:07	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	ND		mg/L	0.017	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:07	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/L	0.0006	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:07	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		mg/L	0.003	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:07	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-02 0620 **York Sample ID:** 20F0067-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 11:20 am	06/02/2020

Metals, Priority Pollutant

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.006	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:07	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.022	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:07	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.006	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:07	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	Nickel	ND		mg/L	0.011	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:07	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	* **Selenium**	**0.029**		mg/L	0.028	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:07	KML
						Certifications:	CTDOH			
7440-22-4	Silver	ND		mg/L	0.006	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:07	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/L	0.028	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:07	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	Zinc	ND		mg/L	0.028	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:07	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473	06/05/2020 11:11	06/05/2020 21:20	MAO
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-05 0620 **York Sample ID:** 20F0067-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 10:30 am	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-05 0620 **York Sample ID:** 20F0067-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 10:30 am	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	**1,1-Dichloroethane**	**0.44**	J	ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	**1,1-Dichloroethylene**	**0.31**	J	ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-05 0620 **York Sample ID:** 20F0067-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 10:30 am	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	**Chloromethane**	**0.21**	CCV-E, J	ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**19**		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-05 0620 **York Sample ID:** 20F0067-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 10:30 am	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	**trans-1,2-Dichloroethylene**	**0.28**	J	ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**37**		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	06/05/2020 06:57	06/09/2020 05:30	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.5 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.6 %*	*79-122*

Metals, Priority Pollutant

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.028	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	ND		mg/L	0.017	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-05 0620 **York Sample ID:** 20F0067-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 10:30 am	06/02/2020

Metals, Priority Pollutant

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-41-7	Beryllium	ND		mg/L	0.0006	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	**Cadmium**	**0.010**		mg/L	0.003	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**0.013**		mg/L	0.006	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.022	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.006	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**0.321**		mg/L	0.011	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	*** Selenium**	**0.097**		mg/L	0.028	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:10	KML
						Certifications:	CTDOH			
7440-22-4	Silver	ND		mg/L	0.006	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/L	0.028	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	Zinc	ND		mg/L	0.028	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:10	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473	06/05/2020 11:11	06/05/2020 21:30	MAO
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-07 0620 **York Sample ID:** 20F0067-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 2:41 pm	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	**1,1,1-Trichloroethane**	**1.2**		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-07 0620 **York Sample ID:** 20F0067-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 2:41 pm	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	**1,1-Dichloroethane**	**3.6**		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	**1,1-Dichloroethylene**	**0.22**	J	ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-07 0620 **York Sample ID:** 20F0067-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 2:41 pm	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	**Benzene**	**0.20**	J	ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	**Bromomethane**	**0.76**	CCV-E, ICV-E	ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	**Chloromethane**	**3.0**	CCV-E	ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**11**		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-07 0620 **York Sample ID:** 20F0067-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 2:41 pm	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	**trans-1,2-Dichloroethylene**	**0.47**	J	ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**38**		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	**Vinyl Chloride**	**1.7**	CCV-E	ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	06/08/2020 06:13	06/09/2020 11:45	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*87.7 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*100 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*79-122*

Sample Information

Client Sample ID: TRIP BLANK 0620 **York Sample ID:** 20F0067-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 12:00 am	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: TRIP BLANK 0620 **York Sample ID:** 20F0067-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 12:00 am	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: TRIP BLANK 0620 **York Sample ID:** 20F0067-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 12:00 am	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	06/08/2020 06:13	06/09/2020 10:23	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*88.4 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*115 %*	*79-122*

Sample Information

Client Sample ID: KC-MW-DUP 0620 **York Sample ID:** 20F0067-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 12:00 am	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	**1,1-Dichloroethane**	**20**		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	**1,1-Dichloroethylene**	**130**		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-DUP 0620 **York Sample ID:** 20F0067-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 12:00 am	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	**Benzene**	**0.92**		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	**Chloromethane**	**1.6**	B	ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	**cis-1,2-Dichloroethylene**	**27000**	B	ug/L	40	100	200	EPA 8260C	06/05/2020 06:57	06/08/2020 17:58	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KC-MW-DUP 0620 **York Sample ID:** 20F0067-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 12:00 am	06/02/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	**Tetrachloroethylene**	**0.31**	J	ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	**Toluene**	**1.3**		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	**trans-1,2-Dichloroethylene**	**730**		ug/L	40	100	200	EPA 8260C	06/05/2020 06:57	06/08/2020 17:58	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			
79-01-6	**Trichloroethylene**	**23000**	B	ug/L	40	100	200	EPA 8260C	06/05/2020 06:57	06/08/2020 17:58	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	**Vinyl Chloride**	**4800**		ug/L	40	100	200	EPA 8260C	06/05/2020 06:57	06/08/2020 17:58	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	06/05/2020 06:57	06/05/2020 20:01	TMP
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*95.7 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.9 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*92.1 %*	*79-122*

Sample Information

Client Sample ID: KC-MW-DUP 0620 **York Sample ID:** 20F0067-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20F0067	41103.20 Kingston CVS	Water	June 1, 2020 12:00 am	06/02/2020

Metals, Priority Pollutant

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.028	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:13	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	ND		mg/L	0.017	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:13	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/L	0.0006	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:13	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		mg/L	0.003	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:13	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.006	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:13	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	Copper	ND		mg/L	0.022	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:13	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.006	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:13	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	Nickel	ND		mg/L	0.011	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:13	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	*** Selenium**	**0.039**		mg/L	0.028	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:13	KML
						Certifications:	CTDOH			
7440-22-4	Silver	ND		mg/L	0.006	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:13	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/L	0.028	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:13	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	Zinc	ND		mg/L	0.028	1	EPA 6010D	06/03/2020 15:02	06/08/2020 15:13	KML
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	1	EPA 7473	06/05/2020 11:11	06/05/2020 21:41	MAO
						Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP			

CASE NARRATIVE

York Project/SDG No.: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Client Project ID: 41103.20 Kingston CVS
Prepared for: Eric Orlowski

Introduction

This Case Narrative applies only to the samples submitted to our laboratory on **06/02/2020 19:05** as detailed on the chain-of-custody form.

The 6 sample(s) were received intact in a custody-sealed cooler(s), unless otherwise noted.
Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (≤ 6°C) and documented as:

Cooler	Temp C°
Default Cooler	**2.5**

Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

All preparation and analyses were conducted according to the appropriate EPA methods detailed in the report.

Client Sample Information and Non-Conformances

Laboratory ID	Sample Name	Matrix
20F0067-01	KC-MW-01 0620	Water
20F0067-02	KC-MW-02 0620	Water
20F0067-03	KC-MW-05 0620	Water
20F0067-04	KC-MW-07 0620	Water
20F0067-05	TRIP BLANK 0620	Water
20F0067-06	KC-MW-DUP 0620	Water

Any additional Client Sample Non-conformances are detailed in the proceeding Case Narrative Non-Conformance Summary tables.

No other problems were encountered during analysis.

QC Sample Non-Conformances

Any QC sample Non-conformances (SCV, CCV, BS, BSD, SRM, PS, MS, MSD, DUP) are detailed in the proceeding Case Narrative Non-Conformance Summary tables.

No other problems were encountered during analysis.

York Project/SDG no.: 20F0067 Statement

We certify that these data are in compliance with SOP requirements both technically and for completeness for other than the conditions stated above. Release of the data contained in the hard copy report and any electronic data deliverables has been authorized by the Laboratory Manager as verified by the signature on this laboratory report.

Approved by: *Ben Gulizia*
Laboratory Director

Date: 7/15/2020

York Analytical Laboratories, Inc.

Formulae Used for Sample Calculations

1. **Volatile Organics (Water-ug/L or Soil-ug/Kg)**

Soils/Waters

$$Cx = \frac{(Ax)(IS)(DF)}{(Ais)(RRF)(V)(\%\ solids)}$$

Medium Level Soils

$$Cx = \frac{(Ax)(IS)(VT)(1000)(DF)}{(Ais)(RRF)(VA)(V)(\%\ solids)}$$

2. **Semi-Volatiles (Water-ug/L or Soil-ug/Kg)**

$$Cx = \frac{(Ax)(IS)(VE)(DF)}{(Ais)(RRF)(Volume\ injected,\ uL)(V)(\%\ solids)}$$

3. **Pesticides/PCB, DRO, EPH, CTETPH (Water-ug/L or Soil-ug/Kg)**

$$Cx = \frac{(Ax)(VE)(DF)}{(CF)(Volume\ injected,\ uL)(V)(\%\ solids)}$$

4. **Inorganics (Water or Soil-ug/mL)**

$$Cx = \frac{(Conc.)(VE)}{(V)(\%\ solids/100)}$$

WHERE:

Cx = concentration of analyte as ug/L or ug/kg
Ax = Area of the characteristic ion for the compound to be measured, counts
Ais = Area of the characteristic ion for the specific internal standard, counts
IS = Concentration of the internal standard spiking mixture, ng
RRF = Mean relative response factor from the initial calibration
DF = Dilution factor calculated as described in section 2. If no dilution is performed, DF= 1
V = Volume for liquids in mL, weight for soils/solids in grams
VA = volume of MeOH aliquot for medium level soils
VE = final volume of concentrated extract or digestate
VT = volume of MeOH for volatiles medium level soils
CF = calibration factor for external calibration used in GC pest/pcb

Cis = Concentration of the internal standard spiking mixture, ppbv

Case Narrative Non-Conformance Summary

Laboratory:	York Analytical Laboratories, Inc.	Client:	
Project:		Lab Project No:	
Laboratory Sample ID(s):	-01 - -06RE1	Sampling Date(s):	06/01/2020 - 06/01/2020
Review Date(s):	-	Laboratory Reviewer(s):	

QC Sample Nonconformances

Batch ID: BF00412 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BF00412-BS1	Bromoform - 75-25-2	7.3 ug/L	LCS	72.6	78-133	Low Bias				
BF00412-BS1	Bromomethane - 74-83-9	1.1 ug/L	LCS	10.8	43-168	Low Bias				
BF00412-BS1	Dichlorodifluoromethane - 75-71-8	4.0 ug/L	LCS	40.4	44-144	Low Bias				
BF00412-BS1	Methylcyclohexane - 108-87-2	7.0 ug/L	LCS	70.0	72-143	Low Bias				
BF00412-BSD1	1,4-Dioxane - 123-91-1	290 ug/L	LCS Dup	138	10-349		88.5	30	Non-dir.	
BF00412-BSD1	Acrolein - 107-02-8	10 ug/L	LCS Dup	102	10-153		148	30	Non-dir.	
BF00412-BSD1	Bromoform - 75-25-2	7.1 ug/L	LCS Dup	71.4	78-133	Low Bias	1.67	30		
BF00412-BSD1	Bromomethane - 74-83-9	1.5 ug/L	LCS Dup	15.3	43-168	Low Bias	34.5	30	Non-dir.	
BF00412-BSD1	Chloroethane - 75-00-3	13 ug/L	LCS Dup	127	65-136		37.4	30	Non-dir.	
BF00412-BSD1	Cyclohexane - 110-82-7	11 ug/L	LCS Dup	110	63-149		36.7	30	Non-dir.	
BF00412-BSD1	Dibromochloromethane - 124-48-1	7.9 ug/L	LCS Dup	78.9	80-130	Low Bias	2.50	30		
BF00412-BSD1	Dichlorodifluoromethane - 75-71-8	8.3 ug/L	LCS Dup	83.2	44-144		69.3	30	Non-dir.	
BF00412-BSD1	tert-Butylbenzene - 98-06-6	6.9 ug/L	LCS Dup	69.4	77-138	Low Bias	22.6	30		
BF00412-BSD1	Vinyl Chloride - 75-01-4	13 ug/L	LCS Dup	131	58-145		49.1	30	Non-dir.	

Batch ID: BF00478 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BF00478-BS1	1,2,3-Trichlorobenzene - 87-61-6	7.2 ug/L	LCS	72.2	76-136	Low Bias				
BF00478-BS1	1,2,4-Trichlorobenzene - 120-82-1	7.5 ug/L	LCS	74.7	76-137	Low Bias				
BF00478-BS1	cis-1,3-Dichloropropylene - 10061-01-5	8.0 ug/L	LCS	79.6	80-131	Low Bias				
BF00478-BS1	Cyclohexane - 110-82-7	4.7 ug/L	LCS	47.1	63-149	Low Bias				
BF00478-BS1	trans-1,3-Dichloropropylene - 10061-02-6	7.7 ug/L	LCS	77.1	78-131	Low Bias				
BF00478-BSD1	1,2,3-Trichlorobenzene - 87-61-6	6.9 ug/L	LCS Dup	69.4	76-136	Low Bias	3.95	30		
BF00478-BSD1	1,2,4-Trichlorobenzene - 120-82-1	7.4 ug/L	LCS Dup	74.1	76-137	Low Bias	0.806	30		
BF00478-BSD1	cis-1,3-Dichloropropylene - 10061-01-5	7.8 ug/L	LCS Dup	77.7	80-131	Low Bias	2.42	30		
BF00478-BSD1	Cyclohexane - 110-82-7	4.7 ug/L	LCS Dup	47.3	63-149	Low Bias	0.424	30		
BF00478-BSD1	trans-1,3-Dichloropropylene - 10061-02-6	7.4 ug/L	LCS Dup	74.4	78-131	Low Bias	3.56	30		

Batch ID: BF00479 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BF00479-BS1	Bromomethane - 74-83-9	1.5 ug/L	LCS	15.3	43-168	Low Bias				
BF00479-BS1	Methylcyclohexane - 108-87-2	6.4 ug/L	LCS	64.2	72-143	Low Bias				
BF00479-BS1	n-Butylbenzene - 104-51-8	7.8 ug/L	LCS	78.0	79-132	Low Bias				
BF00479-BS1	n-Propylbenzene - 103-65-1	7.8 ug/L	LCS	77.5	78-133	Low Bias				
BF00479-BS1	sec-Butylbenzene - 135-98-8	7.8 ug/L	LCS	78.0	79-137	Low Bias				
BF00479-BS1	tert-Butylbenzene - 98-06-6	6.5 ug/L	LCS	64.6	77-138	Low Bias				
BF00479-BS1	Tetrachloroethylene - 127-18-4	8.0 ug/L	LCS	80.4	82-131	Low Bias				
BF00479-BSD1	Bromomethane - 74-83-9	1.6 ug/L	LCS Dup	16.3	43-168	Low Bias	6.33	30		
BF00479-BSD1	Chloromethane - 74-87-3	16 ug/L	LCS Dup	160	43-155	High Bias	5.31	30		
BF00479-BSD1	tert-Butylbenzene - 98-06-6	7.0 ug/L	LCS Dup	70.3	77-138	Low Bias	8.45	30		

Batch ID: Y0F0307 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y0F0307-SCV1	Bromomethane - 74-83-9	25.8 ug/L	Secondary Cal Check	258	70-130	High Bias				
Y0F0307-SCV1	Cyclohexane - 110-82-7	4.36 ug/L	Secondary Cal Check	43.6	70-130	Low Bias				
Y0F0307-SCV1	Dichlorodifluoromethane - 75-71-8	5.01 ug/L	Secondary Cal Check	50.1	70-130	Low Bias				

Batch ID: Y0F0409 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y0F0409-SCV1	1,4-Dioxane - 123-91-1	289 ug/L	Secondary Cal Check	138	70-130	High Bias				
Y0F0409-SCV1	Dichlorodifluoromethane - 75-71-8	6.36 ug/L	Secondary Cal Check	63.6	70-130	Low Bias				

Batch ID: Y0F0821 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y0F0821-CCV1	1,4-Dioxane - 123-91-1	244 ug/L	Calibration Check	122	80-120	High Bias				
Y0F0821-CCV1	Acrolein - 107-02-8	12.6 ug/L	Calibration Check	126	80-120	High Bias				
Y0F0821-CCV1	Bromomethane - 74-83-9	1.20 ug/L	Calibration Check	12.0	80-120	Low Bias				
Y0F0821-CCV1	Dichlorodifluoromethane - 75-71-8	5.51 ug/L	Calibration Check	55.1	80-120	Low Bias				
Y0F0821-CCV1	trans-1,4-dichloro-2-butene - 110-57-6	7.88 ug/L	Calibration Check	78.8	80-120	Low Bias				

Batch ID: Y0F0919 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y0F0919-CCV1	1,4-Dioxane - 123-91-1	307 ug/L	Calibration Check	153	80-120	High Bias				
Y0F0919-CCV1	2-Butanone - 78-93-3	7.37 ug/L	Calibration Check	73.7	80-120	Low Bias				
Y0F0919-CCV1	Bromomethane - 74-83-9	6.24 ug/L	Calibration Check	62.4	80-120	Low Bias				
Y0F0919-CCV1	Chloromethane - 74-87-3	7.29 ug/L	Calibration Check	72.9	80-120	Low Bias				
Y0F0919-CCV1	cis-1,3-Dichloropropylene - 10061-01-5	7.99 ug/L	Calibration Check	79.9	80-120	Low Bias				
Y0F0919-CCV1	Methyl acetate - 79-20-9	7.78 ug/L	Calibration Check	77.8	80-120	Low Bias				
Y0F0919-CCV1	tert-Butyl alcohol (TBA) - 75-65-0	12.7 ug/L	Calibration Check	127	80-120	High Bias				
Y0F0919-CCV1	Vinyl Chloride - 75-01-4	6.77 ug/L	Calibration Check	67.7	80-120	Low Bias				

Batch ID: Y0F0932 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y0F0932-CCV1	1,4-Dioxane - 123-91-1	352 ug/L	Calibration Check	176	80-120	High Bias				
Y0F0932-CCV1	Bromomethane - 74-83-9	1.43 ug/L	Calibration Check	14.3	80-120	Low Bias				
Y0F0932-CCV1	Chloromethane - 74-87-3	15.0 ug/L	Calibration Check	150	80-120	High Bias				
Y0F0932-CCV1	Methyl acetate - 79-20-9	12.2 ug/L	Calibration Check	122	80-120	High Bias				
Y0F0932-CCV1	tert-Butyl alcohol (TBA) - 75-65-0	14.4 ug/L	Calibration Check	144	80-120	High Bias				

Batch ID: BF00412 **General Method:** Volatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
20F0067-01	KC-MW-01 0620
20F0067-06	KC-MW-DUP 0620
BF00412-BLK1	Blank
BF00412-BS1	LCS
BF00412-BSD1	LCS Dup

Batch ID: BF00478 **General Method:** Volatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
20F0067-02	KC-MW-02 0620
20F0067-03	KC-MW-05 0620
20F0067-04	KC-MW-07 0620
20F0067-05	TRIP BLANK 0620
BF00478-BLK1	Blank
BF00478-BS1	LCS
BF00478-BSD1	LCS Dup

Batch ID: BF00479 **General Method:** Volatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
20F0067-01RE1	KC-MW-01 0620
20F0067-06RE1	KC-MW-DUP 0620
BF00479-BLK1	Blank
BF00479-BS1	LCS
BF00479-BSD1	LCS Dup

No Sample Nonconformances Found

Notes: Other nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions:
LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate

Case Narrative Non-Conformance Summary

Laboratory:	York Analytical Laboratories, Inc.	Client:	
Project:		Lab Project No:	
Laboratory Sample ID(s):	-01 - -06	Sampling Date(s):	06/01/2020 - 06/01/2020
Review Date(s):	-	Laboratory Reviewer(s):	

QC Sample Nonconformances

Batch ID: BF00209 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BF00209-BLK1	Beryllium - 7440-41-7	0.0006 mg/L	Blank		-					
BF00209-BS1	Selenium - 7782-49-2	1.56 ug/mL	LCS	77.8	80-120	Low Bias				

Batch ID: Y0F0524 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y0F0524-CRL1	Nickel - 7440-02-0	0.002 ug/mL	Instrument RL Check	16.6	70-130	Low Bias				
Y0F0524-CRL1	Zinc - 7440-66-6	0.061 ug/mL	Instrument RL Check	246	70-130	High Bias				

Batch ID: Y0F0902 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y0F0902-CRL1	Zinc - 7440-66-6	0.050 ug/mL	Instrument RL Check	201	70-130	High Bias				

Batch ID: BF00209 **General Method:** Metals by ICP

YORK Sample ID	Client Sample ID
20F0067-01	KC-MW-01 0620
20F0067-02	KC-MW-02 0620
20F0067-03	KC-MW-05 0620
20F0067-06	KC-MW-DUP 0620
BF00209-BLK1	Blank
BF00209-BS1	LCS

No Sample Nonconformances Found

Notes: Other nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions:
LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate

Case Narrative Non-Conformance Summary

Laboratory:	York Analytical Laboratories, Inc.	Client:	
Project:		Lab Project No:	
Laboratory Sample ID(s):	-01	Sampling Date(s):	06/01/2020
Review Date(s):	-	Laboratory Reviewer(s):	

QC Sample Nonconformances

Batch ID: BF00340 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BF00340-BS1	Selenium - 7782-49-2	1.54 ug/mL	LCS	77.2	80-120	Low Bias				

Batch ID: Y0F0526 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y0F0526-CCV9	Chromium - 7440-47-3	1.10 ug/mL	Calibration Check	110	90-110	High Bias				
Y0F0526-CRL1	Nickel - 7440-02-0	0.002 ug/mL	Instrument RL Check	16.6	70-130	Low Bias				
Y0F0526-CRL1	Zinc - 7440-66-6	0.061 ug/mL	Instrument RL Check	246	70-130	High Bias				

Batch ID: BF00340 **General Method:** Metals by ICP

YORK Sample ID	Client Sample ID
20F0067-01	KC-MW-01 0620
BF00340-BLK1	Blank
BF00340-BS1	LCS

No Sample Nonconformances Found

Notes: Other nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions:
LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate

QC DATA QUALIFIERS

LabID	Analysis	Analyte	Qualifier	Definition
BF00412-BSD1	Volatile Organics, 8260 - Comprehensive	Dichlorodifluoromethane	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
BF00479-BLK1	Volatile Organics, 8260 - Comprehensive	Trichloroethylene	J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
BF00479-BLK1	Volatile Organics, 8260 - Comprehensive	cis-1,2-Dichloroethylene	J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
BF00478-BSD1	Volatile Organics, 8260 - Comprehensive	trans-1,3-Dichloropropylene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00478-BSD1	Volatile Organics, 8260 - Comprehensive	Cyclohexane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00478-BSD1	Volatile Organics, 8260 - Comprehensive	cis-1,3-Dichloropropylene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00478-BSD1	Volatile Organics, 8260 - Comprehensive	1,2,4-Trichlorobenzene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00478-BSD1	Volatile Organics, 8260 - Comprehensive	1,2,3-Trichlorobenzene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

LabID	Analysis	Analyte	Qualifier	Definition
BF00478-BS1	Volatile Organics, 8260 - Comprehensive	trans-1,3-Dichloropropylene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00478-BS1	Volatile Organics, 8260 - Comprehensive	Cyclohexane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00478-BS1	Volatile Organics, 8260 - Comprehensive	cis-1,3-Dichloropropylene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00478-BS1	Volatile Organics, 8260 - Comprehensive	1,2,3-Trichlorobenzene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00478-BS1	Volatile Organics, 8260 - Comprehensive	1,2,4-Trichlorobenzene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00412-BLK1	Volatile Organics, 8260 - Comprehensive	Chloromethane	J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
BF00412-BSD1	Volatile Organics, 8260 - Comprehensive	tert-Butylbenzene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00479-BS1	Volatile Organics, 8260 - Comprehensive	cis-1,2-Dichloroethylene	B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
BF00412-BSD1	Volatile Organics, 8260 - Comprehensive	Chloromethane	B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

LabID	Analysis	Analyte	Qualifier	Definition
BF00412-BSD1	Volatile Organics, 8260 - Comprehensive	Dibromochloromethane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00412-BSD1	Volatile Organics, 8260 - Comprehensive	Cyclohexane	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
BF00412-BSD1	Volatile Organics, 8260 - Comprehensive	Chloroethane	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
BF00412-BSD1	Volatile Organics, 8260 - Comprehensive	Bromoform	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00412-BSD1	Volatile Organics, 8260 - Comprehensive	Acrolein	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
BF00412-BSD1	Volatile Organics, 8260 - Comprehensive	Bromomethane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00412-BSD1	Volatile Organics, 8260 - Comprehensive	1,4-Dioxane	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
BF00412-BS1	Volatile Organics, 8260 - Comprehensive	Dichlorodifluoromethane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00412-BS1	Volatile Organics, 8260 - Comprehensive	Chloromethane	B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

LabID	Analysis	Analyte	Qualifier	Definition
BF00412-BS1	Volatile Organics, 8260 - Comprehensive	Bromomethane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00412-BS1	Volatile Organics, 8260 - Comprehensive	Methylcyclohexane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00412-BS1	Volatile Organics, 8260 - Comprehensive	Bromoform	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00412-BSD1	Volatile Organics, 8260 - Comprehensive	Vinyl Chloride	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
Y0F0821-CCV1	Volatile Organics, 8260 - Comprehensive	Acrolein	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y0F0932-CCV1	Volatile Organics, 8260 - Comprehensive	Methyl acetate	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y0F0932-CCV1	Volatile Organics, 8260 - Comprehensive	Chloromethane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y0F0932-CCV1	Volatile Organics, 8260 - Comprehensive	Bromomethane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

LabID	Analysis	Analyte	Qualifier	Definition
Y0F0932-CCV1	Volatile Organics, 8260 - Comprehensive	1,4-Dioxane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y0F0919-CCV1	Volatile Organics, 8260 - Comprehensive	Vinyl Chloride	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y0F0919-CCV1	Volatile Organics, 8260 - Comprehensive	Methyl acetate	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y0F0919-CCV1	Volatile Organics, 8260 - Comprehensive	tert-Butyl alcohol (TBA)	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y0F0919-CCV1	Volatile Organics, 8260 - Comprehensive	cis-1,3-Dichloropropylene	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y0F0919-CCV1	Volatile Organics, 8260 - Comprehensive	Chloromethane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y0F0919-CCV1	Volatile Organics, 8260 - Comprehensive	Bromomethane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y0F0919-CCV1	Volatile Organics, 8260 - Comprehensive	2-Butanone	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

LabID	Analysis	Analyte	Qualifier	Definition
Y0F0919-CCV1	Volatile Organics, 8260 - Comprehensive	1,4-Dioxane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y0F0821-CCV1	Volatile Organics, 8260 - Comprehensive	trans-1,4-dichloro-2-butene	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
BF00479-BS1	Volatile Organics, 8260 - Comprehensive	Bromomethane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00479-BSD1	Volatile Organics, 8260 - Comprehensive	Bromomethane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
Y0F0932-CCV1	Volatile Organics, 8260 - Comprehensive	tert-Butyl alcohol (TBA)	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
BF00479-BS1	Volatile Organics, 8260 - Comprehensive	n-Butylbenzene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00479-BS1	Volatile Organics, 8260 - Comprehensive	n-Propylbenzene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00479-BS1	Volatile Organics, 8260 - Comprehensive	sec-Butylbenzene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

LabID	Analysis	Analyte	Qualifier	Definition
BF00479-BS1	Volatile Organics, 8260 - Comprehensive	tert-Butylbenzene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
Y0F0821-CCV1	Volatile Organics, 8260 - Comprehensive	Dichlorodifluoromethane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
BF00479-BS1	Volatile Organics, 8260 - Comprehensive	Trichloroethylene	B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
Y0F0821-CCV1	Volatile Organics, 8260 - Comprehensive	Bromomethane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
BF00479-BSD1	Volatile Organics, 8260 - Comprehensive	Chloromethane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00479-BSD1	Volatile Organics, 8260 - Comprehensive	cis-1,2-Dichloroethylene	B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
BF00479-BSD1	Volatile Organics, 8260 - Comprehensive	tert-Butylbenzene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00479-BSD1	Volatile Organics, 8260 - Comprehensive	Trichloroethylene	B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
Y0F0821-CCV1	Volatile Organics, 8260 - Comprehensive	1,4-Dioxane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

LabID	Analysis	Analyte	Qualifier	Definition
BF00479-BS1	Volatile Organics, 8260 - Comprehensive	Methylcyclohexane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BF00479-BS1	Volatile Organics, 8260 - Comprehensive	Tetrachloroethylene	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

QC DATA QUALIFIERS

LabID	Analysis	Analyte	Qualifier	Definition
BF00209-BS1	Metals, Priority Pollutant	Beryllium	B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Analytical Batch Summary

Batch ID: BF00209 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
20F0067-01	KC-MW-01 0620	06/03/20
20F0067-02	KC-MW-02 0620	06/03/20
20F0067-03	KC-MW-05 0620	06/03/20
20F0067-06	KC-MW-DUP 0620	06/03/20
BF00209-BLK1	Blank	06/03/20
BF00209-BS1	LCS	06/03/20

Batch ID: BF00216 **Preparation Method:** EPA SW846-7470A **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
20F0067-01	KC-MW-01 0620	06/03/20
BF00216-BLK1	Blank	06/03/20
BF00216-BS1	LCS	06/03/20
BF00216-BS2	LCS	06/03/20

Batch ID: BF00337 **Preparation Method:** EPA 7473 water **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
20F0067-01	KC-MW-01 0620	06/05/20
20F0067-02	KC-MW-02 0620	06/05/20
20F0067-03	KC-MW-05 0620	06/05/20
20F0067-06	KC-MW-DUP 0620	06/05/20
BF00337-BLK1	Blank	06/05/20
BF00337-SRM1	Reference	06/05/20

Batch ID: BF00340 **Preparation Method:** EPA 3015A **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
20F0067-01	KC-MW-01 0620	06/05/20
BF00340-BLK1	Blank	06/05/20
BF00340-BS1	LCS	06/05/20

Batch ID: BF00412 **Preparation Method:** EPA 5030B **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
20F0067-01	KC-MW-01 0620	06/05/20
20F0067-06	KC-MW-DUP 0620	06/05/20
BF00412-BLK1	Blank	06/05/20
BF00412-BS1	LCS	06/05/20
BF00412-BSD1	LCS Dup	06/05/20

Batch ID: BF00478 **Preparation Method:** EPA 5030B **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
20F0067-02	KC-MW-02 0620	06/05/20
20F0067-03	KC-MW-05 0620	06/05/20
20F0067-04	KC-MW-07 0620	06/08/20
20F0067-05	TRIP BLANK 0620	06/08/20
BF00478-BLK1	Blank	06/08/20
BF00478-BS1	LCS	06/08/20
BF00478-BSD1	LCS Dup	06/08/20

Batch ID: BF00479 **Preparation Method:** EPA 5030B **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
20F0067-01RE1	KC-MW-01 0620	06/05/20
20F0067-06RE1	KC-MW-DUP 0620	06/05/20
BF00479-BLK1	Blank	06/08/20
BF00479-BS1	LCS	06/08/20
BF00479-BSD1	LCS Dup	06/08/20

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF00412 - EPA 5030B											
Blank (BF00412-BLK1)											
Prepared & Analyzed: 06/05/2020											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	0.48	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF00412 - EPA 5030B											
Blank (BF00412-BLK1)								Prepared & Analyzed: 06/05/2020			
n-Butylbenzene	ND	0.50	ug/L								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.89*		*"*	*10.0*		*98.9*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.66*		*"*	*10.0*		*96.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.10*		*"*	*10.0*		*91.0*	*79-122*				
LCS (BF00412-BS1)								Prepared & Analyzed: 06/05/2020			
1,1,1,2-Tetrachloroethane	8.4		ug/L	10.0		84.4	82-126				
1,1,1-Trichloroethane	8.8		"	10.0		88.2	78-136				
1,1,2,2-Tetrachloroethane	8.5		"	10.0		85.2	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.1		"	10.0		91.4	54-165				
1,1,2-Trichloroethane	8.7		"	10.0		86.7	82-123				
1,1-Dichloroethane	8.9		"	10.0		89.3	82-129				
1,1-Dichloroethylene	8.8		"	10.0		88.5	68-138				
1,2,3-Trichlorobenzene	8.8		"	10.0		87.9	76-136				
1,2,3-Trichloropropane	8.8		"	10.0		88.0	77-128				
1,2,4-Trichlorobenzene	8.9		"	10.0		89.0	76-137				
1,2,4-Trimethylbenzene	9.1		"	10.0		91.4	82-132				
1,2-Dibromo-3-chloropropane	7.5		"	10.0		75.0	45-147				
1,2-Dibromoethane	8.6		"	10.0		86.5	83-124				
1,2-Dichlorobenzene	9.1		"	10.0		91.0	79-123				
1,2-Dichloroethane	8.8		"	10.0		87.9	73-132				
1,2-Dichloropropane	8.2		"	10.0		82.3	78-126				
1,3,5-Trimethylbenzene	9.1		"	10.0		91.2	80-131				
1,3-Dichlorobenzene	8.9		"	10.0		89.2	86-122				
1,4-Dichlorobenzene	8.9		"	10.0		89.4	85-124				
1,4-Dioxane	110		"	210		53.2	10-349				
2-Butanone	9.4		"	10.0		94.4	49-152				
2-Hexanone	8.8		"	10.0		88.5	51-146				
4-Methyl-2-pentanone	8.4		"	10.0		83.8	57-145				
Acetone	8.6		"	10.0		85.7	14-150				
Acrolein	1.5		"	10.0		15.2	10-153				
Acrylonitrile	9.7		"	10.0		97.2	51-150				
Benzene	9.1		"	10.0		91.2	85-126				
Bromochloromethane	8.5		"	10.0		85.4	77-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF00412 - EPA 5030B											
LCS (BF00412-BS1)								Prepared & Analyzed: 06/05/2020			
Bromodichloromethane	8.1		ug/L	10.0		80.9	79-128				
Bromoform	7.3		"	10.0		72.6	78-133	Low Bias			
Bromomethane	1.1		"	10.0		10.8	43-168	Low Bias			
Carbon disulfide	8.1		"	10.0		80.9	68-146				
Carbon tetrachloride	8.2		"	10.0		81.5	77-141				
Chlorobenzene	8.9		"	10.0		89.4	88-120				
Chloroethane	8.7		"	10.0		87.1	65-136				
Chloroform	9.3		"	10.0		92.8	82-128				
Chloromethane	8.6		"	10.0		86.4	43-155				
cis-1,2-Dichloroethylene	9.6		"	10.0		95.5	83-129				
cis-1,3-Dichloropropylene	8.2		"	10.0		82.4	80-131				
Cyclohexane	7.6		"	10.0		76.0	63-149				
Dibromochloromethane	8.1		"	10.0		80.9	80-130				
Dibromomethane	8.3		"	10.0		82.7	72-134				
Dichlorodifluoromethane	4.0		"	10.0		40.4	44-144	Low Bias			
Ethyl Benzene	9.1		"	10.0		91.4	80-131				
Hexachlorobutadiene	10		"	10.0		103	67-146				
Isopropylbenzene	8.6		"	10.0		85.8	76-140				
Methyl acetate	8.5		"	10.0		85.1	51-139				
Methyl tert-butyl ether (MTBE)	9.3		"	10.0		93.1	76-135				
Methylcyclohexane	7.0		"	10.0		70.0	72-143	Low Bias			
Methylene chloride	9.7		"	10.0		96.7	55-137				
n-Butylbenzene	9.6		"	10.0		95.9	79-132				
n-Propylbenzene	8.8		"	10.0		87.6	78-133				
o-Xylene	9.0		"	10.0		90.5	78-130				
p- & m- Xylenes	18		"	20.0		91.0	77-133				
p-Isopropyltoluene	9.7		"	10.0		97.4	81-136				
sec-Butylbenzene	10		"	10.0		99.5	79-137				
Styrene	9.4		"	10.0		93.9	67-132				
tert-Butyl alcohol (TBA)	51		"	50.0		102	25-162				
tert-Butylbenzene	8.7		"	10.0		87.1	77-138				
Tetrachloroethylene	8.8		"	10.0		87.9	82-131				
Toluene	8.6		"	10.0		86.1	80-127				
trans-1,2-Dichloroethylene	9.3		"	10.0		93.3	80-132				
trans-1,3-Dichloropropylene	8.0		"	10.0		80.3	78-131				
trans-1,4-dichloro-2-butene	7.1		"	10.0		70.8	63-141				
Trichloroethylene	8.3		"	10.0		83.0	82-128				
Trichlorofluoromethane	8.2		"	10.0		82.5	67-139				
Vinyl Chloride	7.9		"	10.0		79.4	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.83*		*"*	*10.0*		*98.3*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.77*		*"*	*10.0*		*97.7*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.36*		*"*	*10.0*		*93.6*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF00412 - EPA 5030B											
LCS Dup (BF00412-BSD1)							Prepared & Analyzed: 06/05/2020				
1,1,1,2-Tetrachloroethane	8.3		ug/L	10.0		83.1	82-126		1.55	30	
1,1,1-Trichloroethane	9.7		"	10.0		96.6	78-136		9.09	30	
1,1,2,2-Tetrachloroethane	8.2		"	10.0		81.5	76-129		4.44	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		115	54-165		22.6	30	
1,1,2-Trichloroethane	8.3		"	10.0		83.4	82-123		3.88	30	
1,1-Dichloroethane	9.3		"	10.0		93.3	82-129		4.38	30	
1,1-Dichloroethylene	11		"	10.0		108	68-138		19.9	30	
1,2,3-Trichlorobenzene	8.3		"	10.0		83.0	76-136		5.73	30	
1,2,3-Trichloropropane	8.3		"	10.0		83.3	77-128		5.49	30	
1,2,4-Trichlorobenzene	8.4		"	10.0		84.4	76-137		5.31	30	
1,2,4-Trimethylbenzene	8.8		"	10.0		87.5	82-132		4.36	30	
1,2-Dibromo-3-chloropropane	6.8		"	10.0		67.9	45-147		9.94	30	
1,2-Dibromoethane	8.6		"	10.0		85.7	83-124		0.929	30	
1,2-Dichlorobenzene	8.7		"	10.0		87.2	79-123		4.26	30	
1,2-Dichloroethane	8.8		"	10.0		88.1	73-132		0.227	30	
1,2-Dichloropropane	8.4		"	10.0		83.5	78-126		1.45	30	
1,3,5-Trimethylbenzene	8.7		"	10.0		86.9	80-131		4.83	30	
1,3-Dichlorobenzene	8.7		"	10.0		86.6	86-122		2.96	30	
1,4-Dichlorobenzene	8.7		"	10.0		86.9	85-124		2.84	30	
1,4-Dioxane	290		"	210		138	10-349		88.5	30	Non-dir.
2-Butanone	9.0		"	10.0		89.5	49-152		5.33	30	
2-Hexanone	8.2		"	10.0		82.2	51-146		7.38	30	
4-Methyl-2-pentanone	7.8		"	10.0		78.5	57-145		6.53	30	
Acetone	8.5		"	10.0		84.6	14-150		1.29	30	
Acrolein	10		"	10.0		102	10-153		148	30	Non-dir.
Acrylonitrile	9.4		"	10.0		94.5	51-150		2.82	30	
Benzene	9.6		"	10.0		96.2	85-126		5.34	30	
Bromochloromethane	8.7		"	10.0		87.4	77-128		2.31	30	
Bromodichloromethane	8.0		"	10.0		80.2	79-128		0.869	30	
Bromoform	7.1		"	10.0		71.4	78-133	Low Bias	1.67	30	
Bromomethane	1.5		"	10.0		15.3	43-168	Low Bias	34.5	30	Non-dir.
Carbon disulfide	10		"	10.0		102	68-146		22.7	30	
Carbon tetrachloride	9.2		"	10.0		91.5	77-141		11.6	30	
Chlorobenzene	8.9		"	10.0		89.3	88-120		0.112	30	
Chloroethane	13		"	10.0		127	65-136		37.4	30	Non-dir.
Chloroform	9.5		"	10.0		94.8	82-128		2.13	30	
Chloromethane	9.8		"	10.0		98.5	43-155		13.1	30	
cis-1,2-Dichloroethylene	10		"	10.0		99.5	83-129		4.10	30	
cis-1,3-Dichloropropylene	8.3		"	10.0		83.3	80-131		1.09	30	
Cyclohexane	11		"	10.0		110	63-149		36.7	30	Non-dir.
Dibromochloromethane	7.9		"	10.0		78.9	80-130	Low Bias	2.50	30	
Dibromomethane	8.1		"	10.0		81.3	72-134		1.71	30	
Dichlorodifluoromethane	8.3		"	10.0		83.2	44-144		69.3	30	Non-dir.
Ethyl Benzene	9.1		"	10.0		90.9	80-131		0.549	30	
Hexachlorobutadiene	9.1		"	10.0		91.4	67-146		12.3	30	
Isopropylbenzene	8.2		"	10.0		82.5	76-140		3.92	30	
Methyl acetate	9.6		"	10.0		95.8	51-139		11.8	30	
Methyl tert-butyl ether (MTBE)	9.0		"	10.0		90.0	76-135		3.39	30	
Methylcyclohexane	9.3		"	10.0		93.4	72-143		28.6	30	
Methylene chloride	10		"	10.0		102	55-137		5.04	30	
n-Butylbenzene	8.8		"	10.0		88.1	79-132		8.48	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF00412 - EPA 5030B											
LCS Dup (BF00412-BSD1)								Prepared & Analyzed: 06/05/2020			
n-Propylbenzene	8.3		ug/L	10.0		83.1	78-133		5.27	30	
o-Xylene	8.9		"	10.0		89.4	78-130		1.22	30	
p- & m- Xylenes	18		"	20.0		90.3	77-133		0.717	30	
p-Isopropyltoluene	8.9		"	10.0		89.0	81-136		9.01	30	
sec-Butylbenzene	8.9		"	10.0		89.2	79-137		10.9	30	
Styrene	9.2		"	10.0		91.6	67-132		2.48	30	
tert-Butyl alcohol (TBA)	50		"	50.0		99.0	25-162		3.02	30	
tert-Butylbenzene	6.9		"	10.0		69.4	77-138	Low Bias	22.6	30	
Tetrachloroethylene	9.1		"	10.0		91.2	82-131		3.69	30	
Toluene	8.7		"	10.0		87.3	80-127		1.38	30	
trans-1,2-Dichloroethylene	10		"	10.0		103	80-132		9.49	30	
trans-1,3-Dichloropropylene	8.0		"	10.0		79.8	78-131		0.625	30	
trans-1,4-dichloro-2-butene	6.9		"	10.0		68.9	63-141		2.72	30	
Trichloroethylene	8.7		"	10.0		86.8	82-128		4.48	30	
Trichlorofluoromethane	11		"	10.0		110	67-139		28.9	30	
Vinyl Chloride	13		"	10.0		131	58-145		49.1	30	Non-dir.
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.95*		*"*	*10.0*		*99.5*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.65*		*"*	*10.0*		*96.5*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.36*		*"*	*10.0*		*93.6*	*79-122*				
Batch BF00478 - EPA 5030B											
Blank (BF00478-BLK1)								Prepared: 06/08/2020 Analyzed: 06/09/2020			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF00478 - EPA 5030B											
Blank (BF00478-BLK1)											
Prepared: 06/08/2020 Analyzed: 06/09/2020											
Bromodichloromethane	ND	0.50	ug/L								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF00478 - EPA 5030B											
LCS (BF00478-BS1)								Prepared: 06/08/2020 Analyzed: 06/09/2020			
1,1,1,2-Tetrachloroethane	9.7		ug/L	10.0		96.6	82-126				
1,1,1-Trichloroethane	11		"	10.0		108	78-136				
1,1,2,2-Tetrachloroethane	9.7		"	10.0		97.3	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		106	54-165				
1,1,2-Trichloroethane	10		"	10.0		102	82-123				
1,1-Dichloroethane	10		"	10.0		101	82-129				
1,1-Dichloroethylene	11		"	10.0		105	68-138				
1,2,3-Trichlorobenzene	7.2		"	10.0		72.2	76-136	Low Bias			
1,2,3-Trichloropropane	10		"	10.0		99.5	77-128				
1,2,4-Trichlorobenzene	7.5		"	10.0		74.7	76-137	Low Bias			
1,2,4-Trimethylbenzene	9.6		"	10.0		96.1	82-132				
1,2-Dibromo-3-chloropropane	9.8		"	10.0		97.6	45-147				
1,2-Dibromoethane	9.5		"	10.0		94.7	83-124				
1,2-Dichlorobenzene	9.4		"	10.0		93.8	79-123				
1,2-Dichloroethane	9.9		"	10.0		99.0	73-132				
1,2-Dichloropropane	9.6		"	10.0		95.7	78-126				
1,3,5-Trimethylbenzene	9.6		"	10.0		96.4	80-131				
1,3-Dichlorobenzene	9.1		"	10.0		90.9	86-122				
1,4-Dichlorobenzene	8.9		"	10.0		88.9	85-124				
1,4-Dioxane	220		"	210		105	10-349				
2-Butanone	9.7		"	10.0		96.8	49-152				
2-Hexanone	9.8		"	10.0		97.7	51-146				
4-Methyl-2-pentanone	9.5		"	10.0		94.7	57-145				
Acetone	11		"	10.0		111	14-150				
Acrolein	7.9		"	10.0		79.2	10-153				
Acrylonitrile	9.0		"	10.0		90.3	51-150				
Benzene	11		"	10.0		110	85-126				
Bromochloromethane	9.5		"	10.0		95.3	77-128				
Bromodichloromethane	9.7		"	10.0		96.7	79-128				
Bromoform	8.8		"	10.0		87.7	78-133				
Bromomethane	8.1		"	10.0		81.4	43-168				
Carbon disulfide	11		"	10.0		108	68-146				
Carbon tetrachloride	10		"	10.0		101	77-141				
Chlorobenzene	9.7		"	10.0		96.6	88-120				
Chloroethane	13		"	10.0		127	65-136				
Chloroform	10		"	10.0		101	82-128				
Chloromethane	8.7		"	10.0		86.6	43-155				
cis-1,2-Dichloroethylene	8.9		"	10.0		89.2	83-129				
cis-1,3-Dichloropropylene	8.0		"	10.0		79.6	80-131	Low Bias			
Cyclohexane	4.7		"	10.0		47.1	63-149	Low Bias			
Dibromochloromethane	9.3		"	10.0		92.7	80-130				
Dibromomethane	9.4		"	10.0		93.5	72-134				
Dichlorodifluoromethane	11		"	10.0		111	44-144				
Ethyl Benzene	11		"	10.0		113	80-131				
Hexachlorobutadiene	7.5		"	10.0		75.4	67-146				
Isopropylbenzene	14		"	10.0		137	76-140				
Methyl acetate	7.8		"	10.0		77.8	51-139				
Methyl tert-butyl ether (MTBE)	9.8		"	10.0		97.6	76-135				
Methylcyclohexane	10		"	10.0		101	72-143				
Methylene chloride	9.5		"	10.0		94.7	55-137				
n-Butylbenzene	10		"	10.0		101	79-132				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF00478 - EPA 5030B											
LCS (BF00478-BS1)								Prepared: 06/08/2020 Analyzed: 06/09/2020			
n-Propylbenzene	13		ug/L	10.0		127	78-133				
o-Xylene	10		"	10.0		104	78-130				
p- & m- Xylenes	19		"	20.0		97.4	77-133				
p-Isopropyltoluene	9.4		"	10.0		93.5	81-136				
sec-Butylbenzene	13		"	10.0		126	79-137				
Styrene	9.9		"	10.0		99.3	67-132				
tert-Butyl alcohol (TBA)	42		"	50.0		84.0	25-162				
tert-Butylbenzene	8.7		"	10.0		86.6	77-138				
Tetrachloroethylene	9.2		"	10.0		91.9	82-131				
Toluene	9.8		"	10.0		98.1	80-127				
trans-1,2-Dichloroethylene	10		"	10.0		104	80-132				
trans-1,3-Dichloropropylene	7.7		"	10.0		77.1	78-131	Low Bias			
trans-1,4-dichloro-2-butene	9.4		"	10.0		93.7	63-141				
Trichloroethylene	10		"	10.0		99.7	82-128				
Trichlorofluoromethane	12		"	10.0		118	67-139				
Vinyl Chloride	10		"	10.0		104	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.95*		*"*	*10.0*		*99.5*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.79*		*"*	*10.0*		*97.9*	*79-122*				
LCS Dup (BF00478-BSD1)								Prepared: 06/08/2020 Analyzed: 06/09/2020			
1,1,1,2-Tetrachloroethane	9.4		ug/L	10.0		94.0	82-126		2.73	30	
1,1,1-Trichloroethane	9.9		"	10.0		98.7	78-136		8.63	30	
1,1,2,2-Tetrachloroethane	9.6		"	10.0		96.5	76-129		0.826	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		106	54-165		0.659	30	
1,1,2-Trichloroethane	9.8		"	10.0		98.5	82-123		3.69	30	
1,1-Dichloroethane	9.6		"	10.0		96.1	82-129		5.37	30	
1,1-Dichloroethylene	10		"	10.0		102	68-138		3.18	30	
1,2,3-Trichlorobenzene	6.9		"	10.0		69.4	76-136	Low Bias	3.95	30	
1,2,3-Trichloropropane	9.6		"	10.0		95.5	77-128		4.10	30	
1,2,4-Trichlorobenzene	7.4		"	10.0		74.1	76-137	Low Bias	0.806	30	
1,2,4-Trimethylbenzene	9.2		"	10.0		92.3	82-132		4.03	30	
1,2-Dibromo-3-chloropropane	9.2		"	10.0		91.5	45-147		6.45	30	
1,2-Dibromoethane	9.4		"	10.0		94.3	83-124		0.423	30	
1,2-Dichlorobenzene	9.1		"	10.0		91.4	79-123		2.59	30	
1,2-Dichloroethane	9.1		"	10.0		90.7	73-132		8.75	30	
1,2-Dichloropropane	9.4		"	10.0		93.8	78-126		2.01	30	
1,3,5-Trimethylbenzene	9.3		"	10.0		92.8	80-131		3.81	30	
1,3-Dichlorobenzene	8.9		"	10.0		88.7	86-122		2.45	30	
1,4-Dichlorobenzene	8.8		"	10.0		88.2	85-124		0.791	30	
1,4-Dioxane	280		"	210		132	10-349		22.4	30	
2-Butanone	8.3		"	10.0		83.2	49-152		15.1	30	
2-Hexanone	9.4		"	10.0		94.1	51-146		3.75	30	
4-Methyl-2-pentanone	9.2		"	10.0		92.4	57-145		2.46	30	
Acetone	10		"	10.0		102	14-150		7.88	30	
Acrolein	8.2		"	10.0		82.5	10-153		4.08	30	
Acrylonitrile	9.7		"	10.0		97.4	51-150		7.57	30	
Benzene	11		"	10.0		109	85-126		0.824	30	
Bromochloromethane	9.3		"	10.0		92.8	77-128		2.66	30	
Bromodichloromethane	9.1		"	10.0		91.1	79-128		5.96	30	
Bromoform	8.5		"	10.0		84.8	78-133		3.36	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF00478 - EPA 5030B											
LCS Dup (BF00478-BSD1)								Prepared: 06/08/2020 Analyzed: 06/09/2020			
Bromomethane	7.6		ug/L	10.0		76.1	43-168		6.73	30	
Carbon disulfide	11		"	10.0		107	68-146		1.40	30	
Carbon tetrachloride	9.5		"	10.0		95.4	77-141		5.90	30	
Chlorobenzene	9.4		"	10.0		94.2	88-120		2.52	30	
Chloroethane	11		"	10.0		114	65-136		10.1	30	
Chloroform	9.6		"	10.0		96.0	82-128		5.27	30	
Chloromethane	8.8		"	10.0		88.3	43-155		1.94	30	
cis-1,2-Dichloroethylene	8.6		"	10.0		85.5	83-129		4.24	30	
cis-1,3-Dichloropropylene	7.8		"	10.0		77.7	80-131	Low Bias	2.42	30	
Cyclohexane	4.7		"	10.0		47.3	63-149	Low Bias	0.424	30	
Dibromochloromethane	8.9		"	10.0		88.6	80-130		4.52	30	
Dibromomethane	9.4		"	10.0		93.7	72-134		0.214	30	
Dichlorodifluoromethane	10		"	10.0		100	44-144		9.66	30	
Ethyl Benzene	11		"	10.0		110	80-131		2.69	30	
Hexachlorobutadiene	7.3		"	10.0		73.0	67-146		3.23	30	
Isopropylbenzene	13		"	10.0		134	76-140		2.59	30	
Methyl acetate	8.3		"	10.0		82.6	51-139		5.99	30	
Methyl tert-butyl ether (MTBE)	9.7		"	10.0		96.6	76-135		1.03	30	
Methylcyclohexane	10		"	10.0		102	72-143		0.887	30	
Methylene chloride	8.9		"	10.0		88.9	55-137		6.32	30	
n-Butylbenzene	9.8		"	10.0		98.3	79-132		2.91	30	
n-Propylbenzene	12		"	10.0		124	78-133		1.91	30	
o-Xylene	9.9		"	10.0		98.8	78-130		5.61	30	
p- & m- Xylenes	19		"	20.0		93.4	77-133		4.20	30	
p-Isopropyltoluene	9.2		"	10.0		91.7	81-136		1.94	30	
sec-Butylbenzene	12		"	10.0		122	79-137		2.90	30	
Styrene	9.5		"	10.0		95.4	67-132		4.01	30	
tert-Butyl alcohol (TBA)	42		"	50.0		83.5	25-162		0.669	30	
tert-Butylbenzene	8.3		"	10.0		83.4	77-138		3.76	30	
Tetrachloroethylene	9.1		"	10.0		90.8	82-131		1.20	30	
Toluene	9.6		"	10.0		96.3	80-127		1.85	30	
trans-1,2-Dichloroethylene	10		"	10.0		102	80-132		2.53	30	
trans-1,3-Dichloropropylene	7.4		"	10.0		74.4	78-131	Low Bias	3.56	30	
trans-1,4-dichloro-2-butene	11		"	10.0		105	63-141		11.7	30	
Trichloroethylene	9.5		"	10.0		94.6	82-128		5.25	30	
Trichlorofluoromethane	11		"	10.0		107	67-139		10.0	30	
Vinyl Chloride	9.5		"	10.0		94.9	58-145		9.05	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.96*		*"*	*10.0*		*99.6*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.82*		*"*	*10.0*		*98.2*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF00479 - EPA 5030B											
Blank (BF00479-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	0.32	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								

Prepared & Analyzed: 06/08/2020

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF00479 - EPA 5030B											
Blank (BF00479-BLK1)											
Prepared & Analyzed: 06/08/2020											
n-Propylbenzene	ND	0.50	ug/L								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	0.23	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.66*		*"*	*10.0*		*96.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.22*		*"*	*10.0*		*92.2*	*79-122*				
LCS (BF00479-BS1)											
Prepared & Analyzed: 06/08/2020											
1,1,1,2-Tetrachloroethane	9.1		ug/L	10.0		91.2	82-126				
1,1,1-Trichloroethane	9.1		"	10.0		90.6	78-136				
1,1,2,2-Tetrachloroethane	9.2		"	10.0		91.7	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.4		"	10.0		94.5	54-165				
1,1,2-Trichloroethane	9.2		"	10.0		92.2	82-123				
1,1-Dichloroethane	9.2		"	10.0		92.5	82-129				
1,1-Dichloroethylene	9.8		"	10.0		97.9	68-138				
1,2,3-Trichlorobenzene	9.0		"	10.0		89.5	76-136				
1,2,3-Trichloropropane	9.7		"	10.0		96.6	77-128				
1,2,4-Trichlorobenzene	9.2		"	10.0		92.4	76-137				
1,2,4-Trimethylbenzene	8.9		"	10.0		88.7	82-132				
1,2-Dibromo-3-chloropropane	8.1		"	10.0		80.6	45-147				
1,2-Dibromoethane	9.4		"	10.0		93.6	83-124				
1,2-Dichlorobenzene	9.4		"	10.0		94.1	79-123				
1,2-Dichloroethane	9.8		"	10.0		98.5	73-132				
1,2-Dichloropropane	8.5		"	10.0		85.0	78-126				
1,3,5-Trimethylbenzene	8.5		"	10.0		84.6	80-131				
1,3-Dichlorobenzene	9.2		"	10.0		91.8	86-122				
1,4-Dichlorobenzene	9.3		"	10.0		92.6	85-124				
1,4-Dioxane	390		"	210		187	10-349				
2-Butanone	11		"	10.0		106	49-152				
2-Hexanone	9.3		"	10.0		93.0	51-146				
4-Methyl-2-pentanone	8.9		"	10.0		88.7	57-145				
Acetone	9.9		"	10.0		99.1	14-150				
Acrolein	11		"	10.0		109	10-153				
Acrylonitrile	11		"	10.0		115	51-150				
Benzene	9.5		"	10.0		95.1	85-126				
Bromochloromethane	10		"	10.0		100	77-128				
Bromodichloromethane	8.7		"	10.0		86.8	79-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF00479 - EPA 5030B											
LCS (BF00479-BS1)								Prepared & Analyzed: 06/08/2020			
Bromoform	8.7		ug/L	10.0		87.3	78-133				
Bromomethane	1.5		"	10.0		15.3	43-168	Low Bias			
Carbon disulfide	9.2		"	10.0		92.5	68-146				
Carbon tetrachloride	8.3		"	10.0		82.8	77-141				
Chlorobenzene	9.1		"	10.0		91.2	88-120				
Chloroethane	12		"	10.0		120	65-136				
Chloroform	9.7		"	10.0		96.9	82-128				
Chloromethane	15		"	10.0		152	43-155				
cis-1,2-Dichloroethylene	11		"	10.0		112	83-129				
cis-1,3-Dichloropropylene	8.8		"	10.0		87.6	80-131				
Cyclohexane	8.7		"	10.0		87.2	63-149				
Dibromochloromethane	9.0		"	10.0		90.3	80-130				
Dibromomethane	9.0		"	10.0		90.0	72-134				
Dichlorodifluoromethane	12		"	10.0		117	44-144				
Ethyl Benzene	8.7		"	10.0		87.2	80-131				
Hexachlorobutadiene	8.3		"	10.0		82.7	67-146				
Isopropylbenzene	7.8		"	10.0		77.7	76-140				
Methyl acetate	11		"	10.0		105	51-139				
Methyl tert-butyl ether (MTBE)	10		"	10.0		101	76-135				
Methylcyclohexane	6.4		"	10.0		64.2	72-143	Low Bias			
Methylene chloride	10		"	10.0		105	55-137				
n-Butylbenzene	7.8		"	10.0		78.0	79-132	Low Bias			
n-Propylbenzene	7.8		"	10.0		77.5	78-133	Low Bias			
o-Xylene	9.0		"	10.0		90.1	78-130				
p- & m- Xylenes	17		"	20.0		87.1	77-133				
p-Isopropyltoluene	8.2		"	10.0		81.6	81-136				
sec-Butylbenzene	7.8		"	10.0		78.0	79-137	Low Bias			
Styrene	9.6		"	10.0		95.7	67-132				
tert-Butyl alcohol (TBA)	61		"	50.0		122	25-162				
tert-Butylbenzene	6.5		"	10.0		64.6	77-138	Low Bias			
Tetrachloroethylene	8.0		"	10.0		80.4	82-131	Low Bias			
Toluene	8.5		"	10.0		85.2	80-127				
trans-1,2-Dichloroethylene	9.8		"	10.0		98.0	80-132				
trans-1,3-Dichloropropylene	8.7		"	10.0		87.3	78-131				
trans-1,4-dichloro-2-butene	7.8		"	10.0		78.0	63-141				
Trichloroethylene	8.9		"	10.0		88.6	82-128				
Trichlorofluoromethane	9.5		"	10.0		94.8	67-139				
Vinyl Chloride	11		"	10.0		106	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.48*		*"*	*10.0*		*94.8*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.50*		*"*	*10.0*		*95.0*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF00479 - EPA 5030B											
LCS Dup (BF00479-BSD1)								Prepared & Analyzed: 06/08/2020			
1,1,1,2-Tetrachloroethane	8.9		ug/L	10.0		88.7	82-126		2.78	30	
1,1,1-Trichloroethane	9.7		"	10.0		96.9	78-136		6.72	30	
1,1,2,2-Tetrachloroethane	8.6		"	10.0		86.1	76-129		6.30	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		107	54-165		12.4	30	
1,1,2-Trichloroethane	8.9		"	10.0		89.1	82-123		3.42	30	
1,1-Dichloroethane	9.3		"	10.0		92.7	82-129		0.216	30	
1,1-Dichloroethylene	10		"	10.0		104	68-138		5.95	30	
1,2,3-Trichlorobenzene	8.5		"	10.0		84.7	76-136		5.51	30	
1,2,3-Trichloropropane	8.9		"	10.0		88.6	77-128		8.64	30	
1,2,4-Trichlorobenzene	8.9		"	10.0		88.6	76-137		4.20	30	
1,2,4-Trimethylbenzene	9.0		"	10.0		89.5	82-132		0.898	30	
1,2-Dibromo-3-chloropropane	7.6		"	10.0		75.5	45-147		6.53	30	
1,2-Dibromoethane	9.0		"	10.0		89.9	83-124		4.03	30	
1,2-Dichlorobenzene	9.1		"	10.0		91.1	79-123		3.24	30	
1,2-Dichloroethane	9.1		"	10.0		90.8	73-132		8.14	30	
1,2-Dichloropropane	8.6		"	10.0		85.9	78-126		1.05	30	
1,3,5-Trimethylbenzene	8.8		"	10.0		87.5	80-131		3.37	30	
1,3-Dichlorobenzene	8.9		"	10.0		88.9	86-122		3.21	30	
1,4-Dichlorobenzene	9.0		"	10.0		90.0	85-124		2.85	30	
1,4-Dioxane	400		"	210		193	10-349		2.96	30	
2-Butanone	9.9		"	10.0		98.7	49-152		7.51	30	
2-Hexanone	8.7		"	10.0		87.0	51-146		6.67	30	
4-Methyl-2-pentanone	8.4		"	10.0		84.3	57-145		5.09	30	
Acetone	9.9		"	10.0		98.7	14-150		0.404	30	
Acrolein	10		"	10.0		104	10-153		4.90	30	
Acrylonitrile	11		"	10.0		105	51-150		8.55	30	
Benzene	9.6		"	10.0		96.5	85-126		1.46	30	
Bromochloromethane	9.2		"	10.0		92.1	77-128		8.42	30	
Bromodichloromethane	8.5		"	10.0		85.1	79-128		1.98	30	
Bromoform	8.2		"	10.0		82.5	78-133		5.65	30	
Bromomethane	1.6		"	10.0		16.3	43-168	Low Bias	6.33	30	
Carbon disulfide	9.8		"	10.0		97.5	68-146		5.26	30	
Carbon tetrachloride	9.1		"	10.0		91.3	77-141		9.76	30	
Chlorobenzene	9.2		"	10.0		92.4	88-120		1.31	30	
Chloroethane	12		"	10.0		125	65-136		3.75	30	
Chloroform	9.6		"	10.0		95.9	82-128		1.04	30	
Chloromethane	16		"	10.0		160	43-155	High Bias	5.31	30	
cis-1,2-Dichloroethylene	11		"	10.0		107	83-129		4.40	30	
cis-1,3-Dichloropropylene	8.6		"	10.0		86.1	80-131		1.73	30	
Cyclohexane	10		"	10.0		102	63-149		15.3	30	
Dibromochloromethane	8.6		"	10.0		86.4	80-130		4.41	30	
Dibromomethane	8.6		"	10.0		86.1	72-134		4.43	30	
Dichlorodifluoromethane	12		"	10.0		122	44-144		4.52	30	
Ethyl Benzene	9.2		"	10.0		92.3	80-131		5.68	30	
Hexachlorobutadiene	8.9		"	10.0		89.3	67-146		7.67	30	
Isopropylbenzene	8.2		"	10.0		82.4	76-140		5.87	30	
Methyl acetate	9.7		"	10.0		97.2	51-139		7.91	30	
Methyl tert-butyl ether (MTBE)	9.4		"	10.0		94.3	76-135		6.86	30	
Methylcyclohexane	8.7		"	10.0		86.8	72-143		29.9	30	
Methylene chloride	10		"	10.0		101	55-137		3.99	30	
n-Butylbenzene	8.6		"	10.0		86.1	79-132		9.87	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF00479 - EPA 5030B											
LCS Dup (BF00479-BSD1)								Prepared & Analyzed: 06/08/2020			
n-Propylbenzene	8.3		ug/L	10.0		83.0	78-133		6.85	30	
o-Xylene	9.2		"	10.0		91.8	78-130		1.87	30	
p- & m- Xylenes	18		"	20.0		91.6	77-133		5.09	30	
p-Isopropyltoluene	8.8		"	10.0		87.6	81-136		7.09	30	
sec-Butylbenzene	8.8		"	10.0		88.0	79-137		12.0	30	
Styrene	9.6		"	10.0		95.5	67-132		0.209	30	
tert-Butyl alcohol (TBA)	60		"	50.0		121	25-162		1.19	30	
tert-Butylbenzene	7.0		"	10.0		70.3	77-138	Low Bias	8.45	30	
Tetrachloroethylene	9.2		"	10.0		91.8	82-131		13.2	30	
Toluene	8.9		"	10.0		88.8	80-127		4.14	30	
trans-1,2-Dichloroethylene	10		"	10.0		102	80-132		4.00	30	
trans-1,3-Dichloropropylene	8.5		"	10.0		85.0	78-131		2.67	30	
trans-1,4-dichloro-2-butene	7.4		"	10.0		73.7	63-141		5.67	30	
Trichloroethylene	9.2		"	10.0		92.0	82-128		3.77	30	
Trichlorofluoromethane	10		"	10.0		103	67-139		8.68	30	
Vinyl Chloride	11		"	10.0		115	58-145		8.17	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.0*		*"*	*10.0*		*100*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.57*		*"*	*10.0*		*95.7*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.21*		*"*	*10.0*		*92.1*	*79-122*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF00209 - EPA 3015A											
Blank (BF00209-BLK1)											Prepared: 06/03/2020 Analyzed: 06/05/2020
Antimony	ND	0.028	mg/L								
Arsenic	ND	0.017	"								
Beryllium	0.0006	0.0006	"								
Cadmium	ND	0.003	"								
Chromium	ND	0.006	"								
Copper	ND	0.022	"								
Lead	ND	0.006	"								
Nickel	ND	0.011	"								
Selenium	ND	0.028	"								
Silver	ND	0.006	"								
Thallium	ND	0.028	"								
Zinc	ND	0.028	"								
LCS (BF00209-BS1)											Prepared: 06/03/2020 Analyzed: 06/05/2020
Antimony	0.234		ug/mL	0.250		93.6	80-120				
Arsenic	1.78		"	2.00		88.9	80-120				
Beryllium	0.048		"	0.0500		95.0	80-120				
Cadmium	0.046		"	0.0500		92.4	80-120				
Chromium	0.203		"	0.200		101	80-120				
Copper	0.243		"	0.250		97.2	80-120				
Lead	0.460		"	0.500		92.0	80-120				
Nickel	0.491		"	0.500		98.2	80-120				
Selenium	1.56		"	2.00		77.8	80-120	Low Bias			
Silver	0.047		"	0.0500		94.8	80-120				
Thallium	1.87		"	2.00		93.5	80-120				
Zinc	0.475		"	0.500		94.9	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF00340 - EPA 3015A											
Blank (BF00340-BLK1)								Prepared & Analyzed: 06/05/2020			
Antimony - Dissolved	ND	0.028	mg/L								
Arsenic - Dissolved	ND	0.017	"								
Beryllium - Dissolved	ND	0.0006	"								
Cadmium - Dissolved	ND	0.003	"								
Chromium - Dissolved	ND	0.006	"								
Copper - Dissolved	ND	0.022	"								
Lead - Dissolved	ND	0.006	"								
Nickel - Dissolved	ND	0.011	"								
Selenium - Dissolved	ND	0.028	"								
Silver - Dissolved	ND	0.006	"								
Thallium - Dissolved	ND	0.028	"								
Zinc - Dissolved	ND	0.028	"								
LCS (BF00340-BS1)								Prepared & Analyzed: 06/05/2020			
Antimony - Dissolved	0.235		ug/mL	0.250		94.1	80-120				
Arsenic - Dissolved	1.76		"	2.00		87.9	80-120				
Beryllium - Dissolved	0.047		"	0.0500		94.3	80-120				
Cadmium - Dissolved	0.046		"	0.0500		92.0	80-120				
Chromium - Dissolved	0.202		"	0.200		101	80-120				
Copper - Dissolved	0.241		"	0.250		96.6	80-120				
Lead - Dissolved	0.457		"	0.500		91.3	80-120				
Nickel - Dissolved	0.487		"	0.500		97.5	80-120				
Selenium - Dissolved	1.54		"	2.00		77.2	80-120	Low Bias			
Silver - Dissolved	0.047		"	0.0500		93.6	80-120				
Thallium - Dissolved	1.86		"	2.00		93.0	80-120				
Zinc - Dissolved	0.475		"	0.500		95.1	80-120				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF00216 - EPA SW846-7470A											
Blank (BF00216-BLK1)								Prepared & Analyzed: 06/03/2020			
Mercury - Dissolved	ND	0.0002	mg/L								
LCS (BF00216-BS1)								Prepared & Analyzed: 06/03/2020			
Mercury - Dissolved	0.0020	0.0002	mg/L	0.00200		98.8	80-120				
LCS (BF00216-BS2)								Prepared & Analyzed: 06/03/2020			
Mercury - Dissolved	0.0020	0.0002	mg/L	0.00200		98.8	80-120				
Batch BF00337 - EPA 7473 water											
Blank (BF00337-BLK1)								Prepared & Analyzed: 06/05/2020			
Mercury	ND	0.00020	mg/L								
Reference (BF00337-SRM1)								Prepared & Analyzed: 06/05/2020			
Mercury	0.0105		mg/L	0.0100		105	70-130				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20F0067-01	KC-MW-01 0620	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20F0067-02	KC-MW-02 0620	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20F0067-03	KC-MW-05 0620	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20F0067-04	KC-MW-07 0620	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20F0067-05	TRIP BLANK 0620	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
20F0067-06	KC-MW-DUP 0620	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Laboratory Chain-of-Custody Record

York Project (SDG) No.: 20F0067

Samples Received: 06/02/2020 19:05 **By:** Terri Gale **Logged In:** 06/02/2020 13:52 **By:** Tom Gabrielson

Sample Conditions:

- [x] Custody Seals
- [x] Containers Intact
- [x] COC/Labels Agree
- [x] Preservation Confirmed
- [x] Cooler Temperature Confirmed
- [x] COC Complete
- [x] Chain of Custody Form Received
- [x] Appropriate Sample Volumes Received
- [x] Appropriate Sample Containers Submitted
- [x] Samples Submitted within Holding Times
- [ ] Corrective Action Form Required

Preparation Chain-of-Custody

Sample ID	Reason Prep	Prep Start Date	Prep End Date	Prep Analyst
20F0067-01	EPA 3015A	06/03/2020 15:02	06/03/2020 15:02	Sarah Yu
20F0067-01	EPA 3015A	06/05/2020 12:43	06/05/2020 12:43	Sarah Yu
20F0067-02	EPA 3015A	06/03/2020 15:02	06/03/2020 15:02	Sarah Yu
20F0067-03	EPA 3015A	06/03/2020 15:02	06/03/2020 15:02	Sarah Yu
20F0067-06	EPA 3015A	06/03/2020 15:02	06/03/2020 15:02	Sarah Yu
20F0067-01	EPA 5030B	06/05/2020 6:57	06/05/2020 6:57	Taylor M. Pasquence
20F0067-01RE1	EPA 5030B	06/05/2020 6:57	06/05/2020 6:57	Taylor M. Pasquence
20F0067-02	EPA 5030B	06/05/2020 6:57	06/05/2020 6:57	Taylor M. Pasquence
20F0067-03	EPA 5030B	06/05/2020 6:57	06/05/2020 6:57	Taylor M. Pasquence
20F0067-04	EPA 5030B	06/08/2020 6:13	06/08/2020 6:13	Taylor M. Pasquence
20F0067-05	EPA 5030B	06/08/2020 6:13	06/08/2020 6:13	Taylor M. Pasquence
20F0067-06	EPA 5030B	06/05/2020 6:57	06/05/2020 6:57	Taylor M. Pasquence
20F0067-06RE1	EPA 5030B	06/05/2020 6:57	06/05/2020 6:57	Taylor M. Pasquence
20F0067-01	EPA 7473 water	06/05/2020 11:11	06/05/2020 11:11	Sarah Yu
20F0067-02	EPA 7473 water	06/05/2020 11:11	06/05/2020 11:11	Sarah Yu
20F0067-03	EPA 7473 water	06/05/2020 11:11	06/05/2020 11:11	Sarah Yu
20F0067-06	EPA 7473 water	06/05/2020 11:11	06/05/2020 11:11	Sarah Yu
20F0067-01	EPA SW846-7470A	06/03/2020 15:26	06/03/2020 15:26	Ali Akbar

Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
20F0067-01	Mercury by 7473	06/05/2020 11:11	06/05/2020 21:09	Margaret A. Ottersen
20F0067-02	Mercury by 7473	06/05/2020 11:11	06/05/2020 21:20	Margaret A. Ottersen
20F0067-03	Mercury by 7473	06/05/2020 11:11	06/05/2020 21:30	Margaret A. Ottersen

Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
20F0067-06	Mercury by 7473	06/05/2020 11:11	06/05/2020 21:41	Margaret A. Ottersen
20F0067-01	Mercury, Dissolved	06/03/2020 15:26	06/03/2020 15:26	Ali Akbar
20F0067-01	Metals, Priority Pollutant	06/03/2020 15:02	06/08/2020 15:04	Kristin M. Lopez
20F0067-02	Metals, Priority Pollutant	06/03/2020 15:02	06/08/2020 15:07	Kristin M. Lopez
20F0067-03	Metals, Priority Pollutant	06/03/2020 15:02	06/08/2020 15:10	Kristin M. Lopez
20F0067-06	Metals, Priority Pollutant	06/03/2020 15:02	06/08/2020 15:13	Kristin M. Lopez
20F0067-01	Metals, Priority Pollutant, Dissolved	06/05/2020 12:43	06/05/2020 15:17	Kristin M. Lopez
20F0067-01	Volatile Organics, 8260 - Comprehens	06/05/2020 6:57	06/05/2020 17:29	Taylor M. Pasquence
20F0067-01RE1	Volatile Organics, 8260 - Comprehens	06/05/2020 6:57	06/08/2020 17:27	Taylor M. Pasquence
20F0067-02	Volatile Organics, 8260 - Comprehens	06/05/2020 6:57	06/09/2020 5:01	Taylor M. Pasquence
20F0067-03	Volatile Organics, 8260 - Comprehens	06/05/2020 6:57	06/09/2020 5:30	Taylor M. Pasquence
20F0067-04	Volatile Organics, 8260 - Comprehens	06/08/2020 6:13	06/09/2020 11:45	Taylor M. Pasquence
20F0067-05	Volatile Organics, 8260 - Comprehens	06/08/2020 6:13	06/09/2020 10:23	Taylor M. Pasquence
20F0067-06	Volatile Organics, 8260 - Comprehens	06/05/2020 6:57	06/05/2020 20:01	Taylor M. Pasquence
20F0067-06RE1	Volatile Organics, 8260 - Comprehens	06/05/2020 6:57	06/08/2020 17:58	Taylor M. Pasquence

York Analytical Laboratories, Inc.
120 Research Drive Stratford, CT 06615
132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 20F0067

YOUR Information	Report To:	Invoice To:
Company: CHAZEN	Company: CHAZEN	Company: CHAZEN
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact: ERIC ORLOWSKI	Contact: ERIC ORLOWSKI	Contact: ACCOUNTS PAYABLE
E-mail:	E-mail:	E-mail:

YOUR Project Number: 41103.20

YOUR Project Name: Kingston CVS

YOUR PO#: 07042

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

ERIC ORLOWSKI

Samples Collected by: (print your name above and sign below)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York	X
New Jersey	
Connecticut	
Pennsylvania	
Other	

Report / EDD Type (circle selections)

(Summary Report) CT RCP (Standard Excel EDD)
QA Report CT RCP DQA/DUE EQuIS (Standard)
NY ASP A Package NJDEP Reduced Deliverables (NYSDEC EQuIS)
(NY ASP B Package) NJDKQP NJDEP SRP HazSite
Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)
PART 703

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
KC-MW-01 0620	GW	6/1/2020 1239	8260 VOCs, Total/Dissolved Priority Pollutant Metals	3x 40mL, 2x 250mL
KC-MW-02 0620	↓	1120	, Total Priority Pollutant Metals	3x 40mL, 1x 250mL
KC-MW-05 0620	↓	1030	, Total Priority Pollutant Metals	3x 40mL, 1x 250mL
KC-MW-07 0620	↓	1441		3x 40mL
TRIP BLANK 0620	DI		↓	2x 40mL
KC-MW-DUP 0620			, Total Priority Pollutant Metals	3x 40mL, 1x 250mL

Comments:

Preservation: (check all that apply)
HCl X MeOH ___ HNO_3 X H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: 4°C

Special Instruction
Field Filtered X
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
ERIC ORLOWSKI / CHAZEN	6/2/2020 0830	Donald COURIER TO LAB	6/2/20 1330		6/2/20 1905
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				J Gale	6/2/2020 1905 / 2.5 Degrees C

York Analytical Laboratories, Inc.
SDG: 20F0067
CLASS: VOA
METHOD: EPA 8260C

DATA PACKAGE COVER PAGE

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS

Client Sample Id:	Lab Sample Id:
KC-MW-01 0620	20F0067-01
KC-MW-01 0620	20F0067-01RE1
KC-MW-02 0620	20F0067-02
KC-MW-05 0620	20F0067-03
KC-MW-07 0620	20F0067-04
TRIP BLANK 0620	20F0067-05
KC-MW-DUP 0620	20F0067-06
KC-MW-DUP 0620	20F0067-06RE1

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature: 
Name: Benjamin Gulizia

Date: 6/17/2020
Title: Laboratory Director

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Sequence: Y0F0821 Instrument: QVOA6

Calibration: YF00005

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (BF00412-BS1)			Lab File ID: QV619425.D		Analyzed: 06/05/20 12:54			
SURR: 1,2-Dichloroethane-d4	10.0	98.3	69 - 130	5.817	5.815	0.0020	+/-1.00	
SURR: Toluene-d8	10.0	97.7	81 - 117	7.683	7.685445	-0.0024	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	93.6	79 - 122	10.471	10.48122	-0.0102	+/-1.00	
LCS Dup (BF00412-BSD1)			Lab File ID: QV619426.D		Analyzed: 06/05/20 13:49			
SURR: 1,2-Dichloroethane-d4	10.0	99.5	69 - 130	5.817	5.815	0.0020	+/-1.00	
SURR: Toluene-d8	10.0	96.5	81 - 117	7.681	7.685445	-0.0044	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	93.6	79 - 122	10.471	10.48122	-0.0102	+/-1.00	
Blank (BF00412-BLK1)			Lab File ID: QV619428.D		Analyzed: 06/05/20 14:50			
SURR: 1,2-Dichloroethane-d4	10.0	98.9	69 - 130	5.814	5.815	-0.0010	+/-1.00	
SURR: Toluene-d8	10.0	96.6	81 - 117	7.681	7.685445	-0.0044	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	91.0	79 - 122	10.471	10.48122	-0.0102	+/-1.00	
KC-MW-01 0620 (20F0067-01)			Lab File ID: QV619433.D		Analyzed: 06/05/20 17:29			
SURR: 1,2-Dichloroethane-d4	10.0	96.8	69 - 130	5.819	5.815	0.0040	+/-1.00	
SURR: Toluene-d8	10.0	97.0	81 - 117	7.686	7.685445	0.0006	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	92.4	79 - 122	10.474	10.48122	-0.0072	+/-1.00	
KC-MW-DUP 0620 (20F0067-06)			Lab File ID: QV619437.D		Analyzed: 06/05/20 20:01			
SURR: 1,2-Dichloroethane-d4	10.0	95.7	69 - 130	5.819	5.815	0.0040	+/-1.00	
SURR: Toluene-d8	10.0	95.9	81 - 117	7.686	7.685445	0.0006	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	92.1	79 - 122	10.474	10.48122	-0.0072	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Sequence: Y0F0919 Instrument: QVOA9

Calibration: YF00003

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (BF00478-BLK1)			Lab File ID: QV912168.D		Analyzed: 06/09/20 04:01			
SURR: 1,2-Dichloroethane-d4	10.0	101	69 - 130	5.43	5.427889	0.0021	+/-1.00	
SURR: Toluene-d8	10.0	100	81 - 117	7.289	7.287222	0.0018	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	102	79 - 122	10.079	10.08133	-0.0023	+/-1.00	
KC-MW-02 0620 (20F0067-02)			Lab File ID: QV912170.D		Analyzed: 06/09/20 05:01			
SURR: 1,2-Dichloroethane-d4	10.0	103	69 - 130	5.433	5.427889	0.0051	+/-1.00	
SURR: Toluene-d8	10.0	98.9	81 - 117	7.287	7.287222	-0.0002	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	98.2	79 - 122	10.079	10.08133	-0.0023	+/-1.00	
KC-MW-05 0620 (20F0067-03)			Lab File ID: QV912171.D		Analyzed: 06/09/20 05:30			
SURR: 1,2-Dichloroethane-d4	10.0	102	69 - 130	5.43	5.427889	0.0021	+/-1.00	
SURR: Toluene-d8	10.0	96.5	81 - 117	7.287	7.287222	-0.0002	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	97.6	79 - 122	10.076	10.08133	-0.0053	+/-1.00	
LCS (BF00478-BS1)			Lab File ID: QV912178.D		Analyzed: 06/09/20 08:50			
SURR: 1,2-Dichloroethane-d4	10.0	102	69 - 130	5.43	5.427889	0.0021	+/-1.00	
SURR: Toluene-d8	10.0	99.5	81 - 117	7.286	7.287222	-0.0012	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	97.9	79 - 122	10.082	10.08133	0.0007	+/-1.00	
LCS Dup (BF00478-BSD1)			Lab File ID: QV912179.D		Analyzed: 06/09/20 09:18			
SURR: 1,2-Dichloroethane-d4	10.0	99.6	69 - 130	5.43	5.427889	0.0021	+/-1.00	
SURR: Toluene-d8	10.0	100	81 - 117	7.289	7.287222	0.0018	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	98.2	79 - 122	10.082	10.08133	0.0007	+/-1.00	
TRIP BLANK 0620 (20F0067-05)			Lab File ID: QV912181.D		Analyzed: 06/09/20 10:23			
SURR: 1,2-Dichloroethane-d4	10.0	88.4	69 - 130	5.427	5.427889	-0.0009	+/-1.00	
SURR: Toluene-d8	10.0	101	81 - 117	7.287	7.287222	-0.0002	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	115	79 - 122	10.079	10.08133	-0.0023	+/-1.00	
KC-MW-07 0620 (20F0067-04)			Lab File ID: QV912184.D		Analyzed: 06/09/20 11:45			
SURR: 1,2-Dichloroethane-d4	10.0	87.7	69 - 130	5.43	5.427889	0.0021	+/-1.00	
SURR: Toluene-d8	10.0	100	81 - 117	7.287	7.287222	-0.0002	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	102	79 - 122	10.079	10.08133	-0.0023	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Sequence: Y0F0932 Instrument: QVOA6

Calibration: YF00005

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (BF00479-BS1)			Lab File ID: QV619463.D		Analyzed: 06/08/20 12:22			
SURR: 1,2-Dichloroethane-d4	10.0	105	69 - 130	5.816	5.815	0.0010	+/-1.00	
SURR: Toluene-d8	10.0	94.8	81 - 117	7.678	7.685445	-0.0074	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	95.0	79 - 122	10.466	10.48122	-0.0152	+/-1.00	
Blank (BF00479-BLK1)			Lab File ID: QV619467.D		Analyzed: 06/08/20 13:55			
SURR: 1,2-Dichloroethane-d4	10.0	101	69 - 130	5.811	5.815	-0.0040	+/-1.00	
SURR: Toluene-d8	10.0	96.6	81 - 117	7.678	7.685445	-0.0074	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	92.2	79 - 122	10.468	10.48122	-0.0132	+/-1.00	
LCS Dup (BF00479-BSD1)			Lab File ID: QV619469.D		Analyzed: 06/08/20 15:30			
SURR: 1,2-Dichloroethane-d4	10.0	100	69 - 130	5.811	5.815	-0.0040	+/-1.00	
SURR: Toluene-d8	10.0	95.7	81 - 117	7.678	7.685445	-0.0074	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	92.1	79 - 122	10.469	10.48122	-0.0122	+/-1.00	
KC-MW-01 0620 (20F0067-01RE1)			Lab File ID: QV619472.D		Analyzed: 06/08/20 17:27			
SURR: 1,2-Dichloroethane-d4	10.0	97.0	69 - 130	5.811	5.815	-0.0040	+/-1.00	
SURR: Toluene-d8	10.0	97.6	81 - 117	7.678	7.685445	-0.0074	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	94.2	79 - 122	10.471	10.48122	-0.0102	+/-1.00	
KC-MW-DUP 0620 (20F0067-06RE1)			Lab File ID: QV619473.D		Analyzed: 06/08/20 17:58			
SURR: 1,2-Dichloroethane-d4	10.0	98.0	69 - 130	5.816	5.815	0.0010	+/-1.00	
SURR: Toluene-d8	10.0	97.4	81 - 117	7.681	7.685445	-0.0044	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	95.7	79 - 122	10.468	10.48122	-0.0132	+/-1.00	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00412	Laboratory ID:	BF00412-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	8.4	84.4	82 - 126
1,1,1-Trichloroethane	10.0	8.8	88.2	78 - 136
1,1,2,2-Tetrachloroethane	10.0	8.5	85.2	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.1	91.4	54 - 165
1,1,2-Trichloroethane	10.0	8.7	86.7	82 - 123
1,1-Dichloroethane	10.0	8.9	89.3	82 - 129
1,1-Dichloroethylene	10.0	8.8	88.5	68 - 138
1,2,3-Trichlorobenzene	10.0	8.8	87.9	76 - 136
1,2,3-Trichloropropane	10.0	8.8	88.0	77 - 128
1,2,4-Trichlorobenzene	10.0	8.9	89.0	76 - 137
1,2,4-Trimethylbenzene	10.0	9.1	91.4	82 - 132
1,2-Dibromo-3-chloropropane	10.0	7.5	75.0	45 - 147
1,2-Dibromoethane	10.0	8.6	86.5	83 - 124
1,2-Dichlorobenzene	10.0	9.1	91.0	79 - 123
1,2-Dichloroethane	10.0	8.8	87.9	73 - 132
1,2-Dichloropropane	10.0	8.2	82.3	78 - 126
1,3,5-Trimethylbenzene	10.0	9.1	91.2	80 - 131
1,3-Dichlorobenzene	10.0	8.9	89.2	86 - 122
1,4-Dichlorobenzene	10.0	8.9	89.4	85 - 124
1,4-Dioxane	210	110	53.2	10 - 349
2-Butanone	10.0	9.4	94.4	49 - 152
2-Hexanone	10.0	8.8	88.5	51 - 146
4-Methyl-2-pentanone	10.0	8.4	83.8	57 - 145
Acetone	10.0	8.6	85.7	14 - 150
Acrolein	10.0	1.5	15.2	10 - 153
Acrylonitrile	10.0	9.7	97.2	51 - 150
Benzene	10.0	9.1	91.2	85 - 126
Bromochloromethane	10.0	8.5	85.4	77 - 128
Bromodichloromethane	10.0	8.1	80.9	79 - 128
Bromoform	10.0	7.3	72.6 *	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00412	Laboratory ID:	BF00412-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	1.1	10.8 *	43 - 168
Carbon disulfide	10.0	8.1	80.9	68 - 146
Carbon tetrachloride	10.0	8.2	81.5	77 - 141
Chlorobenzene	10.0	8.9	89.4	88 - 120
Chloroethane	10.0	8.7	87.1	65 - 136
Chloroform	10.0	9.3	92.8	82 - 128
Chloromethane	10.0	8.6	86.4	43 - 155
cis-1,2-Dichloroethylene	10.0	9.6	95.5	83 - 129
cis-1,3-Dichloropropylene	10.0	8.2	82.4	80 - 131
Cyclohexane	10.0	7.6	76.0	63 - 149
Dibromochloromethane	10.0	8.1	80.9	80 - 130
Dibromomethane	10.0	8.3	82.7	72 - 134
Dichlorodifluoromethane	10.0	4.0	40.4 *	44 - 144
Ethyl Benzene	10.0	9.1	91.4	80 - 131
Hexachlorobutadiene	10.0	10	103	67 - 146
Isopropylbenzene	10.0	8.6	85.8	76 - 140
Methyl acetate	10.0	8.5	85.1	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.3	93.1	76 - 135
Methylcyclohexane	10.0	7.0	70.0 *	72 - 143
Methylene chloride	10.0	9.7	96.7	55 - 137
n-Butylbenzene	10.0	9.6	95.9	79 - 132
n-Propylbenzene	10.0	8.8	87.6	78 - 133
o-Xylene	10.0	9.0	90.5	78 - 130
p- & m- Xylenes	20.0	18	91.0	77 - 133
p-Isopropyltoluene	10.0	9.7	97.4	81 - 136
sec-Butylbenzene	10.0	10	99.5	79 - 137
Styrene	10.0	9.4	93.9	67 - 132
tert-Butyl alcohol (TBA)	50.0	51	102	25 - 162
tert-Butylbenzene	10.0	8.7	87.1	77 - 138
Tetrachloroethylene	10.0	8.8	87.9	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00412	Laboratory ID:	BF00412-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Toluene	10.0	8.6	86.1	80 - 127
trans-1,2-Dichloroethylene	10.0	9.3	93.3	80 - 132
trans-1,3-Dichloropropylene	10.0	8.0	80.3	78 - 131
trans-1,4-dichloro-2-butene	10.0	7.1	70.8	63 - 141
Trichloroethylene	10.0	8.3	83.0	82 - 128
Trichlorofluoromethane	10.0	8.2	82.5	67 - 139
Vinyl Chloride	10.0	7.9	79.4	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Matrix: Water

Batch: BF00412 Laboratory ID: BF00412-BSD1

Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	8.3	83.1	1.55	30	82 - 126
1,1,1-Trichloroethane	10.0	9.7	96.6	9.09	30	78 - 136
1,1,2,2-Tetrachloroethane	10.0	8.2	81.5	4.44	30	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	11	115	22.6	30	54 - 165
1,1,2-Trichloroethane	10.0	8.3	83.4	3.88	30	82 - 123
1,1-Dichloroethane	10.0	9.3	93.3	4.38	30	82 - 129
1,1-Dichloroethylene	10.0	11	108	19.9	30	68 - 138
1,2,3-Trichlorobenzene	10.0	8.3	83.0	5.73	30	76 - 136
1,2,3-Trichloropropane	10.0	8.3	83.3	5.49	30	77 - 128
1,2,4-Trichlorobenzene	10.0	8.4	84.4	5.31	30	76 - 137
1,2,4-Trimethylbenzene	10.0	8.8	87.5	4.36	30	82 - 132
1,2-Dibromo-3-chloropropane	10.0	6.8	67.9	9.94	30	45 - 147
1,2-Dibromoethane	10.0	8.6	85.7	0.929	30	83 - 124
1,2-Dichlorobenzene	10.0	8.7	87.2	4.26	30	79 - 123
1,2-Dichloroethane	10.0	8.8	88.1	0.227	30	73 - 132
1,2-Dichloropropane	10.0	8.4	83.5	1.45	30	78 - 126
1,3,5-Trimethylbenzene	10.0	8.7	86.9	4.83	30	80 - 131
1,3-Dichlorobenzene	10.0	8.7	86.6	2.96	30	86 - 122
1,4-Dichlorobenzene	10.0	8.7	86.9	2.84	30	85 - 124
1,4-Dioxane	210	290	138	88.5 *	30	10 - 349
2-Butanone	10.0	9.0	89.5	5.33	30	49 - 152
2-Hexanone	10.0	8.2	82.2	7.38	30	51 - 146
4-Methyl-2-pentanone	10.0	7.8	78.5	6.53	30	57 - 145
Acetone	10.0	8.5	84.6	1.29	30	14 - 150
Acrolein	10.0	10	102	148 *	30	10 - 153
Acrylonitrile	10.0	9.4	94.5	2.82	30	51 - 150
Benzene	10.0	9.6	96.2	5.34	30	85 - 126
Bromochloromethane	10.0	8.7	87.4	2.31	30	77 - 128
Bromodichloromethane	10.0	8.0	80.2	0.869	30	79 - 128
Bromoform	10.0	7.1	71.4 *	1.67	30	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00412	Laboratory ID:	BF00412-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	10.0	1.5	15.3 *	34.5 *	30	43 - 168
Carbon disulfide	10.0	10	102	22.7	30	68 - 146
Carbon tetrachloride	10.0	9.2	91.5	11.6	30	77 - 141
Chlorobenzene	10.0	8.9	89.3	0.112	30	88 - 120
Chloroethane	10.0	13	127	37.4 *	30	65 - 136
Chloroform	10.0	9.5	94.8	2.13	30	82 - 128
Chloromethane	10.0	9.8	98.5	13.1	30	43 - 155
cis-1,2-Dichloroethylene	10.0	10	99.5	4.10	30	83 - 129
cis-1,3-Dichloropropylene	10.0	8.3	83.3	1.09	30	80 - 131
Cyclohexane	10.0	11	110	36.7 *	30	63 - 149
Dibromochloromethane	10.0	7.9	78.9 *	2.50	30	80 - 130
Dibromomethane	10.0	8.1	81.3	1.71	30	72 - 134
Dichlorodifluoromethane	10.0	8.3	83.2	69.3 *	30	44 - 144
Ethyl Benzene	10.0	9.1	90.9	0.549	30	80 - 131
Hexachlorobutadiene	10.0	9.1	91.4	12.3	30	67 - 146
Isopropylbenzene	10.0	8.2	82.5	3.92	30	76 - 140
Methyl acetate	10.0	9.6	95.8	11.8	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.0	90.0	3.39	30	76 - 135
Methylcyclohexane	10.0	9.3	93.4	28.6	30	72 - 143
Methylene chloride	10.0	10	102	5.04	30	55 - 137
n-Butylbenzene	10.0	8.8	88.1	8.48	30	79 - 132
n-Propylbenzene	10.0	8.3	83.1	5.27	30	78 - 133
o-Xylene	10.0	8.9	89.4	1.22	30	78 - 130
p- & m- Xylenes	20.0	18	90.3	0.717	30	77 - 133
p-Isopropyltoluene	10.0	8.9	89.0	9.01	30	81 - 136
sec-Butylbenzene	10.0	8.9	89.2	10.9	30	79 - 137
Styrene	10.0	9.2	91.6	2.48	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	50	99.0	3.02	30	25 - 162
tert-Butylbenzene	10.0	6.9	69.4 *	22.6	30	77 - 138
Tetrachloroethylene	10.0	9.1	91.2	3.69	30	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00412	Laboratory ID:	BF00412-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	10.0	8.7	87.3	1.38	30	80 - 127
trans-1,2-Dichloroethylene	10.0	10	103	9.49	30	80 - 132
trans-1,3-Dichloropropylene	10.0	8.0	79.8	0.625	30	78 - 131
trans-1,4-dichloro-2-butene	10.0	6.9	68.9	2.72	30	63 - 141
Trichloroethylene	10.0	8.7	86.8	4.48	30	82 - 128
Trichlorofluoromethane	10.0	11	110	28.9	30	67 - 139
Vinyl Chloride	10.0	13	131	49.1 *	30	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00478	Laboratory ID:	BF00478-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	9.7	96.6	82 - 126
1,1,1-Trichloroethane	10.0	11	108	78 - 136
1,1,2,2-Tetrachloroethane	10.0	9.7	97.3	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	11	106	54 - 165
1,1,2-Trichloroethane	10.0	10	102	82 - 123
1,1-Dichloroethane	10.0	10	101	82 - 129
1,1-Dichloroethylene	10.0	11	105	68 - 138
1,2,3-Trichlorobenzene	10.0	7.2	72.2 *	76 - 136
1,2,3-Trichloropropane	10.0	10	99.5	77 - 128
1,2,4-Trichlorobenzene	10.0	7.5	74.7 *	76 - 137
1,2,4-Trimethylbenzene	10.0	9.6	96.1	82 - 132
1,2-Dibromo-3-chloropropane	10.0	9.8	97.6	45 - 147
1,2-Dibromoethane	10.0	9.5	94.7	83 - 124
1,2-Dichlorobenzene	10.0	9.4	93.8	79 - 123
1,2-Dichloroethane	10.0	9.9	99.0	73 - 132
1,2-Dichloropropane	10.0	9.6	95.7	78 - 126
1,3,5-Trimethylbenzene	10.0	9.6	96.4	80 - 131
1,3-Dichlorobenzene	10.0	9.1	90.9	86 - 122
1,4-Dichlorobenzene	10.0	8.9	88.9	85 - 124
1,4-Dioxane	210	220	105	10 - 349
2-Butanone	10.0	9.7	96.8	49 - 152
2-Hexanone	10.0	9.8	97.7	51 - 146
4-Methyl-2-pentanone	10.0	9.5	94.7	57 - 145
Acetone	10.0	11	111	14 - 150
Acrolein	10.0	7.9	79.2	10 - 153
Acrylonitrile	10.0	9.0	90.3	51 - 150
Benzene	10.0	11	110	85 - 126
Bromochloromethane	10.0	9.5	95.3	77 - 128
Bromodichloromethane	10.0	9.7	96.7	79 - 128
Bromoform	10.0	8.8	87.7	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00478	Laboratory ID:	BF00478-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	8.1	81.4	43 - 168
Carbon disulfide	10.0	11	108	68 - 146
Carbon tetrachloride	10.0	10	101	77 - 141
Chlorobenzene	10.0	9.7	96.6	88 - 120
Chloroethane	10.0	13	127	65 - 136
Chloroform	10.0	10	101	82 - 128
Chloromethane	10.0	8.7	86.6	43 - 155
cis-1,2-Dichloroethylene	10.0	8.9	89.2	83 - 129
cis-1,3-Dichloropropylene	10.0	8.0	79.6 *	80 - 131
Cyclohexane	10.0	4.7	47.1 *	63 - 149
Dibromochloromethane	10.0	9.3	92.7	80 - 130
Dibromomethane	10.0	9.4	93.5	72 - 134
Dichlorodifluoromethane	10.0	11	111	44 - 144
Ethyl Benzene	10.0	11	113	80 - 131
Hexachlorobutadiene	10.0	7.5	75.4	67 - 146
Isopropylbenzene	10.0	14	137	76 - 140
Methyl acetate	10.0	7.8	77.8	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.8	97.6	76 - 135
Methylcyclohexane	10.0	10	101	72 - 143
Methylene chloride	10.0	9.5	94.7	55 - 137
n-Butylbenzene	10.0	10	101	79 - 132
n-Propylbenzene	10.0	13	127	78 - 133
o-Xylene	10.0	10	104	78 - 130
p- & m- Xylenes	20.0	19	97.4	77 - 133
p-Isopropyltoluene	10.0	9.4	93.5	81 - 136
sec-Butylbenzene	10.0	13	126	79 - 137
Styrene	10.0	9.9	99.3	67 - 132
tert-Butyl alcohol (TBA)	50.0	42	84.0	25 - 162
tert-Butylbenzene	10.0	8.7	86.6	77 - 138
Tetrachloroethylene	10.0	9.2	91.9	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00478	Laboratory ID:	BF00478-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Toluene	10.0	9.8	98.1	80 - 127
trans-1,2-Dichloroethylene	10.0	10	104	80 - 132
trans-1,3-Dichloropropylene	10.0	7.7	77.1 *	78 - 131
trans-1,4-dichloro-2-butene	10.0	9.4	93.7	63 - 141
Trichloroethylene	10.0	10	99.7	82 - 128
Trichlorofluoromethane	10.0	12	118	67 - 139
Vinyl Chloride	10.0	10	104	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00478	Laboratory ID:	BF00478-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	9.4	94.0	2.73	30	82 - 126
1,1,1-Trichloroethane	10.0	9.9	98.7	8.63	30	78 - 136
1,1,2,2-Tetrachloroethane	10.0	9.6	96.5	0.826	30	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	11	106	0.659	30	54 - 165
1,1,2-Trichloroethane	10.0	9.8	98.5	3.69	30	82 - 123
1,1-Dichloroethane	10.0	9.6	96.1	5.37	30	82 - 129
1,1-Dichloroethylene	10.0	10	102	3.18	30	68 - 138
1,2,3-Trichlorobenzene	10.0	6.9	69.4 *	3.95	30	76 - 136
1,2,3-Trichloropropane	10.0	9.6	95.5	4.10	30	77 - 128
1,2,4-Trichlorobenzene	10.0	7.4	74.1 *	0.806	30	76 - 137
1,2,4-Trimethylbenzene	10.0	9.2	92.3	4.03	30	82 - 132
1,2-Dibromo-3-chloropropane	10.0	9.2	91.5	6.45	30	45 - 147
1,2-Dibromoethane	10.0	9.4	94.3	0.423	30	83 - 124
1,2-Dichlorobenzene	10.0	9.1	91.4	2.59	30	79 - 123
1,2-Dichloroethane	10.0	9.1	90.7	8.75	30	73 - 132
1,2-Dichloropropane	10.0	9.4	93.8	2.01	30	78 - 126
1,3,5-Trimethylbenzene	10.0	9.3	92.8	3.81	30	80 - 131
1,3-Dichlorobenzene	10.0	8.9	88.7	2.45	30	86 - 122
1,4-Dichlorobenzene	10.0	8.8	88.2	0.791	30	85 - 124
1,4-Dioxane	210	280	132	22.4	30	10 - 349
2-Butanone	10.0	8.3	83.2	15.1	30	49 - 152
2-Hexanone	10.0	9.4	94.1	3.75	30	51 - 146
4-Methyl-2-pentanone	10.0	9.2	92.4	2.46	30	57 - 145
Acetone	10.0	10	102	7.88	30	14 - 150
Acrolein	10.0	8.2	82.5	4.08	30	10 - 153
Acrylonitrile	10.0	9.7	97.4	7.57	30	51 - 150
Benzene	10.0	11	109	0.824	30	85 - 126
Bromochloromethane	10.0	9.3	92.8	2.66	30	77 - 128
Bromodichloromethane	10.0	9.1	91.1	5.96	30	79 - 128
Bromoform	10.0	8.5	84.8	3.36	30	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00478	Laboratory ID:	BF00478-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	10.0	7.6	76.1		6.73	30	43 - 168
Carbon disulfide	10.0	11	107		1.40	30	68 - 146
Carbon tetrachloride	10.0	9.5	95.4		5.90	30	77 - 141
Chlorobenzene	10.0	9.4	94.2		2.52	30	88 - 120
Chloroethane	10.0	11	114		10.1	30	65 - 136
Chloroform	10.0	9.6	96.0		5.27	30	82 - 128
Chloromethane	10.0	8.8	88.3		1.94	30	43 - 155
cis-1,2-Dichloroethylene	10.0	8.6	85.5		4.24	30	83 - 129
cis-1,3-Dichloropropylene	10.0	7.8	77.7	*	2.42	30	80 - 131
Cyclohexane	10.0	4.7	47.3	*	0.424	30	63 - 149
Dibromochloromethane	10.0	8.9	88.6		4.52	30	80 - 130
Dibromomethane	10.0	9.4	93.7		0.214	30	72 - 134
Dichlorodifluoromethane	10.0	10	100		9.66	30	44 - 144
Ethyl Benzene	10.0	11	110		2.69	30	80 - 131
Hexachlorobutadiene	10.0	7.3	73.0		3.23	30	67 - 146
Isopropylbenzene	10.0	13	134		2.59	30	76 - 140
Methyl acetate	10.0	8.3	82.6		5.99	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.7	96.6		1.03	30	76 - 135
Methylcyclohexane	10.0	10	102		0.887	30	72 - 143
Methylene chloride	10.0	8.9	88.9		6.32	30	55 - 137
n-Butylbenzene	10.0	9.8	98.3		2.91	30	79 - 132
n-Propylbenzene	10.0	12	124		1.91	30	78 - 133
o-Xylene	10.0	9.9	98.8		5.61	30	78 - 130
p- & m- Xylenes	20.0	19	93.4		4.20	30	77 - 133
p-Isopropyltoluene	10.0	9.2	91.7		1.94	30	81 - 136
sec-Butylbenzene	10.0	12	122		2.90	30	79 - 137
Styrene	10.0	9.5	95.4		4.01	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	42	83.5		0.669	30	25 - 162
tert-Butylbenzene	10.0	8.3	83.4		3.76	30	77 - 138
Tetrachloroethylene	10.0	9.1	90.8		1.20	30	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00478	Laboratory ID:	BF00478-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	10.0	9.6	96.3	1.85	30	80 - 127
trans-1,2-Dichloroethylene	10.0	10	102	2.53	30	80 - 132
trans-1,3-Dichloropropylene	10.0	7.4	74.4 *	3.56	30	78 - 131
trans-1,4-dichloro-2-butene	10.0	11	105	11.7	30	63 - 141
Trichloroethylene	10.0	9.5	94.6	5.25	30	82 - 128
Trichlorofluoromethane	10.0	11	107	10.0	30	67 - 139
Vinyl Chloride	10.0	9.5	94.9	9.05	30	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00479	Laboratory ID:	BF00479-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	9.1	91.2	82 - 126
1,1,1-Trichloroethane	10.0	9.1	90.6	78 - 136
1,1,2,2-Tetrachloroethane	10.0	9.2	91.7	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.4	94.5	54 - 165
1,1,2-Trichloroethane	10.0	9.2	92.2	82 - 123
1,1-Dichloroethane	10.0	9.2	92.5	82 - 129
1,1-Dichloroethylene	10.0	9.8	97.9	68 - 138
1,2,3-Trichlorobenzene	10.0	9.0	89.5	76 - 136
1,2,3-Trichloropropane	10.0	9.7	96.6	77 - 128
1,2,4-Trichlorobenzene	10.0	9.2	92.4	76 - 137
1,2,4-Trimethylbenzene	10.0	8.9	88.7	82 - 132
1,2-Dibromo-3-chloropropane	10.0	8.1	80.6	45 - 147
1,2-Dibromoethane	10.0	9.4	93.6	83 - 124
1,2-Dichlorobenzene	10.0	9.4	94.1	79 - 123
1,2-Dichloroethane	10.0	9.8	98.5	73 - 132
1,2-Dichloropropane	10.0	8.5	85.0	78 - 126
1,3,5-Trimethylbenzene	10.0	8.5	84.6	80 - 131
1,3-Dichlorobenzene	10.0	9.2	91.8	86 - 122
1,4-Dichlorobenzene	10.0	9.3	92.6	85 - 124
1,4-Dioxane	210	390	187	10 - 349
2-Butanone	10.0	11	106	49 - 152
2-Hexanone	10.0	9.3	93.0	51 - 146
4-Methyl-2-pentanone	10.0	8.9	88.7	57 - 145
Acetone	10.0	9.9	99.1	14 - 150
Acrolein	10.0	11	109	10 - 153
Acrylonitrile	10.0	11	115	51 - 150
Benzene	10.0	9.5	95.1	85 - 126
Bromochloromethane	10.0	10	100	77 - 128
Bromodichloromethane	10.0	8.7	86.8	79 - 128
Bromoform	10.0	8.7	87.3	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00479	Laboratory ID:	BF00479-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	1.5	15.3 *	43 - 168
Carbon disulfide	10.0	9.2	92.5	68 - 146
Carbon tetrachloride	10.0	8.3	82.8	77 - 141
Chlorobenzene	10.0	9.1	91.2	88 - 120
Chloroethane	10.0	12	120	65 - 136
Chloroform	10.0	9.7	96.9	82 - 128
Chloromethane	10.0	15	152	43 - 155
cis-1,2-Dichloroethylene	10.0	11	112	83 - 129
cis-1,3-Dichloropropylene	10.0	8.8	87.6	80 - 131
Cyclohexane	10.0	8.7	87.2	63 - 149
Dibromochloromethane	10.0	9.0	90.3	80 - 130
Dibromomethane	10.0	9.0	90.0	72 - 134
Dichlorodifluoromethane	10.0	12	117	44 - 144
Ethyl Benzene	10.0	8.7	87.2	80 - 131
Hexachlorobutadiene	10.0	8.3	82.7	67 - 146
Isopropylbenzene	10.0	7.8	77.7	76 - 140
Methyl acetate	10.0	11	105	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	10	101	76 - 135
Methylcyclohexane	10.0	6.4	64.2 *	72 - 143
Methylene chloride	10.0	10	105	55 - 137
n-Butylbenzene	10.0	7.8	78.0 *	79 - 132
n-Propylbenzene	10.0	7.8	77.5 *	78 - 133
o-Xylene	10.0	9.0	90.1	78 - 130
p- & m- Xylenes	20.0	17	87.1	77 - 133
p-Isopropyltoluene	10.0	8.2	81.6	81 - 136
sec-Butylbenzene	10.0	7.8	78.0 *	79 - 137
Styrene	10.0	9.6	95.7	67 - 132
tert-Butyl alcohol (TBA)	50.0	61	122	25 - 162
tert-Butylbenzene	10.0	6.5	64.6 *	77 - 138
Tetrachloroethylene	10.0	8.0	80.4 *	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00479	Laboratory ID:	BF00479-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Toluene	10.0	8.5	85.2	80 - 127
trans-1,2-Dichloroethylene	10.0	9.8	98.0	80 - 132
trans-1,3-Dichloropropylene	10.0	8.7	87.3	78 - 131
trans-1,4-dichloro-2-butene	10.0	7.8	78.0	63 - 141
Trichloroethylene	10.0	8.9	88.6	82 - 128
Trichlorofluoromethane	10.0	9.5	94.8	67 - 139
Vinyl Chloride	10.0	11	106	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Matrix: Water
Batch: BF00479
Laboratory ID: BF00479-BSD1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	8.9	88.7	2.78	30	82 - 126
1,1,1-Trichloroethane	10.0	9.7	96.9	6.72	30	78 - 136
1,1,2,2-Tetrachloroethane	10.0	8.6	86.1	6.30	30	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroeth ane (Freon 113)	10.0	11	107	12.4	30	54 - 165
1,1,2-Trichloroethane	10.0	8.9	89.1	3.42	30	82 - 123
1,1-Dichloroethane	10.0	9.3	92.7	0.216	30	82 - 129
1,1-Dichloroethylene	10.0	10	104	5.95	30	68 - 138
1,2,3-Trichlorobenzene	10.0	8.5	84.7	5.51	30	76 - 136
1,2,3-Trichloropropane	10.0	8.9	88.6	8.64	30	77 - 128
1,2,4-Trichlorobenzene	10.0	8.9	88.6	4.20	30	76 - 137
1,2,4-Trimethylbenzene	10.0	9.0	89.5	0.898	30	82 - 132
1,2-Dibromo-3-chloropropane	10.0	7.6	75.5	6.53	30	45 - 147
1,2-Dibromoethane	10.0	9.0	89.9	4.03	30	83 - 124
1,2-Dichlorobenzene	10.0	9.1	91.1	3.24	30	79 - 123
1,2-Dichloroethane	10.0	9.1	90.8	8.14	30	73 - 132
1,2-Dichloropropane	10.0	8.6	85.9	1.05	30	78 - 126
1,3,5-Trimethylbenzene	10.0	8.8	87.5	3.37	30	80 - 131
1,3-Dichlorobenzene	10.0	8.9	88.9	3.21	30	86 - 122
1,4-Dichlorobenzene	10.0	9.0	90.0	2.85	30	85 - 124
1,4-Dioxane	210	400	193	2.96	30	10 - 349
2-Butanone	10.0	9.9	98.7	7.51	30	49 - 152
2-Hexanone	10.0	8.7	87.0	6.67	30	51 - 146
4-Methyl-2-pentanone	10.0	8.4	84.3	5.09	30	57 - 145
Acetone	10.0	9.9	98.7	0.404	30	14 - 150
Acrolein	10.0	10	104	4.90	30	10 - 153
Acrylonitrile	10.0	11	105	8.55	30	51 - 150
Benzene	10.0	9.6	96.5	1.46	30	85 - 126
Bromochloromethane	10.0	9.2	92.1	8.42	30	77 - 128
Bromodichloromethane	10.0	8.5	85.1	1.98	30	79 - 128
Bromoform	10.0	8.2	82.5	5.65	30	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Matrix: Water
Batch: BF00479
Laboratory ID: BF00479-BSD1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	10.0	1.6	16.3	*	6.33	30	43 - 168
Carbon disulfide	10.0	9.8	97.5		5.26	30	68 - 146
Carbon tetrachloride	10.0	9.1	91.3		9.76	30	77 - 141
Chlorobenzene	10.0	9.2	92.4		1.31	30	88 - 120
Chloroethane	10.0	12	125		3.75	30	65 - 136
Chloroform	10.0	9.6	95.9		1.04	30	82 - 128
Chloromethane	10.0	16	160	*	5.31	30	43 - 155
cis-1,2-Dichloroethylene	10.0	11	107		4.40	30	83 - 129
cis-1,3-Dichloropropylene	10.0	8.6	86.1		1.73	30	80 - 131
Cyclohexane	10.0	10	102		15.3	30	63 - 149
Dibromochloromethane	10.0	8.6	86.4		4.41	30	80 - 130
Dibromomethane	10.0	8.6	86.1		4.43	30	72 - 134
Dichlorodifluoromethane	10.0	12	122		4.52	30	44 - 144
Ethyl Benzene	10.0	9.2	92.3		5.68	30	80 - 131
Hexachlorobutadiene	10.0	8.9	89.3		7.67	30	67 - 146
Isopropylbenzene	10.0	8.2	82.4		5.87	30	76 - 140
Methyl acetate	10.0	9.7	97.2		7.91	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.4	94.3		6.86	30	76 - 135
Methylcyclohexane	10.0	8.7	86.8		29.9	30	72 - 143
Methylene chloride	10.0	10	101		3.99	30	55 - 137
n-Butylbenzene	10.0	8.6	86.1		9.87	30	79 - 132
n-Propylbenzene	10.0	8.3	83.0		6.85	30	78 - 133
o-Xylene	10.0	9.2	91.8		1.87	30	78 - 130
p- & m- Xylenes	20.0	18	91.6		5.09	30	77 - 133
p-Isopropyltoluene	10.0	8.8	87.6		7.09	30	81 - 136
sec-Butylbenzene	10.0	8.8	88.0		12.0	30	79 - 137
Styrene	10.0	9.6	95.5		0.209	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	60	121		1.19	30	25 - 162
tert-Butylbenzene	10.0	7.0	70.3	*	8.45	30	77 - 138
Tetrachloroethylene	10.0	9.2	91.8		13.2	30	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00479	Laboratory ID:	BF00479-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	10.0	8.9	88.8	4.14	30	80 - 127
trans-1,2-Dichloroethylene	10.0	10	102	4.00	30	80 - 132
trans-1,3-Dichloropropylene	10.0	8.5	85.0	2.67	30	78 - 131
trans-1,4-dichloro-2-butene	10.0	7.4	73.7	5.67	30	63 - 141
Trichloroethylene	10.0	9.2	92.0	3.77	30	82 - 128
Trichlorofluoromethane	10.0	10	103	8.68	30	67 - 139
Vinyl Chloride	10.0	11	115	8.17	30	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Batch: BF00412 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 0620	20F0067-01	QV619433.D	06/05/20 06:57	
KC-MW-DUP 0620	20F0067-06	QV619437.D	06/05/20 06:57	
Blank	BF00412-BLK1	QV619428.D	06/05/20 06:57	
LCS	BF00412-BS1	QV619425.D	06/05/20 06:57	
LCS Dup	BF00412-BSD1	QV619426.D	06/05/20 06:57	

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Batch: BF00478 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-02 0620	20F0067-02	QV912170.D	06/05/20 06:57	From BF00412 by TMP on 06/09/2020
KC-MW-05 0620	20F0067-03	QV912171.D	06/05/20 06:57	From BF00412 by TMP on 06/09/2020
KC-MW-07 0620	20F0067-04	QV912184.D	06/08/20 06:13	
TRIP BLANK 0620	20F0067-05	QV912181.D	06/08/20 06:13	
Blank	BF00478-BLK1	QV912168.D	06/08/20 06:13	
LCS	BF00478-BS1	QV912178.D	06/08/20 06:13	
LCS Dup	BF00478-BSD1	QV912179.D	06/08/20 06:13	

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Batch: BF00479 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 0620	20F0067-01RE1	QV619472.D	06/05/20 06:57	From BF00412 by TMP on 06/09/2020
KC-MW-DUP 0620	20F0067-06RE1	QV619473.D	06/05/20 06:57	From BF00412 by TMP on 06/09/2020
Blank	BF00479-BLK1	QV619467.D	06/08/20 06:30	
LCS	BF00479-BS1	QV619463.D	06/08/20 06:30	
LCS Dup	BF00479-BSD1	QV619469.D	06/08/20 06:30	

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00412-BLK1	File ID:	QV619428.D
Prepared:	06/05/20 06:57	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	06/05/20 14:50	Instrument:	QVOA6		
Batch:	BF00412	Sequence:	Y0F0821	Calibration:	YF00005

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
75-35-4	1,1-Dichloroethylene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00412-BLK1	File ID:	QV619428.D
Prepared:	06/05/20 06:57	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	06/05/20 14:50	Instrument:	QVOA6		
Batch:	BF00412	Sequence:	Y0F0821	Calibration:	YF00005

CAS NO.	COMPOUND	CONC. (ug/L)	Q
74-83-9	Bromomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
108-90-7	Chlorobenzene	0.50	U
75-00-3	Chloroethane	0.50	U
67-66-3	Chloroform	0.50	U
74-87-3	Chloromethane	0.48	J
156-59-2	cis-1,2-Dichloroethylene	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	0.50	U
110-82-7	Cyclohexane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-71-8	Dichlorodifluoromethane	0.50	U
100-41-4	Ethyl Benzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	2.0	U
104-51-8	n-Butylbenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	p- & m- Xylenes	1.0	U
99-87-6	p-Isopropyltoluene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
100-42-5	Styrene	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1.0	U
98-06-6	tert-Butylbenzene	0.50	U
127-18-4	Tetrachloroethylene	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00412-BLK1	File ID:	QV619428.D
Prepared:	06/05/20 06:57	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	06/05/20 14:50	Instrument:	QVOA6		
Batch:	BF00412	Sequence:	Y0F0821	Calibration:	YF00005

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-88-3	Toluene	0.50	U
156-60-5	trans-1,2-Dichloroethylene	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	0.50	U
79-01-6	Trichloroethylene	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
1330-20-7	Xylenes, Total	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.89	98.9	69 - 130	
SURR: p-Bromofluorobenzene	10.0	9.10	91.0	79 - 122	
SURR: Toluene-d8	10.0	9.66	96.6	81 - 117	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,2-Dichlorobenzene-d4	75887	12.163	82039	12.16	
ISTD: Chlorobenzene-d5	168313	9.186	185241	9.186	
ISTD: Fluorobenzene	44801	6.131	49957	6.131	

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00478-BLK1	File ID:	QV912168.D
Prepared:	06/08/20 06:13	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	06/09/20 04:01	Instrument:	QVOA9		
Batch:	BF00478	Sequence:	Y0F0919	Calibration:	YF00003

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
75-35-4	1,1-Dichloroethylene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00478-BLK1	File ID:	QV912168.D
Prepared:	06/08/20 06:13	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	06/09/20 04:01	Instrument:	QVOA9		
Batch:	BF00478	Sequence:	Y0F0919	Calibration:	YF00003

CAS NO.	COMPOUND	CONC. (ug/L)	Q
74-83-9	Bromomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
108-90-7	Chlorobenzene	0.50	U
75-00-3	Chloroethane	0.50	U
67-66-3	Chloroform	0.50	U
74-87-3	Chloromethane	0.50	U
156-59-2	cis-1,2-Dichloroethylene	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	0.50	U
110-82-7	Cyclohexane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-71-8	Dichlorodifluoromethane	0.50	U
100-41-4	Ethyl Benzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	2.0	U
104-51-8	n-Butylbenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	p- & m- Xylenes	1.0	U
99-87-6	p-Isopropyltoluene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
100-42-5	Styrene	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1.0	U
98-06-6	tert-Butylbenzene	0.50	U
127-18-4	Tetrachloroethylene	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00478-BLK1	File ID:	QV912168.D
Prepared:	06/08/20 06:13	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	06/09/20 04:01	Instrument:	QVOA9		
Batch:	BF00478	Sequence:	Y0F0919	Calibration:	YF00003

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-88-3	Toluene	0.50	U
156-60-5	trans-1,2-Dichloroethylene	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	0.50	U
79-01-6	Trichloroethylene	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
1330-20-7	Xylenes, Total	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.1	101	69 - 130	
SURR: p-Bromofluorobenzene	10.0	10.2	102	79 - 122	
SURR: Toluene-d8	10.0	10.0	100	81 - 117	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,2-Dichlorobenzene-d4	235477	11.779	242025	11.779	
ISTD: Chlorobenzene-d5	624999	8.792	586505	8.789	
ISTD: Fluorobenzene	158749	5.746	144711	5.74	

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00479-BLK1	File ID:	QV619467.D
Prepared:	06/08/20 06:30	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	06/08/20 13:55	Instrument:	QVOA6		
Batch:	BF00479	Sequence:	Y0F0932	Calibration:	YF00005

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
75-35-4	1,1-Dichloroethylene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00479-BLK1	File ID:	QV619467.D
Prepared:	06/08/20 06:30	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	06/08/20 13:55	Instrument:	QVOA6		
Batch:	BF00479	Sequence:	Y0F0932	Calibration:	YF00005

CAS NO.	COMPOUND	CONC. (ug/L)	Q
74-83-9	Bromomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
108-90-7	Chlorobenzene	0.50	U
75-00-3	Chloroethane	0.50	U
67-66-3	Chloroform	0.50	U
74-87-3	Chloromethane	0.50	U
156-59-2	cis-1,2-Dichloroethylene	0.32	J
10061-01-5	cis-1,3-Dichloropropylene	0.50	U
110-82-7	Cyclohexane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-71-8	Dichlorodifluoromethane	0.50	U
100-41-4	Ethyl Benzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	2.0	U
104-51-8	n-Butylbenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	p- & m- Xylenes	1.0	U
99-87-6	p-Isopropyltoluene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
100-42-5	Styrene	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1.0	U
98-06-6	tert-Butylbenzene	0.50	U
127-18-4	Tetrachloroethylene	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00479-BLK1	File ID:	QV619467.D
Prepared:	06/08/20 06:30	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	06/08/20 13:55	Instrument:	QVOA6		
Batch:	BF00479	Sequence:	Y0F0932	Calibration:	YF00005

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-88-3	Toluene	0.50	U
156-60-5	trans-1,2-Dichloroethylene	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	0.50	U
79-01-6	Trichloroethylene	0.23	J
75-69-4	Trichlorofluoromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
1330-20-7	Xylenes, Total	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.1	101	69 - 130	
SURR: p-Bromofluorobenzene	10.0	9.22	92.2	79 - 122	
SURR: Toluene-d8	10.0	9.66	96.6	81 - 117	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,2-Dichlorobenzene-d4	78220	12.163	87449	12.163	
ISTD: Chlorobenzene-d5	176844	9.183	192611	9.186	
ISTD: Fluorobenzene	47871	6.125	52499	6.131	

FORM V MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Lab File ID:	QV911780.D	Injection Date:	05/20/20
Instrument ID:	QVOA9	Injection Time:	17:37
Sequence:	Y0F0307	Lab Sample ID:	Y0F0307-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.1	PASS
75	30 - 60% of 95	56.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.5	PASS
173	Less than 2% of 174	0.819	PASS
174	50 - 100% of 95	65.9	PASS
175	5 - 9% of 174	7.46	PASS
176	95 - 101% of 174	99	PASS
177	5 - 9% of 176	7.81	PASS

FORM V MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Lab File ID:	QV619335.D	Injection Date:	05/18/20
Instrument ID:	QVOA6	Injection Time:	18:14
Sequence:	Y0F0409	Lab Sample ID:	Y0F0409-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	26.8	PASS
75	30 - 60% of 95	51	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.47	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	81.7	PASS
175	5 - 9% of 174	7.97	PASS
176	95 - 101% of 174	96.1	PASS
177	5 - 9% of 176	6.62	PASS

FORM V MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Lab File ID:	QV619420.D	Injection Date:	06/05/20
Instrument ID:	QVOA6	Injection Time:	10:03
Sequence:	Y0F0821	Lab Sample ID:	Y0F0821-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	27	PASS
75	30 - 60% of 95	51.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	90.6	PASS
175	5 - 9% of 174	8.19	PASS
176	95 - 101% of 174	96.9	PASS
177	5 - 9% of 176	6.74	PASS

FORM V MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Lab File ID:	QV912162.D	Injection Date:	06/09/20
Instrument ID:	QVOA9	Injection Time:	00:55
Sequence:	Y0F0919	Lab Sample ID:	Y0F0919-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.3	PASS
75	30 - 60% of 95	52.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.69	PASS
173	Less than 2% of 174	1.19	PASS
174	50 - 100% of 95	73.4	PASS
175	5 - 9% of 174	7.87	PASS
176	95 - 101% of 174	96	PASS
177	5 - 9% of 176	6.63	PASS

FORM V MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Lab File ID:	QV619461.D	Injection Date:	06/08/20
Instrument ID:	QVOA6	Injection Time:	11:09
Sequence:	Y0F0932	Lab Sample ID:	Y0F0932-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	27.7	PASS
75	30 - 60% of 95	52.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.47	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	89.8	PASS
175	5 - 9% of 174	8.06	PASS
176	95 - 101% of 174	97.1	PASS
177	5 - 9% of 176	6.74	PASS

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Sequence:	Y0F0307	Instrument:	QVOA9
		Calibration:	YF00003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y0F0307-TUN1	QV911780.D	05/20/20 17:37
Cal Standard	Y0F0307-CAL1	QV911782.D	05/20/20 18:31
Cal Standard	Y0F0307-CAL2	QV911783.D	05/20/20 18:58
Cal Standard	Y0F0307-CAL3	QV911784.D	05/20/20 19:25
Cal Standard	Y0F0307-CAL4	QV911785.D	05/20/20 19:52
Cal Standard	Y0F0307-CAL5	QV911786.D	05/20/20 20:20
Cal Standard	Y0F0307-CAL6	QV911787.D	05/20/20 20:47
Cal Standard	Y0F0307-CAL7	QV911788.D	05/20/20 21:14
Cal Standard	Y0F0307-CAL8	QV911789.D	05/20/20 21:42
Cal Standard	Y0F0307-CAL9	QV911790.D	05/20/20 22:09
Secondary Cal Check	Y0F0307-SCV1	QV911793.D	05/20/20 23:30

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Sequence:	Y0F0409	Instrument:	QVOA6
		Calibration:	YF00005

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y0F0409-TUN1	QV619335.D	05/18/20 18:14
Cal Standard	Y0F0409-CAL1	QV619337.D	05/18/20 21:15
Cal Standard	Y0F0409-CAL2	QV619338.D	05/18/20 22:16
Cal Standard	Y0F0409-CAL3	QV619339.D	05/18/20 23:12
Cal Standard	Y0F0409-CAL4	QV619340.D	05/19/20 00:04
Cal Standard	Y0F0409-CAL5	QV619341.D	05/19/20 00:51
Cal Standard	Y0F0409-CAL6	QV619342.D	05/19/20 01:35
Cal Standard	Y0F0409-CAL7	QV619343.D	05/19/20 02:15
Cal Standard	Y0F0409-CAL8	QV619344.D	05/19/20 02:54
Cal Standard	Y0F0409-CAL9	QV619345.D	05/19/20 03:32
Secondary Cal Check	Y0F0409-SCV1	QV619348.D	05/19/20 05:19

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Sequence:	Y0F0821	Instrument:	QVOA6
		Calibration:	YF00005

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y0F0821-TUN1	QV619420.D	06/05/20 10:03
Calibration Check	Y0F0821-CCV1	QV619422.D	06/05/20 11:08
LCS	BF00412-BS1	QV619425.D	06/05/20 12:54
LCS Dup	BF00412-BSD1	QV619426.D	06/05/20 13:49
Blank	BF00412-BLK1	QV619428.D	06/05/20 14:50
KC-MW-01 0620	20F0067-01	QV619433.D	06/05/20 17:29
KC-MW-DUP 0620	20F0067-06	QV619437.D	06/05/20 20:01

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Sequence:	Y0F0919	Instrument:	QVOA9
		Calibration:	YF00003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y0F0919-TUN1	QV912162.D	06/09/20 00:55
Calibration Check	Y0F0919-CCV1	QV912163.D	06/09/20 01:26
Blank	BF00478-BLK1	QV912168.D	06/09/20 04:01
KC-MW-02 0620	20F0067-02	QV912170.D	06/09/20 05:01
KC-MW-05 0620	20F0067-03	QV912171.D	06/09/20 05:30
LCS	BF00478-BS1	QV912178.D	06/09/20 08:50
LCS Dup	BF00478-BSD1	QV912179.D	06/09/20 09:18
TRIP BLANK 0620	20F0067-05	QV912181.D	06/09/20 10:23
KC-MW-07 0620	20F0067-04	QV912184.D	06/09/20 11:45

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Sequence:	Y0F0932	Instrument:	QVOA6
		Calibration:	YF00005

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y0F0932-TUN1	QV619461.D	06/08/20 11:09
Calibration Check	Y0F0932-CCV1	QV619462.D	06/08/20 11:37
LCS	BF00479-BS1	QV619463.D	06/08/20 12:22
Blank	BF00479-BLK1	QV619467.D	06/08/20 13:55
LCS Dup	BF00479-BSD1	QV619469.D	06/08/20 15:30
KC-MW-01 0620	20F0067-01RE1	QV619472.D	06/08/20 17:27
KC-MW-DUP 0620	20F0067-06RE1	QV619473.D	06/08/20 17:58

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS
Sequence: Y0F0307 Instrument: QVOA9
Calibration: YF00003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (Y0F0307-CAL1)			Lab File ID: QV911782.D			Analyzed: 05/20/20 18:31			
ISTD: Fluorobenzene	155794	5.744	157604	5.741	99	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	630456	8.792	657847	8.792	96	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	256375	11.779	271604	11.782	94	50 - 200	-0.0030	+/-0.17	
Cal Standard (Y0F0307-CAL2)			Lab File ID: QV911783.D			Analyzed: 05/20/20 18:58			
ISTD: Fluorobenzene	150752	5.74	157604	5.741	96	50 - 200	-0.0010	+/-0.17	
ISTD: Chlorobenzene-d5	623817	8.792	657847	8.792	95	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	248689	11.782	271604	11.782	92	50 - 200	0.0000	+/-0.17	
Cal Standard (Y0F0307-CAL3)			Lab File ID: QV911784.D			Analyzed: 05/20/20 19:25			
ISTD: Fluorobenzene	159527	5.743	157604	5.741	101	50 - 200	0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	656894	8.792	657847	8.792	100	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	259551	11.779	271604	11.782	96	50 - 200	-0.0030	+/-0.17	
Cal Standard (Y0F0307-CAL4)			Lab File ID: QV911785.D			Analyzed: 05/20/20 19:52			
ISTD: Fluorobenzene	157604	5.741	157604	5.741	100	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	657847	8.792	657847	8.792	100	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	271604	11.782	271604	11.782	100	50 - 200	0.0000	+/-0.17	
Cal Standard (Y0F0307-CAL5)			Lab File ID: QV911786.D			Analyzed: 05/20/20 20:20			
ISTD: Fluorobenzene	162523	5.743	157604	5.741	103	50 - 200	0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	672195	8.795	657847	8.792	102	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	275292	11.782	271604	11.782	101	50 - 200	0.0000	+/-0.17	
Cal Standard (Y0F0307-CAL6)			Lab File ID: QV911787.D			Analyzed: 05/20/20 20:47			
ISTD: Fluorobenzene	164346	5.743	157604	5.741	104	50 - 200	0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	682335	8.792	657847	8.792	104	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	266686	11.782	271604	11.782	98	50 - 200	0.0000	+/-0.17	
Cal Standard (Y0F0307-CAL7)			Lab File ID: QV911788.D			Analyzed: 05/20/20 21:14			
ISTD: Fluorobenzene	167592	5.744	157604	5.741	106	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	695126	8.792	657847	8.792	106	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	254547	11.782	271604	11.782	94	50 - 200	0.0000	+/-0.17	
Cal Standard (Y0F0307-CAL8)			Lab File ID: QV911789.D			Analyzed: 05/20/20 21:42			
ISTD: Fluorobenzene	172174	5.74	157604	5.741	109	50 - 200	-0.0010	+/-0.17	
ISTD: Chlorobenzene-d5	685439	8.795	657847	8.792	104	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	240339	11.782	271604	11.782	88	50 - 200	0.0000	+/-0.17	
Cal Standard (Y0F0307-CAL9)			Lab File ID: QV911790.D			Analyzed: 05/20/20 22:09			
ISTD: Fluorobenzene	174651	5.743	157604	5.741	111	50 - 200	0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	710360	8.795	657847	8.792	108	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	245264	11.788	271604	11.782	90	50 - 200	0.0060	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS
Sequence: Y0F0307 Instrument: QVOA9
Calibration: YF00003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (Y0F0307-SCV1)			Lab File ID: QV911793.D			Analyzed: 05/20/20 23:30			
ISTD: Fluorobenzene	178330	5.744	157604	5.741	113	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	728756	8.792	657847	8.792	111	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	289853	11.779	271604	11.782	107	50 - 200	-0.0030	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS
Sequence: Y0F0409 Instrument: QVOA6
Calibration: YF00005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (Y0F0409-CAL1)			Lab File ID: QV619337.D			Analyzed: 05/18/20 21:15			
ISTD: Fluorobenzene	56788	6.123	56707	6.128	100	50 - 200	-0.0050	+/-0.17	
ISTD: Chlorobenzene-d5	197542	9.191	192291	9.194	103	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	82061	12.174	76576	12.174	107	50 - 200	0.0000	+/-0.17	
Cal Standard (Y0F0409-CAL2)			Lab File ID: QV619338.D			Analyzed: 05/18/20 22:16			
ISTD: Fluorobenzene	56633	6.126	56707	6.128	100	50 - 200	-0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	195177	9.194	192291	9.194	102	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	81305	12.171	76576	12.174	106	50 - 200	-0.0030	+/-0.17	
Cal Standard (Y0F0409-CAL3)			Lab File ID: QV619339.D			Analyzed: 05/18/20 23:12			
ISTD: Fluorobenzene	55304	6.125	56707	6.128	98	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	193961	9.194	192291	9.194	101	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	81069	12.174	76576	12.174	106	50 - 200	0.0000	+/-0.17	
Cal Standard (Y0F0409-CAL4)			Lab File ID: QV619340.D			Analyzed: 05/19/20 00:04			
ISTD: Fluorobenzene	56707	6.128	56707	6.128	100	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	192291	9.194	192291	9.194	100	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	76576	12.174	76576	12.174	100	50 - 200	0.0000	+/-0.17	
Cal Standard (Y0F0409-CAL5)			Lab File ID: QV619341.D			Analyzed: 05/19/20 00:51			
ISTD: Fluorobenzene	56173	6.131	56707	6.128	99	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	195101	9.191	192291	9.194	101	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	76924	12.174	76576	12.174	100	50 - 200	0.0000	+/-0.17	
Cal Standard (Y0F0409-CAL6)			Lab File ID: QV619342.D			Analyzed: 05/19/20 01:35			
ISTD: Fluorobenzene	52647	6.131	56707	6.128	93	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	176566	9.194	192291	9.194	92	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	70640	12.177	76576	12.174	92	50 - 200	0.0030	+/-0.17	
Cal Standard (Y0F0409-CAL7)			Lab File ID: QV619343.D			Analyzed: 05/19/20 02:15			
ISTD: Fluorobenzene	52427	6.131	56707	6.128	92	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	174050	9.194	192291	9.194	91	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	71218	12.177	76576	12.174	93	50 - 200	0.0030	+/-0.17	
Cal Standard (Y0F0409-CAL8)			Lab File ID: QV619344.D			Analyzed: 05/19/20 02:54			
ISTD: Fluorobenzene	51586	6.128	56707	6.128	91	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	163830	9.197	192291	9.194	85	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	70257	12.177	76576	12.174	92	50 - 200	0.0030	+/-0.17	
Cal Standard (Y0F0409-CAL9)			Lab File ID: QV619345.D			Analyzed: 05/19/20 03:32			
ISTD: Fluorobenzene	49830	6.134	56707	6.128	88	50 - 200	0.0060	+/-0.17	
ISTD: Chlorobenzene-d5	156711	9.197	192291	9.194	81	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	67466	12.18	76576	12.174	88	50 - 200	0.0060	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS
Sequence: Y0F0409 Instrument: QVOA6
Calibration: YF00005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (Y0F0409-SCV1)			Lab File ID: QV619348.D			Analyzed: 05/19/20 05:19			
ISTD: Fluorobenzene	48689	6.136	56707	6.128	86	50 - 200	0.0080	+/-0.17	
ISTD: Chlorobenzene-d5	171356	9.197	192291	9.194	89	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	74580	12.174	76576	12.174	97	50 - 200	0.0000	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS
Sequence: Y0F0821 Instrument: QVOA6
Calibration: YF00005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (Y0F0821-CCV1)			Lab File ID: QV619422.D			Analyzed: 06/05/20 11:08			
ISTD: Fluorobenzene	49957	6.131				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	185241	9.186				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	82039	12.16				50 - 200		+/-0.17	
LCS (BF00412-BS1)			Lab File ID: QV619425.D			Analyzed: 06/05/20 12:54			
ISTD: Fluorobenzene	51351	6.131	49957	6.131	103	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	188864	9.186	185241	9.186	102	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	83989	12.163	82039	12.16	102	50 - 200	0.0030	+/-0.17	
LCS Dup (BF00412-BSD1)			Lab File ID: QV619426.D			Analyzed: 06/05/20 13:49			
ISTD: Fluorobenzene	53298	6.134	49957	6.131	107	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	197390	9.183	185241	9.186	107	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	88660	12.163	82039	12.16	108	50 - 200	0.0030	+/-0.17	
Blank (BF00412-BLK1)			Lab File ID: QV619428.D			Analyzed: 06/05/20 14:50			
ISTD: Fluorobenzene	44801	6.131	49957	6.131	90	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	168313	9.186	185241	9.186	91	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	75887	12.163	82039	12.16	93	50 - 200	0.0030	+/-0.17	
KC-MW-01 0620 (20F0067-01)			Lab File ID: QV619433.D			Analyzed: 06/05/20 17:29			
ISTD: Fluorobenzene	42315	6.136	49957	6.131	85	50 - 200	0.0050	+/-0.17	
ISTD: Chlorobenzene-d5	145553	9.189	185241	9.186	79	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	63013	12.166	82039	12.16	77	50 - 200	0.0060	+/-0.17	
KC-MW-DUP 0620 (20F0067-06)			Lab File ID: QV619437.D			Analyzed: 06/05/20 20:01			
ISTD: Fluorobenzene	46545	6.134	49957	6.131	93	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	160950	9.189	185241	9.186	87	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	68620	12.168	82039	12.16	84	50 - 200	0.0080	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS
Sequence: Y0F0919 Instrument: QVOA9
Calibration: YF00003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (Y0F0919-CCV1)			Lab File ID: QV912163.D			Analyzed: 06/09/20 01:26			
ISTD: Fluorobenzene	144711	5.74				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	586505	8.789				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	242025	11.779				50 - 200		+/-0.17	
Blank (BF00478-BLK1)			Lab File ID: QV912168.D			Analyzed: 06/09/20 04:01			
ISTD: Fluorobenzene	158749	5.746	144711	5.74	110	50 - 200	0.0060	+/-0.17	
ISTD: Chlorobenzene-d5	624999	8.792	586505	8.789	107	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	235477	11.779	242025	11.779	97	50 - 200	0.0000	+/-0.17	
KC-MW-02 0620 (20F0067-02)			Lab File ID: QV912170.D			Analyzed: 06/09/20 05:01			
ISTD: Fluorobenzene	145354	5.744	144711	5.74	100	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	590158	8.792	586505	8.789	101	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	230211	11.773	242025	11.779	95	50 - 200	-0.0060	+/-0.17	
KC-MW-05 0620 (20F0067-03)			Lab File ID: QV912171.D			Analyzed: 06/09/20 05:30			
ISTD: Fluorobenzene	145370	5.746	144711	5.74	100	50 - 200	0.0060	+/-0.17	
ISTD: Chlorobenzene-d5	598609	8.789	586505	8.789	102	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	234654	11.773	242025	11.779	97	50 - 200	-0.0060	+/-0.17	
LCS (BF00478-BS1)			Lab File ID: QV912178.D			Analyzed: 06/09/20 08:50			
ISTD: Fluorobenzene	144131	5.746	144711	5.74	100	50 - 200	0.0060	+/-0.17	
ISTD: Chlorobenzene-d5	593391	8.789	586505	8.789	101	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	234705	11.782	242025	11.779	97	50 - 200	0.0030	+/-0.17	
LCS Dup (BF00478-BSD1)			Lab File ID: QV912179.D			Analyzed: 06/09/20 09:18			
ISTD: Fluorobenzene	162299	5.746	144711	5.74	112	50 - 200	0.0060	+/-0.17	
ISTD: Chlorobenzene-d5	670628	8.792	586505	8.789	114	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	261774	11.779	242025	11.779	108	50 - 200	0.0000	+/-0.17	
TRIP BLANK 0620 (20F0067-05)			Lab File ID: QV912181.D			Analyzed: 06/09/20 10:23			
ISTD: Fluorobenzene	183621	5.743	144711	5.74	127	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	739241	8.789	586505	8.789	126	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	232752	11.782	242025	11.779	96	50 - 200	0.0030	+/-0.17	
KC-MW-07 0620 (20F0067-04)			Lab File ID: QV912184.D			Analyzed: 06/09/20 11:45			
ISTD: Fluorobenzene	191288	5.743	144711	5.74	132	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	758686	8.789	586505	8.789	129	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	274434	11.782	242025	11.779	113	50 - 200	0.0030	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS
Sequence: Y0F0932 Instrument: QVOA6
Calibration: YF00005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (Y0F0932-CCV1)			Lab File ID: QV619462.D			Analyzed: 06/08/20 11:37			
ISTD: Fluorobenzene	52499	6.131				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	192611	9.186				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	87449	12.163				50 - 200		+/-0.17	
LCS (BF00479-BS1)			Lab File ID: QV619463.D			Analyzed: 06/08/20 12:22			
ISTD: Fluorobenzene	53763	6.128	52499	6.131	102	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	201223	9.18	192611	9.186	104	50 - 200	-0.0060	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	88813	12.157	87449	12.163	102	50 - 200	-0.0060	+/-0.17	
Blank (BF00479-BLK1)			Lab File ID: QV619467.D			Analyzed: 06/08/20 13:55			
ISTD: Fluorobenzene	47871	6.125	52499	6.131	91	50 - 200	-0.0060	+/-0.17	
ISTD: Chlorobenzene-d5	176844	9.183	192611	9.186	92	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	78220	12.163	87449	12.163	89	50 - 200	0.0000	+/-0.17	
LCS Dup (BF00479-BSD1)			Lab File ID: QV619469.D			Analyzed: 06/08/20 15:30			
ISTD: Fluorobenzene	53415	6.128	52499	6.131	102	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	196608	9.18	192611	9.186	102	50 - 200	-0.0060	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	89358	12.16	87449	12.163	102	50 - 200	-0.0030	+/-0.17	
KC-MW-01 0620 (20F0067-01RE1)			Lab File ID: QV619472.D			Analyzed: 06/08/20 17:27			
ISTD: Fluorobenzene	54315	6.125	52499	6.131	103	50 - 200	-0.0060	+/-0.17	
ISTD: Chlorobenzene-d5	197497	9.183	192611	9.186	103	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	83961	12.163	87449	12.163	96	50 - 200	0.0000	+/-0.17	
KC-MW-DUP 0620 (20F0067-06RE1)			Lab File ID: QV619473.D			Analyzed: 06/08/20 17:58			
ISTD: Fluorobenzene	56846	6.128	52499	6.131	108	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	205272	9.186	192611	9.186	107	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	85704	12.16	87449	12.163	98	50 - 200	-0.0030	+/-0.17	

HOLDING TIME SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
KC-MW-01 0620	06/01/20 12:39	06/02/20 19:05	06/05/20 06:57	3.76	14.00	06/05/20 17:29	4.20	14.00	
KC-MW-01 0620	06/01/20 12:39	06/02/20 19:05	06/05/20 06:57	3.76	14.00	06/08/20 17:27	7.20	14.00	
KC-MW-02 0620	06/01/20 11:20	06/02/20 19:05	06/05/20 06:57	3.82	14.00	06/09/20 05:01	7.74	14.00	
KC-MW-05 0620	06/01/20 10:30	06/02/20 19:05	06/05/20 06:57	3.85	14.00	06/09/20 05:30	7.79	14.00	
KC-MW-07 0620	06/01/20 14:41	06/02/20 19:05	06/08/20 06:13	6.65	14.00	06/09/20 11:45	7.88	14.00	
TRIP BLANK 0620	06/01/20 00:00	06/02/20 19:05	06/08/20 06:13	7.26	14.00	06/09/20 10:23	8.43	14.00	
KC-MW-DUP 0620	06/01/20 00:00	06/02/20 19:05	06/05/20 06:57	4.29	14.00	06/05/20 20:01	4.83	14.00	
KC-MW-DUP 0620	06/01/20 00:00	06/02/20 19:05	06/05/20 06:57	4.29	14.00	06/08/20 17:58	7.75	14.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20F0067

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.20 Kingston CVS

Matrix: Water **Instrument:** QVOA6

Analyte	LOD	LOQ	Units
1,1,1,2-Tetrachloroethane	0.20	0.50	ug/L
1,1,1-Trichloroethane	0.20	0.50	ug/L
1,1,2,2-Tetrachloroethane	0.20	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.20	0.50	ug/L
1,1,2-Trichloroethane	0.20	0.50	ug/L
1,1-Dichloroethane	0.20	0.50	ug/L
1,1-Dichloroethylene	0.20	0.50	ug/L
1,2,3-Trichlorobenzene	0.20	0.50	ug/L
1,2,3-Trichloropropane	0.20	0.50	ug/L
1,2,4-Trichlorobenzene	0.20	0.50	ug/L
1,2,4-Trimethylbenzene	0.20	0.50	ug/L
1,2-Dibromo-3-chloropropane	0.20	0.50	ug/L
1,2-Dibromoethane	0.20	0.50	ug/L
1,2-Dichlorobenzene	0.20	0.50	ug/L
1,2-Dichloroethane	0.20	0.50	ug/L
1,2-Dichloropropane	0.20	0.50	ug/L
1,3,5-Trimethylbenzene	0.20	0.50	ug/L
1,3-Dichlorobenzene	0.20	0.50	ug/L
1,4-Dichlorobenzene	0.20	0.50	ug/L
1,4-Dioxane	40	40	ug/L
2-Butanone	0.20	0.50	ug/L
2-Hexanone	0.20	0.50	ug/L
4-Methyl-2-pentanone	0.20	0.50	ug/L
Acetone	1.0	2.0	ug/L
Acrolein	0.20	0.50	ug/L
Acrylonitrile	0.20	0.50	ug/L
Benzene	0.20	0.50	ug/L
Bromochloromethane	0.20	0.50	ug/L
Bromodichloromethane	0.20	0.50	ug/L
Bromoform	0.20	0.50	ug/L
Bromomethane	0.20	0.50	ug/L
Carbon disulfide	0.20	0.50	ug/L
Carbon tetrachloride	0.20	0.50	ug/L
Chlorobenzene	0.20	0.50	ug/L
Chloroethane	0.20	0.50	ug/L
Chloroform	0.20	0.50	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20F0067

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.20 Kingston CVS

Matrix: Water **Instrument:** QVOA6

Analyte	LOD	LOQ	Units
Chloromethane	0.20	0.50	ug/L
cis-1,2-Dichloroethylene	0.20	0.50	ug/L
cis-1,3-Dichloropropylene	0.20	0.50	ug/L
Cyclohexane	0.20	0.50	ug/L
Dibromochloromethane	0.20	0.50	ug/L
Dibromomethane	0.20	0.50	ug/L
Dichlorodifluoromethane	0.20	0.50	ug/L
Ethyl Benzene	0.20	0.50	ug/L
Hexachlorobutadiene	0.20	0.50	ug/L
Isopropylbenzene	0.20	0.50	ug/L
Methyl acetate	0.20	0.50	ug/L
Methyl tert-butyl ether (MTBE)	0.20	0.50	ug/L
Methylcyclohexane	0.20	0.50	ug/L
Methylene chloride	1.0	2.0	ug/L
n-Butylbenzene	0.20	0.50	ug/L
n-Propylbenzene	0.20	0.50	ug/L
o-Xylene	0.20	0.50	ug/L
p- & m- Xylenes	0.50	1.0	ug/L
p-Isopropyltoluene	0.20	0.50	ug/L
sec-Butylbenzene	0.20	0.50	ug/L
Styrene	0.20	0.50	ug/L
tert-Butyl alcohol (TBA)	0.50	1.0	ug/L
tert-Butylbenzene	0.20	0.50	ug/L
Tetrachloroethylene	0.20	0.50	ug/L
Toluene	0.20	0.50	ug/L
trans-1,2-Dichloroethylene	0.20	0.50	ug/L
trans-1,3-Dichloropropylene	0.20	0.50	ug/L
trans-1,4-dichloro-2-butene	0.20	0.50	ug/L
Trichloroethylene	0.20	0.50	ug/L
Trichlorofluoromethane	0.20	0.50	ug/L
Vinyl Chloride	0.20	0.50	ug/L
Xylenes, Total	0.60	1.5	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20F0067

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.20 Kingston CVS

Matrix: Water **Instrument:** QVOA9

Analyte	LOD	LOQ	Units
1,1,1,2-Tetrachloroethane	0.20	0.50	ug/L
1,1,1-Trichloroethane	0.20	0.50	ug/L
1,1,2,2-Tetrachloroethane	0.20	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.20	0.50	ug/L
1,1,2-Trichloroethane	0.20	0.50	ug/L
1,1-Dichloroethane	0.20	0.50	ug/L
1,1-Dichloroethylene	0.20	0.50	ug/L
1,2,3-Trichlorobenzene	0.20	0.50	ug/L
1,2,3-Trichloropropane	0.20	0.50	ug/L
1,2,4-Trichlorobenzene	0.20	0.50	ug/L
1,2,4-Trimethylbenzene	0.20	0.50	ug/L
1,2-Dibromo-3-chloropropane	0.20	0.50	ug/L
1,2-Dibromoethane	0.20	0.50	ug/L
1,2-Dichlorobenzene	0.20	0.50	ug/L
1,2-Dichloroethane	0.20	0.50	ug/L
1,2-Dichloropropane	0.20	0.50	ug/L
1,3,5-Trimethylbenzene	0.20	0.50	ug/L
1,3-Dichlorobenzene	0.20	0.50	ug/L
1,4-Dichlorobenzene	0.20	0.50	ug/L
1,4-Dioxane	40	40	ug/L
2-Butanone	0.20	0.50	ug/L
2-Hexanone	0.20	0.50	ug/L
4-Methyl-2-pentanone	0.20	0.50	ug/L
Acetone	1.0	2.0	ug/L
Acrolein	0.20	0.50	ug/L
Acrylonitrile	0.20	0.50	ug/L
Benzene	0.20	0.50	ug/L
Bromochloromethane	0.20	0.50	ug/L
Bromodichloromethane	0.20	0.50	ug/L
Bromoform	0.20	0.50	ug/L
Bromomethane	0.20	0.50	ug/L
Carbon disulfide	0.20	0.50	ug/L
Carbon tetrachloride	0.20	0.50	ug/L
Chlorobenzene	0.20	0.50	ug/L
Chloroethane	0.20	0.50	ug/L
Chloroform	0.20	0.50	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20F0067

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.20 Kingston CVS

Matrix: Water **Instrument:** QVOA9

Analyte	LOD	LOQ	Units
Chloromethane	0.20	0.50	ug/L
cis-1,2-Dichloroethylene	0.20	0.50	ug/L
cis-1,3-Dichloropropylene	0.20	0.50	ug/L
Cyclohexane	0.20	0.50	ug/L
Dibromochloromethane	0.20	0.50	ug/L
Dibromomethane	0.20	0.50	ug/L
Dichlorodifluoromethane	0.20	0.50	ug/L
Ethyl Benzene	0.20	0.50	ug/L
Hexachlorobutadiene	0.20	0.50	ug/L
Isopropylbenzene	0.20	0.50	ug/L
Methyl acetate	0.20	0.50	ug/L
Methyl tert-butyl ether (MTBE)	0.20	0.50	ug/L
Methylcyclohexane	0.20	0.50	ug/L
Methylene chloride	1.0	2.0	ug/L
n-Butylbenzene	0.20	0.50	ug/L
n-Propylbenzene	0.20	0.50	ug/L
o-Xylene	0.20	0.50	ug/L
p- & m- Xylenes	0.50	1.0	ug/L
p-Isopropyltoluene	0.20	0.50	ug/L
sec-Butylbenzene	0.20	0.50	ug/L
Styrene	0.20	0.50	ug/L
tert-Butyl alcohol (TBA)	0.50	1.0	ug/L
tert-Butylbenzene	0.20	0.50	ug/L
Tetrachloroethylene	0.20	0.50	ug/L
Toluene	0.20	0.50	ug/L
trans-1,2-Dichloroethylene	0.20	0.50	ug/L
trans-1,3-Dichloropropylene	0.20	0.50	ug/L
trans-1,4-dichloro-2-butene	0.20	0.50	ug/L
Trichloroethylene	0.20	0.50	ug/L
Trichlorofluoromethane	0.20	0.50	ug/L
Vinyl Chloride	0.20	0.50	ug/L
Xylenes, Total	0.60	1.5	ug/L

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

KC-MW-01 0620

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	20F0067-01	File ID:	QV619433.D
Sampled:	06/01/20 12:39	Prepared:	06/05/20 06:57	Analyzed:	06/05/20 17:29
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF00412	Sequence:	Y0F0821	Calibration:	YF00005
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.43	J
75-34-3	1,1-Dichloroethane	1	21	
75-35-4	1,1-Dichloroethylene	1	150	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	1.0	
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	1.1	B
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-01 0620

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	20F0067-01	File ID:	QV619433.D
Sampled:	06/01/20 12:39	Prepared:	06/05/20 06:57	Analyzed:	06/05/20 17:29
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF00412	Sequence:	Y0F0821	Calibration:	YF00005
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.31	J
108-88-3	Toluene	1	1.5	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.68	96.8	69 - 130	
SURR: Toluene-d8	10.0	9.70	97.0	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.24	92.4	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	42315	6.136	49957	6.131	
ISTD: Chlorobenzene-d5	145553	9.189	185241	9.186	
ISTD: 1,2-Dichlorobenzene-d4	63013	12.166	82039	12.16	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060520A\
Data File : QV619433.D
Acq On : 5 Jun 2020 5:29 pm
InstName : QVOA6
Operator : TMP
Sample : 20F0067-01
Misc : QBQV6060520A COMP B AF
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 11:13:02 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Jun 03 10:29:09 2020
Response via : Initial Calibration

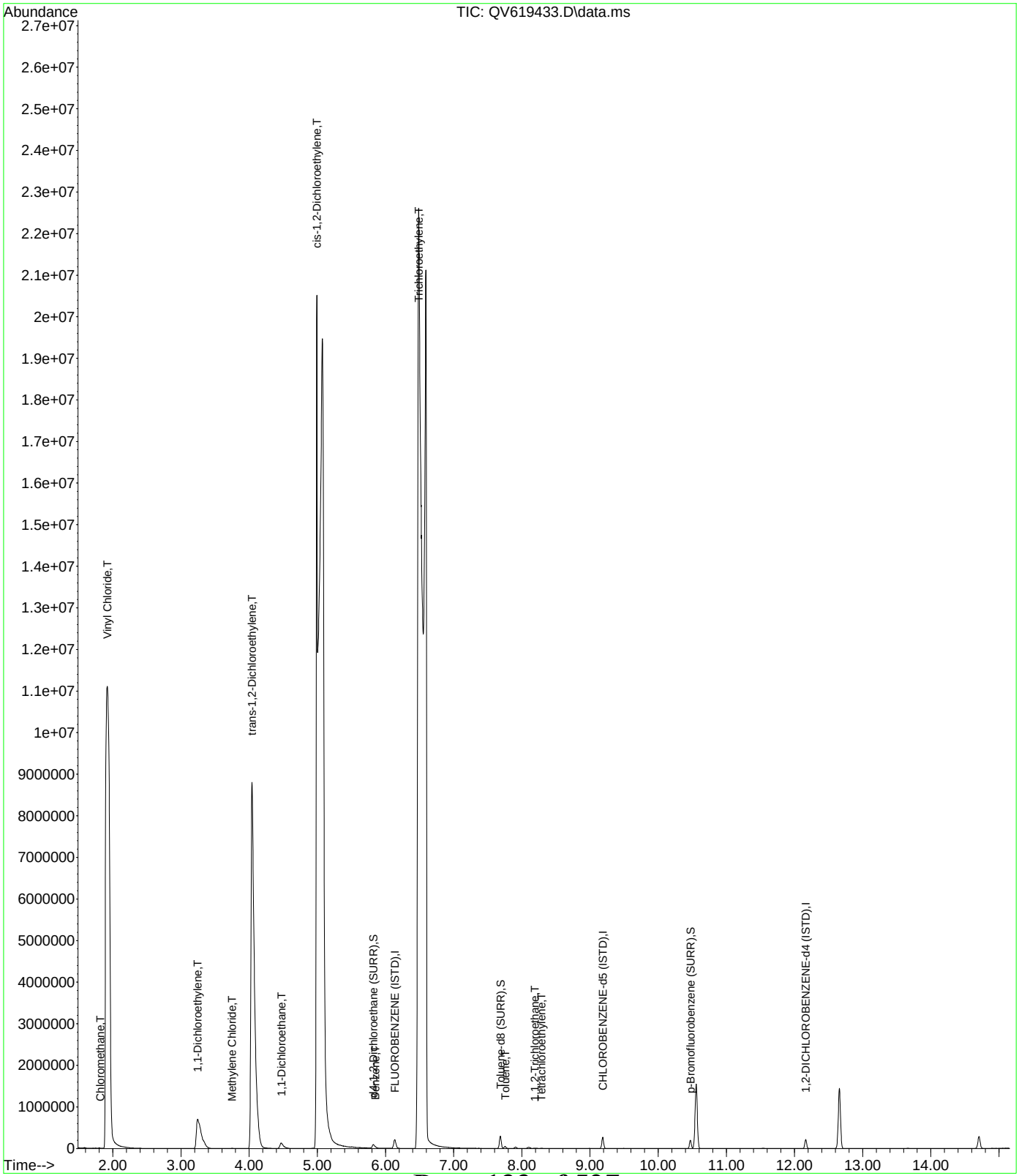
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.136	70	42315	10.00	ppb	#	0.01
41) CHLOROBENZENE-d5 (ISTD)	9.189	117	145553	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	12.166	152	63013	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.819	65	56511	9.68	ppb		0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 96.80%				
53) Toluene-d8 (SURR)	7.686	98	197073	9.70	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 97.00%				
73) p-Bromofluorobenzene (...	10.474	95	65869	9.24	ppb		0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 92.40%				
Target Compounds							Qvalue
3) Chloromethane	1.816	50	6691	1.14	ppb	#	89
4) Vinyl Chloride	1.919	62	24737308	4824.48	ppb	#	46
10) 1,1-Dichloroethylene	3.243	61	1180092	145.10	ppb	#	68
18) Methylene Chloride	3.747	49	4960m	0.63	ppb		
20) trans-1,2-Dichloroethy...	4.041	61	8970608	1139.69	ppb		100
22) 1,1-Dichloroethane	4.473	63	222124	21.47	ppb	#	97
26) cis-1,2-Dichloroethylene	4.993	61	32877616m	3517.64	ppb		
39) Benzene	5.850	78	20683	1.04	ppb	#	1
42) Trichloroethylene	6.487	95	22896361m	3954.94	ppb		
54) Toluene	7.756	91	33252	1.47	ppb		100
57) 1,1,2-Trichloroethane	8.187	97	1666	0.43	ppb	#	77
59) Tetrachloroethylene	8.287	166	1866	0.31	ppb	#	98

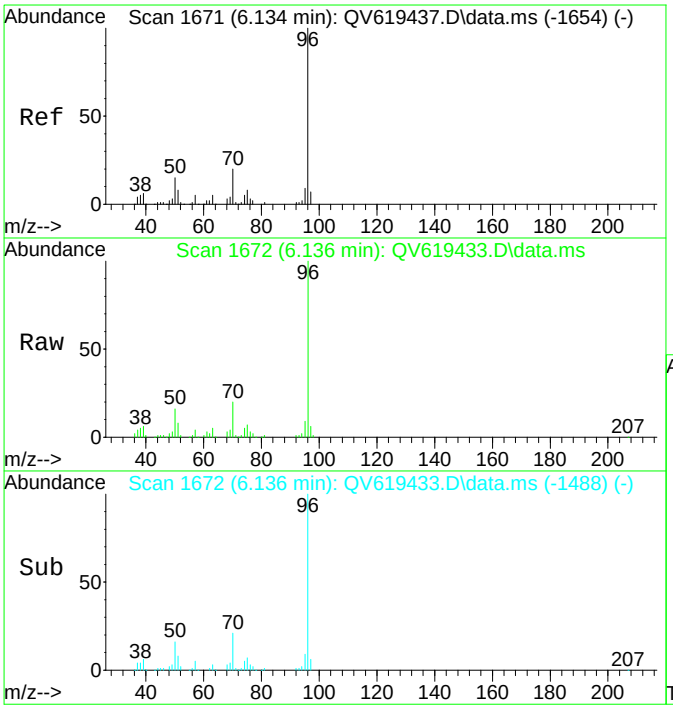
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060520A\
Data File : QV619433.D
Acq On : 5 Jun 2020 5:29 pm
InstName : QVOA6
Operator : TMP
Sample : 20F0067-01
Misc : QBQV6060520A COMP B AF
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 11:13:02 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Jun 03 10:29:09 2020
Response via : Initial Calibration

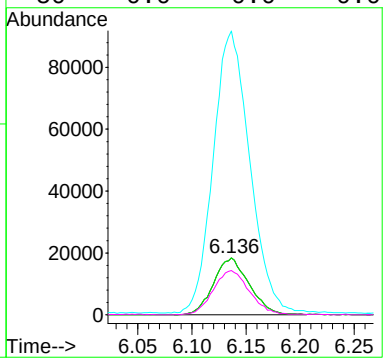


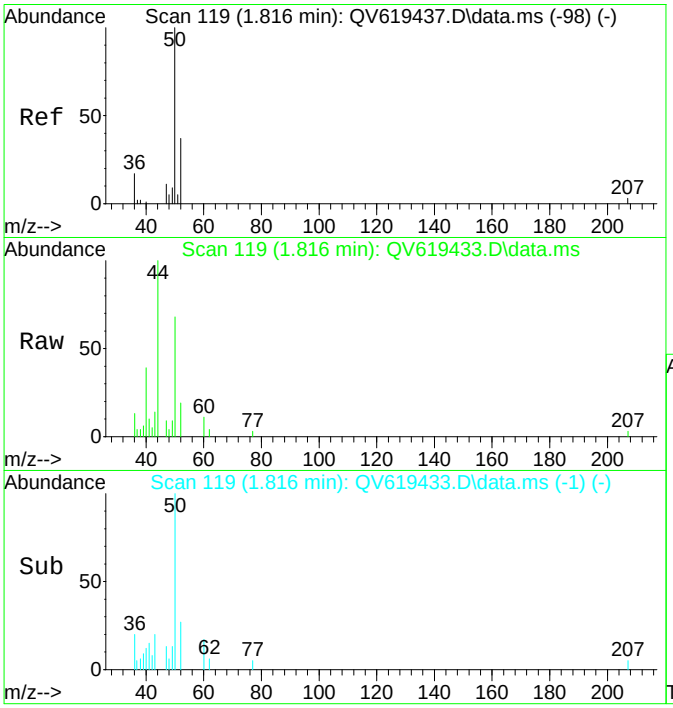


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 6.136 min Scan# 1672
Delta R.T. 0.011 min
Lab File: QV619433.D
Acq: 5 Jun 2020 5:29 pm

Tgt Ion: 70 Resp: 42315

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	505.5	341.1	708.3
50	0.0	0.0	0.0

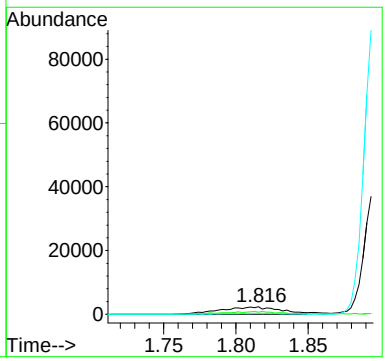


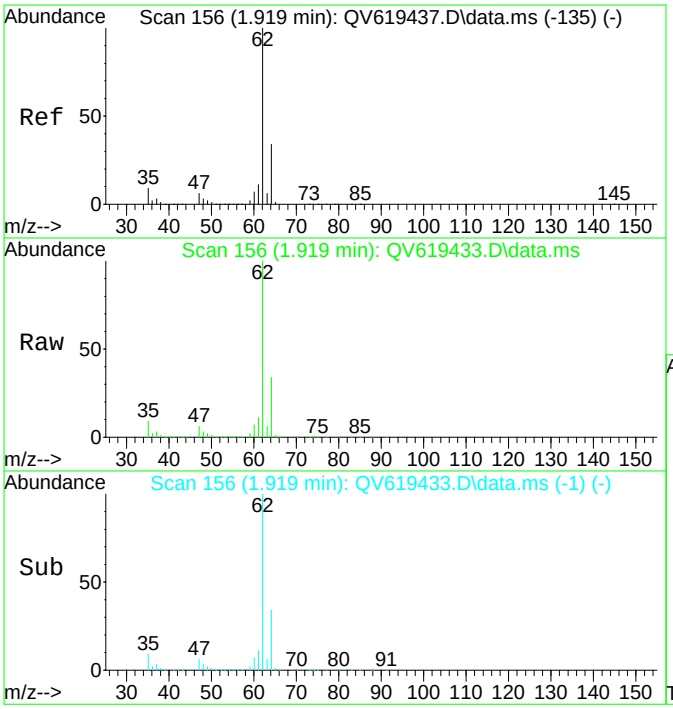


#3
Chloromethane
Concen: 1.14 ppb
RT: 1.816 min Scan# 119
Delta R.T. 0.034 min
Lab File: QV619433.D
Acq: 5 Jun 2020 5:29 pm

Tgt Ion: 50 Resp: 6691

Ion	Ratio	Lower	Upper
50	100		
52	12.1	5.2	10.8#
49	0.0	2.0	4.2#

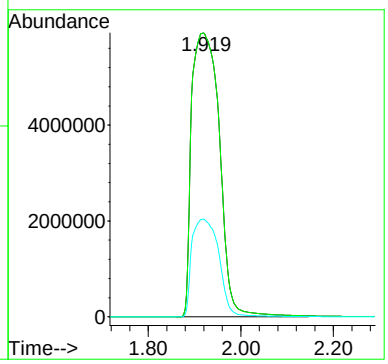


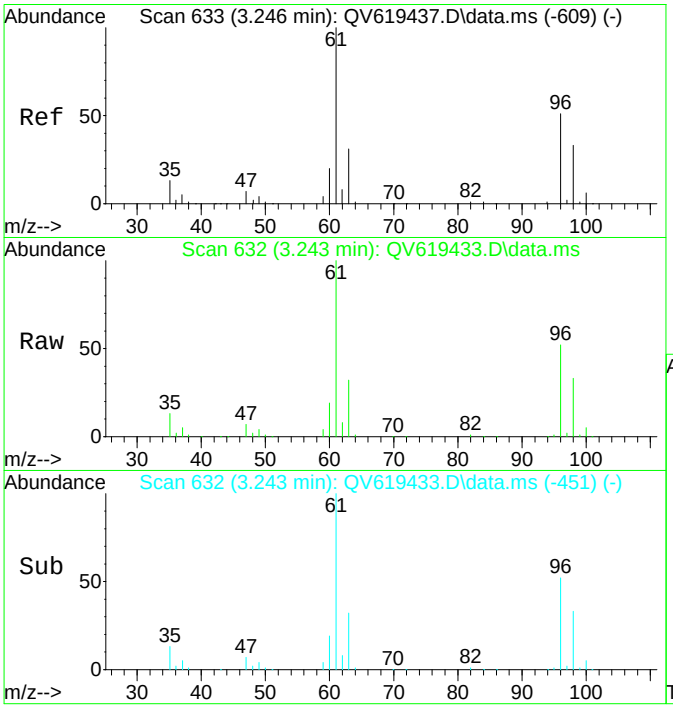


#4
Vinyl Chloride
Concen: 4824.48 ppb
RT: 1.919 min Scan# 156
Delta R.T. 0.009 min
Lab File: QV619433.D
Acq: 5 Jun 2020 5:29 pm

Tgt Ion: 62 Resp:24737308

Ion	Ratio	Lower	Upper
62	100		
62	100.0	36.0	74.8#
64	33.5	12.5	25.9#

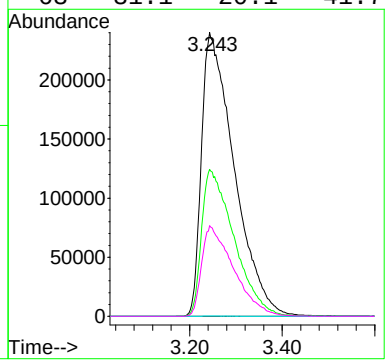


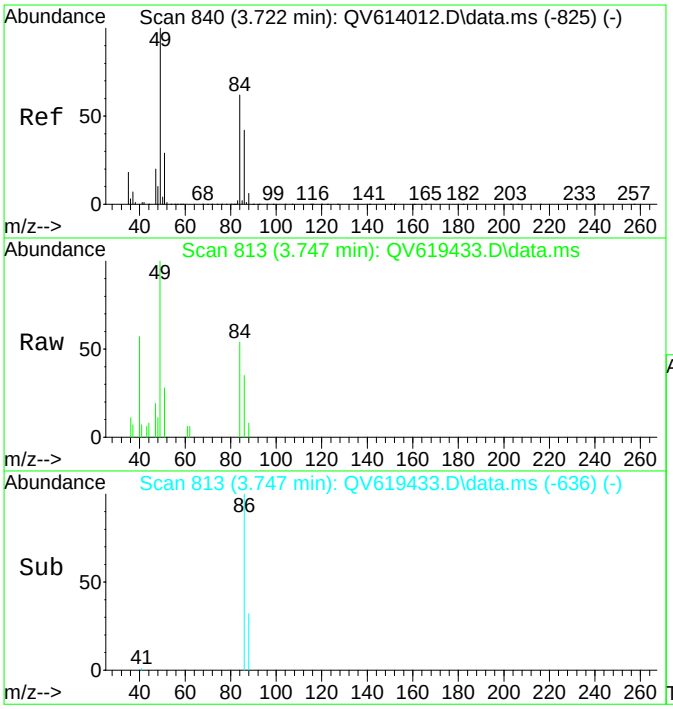


#10
1,1-Dichloroethylene
Concen: 145.10 ppb
RT: 3.243 min Scan# 632
Delta R.T. 0.003 min
Lab File: QV619433.D
Acq: 5 Jun 2020 5:29 pm

Tgt Ion: 61 Resp: 1180092

Ion	Ratio	Lower	Upper
61	100		
96	51.1	33.6	69.8
101	0.0	37.0	77.0#
63	31.1	20.1	41.7

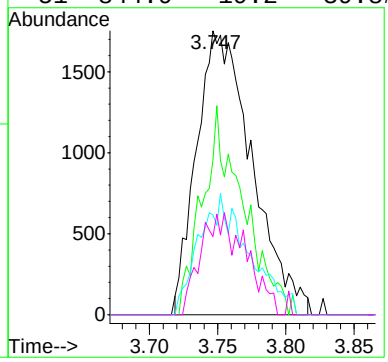


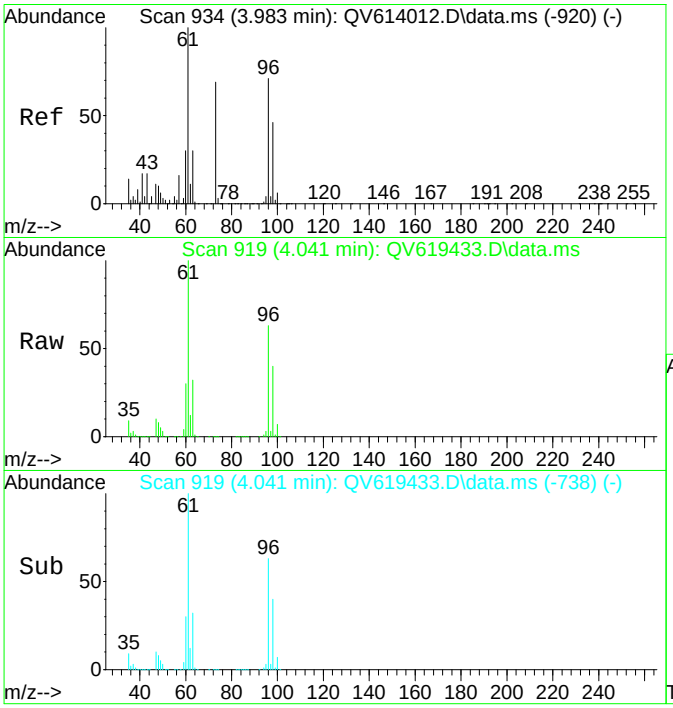


#18
Methylene Chloride
Concen: 0.63 ppb m
RT: 3.747 min Scan# 813
Delta R.T. -0.008 min
Lab File: QV619433.D
Acq: 5 Jun 2020 5:29 pm

Tgt Ion: 49 Resp: 4960

Ion	Ratio	Lower	Upper
49	100		
84	21.1	35.0	72.8#
86	4.1	22.7	47.3#
51	844.9	19.2	39.8#

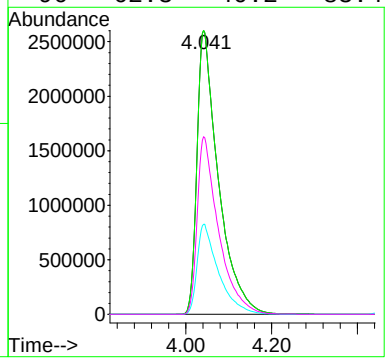


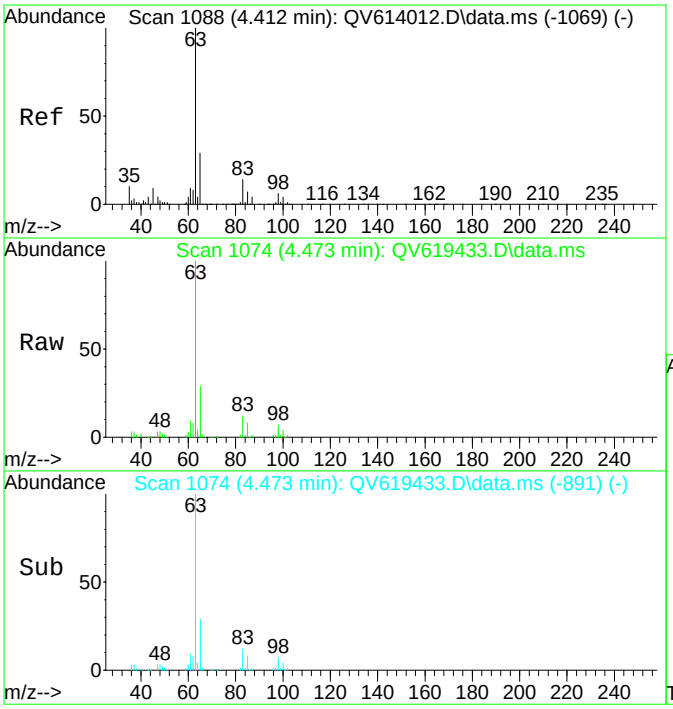


#20
trans-1,2-Dichloroethylene
Concen: 1139.69 ppb
RT: 4.041 min Scan# 919
Delta R.T. 0.002 min
Lab File: QV619433.D
Acq: 5 Jun 2020 5:29 pm

Tgt Ion: 61 Resp: 8970608

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	31.7	20.9	43.3
96	62.3	40.2	83.4

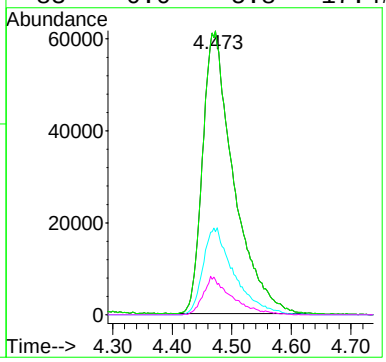


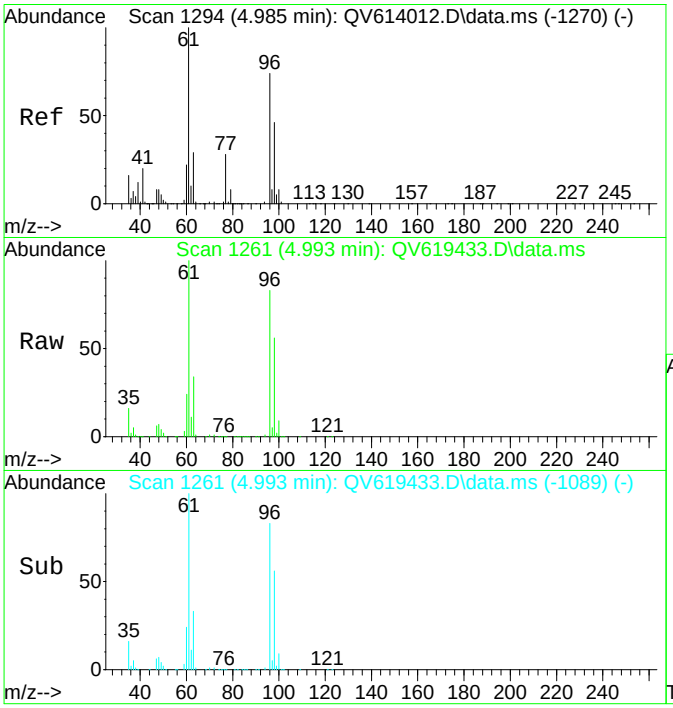


#22
1,1-Dichloroethane
Concen: 21.47 ppb
RT: 4.473 min Scan# 1074
Delta R.T. 0.009 min
Lab File: QV619433.D
Acq: 5 Jun 2020 5:29 pm

Tgt Ion: 63 Resp: 222124

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	30.9	19.4	40.2
83	0.0	5.8	17.4#

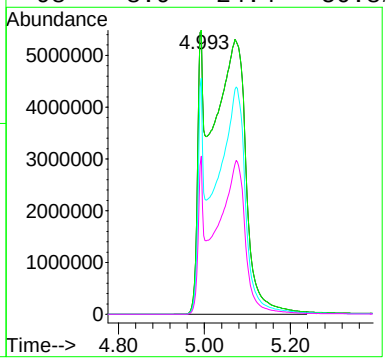


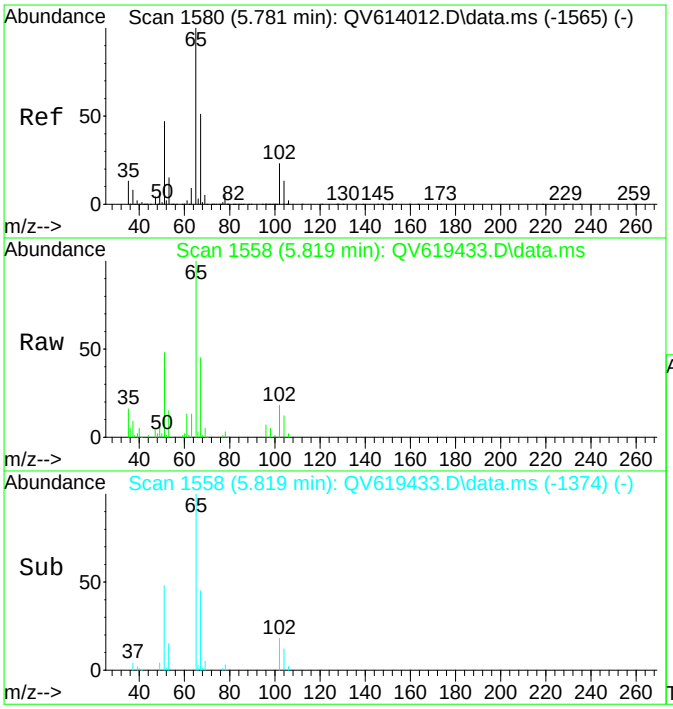


#26
cis-1,2-Dichloroethylene
Concen: 3517.64 ppb m
RT: 4.993 min Scan# 1261
Delta R.T. -0.022 min
Lab File: QV619433.D
Acq: 5 Jun 2020 5:29 pm

Tgt Ion: 61 Resp:32877616

Ion	Ratio	Lower	Upper
61	100		
61	19.3	65.0	135.0#
96	13.8	39.2	81.4#
98	8.9	24.4	50.8#

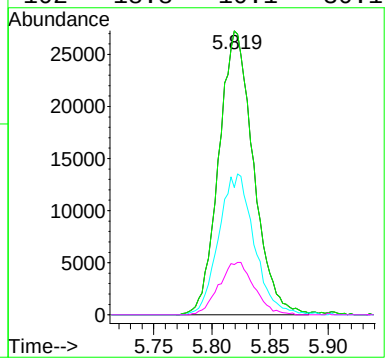


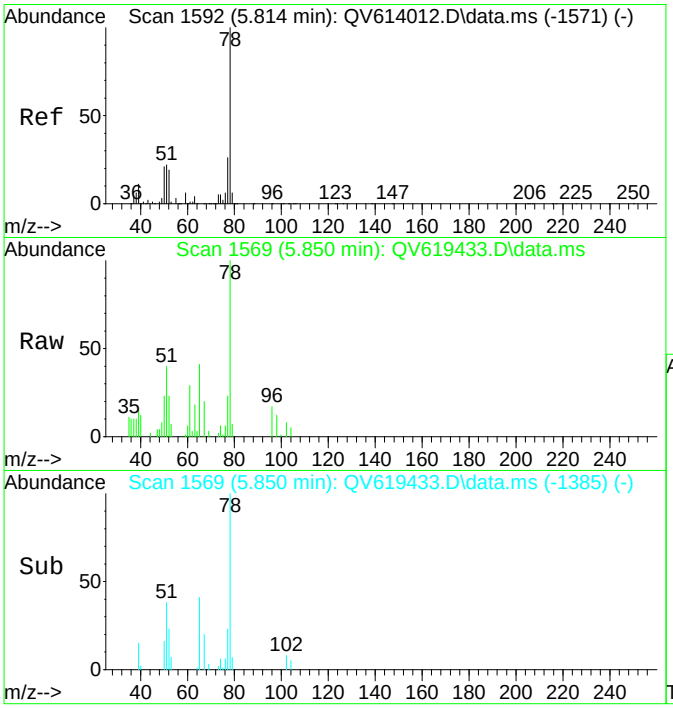


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.68 ppb
RT: 5.819 min Scan# 1558
Delta R.T. 0.011 min
Lab File: QV619433.D
Acq: 5 Jun 2020 5:29 pm

Tgt Ion: 65 Resp: 56511

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	50.8	34.0	70.6
102	18.8	10.1	30.1

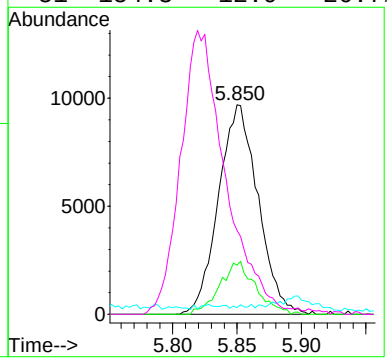


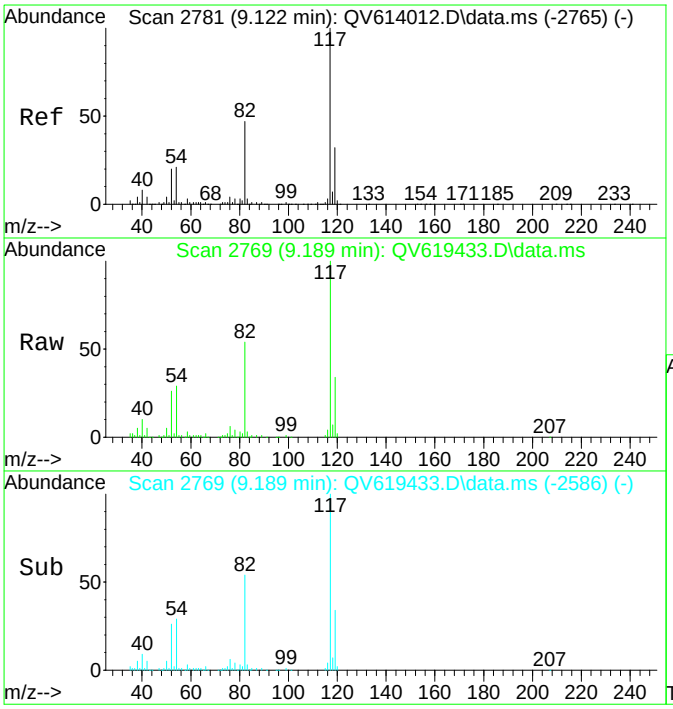


#39
Benzene
Concen: 1.04 ppb
RT: 5.850 min Scan# 1569
Delta R.T. 0.011 min
Lab File: QV619433.D
Acq: 5 Jun 2020 5:29 pm

Tgt Ion: 78 Resp: 20683

Ion	Ratio	Lower	Upper
78	100		
77	23.0	15.7	32.5
62	0.7	22.9	47.5#
51	154.3	12.9	26.7#

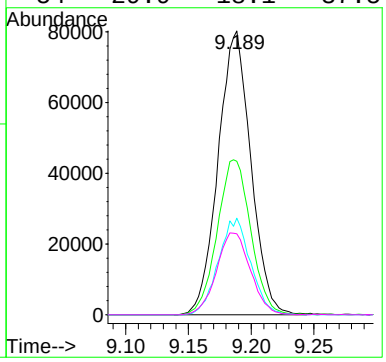


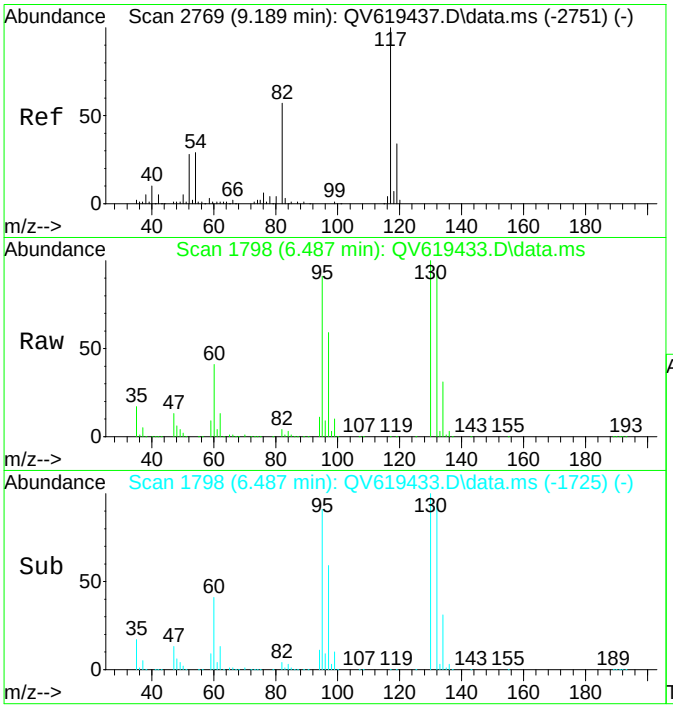


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 9.189 min Scan# 2769
Delta R.T. 0.009 min
Lab File: QV619433.D
Acq: 5 Jun 2020 5:29 pm

Tgt Ion:117 Resp: 145553

Ion	Ratio	Lower	Upper
117	100		
82	56.0	34.5	71.7
119	33.5	20.9	43.3
54	29.9	18.1	37.5

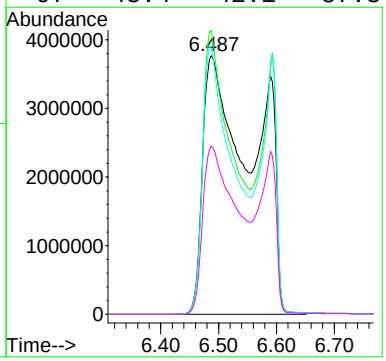


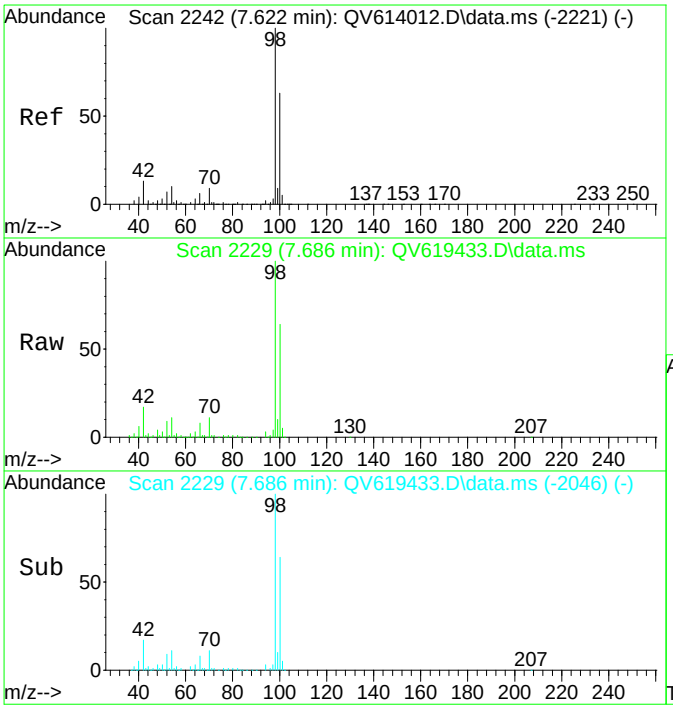


#42
Trichloroethylene
Concen: 3954.94 ppb m
RT: 6.487 min Scan# 1798
Delta R.T. 0.003 min
Lab File: QV619433.D
Acq: 5 Jun 2020 5:29 pm

Tgt Ion: 95 Resp:22896361

Ion	Ratio	Lower	Upper
95	100		
130	64.5	70.0	145.4#
132	61.8	69.6	144.6#
97	43.4	42.1	87.3

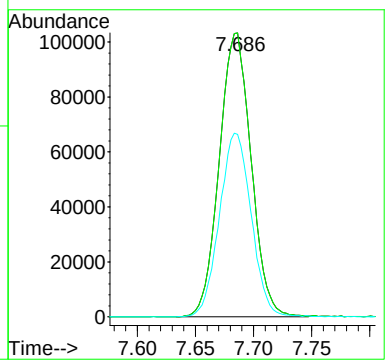


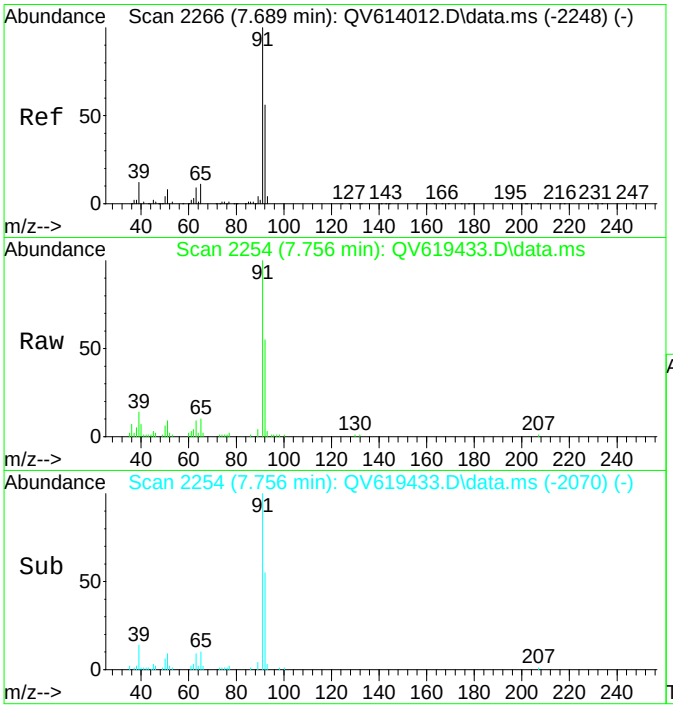


#53
Toluene-d8 (SURR)
Concen: 9.70 ppb
RT: 7.686 min Scan# 2229
Delta R.T. 0.008 min
Lab File: QV619433.D
Acq: 5 Jun 2020 5:29 pm

Tgt Ion: 98 Resp: 197073

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	64.5	44.2	91.8

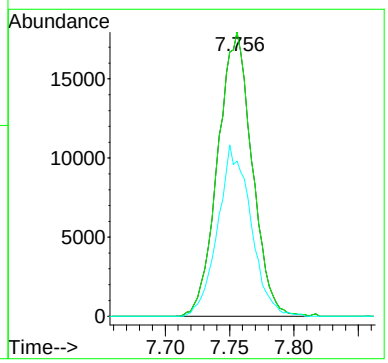


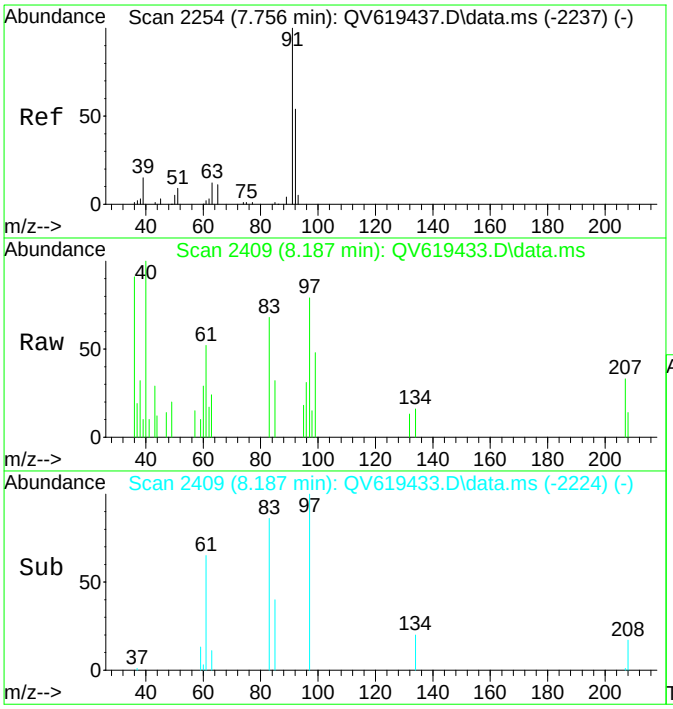


#54
Toluene
Concen: 1.47 ppb
RT: 7.756 min Scan# 2254
Delta R.T. 0.011 min
Lab File: QV619433.D
Acq: 5 Jun 2020 5:29 pm

Tgt Ion: 91 Resp: 33252

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
92	58.1	37.2	77.4

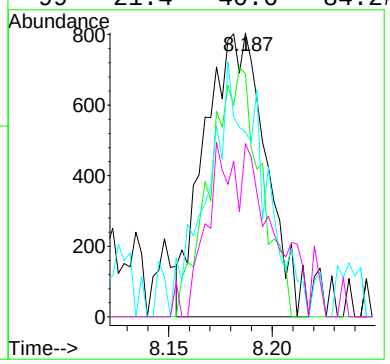


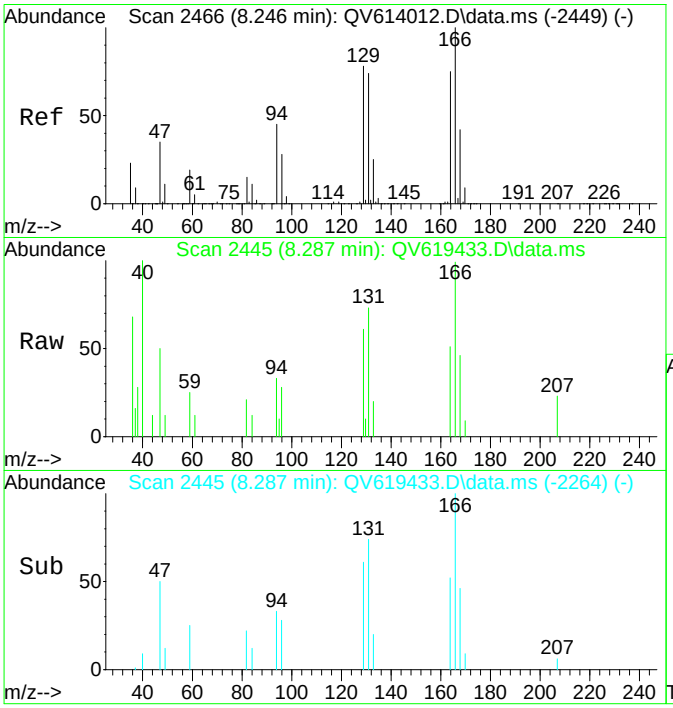


#57
1,1,2-Trichloroethane
Concen: 0.43 ppb
RT: 8.187 min Scan# 2409
Delta R.T. 0.014 min
Lab File: QV619433.D
Acq: 5 Jun 2020 5:29 pm

Tgt Ion: 97 Resp: 1666

Ion	Ratio	Lower	Upper
97	100		
83	72.7	56.3	116.9
61	79.4	47.8	99.4
99	21.4	40.6	84.2#

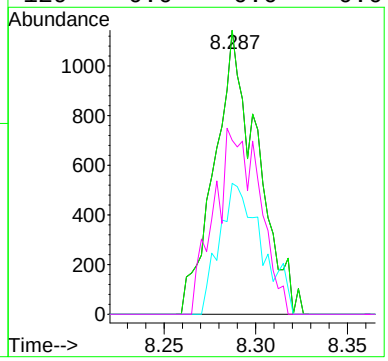


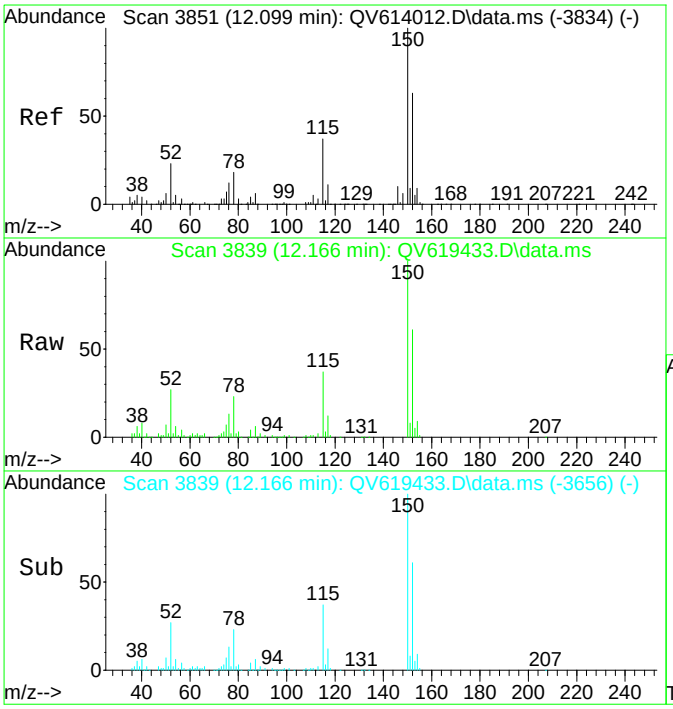


#59
Tetrachloroethylene
Concen: 0.31 ppb
RT: 8.287 min Scan# 2445
Delta R.T. 0.003 min
Lab File: QV619433.D
Acq: 5 Jun 2020 5:29 pm

Tgt Ion:166 Resp: 1866

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	45.3	31.7	65.7
129	0.0	0.0	0.0

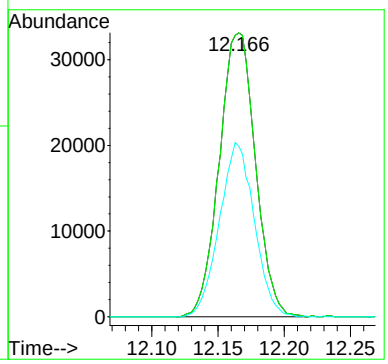


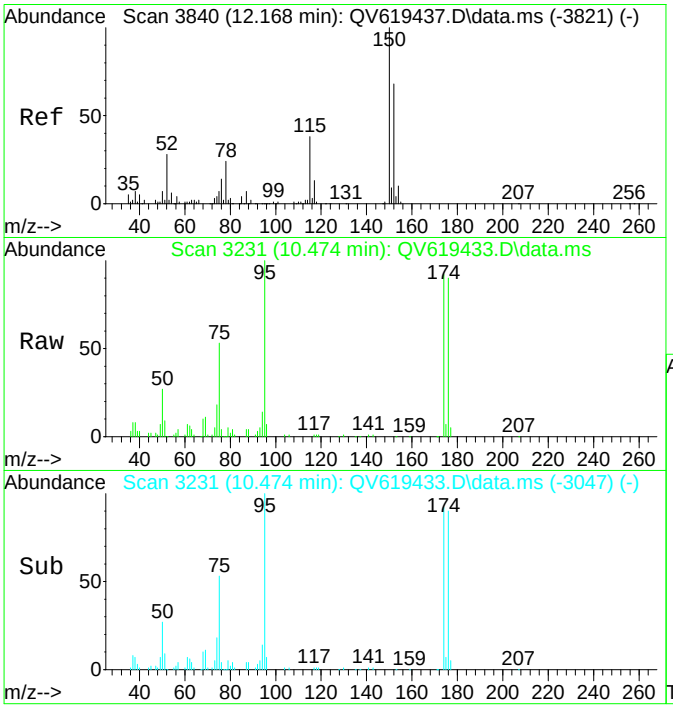


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 12.166 min Scan# 3839
Delta R.T. 0.009 min
Lab File: QV619433.D
Acq: 5 Jun 2020 5:29 pm

Tgt Ion:152 Resp: 63013

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	59.0	29.8	89.3

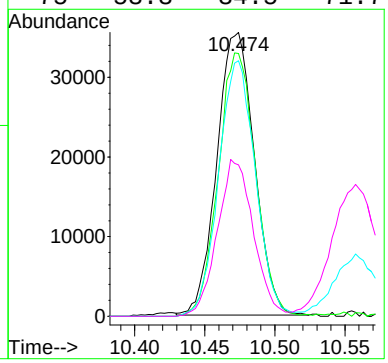




#73
p-Bromofluorobenzene (SURR)
Concen: 9.24 ppb
RT: 10.474 min Scan# 3231
Delta R.T. 0.011 min
Lab File: QV619433.D
Acq: 5 Jun 2020 5:29 pm

Tgt Ion: 95 Resp: 65869

Ion	Ratio	Lower	Upper
95	100		
174	92.3	62.5	129.9
176	88.7	60.7	126.1
75	53.3	34.5	71.7



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-01 0620

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	20F0067-01RE1	File ID:	QV619472.D
Sampled:	06/01/20 12:39	Prepared:	06/05/20 06:57	Analyzed:	06/08/20 17:27
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF00479	Sequence:	Y0F0932	Calibration:	YF00005
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	200	28000	BD
156-60-5	trans-1,2-Dichloroethylene	200	770	D
79-01-6	Trichloroethylene	200	24000	BD
75-01-4	Vinyl Chloride	200	5100	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.70	97.0	69 - 130	D
SURR: Toluene-d8	10.0	9.76	97.6	81 - 117	D
SURR: p-Bromofluorobenzene	10.0	9.42	94.2	79 - 122	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	54315	6.125	52499	6.131	
ISTD: Chlorobenzene-d5	197497	9.183	192611	9.186	
ISTD: 1,2-Dichlorobenzene-d4	83961	12.163	87449	12.163	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060820A\
Data File : QV619472.D
Acq On : 8 Jun 2020 5:27 pm
InstName : QVOA6
Operator : TMP
Sample : 20F0067-01RE1
Misc : QBQV6060820A COMP C 250UL/50ML
ALS Vial : 12 Sample Multiplier: 200

Quant Time: Jun 09 15:32:39 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue May 19 10:50:37 2020
Response via : Initial Calibration

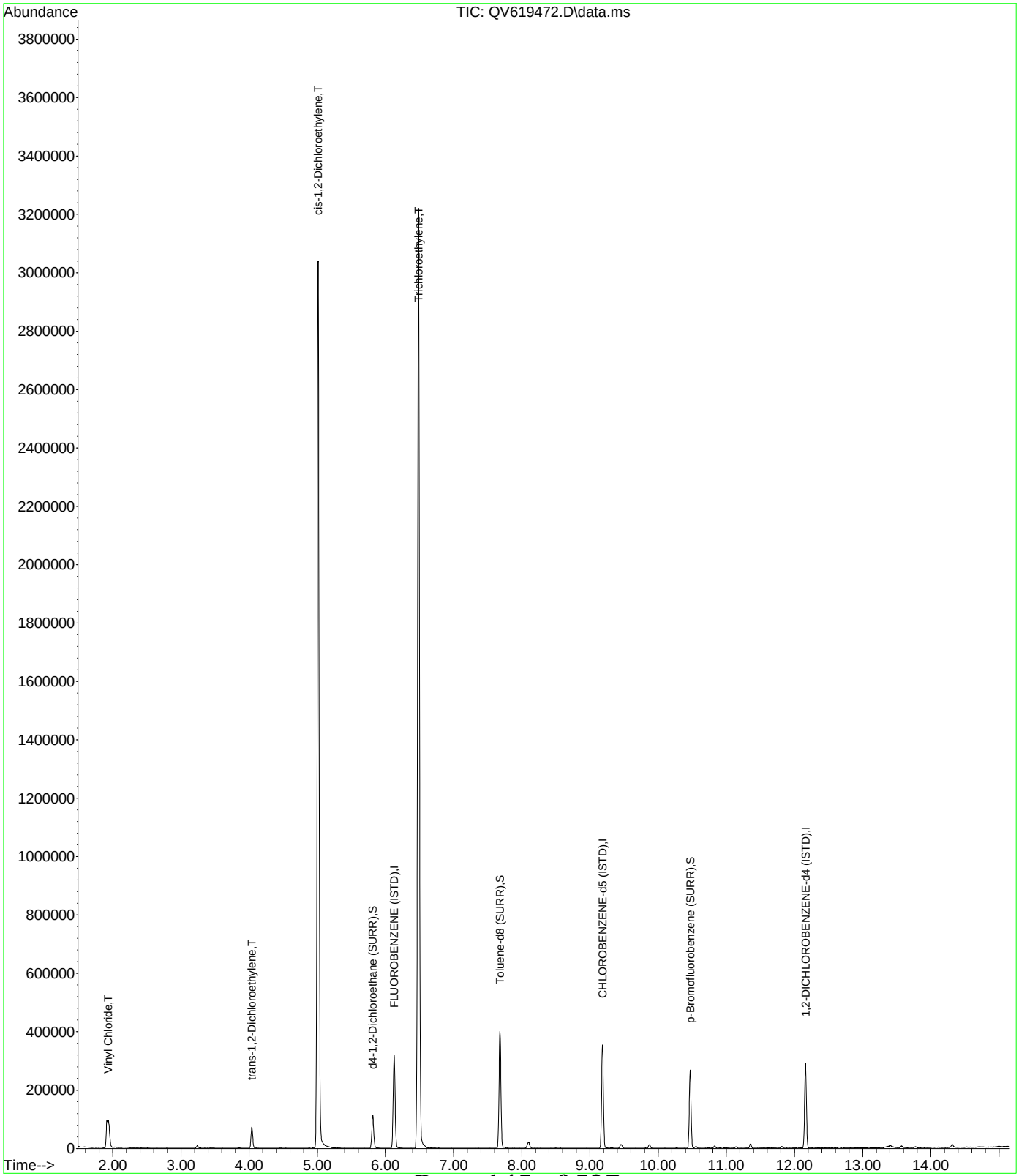
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.125	70	54315	10.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	9.183	117	197497	10.00	ppb	0.00
70) 1,2-DICHLOROBENZENE-d4...	12.163	152	83961	10.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.811	65	72694	9.70	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 97.00%			
53) Toluene-d8 (SURR)	7.678	98	269182	9.76	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 97.60%			
73) p-Bromofluorobenzene (...	10.471	95	89470	9.42	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 94.20%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.933	62	168250m	25.56	ppb	
20) trans-1,2-Dichloroethy...	4.039	61	38704	3.83	ppb	99
26) cis-1,2-Dichloroethylene	5.010	61	1701015	141.79	ppb	95
42) Trichloroethylene	6.484	95	944777	120.27	ppb	95

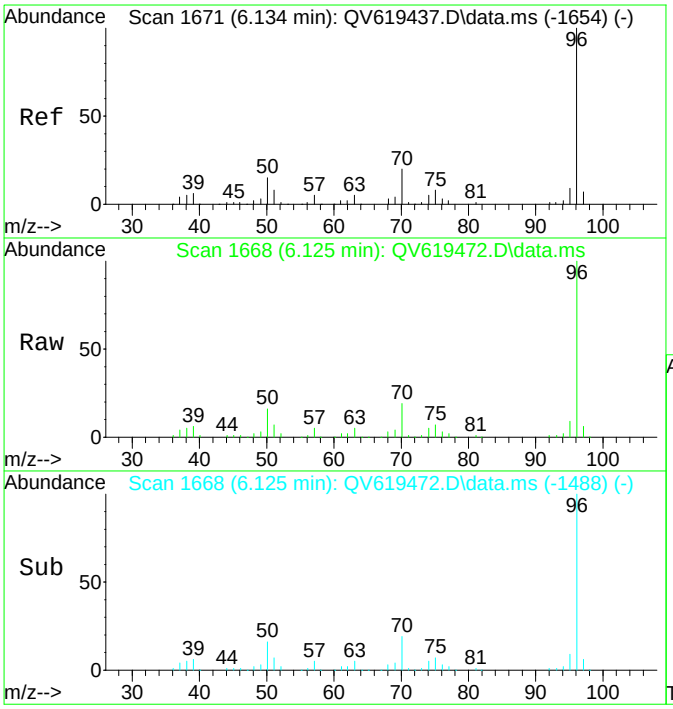
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060820A\
Data File : QV619472.D
Acq On : 8 Jun 2020 5:27 pm
InstName : QVOA6
Operator : TMP
Sample : 20F0067-01RE1
Misc : QBQV6060820A COMP C 250UL/50ML
ALS Vial : 12 Sample Multiplier: 200

Quant Time: Jun 09 15:32:39 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue May 19 10:50:37 2020
Response via : Initial Calibration

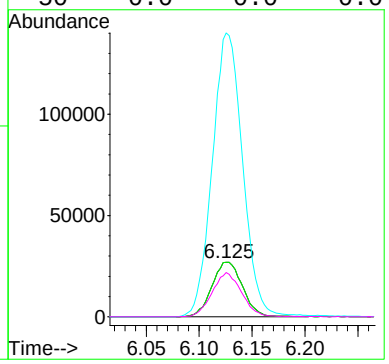


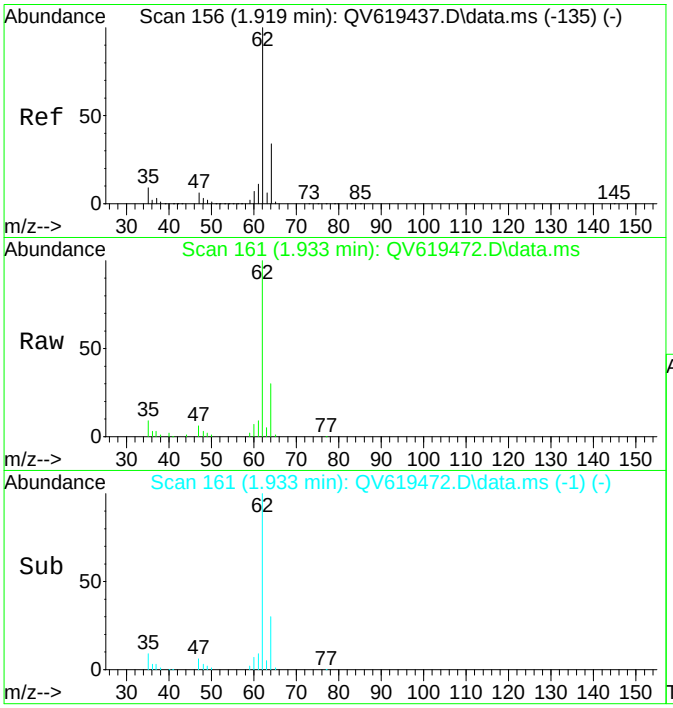


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 6.125 min Scan# 1668
Delta R.T. 0.000 min
Lab File: QV619472.D
Acq: 8 Jun 2020 5:27 pm

Tgt Ion: 70 Resp: 54315

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	513.9	341.1	708.3
50	0.0	0.0	0.0

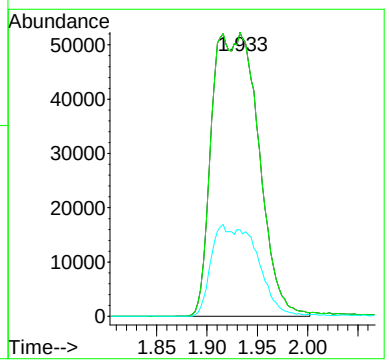


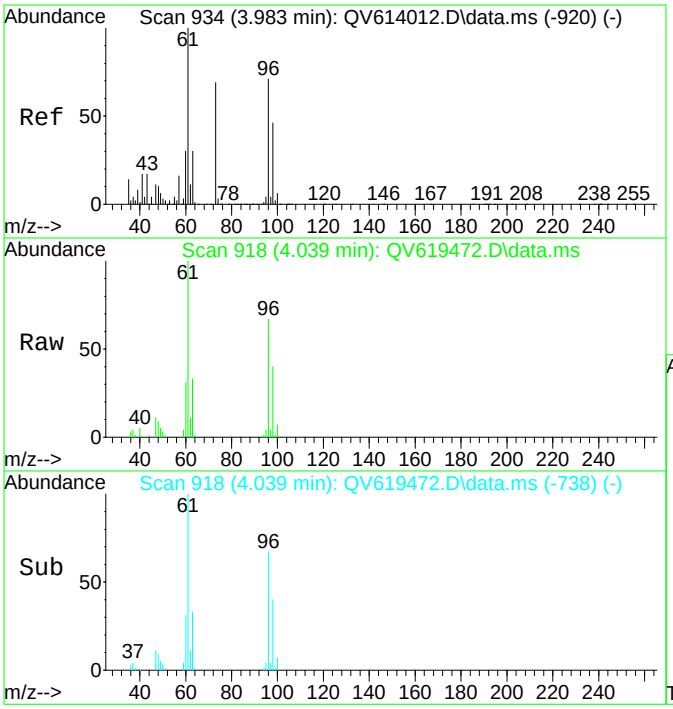


#4
Vinyl Chloride
Concen: 25.56 ppb m
RT: 1.933 min Scan# 161
Delta R.T. 0.023 min
Lab File: QV619472.D
Acq: 8 Jun 2020 5:27 pm

Tgt Ion: 62 Resp: 168250

Ion	Ratio	Lower	Upper
62	100		
62	44.1	36.0	74.8
64	15.5	12.5	25.9

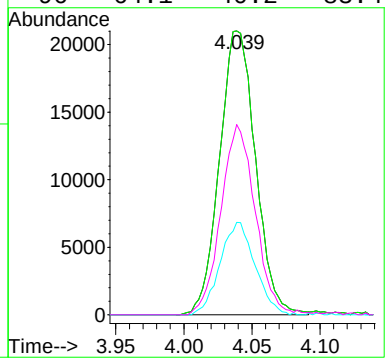


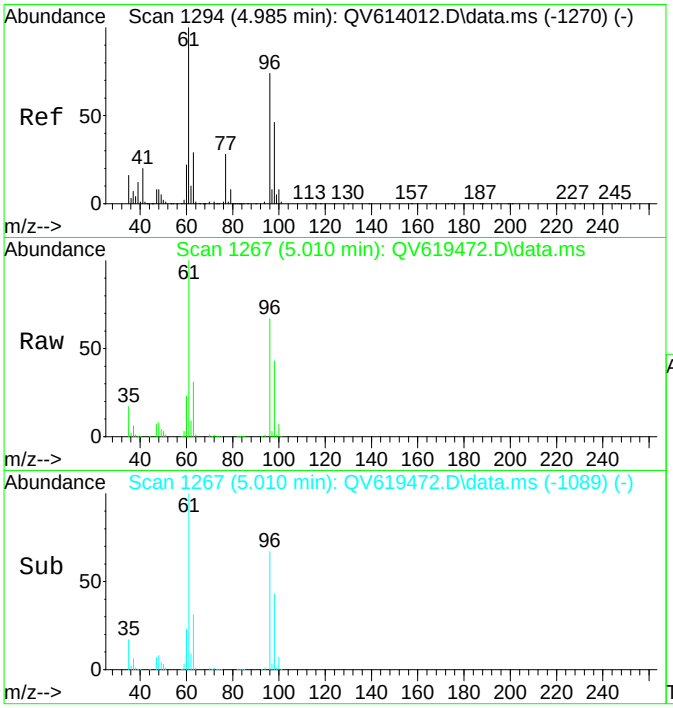


#20
trans-1,2-Dichloroethylene
Concen: 3.83 ppb
RT: 4.039 min Scan# 918
Delta R.T. -0.000 min
Lab File: QV619472.D
Acq: 8 Jun 2020 5:27 pm

Tgt Ion: 61 Resp: 38704

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	31.5	20.9	43.3
96	64.1	40.2	83.4

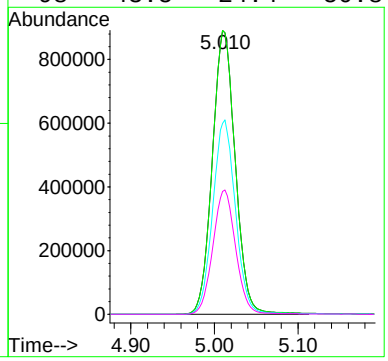


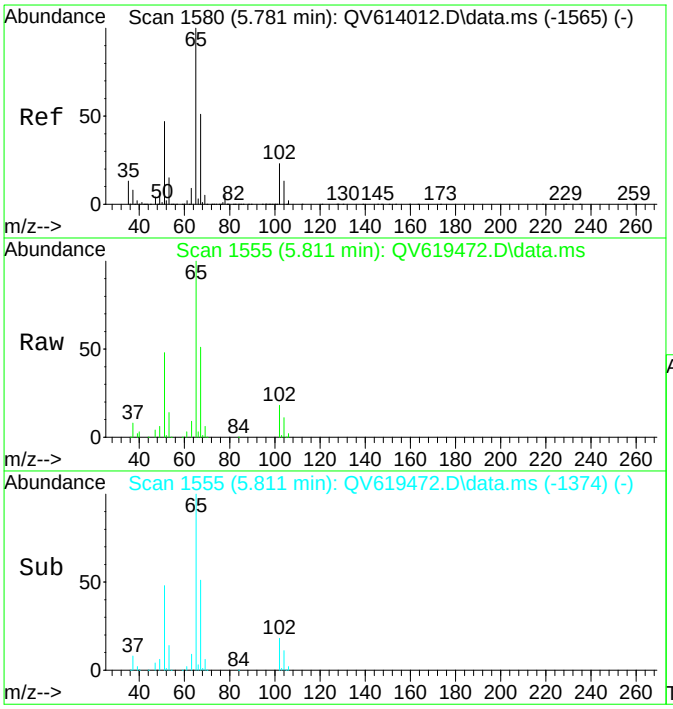


#26
cis-1,2-Dichloroethylene
Concen: 141.79 ppb
RT: 5.010 min Scan# 1267
Delta R.T. -0.005 min
Lab File: QV619472.D
Acq: 8 Jun 2020 5:27 pm

Tgt Ion: 61 Resp: 1701015

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	67.9	39.2	81.4
98	43.5	24.4	50.8

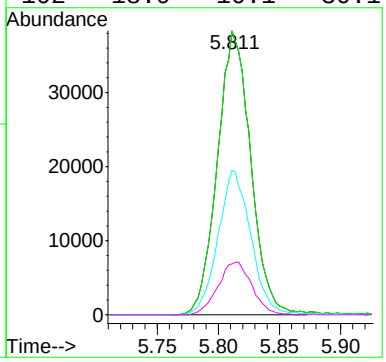


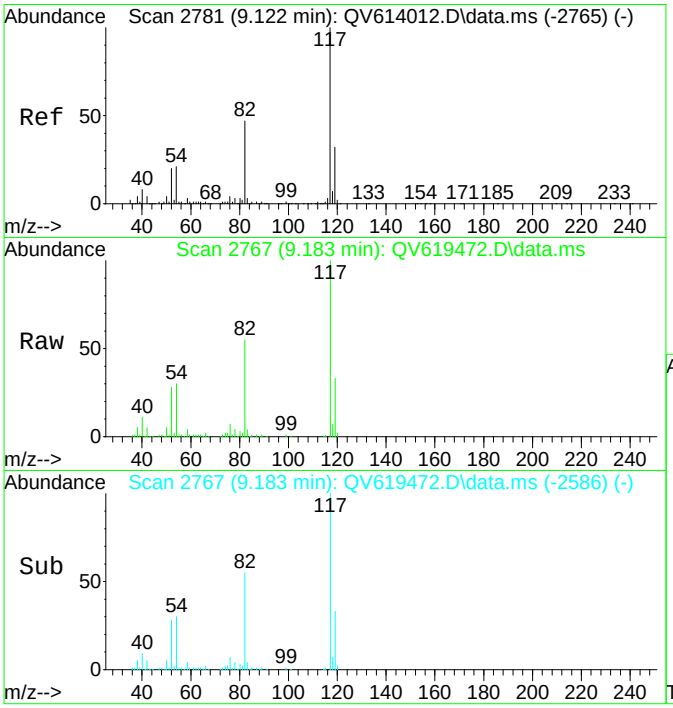


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.70 ppb
RT: 5.811 min Scan# 1555
Delta R.T. 0.003 min
Lab File: QV619472.D
Acq: 8 Jun 2020 5:27 pm

Tgt Ion: 65 Resp: 72694

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	50.0	34.0	70.6
102	18.9	10.1	30.1

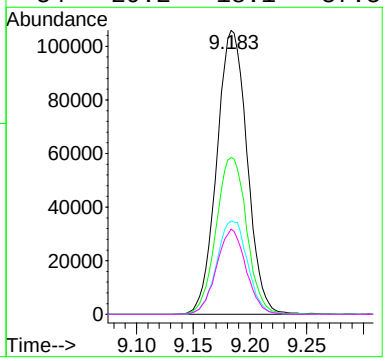


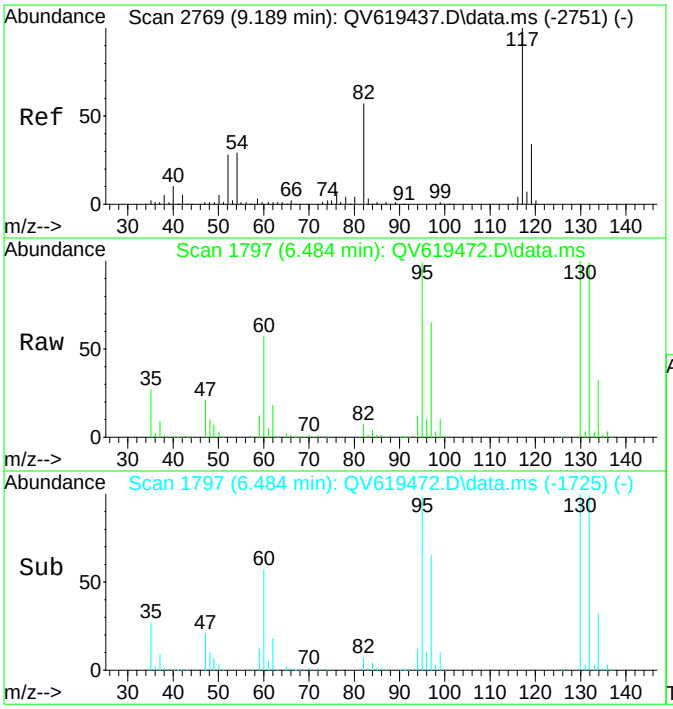


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 9.183 min Scan# 2767
Delta R.T. 0.003 min
Lab File: QV619472.D
Acq: 8 Jun 2020 5:27 pm

Tgt Ion:117 Resp: 197497

Ion	Ratio	Lower	Upper
117	100		
82	55.7	34.5	71.7
119	33.4	20.9	43.3
54	29.2	18.1	37.5

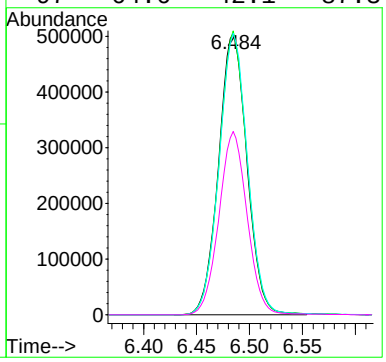


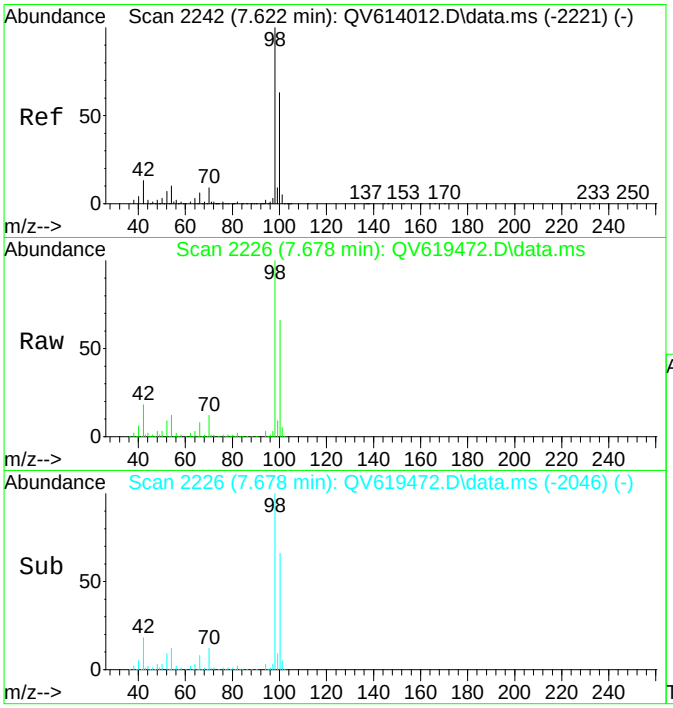


#42
Trichloroethylene
Concen: 120.27 ppb
RT: 6.484 min Scan# 1797
Delta R.T. 0.000 min
Lab File: QV619472.D
Acq: 8 Jun 2020 5:27 pm

Tgt Ion: 95 Resp: 944777

Ion	Ratio	Lower	Upper
95	100		
130	100.0	70.0	145.4
132	100.4	69.6	144.6
97	64.6	42.1	87.3

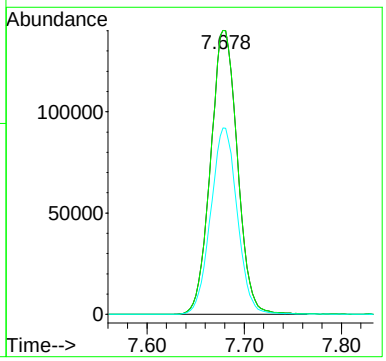


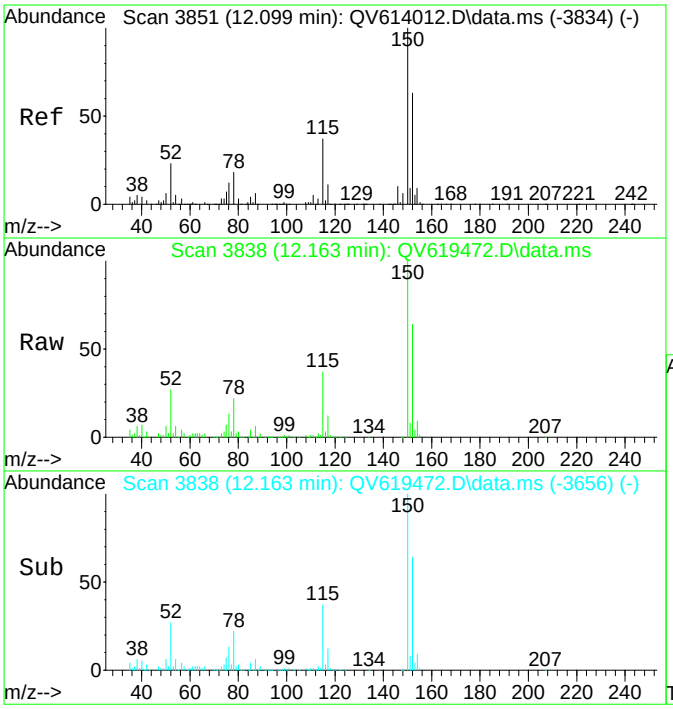


#53
Toluene-d8 (SURR)
Concen: 9.76 ppb
RT: 7.678 min Scan# 2226
Delta R.T. 0.000 min
Lab File: QV619472.D
Acq: 8 Jun 2020 5:27 pm

Tgt Ion: 98 Resp: 269182

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	65.0	44.2	91.8

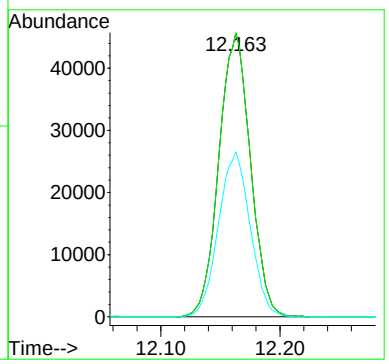


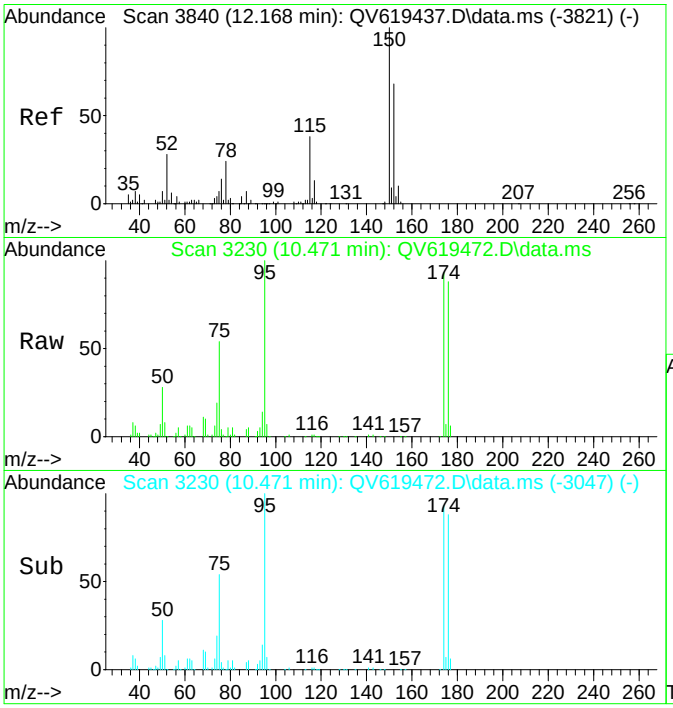


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 12.163 min Scan# 3838
Delta R.T. 0.006 min
Lab File: QV619472.D
Acq: 8 Jun 2020 5:27 pm

Tgt Ion:152 Resp: 83961

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	58.4	29.8	89.3

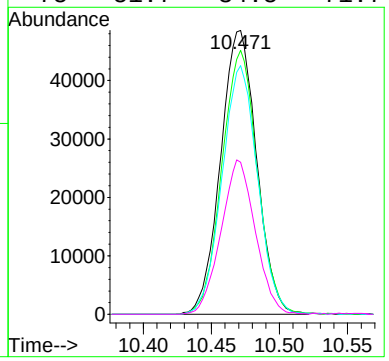




#73
p-Bromofluorobenzene (SURR)
Concen: 9.42 ppb
RT: 10.471 min Scan# 3230
Delta R.T. 0.008 min
Lab File: QV619472.D
Acq: 8 Jun 2020 5:27 pm

Tgt Ion: 95 Resp: 89470

Ion	Ratio	Lower	Upper
95	100		
174	91.4	62.5	129.9
176	86.5	60.7	126.1
75	51.7	34.5	71.7



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-02 0620

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	20F0067-02	File ID:	QV912170.D
Sampled:	06/01/20 11:20	Prepared:	06/05/20 06:57	Analyzed:	06/09/20 05:01
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF00478	Sequence:	Y0F0919	Calibration:	YF00003
Instrument:	QVOA9				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.9	
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-02 0620

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	20F0067-02	File ID:	QV912170.D
Sampled:	06/01/20 11:20	Prepared:	06/05/20 06:57	Analyzed:	06/09/20 05:01
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF00478	Sequence:	Y0F0919	Calibration:	YF00003
Instrument:	QVOA9				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.24	J
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	0.42	J
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.3	103	69 - 130	
SURR: Toluene-d8	10.0	9.89	98.9	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.82	98.2	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	145354	5.744	144711	5.74	
ISTD: Chlorobenzene-d5	590158	8.792	586505	8.789	
ISTD: 1,2-Dichlorobenzene-d4	230211	11.773	242025	11.779	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912170.D
Acq On : 9 Jun 2020 5:01 am
Operator : TMP
Sample : 20F0067-02
Misc : QBQV9060820B COMP C
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jun 09 12:59:58 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

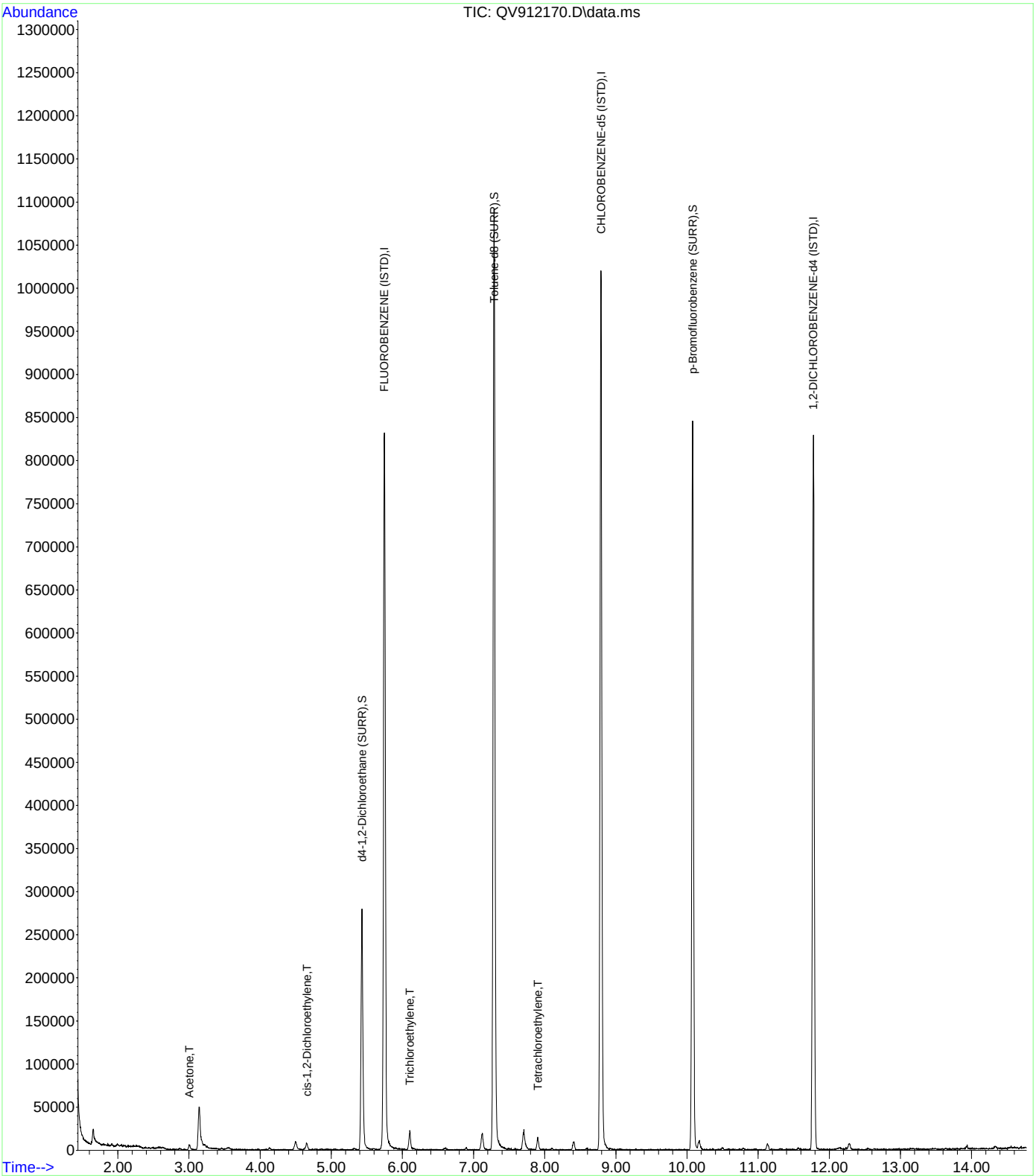
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.744	70	145354	10.00	ppb	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.792	117	590158	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.773	152	230211	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.433	65	203978	10.27	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 102.70%			
51) Toluene-d8 (SURR)	7.287	98	756305	9.89	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 98.90%			
70) p-Bromofluorobenzene (...	10.079	95	316051	9.82	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 98.20%			
Target Compounds						Qvalue
12) Acetone	3.003	43	5864	2.92	ppb	# 1
25) cis-1,2-Dichloroethylene	4.657	61	4092	0.17	ppb	# 87
41) Trichloroethylene	6.101	95	6815	0.42	ppb	# 72
56) Tetrachloroethylene	7.903	166	3668	0.24	ppb	# 100

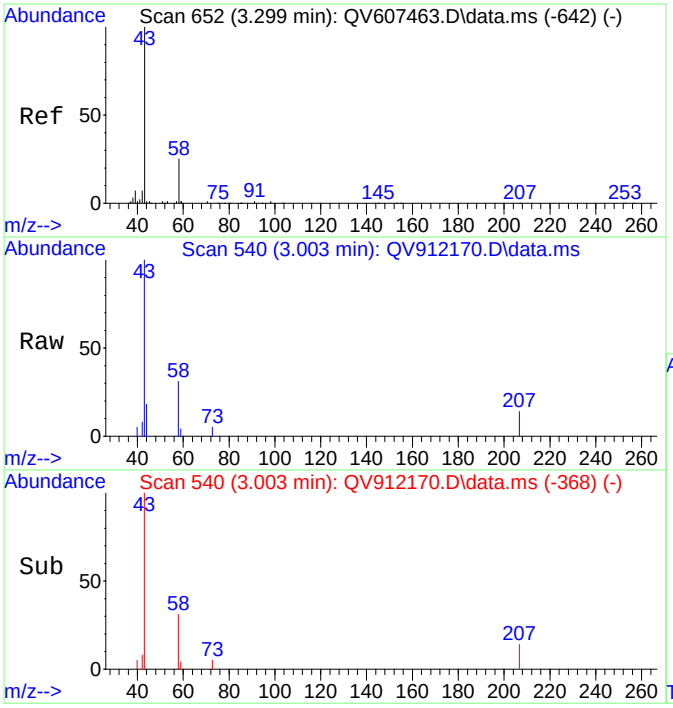
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912170.D
Acq On : 9 Jun 2020 5:01 am
Operator : TMP
Sample : 20F0067-02
Misc : QBQV9060820B COMP C
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jun 09 12:59:58 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

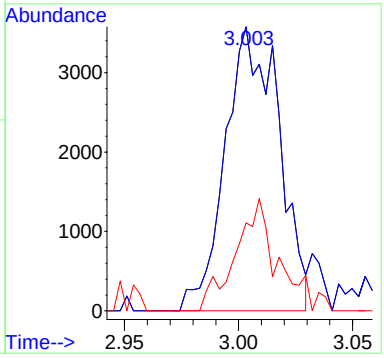


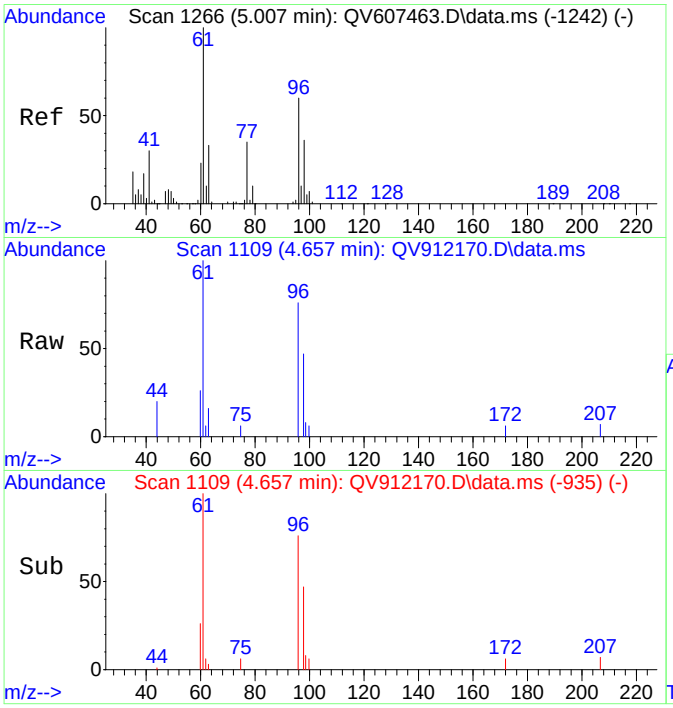


#12
Acetone
Concen: 2.92 ppb
RT: 3.003 min Scan# 540
Delta R.T. 0.000 min
Lab File: QV912170.D
Acq: 9 Jun 2020 5:01 am

Tgt Ion: 43 Resp: 5864

Ion	Ratio	Lower	Upper
43	100		
43	100.0	2.8	4.2#
58	31.3	0.4	1.1#

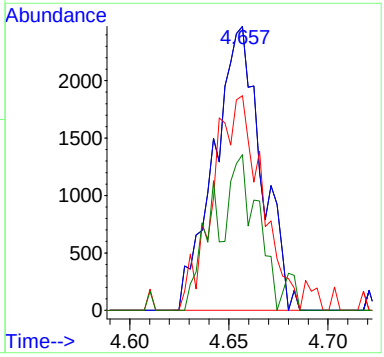


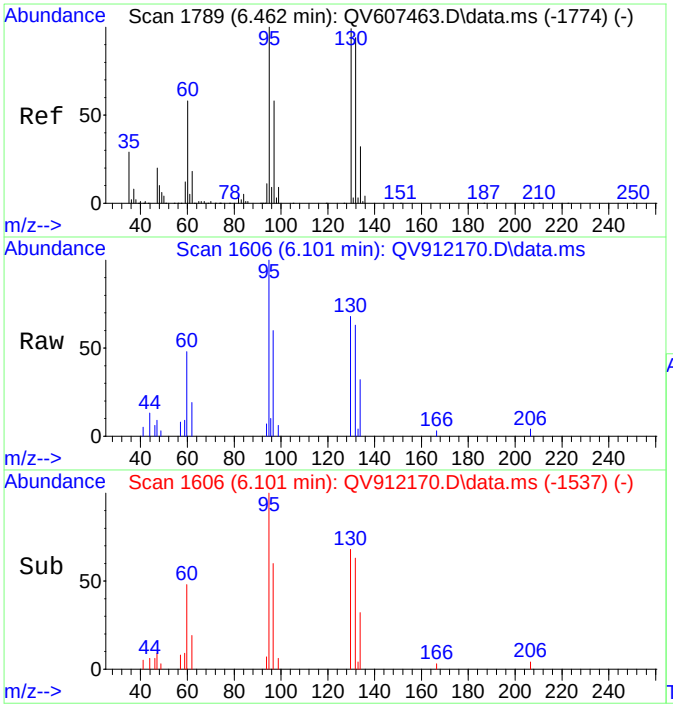


#25
cis-1,2-Dichloroethylene
Concen: 0.17 ppb
RT: 4.657 min Scan# 1109
Delta R.T. 0.006 min
Lab File: QV912170.D
Acq: 9 Jun 2020 5:01 am

Tgt Ion: 61 Resp: 4092

Ion	Ratio	Lower	Upper
61	100		
61	100.0	58.6	121.6
96	0.0	0.0	0.0
98	15.5	17.2	35.6#

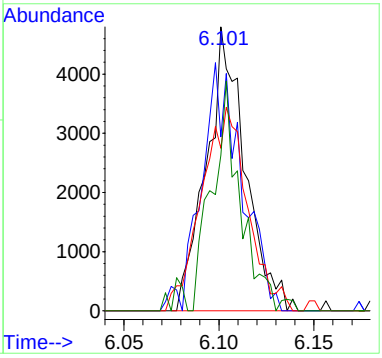


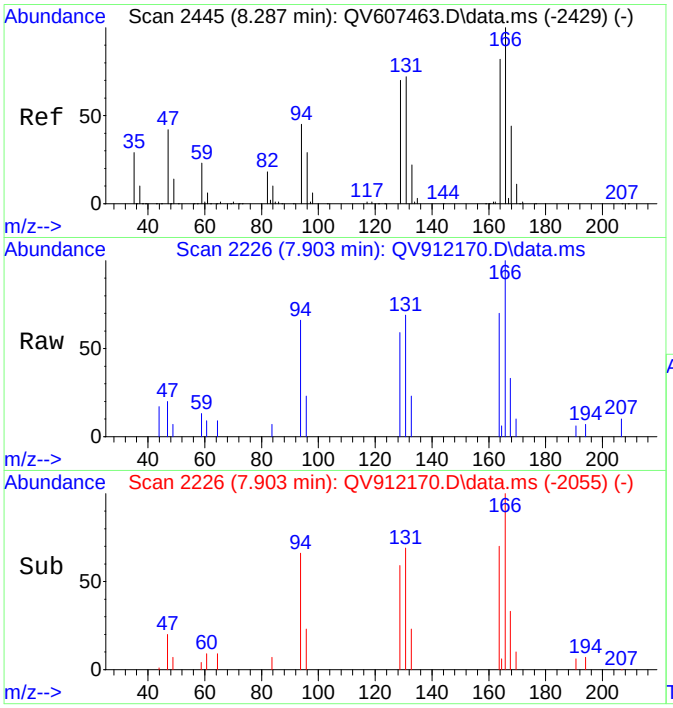


#41
Trichloroethylene
Concen: 0.42 ppb
RT: 6.101 min Scan# 1606
Delta R.T. 0.000 min
Lab File: QV912170.D
Acq: 9 Jun 2020 5:01 am

Tgt Ion: 95 Resp: 6815

Ion	Ratio	Lower	Upper
95	100		
130	90.7	76.1	158.1
132	84.7	74.4	154.4
97	59.6	22.2	46.2#

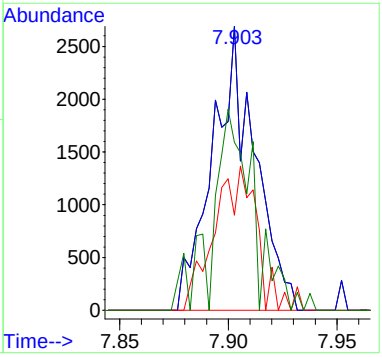




#56
Tetrachloroethylene
Concen: 0.24 ppb
RT: 7.903 min Scan# 2226
Delta R.T. -0.003 min
Lab File: QV912170.D
Acq: 9 Jun 2020 5:01 am

Tgt Ion:166 Resp: 3668

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	0.0	0.0	0.0
129	0.0	0.0	0.0



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-05 0620

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Matrix: Water Laboratory ID: 20F0067-03 File ID: QV912171.D

Sampled: 06/01/20 10:30 Prepared: 06/05/20 06:57 Analyzed: 06/09/20 05:30

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BF00478 Sequence: Y0F0919 Calibration: YF00003 Instrument: QVOA9

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.44	J
75-35-4	1,1-Dichloroethylene	1	0.31	J
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.21	J
156-59-2	cis-1,2-Dichloroethylene	1	19	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-05 0620

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Matrix: Water Laboratory ID: 20F0067-03 File ID: QV912171.D

Sampled: 06/01/20 10:30 Prepared: 06/05/20 06:57 Analyzed: 06/09/20 05:30

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BF00478 Sequence: Y0F0919 Calibration: YF00003 Instrument: QVOA9

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.28	J
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	37	
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.2	102	69 - 130	
SURR: Toluene-d8	10.0	9.65	96.5	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.76	97.6	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	145370	5.746	144711	5.74	
ISTD: Chlorobenzene-d5	598609	8.789	586505	8.789	
ISTD: 1,2-Dichlorobenzene-d4	234654	11.773	242025	11.779	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912171.D
Acq On : 9 Jun 2020 5:30 am
Operator : TMP
Sample : 20F0067-03
Misc : QBQV9060820B COMP C AF
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Jun 09 13:02:47 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

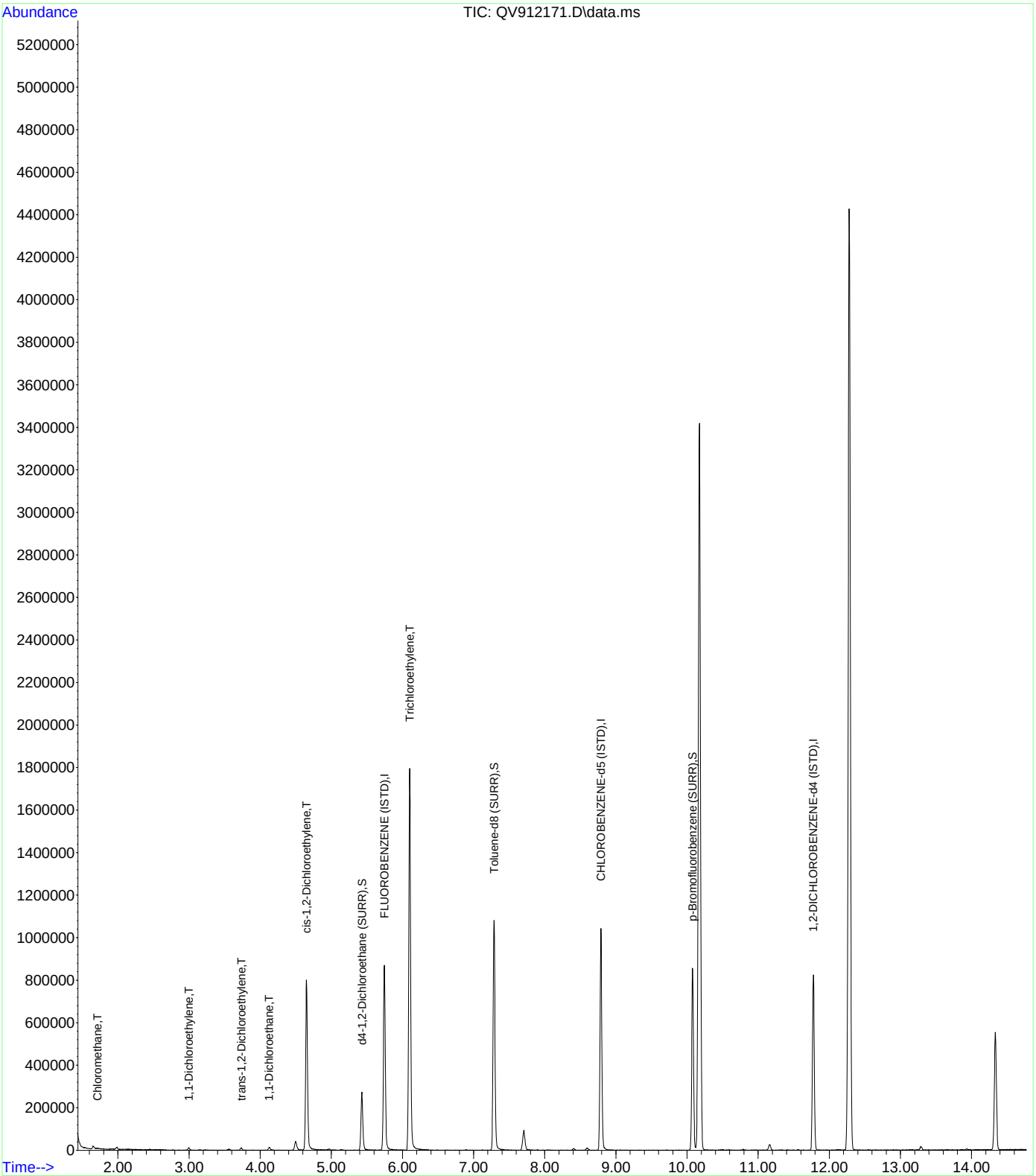
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.746	70	145370	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	8.789	117	598609	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.773	152	234654	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.430	65	202937	10.22	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 102.20%			
51) Toluene-d8 (SURR)	7.287	98	748165	9.65	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 96.50%			
70) p-Bromofluorobenzene (...	10.076	95	320007	9.76	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 97.60%			
Target Compounds						Qvalue
3) Chloromethane	1.713	50	1649	0.21	ppb	# 88
10) 1,1-Dichloroethylene	2.994	61	6038	0.31	ppb	# 71
19) trans-1,2-Dichloroethy...	3.735	61	5308	0.28	ppb	# 89
21) 1,1-Dichloroethane	4.122	63	11420m	0.44	ppb	
25) cis-1,2-Dichloroethylene	4.651	61	440042	18.62	ppb	# 82
41) Trichloroethylene	6.101	95	616714	37.40	ppb	# 72

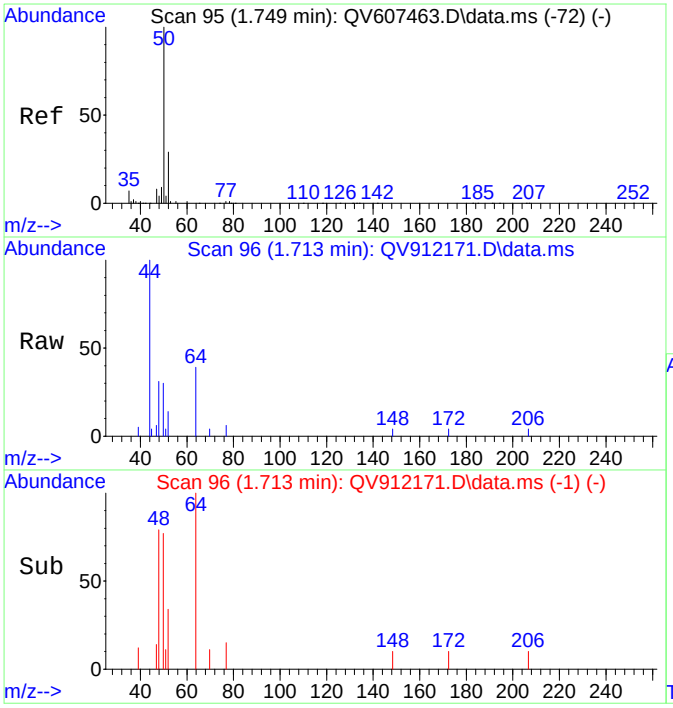
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912171.D
Acq On : 9 Jun 2020 5:30 am
Operator : TMP
Sample : 20F0067-03
Misc : QBQV9060820B COMP C AF
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Jun 09 13:02:47 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

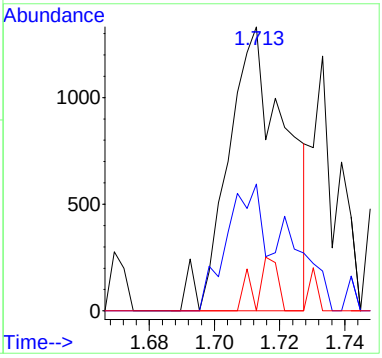


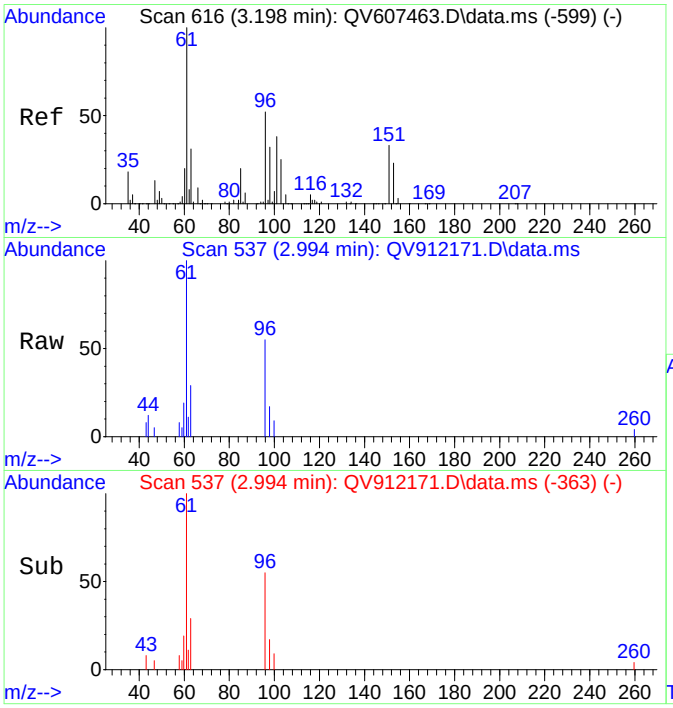


#3
Chloromethane
Concen: 0.21 ppb
RT: 1.713 min Scan# 96
Delta R.T. -0.000 min
Lab File: QV912171.D
Acq: 9 Jun 2020 5:30 am

Tgt Ion: 50 Resp: 1649

Ion	Ratio	Lower	Upper
50	100		
52	30.6	24.3	50.5
49	7.1	8.3	17.3#

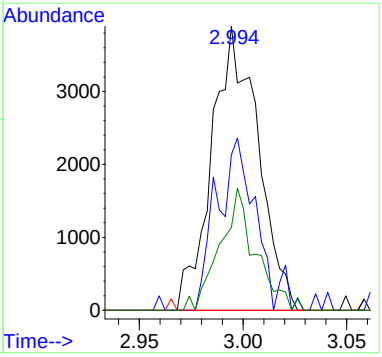


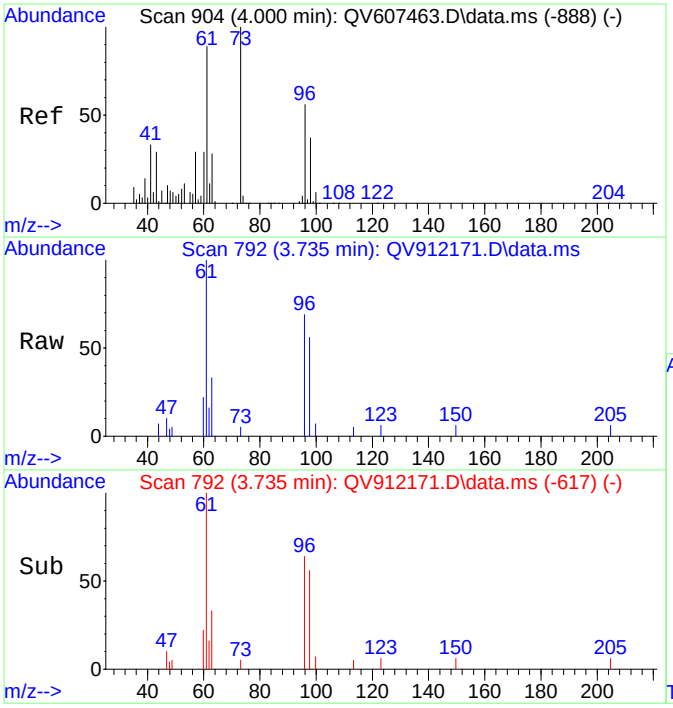


#10
1,1-Dichloroethylene
Concen: 0.31 ppb
RT: 2.994 min Scan# 537
Delta R.T. 0.005 min
Lab File: QV912171.D
Acq: 9 Jun 2020 5:30 am

Tgt Ion: 61 Resp: 6038

Ion	Ratio	Lower	Upper
61	100		
96	48.9	42.5	88.3
101	0.4	24.6	51.0#
63	33.1	20.2	41.9

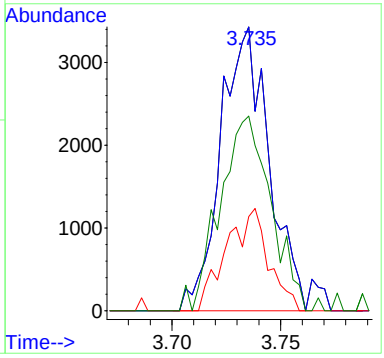


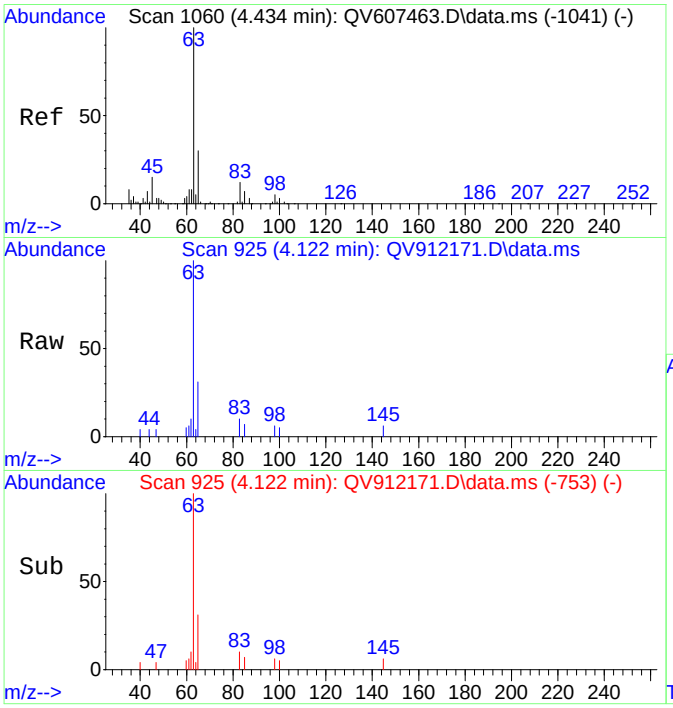


#19
trans-1,2-Dichloroethylene
Concen: 0.28 ppb
RT: 3.735 min Scan# 792
Delta R.T. 0.008 min
Lab File: QV912171.D
Acq: 9 Jun 2020 5:30 am

Tgt Ion: 61 Resp: 5308

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	0.0	0.0	0.0
96	0.0	17.4	36.0#

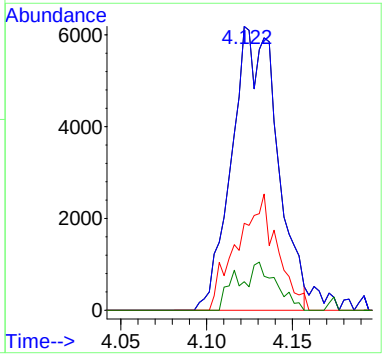


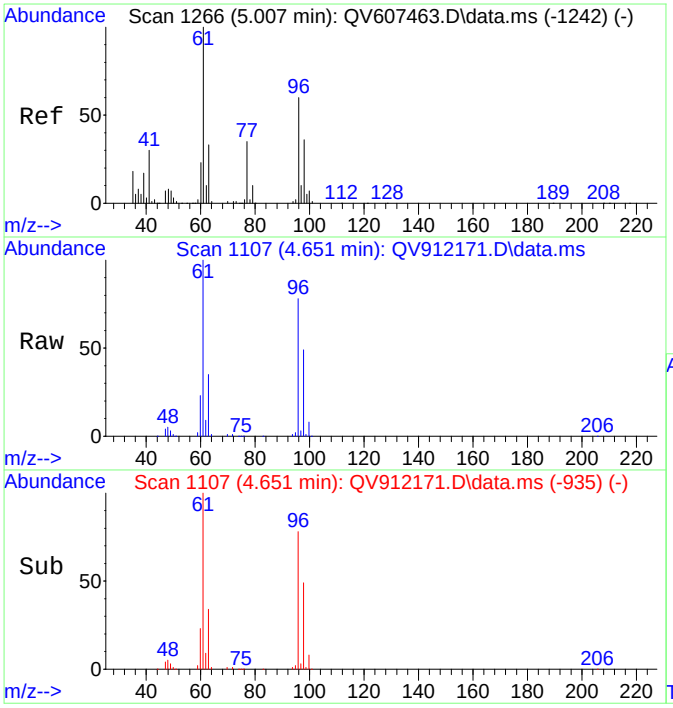


#21
1,1-Dichloroethane
Concen: 0.44 ppb m
RT: 4.122 min Scan# 925
Delta R.T. -0.000 min
Lab File: QV912171.D
Acq: 9 Jun 2020 5:30 am

Tgt Ion: 63 Resp: 11420

Ion	Ratio	Lower	Upper
63	100		
63	52.0	65.0	135.0#
65	35.9	0.0	0.0#
83	8.7	2.6	8.0#

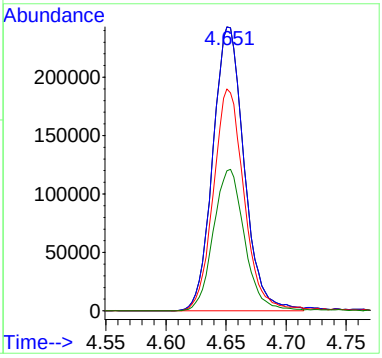


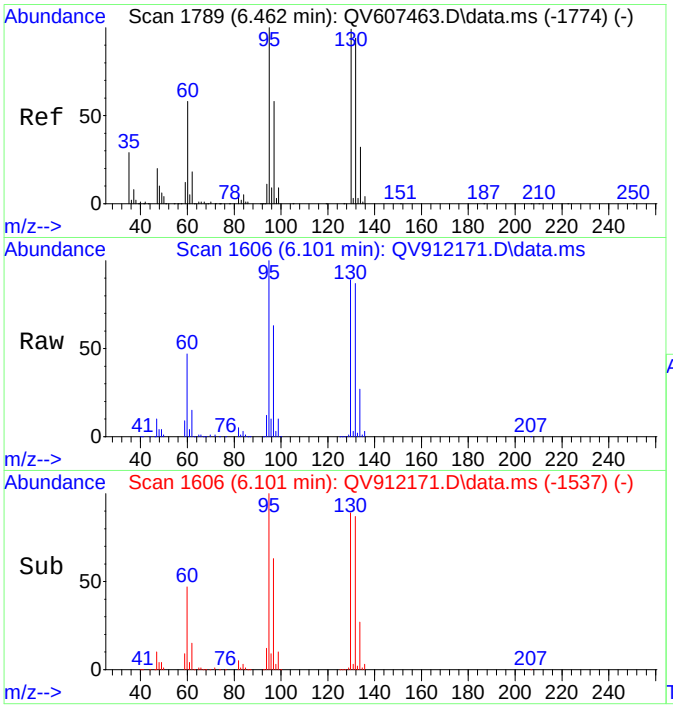


#25
cis-1,2-Dichloroethylene
Concen: 18.62 ppb
RT: 4.651 min Scan# 1107
Delta R.T. -0.000 min
Lab File: QV912171.D
Acq: 9 Jun 2020 5:30 am

Tgt Ion: 61 Resp: 440042

Ion	Ratio	Lower	Upper
61	100		
61	100.0	58.6	121.6
96	77.1	0.0	0.0#
98	49.7	17.2	35.6#

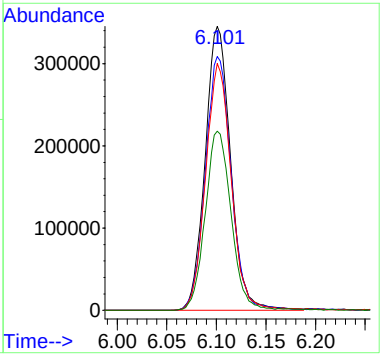




#41
Trichloroethylene
Concen: 37.40 ppb
RT: 6.101 min Scan# 1606
Delta R.T. -0.000 min
Lab File: QV912171.D
Acq: 9 Jun 2020 5:30 am

Tgt Ion: 95 Resp: 616714

Ion	Ratio	Lower	Upper
95	100		
130	91.1	76.1	158.1
132	87.1	74.4	154.4
97	63.9	22.2	46.2#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-07 0620

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Matrix: Water Laboratory ID: 20F0067-04 File ID: QV912184.D

Sampled: 06/01/20 14:41 Prepared: 06/08/20 06:13 Analyzed: 06/09/20 11:45

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BF00478 Sequence: Y0F0919 Calibration: YF00003 Instrument: QVOA9

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	1.2	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	3.6	
75-35-4	1,1-Dichloroethylene	1	0.22	J
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.20	J
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.76	
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	3.0	
156-59-2	cis-1,2-Dichloroethylene	1	11	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-07 0620

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	20F0067-04	File ID:	QV912184.D
Sampled:	06/01/20 14:41	Prepared:	06/08/20 06:13	Analyzed:	06/09/20 11:45
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF00478	Sequence:	Y0F0919	Calibration:	YF00003
Instrument:	QVOA9				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.47	J
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	38	
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	1.7	
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	8.77	87.7	69 - 130	
SURR: Toluene-d8	10.0	10.0	100	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.2	102	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	191288	5.743	144711	5.74	
ISTD: Chlorobenzene-d5	758686	8.789	586505	8.789	
ISTD: 1,2-Dichlorobenzene-d4	274434	11.782	242025	11.779	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912184.D
Acq On : 9 Jun 2020 11:45 am
Operator : TMP
Sample : 20F0067-04
Misc : QBQV9060820B 8260 C
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Jun 09 13:39:34 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

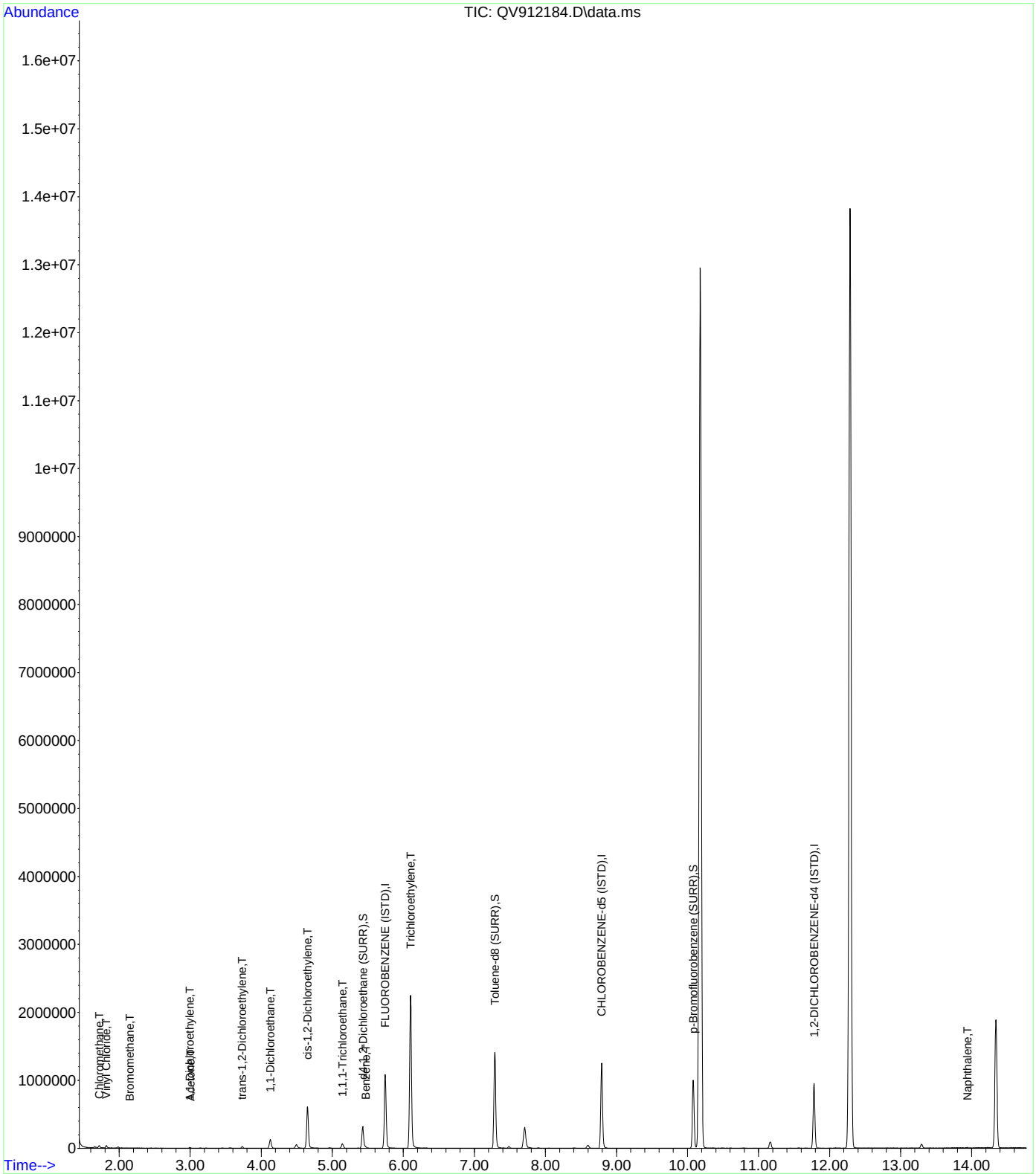
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.743	70	191288	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.789	117	758686	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.782	152	274434	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.430	65	229257	8.77	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 87.70%				
51) Toluene-d8 (SURR)	7.287	98	986378	10.04	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 100.40%				
70) p-Bromofluorobenzene (...	10.079	95	391259	10.20	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 102.00%				
Target Compounds							Qvalue
3) Chloromethane	1.719	50	31269	3.01	ppb		95
4) Vinyl Chloride	1.818	62	25422	1.74	ppb	#	98
5) Bromomethane	2.149	94	1248m	0.76	ppb		
10) 1,1-Dichloroethylene	2.992	61	5723	0.22	ppb	#	57
12) Acetone	3.006	43	1901m	0.72	ppb		
19) trans-1,2-Dichloroethy...	3.730	61	11497	0.47	ppb	#	89
21) 1,1-Dichloroethane	4.128	63	122480	3.59	ppb	#	99
25) cis-1,2-Dichloroethylene	4.651	61	344666	11.08	ppb	#	80
31) 1,1,1-Trichloroethane	5.142	97	46289	1.20	ppb	#	55
38) Benzene	5.467	78	14733	0.20	ppb	#	100
41) Trichloroethylene	6.101	95	800735	38.32	ppb	#	73
93) Naphthalene	13.938	128	5483	0.16	ppb	#	84

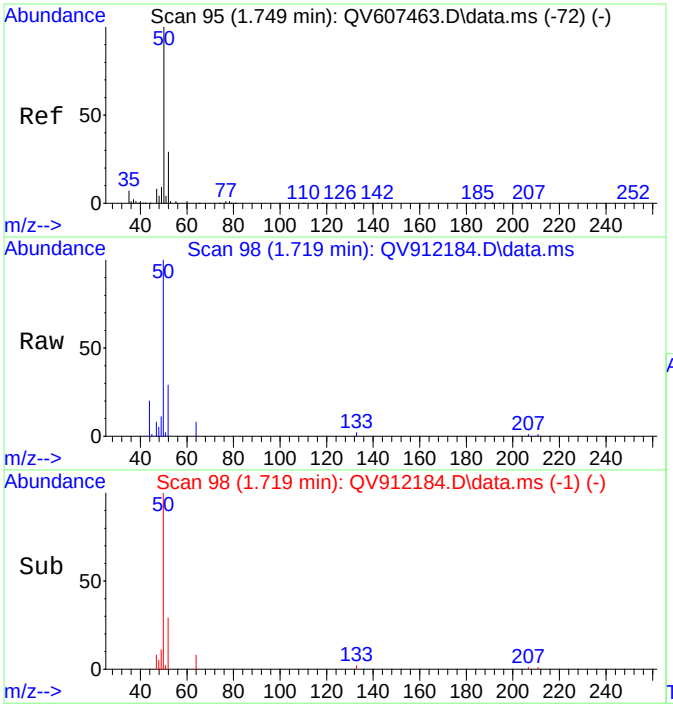
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912184.D
Acq On : 9 Jun 2020 11:45 am
Operator : TMP
Sample : 20F0067-04
Misc : QBQV9060820B 8260 C
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Jun 09 13:39:34 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

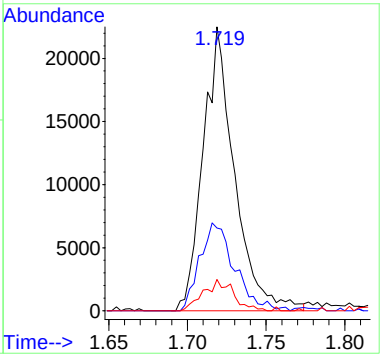


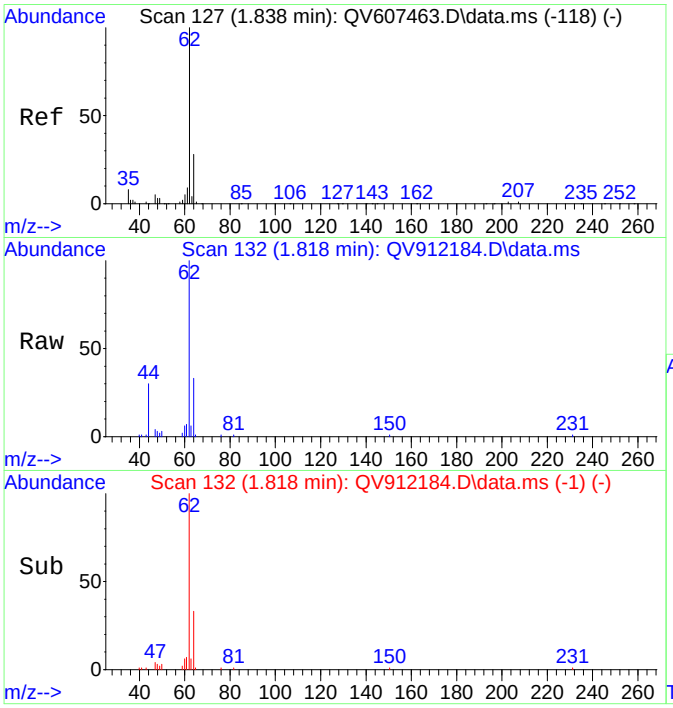


#3
Chloromethane
Concen: 3.01 ppb
RT: 1.719 min Scan# 98
Delta R.T. 0.006 min
Lab File: QV912184.D
Acq: 9 Jun 2020 11:45 am

Tgt Ion: 50 Resp: 31269

Ion	Ratio	Lower	Upper
50	100		
52	34.3	24.3	50.5
49	10.5	8.3	17.3

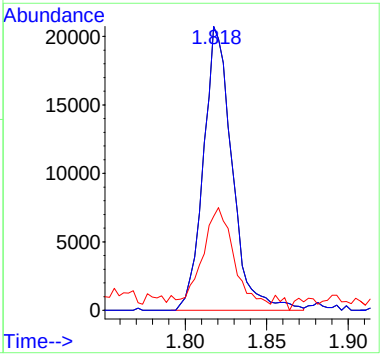


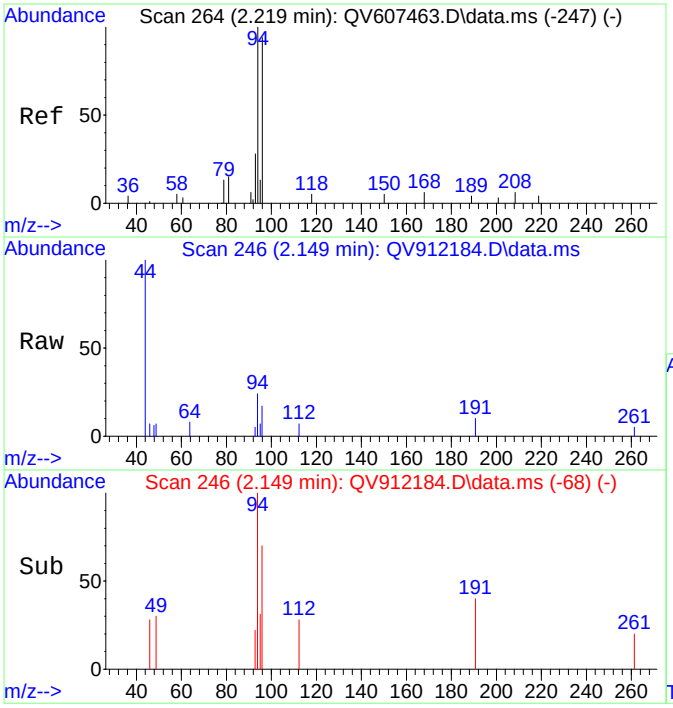


#4
Vinyl Chloride
Concen: 1.74 ppb
RT: 1.818 min Scan# 132
Delta R.T. 0.006 min
Lab File: QV912184.D
Acq: 9 Jun 2020 11:45 am

Tgt Ion: 62 Resp: 25422

Ion	Ratio	Lower	Upper
62	100		
62	100.0	65.0	135.0
64	35.5	1.3	2.7#

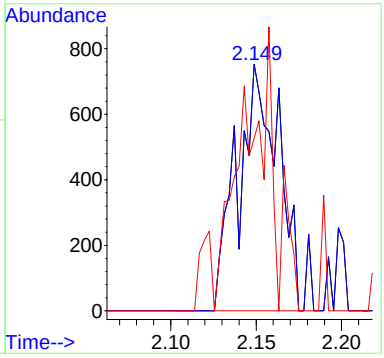


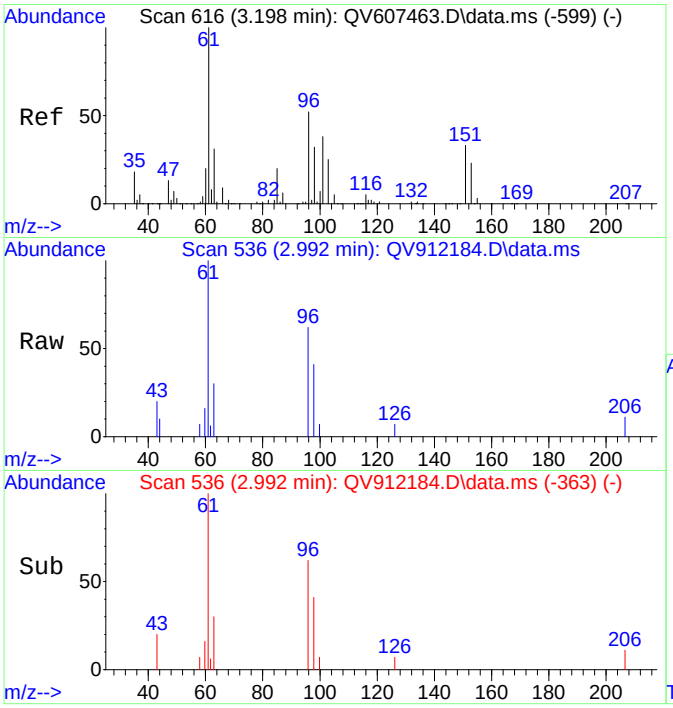


#5
Bromomethane
Concen: 0.76 ppb m
RT: 2.149 min Scan# 246
Delta R.T. 0.018 min
Lab File: QV912184.D
Acq: 9 Jun 2020 11:45 am

Tgt Ion: 94 Resp: 1248

Ion	Ratio	Lower	Upper
94	100		
94	78.2	50.0	150.0
96	47.0	45.3	135.9

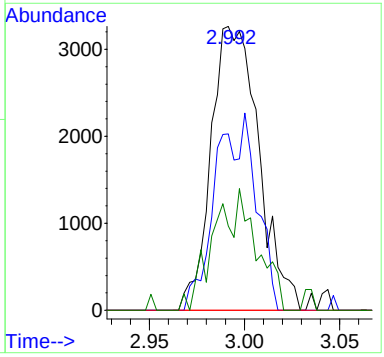


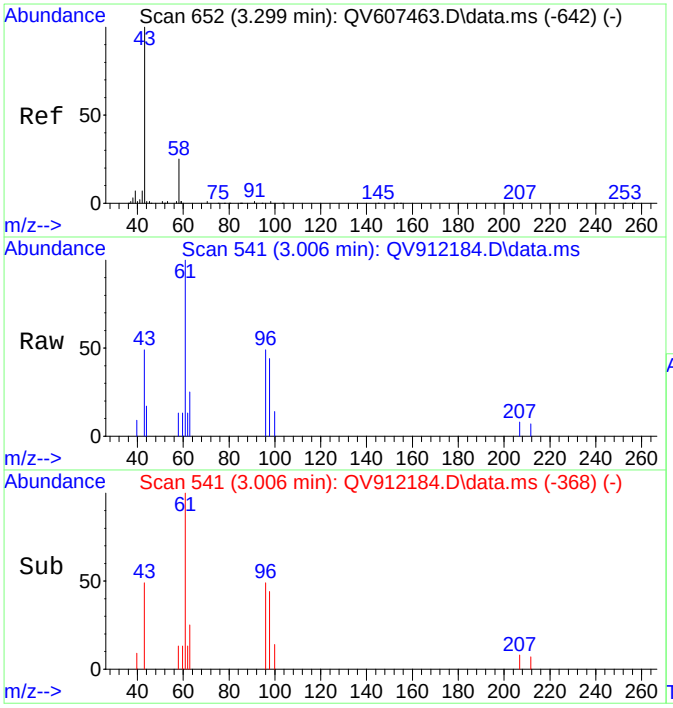


#10
1,1-Dichloroethylene
Concen: 0.22 ppb
RT: 2.992 min Scan# 536
Delta R.T. 0.003 min
Lab File: QV912184.D
Acq: 9 Jun 2020 11:45 am

Tgt Ion: 61 Resp: 5723

Ion	Ratio	Lower	Upper
61	100		
96	31.5	42.5	88.3#
101	0.0	24.6	51.0#
63	19.7	20.2	41.9#

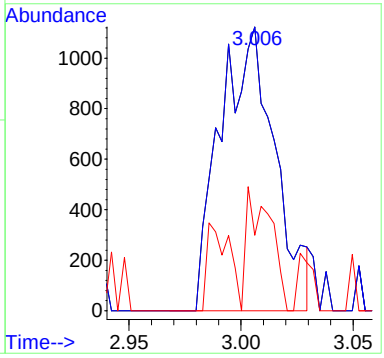


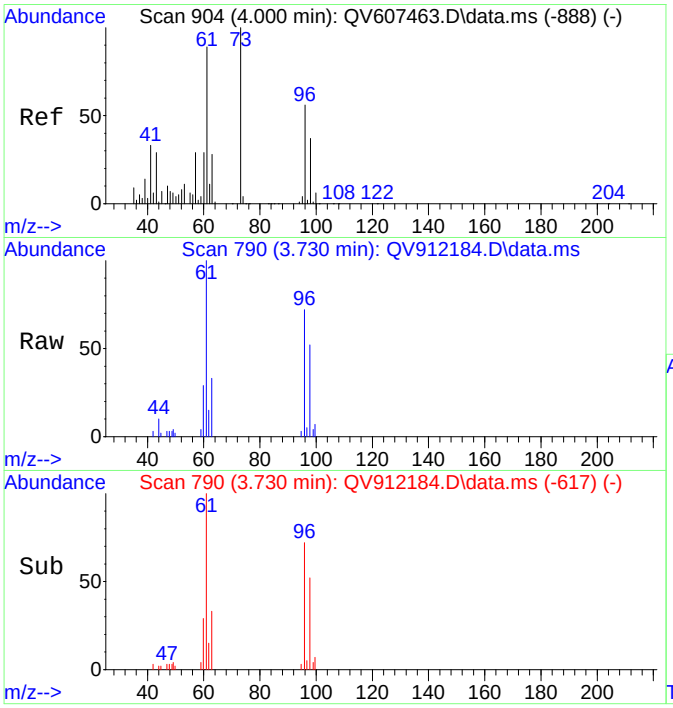


#12
Acetone
Concen: 0.72 ppb m
RT: 3.006 min Scan# 541
Delta R.T. 0.003 min
Lab File: QV912184.D
Acq: 9 Jun 2020 11:45 am

Tgt Ion: 43 Resp: 1901

Ion	Ratio	Lower	Upper
43	100		
43	38.6	2.8	4.2#
58	19.1	0.4	1.1#

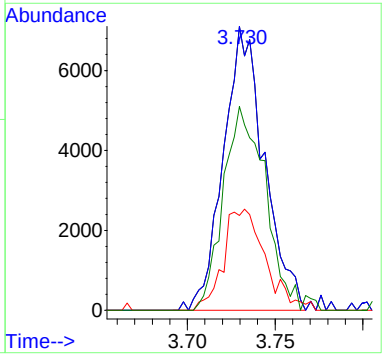


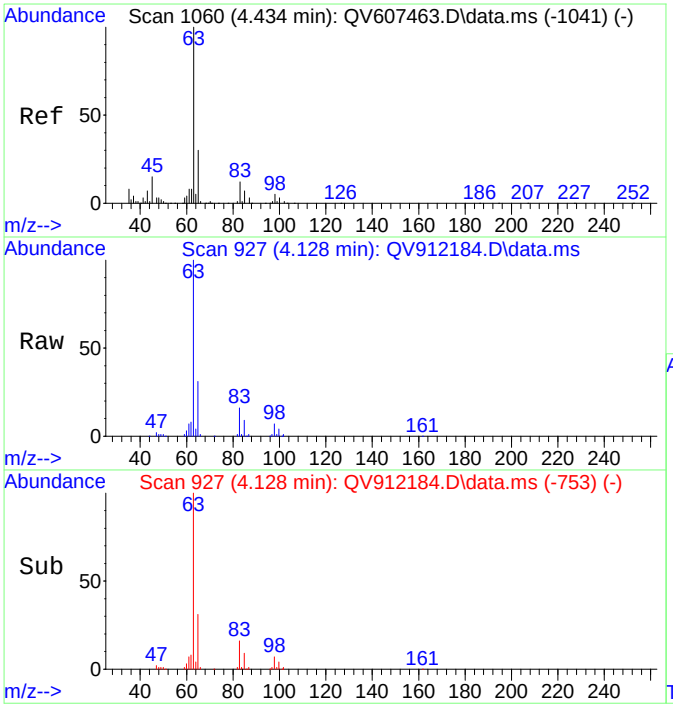


#19
trans-1,2-Dichloroethylene
Concen: 0.47 ppb
RT: 3.730 min Scan# 790
Delta R.T. 0.003 min
Lab File: QV912184.D
Acq: 9 Jun 2020 11:45 am

Tgt Ion: 61 Resp: 11497

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	0.0	0.0	0.0
96	0.0	17.4	36.0#

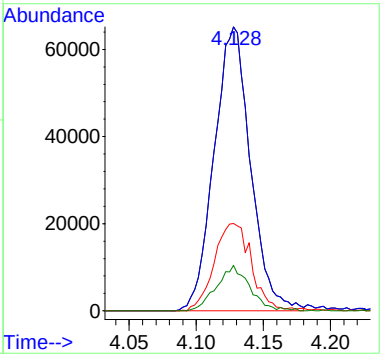


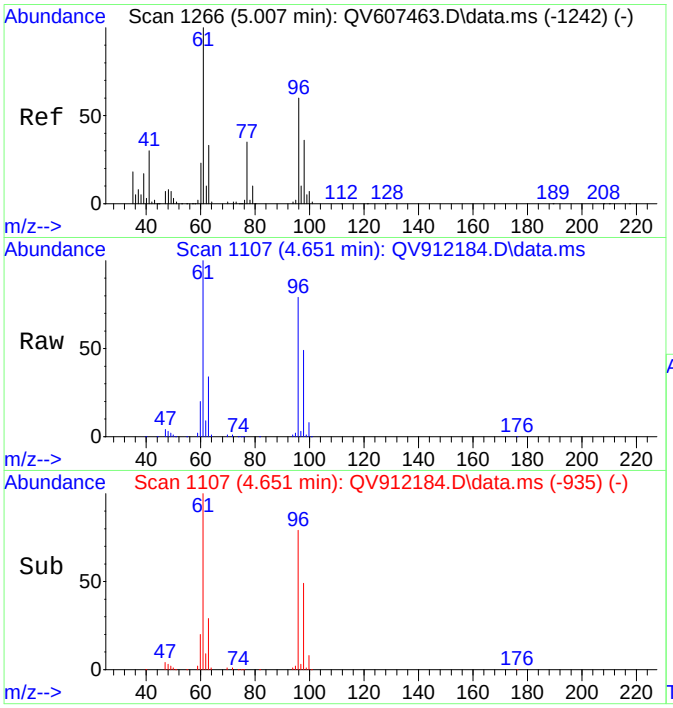


#21
1,1-Dichloroethane
Concen: 3.59 ppb
RT: 4.128 min Scan# 927
Delta R.T. 0.006 min
Lab File: QV912184.D
Acq: 9 Jun 2020 11:45 am

Tgt Ion: 63 Resp: 122480

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	31.7	0.0	0.0#
83	14.2	2.6	8.0#

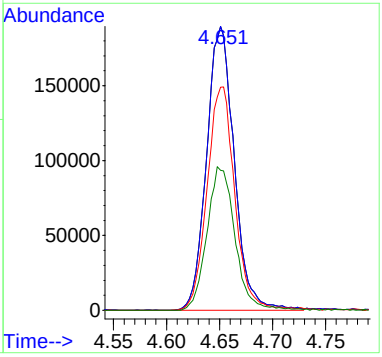


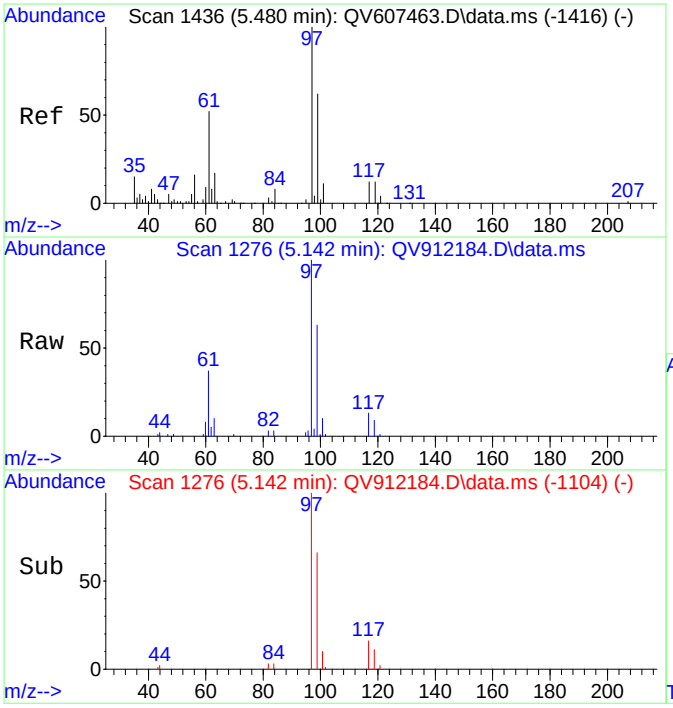


#25
cis-1,2-Dichloroethylene
Concen: 11.08 ppb
RT: 4.651 min Scan# 1107
Delta R.T. -0.000 min
Lab File: QV912184.D
Acq: 9 Jun 2020 11:45 am

Tgt Ion: 61 Resp: 344666

Ion	Ratio	Lower	Upper
61	100		
61	100.0	58.6	121.6
96	78.9	0.0	0.0#
98	0.0	17.2	35.6#

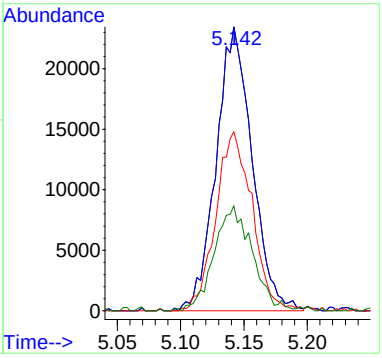


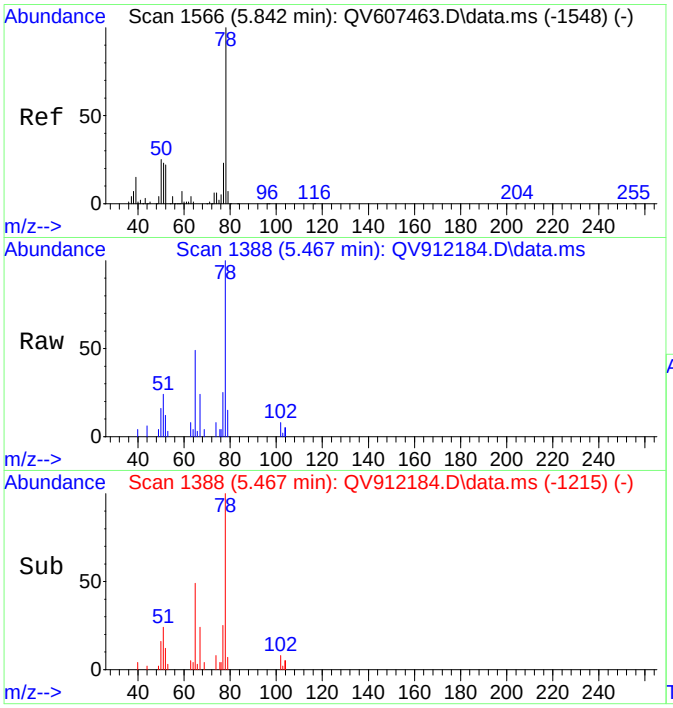


#31
1,1,1-Trichloroethane
Concen: 1.20 ppb
RT: 5.142 min Scan# 1276
Delta R.T. -0.000 min
Lab File: QV912184.D
Acq: 9 Jun 2020 11:45 am

Tgt Ion: 97 Resp: 46289

Ion	Ratio	Lower	Upper
97	100		
97	100.0	32.0	66.6#
99	63.7	39.3	81.5
61	0.0	28.0	58.2#

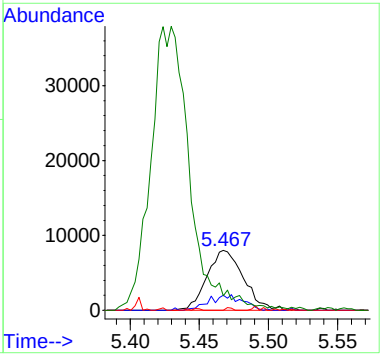


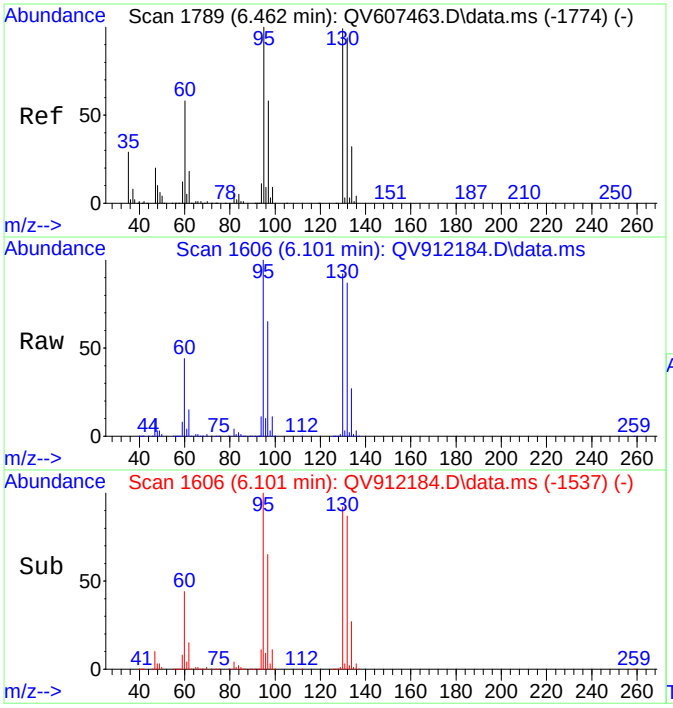


#38
Benzene
Concen: 0.20 ppb
RT: 5.467 min Scan# 1388
Delta R.T. 0.002 min
Lab File: QV912184.D
Acq: 9 Jun 2020 11:45 am

Tgt Ion: 78 Resp: 14733

Ion	Ratio	Lower	Upper
78	100		
77	23.8	15.5	32.1
62	3.3	0.8	1.6#
51	502.3	0.0	0.0#

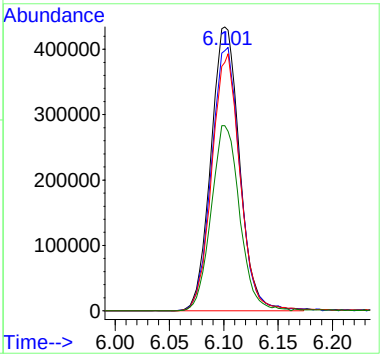


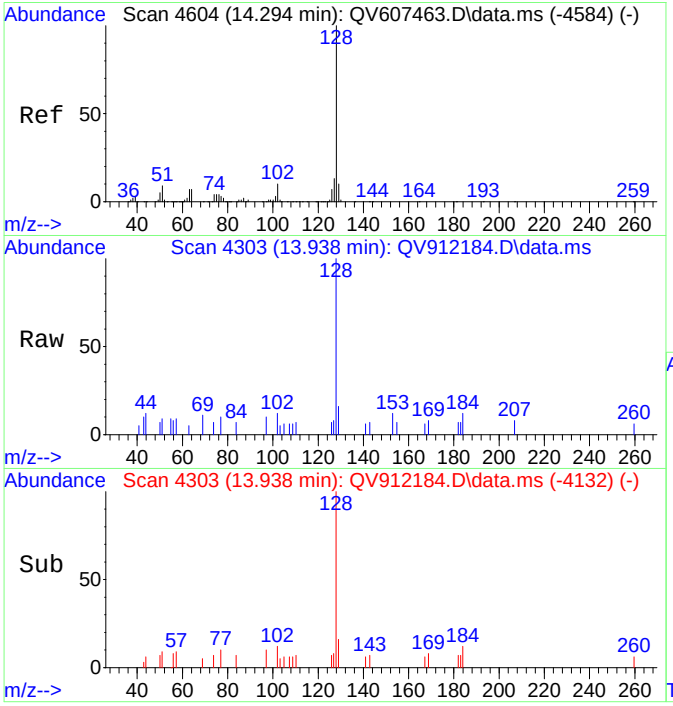


#41
Trichloroethylene
Concen: 38.32 ppb
RT: 6.101 min Scan# 1606
Delta R.T. -0.000 min
Lab File: QV912184.D
Acq: 9 Jun 2020 11:45 am

Tgt Ion: 95 Resp: 800735

Ion	Ratio	Lower	Upper
95	100		
130	92.2	76.1	158.1
132	88.8	74.4	154.4
97	64.6	22.2	46.2#

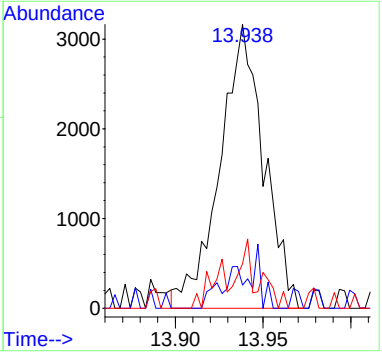




#93
Naphthalene
Concen: 0.16 ppb
RT: 13.938 min Scan# 4303
Delta R.T. -0.003 min
Lab File: QV912184.D
Acq: 9 Jun 2020 11:45 am

Tgt Ion:128 Resp: 5483

Ion	Ratio	Lower	Upper
128	100		
127	4.5	9.0	18.6#
129	6.3	3.9	8.1



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

TRIP BLANK 0620

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	20F0067-05	File ID:	QV912181.D
Sampled:	06/01/20 00:00	Prepared:	06/08/20 06:13	Analyzed:	06/09/20 10:23
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF00478	Sequence:	Y0F0919	Calibration:	YF00003
Instrument:	QVOA9				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

TRIP BLANK 0620

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	20F0067-05	File ID:	QV912181.D
Sampled:	06/01/20 00:00	Prepared:	06/08/20 06:13	Analyzed:	06/09/20 10:23
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF00478	Sequence:	Y0F0919	Calibration:	YF00003
Instrument:	QVOA9				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	8.84	88.4	69 - 130	
SURR: Toluene-d8	10.0	10.1	101	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.5	115	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	183621	5.743	144711	5.74	
ISTD: Chlorobenzene-d5	739241	8.789	586505	8.789	
ISTD: 1,2-Dichlorobenzene-d4	232752	11.782	242025	11.779	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912181.D
Acq On : 9 Jun 2020 10:23 am
Operator : TMP
Sample : 20F0067-05
Misc : QBQV9060820B 8260 B
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Jun 09 13:30:03 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

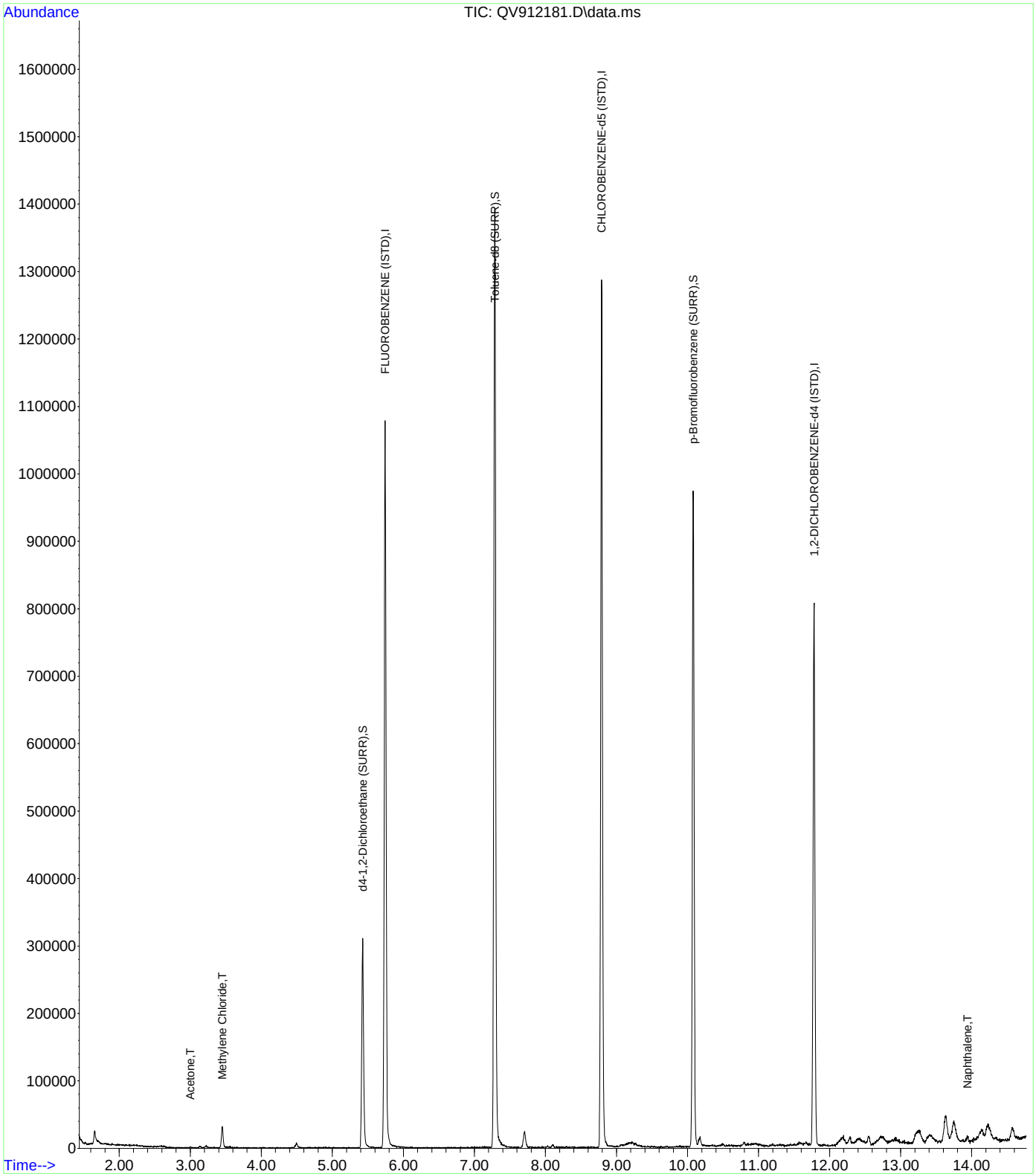
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.743	70	183621	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	8.789	117	739241	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.782	152	232752	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.427	65	221818	8.84	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 88.40%			
51) Toluene-d8 (SURR)	7.287	98	969752	10.13	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 101.30%			
70) p-Bromofluorobenzene (...	10.079	95	374578	11.51	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 115.10%			
Target Compounds						Qvalue
12) Acetone	2.997	43	861	0.34	ppb	# 1
17) Methylene Chloride	3.451	49	16479	0.80	ppb	# 63
93) Naphthalene	13.938	128	6733	0.23	ppb	# 80

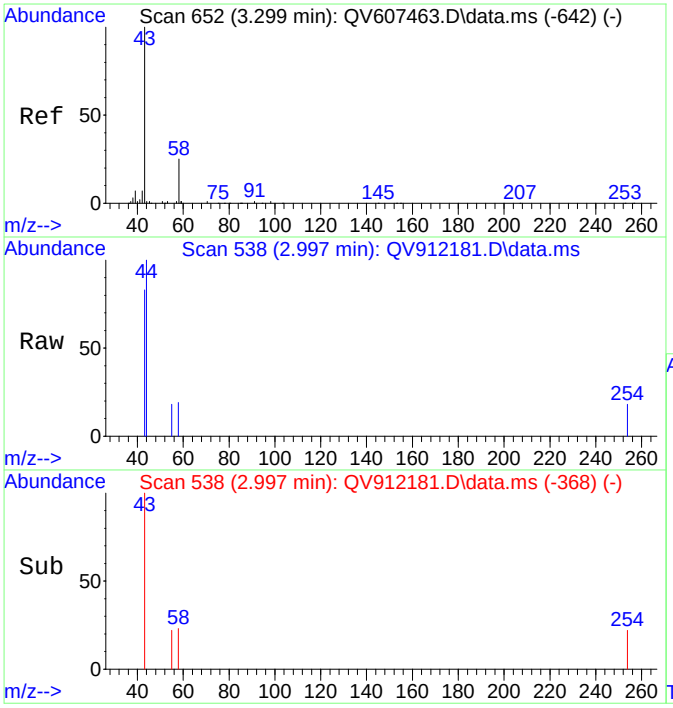
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912181.D
Acq On : 9 Jun 2020 10:23 am
Operator : TMP
Sample : 20F0067-05
Misc : QBQV9060820B 8260 B
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Jun 09 13:30:03 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

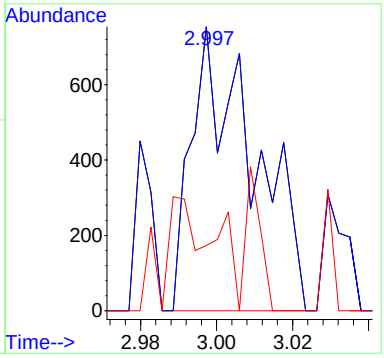


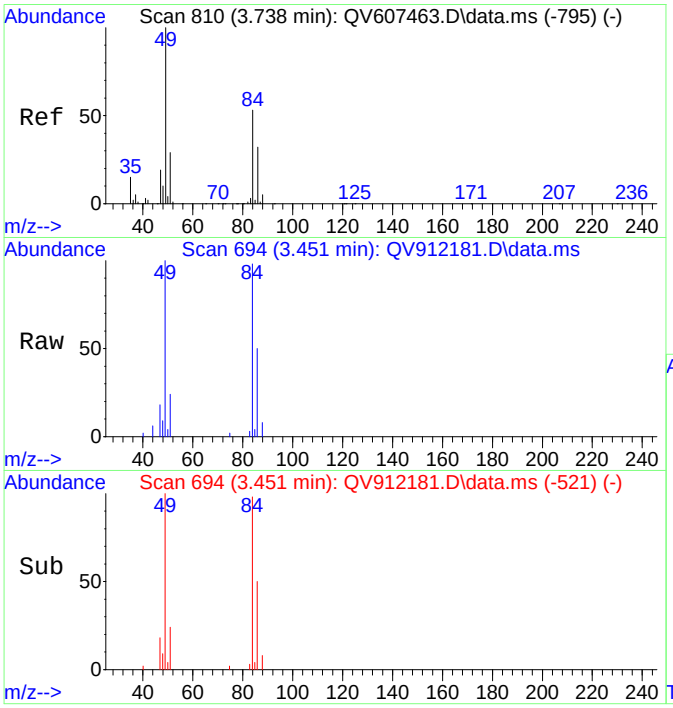


#12
Acetone
Concen: 0.34 ppb
RT: 2.997 min Scan# 538
Delta R.T. -0.006 min
Lab File: QV912181.D
Acq: 9 Jun 2020 10:23 am

Tgt Ion: 43 Resp: 861

Ion	Ratio	Lower	Upper
43	100		
43	100.0	2.8	4.2#
58	11.8	0.4	1.1#

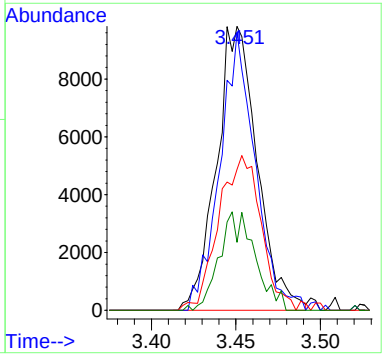


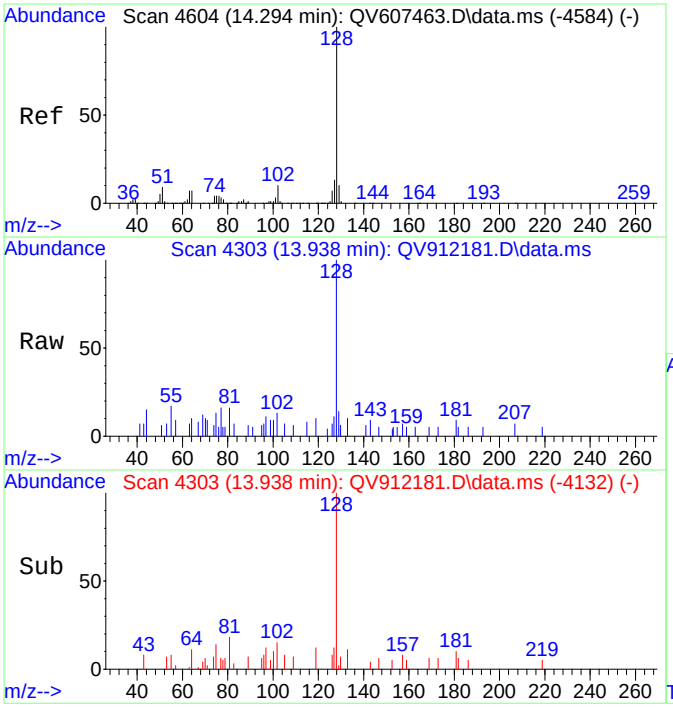


#17
Methylene Chloride
Concen: 0.80 ppb
RT: 3.451 min Scan# 694
Delta R.T. 0.003 min
Lab File: QV912181.D
Acq: 9 Jun 2020 10:23 am

Tgt Ion: 49 Resp: 16479

Ion	Ratio	Lower	Upper
49	100		
84	85.3	30.1	62.5#
86	56.7	28.6	59.4
51	15.8	20.9	43.3#

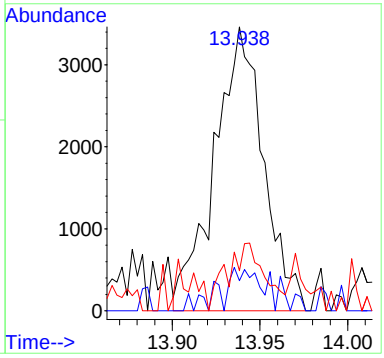




#93
Naphthalene
Concen: 0.23 ppb
RT: 13.938 min Scan# 4303
Delta R.T. -0.003 min
Lab File: QV912181.D
Acq: 9 Jun 2020 10:23 am

Tgt Ion:128 Resp: 6733

Ion	Ratio	Lower	Upper
128	100		
127	3.3	9.0	18.6#
129	8.6	3.9	8.1#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-DUP 0620

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	20F0067-06	File ID:	QV619437.D
Sampled:	06/01/20 00:00	Prepared:	06/05/20 06:57	Analyzed:	06/05/20 20:01
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF00412	Sequence:	Y0F0821	Calibration:	YF00005
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	20	
75-35-4	1,1-Dichloroethylene	1	130	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.92	
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	1.6	B
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-DUP 0620

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	20F0067-06	File ID:	QV619437.D
Sampled:	06/01/20 00:00	Prepared:	06/05/20 06:57	Analyzed:	06/05/20 20:01
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF00412	Sequence:	Y0F0821	Calibration:	YF00005
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.31	J
108-88-3	Toluene	1	1.3	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.57	95.7	69 - 130	
SURR: Toluene-d8	10.0	9.59	95.9	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.21	92.1	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	46545	6.134	49957	6.131	
ISTD: Chlorobenzene-d5	160950	9.189	185241	9.186	
ISTD: 1,2-Dichlorobenzene-d4	68620	12.168	82039	12.16	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060520A\
Data File : QV619437.D
Acq On : 5 Jun 2020 8:01 pm
InstName : QVOA6
Operator : TMP
Sample : 20F0067-06
Misc : QBQV6060520A COMP B AF
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 08 11:16:59 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Jun 03 10:29:09 2020
Response via : Initial Calibration

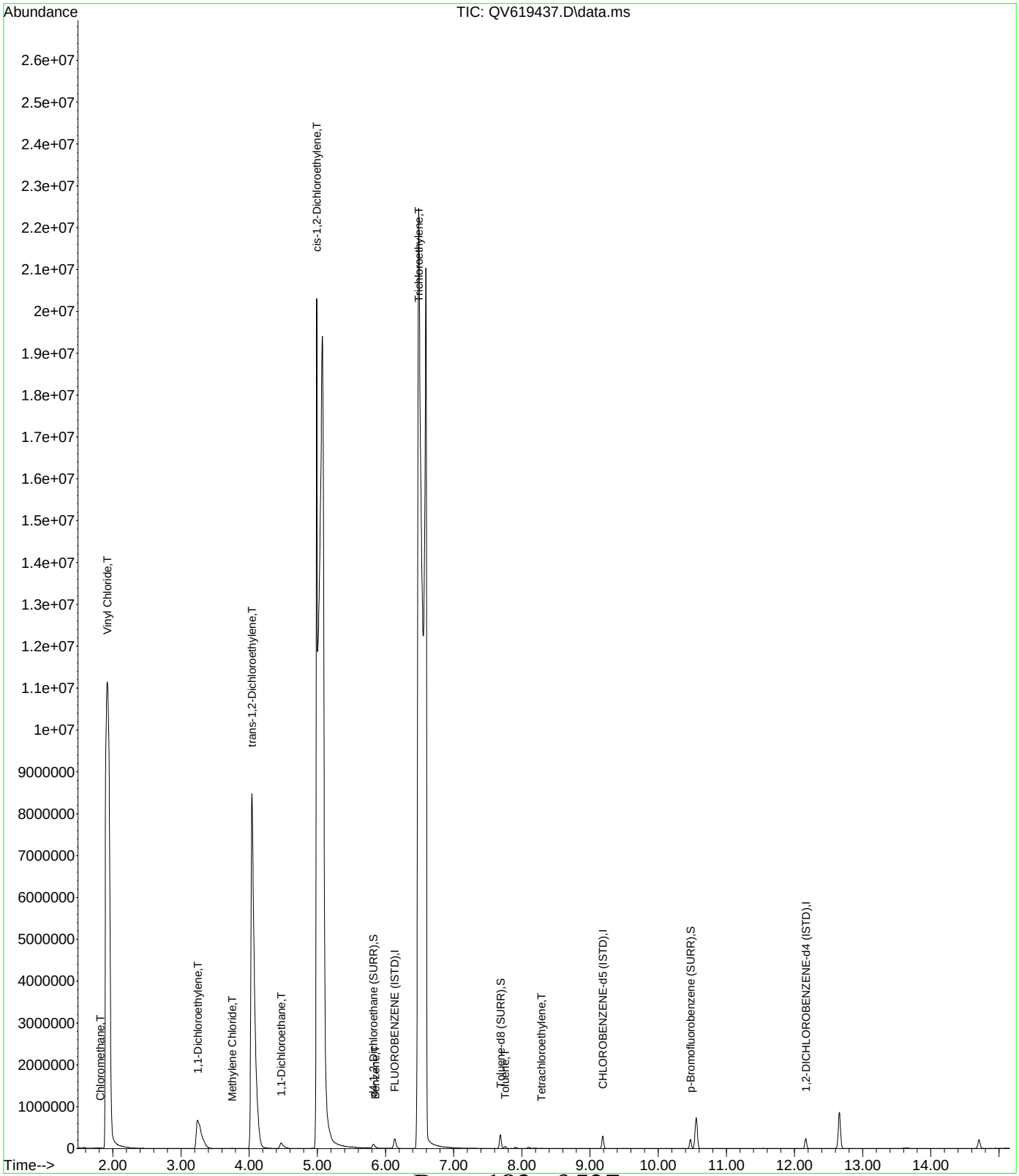
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.134	70	46545	10.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	9.189	117	160950	10.00	ppb	0.00
70) 1,2-DICHLOROBENZENE-d4...	12.168	152	68620	10.00	ppb	0.01
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.819	65	61459	9.57	ppb	0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 95.70%			
53) Toluene-d8 (SURR)	7.686	98	215485	9.59	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 95.90%			
73) p-Bromofluorobenzene (...	10.474	95	71467	9.21	ppb	0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 92.10%			
Target Compounds						Qvalue
3) Chloromethane	1.816	50	10401	1.61	ppb	# 81
4) Vinyl Chloride	1.919	62	25601449	4539.25	ppb	# 43
10) 1,1-Dichloroethylene	3.246	61	1193524	133.42	ppb	# 68
18) Methylene Chloride	3.749	49	4925m	0.57	ppb	
20) trans-1,2-Dichloroethy...	4.042	61	8926368	1031.01	ppb	100
22) 1,1-Dichloroethane	4.470	63	224113	19.70	ppb	99
26) cis-1,2-Dichloroethylene	4.990	61	33251677m	3234.34	ppb	
39) Benzene	5.850	78	20098	0.92	ppb	# 1
42) Trichloroethylene	6.487	95	22797310m	3561.13	ppb	
54) Toluene	7.756	91	32889	1.32	ppb	100
59) Tetrachloroethylene	8.290	166	2026	0.31	ppb	# 98

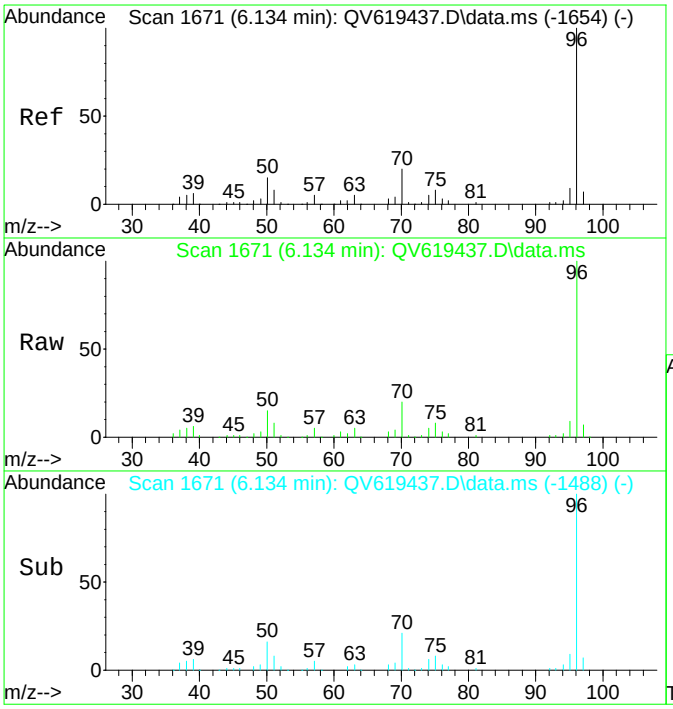
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060520A\
Data File : QV619437.D
Acq On : 5 Jun 2020 8:01 pm
InstName : QVOA6
Operator : TMP
Sample : 20F0067-06
Misc : QBQV6060520A COMP B AF
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 08 11:16:59 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Jun 03 10:29:09 2020
Response via : Initial Calibration

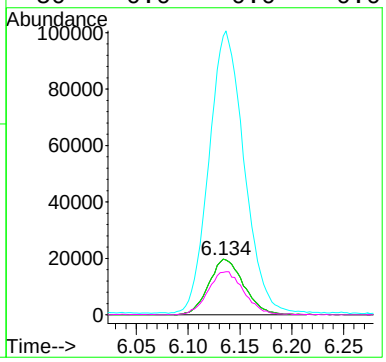


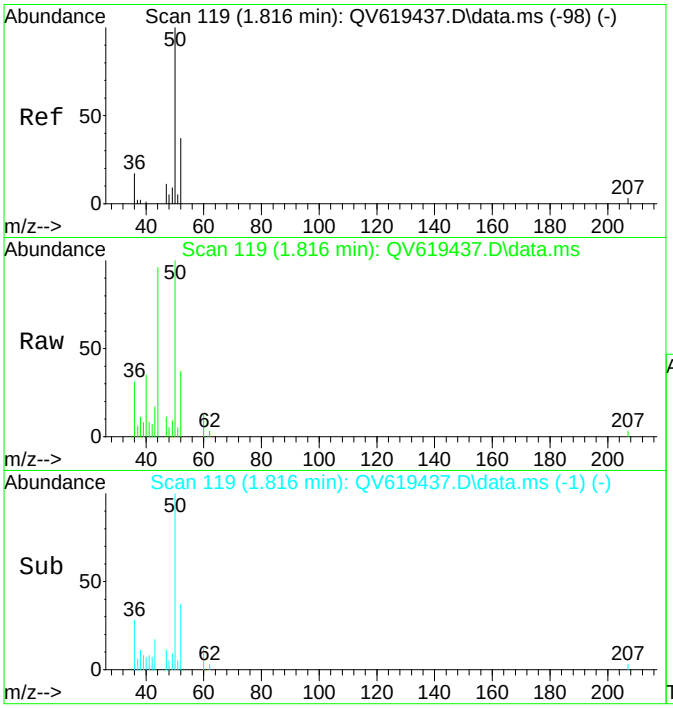


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 6.134 min Scan# 1671
Delta R.T. 0.009 min
Lab File: QV619437.D
Acq: 5 Jun 2020 8:01 pm

Tgt Ion: 70 Resp: 46545

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	0.0	341.1	708.3#
50	0.0	0.0	0.0

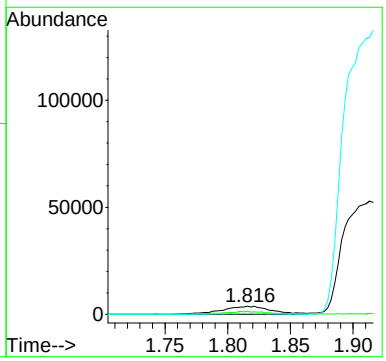


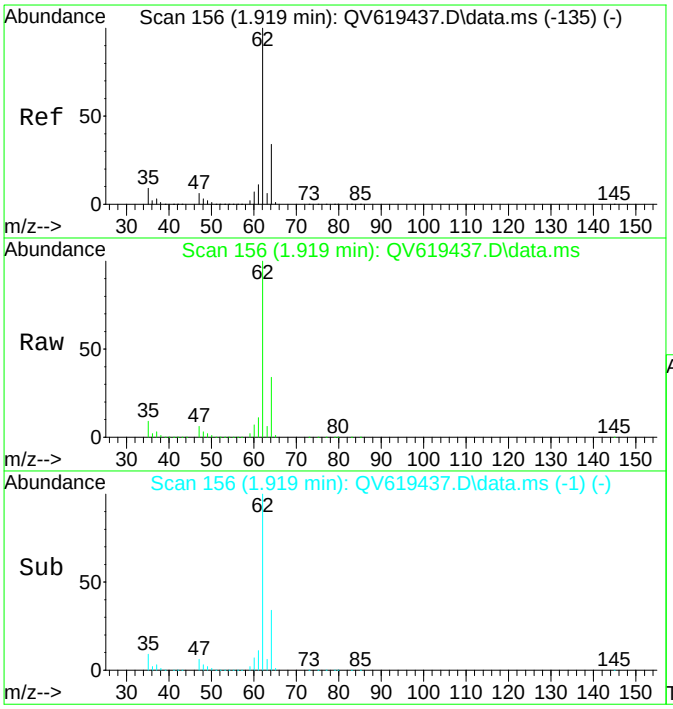


#3
Chloromethane
Concen: 1.61 ppb
RT: 1.816 min Scan# 119
Delta R.T. 0.034 min
Lab File: QV619437.D
Acq: 5 Jun 2020 8:01 pm

Tgt Ion: 50 Resp: 10401

Ion	Ratio	Lower	Upper
50	100		
52	15.8	5.2	10.8#
49	0.0	2.0	4.2#

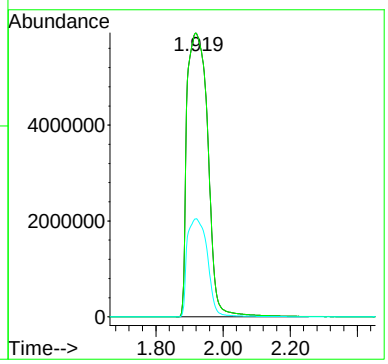


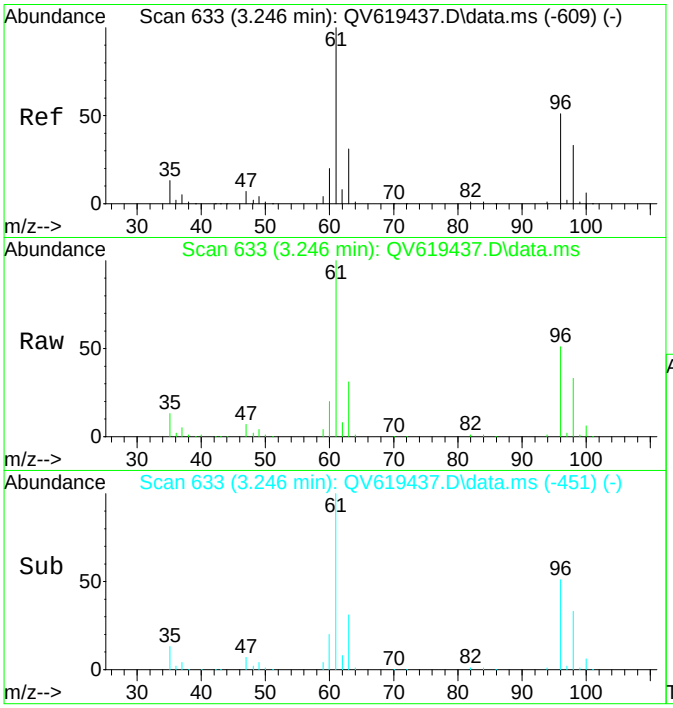


#4
Vinyl Chloride
Concen: 4539.25 ppb
RT: 1.919 min Scan# 156
Delta R.T. 0.009 min
Lab File: QV619437.D
Acq: 5 Jun 2020 8:01 pm

Tgt Ion: 62 Resp:25601449

Ion	Ratio	Lower	Upper
62	100		
62	100.0	36.0	74.8#
64	0.0	12.5	25.9#

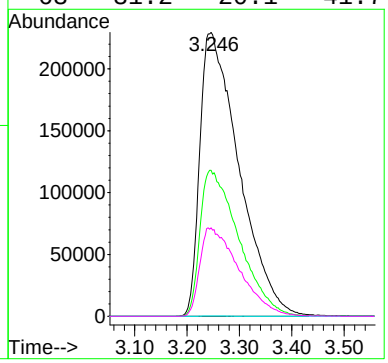


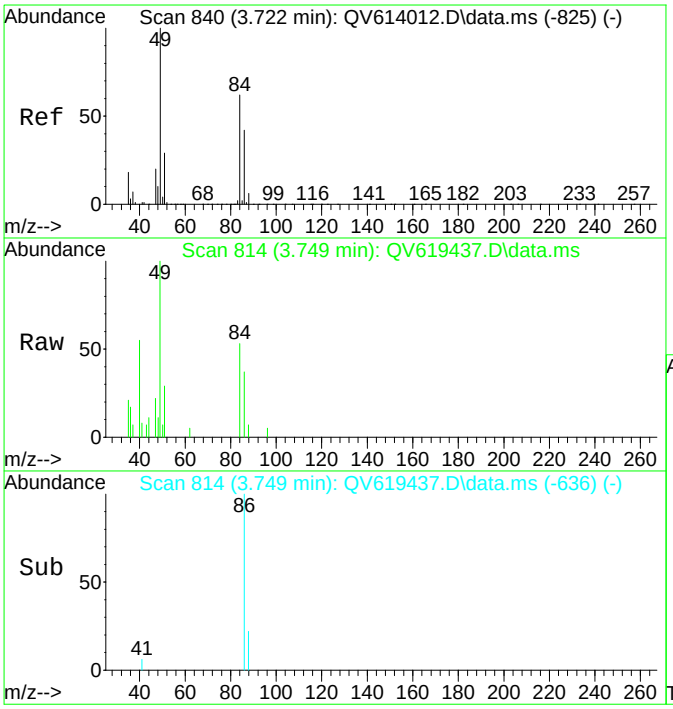


#10
1,1-Dichloroethylene
Concen: 133.42 ppb
RT: 3.246 min Scan# 633
Delta R.T. 0.006 min
Lab File: QV619437.D
Acq: 5 Jun 2020 8:01 pm

Tgt Ion: 61 Resp: 1193524

Ion	Ratio	Lower	Upper
61	100		
96	51.1	33.6	69.8
101	0.0	37.0	77.0#
63	31.2	20.1	41.7

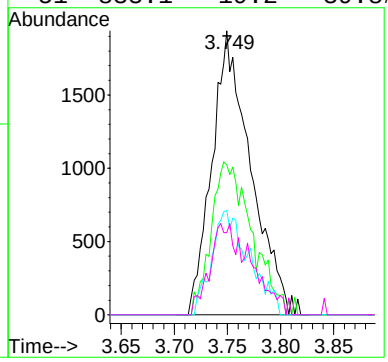


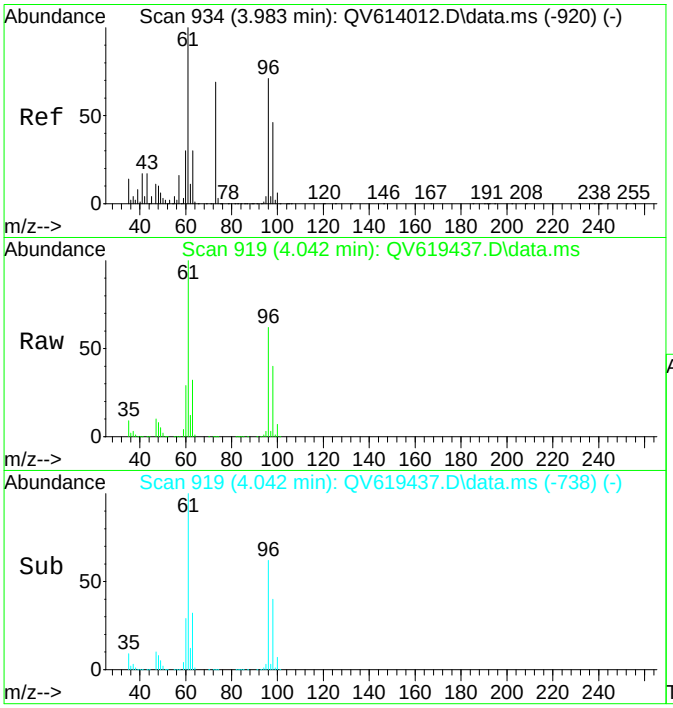


#18
Methylene Chloride
Concen: 0.57 ppb m
RT: 3.749 min Scan# 814
Delta R.T. -0.006 min
Lab File: QV619437.D
Acq: 5 Jun 2020 8:01 pm

Tgt Ion: 49 Resp: 4925

Ion	Ratio	Lower	Upper
49	100		
84	13.9	35.0	72.8#
86	0.8	22.7	47.3#
51	833.1	19.2	39.8#

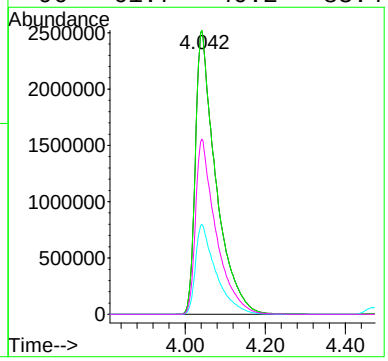


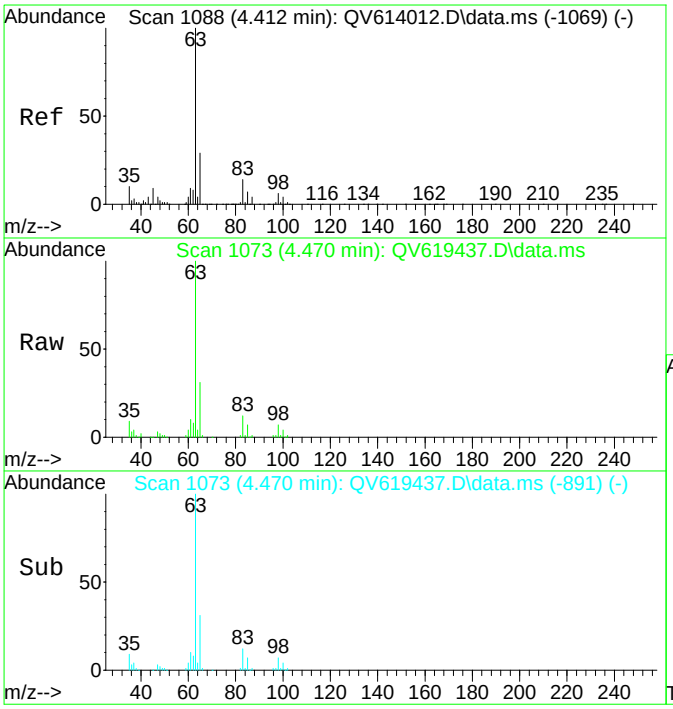


#20
trans-1,2-Dichloroethylene
Concen: 1031.01 ppb
RT: 4.042 min Scan# 919
Delta R.T. 0.003 min
Lab File: QV619437.D
Acq: 5 Jun 2020 8:01 pm

Tgt Ion: 61 Resp: 8926368

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	31.7	20.9	43.3
96	61.7	40.2	83.4

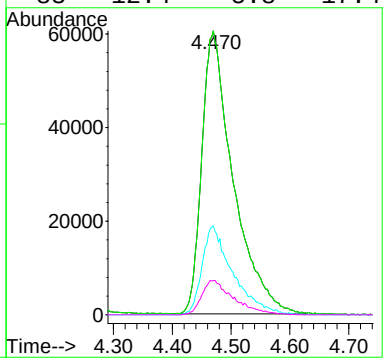


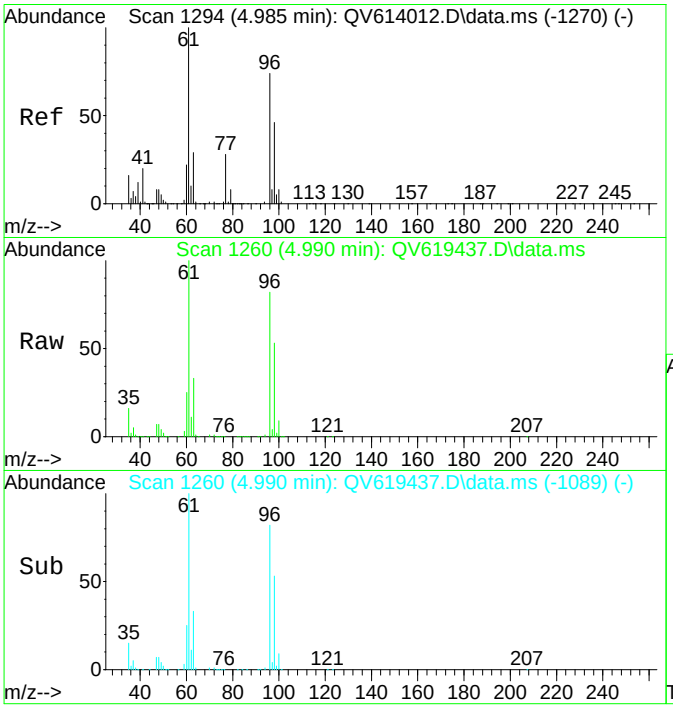


#22
1,1-Dichloroethane
Concen: 19.70 ppb
RT: 4.470 min Scan# 1073
Delta R.T. 0.006 min
Lab File: QV619437.D
Acq: 5 Jun 2020 8:01 pm

Tgt Ion: 63 Resp: 224113

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	30.7	19.4	40.2
83	12.4	5.8	17.4

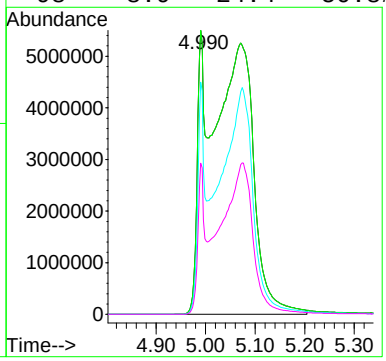


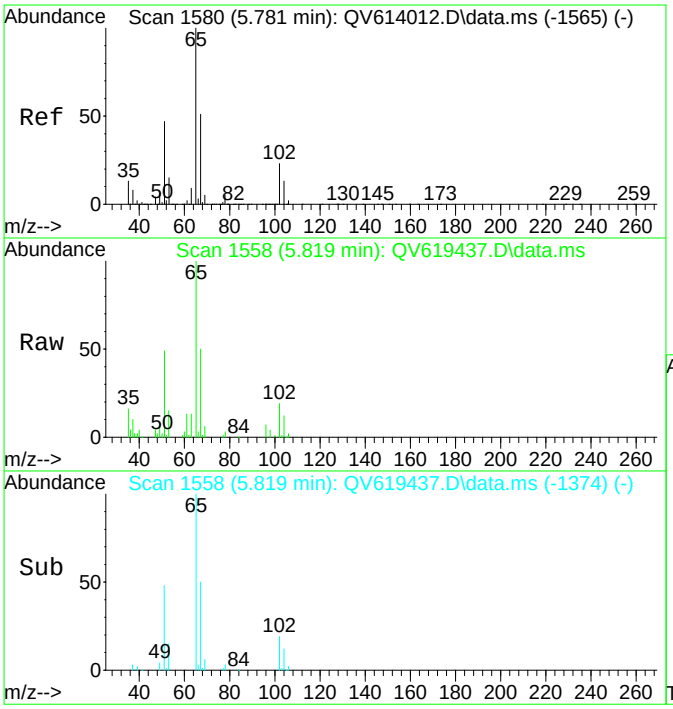


#26
cis-1,2-Dichloroethylene
Concen: 3234.34 ppb m
RT: 4.990 min Scan# 1260
Delta R.T. -0.025 min
Lab File: QV619437.D
Acq: 5 Jun 2020 8:01 pm

Tgt Ion: 61 Resp:33251677

Ion	Ratio	Lower	Upper
61	100		
61	19.5	65.0	135.0#
96	13.9	39.2	81.4#
98	8.9	24.4	50.8#

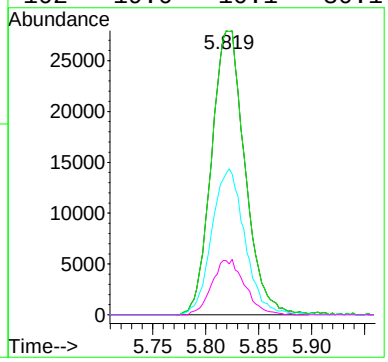


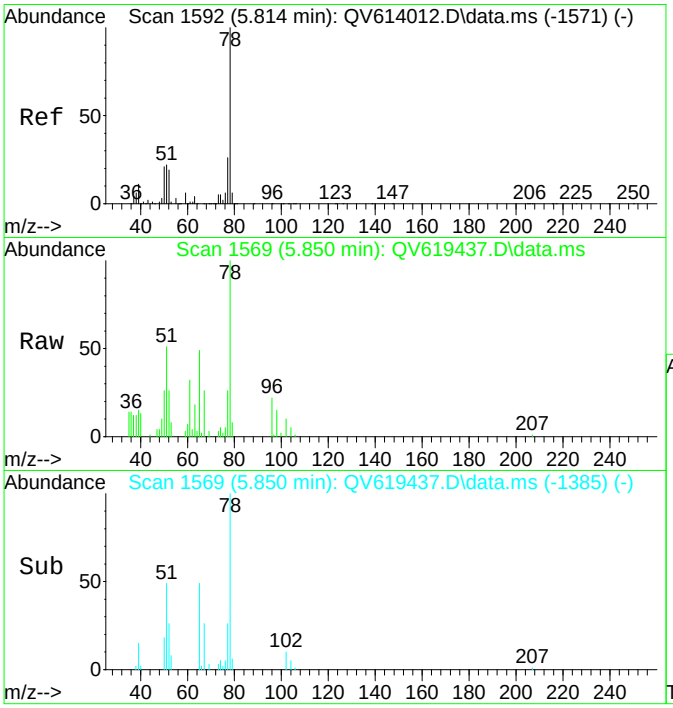


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.57 ppb
RT: 5.819 min Scan# 1558
Delta R.T. 0.011 min
Lab File: QV619437.D
Acq: 5 Jun 2020 8:01 pm

Tgt Ion: 65 Resp: 61459

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	50.6	34.0	70.6
102	19.0	10.1	30.1

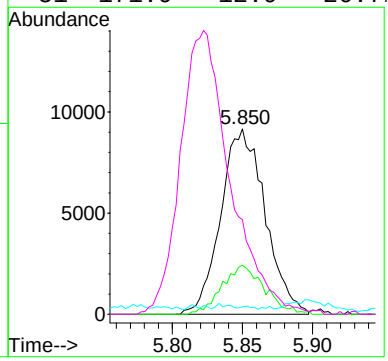


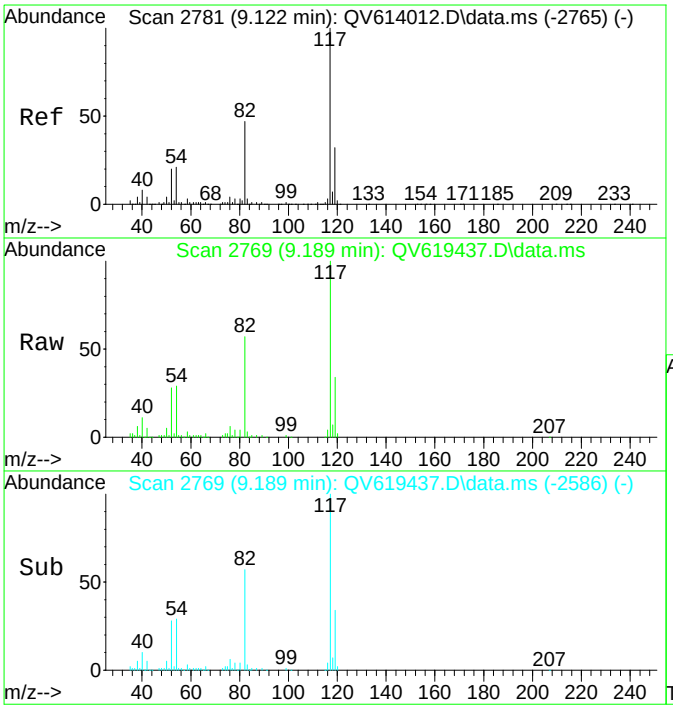


#39
Benzene
Concen: 0.92 ppb
RT: 5.850 min Scan# 1569
Delta R.T. 0.011 min
Lab File: QV619437.D
Acq: 5 Jun 2020 8:01 pm

Tgt Ion: 78 Resp: 20098

Ion	Ratio	Lower	Upper
78	100		
77	25.6	15.7	32.5
62	0.8	22.9	47.5#
51	171.9	12.9	26.7#

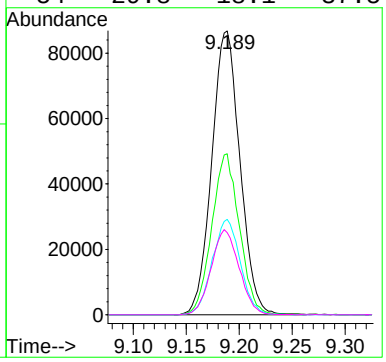


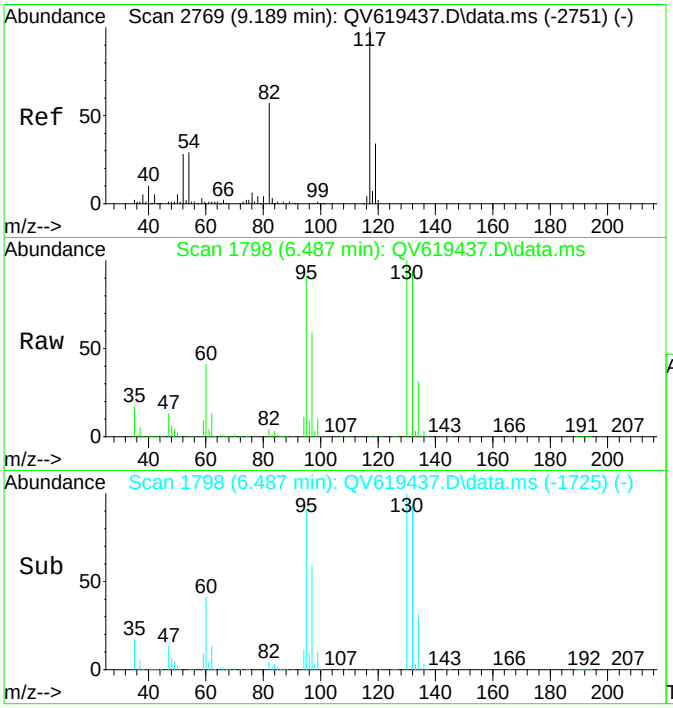


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 9.189 min Scan# 2769
Delta R.T. 0.009 min
Lab File: QV619437.D
Acq: 5 Jun 2020 8:01 pm

Tgt Ion:117 Resp: 160950

Ion	Ratio	Lower	Upper
117	100		
82	55.5	34.5	71.7
119	33.5	20.9	43.3
54	29.8	18.1	37.5

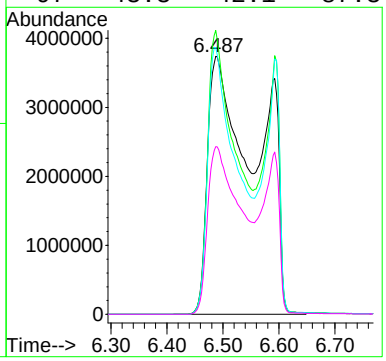


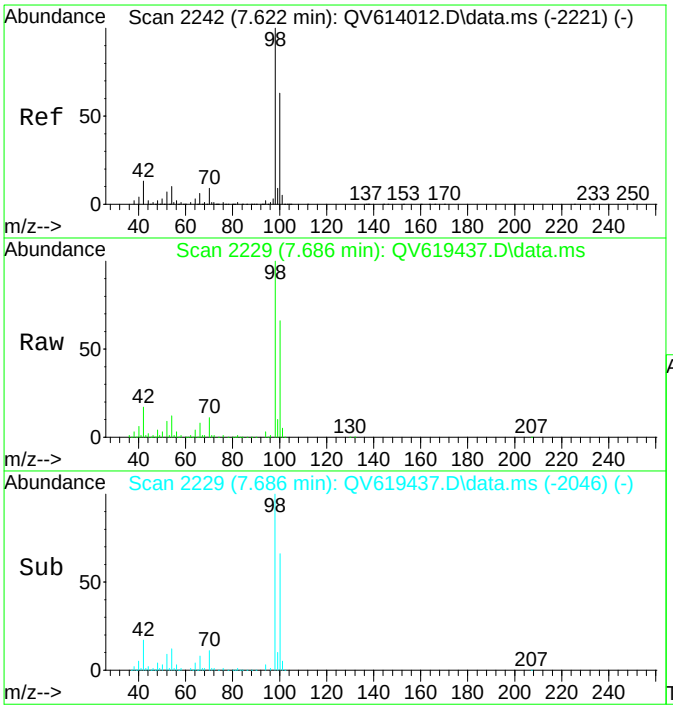


#42
Trichloroethylene
Concen: 3561.13 ppb m
RT: 6.487 min Scan# 1798
Delta R.T. 0.003 min
Lab File: QV619437.D
Acq: 5 Jun 2020 8:01 pm

Tgt Ion: 95 Resp:22797310

Ion	Ratio	Lower	Upper
95	100		
130	64.0	70.0	145.4#
132	61.6	69.6	144.6#
97	43.3	42.1	87.3

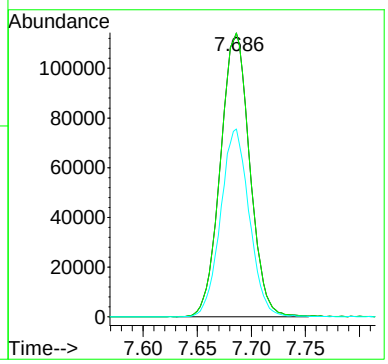


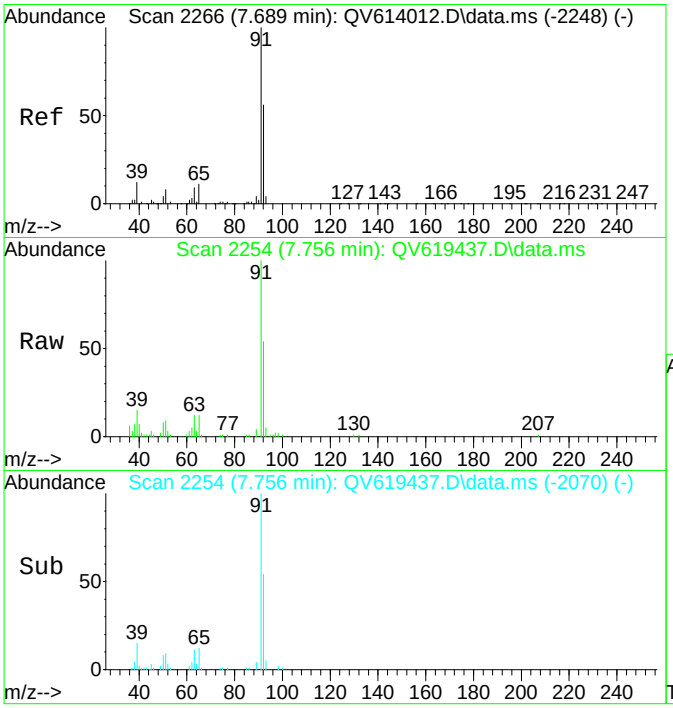


#53
Toluene-d8 (SURR)
Concen: 9.59 ppb
RT: 7.686 min Scan# 2229
Delta R.T. 0.008 min
Lab File: QV619437.D
Acq: 5 Jun 2020 8:01 pm

Tgt Ion: 98 Resp: 215485

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	64.9	44.2	91.8

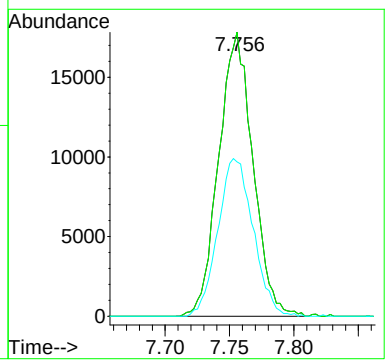


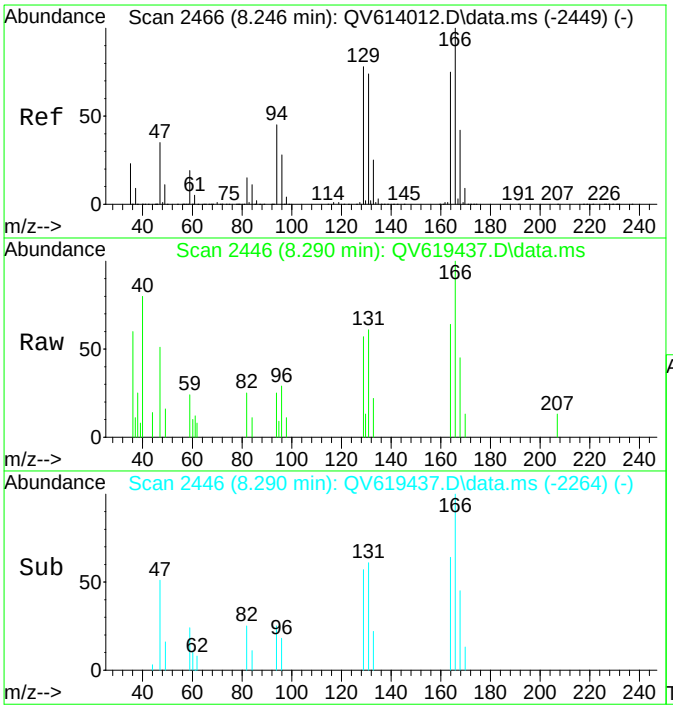


#54
Toluene
Concen: 1.32 ppb
RT: 7.756 min Scan# 2254
Delta R.T. 0.011 min
Lab File: QV619437.D
Acq: 5 Jun 2020 8:01 pm

Tgt Ion: 91 Resp: 32889

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
92	57.4	37.2	77.4

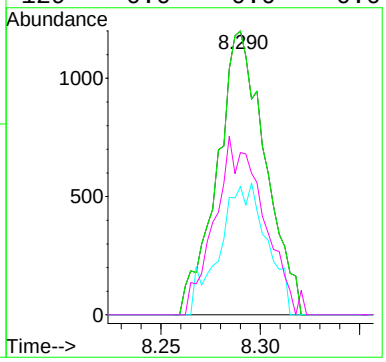


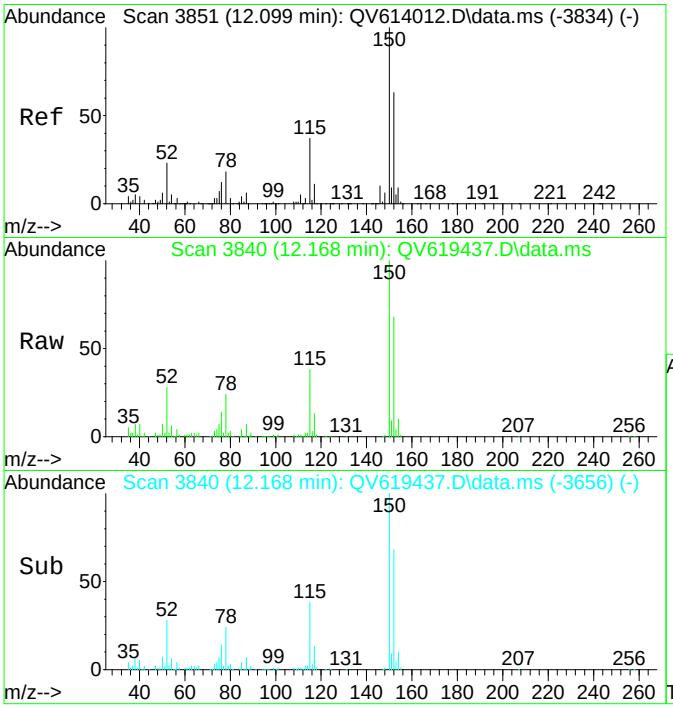


#59
Tetrachloroethylene
Concen: 0.31 ppb
RT: 8.290 min Scan# 2446
Delta R.T. 0.006 min
Lab File: QV619437.D
Acq: 5 Jun 2020 8:01 pm

Tgt Ion:166 Resp: 2026

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	45.5	31.7	65.7
129	0.0	0.0	0.0

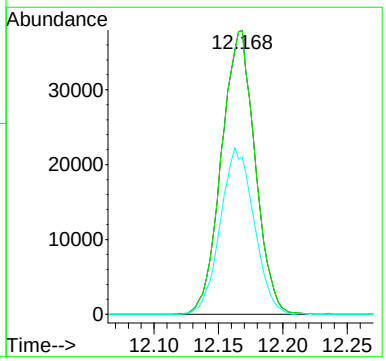


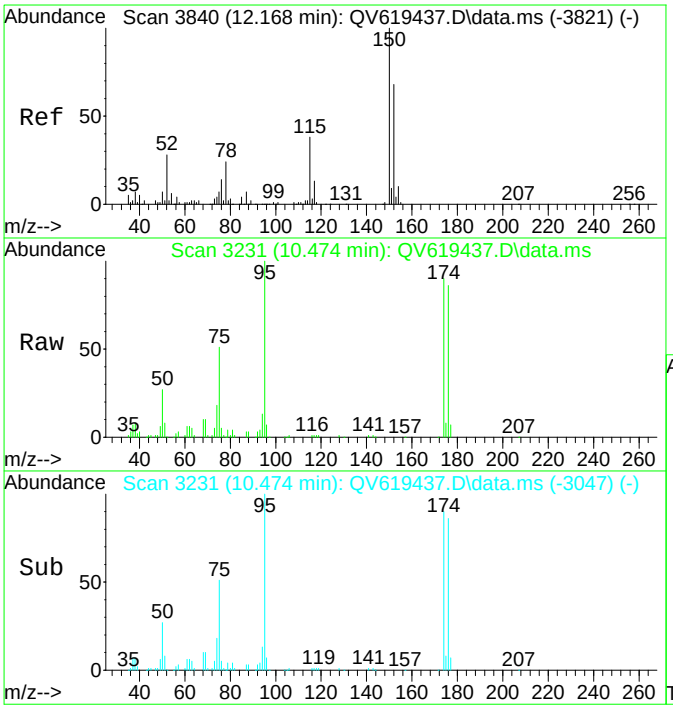


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 12.168 min Scan# 3840
Delta R.T. 0.011 min
Lab File: QV619437.D
Acq: 5 Jun 2020 8:01 pm

Tgt Ion:152 Resp: 68620

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	58.9	29.8	89.3

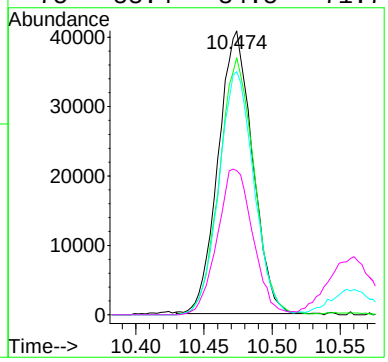




#73
p-Bromofluorobenzene (SURR)
Concen: 9.21 ppb
RT: 10.474 min Scan# 3231
Delta R.T. 0.011 min
Lab File: QV619437.D
Acq: 5 Jun 2020 8:01 pm

Tgt Ion: 95 Resp: 71467

Ion	Ratio	Lower	Upper
95	100		
174	92.1	62.5	129.9
176	87.6	60.7	126.1
75	53.4	34.5	71.7



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KC-MW-DUP 0620

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	20F0067-06RE1	File ID:	QV619473.D
Sampled:	06/01/20 00:00	Prepared:	06/05/20 06:57	Analyzed:	06/08/20 17:58
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BF00479	Sequence:	Y0F0932	Calibration:	YF00005
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	200	27000	BD
156-60-5	trans-1,2-Dichloroethylene	200	730	D
79-01-6	Trichloroethylene	200	23000	BD
75-01-4	Vinyl Chloride	200	4800	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.80	98.0	69 - 130	D
SURR: Toluene-d8	10.0	9.74	97.4	81 - 117	D
SURR: p-Bromofluorobenzene	10.0	9.57	95.7	79 - 122	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	56846	6.128	52499	6.131	
ISTD: Chlorobenzene-d5	205272	9.186	192611	9.186	
ISTD: 1,2-Dichlorobenzene-d4	85704	12.16	87449	12.163	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060820A\
Data File : QV619473.D
Acq On : 8 Jun 2020 5:58 pm
InstName : QVOA6
Operator : TMP
Sample : 20F0067-06RE1
Misc : QBQV6060820A COMP C 250UL/50ML
ALS Vial : 13 Sample Multiplier: 200

Quant Time: Jun 09 15:12:55 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Jun 03 10:29:09 2020
Response via : Initial Calibration

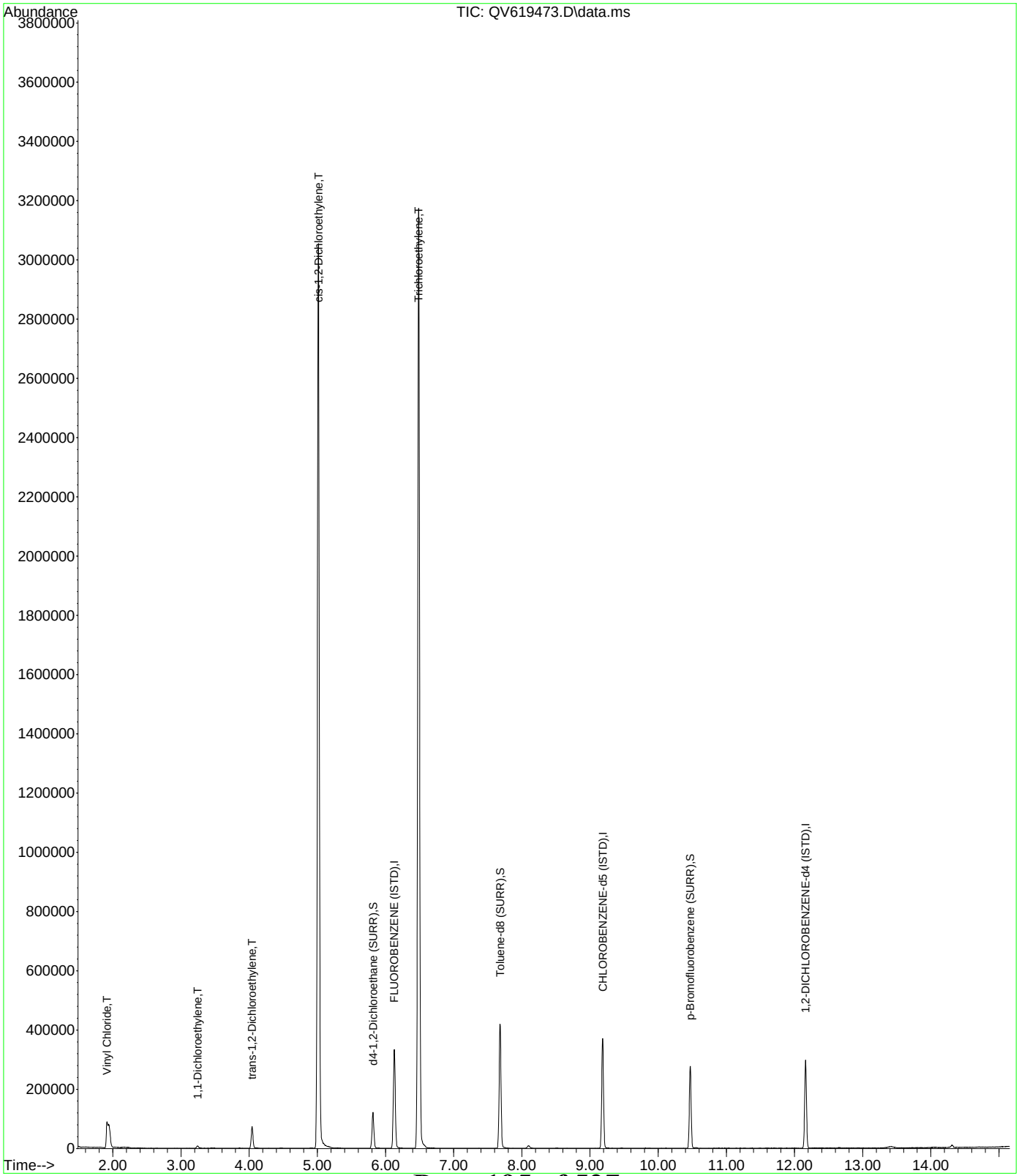
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.128	70	56846	10.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	9.186	117	205272	10.00	ppb	0.00
70) 1,2-DICHLOROBENZENE-d4...	12.160	152	85704	10.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.816	65	76908	9.80	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 98.00%			
53) Toluene-d8 (SURR)	7.681	98	279093	9.74	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 97.40%			
73) p-Bromofluorobenzene (...	10.468	95	92805	9.57	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 95.70%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.913	62	166814m	24.22	ppb	
10) 1,1-Dichloroethylene	3.243	61	5523	0.51	ppb	# 48
20) trans-1,2-Dichloroethy...	4.041	61	38555	3.65	ppb	100
26) cis-1,2-Dichloroethylene	5.015	61	1709768	136.17	ppb	95
42) Trichloroethylene	6.484	95	948301	116.15	ppb	95

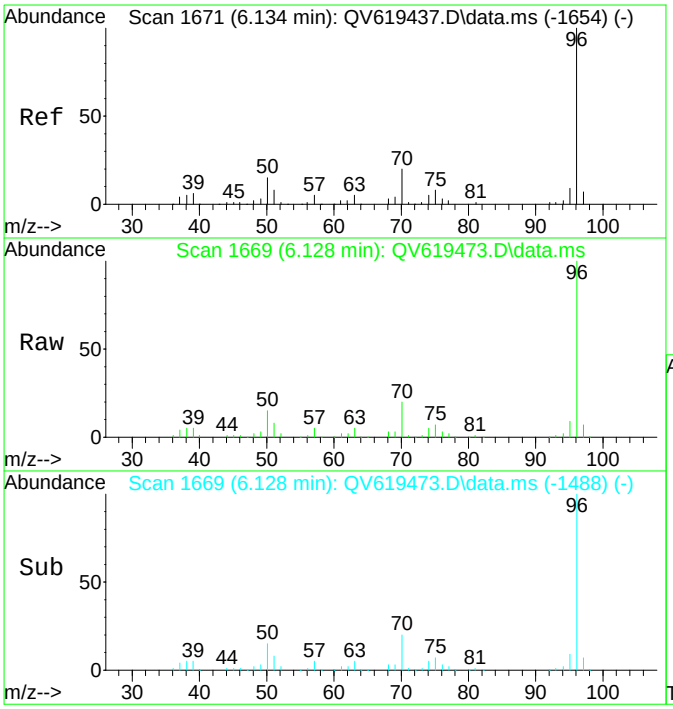
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060820A\
Data File : QV619473.D
Acq On : 8 Jun 2020 5:58 pm
InstName : QVOA6
Operator : TMP
Sample : 20F0067-06RE1
Misc : QBQV6060820A COMP C 250UL/50ML
ALS Vial : 13 Sample Multiplier: 200

Quant Time: Jun 09 15:12:55 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Jun 03 10:29:09 2020
Response via : Initial Calibration

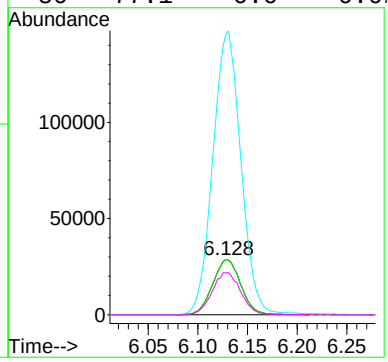


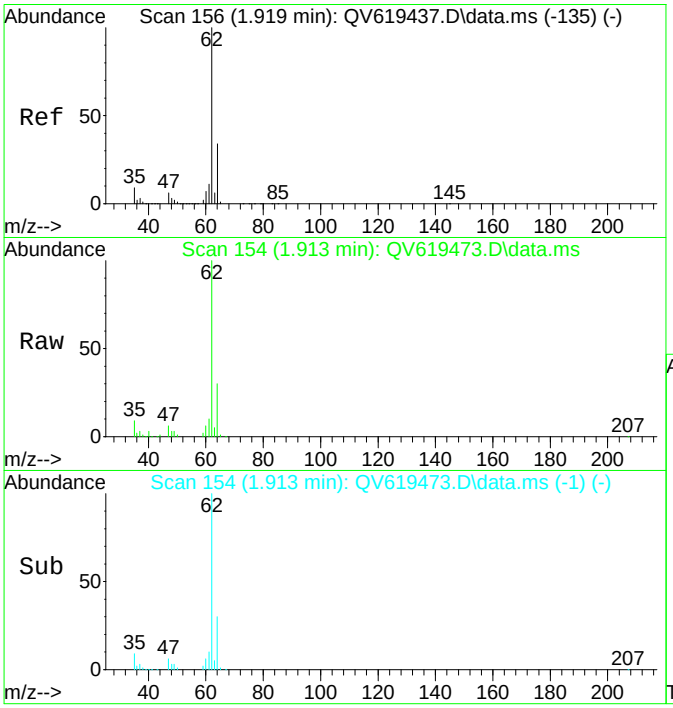


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 6.128 min Scan# 1669
Delta R.T. 0.003 min
Lab File: QV619473.D
Acq: 8 Jun 2020 5:58 pm

Tgt Ion: 70 Resp: 56846

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	0.0	341.1	708.3#
50	77.1	0.0	0.0#

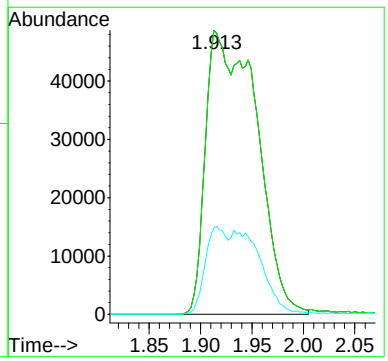


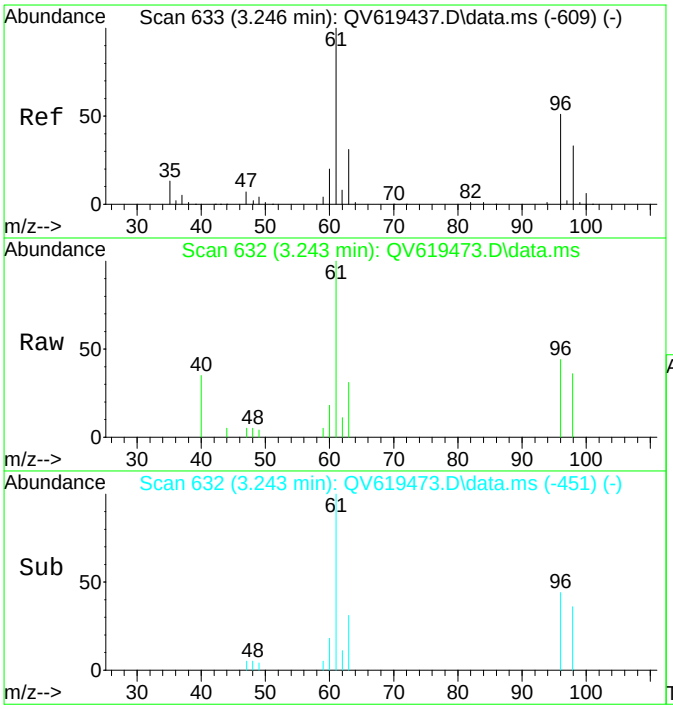


#4
Vinyl Chloride
Concen: 24.22 ppb m
RT: 1.913 min Scan# 154
Delta R.T. 0.003 min
Lab File: QV619473.D
Acq: 8 Jun 2020 5:58 pm

Tgt Ion: 62 Resp: 166814

Ion	Ratio	Lower	Upper
62	100		
62	47.1	36.0	74.8
64	0.0	12.5	25.9#

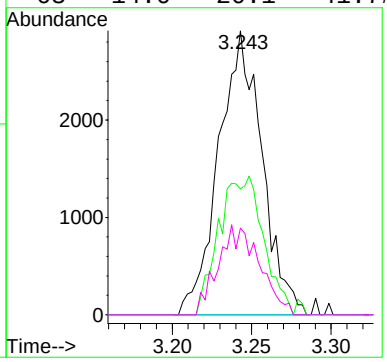


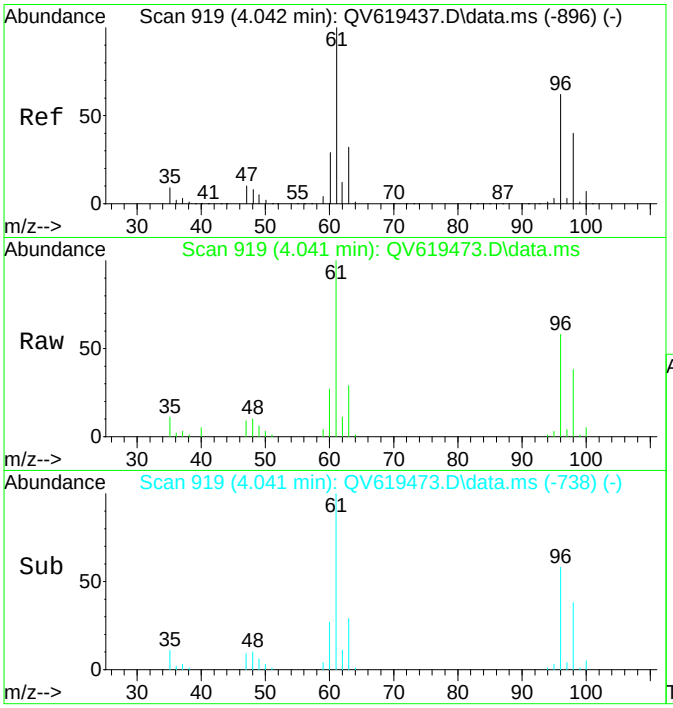


#10
1,1-Dichloroethylene
Concen: 0.51 ppb
RT: 3.243 min Scan# 632
Delta R.T. 0.003 min
Lab File: QV619473.D
Acq: 8 Jun 2020 5:58 pm

Tgt Ion: 61 Resp: 5523

Ion	Ratio	Lower	Upper
61	100		
96	26.4	33.6	69.8#
101	0.0	37.0	77.0#
63	14.0	20.1	41.7#

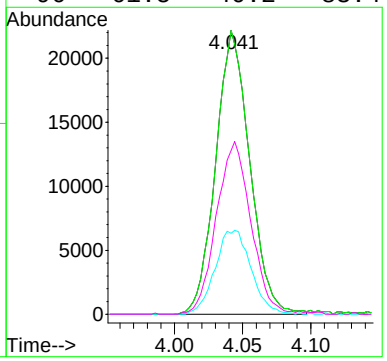


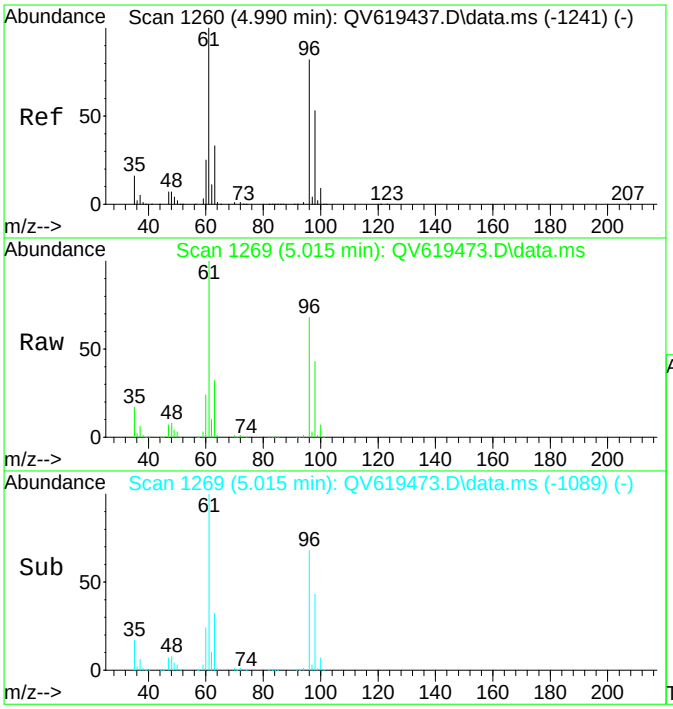


#20
trans-1,2-Dichloroethylene
Concen: 3.65 ppb
RT: 4.041 min Scan# 919
Delta R.T. 0.002 min
Lab File: QV619473.D
Acq: 8 Jun 2020 5:58 pm

Tgt Ion: 61 Resp: 38555

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	31.3	20.9	43.3
96	61.5	40.2	83.4

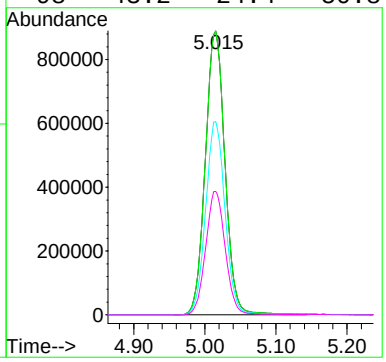


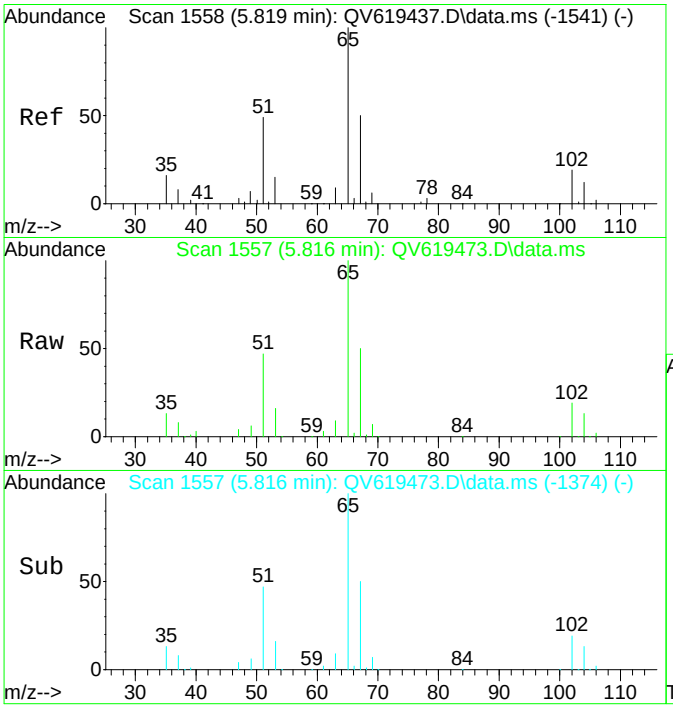


#26
cis-1,2-Dichloroethylene
Concen: 136.17 ppb
RT: 5.015 min Scan# 1269
Delta R.T. 0.000 min
Lab File: QV619473.D
Acq: 8 Jun 2020 5:58 pm

Tgt Ion: 61 Resp: 1709768

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	67.2	39.2	81.4
98	43.2	24.4	50.8

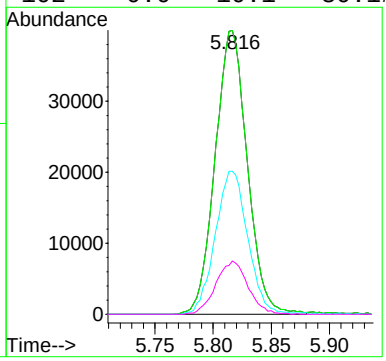


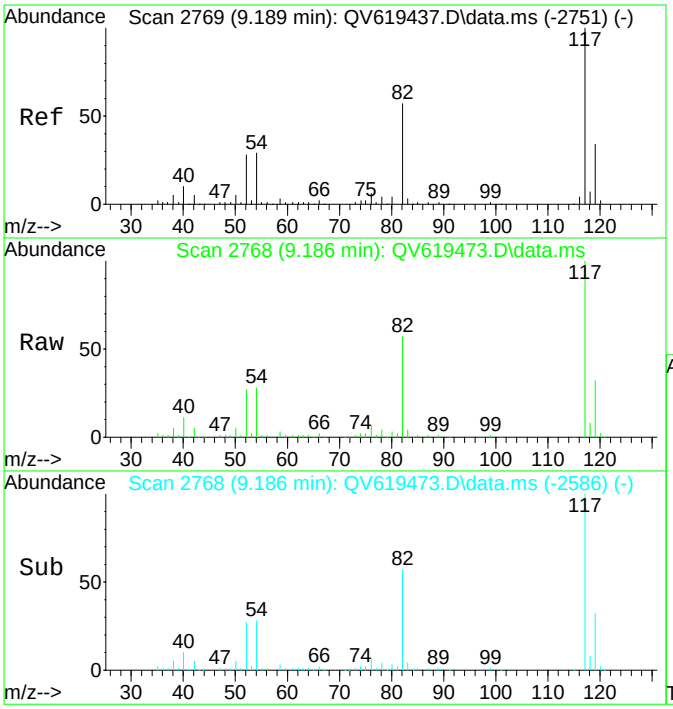


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.80 ppb
RT: 5.816 min Scan# 1557
Delta R.T. 0.008 min
Lab File: QV619473.D
Acq: 8 Jun 2020 5:58 pm

Tgt Ion: 65 Resp: 76908

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	50.9	34.0	70.6
102	0.0	10.1	30.1#

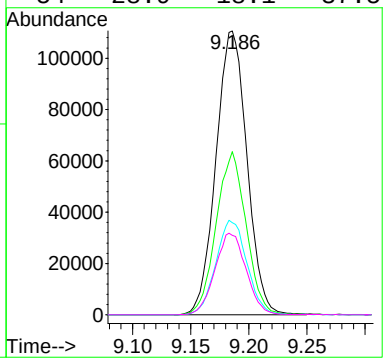


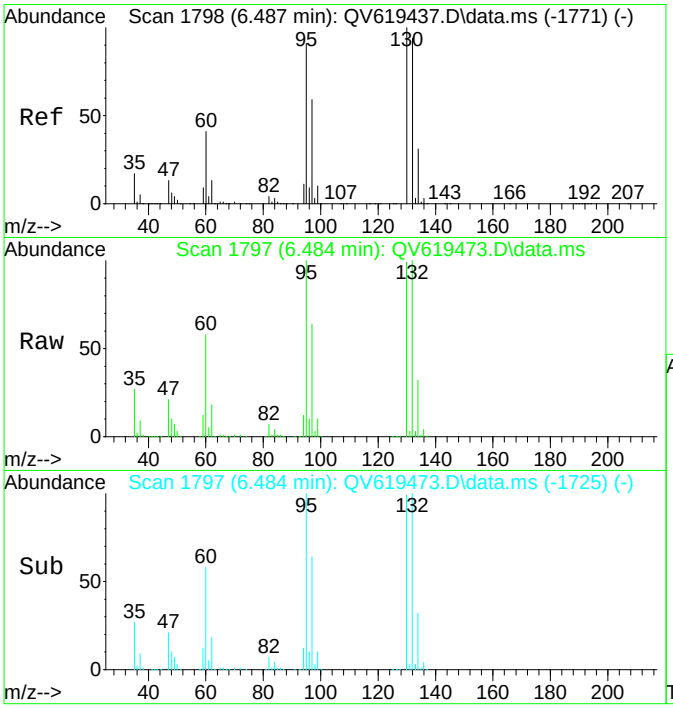


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 9.186 min Scan# 2768
Delta R.T. 0.006 min
Lab File: QV619473.D
Acq: 8 Jun 2020 5:58 pm

Tgt Ion:117 Resp: 205272

Ion	Ratio	Lower	Upper
117	100		
82	55.5	34.5	71.7
119	33.3	20.9	43.3
54	28.9	18.1	37.5

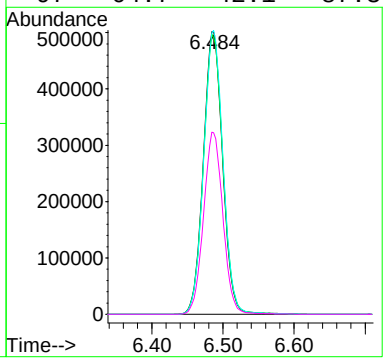


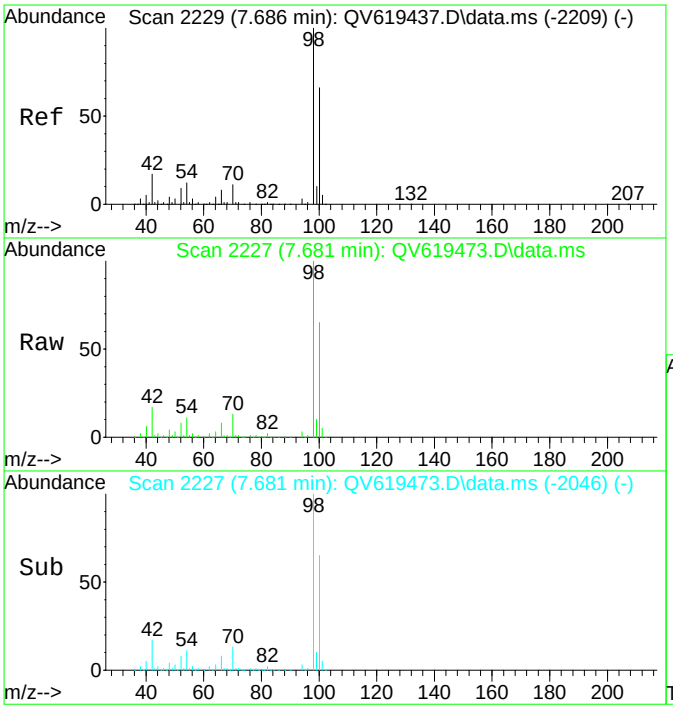


#42
Trichloroethylene
Concen: 116.15 ppb
RT: 6.484 min Scan# 1797
Delta R.T. 0.000 min
Lab File: QV619473.D
Acq: 8 Jun 2020 5:58 pm

Tgt Ion: 95 Resp: 948301

Ion	Ratio	Lower	Upper
95	100		
130	99.7	70.0	145.4
132	100.5	69.6	144.6
97	64.7	42.1	87.3

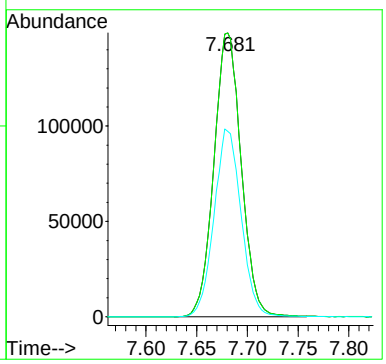


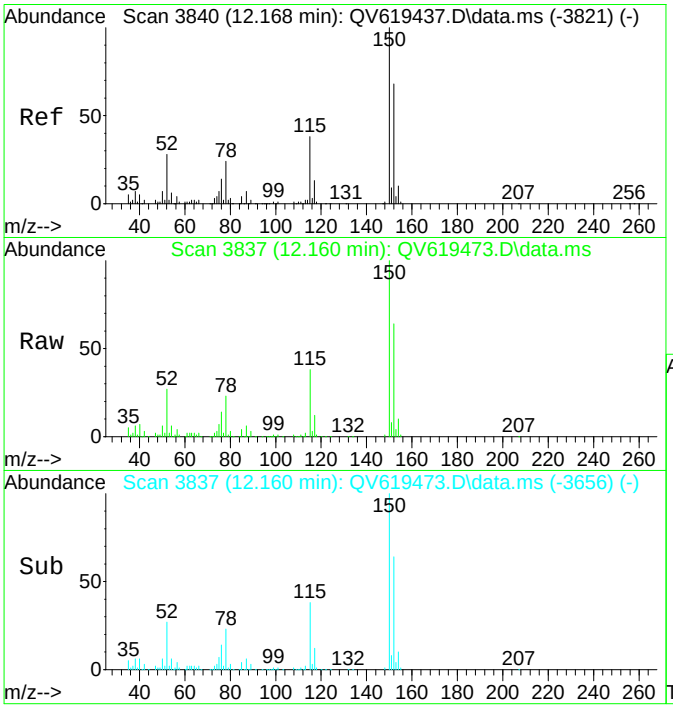


#53
Toluene-d8 (SURR)
Concen: 9.74 ppb
RT: 7.681 min Scan# 2227
Delta R.T. 0.003 min
Lab File: QV619473.D
Acq: 8 Jun 2020 5:58 pm

Tgt Ion: 98 Resp: 279093

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	65.5	44.2	91.8

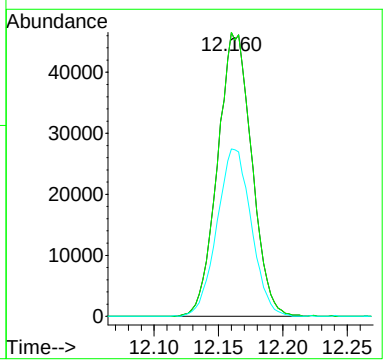


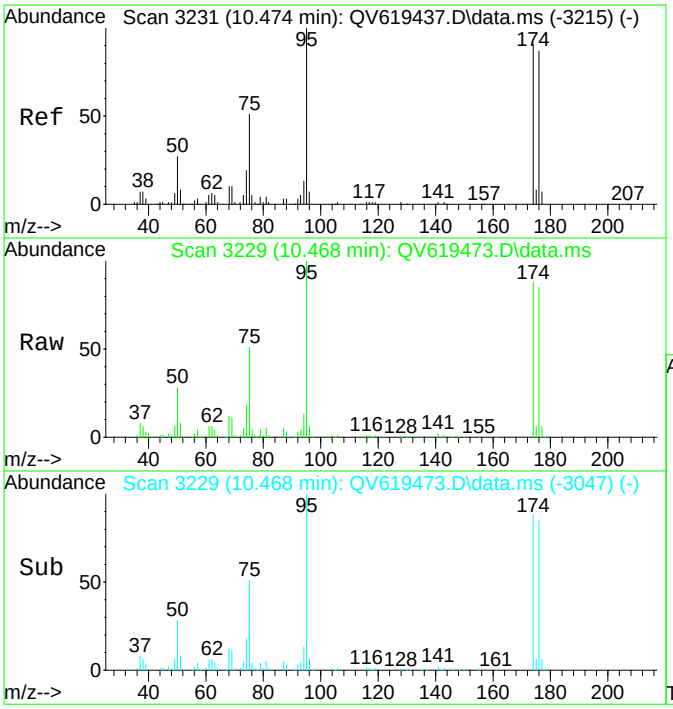


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 12.160 min Scan# 3837
Delta R.T. 0.003 min
Lab File: QV619473.D
Acq: 8 Jun 2020 5:58 pm

Tgt Ion:152 Resp: 85704

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	59.3	29.8	89.3

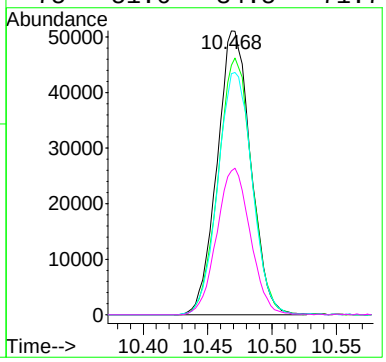




#73
p-Bromofluorobenzene (SURR)
Concen: 9.57 ppb
RT: 10.468 min Scan# 3229
Delta R.T. 0.005 min
Lab File: QV619473.D
Acq: 8 Jun 2020 5:58 pm

Tgt Ion: 95 Resp: 92805

Ion	Ratio	Lower	Upper
95	100		
174	90.1	62.5	129.9
176	87.1	60.7	126.1
75	51.6	34.5	71.7



FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Calibration: YF00003
Instrument: QVOA9
Calibration Date: 05/20/20 11:33

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1,1,2-Tetrachloroethane	0.5	0.2249166	2	0.2704158	4	0.249557	10	0.2399798	20	0.2668058	40	0.274315
1,1,1-Trichloroethane	0.5	1.691079	2	2.188959	4	1.961361	10	1.871786	20	1.988494	40	2.119924
1,1,2,2-Tetrachloroethane	0.5	0.4121307	2	0.4445713	4	0.4254077	10	0.3936871	20	0.4456831	40	0.4593023
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	0.5	0.7966931	2	0.8702704	4	0.7161484	10	0.7191759	20	0.8309347	40	0.8230517
1,1,2-Trichloroethane	0.5	0.1616608	2	0.1742017	4	0.1705108	10	0.1627232	20	0.1767411	40	0.1794921
1,1-Dichloroethane	0.5	1.597879	2	2.062328	4	1.756223	10	1.700096	20	1.832344	40	1.883692
1,1-Dichloroethylene	0.5	1.174756	2	1.468704	4	1.308101	10	1.238065	20	1.357679	40	1.393968
1,1-Dichloropropylene	0.5	1.344083	2	1.61643	4	1.349677	10	1.297086	20	1.455665	40	1.49976
1,2,3-Trichlorobenzene	0.5	0.3962945	2	0.5325929	4	0.4940551	10	0.4728428	20	0.5080878	40	0.5384197
1,2,3-Trichloropropane	0.5	0.1047684	2	0.1485993	4	0.1366398	10	0.1334222	20	0.1489364	40	0.1521452
1,2,4,5-Tetramethylbenzene	0.5	2.528484	2	2.580914	4	2.195975	10	2.355028	20	2.680496	40	2.665454
1,2,4-Trichlorobenzene	0.5	0.5626914	2	0.7320187	4	0.6602749	10	0.6248472	20	0.6809442	40	0.7141582
1,2,4-Trimethylbenzene	0.5	2.574042	2	3.221996	4	2.917712	10	2.650863	20	2.91252	40	3.047261
1,2-Dibromo-3-chloropropane	0.5	8.269137E-02	2	0.1009695	4	9.594453E-02	10	9.760534E-02	20	0.1078128	40	0.1082115
1,2-Dibromoethane	0.5	0.1346962	2	0.1690319	4	0.1561629	10	0.1541681	20	0.1730287	40	0.1746543
1,2-Dichlorobenzene	0.5	1.006104	2	1.235197	4	1.101566	10	1.038541	20	1.101806	40	1.149104
1,2-Dichloroethane	0.5	1.228931	2	1.419318	4	1.371711	10	1.303818	20	1.403044	40	1.462574
1,2-Dichloropropane	0.5	0.2253607	2	0.2548504	4	0.2402252	10	0.2235687	20	0.2383267	40	0.247229
1,3,5-Trimethylbenzene	0.5	2.506095	2	3.246666	4	2.871854	10	2.687851	20	2.891826	40	3.008439
1,3-Dichlorobenzene	0.5	1.189664	2	1.42071	4	1.298868	10	1.197177	20	1.313678	40	1.371013
1,3-Dichloropropane	0.5	0.2881089	2	0.3286781	4	0.3032795	10	0.2884622	20	0.3127857	40	0.3237603
1,4-Dichlorobenzene	0.5	1.197777	2	1.396684	4	1.290084	10	1.204842	20	1.276853	40	1.342434
1,4-Dioxane	10	3.362645E-04	40	7.726625E-04	80	8.347998E-04	200	8.830321E-04	400	9.837548E-04	800	8.481721E-04
2,2-Dichloropropane	0.5	1.604041	2	1.928399	4	1.663512	10	1.549079	20	1.608871	40	1.595717
2-Butanone	0.5	5.584297E-02	2	6.902064E-02	4	0.064989	10	6.148956E-02	20	6.925789E-02	40	6.749936E-02
2-Chlorotoluene	0.5	2.264417	2	2.774087	4	2.432711	10	2.267879	20	2.456602	40	2.599032
2-Hexanone	0.5	8.235309E-02	2	8.685239E-02	4	8.604508E-02	10	7.808047E-02	20	8.553619E-02	40	8.511179E-02
4-Chlorotoluene	0.5	2.58707	2	3.217211	4	2.833075	10	2.649438	20	2.850005	40	3.050487
4-Methyl-2-pentanone	0.5	9.399546E-02	2	0.1201474	4	0.1154182	10	0.1098021	20	0.1262647	40	0.1319374
Acetone	0.5	0.1682992	2	0.1534308	4	0.1308869	10	0.1298571	20	0.1259822	40	0.1288258
Acrolein	0.5	4.839724E-02	2	5.910369E-02	0.4	0.5325117	10	5.383112E-02	20	5.608745E-02	40	5.571173E-02

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

Client: Chazen Environmental Services (Poughkeepsie)

Calibration: YF00003

SDG: 20F0067

Project: 41103.20 Kingston CVS

Instrument: QVOA9

Calibration Date: 05/20/20 11:33

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acrylonitrile	0.5	1.745895E-02	2	0.0282915	4	2.930538E-02	10	2.492323E-02	20	2.826369E-02	40	2.903478E-02
Benzene	0.5	3.447886	2	4.317521	4	3.804309	10	3.630891	20	3.907668	40	4.077927
Bromobenzene	0.5	1.103696	2	1.416347	4	1.315666	10	1.223469	20	1.359155	40	1.429514
Bromochloromethane	0.5	0.6059283	2	0.7545174	4	0.643073	10	0.6310246	20	0.6599927	40	0.6571045
Bromodichloromethane	0.5	0.3007982	2	0.3907556	4	0.3524313	10	0.3456168	20	0.3768549	40	0.3894099
Bromoform	0.5	8.584263E-02	2	0.1041251	4	0.1062043	10	0.1073806	20	0.1225589	40	0.1296856
Bromomethane	0.5		2	0.0512431	4	6.111818E-02	10	5.859623E-02	20	0.0928084	40	0.1539313
Carbon disulfide	0.5	1.935376	2	2.195759	4	2.010099	10	1.846444	20	2.075989	40	2.228065
Carbon tetrachloride	0.5	1.384777	2	1.769695	4	1.642387	10	1.549681	20	1.728245	40	1.784528
Chlorobenzene	0.5	0.6277996	2	0.7927645	4	0.6960027	10	0.6659482	20	0.7249831	40	0.7397942
Chloroethane	0.5	0.4668986	2	0.3716369	4	0.3887116	10	0.307029	20	0.3458926	40	0.3765866
Chloroform	0.5	1.738321	2	2.249556	4	1.973678	10	1.898391	20	2.021145	40	2.111892
Chloromethane	0.5	0.5242821	2	0.4479874	4	0.4713309	10	0.3779409	20	0.4690598	40	0.5646395
cis-1,2-Dichloroethylene	0.5	1.454356	2	1.795432	4	1.577288	10	1.502697	20	1.607053	40	1.684833
cis-1,3-Dichloropropylene	0.5	0.3684952	2	0.4403375	4	0.3938231	10	0.3867419	20	0.4253728	40	0.434006
Cyclohexane	0.5	3.201022	2	3.9428	4	3.312731	10	3.323545	20	3.559856	40	3.693222
Dibromochloromethane	0.5	0.1661337	2	0.2038579	4	0.2021787	10	0.1981935	20	0.2258653	40	0.2362443
Dibromomethane	0.5	0.1104597	2	0.1233615	4	0.1186911	10	0.1139186	20	0.1263138	40	0.1269179
Dichlorodifluoromethane	0.5	0.9077371	2	0.9598878	4	0.8598074	10	0.6574135	20	0.8302271	40	0.759877
Ethyl Benzene	0.5	1.207095	2	1.51829	4	1.319844	10	1.242623	20	1.354234	40	1.388508
Hexachlorobutadiene	0.5	0.3671185	2	0.4472454	4	0.405508	10	0.3799649	20	0.3990908	40	0.4265841
Isopropylbenzene	0.5	3.063091	2	3.858816	4	3.429942	10	3.107874	20	3.421492	40	3.632174
Methyl acetate	0.5	0.3074573	2	0.2559833	4	0.2326565	10	0.2346324	20	0.2608923	40	0.2536782
Methyl tert-butyl ether (MTBE)	0.5	2.099439	2	2.608622	4	2.348019	10	2.356507	20	2.475028	40	2.601356
Methylcyclohexane	0.5	0.4453285	2	0.4516308	4	0.3650817	10	0.3784983	20	0.4220792	40	0.419992
Methylene chloride	0.5	1.314942	2	1.223898	4	1.048804	10	1.000057	20	1.074556	40	1.095574
Naphthalene	0.5	~~1.442964~~	2	1.284315	4	1.207171	10	1.112528	20	1.208633	40	1.239473
n-Butylbenzene	0.5	3.103891	2	3.536123	4	3.194334	10	3.047253	20	3.207362	40	3.322262
n-Propylbenzene	0.5	3.671107	2	4.455123	4	4.02184	10	3.664961	20	4.01542	40	4.230765
o-Xylene	0.5	1.010063	2	1.24345	4	1.093559	10	1.040517	20	1.126044	40	1.152961
p- & m- Xylenes	1	0.993519	4	1.214014	8	1.074161	20	1.016715	40	1.118139	80	1.127573

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Calibration: YF00003
Instrument: QVOA9
Calibration Date: 05/20/20 11:33

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
p-Diethylbenzene	0.5	1.570902	2	1.594562	4	1.348974	10	1.394361	20	1.515691	40	1.542633
p-Ethyltoluene	0.5	2.9357	2	3.183896	4	2.583808	10	2.698848	20	3.054495	40	3.115711
p-Isopropyltoluene	0.5	2.57763	2	3.330204	4	2.923867	10	2.709868	20	2.934942	40	3.020833
sec-Butylbenzene	0.5	2.875397	2	3.777972	4	3.25462	10	3.069314	20	3.277536	40	3.407228
Styrene	0.5	0.7288058	2	0.8588576	4	0.7804912	10	0.7390107	20	0.8077299	40	0.8056787
SURR: 1,2-Dichloroethane-d4	10	1.375714	10	1.364194	10	1.348167	10	1.359915	10	1.371326	10	1.359534
SURR: p-Bromofluorobenzene	10	1.349675	10	1.385924	10	1.378288	10	1.314804	10	1.377752	10	1.371553
SURR: Toluene-d8	10	1.303409	10	1.296403	10	1.270117	10	1.263218	10	1.274282	10	1.267643
tert-Butyl alcohol (TBA)	0.5	0.1102738	2	7.104383E-02	4	6.671284E-02	10	6.095023E-02	20	5.804717E-02	40	6.192423E-02
tert-Butylbenzene	0.5	2.379717	2	3.071366	4	2.715699	10	2.503652	20	2.770495	40	2.879541
Tetrachloroethylene	0.5	0.2369713	2	0.2849554	4	0.2523314	10	0.239805	20	0.2576068	40	0.2632622
Toluene	0.5	1.033094	2	1.216879	4	1.082846	10	1.030276	20	1.118208	40	1.129814
trans-1,2-Dichloroethylene	0.5	1.087333	2	1.41819	4	1.24935	10	1.178847	20	1.264276	40	1.322177
trans-1,3-Dichloropropylene	0.5	0.3150418	2	0.3737474	4	0.3494437	10	0.3444205	20	0.3755569	40	0.3859079
trans-1,4-dichloro-2-butene	0.5	0.3511263	2	0.3808974	4	0.365853	10	0.3262986	20	0.3510127	40	0.3448775
Trichloroethylene	0.5	0.245949	2	0.2889469	4	0.2618954	10	0.2490108	20	0.2699663	40	0.2810899
Trichlorofluoromethane	0.5	1.355123	2	1.573644	4	1.323977	10	1.160085	20	1.317915	40	1.365677
Vinyl acetate	0.5	0.2290204	2	0.2627494	0.4	3.213092	10	0.4074389	20	0.5250949	40	0.5905422
Vinyl Chloride	0.5	0.6829531	2	0.8168051	4	0.7410658	10	0.6658778	20	0.7702264	40	0.7529176

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Calibration: YF00003
Instrument: QVOA9
Calibration Date: 05/20/20 11:33

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1,1,2-Tetrachloroethane	80	0.2697712	120	0.28072	160	0.2671735						
1,1,1-Trichloroethane	80	2.134052	120	2.120498	160	2.088587						
1,1,2,2-Tetrachloroethane	80	0.473058	120	0.4955133	160	0.4776723						
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	80	0.8194999	120	0.830606	160	0.8008131						
1,1,2-Trichloroethane	80	0.1773794	120	0.1820408	160	0.1758479						
1,1-Dichloroethane	80	1.754352	120	1.726885	160	1.739974						
1,1-Dichloroethylene	80	1.414349	120	1.450291	160	1.413733						
1,1-Dichloropropylene	80	1.506509	120	1.510658	160	1.489733						
1,2,3-Trichlorobenzene	80	0.5545341	120	0.5849845	160	0.5672798						
1,2,3-Trichloropropane	80	0.1563154	120	0.1634604	160	0.1560976						
1,2,4,5-Tetramethylbenzene	80	2.634143	120	2.774072	160	2.690277						
1,2,4-Trichlorobenzene	80	0.735458	120	0.7807507	160	0.7580852						
1,2,4-Trimethylbenzene	80	2.973876	120	3.167564	160	3.017277						
1,2-Dibromo-3-chloropropane	80	0.11079	120	0.1183169	160	0.1154284						
1,2-Dibromoethane	80	0.1712794	120	0.1771993	160	0.1700035						
1,2-Dichlorobenzene	80	1.124258	120	1.165244	160	1.114873						
1,2-Dichloroethane	80	1.479615	120	1.449543	160	1.433934						
1,2-Dichloropropane	80	0.2506875	120	0.2582214	160	0.2461166						
1,3,5-Trimethylbenzene	80	3.012221	120	3.180137	160	3.030074						
1,3-Dichlorobenzene	80	1.344862	120	1.407401	160	1.356523						
1,3-Dichloropropane	80	0.3147981	120	0.3288934	160	0.3124924						
1,4-Dichlorobenzene	80	1.309068	120	1.383282	160	1.327774						
1,4-Dioxane	1600	6.324213E-04	2400	7.790871E-04	3200							
2,2-Dichloropropane	80	1.573785	120	1.485119	160	1.456585						
2-Butanone	80	6.818643E-02	120	6.625226E-02	160	6.708128E-02						
2-Chlorotoluene	80	2.600127	120	2.74635	160	2.687568						
2-Hexanone	80	8.531817E-02	120	8.592048E-02	160	8.124481E-02						
4-Chlorotoluene	80	3.041642	120	3.21004	160	3.059774						
4-Methyl-2-pentanone	80	0.1261967	120	0.1368687	160	0.1234297						
Acetone	80	0.1337847	120	0.1351903	160	0.1376001						
Acrolein	80	5.943079E-02	120	6.013829E-02	160	0.0582891						

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Calibration: YF00003 Instrument: QVOA9

Calibration Date: 05/20/20 11:33

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acrylonitrile	80	2.848659E-02	120	2.380828E-02	160	2.372625E-02						
Benzene	80	4.142744	120	4.045751	160	4.01699						
Bromobenzene	80	1.455203	120	1.55497	160	1.507039						
Bromochloromethane	80	0.6344023	120	0.6101274	160	0.614722						
Bromodichloromethane	80	0.4089014	120	0.4169465	160	0.4129668						
Bromoform	80	0.1289637	120	0.1328244	160	0.1262072						
Bromomethane	80	0.2325857	120	0.302037	160	0.3723322						
Carbon disulfide	80	2.2995	120	2.271197	160	2.298779						
Carbon tetrachloride	80	1.814339	120	1.811191	160	1.772973						
Chlorobenzene	80	0.7236469	120	0.7413706	160	0.7133439						
Chloroethane	80	0.4040266	120	0.40133	160	0.4196583						
Chloroform	80	2.173758	120	2.098781	160	2.097509						
Chloromethane	80	0.676418	120	0.7517439	160	0.7887999						
cis-1,2-Dichloroethylene	80	1.688523	120	1.661281	160	1.660416						
cis-1,3-Dichloropropylene	80	0.4344646	120	0.4417597	160	0.4319334						
Cyclohexane	80	3.703805	120	3.635657	160	3.520096						
Dibromochloromethane	80	0.2381631	120	0.2434831	160	0.2380285						
Dibromomethane	80	0.130478	120	0.1283298	160	0.1171096						
Dichlorodifluoromethane	80	0.7665983	120	0.7614782	160	0.7241778						
Ethyl Benzene	80	1.329305	120	1.380727	160	1.293878						
Hexachlorobutadiene	80	0.4364086	120	0.4694019	160	0.4502284						
Isopropylbenzene	80	3.645844	120	3.819872	160	3.67966						
Methyl acetate	80	0.2831676	120	0.2868343	160	0.2721338						
Methyl tert-butyl ether (MTBE)	80	2.658277	120	2.61464	160	2.580407						
Methylcyclohexane	80	0.4181697	120	0.4346435	160	0.4047168						
Methylene chloride	80	1.100444	120	1.088202	160	1.091325						
Naphthalene	80	1.290198	120	1.338657	160	1.300572						
n-Butylbenzene	80	3.334389	120	3.454147	160	3.362785						
n-Propylbenzene	80	4.228634	120	4.39931	160	4.094807						
o-Xylene	80	1.093889	120	1.121325	160	1.074462						
p- & m- Xylenes	160	1.074136	240	1.090553	320	0.9699211						

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Calibration: YF00003 Instrument: QVOA9

Calibration Date: 05/20/20 11:33

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
p-Diethylbenzene	80	1.524263	120	1.607667	160	1.561697						
p-Ethyltoluene	80	3.105114	120	3.230514	160	3.12776						
p-Isopropyltoluene	80	2.952199	120	3.107556	160	2.97772						
sec-Butylbenzene	80	3.382481	120	3.514355	160	3.32095						
Styrene	80	0.7636812	120	0.7805383	160	0.7444926						
SURR: 1,2-Dichloroethane-d4	10	1.421428	10	1.333779	10	1.36471						
SURR: p-Bromofluorobenzene	10	1.433959	10	1.488768	10	1.48102						
SURR: Toluene-d8	10	1.330064	10	1.323401	10	1.328691						
tert-Butyl alcohol (TBA)	80	6.150204E-02	120	6.497884E-02	160	6.582663E-02						
tert-Butylbenzene	80	2.8693	120	3.023378	160	2.859699						
Tetrachloroethylene	80	0.2594799	120	0.2692165	160	0.2618304						
Toluene	80	1.152751	120	1.164392	160	1.142013						
trans-1,2-Dichloroethylene	80	1.355827	120	1.342229	160	1.34674						
trans-1,3-Dichloropropylene	80	0.3805681	120	0.3914159	160	0.3775796						
trans-1,4-dichloro-2-butene	80	0.4001923	120	0.3655288	160	0.3390938						
Trichloroethylene	80	0.2888786	120	0.2995153	160	0.2937672						
Trichlorofluoromethane	80	1.495438	120	1.559456	160	1.525485						
Vinyl acetate	80	0.6901993	120	0.7387401	160	0.7441319						
Vinyl Chloride	80	0.8080845	120	0.8272866	160	0.8235163						

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Calibration: YF00003 Instrument: QVOA9

Calibration Date: 05/20/20 11:33

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.2604061	7.022362	8.918333	1.291055E-02			20	
1,1,1-Trichloroethane	2.018304	7.851718	5.14	3.230323E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.4474473	7.350949	10.19878	3.386455E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.8007992	6.445401	3.003333	0.1270522			SPCC (0.1)	
1,1,2-Trichloroethane	0.1733998	4.106156	7.771	0.0308584			SPCC (0.1)	
1,1-Dichloroethane	1.783753	7.370389	4.124667	6.862098E-02			SPCC (0.2)	
1,1-Dichloroethylene	1.357738	7.309747	2.988333	6.638321E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.452178	7.02602	5.288333	3.440682E-02			20	
1,2,3-Trichlorobenzene	0.5165657	11.11744	14.20133	1.059321E-02			20	
1,2,3-Trichloropropane	0.1444872	12.21429	10.269	1.923635E-02			20	
1,2,4,5-Tetramethylbenzene	2.567205	7.148501	12.66578	1.735758E-02			20	
1,2,4-Trichlorobenzene	0.6943587	9.995228	13.65422	1.164207E-02			SPCC (0.2)	
1,2,4-Trimethylbenzene	2.942568	7.295186	10.976	0.0204235			20	
1,2-Dibromo-3-chloropropane	0.1041967	10.63646	12.69089	1.376563E-02			SPCC (0.05)	
1,2-Dibromoethane	0.1644694	8.321221	8.305333	1.309537E-02			SPCC (0.1)	
1,2-Dichlorobenzene	1.115188	6.038602	11.80533	8.924921E-03			SPCC (0.4)	
1,2-Dichloroethane	1.394721	5.852777	5.500667	3.249811E-02			SPCC (0.1)	
1,2-Dichloropropane	0.2427318	4.995875	6.334333	3.013278E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	2.93724	7.879113	10.55856	2.601482E-02			20	
1,3-Dichlorobenzene	1.322211	6.262512	11.297	2.157248E-02			SPCC (0.6)	
1,3-Dichloropropane	0.311251	4.959592	7.939667	0.0211408			20	
1,4-Dichlorobenzene	1.3032	5.356614	11.41467	2.814594E-02			SPCC (0.5)	
1,4-Dioxane	7.587743E-04	26.11777	6.40075	0.1154129		0.9829462	0.99	*
2,2-Dichloropropane	1.607234	8.478873	4.663667	4.466918E-02			20	
2-Butanone	6.551327E-02	6.618318	4.613778	0.1551791			SPCC (0.1)	
2-Chlorotoluene	2.53653	7.565479	10.45033	4.106822E-02			20	
2-Hexanone	8.405139E-02	3.434367	7.969222	4.908658E-02			SPCC (0.1)	
4-Chlorotoluene	2.944305	7.735668	10.58467	2.972781E-02			20	
4-Methyl-2-pentanone	0.1204512	10.64761	7.123	1.931341E-02			SPCC (0.1)	
Acetone	0.1382063	9.996766	3.003	7.139892E-02			SPCC (0.1)	
Acrolein	0.1092779	145.2756	2.871222	8.529602E-02		0.9990539	0.99	
Acrylonitrile	2.592207E-02	14.98573	3.721111	0.1723462			20	

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Calibration: YF00003 Instrument: QVOA9

Calibration Date: 05/20/20 11:33

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	3.93241	6.826017	5.468	3.079447E-02			SPCC (0.5)	
Bromobenzene	1.373895	10.33409	10.23433	2.151485E-02			20	
Bromochloromethane	0.6456547	6.998076	4.870333	3.139362E-02			20	
Bromodichloromethane	0.3771868	10.11515	6.579667	2.532368E-02			SPCC (0.2)	
Bromoform	0.1159769	13.65483	9.699778	0.024531			SPCC (0.1)	
Bromomethane	0.1655815	74.56925	2.12775	0.111581		0.9999029	SPCC (0.1)	
Carbon disulfide	2.129023	7.906121	3.217667	2.284435E-02			SPCC (0.1)	
Carbon tetrachloride	1.695313	8.564299	5.302333	3.202039E-02			SPCC (0.1)	
Chlorobenzene	0.7139615	6.624561	8.826333	0.0195148			SPCC (0.5)	
Chloroethane	0.3868634	11.69575	2.237333	7.217376E-02			SPCC (0.1)	
Chloroform	2.040337	7.544285	4.961333	2.633345E-02			SPCC (0.2)	
Chloromethane	0.563578	25.53462	1.711	8.726532E-02		0.9992444	SPCC (0.1)	
cis-1,2-Dichloroethylene	1.625764	6.373878	4.649	4.446784E-02			SPCC (0.1)	
cis-1,3-Dichloropropylene	0.4174371	6.477318	7.007444	3.076509E-02			SPCC (0.2)	
Cyclohexane	3.543637	6.586324	5.243222	2.942988E-02			SPCC (0.1)	
Dibromochloromethane	0.2169053	11.94876	8.174333	2.914644E-02			SPCC (0.1)	
Dibromomethane	0.1217311	5.730512	6.415667	3.416978E-02			20	
Dichlorodifluoromethane	0.8030227	11.80316	1.543667	6.706207E-02			SPCC (0.1)	
Ethyl Benzene	1.337167	6.778433	8.931333	2.139307E-02			SPCC (0.1)	
Hexachlorobutadiene	0.4201723	8.18215	13.838	2.761315E-02			20	
Isopropylbenzene	3.517641	8.134415	9.89	2.471679E-02			SPCC (0.1)	
Methyl acetate	0.2652706	9.286026	3.316667	0.1054144			SPCC (0.1)	
Methyl tert-butyl ether (MTBE)	2.482477	7.382898	3.724	5.481303E-02			SPCC (0.1)	
Methylcyclohexane	0.4155712	6.942801	6.354333	2.745403E-02			SPCC (0.1)	
Methylene chloride	1.115311	8.560883	3.448333	6.766401E-02			SPCC (0.1)	
Naphthalene	1.247693	5.725576	13.94138	2.266542E-02			20	
n-Butylbenzene	3.284727	4.874882	11.80389	3.014796E-02			20	
n-Propylbenzene	4.086885	6.88983	10.35333	2.206552E-02			20	
o-Xylene	1.106252	6.107693	9.483778	2.990546E-02			SPCC (0.3)	
p- & m- Xylenes	1.075415	6.994899	9.072333	3.437831E-02			SPCC (0.1)	
p-Diethylbenzene	1.517861	5.851918	11.77767	3.155777E-02			20	
p-Ethyltoluene	3.003983	7.430487	10.49367	2.620843E-02			20	

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Calibration: YF00003 Instrument: QVOA9

Calibration Date: 05/20/20 11:33

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
p-Isopropyltoluene	2.948313	7.317664	11.343	3.891456E-02			20	
sec-Butylbenzene	3.319984	7.720669	11.166	2.289142E-02			20	
Styrene	0.7788095	5.267299	9.502667	3.557825E-02			SPCC (0.3)	
SURR: 1,2-Dichloroethane-d4	1.36653	1.760904	5.427889	4.468882E-02			20	
SURR: p-Bromofluorobenzene	1.397971	4.180579	10.08133	2.052588E-02			20	
SURR: Toluene-d8	1.295248	2.123172	7.287222	0.0157495			20	
tert-Butyl alcohol (TBA)	6.902885E-02	23.07787	3.539222	0.1333025	0.99953		0.99	
tert-Butylbenzene	2.785872	8.114964	10.91133	3.332204E-02			20	
Tetrachloroethylene	0.2583843	5.643703	7.904	3.237928E-02			SPCC (0.2)	
Toluene	1.118919	5.471598	7.357333	0.038361			SPCC (0.4)	
trans-1,2-Dichloroethylene	1.284997	7.939397	3.727889	3.327085E-02			SPCC (0.1)	
trans-1,3-Dichloropropylene	0.3659646	6.746364	7.567333	6.52803E-03			SPCC (0.1)	
trans-1,4-dichloro-2-butene	0.35832	6.281317	10.26578	3.400886E-02			20	
Trichloroethylene	0.2754466	7.137462	6.1	2.143383E-02			SPCC (0.2)	
Trichlorofluoromethane	1.408533	9.819732	2.489	5.863612E-02			SPCC (0.1)	
Vinyl acetate	0.8223344	111.4998	4.114	5.454296E-02		0.9986948	0.99	
Vinyl Chloride	0.7654148	7.885733	1.812222	8.905752E-02			SPCC (0.1)	

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Calibration: YF00005
Instrument: QVOA6
Calibration Date: 05/18/20 12:40

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1,1,2-Tetrachloroethane	0.5	0.2718409	2	0.3524493	4	0.3802955	10	0.3540831	20	0.3346139	40	0.3861729
1,1,1-Trichloroethane	0.5	1.581672	2	2.043155	4	2.181623	10	1.954397	20	1.869306	40	2.163761
1,1,2,2-Tetrachloroethane	0.5	0.5805437	2	0.7344567	4	0.766045	10	0.7432747	20	0.6868533	40	0.7570321
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	0.5	0.8987814	2	0.9769039	4	0.8480851	10	0.942582	20	0.9554679	40	1.052733
1,1,2-Trichloroethane	0.5	0.2022861	2	0.2558703	4	0.2752873	10	0.2573339	20	0.241211	40	0.2757623
1,1-Dichloroethane	0.5	2.013806	2	2.472675	4	2.667619	10	2.404924	20	2.292089	40	2.610495
1,1-Dichloroethylene	0.5	1.545045	2	1.978175	4	2.084343	10	1.844358	20	1.759983	40	1.985745
1,1-Dichloropropylene	0.5	1.346763	2	1.677114	4	1.783822	10	1.602042	20	1.555062	40	1.737668
1,2,3-Trichlorobenzene	0.5	0.5218069	2	0.6479921	4	0.6791437	10	0.6598673	20	0.6204436	40	0.6884272
1,2,3-Trichloropropane	0.5	0.1569564	2	0.2103807	4	0.2123191	10	0.2127037	20	0.1945817	40	0.2140076
1,2,4,5-Tetramethylbenzene	0.5	2.018498	2	2.123609	4	2.166735	10	2.345879	20	2.268791	40	2.395038
1,2,4-Trichlorobenzene	0.5	0.6156396	2	0.7628067	4	0.8206281	10	0.7880145	20	0.7389371	40	0.8079027
1,2,4-Trimethylbenzene	0.5	2.333874	2	2.974725	4	3.158051	10	3.035951	20	2.825581	40	2.985196
1,2-Dibromo-3-chloropropane	0.5	8.359635E-02	2	0.1145686	4	0.1202062	10	0.1177523	20	0.122283	40	0.1334053
1,2-Dibromoethane	0.5	0.2052222	2	0.2536416	4	0.2713432	10	0.2576616	20	0.2376743	40	0.2725043
1,2-Dichlorobenzene	0.5	1.272468	2	1.584343	4	1.649953	10	1.591204	20	1.473045	40	1.580793
1,2-Dichloroethane	0.5	1.384095	2	1.643565	4	1.746528	10	1.620964	20	1.536646	40	1.757446
1,2-Dichloropropane	0.5	0.329044	2	0.4054013	4	0.4379618	10	0.4013344	20	0.3750416	40	0.4339496
1,3,5-Trimethylbenzene	0.5	2.36312	2	2.956829	4	3.142508	10	3.035808	20	2.855422	40	3.012171
1,3-Dichlorobenzene	0.5	1.368738	2	1.718037	4	1.803186	10	1.753513	20	1.622543	40	1.728911
1,3-Dichloropropane	0.5	0.3534438	2	0.4379358	4	0.466782	10	0.4336136	20	0.4022763	40	0.462776
1,4-Dichlorobenzene	0.5	1.38458	2	1.697005	4	1.818852	10	1.754727	20	1.63369	40	1.748924
1,4-Dioxane	10	9.061364E-04	40	7.557243E-04	80	9.189992E-04	200	1.001867E-03	400	9.320813E-04	800	9.834141E-04
2,2-Dichloropropane	0.5	1.287948	2	1.48394	4	1.488138	10	1.260515	20	1.157496	40	1.288117
2-Butanone	0.5		2	9.623364E-02	4	0.1039256	10	9.173471E-02	20	8.497855E-02	40	9.518111E-02
2-Chlorotoluene	0.5	2.228586	2	3.007626	4	3.150495	10	3.10724	20	2.92841	40	3.099345
2-Hexanone	0.5	0.1344524	2	0.2299964	4	0.2323019	10	0.2176753	20	0.2028385	40	0.2270836
4-Chlorotoluene	0.5	2.47182	2	3.12779	4	3.274803	10	3.168669	20	2.984589	40	3.150028
4-Methyl-2-pentanone	0.5	0.2817629	2	0.3237318	4	0.3341651	10	0.3122507	20	0.2913055	40	0.3393462
Acetone	0.5	0.5444812	2	0.347942	4	0.2954578	10	0.2629658	20	0.243925	40	0.2666534
Acrolein	0.5	0.1218567	2	9.685166E-02	4	0.1156788	10	0.103109	20	9.559753E-02	40	9.478223E-02

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Calibration: YF00005
Instrument: QVOA6
Calibration Date: 05/18/20 12:40

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acrylonitrile	0.5	0.207086	2	0.2366112	4	0.2811732	10	0.2571993	20	0.2404625	40	0.269702
Benzene	0.5	3.822639	2	4.710416	4	5.096693	10	4.57746	20	4.367953	40	4.884936
Bromobenzene	0.5	1.222261	2	1.692762	4	1.796433	10	1.613156	20	1.616804	40	1.760001
Bromochloromethane	0.5	1.023103	2	1.209984	4	1.305692	10	1.145026	20	1.077181	40	1.18238
Bromodichloromethane	0.5	0.3690354	2	0.4696762	4	0.510747	10	0.4813122	20	0.4539187	40	0.5370187
Bromoform	0.5	0.1443744	2	0.172049	4	0.1876279	10	0.1826659	20	0.1748479	40	0.2029114
Bromomethane	0.5	0.387758	2	0.4584783	4	0.5436768	10	0.4994092	20	0.5413277	40	0.6428904
Carbon disulfide	0.5	2.330774	2	2.643423	4	2.806036	10	2.500397	20	2.421911	40	2.707338
Carbon tetrachloride	0.5	1.310488	2	1.721611	4	1.831377	10	1.651965	20	1.604187	40	1.845457
Chlorobenzene	0.5	0.7695579	2	0.960026	4	1.03031	10	0.9509701	20	0.8862922	40	0.9985558
Chloroethane	0.5	0.7730506	2	0.7756079	4	0.8580302	10	0.7344949	20	0.7402489	40	0.8022917
Chloroform	0.5	1.753539	2	2.186888	4	2.388209	10	2.167369	20	2.070826	40	2.351141
Chloromethane	0.5	1.551384	2	1.349831	4	1.458846	10	1.214612	20	1.264976	40	1.330038
cis-1,2-Dichloroethylene	0.5	1.864831	2	2.198895	4	2.431786	10	2.143721	20	2.036085	40	2.287718
cis-1,3-Dichloropropylene	0.5	0.4494234	2	0.5439165	4	0.5894484	10	0.5431975	20	0.5008611	40	0.5819439
Cyclohexane	0.5	2.157146	2	2.131178	4	2.059797	10	2.094486	20	2.339932	40	2.311191
Dibromochloromethane	0.5	0.2350892	2	0.2971662	4	0.3203737	10	0.3125367	20	0.2950651	40	0.3487464
Dibromomethane	0.5	0.1488291	2	0.1848835	4	0.1955677	10	0.1829727	20	0.1718725	40	0.1988945
Dichlorodifluoromethane	0.5	0.7881947	2	0.9033602	4	0.8169391	10	0.7143033	20	0.7867659	40	0.7881836
Ethyl Benzene	0.5	1.343107	2	1.672584	4	1.781801	10	1.650862	20	1.552498	40	1.710011
Hexachlorobutadiene	0.5	0.1201545	2	0.1633356	4	0.1763929	10	0.1695048	20	0.165241	40	0.1709265
Isopropylbenzene	0.5	3.018974	2	3.932353	4	4.13182	10	3.98288	20	3.780491	40	4.007779
Methyl acetate	0.5	0.7367754	2	0.5854361	4	0.5662339	10	0.565715	20	0.540491	40	0.5669364
Methyl tert-butyl ether (MTBE)	0.5	2.475171	2	3.014409	4	3.26301	10	2.924454	20	2.769729	40	3.115154
Methylcyclohexane	0.5	0.4939709	2	0.5472981	4	0.4758689	10	0.5454753	20	0.5455815	40	0.5911501
Methylene chloride	0.5	2.034233	2	1.833737	4	1.955555	10	1.731515	20	1.647242	40	1.836178
Naphthalene	0.5	2.042871	2	1.867536	4	1.944516	10	1.848556	20	1.706607	40	1.867094
n-Butylbenzene	0.5	2.049938	2	2.540865	4	2.649811	10	2.630406	20	2.529705	40	2.584279
n-Propylbenzene	0.5	3.396741	2	4.429617	4	4.673981	10	4.536526	20	4.285321	40	4.469596
o-Xylene	0.5	1.07815	2	1.338682	4	1.433458	10	1.309255	20	1.226726	40	1.353795
p- & m- Xylenes	1	1.04803	4	1.308556	8	1.391942	20	1.280947	40	1.208656	80	1.32648

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Calibration: YF00005
Instrument: QVOA6
Calibration Date: 05/18/20 12:40

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
p-Diethylbenzene	0.5	1.093089	2	1.17502	4	1.166167	10	1.272109	20	1.242324	40	1.259417
p-Ethyltoluene	0.5	2.723096	2	2.99262	4	2.937806	10	3.261035	20	3.212346	40	3.274727
p-Isopropyltoluene	0.5	2.22688	2	2.858311	4	2.999944	10	2.896299	20	2.756435	40	2.831845
sec-Butylbenzene	0.5	2.399191	2	3.152451	4	3.263794	10	3.168225	20	3.011719	40	3.083423
Styrene	0.5	0.7744176	2	0.9924837	4	1.082769	10	1.002039	20	0.9393212	40	1.043974
SURR: 1,2-Dichloroethane-d4	10	1.356713	10	1.346741	10	1.337082	10	1.357469	10	1.356435	10	1.414933
SURR: p-Bromofluorobenzene	10	1.146001	10	1.139106	10	1.150958	10	1.181637	10	1.178722	10	1.131172
SURR: Toluene-d8	10	1.385604	10	1.382975	10	1.370043	10	1.381073	10	1.388547	10	1.385471
tert-Butyl alcohol (TBA)	0.5	0.1348877	2	0.1081525	4	9.592435E-02	10	9.559666E-02	20	8.983853E-02	40	9.256938E-02
tert-Butylbenzene	0.5	2.443792	2	3.119181	4	3.278904	10	3.170314	20	2.980058	40	3.134527
Tetrachloroethylene	0.5	0.3095038	2	0.3888522	4	0.4177644	10	0.3831277	20	0.3679351	40	0.4215251
Toluene	0.5	1.371151	2	1.529304	4	1.615325	10	1.476081	20	1.390139	40	1.583469
trans-1,2-Dichloroethylene	0.5	1.489047	2	1.826762	4	1.983039	10	1.776941	20	1.700443	40	1.95099
trans-1,3-Dichloropropylene	0.5	0.3660994	2	0.4651931	4	0.4920835	10	0.4648736	20	0.4274299	40	0.4957693
trans-1,4-dichloro-2-butene	0.5	0.7767393	2	0.893057	4	0.9118159	10	0.900491	20	0.8254446	40	0.8993311
Trichloroethylene	0.5	0.309605	2	0.3798859	4	0.3963683	10	0.3697833	20	0.350744	40	0.4089576
Trichlorofluoromethane	0.5	1.415088	2	1.599862	4	1.688079	10	1.493625	20	1.534803	40	1.650037
Vinyl acetate	0.5	1.716208	2	1.571522	4	1.63971	10	1.51394	20	1.356639	40	1.459148
Vinyl Chloride	0.5	1.146721	2	1.216517	4	1.302121	10	1.101804	20	1.139462	40	1.216294

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Calibration: YF00005
Instrument: QVOA6
Calibration Date: 05/18/20 12:40

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1,1,2-Tetrachloroethane	80	0.3971517	120	0.4024568	160	0.4152485						
1,1,1-Trichloroethane	80	2.249418	120	2.243837	160	2.364385						
1,1,2,2-Tetrachloroethane	80	0.7323781	120	0.7087894	160	0.7351861						
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	80	1.12712	120	1.082857	160	1.163232						
1,1,2-Trichloroethane	80	0.28473	120	0.2903935	160	0.3011519						
1,1-Dichloroethane	80	2.548358	120	2.463152	160	2.529558						
1,1-Dichloroethylene	80	2.026866	120	1.994992	160	2.07798						
1,1-Dichloropropylene	80	1.816469	120	1.780945	160	1.866709						
1,2,3-Trichlorobenzene	80	0.7275443	120	0.7634364	160	0.8231591						
1,2,3-Trichloropropane	80	0.2069965	120	0.2038587	160	0.2127748						
1,2,4,5-Tetramethylbenzene	80	2.532451	120	2.546457	160	2.698584						
1,2,4-Trichlorobenzene	80	0.8575694	120	0.8967031	160	0.9708094						
1,2,4-Trimethylbenzene	80	3.062137	120	2.949869	160	3.103894						
1,2-Dibromo-3-chloropropane	80	0.1229693	120	0.1425635	160	0.1517366						
1,2-Dibromoethane	80	0.279386	120	0.2851696	160	0.2945179						
1,2-Dichlorobenzene	80	1.617944	120	1.597806	160	1.682422						
1,2-Dichloroethane	80	1.824806	120	1.848769	160	1.936929						
1,2-Dichloropropane	80	0.4499813	120	0.4617683	160	0.4775115						
1,3,5-Trimethylbenzene	80	3.087925	120	2.927465	160	3.082171						
1,3-Dichlorobenzene	80	1.783208	120	1.740886	160	1.847481						
1,3-Dichloropropane	80	0.4728239	120	0.4780764	160	0.4924662						
1,4-Dichlorobenzene	80	1.789279	120	1.754743	160	1.862015						
1,4-Dioxane	1600	1.129273E-03	2400	1.171641E-03	3200	1.22016E-03						
2,2-Dichloropropane	80	1.28023	120	1.228161	160	1.229189						
2-Butanone	80	0.1002108	120	0.100137	160	0.1045618						
2-Chlorotoluene	80	3.137065	120	2.982743	160	3.105094						
2-Hexanone	80	0.2317581	120	0.237455	160	0.2456616						
4-Chlorotoluene	80	3.206705	120	3.055334	160	3.208624						
4-Methyl-2-pentanone	80	0.3448815	120	0.3520173	160	0.3705727						
Acetone	80	0.2784085	120	0.2775188	160	0.3017949						
Acrolein	80	9.905202E-02	120	9.943266E-02	160	0.1082192						

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Calibration: YF00005 Instrument: QVOA6

Calibration Date: 05/18/20 12:40

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acrylonitrile	80	0.2835013	120	0.2830597	160	0.2991534						
Benzene	80	5.010438	120	4.900884	160	5.063082						
Bromobenzene	80	1.731302	120	1.667745	160	1.739808						
Bromochloromethane	80	1.185205	120	1.154989	160	1.175938						
Bromodichloromethane	80	0.5596811	120	0.5847296	160	0.6121088						
Bromoform	80	0.212719	120	0.2198956	160	0.2329423						
Bromomethane	80	0.7144291	120	0.7531678	160	0.8210378						
Carbon disulfide	80	2.805906	120	2.751187	160	2.851592						
Carbon tetrachloride	80	1.970116	120	1.955731	160	2.086103						
Chlorobenzene	80	1.023009	120	1.018153	160	1.055502						
Chloroethane	80	0.8233591	120	0.8201628	160	0.8523279						
Chloroform	80	2.444838	120	2.392398	160	2.409684						
Chloromethane	80	1.392274	120	1.432491	160	1.521716						
cis-1,2-Dichloroethylene	80	2.319764	120	2.270422	160	2.325908						
cis-1,3-Dichloropropylene	80	0.6012848	120	0.6124026	160	0.6333976						
Cyclohexane	80	2.768247	120	2.105764	160	1.952491						
Dibromochloromethane	80	0.3636455	120	0.3741994	160	0.390052						
Dibromomethane	80	0.2096265	120	0.2168803	160	0.2176893						
Dichlorodifluoromethane	80	0.8365608	120	0.7911594	160	0.8459124						
Ethyl Benzene	80	1.753042	120	1.708827	160	1.745145						
Hexachlorobutadiene	80	0.1921758	120	0.1943994	160	0.2093592						
Isopropylbenzene	80	4.045176	120	3.74854	160	3.892						
Methyl acetate	80	0.5713659	120	0.5628223	160	0.5906532						
Methyl tert-butyl ether (MTBE)	80	3.230561	120	3.223543	160	3.365587						
Methylcyclohexane	80	0.6351092	120	0.6281445	160	0.6596179						
Methylene chloride	80	1.877806	120	1.884969	160	1.95379						
Naphthalene	80	1.939532	120	1.981258	160	2.091338						
n-Butylbenzene	80	2.762404	120	2.656982	160	2.79215						
n-Propylbenzene	80	4.540989	120	4.218512	160	4.373081						
o-Xylene	80	1.380111	120	1.364415	160	1.415322						
p- & m- Xylenes	160	1.360649	240	1.329268	320	1.362517						

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Calibration: YF00005 Instrument: QVOA6

Calibration Date: 05/18/20 12:40

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
p-Diethylbenzene	80	1.349071	120	1.313831	160	1.396414						
p-Ethyltoluene	80	3.352328	120	3.149628	160	3.299933						
p-Isopropyltoluene	80	3.018242	120	2.885182	160	3.036571						
sec-Butylbenzene	80	3.261926	120	3.054085	160	3.20722						
Styrene	80	1.054982	120	1.049557	160	1.083559						
SURR: 1,2-Dichloroethane-d4	10	1.35188	10	1.427034	10	1.473931						
SURR: p-Bromofluorobenzene	10	1.108989	10	1.070655	10	1.072021						
SURR: Toluene-d8	10	1.406849	10	1.428029	10	1.435292						
tert-Butyl alcohol (TBA)	80	0.1023018	120	0.1053532	160	0.1103979						
tert-Butylbenzene	80	3.279885	120	3.093009	160	3.222106						
Tetrachloroethylene	80	0.4459164	120	0.4521908	160	0.4810567						
Toluene	80	1.63996	120	1.64356	160	1.694413						
trans-1,2-Dichloroethylene	80	2.026413	120	1.964726	160	2.022698						
trans-1,3-Dichloropropylene	80	0.5111706	120	0.5211886	160	0.5372114						
trans-1,4-dichloro-2-butene	80	0.8860418	120	0.865412	160	0.8966322						
Trichloroethylene	80	0.4356349	120	0.4505697	160	0.478158						
Trichlorofluoromethane	80	1.719942	120	1.672327	160	1.759964						
Vinyl acetate	80	1.528986	120	1.526096	160	1.599972						
Vinyl Chloride	80	1.24041	120	1.245907	160	1.29638						

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Calibration: YF00005 Instrument: QVOA6

Calibration Date: 05/18/20 12:40

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.3660347	12.03037	9.321889	3.338731E-02			20	
1,1,1-Trichloroethane	2.072395	11.60966	5.506556	5.761471E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.7160621	7.831601	10.61467	1.967305E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.005307	10.62849	3.253111	0.1164023			SPCC (0.1)	
1,1,2-Trichloroethane	0.2648918	11.32828	8.184555	5.763763E-02			SPCC (0.1)	
1,1-Dichloroethane	2.444742	8.010201	4.460111	0.1283264			SPCC (0.2)	
1,1-Dichloroethylene	1.921943	9.172061	3.234333	0.1510445			SPCC (0.1)	
1,1-Dichloropropylene	1.685177	9.620721	5.658444	9.179817E-02			20	
1,2,3-Trichlorobenzene	0.6813134	12.68723	14.57989	1.368213E-02			20	
1,2,3-Trichloropropane	0.202731	8.993003	10.67967	2.295918E-02			20	
1,2,4,5-Tetramethylbenzene	2.344005	9.497026	13.04667	1.711171E-02			20	
1,2,4-Trichlorobenzene	0.8065567	12.49003	14.03367	1.292034E-02			SPCC (0.2)	
1,2,4-Trimethylbenzene	2.936586	8.360841	11.367	3.946089E-02			20	
1,2-Dibromo-3-chloropropane	0.1232312	15.65106	13.08567	5.565253E-03			SPCC (0.05)	
1,2-Dibromoethane	0.2619023	10.45507	8.712667	3.008297E-02			SPCC (0.1)	
1,2-Dichlorobenzene	1.561109	7.848255	12.19867	0.030032			SPCC (0.4)	
1,2-Dichloroethane	1.699972	10.08675	5.889333	6.578461E-02			SPCC (0.1)	
1,2-Dichloropropane	0.4191104	11.101	6.730111	5.898308E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	2.94038	7.956577	10.95033	0.0296306			20	
1,3-Dichlorobenzene	1.707389	8.289642	11.687	2.646768E-02			SPCC (0.6)	
1,3-Dichloropropane	0.444466	9.838139	8.351444	3.694351E-02			20	
1,4-Dichlorobenzene	1.715979	8.198267	11.80433	2.820028E-02			SPCC (0.5)	
1,4-Dioxane	1.002144E-03	14.73893	6.797	8.178587E-02			20	
2,2-Dichloropropane	1.300415	8.680805	5.019333	7.234102E-02			20	
2-Butanone	0.0971204	6.755384	4.98475	6.243801E-02			SPCC (0.1)	*
2-Chlorotoluene	2.971845	9.718105	10.846	3.995586E-02			20	
2-Hexanone	0.2176914	15.38467	8.383667	2.518969E-02			SPCC (0.1)	
4-Chlorotoluene	3.07204	7.844726	10.98156	3.919905E-02			20	
4-Methyl-2-pentanone	0.3277815	8.756936	7.535	3.679473E-02			SPCC (0.1)	
Acetone	0.3132386	29.24094	3.259444	9.217927E-02	0.99843		SPCC (0.1)	
Acrolein	0.1038422	9.171525	3.118667	0.1631431			20	
Acrylonitrile	0.2619943	11.17714	3.953889	6.609563E-02			20	

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Calibration: YF00005 Instrument: QVOA6

Calibration Date: 05/18/20 12:40

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	4.714945	8.723043	5.842667	7.382761E-02			SPCC (0.5)	
Bromobenzene	1.648919	10.41121	10.63367	2.378114E-02			20	
Bromochloromethane	1.162166	6.864966	5.241778	9.019233E-02			20	
Bromodichloromethane	0.508692	14.68777	6.986333	4.749325E-02			SPCC (0.2)	
Bromoform	0.1922259	14.32851	10.10711	3.429662E-02			SPCC (0.1)	
Bromomethane	0.5957972	24.38781	2.301778	0.2312793	0.99738		SPCC (0.1)	
Carbon disulfide	2.646507	7.057232	3.465889	0.1399814			SPCC (0.1)	
Carbon tetrachloride	1.775226	13.18969	5.664778	0.0667652			SPCC (0.1)	
Chlorobenzene	0.9658196	9.288288	9.226889	2.393571E-02			SPCC (0.5)	
Chloroethane	0.7977304	5.640845	2.4	0.165309			SPCC (0.1)	
Chloroform	2.240544	10.00061	5.341111	5.869353E-02			SPCC (0.2)	
Chloromethane	1.390685	8.101147	1.826556	0.1448537			SPCC (0.1)	
cis-1,2-Dichloroethylene	2.208792	7.813052	5.011333	8.088914E-02			SPCC (0.1)	
cis-1,3-Dichloropropylene	0.561764	10.42237	7.414111	3.859787E-02			SPCC (0.2)	
Cyclohexane	2.213359	10.84263	5.600222	8.192428E-02			SPCC (0.1)	
Dibromochloromethane	0.3263194	14.78655	8.585333	4.645162E-02			SPCC (0.1)	
Dibromomethane	0.1919129	11.72528	6.815556	5.171281E-02			20	
Dichlorodifluoromethane	0.807931	6.450018	1.611444	1.166486			SPCC (0.1)	
Ethyl Benzene	1.657542	8.200047	9.330333	3.479395E-02			SPCC (0.1)	
Hexachlorobutadiene	0.1734989	14.58074	14.20767	1.945589E-03			20	
Isopropylbenzene	3.837779	8.607599	10.28567	2.576581E-02			SPCC (0.1)	
Methyl acetate	0.587381	9.840171	3.599444	0.1140335			SPCC (0.1)	
Methyl tert-butyl ether (MTBE)	3.042402	9.277946	4.021667	0.0874685			SPCC (0.1)	
Methylcyclohexane	0.5691352	11.18977	6.727444	7.698798E-02			SPCC (0.1)	
Methylene chloride	1.861669	6.362244	3.746444	0.1016136			SPCC (0.1)	
Naphthalene	1.921034	5.974225	14.32367	3.867964E-03			20	
n-Butylbenzene	2.577393	8.418152	12.18867	3.029851E-02			20	
n-Propylbenzene	4.324929	8.658796	10.74767	0.0355731			20	
o-Xylene	1.322213	8.297826	9.883111	2.687042E-02			SPCC (0.3)	
p- & m- Xylenes	1.290783	8.176088	9.470889	4.441715E-02			SPCC (0.1)	
p-Diethylbenzene	1.251938	7.640616	12.16233	3.291721E-02			20	
p-Ethyltoluene	3.133724	6.625345	10.88456	3.790532E-02			20	

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Calibration: YF00005
Instrument: QVOA6
Calibration Date: 05/18/20 12:40

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
p-Isopropyltoluene	2.834412	8.679898	11.72956	3.562677E-02			20	
sec-Butylbenzene	3.066893	8.652932	11.55222	3.759835E-02			20	
Styrene	1.002567	9.710072	9.902778	4.039338E-02			SPCC (0.3)	
SURR: 1,2-Dichloroethane-d4	1.380246	3.398159	5.815	8.149614E-02			20	
SURR: p-Bromofluorobenzene	1.131029	3.582598	10.48122	1.876589E-02			20	
SURR: Toluene-d8	1.395987	1.607374	7.685445	3.926172E-02			20	
tert-Butyl alcohol (TBA)	0.1038913	13.10914	3.845333	0.1207038			20	
tert-Butylbenzene	3.080197	8.334944	11.30022	3.738258E-02			20	
Tetrachloroethylene	0.4075414	12.65999	8.294556	4.282062E-02			SPCC (0.2)	
Toluene	1.549267	7.44805	7.755444	4.496695E-02			SPCC (0.4)	
trans-1,2-Dichloroethylene	1.860118	9.684587	4.035222	0.1210621			SPCC (0.1)	
trans-1,3-Dichloropropylene	0.4756688	11.11245	7.982	0.0341593			SPCC (0.1)	
trans-1,4-dichloro-2-butene	0.8727739	5.071156	10.67578	3.551662E-02			20	
Trichloroethylene	0.3977452	13.15399	6.487	0.0626633			SPCC (0.2)	
Trichlorofluoromethane	1.614859	7.034658	2.684111	0.1759147			SPCC (0.1)	
Vinyl acetate	1.545802	6.724121	4.457444	7.099274E-02			20	
Vinyl Chloride	1.211735	5.754919	1.922889	1.064062			SPCC (0.1)	

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911782.D
Acq On : 20 May 2020 6:31 pm
Operator : TMP
Sample : SEQ-CAL1
Misc : QBQV9052020A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 21 11:01:41 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.744	70	155794	10.00	ppb		#-0.02
40) CHLOROBENZENE-d5 (ISTD)	8.792	117	630456	10.00	ppb		-0.02
67) 1,2-DICHLOROBENZENE-d4...	11.779	152	256375	10.00	ppb		-0.02
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.427	65	214328	13.54	ppb		-0.02
Spiked Amount 10.000	Range 69 - 130		Recovery = 135.40%#				
51) Toluene-d8 (SURR)	7.287	98	821742	9.17	ppb		-0.02
Spiked Amount 10.000	Range 81 - 117		Recovery = 91.70%				
70) p-Bromofluorobenzene (...	10.079	95	346023	6.77	ppb		-0.02
Spiked Amount 10.000	Range 79 - 122		Recovery = 67.70%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.544	85	7071	0.48	ppb	#	1
3) Chloromethane	1.710	50	4084	0.31	ppb		92
4) Vinyl Chloride	1.815	62	5320	0.44	ppb	#	100
6) Chloroethane	2.239	64	3637	0.50	ppb	#	25
7) Trichlorofluoromethane	2.486	101	10556	0.39	ppb	#	24
8) Ethanol	2.640	45	803	43.59	ppb	#	1
9) Freon-113	3.012	101	6206m	0.46	ppb		
10) 1,1-Dichloroethylene	2.992	61	9151	0.39	ppb		91
11) Acrolein	2.870	56	377	0.52	ppb	#	1
12) Acetone	3.006	43	1311	0.88	ppb	#	1
13) Iodomethane	3.128	142	1842	0.17	ppb	#	74
14) Methyl Acetate	3.320	43	2395	0.82	ppb	#	1
15) Carbon disulfide	3.218	76	15076	0.46	ppb	#	20
16) tert-Butyl Alcohol (TBA)	3.541	59	859m	1.37	ppb		
17) Methylene Chloride	3.451	49	10243	0.71	ppb	#	80
18) Acrylonitrile	3.707	53	136m	0.46	ppb		
19) trans-1,2-Dichloroethy...	3.727	61	8470	0.41	ppb	#	81
20) tert-Butyl Methyl Ethe...	3.727	73	16354	0.58	ppb	#	95
21) 1,1-Dichloroethane	4.131	63	12447	0.43	ppb	#	99
22) Vinyl Acetate	4.113	43	1784	0.19	ppb	#	1
23) Diisopropyl ether (DIPE)	4.174	45	22039	0.54	ppb	#	54
24) Ethyl-tert-Butyl ether...	4.511	59	26178	0.61	ppb	#	99
25) cis-1,2-Dichloroethylene	4.648	61	11329	0.45	ppb	#	87
26) 2-Butanone	4.596	72	435m	1.01	ppb		
27) 2,2-Dichloropropane	4.668	77	12495	0.41	ppb		97
28) Tetrahydrofuran	4.907	42	940m	0.84	ppb		
29) Bromochloromethane	4.869	49	4720	0.62	ppb	#	49
30) Chloroform	4.962	83	13541	0.43	ppb	#	85
31) 1,1,1-Trichloroethane	5.142	97	13173	0.40	ppb	#	26
32) Cyclohexane	5.244	56	24935	0.43	ppb	#	89
33) 1,1-Dichloropropylene	5.287	75	10470	0.44	ppb	#	52
35) Carbon Tetrachloride	5.299	117	10787	0.41	ppb	#	97
36) tert-Amyl alcohol (TAA)	5.436	59	4120m	9.91	ppb		
37) 1,2-Dichloroethane	5.502	62	9573	0.57	ppb	#	99
38) Benzene	5.468	78	26858	0.43	ppb	#	96
39) tert-Amyl methyl ether...	5.598	73	21398	0.67	ppb	#	1
41) Trichloroethylene	6.101	95	7753	0.35	ppb	#	70
42) Methyl Cyclohexane	6.354	83	14038m	0.45	ppb		
43) Methyl Methacrylate	6.365	69	8506	0.77	ppb	#	99
44) Dibromomethane	6.415	93	3482	0.57	ppb	#	49
45) Bromodichloromethane	6.580	83	9482	0.47	ppb	#	94
46) 1,2-Dichloropropane	6.336	63	7104	0.48	ppb	#	94
47) 1,4-Dioxane	6.400	88	212	4.89	ppb		97
49) cis-1,3-Dichloropropene	7.005	75	11616	0.53	ppb	#	62
50) 4-Methyl-2-Pentanone	7.124	43	2963	0.60	ppb	#	81
52) Toluene	7.353	91	32566	0.41	ppb		100
53) trans-1,3-Dichloropropene	7.566	75	9931	0.58	ppb	#	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911782.D
Acq On : 20 May 2020 6:31 pm
Operator : TMP
Sample : SEQ-CAL1
Misc : QBQV9052020A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 21 11:01:41 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

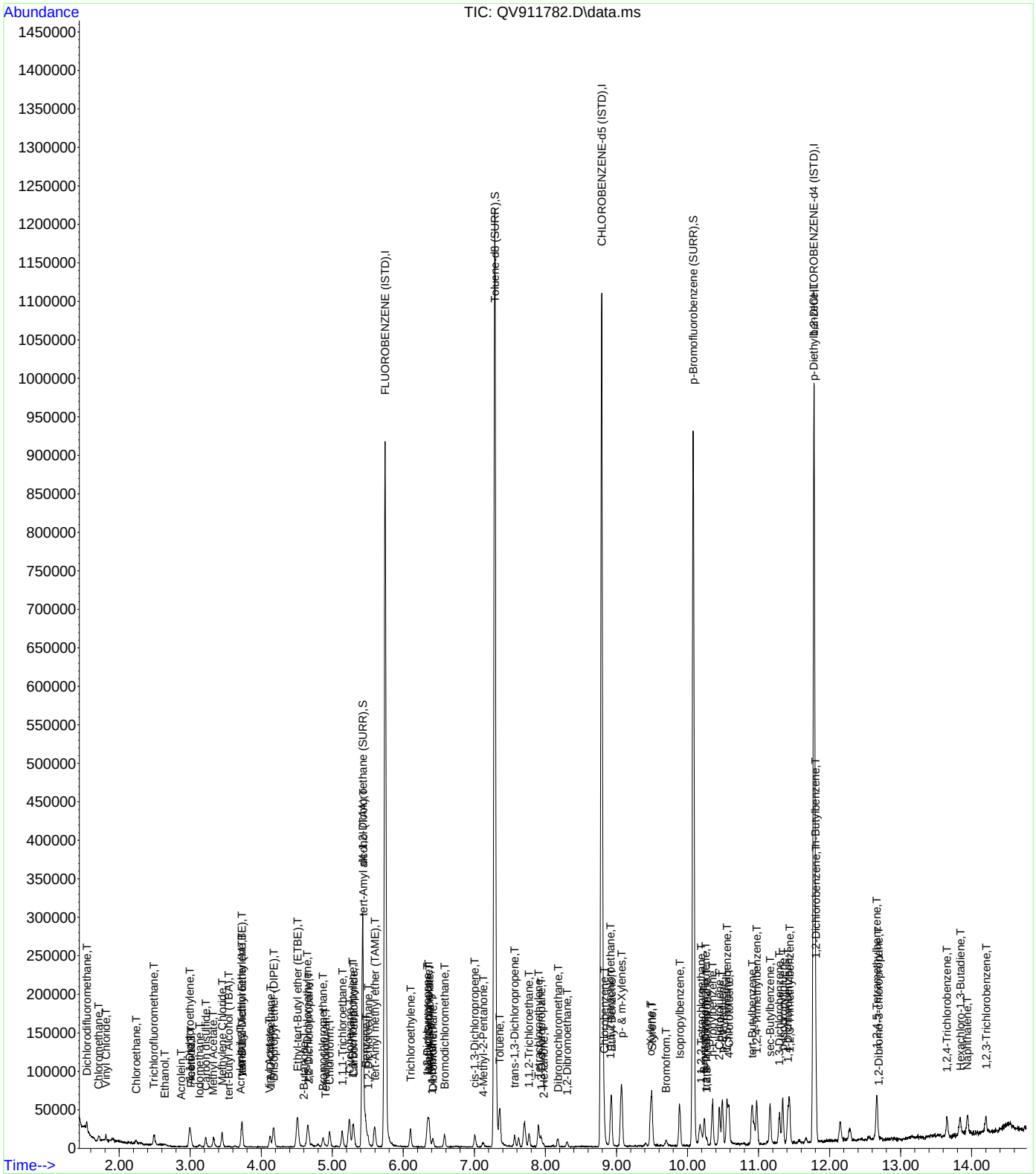
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	7.766	97	5096	0.63	ppb	#	1
55) 1,3-Dichloropropane	7.941	76	9082	0.63	ppb	#	96
56) Tetrachloroethylene	7.903	166	7470	0.32	ppb	#	100
57) 2-Hexanone	7.978	43	2596m	0.80	ppb		
58) Dibromochloromethane	8.179	129	5237	0.49	ppb	#	86
59) 1,2-Dibromoethane	8.307	107	4246	0.59	ppb		87
60) Chlorobenzene	8.827	112	19790	0.44	ppb	#	77
61) 1,1,1,2-tetrachloroethane	8.917	131	7090	0.51	ppb	#	44
62) Ethyl Benzene	8.931	91	38051	0.41	ppb		97
63) p- & m-Xylenes	9.071	91	62637	0.84	ppb	#	86
64) o-Xylene	9.481	91	31840	0.44	ppb		96
65) Styrene	9.498	104	22974	0.50	ppb	#	84
66) Bromofrom	9.696	173	2706	0.56	ppb	#	86
68) p-Ethyltoluene	10.492	105	37632	0.28	ppb	#	97
69) Isopropylbenzene	9.890	105	39265	0.25	ppb		99
71) 1,1,2,2-Tetrachloroethane	10.193	83	5283	0.49	ppb	#	95
72) Bromobenzene	10.233	77	14148	0.31	ppb	#	25
73) trans-1,4-Dichloro-2-b...	10.257	75	4501m	0.48	ppb		
74) 1,2,3-Trichloropropane	10.268	110	1343	0.37	ppb	#	1
75) n-Propylbenzene	10.352	91	47059	0.26	ppb	#	86
76) 2-Chlorotoluene	10.448	91	29027	0.28	ppb		98
77) 4-Chlorotoluene	10.582	91	33163	0.28	ppb		95
78) 1,3,5-Trimethylbenzene	10.556	105	32125	0.25	ppb	#	59
79) tert-Butylbenzene	10.910	119	30505	0.27	ppb		90
80) 1,2,4-Trimethylbenzene	10.974	105	32996	0.27	ppb		95
81) sec-Butylbenzene	11.163	105	36859	0.27	ppb	#	81
82) 1,3-Dichlorobenzene	11.294	146	15250	0.33	ppb	#	85
83) p-Isopropyltoluene	11.343	119	33042	0.27	ppb	#	90
84) 1,4-Dichlorobenzene	11.413	146	15354	0.35	ppb	#	84
85) 1,2,3-Trimethylbenzene	11.436	105	33493	0.34	ppb	#	89
86) p-Diethylbenzene	11.776	105	20137	0.34	ppb	#	82
87) 1,2-Dichlorobenzene	11.805	146	12897	0.41	ppb	#	100
88) n-Butylbenzene	11.800	91	39788	0.31	ppb	#	91
89) 1,2-Dibromo-3-chloropr...	12.692	75	1060	0.47	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.663	119	32412	0.45	ppb	#	84
91) 1,2,4-Trichlorobenzene	13.651	180	7213	0.73	ppb	#	14
92) Hexachloro-1,3-Butadiene	13.843	225	4706m	0.58	ppb		
93) Naphthalene	13.936	128	18497	1.34	ppb	#	91
94) 1,2,3-Trichlorobenzene	14.203	180	5080m	1.02	ppb		

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911782.D
Acq On : 20 May 2020 6:31 pm
Operator : TMP
Sample : SEQ-CAL1
Misc : QBQV9052020A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 21 11:01:41 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911783.D
Acq On : 20 May 2020 6:58 pm
Operator : TMP
Sample : SEQ-CAL2
Misc : QBQV9052020A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 21 10:59:00 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.740	70	150752	10.00	ppb		#-0.02
40) CHLOROBENZENE-d5 (ISTD)	8.792	117	623817	10.00	ppb		-0.02
67) 1,2-DICHLOROBENZENE-d4...	11.782	152	248689	10.00	ppb		-0.02
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.429	65	205655	13.43	ppb		-0.02
Spiked Amount 10.000	Range 69 - 130		Recovery = 134.30%#				
51) Toluene-d8 (SURR)	7.286	98	808718	9.12	ppb		-0.02
Spiked Amount 10.000	Range 81 - 117		Recovery = 91.20%				
70) p-Bromofluorobenzene (...	10.079	95	344664	6.95	ppb		-0.02
Spiked Amount 10.000	Range 79 - 122		Recovery = 69.50%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.544	85	28941	2.04	ppb	#	1
3) Chloromethane	1.710	50	13507	1.06	ppb		99
4) Vinyl Chloride	1.809	62	24627	2.09	ppb	#	98
5) Bromomethane	2.125	94	1545	0.61	ppb		96
6) Chloroethane	2.236	64	11205	1.58	ppb	#	17
7) Trichlorofluoromethane	2.489	101	47446	1.79	ppb	#	20
8) Ethanol	2.634	45	3139m	176.10	ppb		
9) Freon-113	3.006	101	26239	1.99	ppb	#	1
10) 1,1-Dichloroethylene	2.986	61	44282	1.95	ppb	#	83
11) Acrolein	2.869	56	1782	2.55	ppb	#	1
12) Acetone	3.000	43	4626	3.23	ppb	#	1
13) Iodomethane	3.131	142	13808	1.33	ppb	#	72
14) Methyl Acetate	3.323	43	7718	2.73	ppb	#	1
15) Carbon disulfide	3.215	76	66203	2.10	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.535	59	2142m	3.52	ppb		
17) Methylene Chloride	3.445	49	36901	2.64	ppb	#	74
18) Acrylonitrile	3.721	53	853m	2.99	ppb		
19) trans-1,2-Dichloroethy...	3.729	61	42759	2.12	ppb	#	89
20) tert-Butyl Methyl Ethe...	3.724	73	78651	2.90	ppb	#	96
21) 1,1-Dichloroethane	4.125	63	62180	2.22	ppb	#	99
22) Vinyl Acetate	4.113	43	7922	0.88	ppb	#	1
23) Diisopropyl ether (DIPE)	4.171	45	88988	2.27	ppb	#	41
24) Ethyl-tert-Butyl ether...	4.508	59	102707	2.47	ppb	#	99
25) cis-1,2-Dichloroethylene	4.648	61	54133	2.23	ppb	#	80
26) 2-Butanone	4.619	72	2081m	5.01	ppb		
27) 2,2-Dichloropropane	4.662	77	58142	1.98	ppb	#	87
28) Tetrahydrofuran	4.898	42	3950m	3.66	ppb		
29) Bromochloromethane	4.869	49	22749	3.08	ppb	#	48
30) Chloroform	4.962	83	67825	2.23	ppb	#	85
31) 1,1,1-Trichloroethane	5.142	97	65998	2.05	ppb	#	26
32) Cyclohexane	5.241	56	118877	2.10	ppb	#	82
33) 1,1-Dichloropropylene	5.287	75	48736	2.12	ppb	#	55
35) Carbon Tetrachloride	5.302	117	53357	2.12	ppb	#	98
36) tert-Amyl alcohol (TAA)	5.441	59	14000	34.79	ppb	#	6
37) 1,2-Dichloroethane	5.499	62	42793	2.62	ppb	#	98
38) Benzene	5.467	78	130175	2.16	ppb	#	95
39) tert-Amyl methyl ether...	5.598	73	84162	2.72	ppb	#	1
41) Trichloroethylene	6.098	95	36050	1.66	ppb	#	72
42) Methyl Cyclohexane	6.354	83	56347	1.83	ppb	#	67
43) Methyl Methacrylate	6.368	69	26632	2.42	ppb	#	98
44) Dibromomethane	6.418	93	15391	2.55	ppb	#	49
45) Bromodichloromethane	6.580	83	48752	2.46	ppb		96
46) 1,2-Dichloropropane	6.333	63	31796	2.17	ppb	#	79
47) 1,4-Dioxane	6.418	88	1928m	45.06	ppb		
49) cis-1,3-Dichloropropene	7.005	75	54938	2.52	ppb	#	60
50) 4-Methyl-2-Pentanone	7.121	43	14990	3.08	ppb	#	51
52) Toluene	7.356	91	151822	1.95	ppb		99

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911783.D
Acq On : 20 May 2020 6:58 pm
Operator : TMP
Sample : SEQ-CAL2
Misc : QBQV9052020A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 21 10:59:00 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

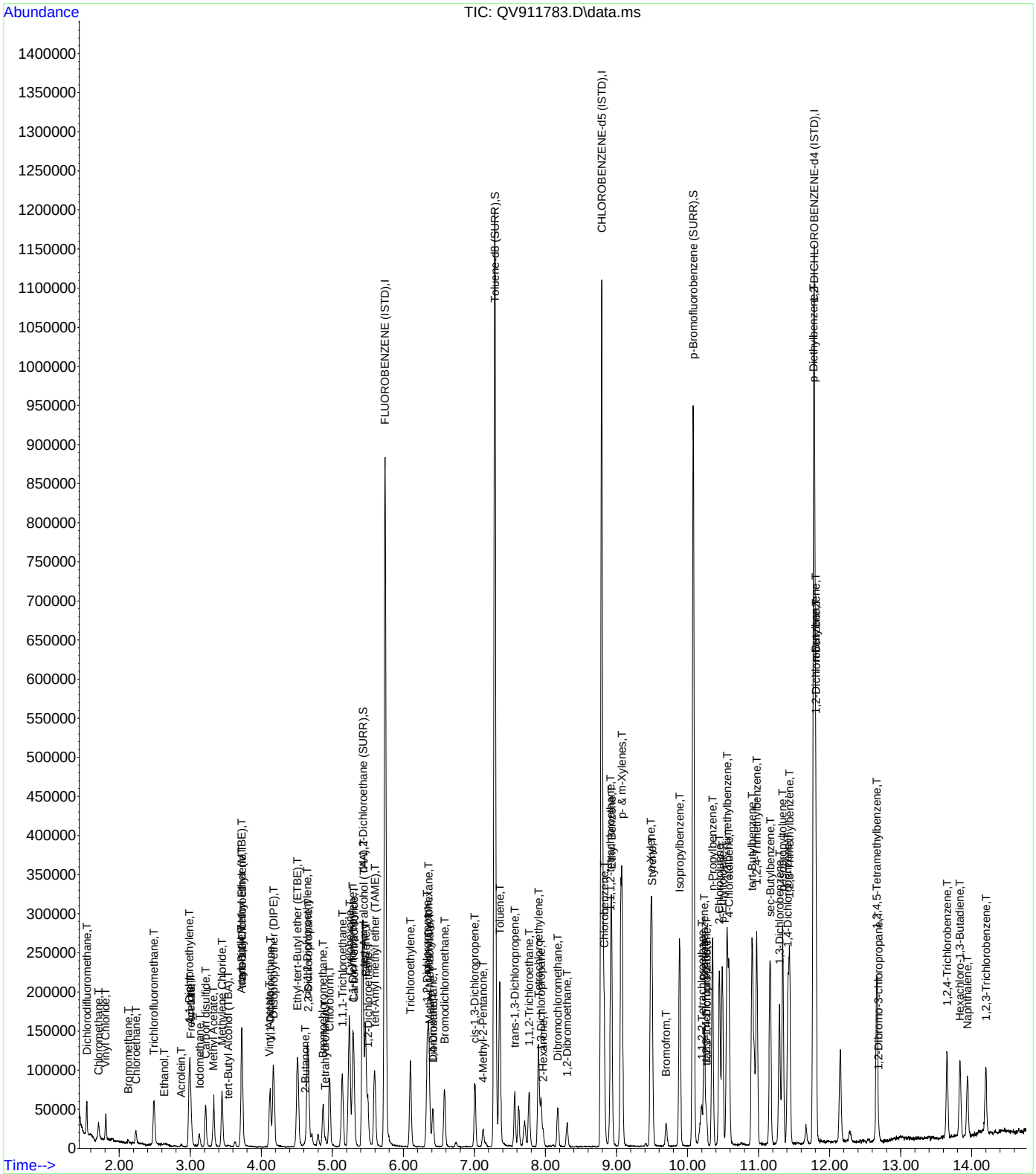
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.568	75	46630	2.77	ppb	#	88
54) 1,1,2-Trichloroethane	7.769	97	21734	2.73	ppb	#	1
55) 1,3-Dichloropropane	7.937	76	41007	2.87	ppb	#	70
56) Tetrachloroethylene	7.902	166	35552	1.52	ppb	#	100
57) 2-Hexanone	7.963	43	10836	3.38	ppb	#	1
58) Dibromochloromethane	8.173	129	25434	2.40	ppb	#	84
59) 1,2-Dibromoethane	8.303	107	21089	2.94	ppb		98
60) Chlorobenzene	8.827	112	98908	2.20	ppb	#	82
61) 1,1,1,2-tetrachloroethane	8.917	131	33738	2.47	ppb	#	47
62) Ethyl Benzene	8.931	91	189427	2.07	ppb		96
63) p- & m-Xylenes	9.074	91	302929	4.11	ppb		92
64) o-Xylene	9.483	91	155137	2.15	ppb		96
65) Styrene	9.501	104	107154	2.34	ppb	#	82
66) Bromofrom	9.698	173	12991	2.74	ppb	#	93
68) p-Ethyltoluene	10.492	105	158360	1.22	ppb	#	97
69) Isopropylbenzene	9.887	105	191929	1.26	ppb	#	89
71) 1,1,2,2-Tetrachloroethane	10.201	83	22112	2.10	ppb	#	96
72) Bromobenzene	10.233	77	70446	1.57	ppb	#	79
73) trans-1,4-Dichloro-2-b...	10.268	75	18945m	2.07	ppb		
74) 1,2,3-Trichloropropane	10.265	110	7391	2.07	ppb	#	1
75) n-Propylbenzene	10.352	91	221588	1.26	ppb	#	89
76) 2-Chlorotoluene	10.448	91	137977	1.35	ppb		97
77) 4-Chlorotoluene	10.582	91	160017	1.37	ppb		95
78) 1,3,5-Trimethylbenzene	10.559	105	161482	1.32	ppb	#	59
79) tert-Butylbenzene	10.907	119	152763	1.39	ppb	#	94
80) 1,2,4-Trimethylbenzene	10.974	105	160255	1.36	ppb		93
81) sec-Butylbenzene	11.166	105	187908	1.40	ppb	#	91
82) 1,3-Dichlorobenzene	11.297	146	70663	1.57	ppb	#	90
83) p-Isopropyltoluene	11.337	119	165637	1.40	ppb		93
84) 1,4-Dichlorobenzene	11.410	146	69468m	1.63	ppb		
85) 1,2,3-Trimethylbenzene	11.433	105	148051	1.55	ppb	#	89
86) p-Diethylbenzene	11.773	105	79310	1.39	ppb	#	49
87) 1,2-Dichlorobenzene	11.805	146	61436	1.99	ppb	#	100
88) n-Butylbenzene	11.802	91	175879	1.42	ppb	#	90
89) 1,2-Dibromo-3-chloropr...	12.689	75	5022	2.32	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.662	119	128369	1.82	ppb	#	85
91) 1,2,4-Trichlorobenzene	13.653	180	36409	3.77	ppb	#	16
92) Hexachloro-1,3-Butadiene	13.831	225	22245	2.84	ppb	#	64
93) Naphthalene	13.938	128	63879	4.77	ppb	#	92
94) 1,2,3-Trichlorobenzene	14.200	180	26490	5.47	ppb	#	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911783.D
Acq On : 20 May 2020 6:58 pm
Operator : TMP
Sample : SEQ-CAL2
Misc : QBQV9052020A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 21 10:59:00 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911784.D
Acq On : 20 May 2020 7:25 pm
Operator : TMP
Sample : SEQ-CAL3
Misc : QBQV9052020A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 21 10:57:16 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.743	70	159527	10.00	ppb		-0.02
40) CHLOROBENZENE-d5 (ISTD)	8.792	117	656894	10.00	ppb		-0.02
67) 1,2-DICHLOROBENZENE-d4...	11.779	152	259551	10.00	ppb		-0.02
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.424	65	215069	13.27	ppb		-0.03
Spiked Amount 10.000	Range 69 - 130		Recovery = 132.70%#				
51) Toluene-d8 (SURR)	7.289	98	834332	8.94	ppb		-0.02
Spiked Amount 10.000	Range 81 - 117		Recovery = 89.40%				
70) p-Bromofluorobenzene (...	10.082	95	357736	6.91	ppb		-0.02
Spiked Amount 10.000	Range 79 - 122		Recovery = 69.10%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.544	85	54865	3.65	ppb	#	1
3) Chloromethane	1.713	50	30076	2.24	ppb		95
4) Vinyl Chloride	1.814	62	47288	3.79	ppb	#	98
5) Bromomethane	2.125	94	3900	1.46	ppb		98
6) Chloroethane	2.236	64	24804	3.31	ppb	#	25
7) Trichlorofluoromethane	2.489	101	84484	3.02	ppb	#	22
8) Ethanol	2.634	45	4370	231.67	ppb	#	1
9) Freon-113	3.000	101	45698	3.28	ppb	#	1
10) 1,1-Dichloroethylene	2.989	61	83471	3.46	ppb	#	87
11) Acrolein	2.875	56	3398	4.59	ppb	#	1
12) Acetone	3.006	43	8352	5.50	ppb	#	1
13) Iodomethane	3.128	142	32686	2.98	ppb	#	72
14) Methyl Acetate	3.317	43	14846	4.96	ppb	#	1
15) Carbon disulfide	3.218	76	128266	3.85	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.544	59	4257m	6.62	ppb		
17) Methylene Chloride	3.448	49	66925	4.53	ppb	#	75
18) Acrylonitrile	3.727	53	1870m	6.20	ppb		
19) trans-1,2-Dichloroethy...	3.727	61	79722	3.74	ppb	#	83
20) tert-Butyl Methyl Ethe...	3.727	73	149829	5.23	ppb	#	95
21) 1,1-Dichloroethane	4.122	63	112066	3.78	ppb	#	99
22) Vinyl Acetate	4.110	43	20503	2.15	ppb	#	1
23) Diisopropyl ether (DIPE)	4.171	45	168485	4.06	ppb	#	53
24) Ethyl-tert-Butyl ether...	4.511	59	199518	4.53	ppb	#	98
25) cis-1,2-Dichloroethylene	4.651	61	100648	3.92	ppb	#	84
26) 2-Butanone	4.619	72	4147m	9.44	ppb		
27) 2,2-Dichloropropane	4.665	77	106150	3.42	ppb	#	87
28) Tetrahydrofuran	4.906	42	7917	6.93	ppb	#	1
29) Bromochloromethane	4.872	49	41035	5.25	ppb	#	47
30) Chloroform	4.962	83	125942	3.91	ppb	#	85
31) 1,1,1-Trichloroethane	5.139	97	125156	3.68	ppb	#	55
32) Cyclohexane	5.244	56	211388	3.52	ppb	#	84
33) 1,1-Dichloropropylene	5.290	75	86124	3.54	ppb	#	61
35) Carbon Tetrachloride	5.302	117	104802	3.93	ppb	#	99
36) tert-Amyl alcohol (TAA)	5.438	59	31119	73.08	ppb	#	1
37) 1,2-Dichloroethane	5.502	62	87530	5.06	ppb	#	98
38) Benzene	5.467	78	242756	3.81	ppb	#	95
39) tert-Amyl methyl ether...	5.595	73	162907	4.97	ppb	#	1
41) Trichloroethylene	6.098	95	68815	3.00	ppb	#	71
42) Methyl Cyclohexane	6.354	83	95928	2.96	ppb	#	67
43) Methyl Methacrylate	6.362	69	48051	4.15	ppb	#	97
44) Dibromomethane	6.415	93	31187	4.90	ppb	#	88
45) Bromodichloromethane	6.580	83	92604	4.44	ppb	#	96
46) 1,2-Dichloropropane	6.336	63	63121	4.09	ppb	#	90
47) 1,4-Dioxane	6.400	88	4387m	97.80	ppb		
49) cis-1,3-Dichloropropene	7.005	75	103480	4.51	ppb	#	61
50) 4-Methyl-2-Pentanone	7.124	43	30327	5.91	ppb	#	49
52) Toluene	7.356	91	284526	3.47	ppb		100

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911784.D
Acq On : 20 May 2020 7:25 pm
Operator : TMP
Sample : SEQ-CAL3
Misc : QBQV9052020A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 21 10:57:16 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

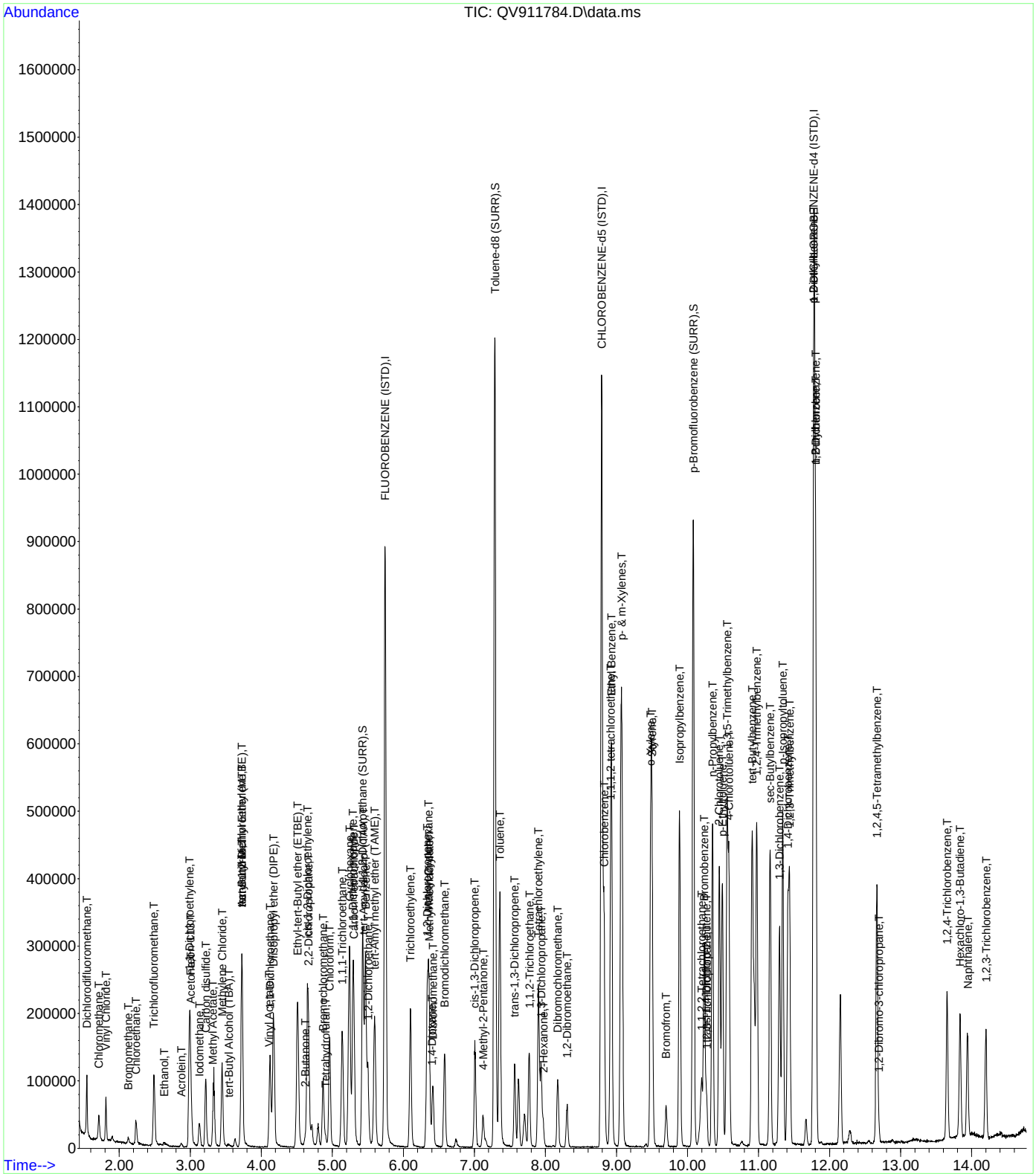
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.565	75	91819	5.18	ppb	#	88
54) 1,1,2-Trichloroethane	7.775	97	44803	5.34	ppb	#	1
55) 1,3-Dichloropropane	7.940	76	79689	5.29	ppb	#	97
56) Tetrachloroethylene	7.900	166	66302	2.69	ppb	#	100
57) 2-Hexanone	7.969	43	22609	6.69	ppb	#	2
58) Dibromochloromethane	8.173	129	53124	4.77	ppb	#	85
59) 1,2-Dibromoethane	8.304	107	41033	5.43	ppb		89
60) Chlorobenzene	8.827	112	182880	3.87	ppb	#	85
61) 1,1,1,2-tetrachloroethane	8.917	131	65573	4.55	ppb	#	50
62) Ethyl Benzene	8.928	91	346799	3.59	ppb		95
63) p- & m-Xylenes	9.071	91	564488	7.28	ppb	#	90
64) o-Xylene	9.480	91	287341	3.78	ppb		96
65) Styrene	9.501	104	205080	4.25	ppb	#	82
66) Bromofrom	9.698	173	27906	5.58	ppb	#	95
68) p-Ethyltoluene	10.492	105	268252	1.99	ppb	#	97
69) Isopropylbenzene	9.887	105	356098	2.24	ppb	#	91
71) 1,1,2,2-Tetrachloroethane	10.198	83	44166	4.02	ppb	#	65
72) Bromobenzene	10.233	77	136593	2.92	ppb	#	77
73) trans-1,4-Dichloro-2-b...	10.265	75	37983m	3.98	ppb		
74) 1,2,3-Trichloropropane	10.271	110	14186m	3.81	ppb		
75) n-Propylbenzene	10.352	91	417549	2.28	ppb	#	90
76) 2-Chlorotoluene	10.445	91	252565	2.37	ppb		98
77) 4-Chlorotoluene	10.582	91	294131	2.42	ppb		95
78) 1,3,5-Trimethylbenzene	10.559	105	298157	2.33	ppb	#	59
79) tert-Butylbenzene	10.910	119	281945	2.46	ppb		95
80) 1,2,4-Trimethylbenzene	10.974	105	302918	2.47	ppb		92
81) sec-Butylbenzene	11.163	105	337896	2.41	ppb	#	91
82) 1,3-Dichlorobenzene	11.297	146	134849	2.87	ppb	#	89
83) p-Isopropyltoluene	11.340	119	303557	2.45	ppb		93
84) 1,4-Dichlorobenzene	11.413	146	133937m	3.01	ppb		
85) 1,2,3-Trimethylbenzene	11.436	105	227868	2.28	ppb	#	91
86) p-Diethylbenzene	11.773	105	140051	2.34	ppb	#	40
87) 1,2-Dichlorobenzene	11.802	146	114365	3.55	ppb	#	100
88) n-Butylbenzene	11.802	91	331637	2.57	ppb	#	86
89) 1,2-Dibromo-3-chloropr...	12.694	75	9961	4.40	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.665	119	227987	3.10	ppb	#	86
91) 1,2,4-Trichlorobenzene	13.653	180	68550	6.81	ppb	#	20
92) Hexachloro-1,3-Butadiene	13.834	225	42100	5.14	ppb	#	69
93) Naphthalene	13.944	128	125329	8.97	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.203	180	51293	10.16	ppb	#	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911784.D
Acq On : 20 May 2020 7:25 pm
Operator : TMP
Sample : SEQ-CAL3
Misc : QBQV9052020A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 21 10:57:16 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911785.D
Acq On : 20 May 2020 7:52 pm
Operator : TMP
Sample : SEQ-CAL4
Misc : QBQV9052020A
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 21 10:55:37 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.741	70	157604	10.00	ppb		-0.02
40) CHLOROBENZENE-d5 (ISTD)	8.792	117	657847	10.00	ppb		-0.02
67) 1,2-DICHLOROBENZENE-d4...	11.782	152	271604	10.00	ppb		#-0.02
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.424	65	214328	13.39	ppb		-0.03
Spiked Amount 10.000	Range 69 - 130		Recovery = 133.90%#				
51) Toluene-d8 (SURR)	7.287	98	831004	8.89	ppb		-0.02
Spiked Amount 10.000	Range 81 - 117		Recovery = 88.90%				
70) p-Bromofluorobenzene (...	10.079	95	357106	6.59	ppb		-0.02
Spiked Amount 10.000	Range 79 - 122		Recovery = 65.90%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.544	85	103611	6.97	ppb	#	1
3) Chloromethane	1.713	50	59565	4.49	ppb		93
4) Vinyl Chloride	1.812	62	104945	8.52	ppb	#	98
5) Bromomethane	2.131	94	9235	3.48	ppb		96
6) Chloroethane	2.236	64	48389	6.53	ppb	#	19
7) Trichlorofluoromethane	2.489	101	182834	6.61	ppb	#	20
8) Ethanol	2.628	45	19969m	1071.57	ppb		
9) Freon-113	3.003	101	113345	8.24	ppb	#	1
10) 1,1-Dichloroethylene	2.989	61	195124	8.20	ppb	#	85
11) Acrolein	2.869	56	8484	11.59	ppb	#	1
12) Acetone	3.003	43	20466	13.65	ppb	#	1
13) Iodomethane	3.128	142	94527	8.72	ppb	#	72
14) Methyl Acetate	3.311	43	36979	12.51	ppb	#	1
15) Carbon disulfide	3.218	76	291007	8.85	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.549	59	9606m	15.11	ppb		
17) Methylene Chloride	3.448	49	157613	10.79	ppb	#	77
18) Acrylonitrile	3.727	53	3928m	13.19	ppb		
19) trans-1,2-Dichloroethy...	3.727	61	185791	8.83	ppb	#	82
20) tert-Butyl Methyl Ethe...	3.724	73	371395	13.12	ppb	#	95
21) 1,1-Dichloroethane	4.122	63	267942	9.15	ppb	#	99
22) Vinyl Acetate	4.116	43	64214	6.81	ppb	#	1
23) Diisopropyl ether (DIPE)	4.171	45	391871	9.56	ppb	#	51
24) Ethyl-tert-Butyl ether...	4.511	59	450100	10.35	ppb	#	79
25) cis-1,2-Dichloroethylene	4.651	61	236831	9.33	ppb	#	85
26) 2-Butanone	4.616	72	9691m	22.32	ppb		
27) 2,2-Dichloropropane	4.662	77	244141	7.97	ppb	#	92
28) Tetrahydrofuran	4.901	42	18131	16.06	ppb	#	1
29) Bromochloromethane	4.872	49	99452	12.87	ppb	#	47
30) Chloroform	4.959	83	299194	9.41	ppb	#	94
31) 1,1,1-Trichloroethane	5.142	97	295001	8.78	ppb	#	55
32) Cyclohexane	5.241	56	523804	8.84	ppb	#	82
33) 1,1-Dichloropropylene	5.287	75	204426	8.51	ppb	#	55
35) Carbon Tetrachloride	5.302	117	244236	9.28	ppb	#	53
36) tert-Amyl alcohol (TAA)	5.438	59	70454	167.47	ppb	#	16
37) 1,2-Dichloroethane	5.499	62	205487	12.02	ppb	#	100
38) Benzene	5.465	78	572243	9.10	ppb	#	95
39) tert-Amyl methyl ether...	5.595	73	385415	11.90	ppb	#	1
41) Trichloroethylene	6.101	95	163811	7.13	ppb	#	72
42) Methyl Cyclohexane	6.351	83	248994	7.67	ppb	#	51
43) Methyl Methacrylate	6.362	69	116680	10.06	ppb	#	97
44) Dibromomethane	6.412	93	74941	11.76	ppb	#	87
45) Bromodichloromethane	6.577	83	227363	10.88	ppb	#	95
46) 1,2-Dichloropropane	6.333	63	147074	9.53	ppb	#	94
47) 1,4-Dioxane	6.397	88	11618m	262.11	ppb		
49) cis-1,3-Dichloropropene	7.008	75	254417	11.06	ppb	#	65
50) 4-Methyl-2-Pentanone	7.121	43	72233	14.05	ppb	#	52
52) Toluene	7.356	91	677764	8.25	ppb		100

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911785.D
Acq On : 20 May 2020 7:52 pm
Operator : TMP
Sample : SEQ-CAL4
Misc : QBQV9052020A
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 21 10:55:37 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

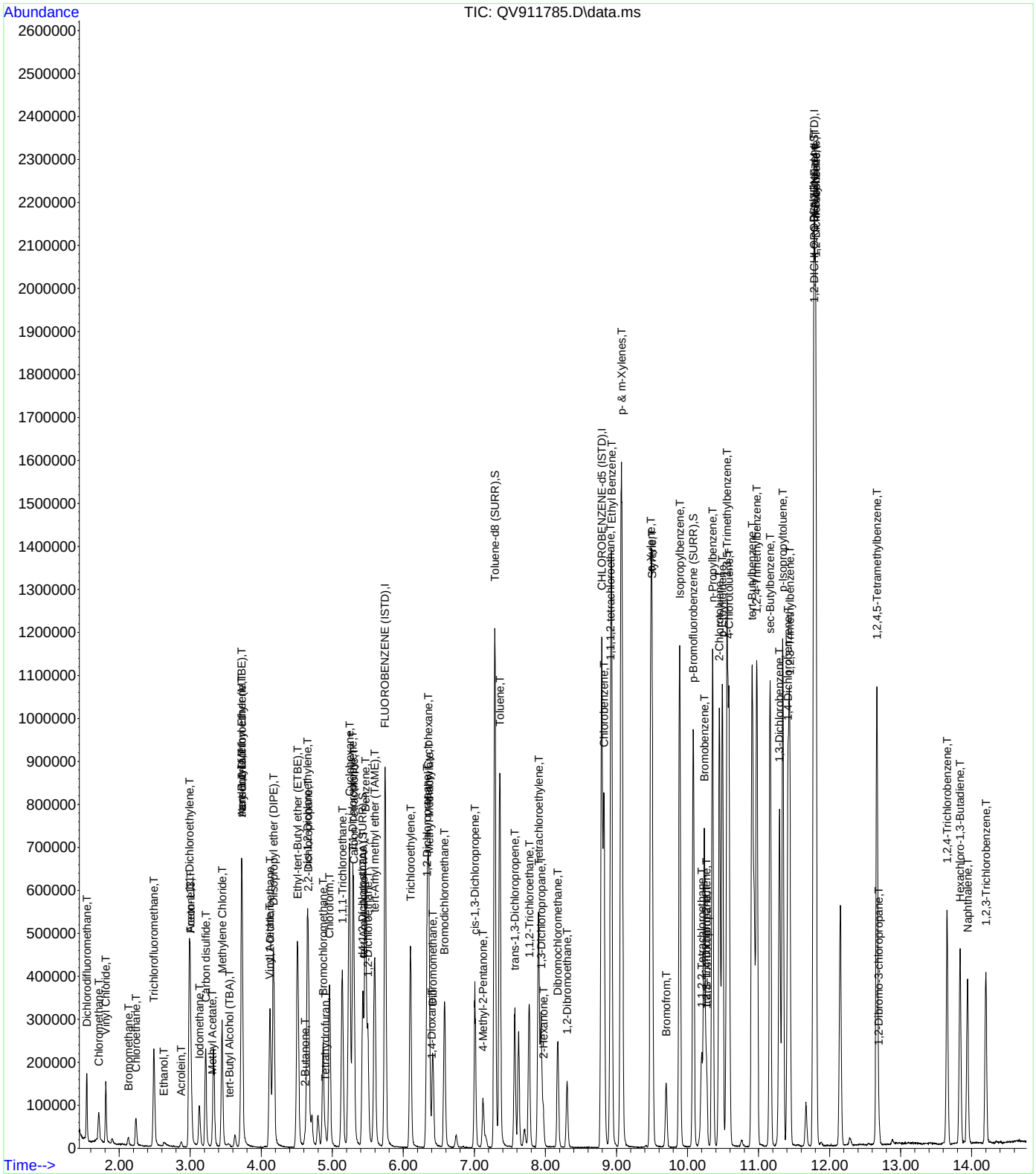
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.568	75	226576	12.76	ppb	#	98
54) 1,1,2-Trichloroethane	7.772	97	107047	12.73	ppb	#	1
55) 1,3-Dichloropropane	7.940	76	189764	12.58	ppb	#	68
56) Tetrachloroethylene	7.906	166	157755	6.40	ppb	#	100
57) 2-Hexanone	7.969	43	51365	15.17	ppb	#	1
58) Dibromochloromethane	8.173	129	130381	11.68	ppb	#	85
59) 1,2-Dibromoethane	8.304	107	101419	13.40	ppb		92
60) Chlorobenzene	8.824	112	438092	9.26	ppb	#	86
61) 1,1,1,2-tetrachloroethane	8.917	131	157870	10.95	ppb	#	49
62) Ethyl Benzene	8.931	91	817456	8.46	ppb		96
63) p- & m-Xylenes	9.071	91	1337686	17.22	ppb		91
64) o-Xylene	9.483	91	684501	8.99	ppb		96
65) Styrene	9.501	104	486156	10.05	ppb	#	82
66) Bromofrom	9.701	173	70640	14.11	ppb	#	95
68) p-Ethyltoluene	10.489	105	733018	5.19	ppb	#	97
69) Isopropylbenzene	9.890	105	844111	5.08	ppb	#	90
71) 1,1,2,2-Tetrachloroethane	10.198	83	106927	9.30	ppb	#	98
72) Bromobenzene	10.236	77	332299	6.78	ppb	#	77
73) trans-1,4-Dichloro-2-b...	10.265	75	88624	8.89	ppb	#	53
74) 1,2,3-Trichloropropane	10.268	110	36238	9.31	ppb	#	1
75) n-Propylbenzene	10.352	91	995418	5.20	ppb	#	90
76) 2-Chlorotoluene	10.448	91	615965	5.51	ppb		98
77) 4-Chlorotoluene	10.582	91	719598	5.65	ppb		95
78) 1,3,5-Trimethylbenzene	10.556	105	730031	5.44	ppb	#	58
79) tert-Butylbenzene	10.907	119	680002	5.68	ppb		95
80) 1,2,4-Trimethylbenzene	10.974	105	719985	5.61	ppb		92
81) sec-Butylbenzene	11.163	105	833638	5.67	ppb	#	90
82) 1,3-Dichlorobenzene	11.294	146	325158	6.61	ppb	#	90
83) p-Isopropyltoluene	11.340	119	736011	5.69	ppb		93
84) 1,4-Dichlorobenzene	11.413	146	327240m	7.02	ppb		
85) 1,2,3-Trimethylbenzene	11.439	105	618183	5.91	ppb	#	90
86) p-Diethylbenzene	11.776	105	378714	6.06	ppb	#	48
87) 1,2-Dichlorobenzene	11.805	146	282072	8.38	ppb	#	100
88) n-Butylbenzene	11.802	91	827646	6.12	ppb	#	90
89) 1,2-Dibromo-3-chloropr...	12.692	75	26510	11.20	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.666	119	639635	8.30	ppb	#	86
91) 1,2,4-Trichlorobenzene	13.654	180	169711	16.10	ppb	#	13
92) Hexachloro-1,3-Butadiene	13.837	225	103200	12.05	ppb	#	62
93) Naphthalene	13.941	128	302167	20.66	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.200	180	128426	24.30	ppb	#	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911785.D
Acq On : 20 May 2020 7:52 pm
Operator : TMP
Sample : SEQ-CAL4
Misc : QBQV9052020A
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 21 10:55:37 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911786.D
Acq On : 20 May 2020 8:20 pm
Operator : TMP
Sample : SEQ-CAL5
Misc : QBQV9052020A
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 10:53:44 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.743	70	162523	10.00	ppb		#-0.02
40) CHLOROBENZENE-d5 (ISTD)	8.795	117	672195	10.00	ppb		-0.02
67) 1,2-DICHLOROBENZENE-d4...	11.782	152	275292	10.00	ppb		#-0.02
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.427	65	222872	13.50	ppb		-0.02
Spiked Amount 10.000	Range 69 - 130		Recovery = 135.00%#				
51) Toluene-d8 (SURR)	7.287	98	856566	8.96	ppb		-0.02
Spiked Amount 10.000	Range 81 - 117		Recovery = 89.60%				
70) p-Bromofluorobenzene (...	10.082	95	379284	6.91	ppb		-0.02
Spiked Amount 10.000	Range 79 - 122		Recovery = 69.10%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.544	85	269862	17.60	ppb	#	1
3) Chloromethane	1.713	50	152466	11.13	ppb		93
4) Vinyl Chloride	1.812	62	250359	19.72	ppb	#	98
5) Bromomethane	2.126	94	30167	10.76	ppb		99
6) Chloroethane	2.236	64	112431	14.71	ppb	#	19
7) Trichlorofluoromethane	2.489	101	428383	15.02	ppb	#	20
8) Ethanol	2.634	45	46206m	2404.44	ppb		
9) Freon-113	3.000	101	270092	19.04	ppb	#	1
10) 1,1-Dichloroethylene	2.986	61	441308	17.98	ppb	#	84
11) Acrolein	2.875	56	18231	24.16	ppb	#	1
12) Acetone	3.003	43	40950	26.49	ppb	#	1
13) Iodomethane	3.131	142	255321	22.85	ppb	#	72
14) Methyl Acetate	3.317	43	84802	27.81	ppb	#	1
15) Carbon disulfide	3.218	76	674792	19.90	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.538	59	18868	28.78	ppb	#	1
17) Methylene Chloride	3.445	49	349280	23.19	ppb	#	76
18) Acrylonitrile	3.724	53	9187m	29.92	ppb		
19) trans-1,2-Dichloroethy...	3.727	61	410948	18.93	ppb	#	83
20) tert-Butyl Methyl Ethe...	3.724	73	804498	27.56	ppb	#	95
21) 1,1-Dichloroethane	4.122	63	595596	19.71	ppb	#	99
22) Vinyl Acetate	4.116	43	170680	17.56	ppb	#	1
23) Diisopropyl ether (DIPE)	4.171	45	972715	23.01	ppb	#	54
24) Ethyl-tert-Butyl ether...	4.508	59	1126425	25.12	ppb	#	99
25) cis-1,2-Dichloroethylene	4.648	61	522366	19.96	ppb	#	85
26) 2-Butanone	4.613	72	22512m	50.28	ppb		
27) 2,2-Dichloropropane	4.662	77	522957	16.55	ppb	#	92
28) Tetrahydrofuran	4.904	42	39359	33.81	ppb	#	1
29) Bromochloromethane	4.869	49	214528	26.92	ppb	#	47
30) Chloroform	4.962	83	656965	20.03	ppb	#	85
31) 1,1,1-Trichloroethane	5.139	97	646352	18.66	ppb	#	55
32) Cyclohexane	5.244	56	1157117	18.93	ppb	#	83
33) 1,1-Dichloropropylene	5.287	75	473158	19.10	ppb	#	53
35) Carbon Tetrachloride	5.302	117	561759	20.70	ppb	#	100
36) tert-Amyl alcohol (TAA)	5.441	59	173889	400.83	ppb	#	1
37) 1,2-Dichloroethane	5.499	62	456054	25.88	ppb	#	100
38) Benzene	5.467	78	1270172	19.59	ppb	#	95
39) tert-Amyl methyl ether...	5.595	73	940346	28.15	ppb	#	1
41) Trichloroethylene	6.098	95	362940	15.47	ppb	#	71
42) Methyl Cyclohexane	6.354	83	567439	17.11	ppb	#	52
43) Methyl Methacrylate	6.365	69	258920	21.85	ppb	#	97
44) Dibromomethane	6.415	93	169815	26.07	ppb	#	85
45) Bromodichloromethane	6.580	83	506640	23.73	ppb	#	96
46) 1,2-Dichloropropane	6.336	63	320404	20.31	ppb	#	94
47) 1,4-Dioxane	6.400	88	26451m	600.77	ppb		
49) cis-1,3-Dichloropropene	7.008	75	571867	24.34	ppb	#	57
50) 4-Methyl-2-Pentanone	7.124	43	169749	32.32	ppb	#	49
52) Toluene	7.359	91	1503307	17.92	ppb		99

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911786.D
Acq On : 20 May 2020 8:20 pm
Operator : TMP
Sample : SEQ-CAL5
Misc : QBQV9052020A
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 10:53:44 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

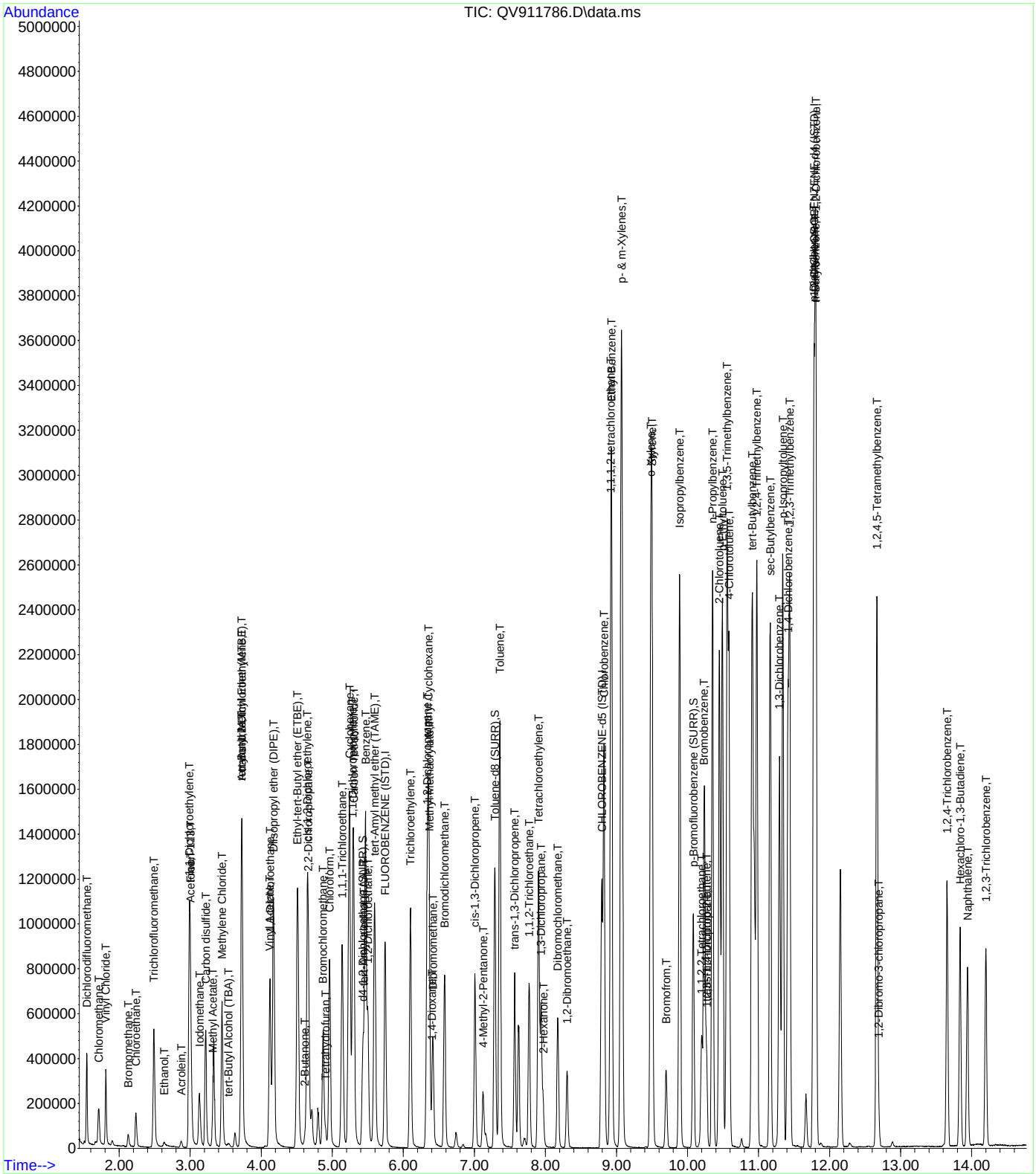
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.566	75	504895	27.82	ppb	#	98
54) 1,1,2-Trichloroethane	7.769	97	237609	27.66	ppb	#	1
55) 1,3-Dichloropropane	7.938	76	420506	27.28	ppb	#	68
56) Tetrachloroethylene	7.903	166	346324	13.74	ppb	#	100
57) 2-Hexanone	7.969	43	114994	33.24	ppb	#	1
58) Dibromochloromethane	8.173	129	303651	26.62	ppb	#	84
59) 1,2-Dibromoethane	8.304	107	232618	30.07	ppb		93
60) Chlorobenzene	8.824	112	974660	20.16	ppb	#	88
61) 1,1,1,2-tetrachloroethane	8.920	131	358691	24.34	ppb	#	48
62) Ethyl Benzene	8.928	91	1820619	18.43	ppb		95
63) p- & m-Xylenes	9.071	91	3006429	37.88	ppb		91
64) o-Xylene	9.483	91	1513842	19.46	ppb		95
65) Styrene	9.501	104	1085904	21.97	ppb	#	82
66) Bromofrom	9.701	173	164767	32.22	ppb	#	81
68) p-Ethyltoluene	10.492	105	1681756	11.74	ppb	#	97
69) Isopropylbenzene	9.887	105	1883819	11.18	ppb	#	91
71) 1,1,2,2-Tetrachloroethane	10.195	83	245386	21.05	ppb	#	97
72) Bromobenzene	10.230	77	748329	15.07	ppb	#	77
73) trans-1,4-Dichloro-2-b...	10.268	75	193262m	19.12	ppb		
74) 1,2,3-Trichloropropane	10.271	110	82002	20.78	ppb	#	1
75) n-Propylbenzene	10.352	91	2210826	11.39	ppb	#	90
76) 2-Chlorotoluene	10.448	91	1352566	11.95	ppb		98
77) 4-Chlorotoluene	10.585	91	1569167	12.16	ppb		95
78) 1,3,5-Trimethylbenzene	10.556	105	1592193	11.71	ppb	#	58
79) tert-Butylbenzene	10.910	119	1525390	12.57	ppb		96
80) 1,2,4-Trimethylbenzene	10.974	105	1603587	12.32	ppb		92
81) sec-Butylbenzene	11.166	105	1804559	12.12	ppb	#	90
82) 1,3-Dichlorobenzene	11.294	146	723290	14.51	ppb	#	89
83) p-Isopropyltoluene	11.343	119	1615932	12.32	ppb		93
84) 1,4-Dichlorobenzene	11.416	146	703015m	14.87	ppb		
85) 1,2,3-Trimethylbenzene	11.436	105	1490120	14.06	ppb	#	89
86) p-Diethylbenzene	11.779	105	834515	13.17	ppb	#	52
87) 1,2-Dichlorobenzene	11.805	146	606637	17.78	ppb	#	100
88) n-Butylbenzene	11.800	91	1765922	12.89	ppb		92
89) 1,2-Dibromo-3-chloropr...	12.692	75	59360	24.74	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.666	119	1475838	18.90	ppb	#	85
91) 1,2,4-Trichlorobenzene	13.654	180	374917	35.10	ppb	#	16
92) Hexachloro-1,3-Butadiene	13.840	225	219733	25.31	ppb	#	64
93) Naphthalene	13.941	128	665454	44.88	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.200	180	279745	52.23	ppb	#	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911786.D
Acq On : 20 May 2020 8:20 pm
Operator : TMP
Sample : SEQ-CAL5
Misc : QBQV9052020A
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 10:53:44 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911787.D
Acq On : 20 May 2020 8:47 pm
Operator : TMP
Sample : SEQ-CAL6
Misc : QBQV9052020A
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 21 10:51:54 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.743	70	164346	10.00	ppb		-0.02
40) CHLOROBENZENE-d5 (ISTD)	8.792	117	682335	10.00	ppb		-0.02
67) 1,2-DICHLOROBENZENE-d4...	11.782	152	266686	10.00	ppb		#-0.02
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.430	65	223434	13.38	ppb		-0.02
Spiked Amount 10.000	Range 69 - 130		Recovery = 133.80%#				
51) Toluene-d8 (SURR)	7.287	98	864957	8.92	ppb		-0.02
Spiked Amount 10.000	Range 81 - 117		Recovery = 89.20%				
70) p-Bromofluorobenzene (...	10.082	95	365774	6.88	ppb		-0.02
Spiked Amount 10.000	Range 79 - 122		Recovery = 68.80%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.544	85	499531	32.23	ppb	#	1
3) Chloromethane	1.710	50	371185	26.81	ppb		94
4) Vinyl Chloride	1.812	62	494956	38.55	ppb	#	98
5) Bromomethane	2.128	94	101192	33.25	ppb		97
6) Chloroethane	2.239	64	247562	32.04	ppb	#	19
7) Trichlorofluoromethane	2.489	101	897774	31.12	ppb	#	19
8) Ethanol	2.631	45	75745m	3897.85	ppb		
9) Freon-113	3.003	101	541061	37.72	ppb	#	1
10) 1,1-Dichloroethylene	2.989	61	916372	36.92	ppb	#	85
11) Acrolein	2.869	56	36624	47.99	ppb	#	1
12) Acetone	3.003	43	84688	54.17	ppb	#	1
13) Iodomethane	3.131	142	571810	50.61	ppb	#	72
14) Methyl Acetate	3.314	43	166764	54.08	ppb	#	1
15) Carbon disulfide	3.218	76	1464694	42.71	ppb	#	20
16) tert-Butyl Alcohol (TBA)	3.538	59	40708	61.41	ppb	#	1
17) Methylene Chloride	3.448	49	720213	47.28	ppb	#	74
18) Acrylonitrile	3.727	53	19087m	61.47	ppb		
19) trans-1,2-Dichloroethy...	3.727	61	869178	39.60	ppb	#	83
20) tert-Butyl Methyl Ethe...	3.724	73	1710090	57.93	ppb	#	95
21) 1,1-Dichloroethane	4.125	63	1238309	40.53	ppb	#	99
22) Vinyl Acetate	4.113	43	388213	39.51	ppb	#	1
23) Diisopropyl ether (DIPE)	4.174	45	1917523	44.85	ppb	#	40
24) Ethyl-tert-Butyl ether...	4.511	59	2285555	50.41	ppb	#	99
25) cis-1,2-Dichloroethylene	4.651	61	1107582	41.85	ppb	#	85
26) 2-Butanone	4.619	72	44373	98.01	ppb	#	1
27) 2,2-Dichloropropane	4.662	77	1048999	32.83	ppb	#	92
28) Tetrahydrofuran	4.904	42	81513	69.24	ppb	#	1
29) Bromochloromethane	4.872	49	431970	53.60	ppb	#	47
30) Chloroform	4.962	83	1388324	41.86	ppb	#	85
31) 1,1,1-Trichloroethane	5.139	97	1393604	39.79	ppb	#	55
32) Cyclohexane	5.241	56	2427865	39.28	ppb	#	82
33) 1,1-Dichloropropylene	5.287	75	985918	39.36	ppb	#	69
35) Carbon Tetrachloride	5.302	117	1173120	42.75	ppb	#	99
36) tert-Amyl alcohol (TAA)	5.441	59	343934	784.00	ppb	#	1
37) 1,2-Dichloroethane	5.502	62	961473	53.95	ppb	#	100
38) Benzene	5.470	78	2680764	40.88	ppb	#	94
39) tert-Amyl methyl ether...	5.595	73	1885973	55.83	ppb	#	1
41) Trichloroethylene	6.101	95	767190	32.21	ppb	#	71
42) Methyl Cyclohexane	6.354	83	1146301	34.04	ppb	#	50
43) Methyl Methacrylate	6.365	69	523173	43.49	ppb	#	96
44) Dibromomethane	6.415	93	346402	52.40	ppb	#	88
45) Bromodichloromethane	6.583	83	1062832	49.05	ppb	#	96
46) 1,2-Dichloropropane	6.333	63	674772	42.14	ppb	#	89
47) 1,4-Dioxane	6.394	88	46299m	1079.76	ppb		
49) cis-1,3-Dichloropropene	7.008	75	1184550	49.67	ppb	#	83
50) 4-Methyl-2-Pentanone	7.121	43	360102	67.55	ppb	#	54
52) Toluene	7.359	91	3083646	36.20	ppb		100

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911787.D
Acq On : 20 May 2020 8:47 pm
Operator : TMP
Sample : SEQ-CAL6
Misc : QBQV9052020A
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 21 10:51:54 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

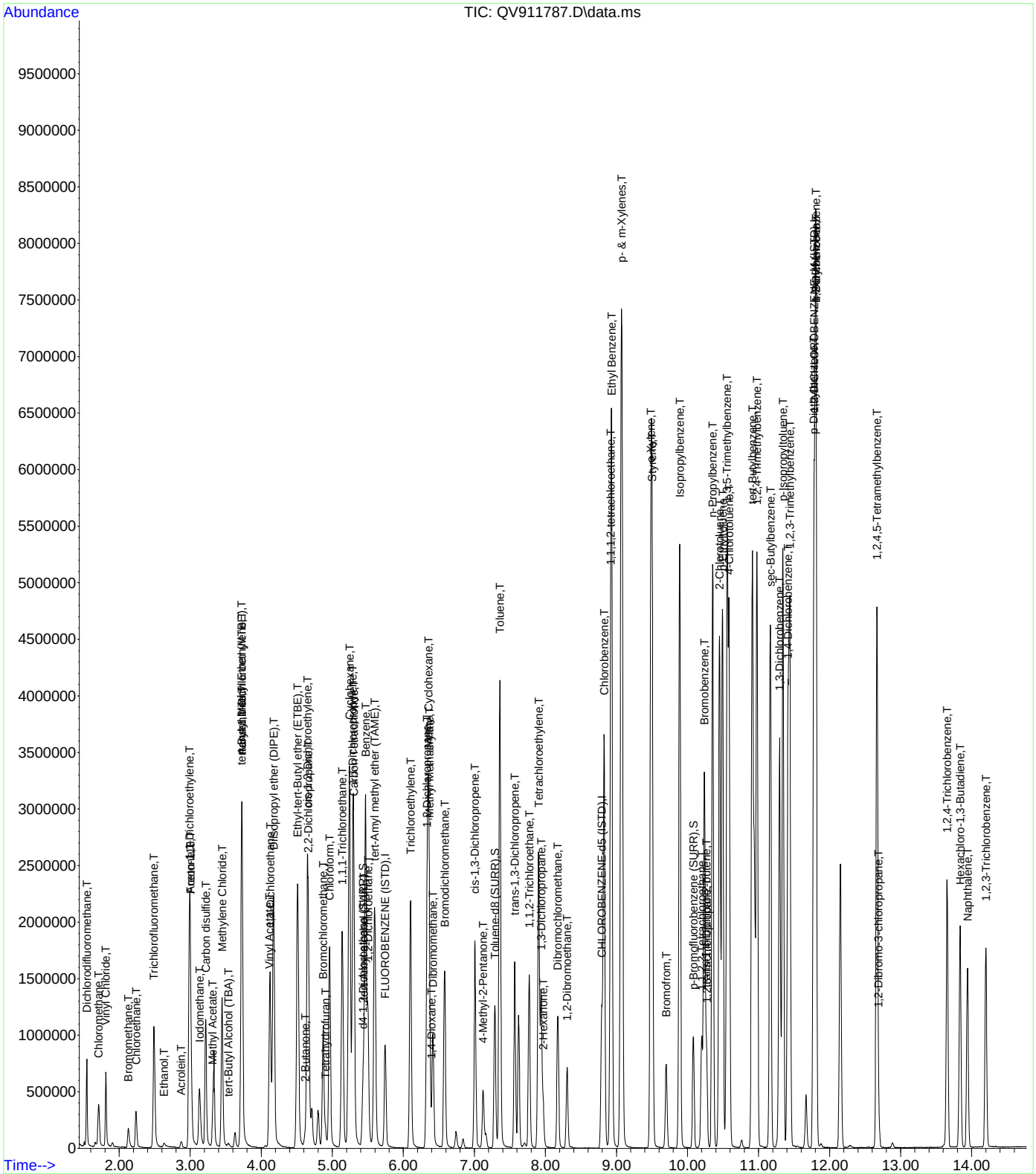
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.568	75	1053274	57.17	ppb	#	99
54) 1,1,2-Trichloroethane	7.772	97	489895	56.17	ppb	#	1
55) 1,3-Dichloropropane	7.940	76	883652	56.48	ppb	#	68
56) Tetrachloroethylene	7.906	166	718532	28.09	ppb	#	100
57) 2-Hexanone	7.967	43	232299	66.15	ppb	#	1
58) Dibromochloromethane	8.173	129	644791	55.69	ppb	#	85
59) 1,2-Dibromoethane	8.307	107	476691	60.70	ppb		92
60) Chlorobenzene	8.827	112	2019150	41.14	ppb	#	87
61) 1,1,1,2-tetrachloroethane	8.917	131	748699	50.05	ppb	#	48
62) Ethyl Benzene	8.931	91	3789711	37.79	ppb		95
63) p- & m-Xylenes	9.071	91	6155062	76.40	ppb		91
64) o-Xylene	9.483	91	3146822	39.84	ppb		95
65) Styrene	9.504	104	2198971	43.82	ppb	#	92
66) Bromofrom	9.701	173	353956	68.19	ppb	#	95
68) p-Ethyltoluene	10.495	105	3323666	23.96	ppb	#	97
69) Isopropylbenzene	9.890	105	3874600	23.74	ppb	#	91
71) 1,1,2,2-Tetrachloroethane	10.198	83	489958	43.38	ppb	#	65
72) Bromobenzene	10.236	77	1524926	31.69	ppb	#	76
73) trans-1,4-Dichloro-2-b...	10.265	75	367896m	37.56	ppb		
74) 1,2,3-Trichloropropane	10.271	110	162300	42.47	ppb	#	1
75) n-Propylbenzene	10.352	91	4513143	24.00	ppb	#	90
76) 2-Chlorotoluene	10.451	91	2772502	25.28	ppb		98
77) 4-Chlorotoluene	10.585	91	3254089	26.02	ppb		95
78) 1,3,5-Trimethylbenzene	10.556	105	3209234	24.37	ppb	#	57
79) tert-Butylbenzene	10.913	119	3071733	26.12	ppb		96
80) 1,2,4-Trimethylbenzene	10.977	105	3250647	25.77	ppb		92
81) sec-Butylbenzene	11.169	105	3634640	25.19	ppb	#	90
82) 1,3-Dichlorobenzene	11.297	146	1462520	30.28	ppb	#	89
83) p-Isopropyltoluene	11.343	119	3222455	25.36	ppb		92
84) 1,4-Dichlorobenzene	11.413	146	1432033m	31.27	ppb		
85) 1,2,3-Trimethylbenzene	11.439	105	2944178	28.67	ppb	#	89
86) p-Diethylbenzene	11.779	105	1645595	26.81	ppb	#	50
87) 1,2-Dichlorobenzene	11.805	146	1225800	37.08	ppb	#	100
88) n-Butylbenzene	11.805	91	3544003	26.70	ppb	#	91
89) 1,2-Dibromo-3-chloropr...	12.689	75	115434	49.66	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.665	119	2843357	37.59	ppb	#	85
91) 1,2,4-Trichlorobenzene	13.654	180	761824	73.61	ppb	#	17
92) Hexachloro-1,3-Butadiene	13.839	225	455056	54.10	ppb	#	65
93) Naphthalene	13.941	128	1322200	92.05	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.200	180	574356	110.70	ppb	#	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911787.D
Acq On : 20 May 2020 8:47 pm
Operator : TMP
Sample : SEQ-CAL6
Misc : QBQV9052020A
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 21 10:51:54 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911788.D
Acq On : 20 May 2020 9:14 pm
Operator : TMP
Sample : SEQ-CAL7
Misc : QBQV9052020A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 21 10:49:57 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.744	70	167592	10.00	ppb		#-0.02
40) CHLOROBENZENE-d5 (ISTD)	8.792	117	695126	10.00	ppb		-0.02
67) 1,2-DICHLOROBENZENE-d4...	11.782	152	254547	10.00	ppb		#-0.02
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.430	65	238220	13.99	ppb		-0.02
Spiked Amount 10.000	Range 69 - 130		Recovery = 139.90%#				
51) Toluene-d8 (SURR)	7.287	98	924562	9.36	ppb		-0.02
Spiked Amount 10.000	Range 81 - 117		Recovery = 93.60%				
70) p-Bromofluorobenzene (...	10.082	95	365010	7.19	ppb		-0.02
Spiked Amount 10.000	Range 79 - 122		Recovery = 71.90%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.544	85	1027806	65.02	ppb	#	1
3) Chloromethane	1.710	50	906898	64.23	ppb		93
4) Vinyl Chloride	1.812	62	1083428	82.75	ppb	#	98
5) Bromomethane	2.131	94	311836	86.41	ppb		97
6) Chloroethane	2.236	64	541693	68.75	ppb	#	19
7) Trichlorofluoromethane	2.489	101	2004987	68.16	ppb	#	20
8) Ethanol	2.631	45	130261m	6573.43	ppb		
9) Freon-113	3.003	101	1098733	75.11	ppb	#	1
10) 1,1-Dichloroethylene	2.989	61	1896269	74.92	ppb	#	85
11) Acrolein	2.870	56	79681	102.38	ppb	#	1
12) Acetone	3.000	43	179370	112.52	ppb	#	1
13) Iodomethane	3.131	142	1070745	92.93	ppb	#	72
14) Methyl Acetate	3.314	43	379653	120.74	ppb	#	1
15) Carbon disulfide	3.218	76	3083023	88.15	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.538	59	82458	121.98	ppb	#	1
17) Methylene Chloride	3.451	49	1475405	94.98	ppb	#	74
18) Acrylonitrile	3.721	53	38193m	120.62	ppb		
19) trans-1,2-Dichloroethy...	3.727	61	1817806	81.21	ppb	#	83
20) tert-Butyl Methyl Ethe...	3.724	73	3564048	118.39	ppb	#	95
21) 1,1-Dichloroethane	4.125	63	2352123	75.50	ppb	#	99
22) Vinyl Acetate	4.116	43	925375	92.35	ppb	#	1
23) Diisopropyl ether (DIPE)	4.174	45	3989144	91.50	ppb	#	52
24) Ethyl-tert-Butyl ether...	4.511	59	4680486	101.23	ppb	#	99
25) cis-1,2-Dichloroethylene	4.645	61	2263864	83.89	ppb	#	85
26) 2-Butanone	4.613	72	91420m	198.02	ppb		
27) 2,2-Dichloropropane	4.665	77	2110030	64.76	ppb	#	87
28) Tetrahydrofuran	4.898	42	170488	142.02	ppb	#	1
29) Bromochloromethane	4.869	49	850566	103.50	ppb	#	47
30) Chloroform	4.959	83	2914435	86.17	ppb	#	94
31) 1,1,1-Trichloroethane	5.139	97	2861201	80.11	ppb	#	55
32) Cyclohexane	5.244	56	4965825	78.78	ppb	#	82
33) 1,1-Dichloropropylene	5.290	75	2019831	79.07	ppb	#	69
35) Carbon Tetrachloride	5.305	117	2432549	86.93	ppb	#	53
36) tert-Amyl alcohol (TAA)	5.441	59	739944	1654.04	ppb	#	1
37) 1,2-Dichloroethane	5.499	62	1983773	109.16	ppb	#	100
38) Benzene	5.468	78	5554326	83.05	ppb	#	94
39) tert-Amyl methyl ether...	5.595	73	3887051	112.85	ppb	#	1
41) Trichloroethylene	6.101	95	1606456	66.21	ppb	#	71
42) Methyl Cyclohexane	6.354	83	2325445	67.79	ppb	#	49
43) Methyl Methacrylate	6.365	69	1077230	87.90	ppb	#	96
44) Dibromomethane	6.418	93	725589	107.73	ppb	#	49
45) Bromodichloromethane	6.580	83	2273904	103.01	ppb	#	96
46) 1,2-Dichloropropane	6.336	63	1394075	85.45	ppb	#	79
47) 1,4-Dioxane	6.400	88	70338	1704.14	ppb		96
49) cis-1,3-Dichloropropene	7.008	75	2416061	99.44	ppb	#	59
50) 4-Methyl-2-Pentanone	7.124	43	701781	129.22	ppb	#	49
52) Toluene	7.359	91	6410458	73.88	ppb		99

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911788.D
Acq On : 20 May 2020 9:14 pm
Operator : TMP
Sample : SEQ-CAL7
Misc : QBQV9052020A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 21 10:49:57 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

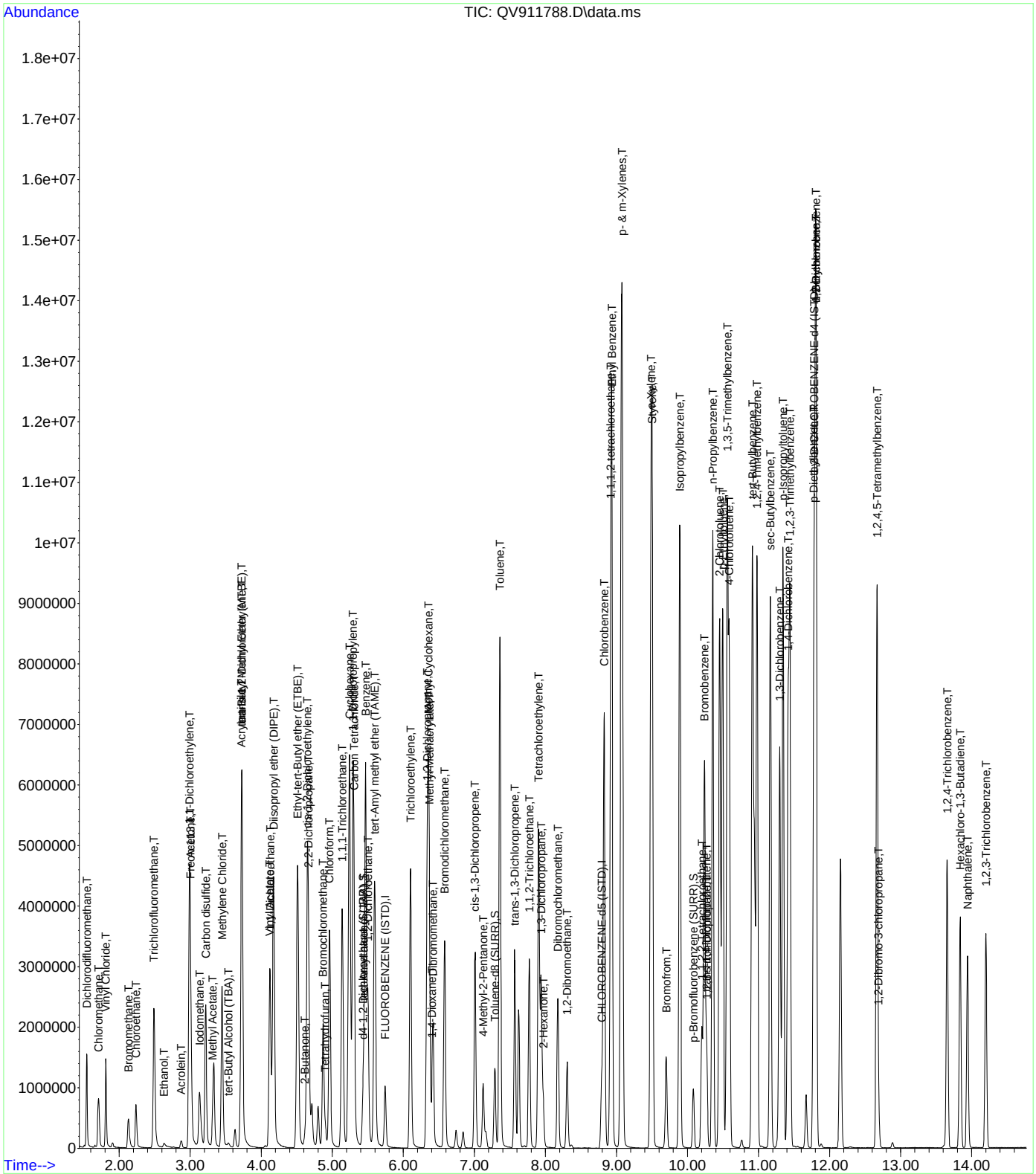
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.569	75	2116342	112.75	ppb	#	99
54) 1,1,2-Trichloroethane	7.772	97	986408	111.02	ppb	#	1
55) 1,3-Dichloropropane	7.941	76	1750595	109.84	ppb	#	95
56) Tetrachloroethylene	7.903	166	1442970	55.37	ppb	#	100
57) 2-Hexanone	7.970	43	474455	132.62	ppb	#	1
58) Dibromochloromethane	8.176	129	1324427	112.29	ppb	#	85
59) 1,2-Dibromoethane	8.307	107	952486	119.06	ppb		93
60) Chlorobenzene	8.827	112	4024206	80.48	ppb	#	87
61) 1,1,1,2-tetrachloroethane	8.920	131	1500200	98.43	ppb	#	48
62) Ethyl Benzene	8.934	91	7392275	72.36	ppb		95
63) p- & m-Xylenes	9.077	91	11946558	145.56	ppb		90
64) o-Xylene	9.486	91	6083127	75.61	ppb		95
65) Styrene	9.504	104	4246837	83.08	ppb	#	91
66) Bromofrom	9.704	173	717168	135.61	ppb	#	95
68) p-Ethyltoluene	10.498	105	6323180	47.76	ppb	#	97
69) Isopropylbenzene	9.893	105	7424310	47.66	ppb	#	91
71) 1,1,2,2-Tetrachloroethane	10.201	83	963324	89.36	ppb	#	65
72) Bromobenzene	10.236	77	2963341	64.52	ppb	#	76
73) trans-1,4-Dichloro-2-b...	10.268	75	814942m	87.18	ppb		
74) 1,2,3-Trichloropropane	10.271	110	318317	87.26	ppb	#	1
75) n-Propylbenzene	10.355	91	8611088	47.98	ppb	#	90
76) 2-Chlorotoluene	10.451	91	5294836	50.58	ppb		98
77) 4-Chlorotoluene	10.588	91	6193927	51.89	ppb		94
78) 1,3,5-Trimethylbenzene	10.562	105	6134015	48.81	ppb	#	57
79) tert-Butylbenzene	10.913	119	5842974	52.06	ppb		95
80) 1,2,4-Trimethylbenzene	10.977	105	6055929	50.31	ppb		92
81) sec-Butylbenzene	11.166	105	6888003	50.02	ppb	#	90
82) 1,3-Dichlorobenzene	11.300	146	2738644	59.41	ppb	#	88
83) p-Isopropyltoluene	11.343	119	6011787	49.56	ppb		92
84) 1,4-Dichlorobenzene	11.416	146	2665755	60.99	ppb	#	87
85) 1,2,3-Trimethylbenzene	11.439	105	5506926	56.19	ppb	#	89
86) p-Diethylbenzene	11.779	105	3103972	52.97	ppb	#	50
87) 1,2-Dichlorobenzene	11.805	146	2289412	72.56	ppb	#	100
88) n-Butylbenzene	11.805	91	6790070	53.59	ppb		91
89) 1,2-Dibromo-3-chloropr...	12.689	75	225610	101.69	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.669	119	5364106	74.29	ppb	#	85
91) 1,2,4-Trichlorobenzene	13.657	180	1497669	151.62	ppb	#	16
92) Hexachloro-1,3-Butadiene	13.840	225	888692	110.70	ppb	#	66
93) Naphthalene	13.941	128	2627329	191.63	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.200	180	1129240	228.02	ppb	#	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911788.D
Acq On : 20 May 2020 9:14 pm
Operator : TMP
Sample : SEQ-CAL7
Misc : QBQV9052020A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 21 10:49:57 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911789.D
Acq On : 20 May 2020 9:42 pm
Operator : TMP
Sample : SEQ-CAL8
Misc : QBQV9052020A
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 21 10:48:03 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.740	70	172174	10.00	ppb		#-0.02
40) CHLOROBENZENE-d5 (ISTD)	8.795	117	685439	10.00	ppb		-0.02
67) 1,2-DICHLOROBENZENE-d4...	11.782	152	240339	10.00	ppb		#-0.02
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.430	65	229642	13.13	ppb		-0.02
Spiked Amount 10.000	Range 69 - 130		Recovery = 131.30%#				
51) Toluene-d8 (SURR)	7.286	98	907111	9.31	ppb		-0.02
Spiked Amount 10.000	Range 81 - 117		Recovery = 93.10%				
70) p-Bromofluorobenzene (...	10.085	95	357809	7.46	ppb		-0.02
Spiked Amount 10.000	Range 79 - 122		Recovery = 74.60%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.541	85	1573281	96.88	ppb	#	1
3) Chloromethane	1.710	50	1553169	107.07	ppb		94
4) Vinyl Chloride	1.812	62	1709247	127.07	ppb	#	98
5) Bromomethane	2.128	94	624035	145.62	ppb		97
6) Chloroethane	2.239	64	829183	102.43	ppb	#	25
7) Trichlorofluoromethane	2.489	101	3221974	106.61	ppb	#	20
8) Ethanol	2.637	45	208276	10230.63	ppb	#	1
9) Freon-113	3.000	101	1716105	114.19	ppb	#	1
10) 1,1-Dichloroethylene	2.989	61	2996429	115.24	ppb	#	85
11) Acrolein	2.872	56	124251	155.40	ppb	#	1
12) Acetone	3.003	43	279315	170.55	ppb	#	1
13) Iodomethane	3.131	142	1447087	122.25	ppb	#	70
14) Methyl Acetate	3.317	43	592625	183.46	ppb	#	1
15) Carbon disulfide	3.218	76	4692492	130.60	ppb	#	20
16) tert-Butyl Alcohol (TBA)	3.535	59	134252	193.31	ppb	#	1
17) Methylene Chloride	3.448	49	2248321	140.88	ppb	#	74
18) Acrylonitrile	3.718	53	49190	151.21	ppb	#	1
19) trans-1,2-Dichloroethy...	3.730	61	2773163	120.59	ppb	#	89
20) tert-Butyl Methyl Ethe...	3.721	73	5402077	174.67	ppb	#	95
21) 1,1-Dichloroethane	4.125	63	3567896	111.47	ppb	#	99
22) Vinyl Acetate	4.113	43	1526302	148.26	ppb	#	1
23) Diisopropyl ether (DIPE)	4.171	45	5865205	130.96	ppb	#	52
24) Ethyl-tert-Butyl ether...	4.511	59	7104730	149.57	ppb	#	99
25) cis-1,2-Dichloroethylene	4.648	61	3432353	123.81	ppb	#	85
26) 2-Butanone	4.613	72	136883	288.60	ppb	#	1
27) 2,2-Dichloropropane	4.662	77	3068387	91.67	ppb	#	87
28) Tetrahydrofuran	4.901	42	258457	209.57	ppb	#	1
29) Bromochloromethane	4.869	49	1260577	149.31	ppb	#	46
30) Chloroform	4.962	83	4336267	124.80	ppb	#	85
31) 1,1,1-Trichloroethane	5.139	97	4381136	119.41	ppb	#	55
32) Cyclohexane	5.246	56	7511588	115.99	ppb	#	82
33) 1,1-Dichloropropylene	5.290	75	3121153	118.94	ppb	#	59
35) Carbon Tetrachloride	5.302	117	3742081	130.17	ppb	#	100
36) tert-Amyl alcohol (TAA)	5.441	59	1127313	2452.89	ppb	#	16
37) 1,2-Dichloroethane	5.502	62	2994883	160.42	ppb	#	100
38) Benzene	5.470	78	8358878	121.67	ppb	#	95
39) tert-Amyl methyl ether...	5.598	73	5868438	165.84	ppb	#	1
41) Trichloroethylene	6.101	95	2463594	102.96	ppb	#	70
42) Methyl Cyclohexane	6.357	83	3575059	105.69	ppb	#	51
43) Methyl Methacrylate	6.365	69	1623292	134.33	ppb	#	96
44) Dibromomethane	6.418	93	1055547	158.94	ppb	#	85
45) Bromodichloromethane	6.580	83	3429497	157.56	ppb	#	96
46) 1,2-Dichloropropane	6.333	63	2123940	132.03	ppb	#	89
47) 1,4-Dioxane	6.397	88	128164	4017.37	ppb	#	86
49) cis-1,3-Dichloropropene	7.010	75	3633592	151.66	ppb	#	60
50) 4-Methyl-2-Pentanone	7.124	43	1125782	210.22	ppb	#	53
52) Toluene	7.356	91	9577436	111.93	ppb		100

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911789.D
Acq On : 20 May 2020 9:42 pm
Operator : TMP
Sample : SEQ-CAL8
Misc : QBQV9052020A
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 21 10:48:03 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

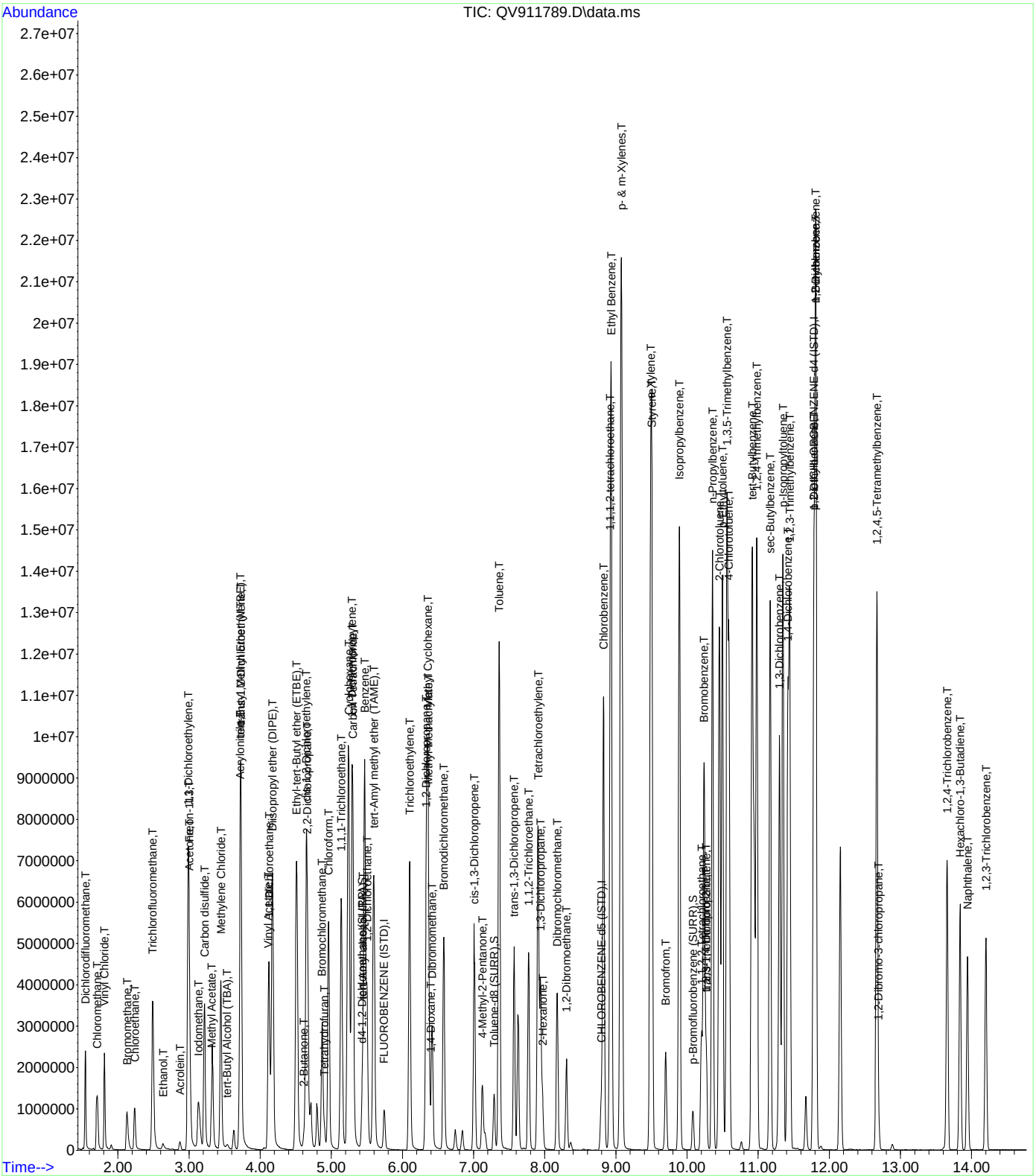
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.568	75	3219501	173.95	ppb	#	99
54) 1,1,2-Trichloroethane	7.772	97	1497334	170.91	ppb	#	1
55) 1,3-Dichloropropane	7.940	76	2705236	172.13	ppb	#	68
56) Tetrachloroethylene	7.908	166	2214378	86.16	ppb	#	100
57) 2-Hexanone	7.969	43	706719	200.33	ppb	#	1
58) Dibromochloromethane	8.176	129	2002714	172.20	ppb	#	84
59) 1,2-Dibromoethane	8.306	107	1457512	184.76	ppb		93
60) Chlorobenzene	8.827	112	6097972	123.67	ppb	#	87
61) 1,1,1,2-tetrachloroethane	8.920	131	2308997	153.64	ppb	#	48
62) Ethyl Benzene	8.934	91	11356851	112.75	ppb		94
63) p- & m-Xylenes	9.077	91	17940182	221.67	ppb		91
64) o-Xylene	9.489	91	9223197	116.25	ppb		95
65) Styrene	9.507	104	6420137	127.37	ppb	#	91
66) Bromofrom	9.701	173	1092516	209.51	ppb	#	81
68) p-Ethyltoluene	10.498	105	9317021	74.53	ppb	#	97
69) Isopropylbenzene	9.893	105	11016765	74.90	ppb	#	90
71) 1,1,2,2-Tetrachloroethane	10.204	83	1429094	140.40	ppb	#	65
72) Bromobenzene	10.236	77	4484638	103.42	ppb	#	75
73) trans-1,4-Dichloro-2-b...	10.268	75	1054210m	119.44	ppb		
74) 1,2,3-Trichloropropane	10.268	110	471431	136.87	ppb	#	1
75) n-Propylbenzene	10.358	91	12687911	74.88	ppb	#	90
76) 2-Chlorotoluene	10.457	91	7920659	80.13	ppb		97
77) 4-Chlorotoluene	10.588	91	9257973	82.15	ppb		94
78) 1,3,5-Trimethylbenzene	10.561	105	9171731	77.30	ppb	#	56
79) tert-Butylbenzene	10.916	119	8719629	82.29	ppb		95
80) 1,2,4-Trimethylbenzene	10.980	105	9135469	80.38	ppb		91
81) sec-Butylbenzene	11.169	105	10135642	77.95	ppb	#	89
82) 1,3-Dichlorobenzene	11.300	146	4059039	93.26	ppb	#	88
83) p-Isopropyltoluene	11.349	119	8962403	78.25	ppb		91
84) 1,4-Dichlorobenzene	11.419	146	3989479	96.68	ppb	#	87
85) 1,2,3-Trimethylbenzene	11.442	105	8254968	89.21	ppb	#	88
86) p-Diethylbenzene	11.782	105	4636620	83.81	ppb	#	51
87) 1,2-Dichlorobenzene	11.808	146	3360643	112.81	ppb	#	100
88) n-Butylbenzene	11.808	91	9961994	83.27	ppb		92
89) 1,2-Dibromo-3-chloropr...	12.692	75	341234	162.90	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.668	119	8000612	117.36	ppb	#	84
91) 1,2,4-Trichlorobenzene	13.656	180	2251738	241.44	ppb	#	15
92) Hexachloro-1,3-Butadiene	13.839	225	1353787	178.60	ppb	#	66
93) Naphthalene	13.941	128	3860779	298.24	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.203	180	1687135	360.81	ppb	#	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911789.D
Acq On : 20 May 2020 9:42 pm
Operator : TMP
Sample : SEQ-CAL8
Misc : QBQV9052020A
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 21 10:48:03 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911790.D
Acq On : 20 May 2020 10:09 pm
Operator : TMP
Sample : SEQ-CAL9
Misc : QBQV9052020A
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 21 10:46:36 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.743	70	174651	10.00	ppb		#-0.02
40) CHLOROBENZENE-d5 (ISTD)	8.795	117	710360	10.00	ppb		-0.02
67) 1,2-DICHLOROBENZENE-d4...	11.788	152	245264	10.00	ppb		#-0.01
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.430	65	238348	13.43	ppb		-0.02
Spiked Amount 10.000	Range 69 - 130		Recovery = 134.30%#				
51) Toluene-d8 (SURR)	7.289	98	943849	9.35	ppb		-0.02
Spiked Amount 10.000	Range 81 - 117		Recovery = 93.50%				
70) p-Bromofluorobenzene (...	10.082	95	363241	7.42	ppb		-0.02
Spiked Amount 10.000	Range 79 - 122		Recovery = 74.20%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.544	85	2023654	122.84	ppb	#	1
3) Chloromethane	1.710	50	2204235	149.80	ppb		94
4) Vinyl Chloride	1.812	62	2301247	168.66	ppb	#	98
5) Bromomethane	2.128	94	1040451	209.11	ppb		98
6) Chloroethane	2.239	64	1172700	142.81	ppb	#	20
7) Trichlorofluoromethane	2.492	101	4262840	139.06	ppb	#	19
8) Ethanol	2.634	45	314962	15251.69	ppb	#	1
9) Freon-113	3.003	101	2237805	146.79	ppb	#	1
10) 1,1-Dichloroethylene	2.986	61	3950558	149.78	ppb	#	85
11) Acrolein	2.872	56	162884	200.83	ppb	#	1
12) Acetone	3.003	43	384512	231.46	ppb	#	1
13) Iodomethane	3.137	142	1861779	155.05	ppb	#	72
14) Methyl Acetate	3.317	43	760455	232.07	ppb	#	1
15) Carbon disulfide	3.218	76	6423746	176.24	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.535	59	183947	261.11	ppb	#	1
17) Methylene Chloride	3.451	49	3049615	188.38	ppb	#	73
18) Acrylonitrile	3.718	53	66301	200.92	ppb	#	1
19) trans-1,2-Dichloroethy...	3.730	61	3763351	161.33	ppb	#	83
20) tert-Butyl Methyl Ethe...	3.721	73	7210730	229.85	ppb	#	95
21) 1,1-Dichloroethane	4.125	63	4862211	149.75	ppb	#	99
22) Vinyl Acetate	4.116	43	2079414	199.13	ppb	#	1
23) Diisopropyl ether (DIPE)	4.174	45	7813968	171.99	ppb	#	52
24) Ethyl-tert-Butyl ether...	4.511	59	9556737	198.33	ppb	#	99
25) cis-1,2-Dichloroethylene	4.651	61	4639892	164.99	ppb	#	85
26) 2-Butanone	4.616	72	187453	389.62	ppb	#	1
27) 2,2-Dichloropropane	4.665	77	4070304	119.88	ppb	#	91
28) Tetrahydrofuran	4.901	42	345952	276.54	ppb	#	1
29) Bromochloromethane	4.872	49	1717789	200.58	ppb	#	46
30) Chloroform	4.962	83	5861312	166.30	ppb	#	85
31) 1,1,1-Trichloroethane	5.139	97	5836380	156.81	ppb	#	72
32) Cyclohexane	5.244	56	9836613	149.74	ppb	#	82
33) 1,1-Dichloropropylene	5.290	75	4162935	156.39	ppb	#	61
35) Carbon Tetrachloride	5.305	117	4954425	169.90	ppb	#	53
36) tert-Amyl alcohol (TAA)	5.441	59	1504996	3228.23	ppb	#	1
37) 1,2-Dichloroethane	5.502	62	4007007	211.59	ppb	#	98
38) Benzene	5.470	78	11225139	161.07	ppb	#	95
39) tert-Amyl methyl ether...	5.598	73	7875178	219.39	ppb	#	1
41) Trichloroethylene	6.101	95	3338887	134.65	ppb	#	69
42) Methyl Cyclohexane	6.357	83	4599914	131.22	ppb	#	51
43) Methyl Methacrylate	6.365	69	2137093	170.65	ppb	#	97
44) Dibromomethane	6.415	93	1331040	193.39	ppb	#	88
45) Bromodichloromethane	6.577	83	4693682	208.07	ppb	#	96
46) 1,2-Dichloropropane	6.333	63	2797302	167.79	ppb	#	89
47) 1,4-Dioxane	6.403	88	178067	Below Cal		#	86
49) cis-1,3-Dichloropropene	7.010	75	4909251	197.72	ppb	#	52
50) 4-Methyl-2-Pentanone	7.124	43	1402872	252.77	ppb	#	48
52) Toluene	7.362	91	12979838	146.37	ppb		99

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911790.D
Acq On : 20 May 2020 10:09 pm
Operator : TMP
Sample : SEQ-CAL9
Misc : QBQV9052020A
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 21 10:46:36 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

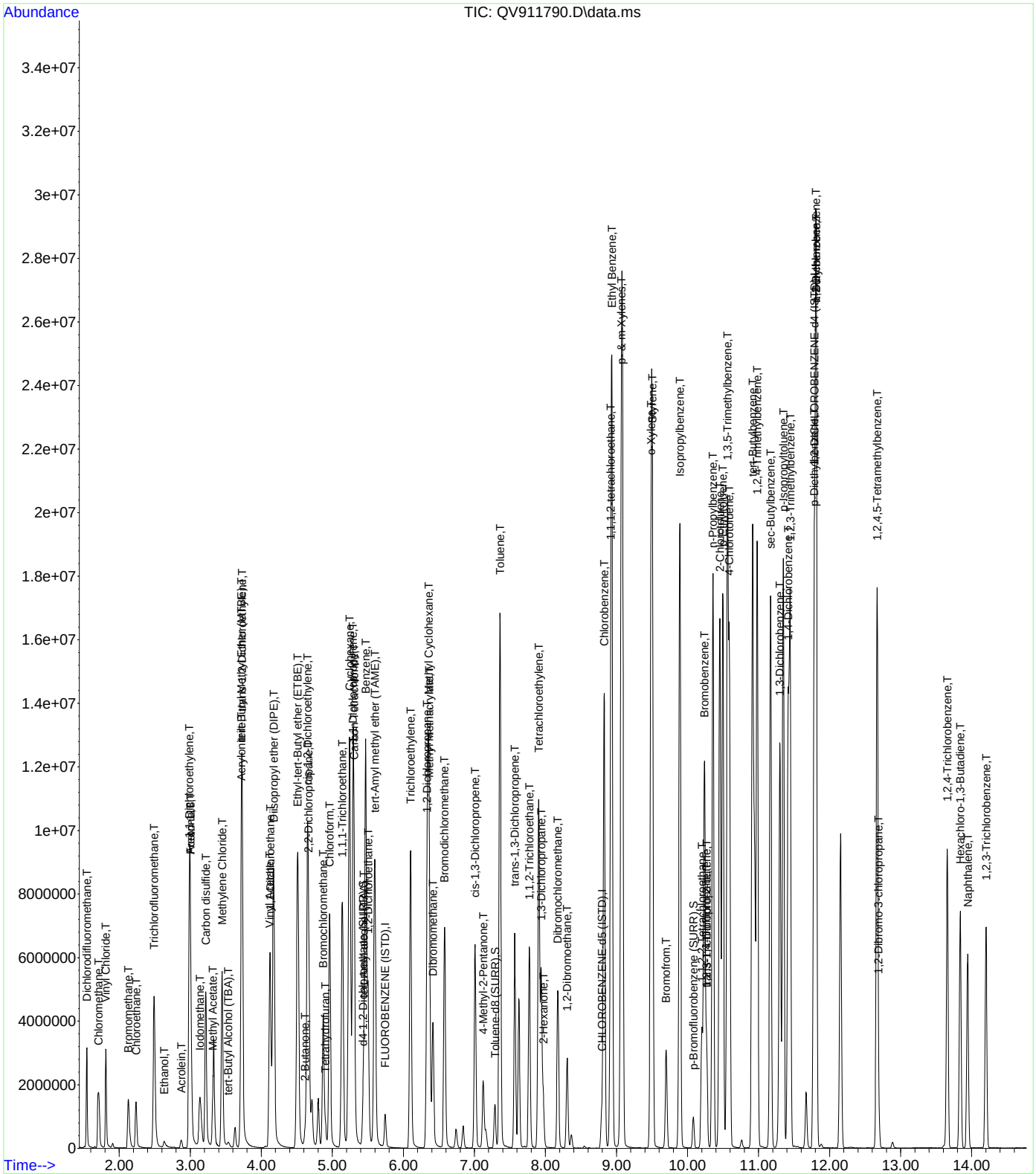
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.568	75	4291479	223.74	ppb	#	99
54) 1,1,2-Trichloroethane	7.772	97	1998645	220.13	ppb	#	1
55) 1,3-Dichloropropane	7.940	76	3551714	218.06	ppb	#	68
56) Tetrachloroethylene	7.905	166	2975901	111.73	ppb	#	100
57) 2-Hexanone	7.969	43	923409	252.57	ppb	#	1
58) Dibromochloromethane	8.173	129	2705375	224.46	ppb	#	85
59) 1,2-Dibromoethane	8.306	107	1932219	236.35	ppb		93
60) Chlorobenzene	8.827	112	8107696	158.66	ppb	#	86
61) 1,1,1,2-tetrachloroethane	8.920	131	3036630	194.97	ppb	#	49
62) Ethyl Benzene	8.934	91	14705908	140.87	ppb		95
63) p- & m-Xylenes	9.068	91	22047775m	262.87	ppb		
64) o-Xylene	9.486	91	12212082	148.53	ppb		95
65) Styrene	9.507	104	8461724	161.99	ppb	#	91
66) Bromofrom	9.698	173	1434441	265.43	ppb	#	95
68) p-Ethyltoluene	10.495	105	12274030	96.21	ppb	#	97
69) Isopropylbenzene	9.893	105	14439807	96.20	ppb	#	90
71) 1,1,2,2-Tetrachloroethane	10.201	83	1874493	180.46	ppb	#	97
72) Bromobenzene	10.236	77	5913960	133.65	ppb	#	75
73) trans-1,4-Dichloro-2-b...	10.268	75	1330680m	147.74	ppb		
74) 1,2,3-Trichloropropane	10.268	110	612562	174.27	ppb	#	1
75) n-Propylbenzene	10.355	91	16068939	92.93	ppb	#	90
76) 2-Chlorotoluene	10.457	91	10546616	104.56	ppb		97
77) 4-Chlorotoluene	10.588	91	12007240	104.40	ppb		94
78) 1,3,5-Trimethylbenzene	10.562	105	11890692	98.20	ppb	#	56
79) tert-Butylbenzene	10.916	119	11222099	103.78	ppb		95
80) 1,2,4-Trimethylbenzene	10.980	105	11840469	102.08	ppb		91
81) sec-Butylbenzene	11.169	105	13032153	98.21	ppb	#	89
82) 1,3-Dichlorobenzene	11.300	146	5323299	119.86	ppb	#	87
83) p-Isopropyltoluene	11.349	119	11685238	99.98	ppb		92
84) 1,4-Dichlorobenzene	11.419	146	5210482	123.73	ppb	#	87
85) 1,2,3-Trimethylbenzene	11.445	105	10883949	115.25	ppb	#	88
86) p-Diethylbenzene	11.782	105	6128449	108.55	ppb	#	51
87) 1,2-Dichlorobenzene	11.808	146	4375013	143.91	ppb	#	100
88) n-Butylbenzene	11.811	91	13196315	108.09	ppb		91
89) 1,2-Dibromo-3-chloropr...	12.689	75	452967	211.90	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.668	119	10557248	151.75	ppb	#	84
91) 1,2,4-Trichlorobenzene	13.656	180	2974896	312.57	ppb	#	15
92) Hexachloro-1,3-Butadiene	13.839	225	1766797	228.40	ppb	#	65
93) Naphthalene	13.944	128	5103737	386.35	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.203	180	2226133	466.52	ppb	#	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911790.D
Acq On : 20 May 2020 10:09 pm
Operator : TMP
Sample : SEQ-CAL9
Misc : QBQV9052020A
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 21 10:46:36 2020
Quant Method : C:\msdchem\1\methods\VQ9LO026.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon May 11 12:54:23 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619337.D
Acq On : 18 May 2020 9:15 pm
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL1
Misc : QBQV6051820A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 19 10:48:35 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.123	70	56788	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	9.191	117	197542	10.00	ppb		0.01
70) 1,2-DICHLOROBENZENE-d4...	12.174	152	82061	10.00	ppb		0.02
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.811	65	77045	10.84	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 108.40%				
53) Toluene-d8 (SURR)	7.683	98	273715	8.63	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 86.30%				
73) p-Bromofluorobenzene (...	10.477	95	94042	9.94	ppb		0.01
Spiked Amount 10.000	Range 79 - 122		Recovery = 99.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.604	85	2238m	0.44	ppb		
3) Chloromethane	1.821	50	4405m	0.36	ppb		
4) Vinyl Chloride	1.905	62	3256m	0.44	ppb		
5) Bromomethane	2.302	94	1101m	2.08	ppb		
6) Chloroethane	2.394	64	2195m	0.57	ppb		
7) Trichlorofluoromethane	2.678	101	4018	0.39	ppb		100
8) Ethanol	2.876	45	267	15.42	ppb	#	1
9) Freon-113	3.248	101	2552m	0.44	ppb		
10) 1,1-Dichloroethylene	3.229	61	4387	0.44	ppb	#	83
11) Acrolein	3.129	56	346m	0.71	ppb		
12) Acetone	3.260	43	1546	1.17	ppb		100
13) Iodomethane	3.374	142	1665	2.69	ppb		96
14) Allyl Chloride	3.610	76	1445	0.43	ppb	#	100
15) Methyl Acetate	3.591	43	2092	0.92	ppb	#	97
16) Carbon disulfide	3.460	76	6618	0.44	ppb		99
17) tert-Butyl Alcohol (TBA)	3.836	59	383m	0.34	ppb		
18) Methylene Chloride	3.741	49	5776	0.65	ppb	#	90
19) Acrylonitrile	3.950	53	588	0.64	ppb	#	67
20) trans-1,2-Dichloroethy...	4.027	61	4228	0.44	ppb		98
21) tert-Butyl Methyl Ethe...	4.016	73	7028	0.51	ppb	#	99
22) 1,1-Dichloroethane	4.450	63	5718	0.46	ppb	#	97
23) Vinyl Acetate	4.459	43	4873	0.67	ppb	#	100
24) Diisopropyl ether (DIPE)	4.498	45	13156	0.55	ppb	#	94
25) Ethyl-tert-Butyl ether...	4.851	59	11985	0.57	ppb	#	85
26) cis-1,2-Dichloroethylene	5.007	61	5295	0.46	ppb	#	85
28) 2,2-Dichloropropane	5.015	77	3657	0.35	ppb	#	81
29) Tetrahydrofuran	5.257	42	1024	1.05	ppb	#	75
30) Bromochloromethane	5.232	49	2905	0.63	ppb		99
31) Chloroform	5.335	83	4979	0.40	ppb	#	100
32) 1,1,1-Trichloroethane	5.505	97	4491	0.36	ppb	#	82
33) Cyclohexane	5.591	56	6125m	0.73	ppb		
34) 1,1-Dichloropropylene	5.652	75	3824	0.39	ppb		96
36) Carbon Tetrachloride	5.661	117	3721	0.33	ppb	#	52
37) tert-Amyl alcohol (TAA)	5.830	59	2406	6.48	ppb		93
38) 1,2-Dichloroethane	5.883	62	3930	0.47	ppb		99
39) Benzene	5.839	78	10854	0.41	ppb	#	1
40) tert-Amyl methyl ether...	5.961	73	8614	0.52	ppb	#	90
42) Trichloroethylene	6.481	95	3058	0.39	ppb		92
43) Methyl Cyclohexane	6.718	83	4879	0.43	ppb	#	76
44) Methyl Methacrylate	6.765	69	3528	1.23	ppb	#	87
45) Dibromomethane	6.810	93	1470	0.47	ppb		95
46) Bromodichloromethane	6.985	83	3645	0.39	ppb	#	98
47) 1,2-Dichloropropane	6.726	63	3250	0.45	ppb	#	83
48) 1,4-Dioxane	6.801	88	179m	8.07	ppb		
49) 2-nitropropane	7.160	43	827	0.70	ppb	#	100
51) cis-1,3-Dichloropropene	7.411	75	4439	0.39	ppb	#	90
52) 4-Methyl-2-Pentanone	7.533	43	2783	0.61	ppb	#	75
54) Toluene	7.750	91	13543	0.39	ppb		100

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619337.D
Acq On : 18 May 2020 9:15 pm
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL1
Misc : QBQV6051820A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 19 10:48:35 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration

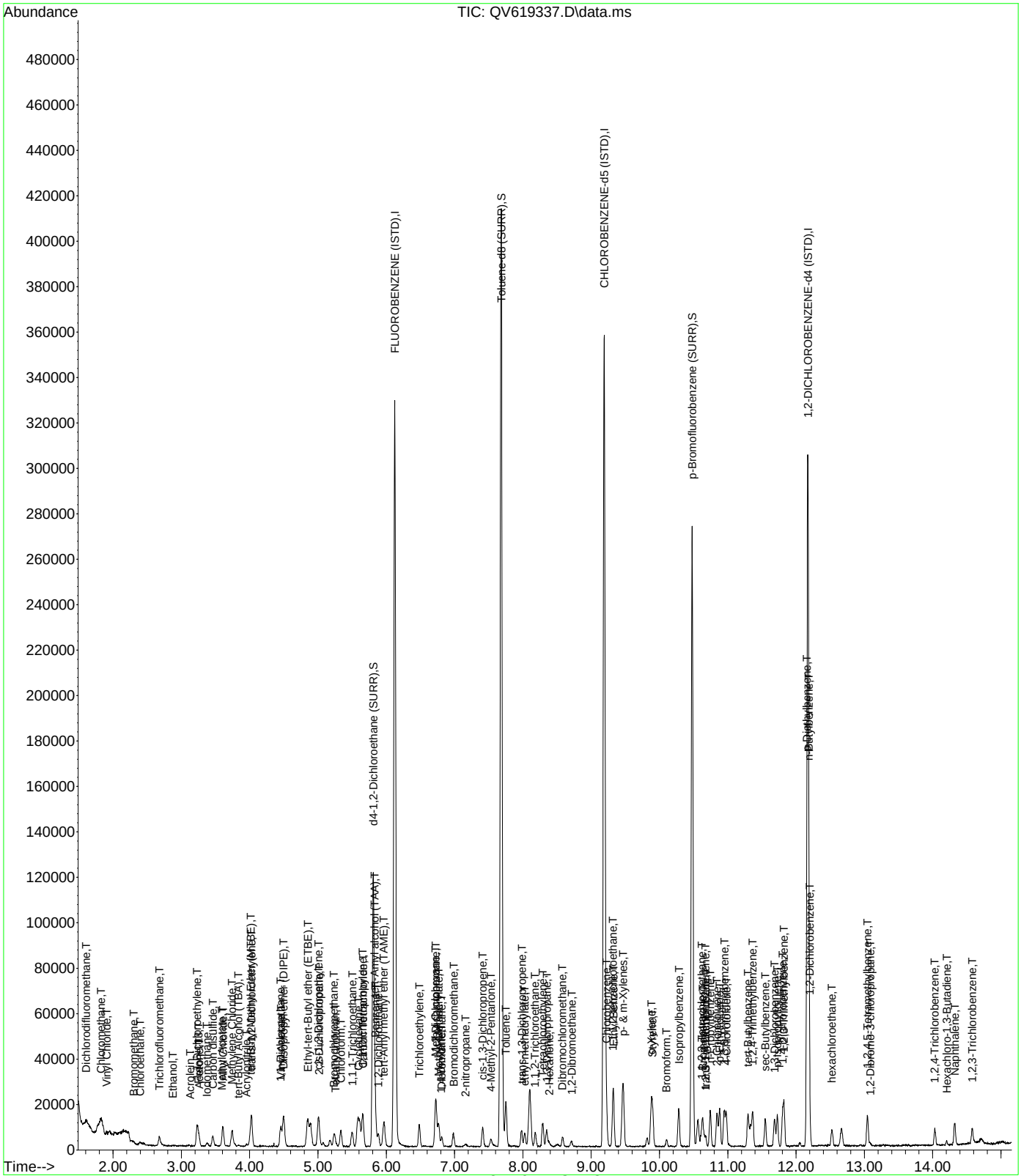
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
55) trans-1,3-Dichloropropene	7.984	75	3616	0.36 ppb	#	88
56) ethyl methacrylate	8.026	69	3066	0.46 ppb	#	100
57) 1,1,2-Trichloroethane	8.176	97	1998m	0.42 ppb		
58) 1,3-Dichloropropane	8.348	76	3491	0.48 ppb		90
59) Tetrachloroethylene	8.293	166	3057	0.29 ppb	#	77
60) 2-Hexanone	8.384	43	1328	0.49 ppb	#	88
61) Dibromochloromethane	8.576	129	2322m	0.37 ppb		
62) 1,2-Dibromoethane	8.716	107	2027m	0.49 ppb		
63) Chlorobenzene	9.225	112	7601	0.41 ppb	#	73
64) 1,1,1,2-tetrachloroethane	9.317	131	2685	0.38 ppb	#	50
65) Ethyl Benzene	9.328	91	13266	0.43 ppb		98
66) p- & m-Xylenes	9.467	91	20703	0.87 ppb		97
67) o-Xylene	9.881	91	10649m	0.44 ppb		
68) Styrene	9.898	104	7649	0.43 ppb	#	76
69) Bromoform	10.101	173	1426	0.46 ppb		99
71) p-Ethyltoluene	10.877	105	11173m	0.34 ppb		
72) Isopropylbenzene	10.285	105	12387	0.36 ppb		96
74) 1,1,2,2-Tetrachloroethane	10.616	83	2382	0.57 ppb	#	100
75) Bromobenzene	10.633	77	5015	0.39 ppb		91
76) trans-1,4-Dichloro-2-b...	10.671	75	3187m	0.91 ppb		
77) 1,2,3-Trichloropropane	10.677	110	644	0.47 ppb		65
78) n-Propylbenzene	10.744	91	13937	0.35 ppb		98
79) 2-Chlorotoluene	10.841	91	9144	0.33 ppb		100
80) 4-Chlorotoluene	10.978	91	10142	0.35 ppb		98
81) 1,3,5-Trimethylbenzene	10.950	105	9696	0.32 ppb	#	64
82) tert-Butylbenzene	11.295	119	10027	0.33 ppb		92
83) 1,2,4-Trimethylbenzene	11.361	105	9576	0.33 ppb		96
84) sec-Butylbenzene	11.548	105	9844	0.33 ppb		99
85) 1,3-Dichlorobenzene	11.684	146	5616m	0.33 ppb		
86) p-Isopropyltoluene	11.726	119	9137	0.30 ppb		97
87) 1,4-Dichlorobenzene	11.801	146	5681	0.34 ppb		96
88) 1,2,3-Trimethylbenzene	11.821	105	9875	0.38 ppb		98
89) p-Diethylbenzene	12.157	105	4485	0.34 ppb	#	95
90) 1,2-Dichlorobenzene	12.199	146	5221	0.38 ppb	#	90
91) n-Butylbenzene	12.188	91	8411	0.31 ppb	#	91
92) hexachloroethane	12.524	117	1514	0.29 ppb	#	100
93) 1,2-Dibromo-3-chloropr...	13.086	75	343	0.40 ppb	#	52
94) 1,2,4,5-Tetramethylben...	13.042	119	8282	0.34 ppb		96
96) 1,2,4-Trichlorobenzene	14.030	180	2526	0.39 ppb		96
97) Hexachloro-1,3-Butadiene	14.205	225	493m	0.26 ppb		
98) Naphthalene	14.325	128	8382	0.74 ppb	#	89
99) 1,2,3-Trichlorobenzene	14.578	180	2141	0.46 ppb	#	91

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619337.D
Acq On : 18 May 2020 9:15 pm
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL1
Misc : QBQV6051820A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 19 10:48:35 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619338.D
Acq On : 18 May 2020 10:16 pm
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL2
Misc : QBQV6051820A
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 19 10:45:30 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.126	70	56633	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	9.194	117	195177	10.00	ppb		0.01
70) 1,2-DICHLOROBENZENE-d4...	12.171	152	81305	10.00	ppb		0.01
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.808	65	76270	10.76	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 107.60%				
53) Toluene-d8 (SURR)	7.684	98	269925	8.62	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 86.20%				
73) p-Bromofluorobenzene (...	10.480	95	92615	9.88	ppb		0.02
Spiked Amount 10.000	Range 79 - 122		Recovery = 98.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.602	85	10232m	2.04	ppb		
3) Chloromethane	1.827	50	15289m	1.27	ppb		
4) Vinyl Chloride	1.908	62	13779m	1.85	ppb		
5) Bromomethane	2.297	94	5193m	9.82	ppb		
6) Chloroethane	2.403	64	8785m	2.29	ppb		
7) Trichlorofluoromethane	2.678	101	18121	1.78	ppb		99
8) Ethanol	2.873	45	758	43.91	ppb	#	1
9) Freon-113	3.249	101	11065	1.93	ppb	#	78
10) 1,1-Dichloroethylene	3.229	61	22406	2.26	ppb		95
11) Acrolein	3.110	56	1097m	2.26	ppb		
12) Acetone	3.254	43	3941	2.99	ppb		99
13) Iodomethane	3.382	142	11094	14.55	ppb		100
14) Allyl Chloride	3.613	76	7559	2.26	ppb	#	100
15) Methyl Acetate	3.599	43	6631	2.91	ppb		99
16) Carbon disulfide	3.460	76	29941	2.01	ppb		100
17) tert-Butyl Alcohol (TBA)	3.841	59	1225m	1.08	ppb		
18) Methylene Chloride	3.744	49	20770	2.33	ppb		95
19) Acrylonitrile	3.950	53	2680	2.93	ppb	#	69
20) trans-1,2-Dichloroethy...	4.033	61	20691	2.17	ppb	#	74
21) tert-Butyl Methyl Ethe...	4.019	73	34143	2.50	ppb	#	88
22) 1,1-Dichloroethane	4.456	63	28007	2.25	ppb		100
23) Vinyl Acetate	4.451	43	17800	2.46	ppb	#	100
24) Diisopropyl ether (DIPE)	4.501	45	55434	2.33	ppb	#	94
25) Ethyl-tert-Butyl ether...	4.854	59	48507	2.30	ppb	#	85
26) cis-1,2-Dichloroethylene	5.007	61	24906	2.18	ppb		100
27) 2-Butanone	4.990	72	1090m	3.19	ppb		
28) 2,2-Dichloropropane	5.015	77	16808	1.60	ppb	#	65
29) Tetrahydrofuran	5.257	42	3690	3.78	ppb	#	78
30) Bromochloromethane	5.241	49	13705	2.99	ppb	#	78
31) Chloroform	5.341	83	24770	2.02	ppb	#	84
32) 1,1,1-Trichloroethane	5.502	97	23142	1.84	ppb		99
33) Cyclohexane	5.597	56	24139m	2.88	ppb		
34) 1,1-Dichloropropylene	5.655	75	18996	1.95	ppb		96
36) Carbon Tetrachloride	5.661	117	19500	1.71	ppb	#	52
37) tert-Amyl alcohol (TAA)	5.833	59	8950	24.18	ppb	#	83
38) 1,2-Dichloroethane	5.889	62	18616m	2.21	ppb		
39) Benzene	5.836	78	53353	2.03	ppb	#	59
40) tert-Amyl methyl ether...	5.964	73	35784	2.15	ppb	#	90
42) Trichloroethylene	6.484	95	14829	1.90	ppb		92
43) Methyl Cyclohexane	6.726	83	21364	1.89	ppb	#	70
44) Methyl Methacrylate	6.765	69	8927	3.16	ppb	#	28
45) Dibromomethane	6.813	93	7217	2.34	ppb		95
46) Bromodichloromethane	6.982	83	18334	1.96	ppb	#	98
47) 1,2-Dichloropropane	6.724	63	15825	2.20	ppb	#	100
48) 1,4-Dioxane	6.790	88	590m	26.93	ppb		
49) 2-nitropropane	7.163	43	3298	2.81	ppb	#	100
51) cis-1,3-Dichloropropene	7.411	75	21232	1.89	ppb		97
52) 4-Methyl-2-Pentanone	7.536	43	12637	2.82	ppb	#	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619338.D
Acq On : 18 May 2020 10:16 pm
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL2
Misc : QBQV6051820A
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 19 10:45:30 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration

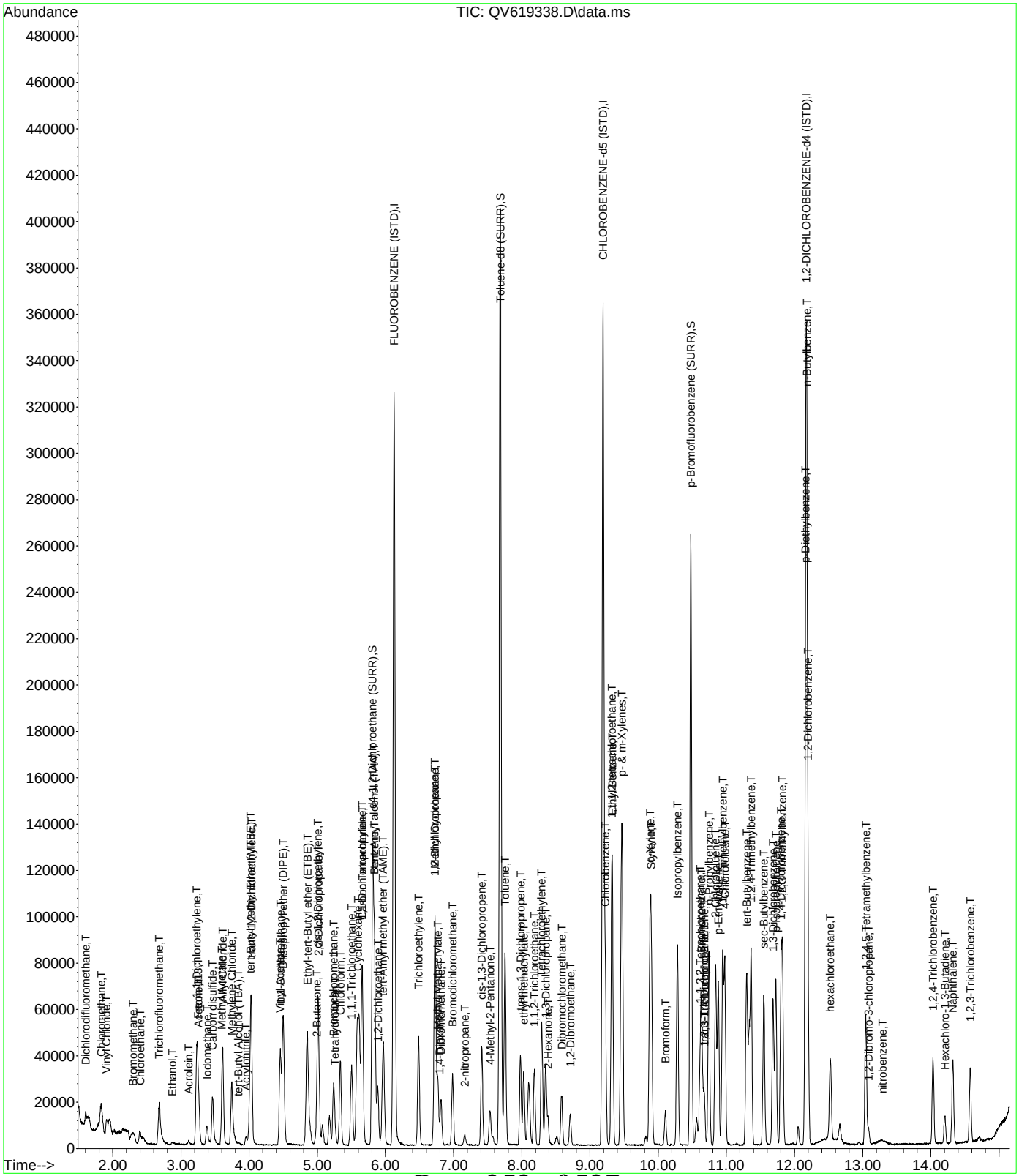
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Toluene	7.753	91	59697	1.76	ppb		99
55) trans-1,3-Dichloropropene	7.981	75	18159	1.81	ppb		99
56) ethyl methacrylate	8.029	69	14951	2.28	ppb	#	100
57) 1,1,2-Trichloroethane	8.182	97	9988	2.10	ppb		99
58) 1,3-Dichloropropane	8.349	76	17095	2.38	ppb		97
59) Tetrachloroethylene	8.290	166	15179	1.47	ppb	#	100
60) 2-Hexanone	8.382	43	8978	3.37	ppb	#	20
61) Dibromochloromethane	8.585	129	11600	1.89	ppb	#	93
62) 1,2-Dibromoethane	8.710	107	9901	2.44	ppb		100
63) Chlorobenzene	9.225	112	37475	2.05	ppb		90
64) 1,1,1,2-tetrachloroethane	9.320	131	13758	1.99	ppb		100
65) Ethyl Benzene	9.328	91	65290	2.16	ppb		99
66) p- & m-Xylenes	9.467	91	102160	4.34	ppb		97
67) o-Xylene	9.882	91	52256	2.16	ppb		100
68) Styrene	9.898	104	38742	2.18	ppb		95
69) Bromoform	10.107	173	6716	2.18	ppb	#	82
71) p-Ethyltoluene	10.883	105	48663	1.48	ppb	#	82
72) Isopropylbenzene	10.282	105	63944	1.86	ppb		97
74) 1,1,2,2-Tetrachloroethane	10.613	83	11943	2.86	ppb	#	69
75) Bromobenzene	10.633	77	27526	2.19	ppb		86
76) trans-1,4-Dichloro-2-b...	10.674	75	14522	4.19	ppb	#	48
77) 1,2,3-Trichloropropane	10.677	110	3421	2.50	ppb		59
78) n-Propylbenzene	10.747	91	72030	1.81	ppb		99
79) 2-Chlorotoluene	10.841	91	48907	1.78	ppb		99
80) 4-Chlorotoluene	10.978	91	50861	1.75	ppb		97
81) 1,3,5-Trimethylbenzene	10.947	105	48081	1.61	ppb	#	63
82) tert-Butylbenzene	11.298	119	50721	1.68	ppb		93
83) 1,2,4-Trimethylbenzene	11.364	105	48372	1.67	ppb		98
84) sec-Butylbenzene	11.548	105	51262	1.72	ppb		98
85) 1,3-Dichlorobenzene	11.684	146	27937	1.68	ppb		96
86) p-Isopropyltoluene	11.729	119	46479	1.55	ppb		97
87) 1,4-Dichlorobenzene	11.801	146	27595	1.68	ppb		96
88) 1,2,3-Trimethylbenzene	11.824	105	43835	1.70	ppb		98
89) p-Diethylbenzene	12.160	105	19107	1.46	ppb	#	97
90) 1,2-Dichlorobenzene	12.196	146	25763	1.90	ppb		98
91) n-Butylbenzene	12.182	91	41317	1.55	ppb		99
92) hexachloroethane	12.525	117	7901	1.52	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	13.087	75	1863	2.20	ppb		92
94) 1,2,4,5-Tetramethylben...	13.048	119	34532	1.45	ppb		98
95) nitrobenzene	13.293	77	214m	1.44	ppb		
96) 1,2,4-Trichlorobenzene	14.033	180	12404	1.95	ppb		97
97) Hexachloro-1,3-Butadiene	14.205	225	2656	1.39	ppb		98
98) Naphthalene	14.322	128	30368	2.72	ppb		99
99) 1,2,3-Trichlorobenzene	14.581	180	10537	2.29	ppb		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619338.D
Acq On : 18 May 2020 10:16 pm
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL2
Misc : QBQV6051820A
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 19 10:45:30 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619339.D
Acq On : 18 May 2020 11:12 pm
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL3
Misc : QBQV6051820A
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 19 10:43:08 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.125	70	55304	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	9.194	117	193961	10.00	ppb		0.01
70) 1,2-DICHLOROBENZENE-d4...	12.174	152	81069	10.00	ppb		0.02
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.811	65	73946	10.68	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 106.80%				
53) Toluene-d8 (SURR)	7.683	98	265735	8.54	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 85.40%				
73) p-Bromofluorobenzene (...	10.482	95	93307	9.98	ppb		0.02
Spiked Amount 10.000	Range 79 - 122		Recovery = 99.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.601	85	18072m	3.69	ppb		
3) Chloromethane	1.827	50	32272m	2.74	ppb		
4) Vinyl Chloride	1.910	62	28805m	3.95	ppb		
5) Bromomethane	2.294	94	12027m	23.29	ppb		
6) Chloroethane	2.394	64	18981m	5.06	ppb		
7) Trichlorofluoromethane	2.681	101	37343	3.75	ppb		99
8) Ethanol	2.867	45	1983	117.63	ppb	#	1
9) Freon-113	3.251	101	18761	3.35	ppb		98
10) 1,1-Dichloroethylene	3.229	61	46109	4.77	ppb		91
11) Acrolein	3.118	56	2559	5.41	ppb	#	83
12) Acetone	3.257	43	6536	5.07	ppb	#	98
13) Iodomethane	3.379	142	27629	29.83	ppb		100
14) Allyl Chloride	3.610	76	14853	4.56	ppb	#	100
15) Methyl Acetate	3.596	43	12526	5.63	ppb		99
16) Carbon disulfide	3.463	76	62074	4.28	ppb		100
17) tert-Butyl Alcohol (TBA)	3.847	59	2122m	1.92	ppb		
18) Methylene Chloride	3.741	49	43260	4.98	ppb		94
19) Acrylonitrile	3.955	53	6220	6.96	ppb	#	45
20) trans-1,2-Dichloroethy...	4.033	61	43868	4.72	ppb	#	74
21) tert-Butyl Methyl Ethe...	4.019	73	72183	5.41	ppb	#	88
22) 1,1-Dichloroethane	4.459	63	59012	4.85	ppb	#	97
23) Vinyl Acetate	4.456	43	36273	5.13	ppb	#	100
24) Diisopropyl ether (DIPE)	4.498	45	117641	5.06	ppb	#	99
25) Ethyl-tert-Butyl ether...	4.854	59	103749	5.04	ppb	#	100
26) cis-1,2-Dichloroethylene	5.007	61	53795	4.82	ppb		99
27) 2-Butanone	4.982	72	2299	6.88	ppb	#	95
28) 2,2-Dichloropropane	5.015	77	32920	3.20	ppb	#	65
29) Tetrahydrofuran	5.257	42	7136	7.49	ppb	#	56
30) Bromochloromethane	5.240	49	28884	6.45	ppb	#	77
31) Chloroform	5.341	83	52831	4.41	ppb	#	84
32) 1,1,1-Trichloroethane	5.505	97	48261	3.92	ppb	#	82
33) Cyclohexane	5.599	56	45566m	5.56	ppb		
34) 1,1-Dichloropropylene	5.652	75	39461	4.14	ppb		96
36) Carbon Tetrachloride	5.661	117	40513	3.63	ppb	#	53
37) tert-Amyl alcohol (TAA)	5.836	59	19364	53.58	ppb	#	83
38) 1,2-Dichloroethane	5.889	62	38636	4.70	ppb		99
39) Benzene	5.841	78	112747	4.38	ppb	#	80
40) tert-Amyl methyl ether...	5.969	73	78037	4.80	ppb	#	90
42) Trichloroethylene	6.484	95	30752	3.96	ppb		94
43) Methyl Cyclohexane	6.723	83	36920	3.29	ppb	#	71
44) Methyl Methacrylate	6.771	69	17309	6.17	ppb	#	28
45) Dibromomethane	6.812	93	15173	4.94	ppb		96
46) Bromodichloromethane	6.982	83	39626	4.26	ppb		99
47) 1,2-Dichloropropane	6.726	63	33979	4.75	ppb	#	100
48) 1,4-Dioxane	6.790	88	1426	65.51	ppb	#	86
49) 2-nitropropane	7.166	43	6930	5.94	ppb	#	100
51) cis-1,3-Dichloropropene	7.413	75	45732	4.09	ppb		98
52) 4-Methyl-2-Pentanone	7.533	43	25926	5.81	ppb	#	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619339.D
Acq On : 18 May 2020 11:12 pm
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL3
Misc : QBQV6051820A
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 19 10:43:08 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration

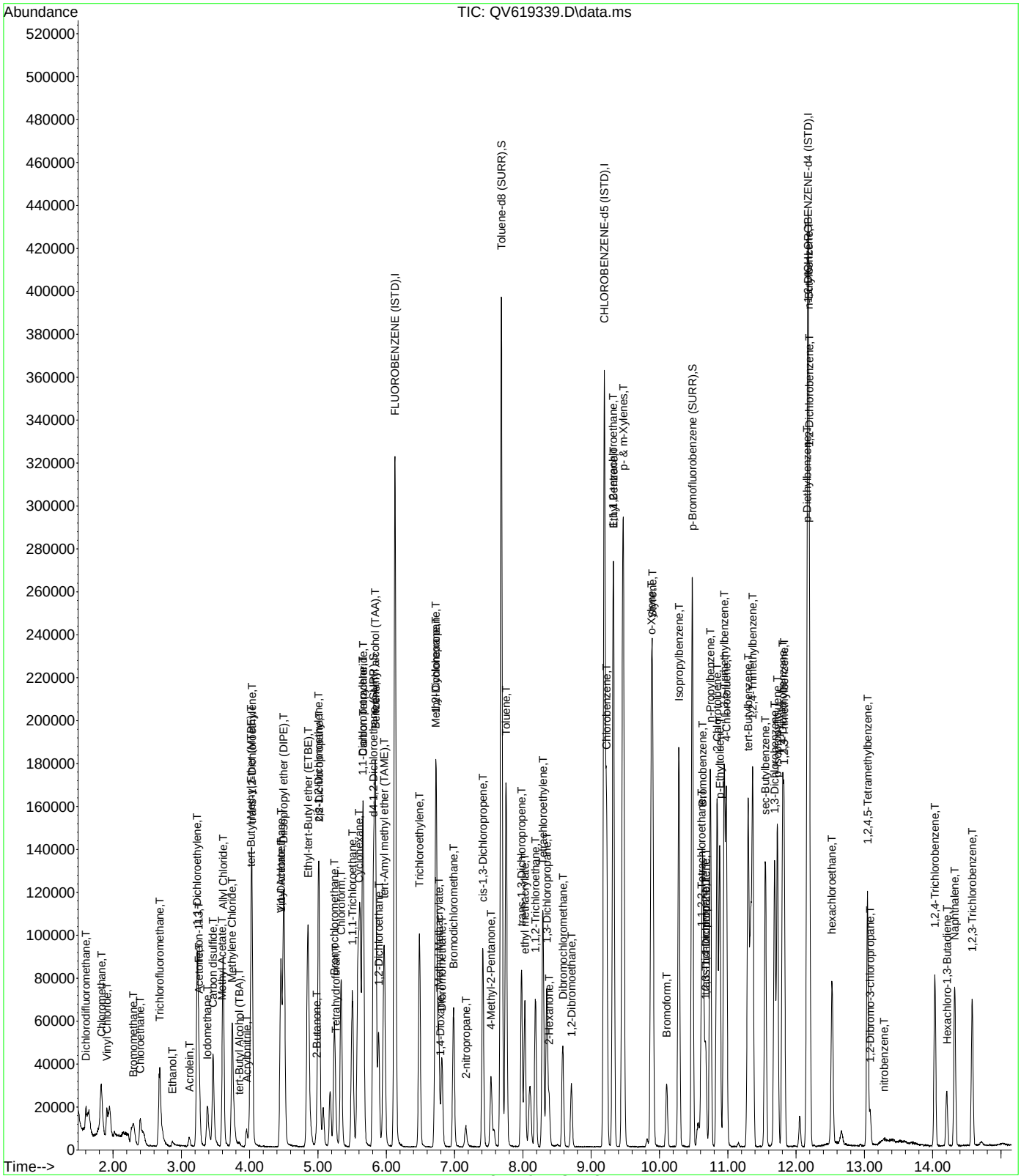
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Toluene	7.753	91	125324	3.72	ppb		100
55) trans-1,3-Dichloropropene	7.978	75	38178	3.83	ppb	#	89
56) ethyl methacrylate	8.028	69	31426	4.82	ppb	#	100
57) 1,1,2-Trichloroethane	8.181	97	21358	4.52	ppb		99
58) 1,3-Dichloropropane	8.351	76	36215	5.08	ppb	#	62
59) Tetrachloroethylene	8.295	166	32412	3.16	ppb	#	100
60) 2-Hexanone	8.382	43	18023	6.82	ppb	#	18
61) Dibromochloromethane	8.585	129	24856	4.07	ppb		96
62) 1,2-Dibromoethane	8.710	107	21052	5.23	ppb		99
63) Chlorobenzene	9.225	112	79936	4.40	ppb		93
64) 1,1,1,2-tetrachloroethane	9.322	131	29505	4.29	ppb		98
65) Ethyl Benzene	9.328	91	138240	4.60	ppb		99
66) p- & m-Xylenes	9.470	91	215986	9.24	ppb		97
67) o-Xylene	9.881	91	111214	4.64	ppb		100
68) Styrene	9.898	104	84006	4.75	ppb		96
69) Bromoform	10.104	173	14557	4.75	ppb		99
71) p-Ethyltoluene	10.883	105	95266m	2.90	ppb		
72) Isopropylbenzene	10.285	105	133985	3.91	ppb		97
74) 1,1,2,2-Tetrachloroethane	10.613	83	24841	5.98	ppb	#	99
75) Bromobenzene	10.630	77	58254	4.64	ppb		87
76) trans-1,4-Dichloro-2-b...	10.674	75	29568	8.56	ppb	#	49
77) 1,2,3-Trichloropropane	10.677	110	6885	5.04	ppb		59
78) n-Propylbenzene	10.744	91	151566	3.82	ppb		99
79) 2-Chlorotoluene	10.844	91	102163	3.73	ppb		99
80) 4-Chlorotoluene	10.980	91	106194	3.67	ppb		97
81) 1,3,5-Trimethylbenzene	10.947	105	101904	3.42	ppb	#	65
82) tert-Butylbenzene	11.297	119	106327	3.53	ppb		93
83) 1,2,4-Trimethylbenzene	11.364	105	102408	3.55	ppb		98
84) sec-Butylbenzene	11.548	105	105837	3.55	ppb		98
85) 1,3-Dichlorobenzene	11.687	146	58473	3.53	ppb		96
86) p-Isopropyltoluene	11.726	119	97281	3.24	ppb		98
87) 1,4-Dichlorobenzene	11.801	146	58981	3.59	ppb		96
88) 1,2,3-Trimethylbenzene	11.826	105	81786	3.18	ppb		99
89) p-Diethylbenzene	12.160	105	37816	2.89	ppb	#	96
90) 1,2-Dichlorobenzene	12.193	146	53504	3.96	ppb	#	72
91) n-Butylbenzene	12.188	91	85927	3.23	ppb		99
92) hexachloroethane	12.524	117	16871	3.26	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	13.084	75	3898	4.63	ppb		92
94) 1,2,4,5-Tetramethylben...	13.045	119	70262	2.96	ppb		97
95) nitrobenzene	13.287	77	458	3.08	ppb	#	100
96) 1,2,4-Trichlorobenzene	14.032	180	26611	4.20	ppb		96
97) Hexachloro-1,3-Butadiene	14.208	225	5720	3.01	ppb		99
98) Naphthalene	14.322	128	63056	5.66	ppb		99
99) 1,2,3-Trichlorobenzene	14.578	180	22023	4.81	ppb		95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619339.D
Acq On : 18 May 2020 11:12 pm
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL3
Misc : QBQV6051820A
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 19 10:43:08 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619340.D
Acq On : 19 May 2020 12:04 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL4
Misc : QBQV6051820A
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 19 10:40:49 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.128	70	56707	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	9.194	117	192291	10.00	ppb		0.01
70) 1,2-DICHLOROBENZENE-d4...	12.174	152	76576	10.00	ppb		0.02
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.814	65	76978	10.84	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 108.40%				
53) Toluene-d8 (SURR)	7.683	98	265568	8.61	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 86.10%				
73) p-Bromofluorobenzene (...	10.479	95	90485	10.25	ppb		0.02
Spiked Amount 10.000	Range 79 - 122		Recovery = 102.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.601	85	40506m	8.06	ppb		
3) Chloromethane	1.827	50	68877	5.69	ppb	#	46
4) Vinyl Chloride	1.910	62	62480m	8.36	ppb		
5) Bromomethane	2.300	94	28320	53.48	ppb		67
6) Chloroethane	2.400	64	41651m	10.83	ppb		
7) Trichlorofluoromethane	2.684	101	84699	8.29	ppb		98
8) Ethanol	2.859	45	6850	396.29	ppb	#	1
9) Freon-113	3.251	101	53451	9.30	ppb		99
10) 1,1-Dichloroethylene	3.232	61	104588	10.55	ppb		97
11) Acrolein	3.115	56	5847	12.05	ppb	#	83
12) Acetone	3.259	43	14912	11.28	ppb	#	97
13) Iodomethane	3.385	142	70169	55.54	ppb		100
14) Allyl Chloride	3.613	76	33846	10.13	ppb	#	100
15) Methyl Acetate	3.602	43	32080	14.05	ppb		99
16) Carbon disulfide	3.463	76	141790	9.53	ppb		100
17) tert-Butyl Alcohol (TBA)	3.844	59	5421	4.78	ppb	#	1
18) Methylene Chloride	3.746	49	98189	11.02	ppb		95
19) Acrylonitrile	3.952	53	14585	15.91	ppb	#	42
20) trans-1,2-Dichloroethy...	4.033	61	100765	10.57	ppb		99
21) tert-Butyl Methyl Ethe...	4.022	73	165837	12.11	ppb	#	88
22) 1,1-Dichloroethane	4.459	63	136376	10.94	ppb		100
23) Vinyl Acetate	4.456	43	85851	11.83	ppb	#	100
24) Diisopropyl ether (DIPE)	4.498	45	264542	11.10	ppb	#	99
25) Ethyl-tert-Butyl ether...	4.851	59	233005	11.03	ppb	#	100
26) cis-1,2-Dichloroethylene	5.010	61	121564	10.62	ppb		100
27) 2-Butanone	4.987	72	5202	15.19	ppb	#	95
28) 2,2-Dichloropropane	5.021	77	71480	6.78	ppb	#	65
29) Tetrahydrofuran	5.254	42	15587	15.95	ppb	#	51
30) Bromochloromethane	5.240	49	64931	14.14	ppb		97
31) Chloroform	5.341	83	122905	10.00	ppb	#	84
32) 1,1,1-Trichloroethane	5.505	97	110828	8.79	ppb	#	81
33) Cyclohexane	5.599	56	118772m	14.14	ppb		
34) 1,1-Dichloropropylene	5.658	75	90847	9.30	ppb		97
36) Carbon Tetrachloride	5.663	117	93678	8.20	ppb	#	53
37) tert-Amyl alcohol (TAA)	5.839	59	44294	119.52	ppb	#	82
38) 1,2-Dichloroethane	5.886	62	91920	10.90	ppb		100
39) Benzene	5.841	78	259574	9.84	ppb	#	90
40) tert-Amyl methyl ether...	5.969	73	171965	10.32	ppb	#	100
42) Trichloroethylene	6.484	95	71106	9.24	ppb		93
43) Methyl Cyclohexane	6.726	83	104890	9.42	ppb	#	78
44) Methyl Methacrylate	6.768	69	36639	13.17	ppb	#	28
45) Dibromomethane	6.815	93	35184	11.57	ppb		96
46) Bromodichloromethane	6.988	83	92552	10.04	ppb		100
47) 1,2-Dichloropropane	6.729	63	77173	10.89	ppb	#	100
48) 1,4-Dioxane	6.793	88	3853	178.54	ppb	#	86
49) 2-nitropropane	7.163	43	16900	14.62	ppb	#	100
51) cis-1,3-Dichloropropene	7.411	75	104452	9.42	ppb		98
52) 4-Methyl-2-Pentanone	7.533	43	60043	13.58	ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619340.D
Acq On : 19 May 2020 12:04 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL4
Misc : QBQV6051820A
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 19 10:40:49 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration

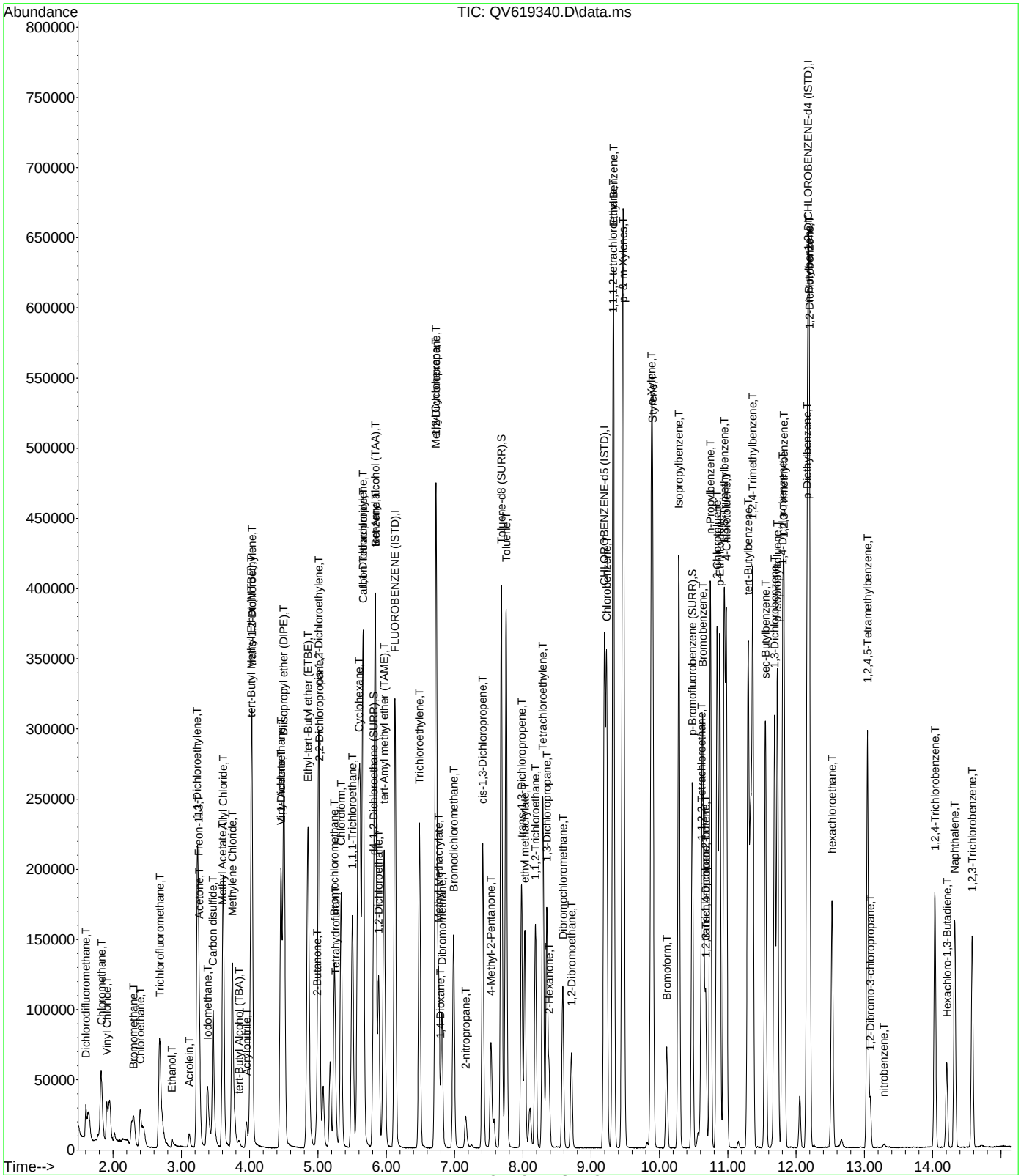
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Toluene	7.756	91	283837	8.49	ppb		100
55) trans-1,3-Dichloropropene	7.981	75	89391	9.04	ppb	#	89
56) ethyl methacrylate	8.028	69	72739	11.25	ppb	#	100
57) 1,1,2-Trichloroethane	8.181	97	49483	10.57	ppb		100
58) 1,3-Dichloropropane	8.348	76	83380	11.80	ppb		96
59) Tetrachloroethylene	8.290	166	73672	7.24	ppb	#	100
60) 2-Hexanone	8.382	43	41857	15.97	ppb	#	17
61) Dibromochloromethane	8.585	129	60098	9.92	ppb		98
62) 1,2-Dibromoethane	8.710	107	49546	12.41	ppb		100
63) Chlorobenzene	9.227	112	182863	10.16	ppb		96
64) 1,1,1,2-tetrachloroethane	9.319	131	68087	9.99	ppb		98
65) Ethyl Benzene	9.328	91	317446	10.64	ppb		99
66) p- & m-Xylenes	9.467	91	492629	21.25	ppb		97
67) o-Xylene	9.881	91	251758	10.59	ppb		100
68) Styrene	9.901	104	192683	11.00	ppb		96
69) Bromoform	10.107	173	35125	11.56	ppb	#	80
71) p-Ethyltoluene	10.883	105	249717	8.04	ppb	#	82
72) Isopropylbenzene	10.282	105	304993	9.42	ppb		97
74) 1,1,2,2-Tetrachloroethane	10.613	83	56917	14.50	ppb	#	100
75) Bromobenzene	10.632	77	123529	10.42	ppb		89
76) trans-1,4-Dichloro-2-b...	10.674	75	68956	21.14	ppb	#	66
77) 1,2,3-Trichloropropane	10.680	110	16288	12.62	ppb	#	1
78) n-Propylbenzene	10.744	91	347389	9.26	ppb		99
79) 2-Chlorotoluene	10.844	91	237940	9.20	ppb		99
80) 4-Chlorotoluene	10.977	91	242644	8.88	ppb		97
81) 1,3,5-Trimethylbenzene	10.947	105	232470	8.26	ppb	#	64
82) tert-Butylbenzene	11.297	119	242770	8.54	ppb		93
83) 1,2,4-Trimethylbenzene	11.364	105	232481	8.52	ppb		98
84) sec-Butylbenzene	11.553	105	242610	8.62	ppb		98
85) 1,3-Dichlorobenzene	11.684	146	134277	8.57	ppb		97
86) p-Isopropyltoluene	11.726	119	221787	7.83	ppb		98
87) 1,4-Dichlorobenzene	11.804	146	134370	8.66	ppb		96
88) 1,2,3-Trimethylbenzene	11.823	105	202993	8.34	ppb		99
89) p-Diethylbenzene	12.160	105	97413	7.88	ppb	#	98
90) 1,2-Dichlorobenzene	12.196	146	121848	9.55	ppb	#	87
91) n-Butylbenzene	12.188	91	201426	8.03	ppb		98
92) hexachloroethane	12.527	117	38719	7.92	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	13.086	75	9017	11.33	ppb		91
94) 1,2,4,5-Tetramethylben...	13.045	119	179638	8.02	ppb		97
95) nitrobenzene	13.284	77	1132m	8.07	ppb		
96) 1,2,4-Trichlorobenzene	14.035	180	60343	10.08	ppb		97
97) Hexachloro-1,3-Butadiene	14.208	225	12980	7.23	ppb		99
98) Naphthalene	14.322	128	141555	13.44	ppb		99
99) 1,2,3-Trichlorobenzene	14.580	180	50530	11.67	ppb		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619340.D
Acq On : 19 May 2020 12:04 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL4
Misc : QBQV6051820A
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 19 10:40:49 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619341.D
Acq On : 19 May 2020 12:51 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL5
Misc : QBQV6051820A
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 19 10:38:38 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.131	70	56173	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	9.191	117	195101	10.00	ppb		0.01
70) 1,2-DICHLOROBENZENE-d4...	12.174	152	76924	10.00	ppb	#	0.02
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.814	65	76195	10.84	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 108.40%				
53) Toluene-d8 (SURR)	7.683	98	270907	8.65	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 86.50%				
73) p-Bromofluorobenzene (...	10.482	95	90672	10.22	ppb		0.02
Spiked Amount 10.000	Range 79 - 122		Recovery = 102.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.601	85	88390m	17.77	ppb		
3) Chloromethane	1.827	50	142115	11.86	ppb	#	47
4) Vinyl Chloride	1.910	62	128014m	17.30	ppb		
5) Bromomethane	2.297	94	60816	115.94	ppb		65
6) Chloroethane	2.400	64	83164m	21.84	ppb		
7) Trichlorofluoromethane	2.684	101	172429	17.04	ppb		98
8) Ethanol	2.859	45	18046	1053.94	ppb	#	1
9) Freon-113	3.254	101	107343	18.86	ppb	#	69
10) 1,1-Dichloroethylene	3.235	61	197727	20.13	ppb		98
11) Acrolein	3.118	56	10740	22.34	ppb	#	83
12) Acetone	3.260	43	27404	20.93	ppb	#	96
13) Iodomethane	3.382	142	140408	86.42	ppb		100
14) Allyl Chloride	3.616	76	62276	18.81	ppb	#	100
15) Methyl Acetate	3.599	43	60722	26.86	ppb		99
16) Carbon disulfide	3.466	76	272092	18.45	ppb		100
17) tert-Butyl Alcohol (TBA)	3.844	59	10093	8.98	ppb	#	1
18) Methylene Chloride	3.747	49	185061	20.97	ppb		95
19) Acrylonitrile	3.955	53	27015	29.74	ppb	#	68
20) trans-1,2-Dichloroethy...	4.033	61	191038	20.24	ppb		99
21) tert-Butyl Methyl Ethe...	4.022	73	311168	22.95	ppb	#	88
22) 1,1-Dichloroethane	4.459	63	257507	20.85	ppb		100
23) Vinyl Acetate	4.456	43	152413	21.20	ppb	#	100
24) Diisopropyl ether (DIPE)	4.501	45	548926	23.24	ppb	#	99
25) Ethyl-tert-Butyl ether...	4.851	59	485706	23.22	ppb	#	100
26) cis-1,2-Dichloroethylene	5.010	61	228746	20.16	ppb	#	75
27) 2-Butanone	4.982	72	9547	28.14	ppb	#	95
28) 2,2-Dichloropropane	5.018	77	130040	12.44	ppb	#	65
29) Tetrahydrofuran	5.255	42	29417	30.39	ppb	#	53
30) Bromochloromethane	5.241	49	121017	26.61	ppb		97
31) Chloroform	5.338	83	232649	19.10	ppb	#	84
32) 1,1,1-Trichloroethane	5.505	97	210009	16.81	ppb	#	82
33) Cyclohexane	5.602	56	262882m	31.60	ppb		
34) 1,1-Dichloropropylene	5.655	75	174705	18.05	ppb		97
36) Carbon Tetrachloride	5.664	117	180224	15.92	ppb	#	53
37) tert-Amyl alcohol (TAA)	5.836	59	92643	252.35	ppb	#	83
38) 1,2-Dichloroethane	5.886	62	172636	20.67	ppb		100
39) Benzene	5.842	78	490722	18.79	ppb	#	93
40) tert-Amyl methyl ether...	5.970	73	356092	21.58	ppb	#	100
42) Trichloroethylene	6.487	95	136861	17.52	ppb		93
43) Methyl Cyclohexane	6.726	83	212887	18.84	ppb	#	78
44) Methyl Methacrylate	6.765	69	68241	24.17	ppb	#	28
45) Dibromomethane	6.818	93	67065	21.73	ppb		96
46) Bromodichloromethane	6.985	83	177120	18.95	ppb		99
47) 1,2-Dichloropropane	6.732	63	146342	20.35	ppb	#	83
48) 1,4-Dioxane	6.796	88	7274	332.20	ppb	#	79
49) 2-nitropropane	7.160	43	32270	27.51	ppb	#	100
51) cis-1,3-Dichloropropene	7.414	75	195437	17.37	ppb		97
52) 4-Methyl-2-Pentanone	7.533	43	113668	25.34	ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619341.D
Acq On : 19 May 2020 12:51 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL5
Misc : QBQV6051820A
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 19 10:38:38 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration

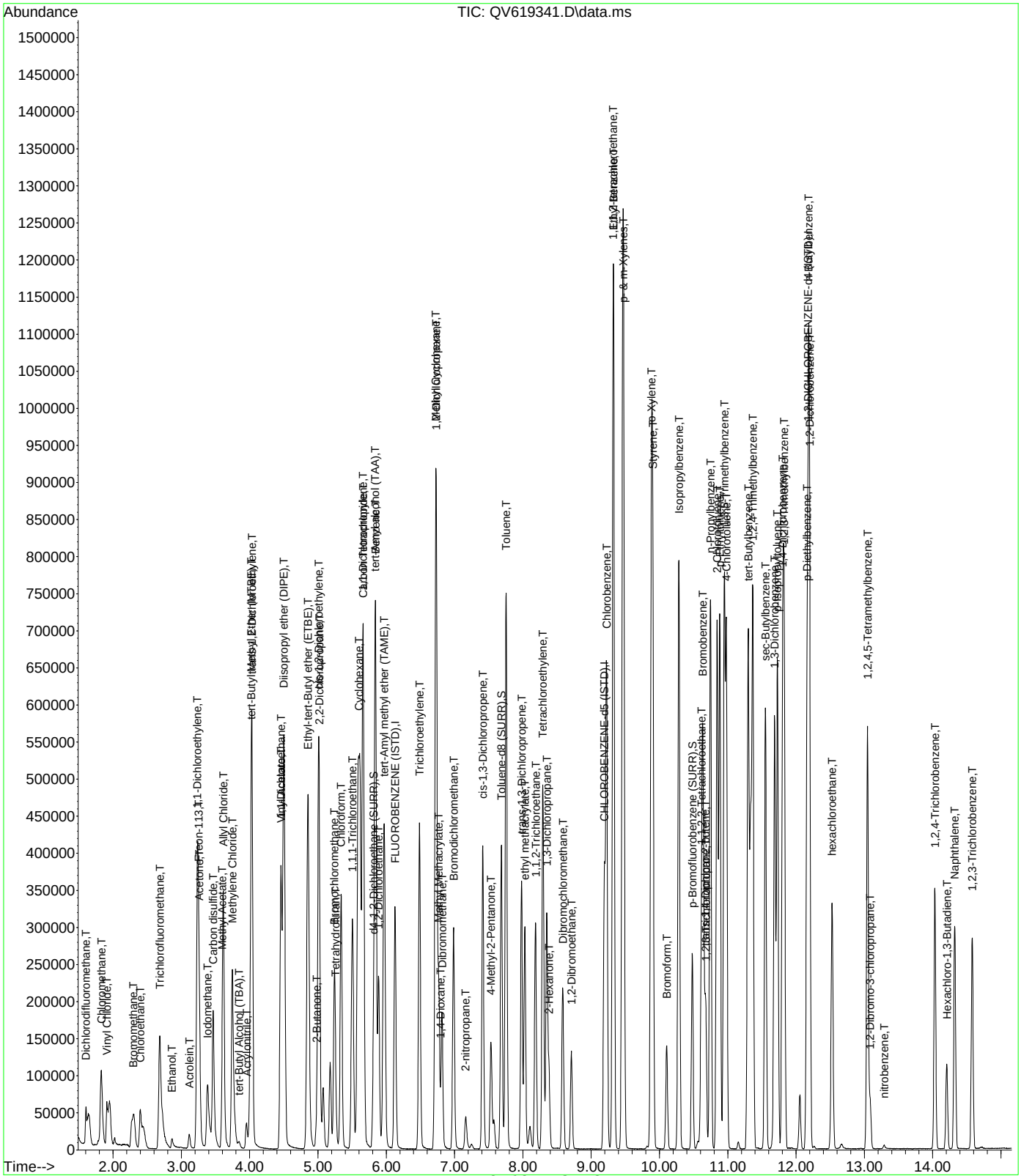
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Toluene	7.753	91	542435	16.00	ppb		100
55) trans-1,3-Dichloropropene	7.981	75	166784	16.62	ppb		100
56) ethyl methacrylate	8.028	69	137348	20.93	ppb	#	100
57) 1,1,2-Trichloroethane	8.187	97	94121	19.81	ppb		99
58) 1,3-Dichloropropane	8.348	76	156969	21.89	ppb	#	62
59) Tetrachloroethylene	8.293	166	143569	13.91	ppb	#	100
60) 2-Hexanone	8.382	43	79148	29.76	ppb	#	18
61) Dibromochloromethane	8.585	129	115135	18.73	ppb		97
62) 1,2-Dibromoethane	8.710	107	92741	22.90	ppb		99
63) Chlorobenzene	9.228	112	345833	18.94	ppb		96
64) 1,1,1,2-tetrachloroethane	9.322	131	130567	18.88	ppb		98
65) Ethyl Benzene	9.328	91	605788	20.02	ppb		99
66) p- & m-Xylenes	9.470	91	943240	40.10	ppb		97
67) o-Xylene	9.881	91	478671	19.84	ppb		100
68) Styrene	9.904	104	366525	20.62	ppb		96
69) Bromoform	10.107	173	68226	22.13	ppb	#	79
71) p-Ethyltoluene	10.883	105	494213	15.84	ppb	#	82
72) Isopropylbenzene	10.285	105	581621	17.88	ppb		97
74) 1,1,2,2-Tetrachloroethane	10.613	83	105671	26.79	ppb	#	69
75) Bromobenzene	10.633	77	248742	20.89	ppb		87
76) trans-1,4-Dichloro-2-b...	10.672	75	126993	38.76	ppb	#	66
77) 1,2,3-Trichloropropane	10.680	110	29936	23.09	ppb	#	1
78) n-Propylbenzene	10.747	91	659288	17.49	ppb		99
79) 2-Chlorotoluene	10.844	91	450530	17.35	ppb		99
80) 4-Chlorotoluene	10.980	91	459173	16.73	ppb		97
81) 1,3,5-Trimethylbenzene	10.950	105	439301	15.54	ppb	#	64
82) tert-Butylbenzene	11.300	119	458476	16.06	ppb		93
83) 1,2,4-Trimethylbenzene	11.367	105	434710	15.86	ppb		98
84) sec-Butylbenzene	11.551	105	463347	16.39	ppb		98
85) 1,3-Dichlorobenzene	11.684	146	249625	15.87	ppb		97
86) p-Isopropyltoluene	11.726	119	424072	14.90	ppb		98
87) 1,4-Dichlorobenzene	11.804	146	251340	16.13	ppb		96
88) 1,2,3-Trimethylbenzene	11.826	105	405438	16.59	ppb		99
89) p-Diethylbenzene	12.160	105	191129	15.39	ppb	#	97
90) 1,2-Dichlorobenzene	12.199	146	226625	17.69	ppb		98
91) n-Butylbenzene	12.185	91	389190	15.44	ppb	#	95
92) hexachloroethane	12.527	117	74596	15.19	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	13.081	75	18813	23.53	ppb	#	27
94) 1,2,4,5-Tetramethylben...	13.045	119	349049	15.50	ppb		98
95) nitrobenzene	13.292	77	2084	14.79	ppb	#	100
96) 1,2,4-Trichlorobenzene	14.035	180	113684	18.91	ppb		96
97) Hexachloro-1,3-Butadiene	14.208	225	25422	14.09	ppb		100
98) Naphthalene	14.322	128	262558	24.83	ppb		99
99) 1,2,3-Trichlorobenzene	14.581	180	95454	21.95	ppb		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619341.D
Acq On : 19 May 2020 12:51 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL5
Misc : QBQV6051820A
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 19 10:38:38 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619342.D
Acq On : 19 May 2020 1:35 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL6
Misc : QBQV6051820A
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 19 10:37:09 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.131	70	52647	10.00	ppb		# 0.00
41) CHLOROBENZENE-d5 (ISTD)	9.194	117	176566	10.00	ppb		0.01
70) 1,2-DICHLOROBENZENE-d4...	12.177	152	70640	10.00	ppb		# 0.02
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.817	65	74492	11.30	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 113.00%				
53) Toluene-d8 (SURR)	7.686	98	244627	8.63	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 86.30%				
73) p-Bromofluorobenzene (...	10.482	95	79906	9.81	ppb		0.02
Spiked Amount 10.000	Range 79 - 122		Recovery = 98.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.601	85	165982m	35.60	ppb		
3) Chloromethane	1.827	50	280090m	24.94	ppb		
4) Vinyl Chloride	1.913	62	256137m	36.94	ppb		
5) Bromomethane	2.305	94	135385	275.38	ppb		66
6) Chloroethane	2.400	64	168953m	47.34	ppb		
7) Trichlorofluoromethane	2.684	101	347478	36.64	ppb		98
8) Ethanol	2.862	45	40182	2503.92	ppb	#	1
9) Freon-113	3.254	101	221693	41.55	ppb		99
10) 1,1-Dichloroethylene	3.237	61	418174	45.43	ppb		98
11) Acrolein	3.118	56	19960	44.30	ppb	#	83
12) Acetone	3.257	43	56154	45.77	ppb	#	96
13) Iodomethane	3.388	142	296430	139.54	ppb		100
14) Allyl Chloride	3.619	76	127212	41.00	ppb	#	100
15) Methyl Acetate	3.599	43	119390	56.34	ppb		99
16) Carbon disulfide	3.468	76	570133	41.26	ppb		100
17) tert-Butyl Alcohol (TBA)	3.850	59	19494	18.50	ppb	#	1
18) Methylene Chloride	3.749	49	386677	46.74	ppb		95
19) Acrylonitrile	3.955	53	56796	66.71	ppb	#	45
20) trans-1,2-Dichloroethy...	4.036	61	410855	46.44	ppb		99
21) tert-Butyl Methyl Ethe...	4.022	73	656014	51.62	ppb	#	88
22) 1,1-Dichloroethane	4.459	63	549739	47.50	ppb		100
23) Vinyl Acetate	4.459	43	307279	45.61	ppb	#	100
24) Diisopropyl ether (DIPE)	4.503	45	1135387	51.30	ppb	#	99
25) Ethyl-tert-Butyl ether...	4.857	59	998312	50.92	ppb	#	100
26) cis-1,2-Dichloroethylene	5.013	61	481766	45.31	ppb		99
27) 2-Butanone	4.982	72	20044	63.05	ppb	#	95
28) 2,2-Dichloropropane	5.021	77	271262	27.70	ppb	#	65
29) Tetrahydrofuran	5.255	42	58813	64.83	ppb	#	50
30) Bromochloromethane	5.243	49	248995	58.41	ppb		97
31) Chloroform	5.341	83	495122	43.38	ppb	#	84
32) 1,1,1-Trichloroethane	5.508	97	455662	38.91	ppb	#	82
33) Cyclohexane	5.602	56	486709m	62.42	ppb		
34) 1,1-Dichloropropylene	5.661	75	365932	40.33	ppb		95
36) Carbon Tetrachloride	5.666	117	388631	36.63	ppb	#	53
37) tert-Amyl alcohol (TAA)	5.836	59	184953	537.54	ppb		98
38) 1,2-Dichloroethane	5.892	62	370097	47.28	ppb		100
39) Benzene	5.844	78	1028709	42.02	ppb	#	95
40) tert-Amyl methyl ether...	5.972	73	724279	46.83	ppb	#	100
42) Trichloroethylene	6.490	95	288832	40.86	ppb		93
43) Methyl Cyclohexane	6.729	83	417508	40.83	ppb	#	76
44) Methyl Methacrylate	6.771	69	141102	55.23	ppb	#	28
45) Dibromomethane	6.815	93	140472	50.29	ppb		97
46) Bromodichloromethane	6.985	83	379277	44.83	ppb		100
47) 1,2-Dichloropropane	6.732	63	306483	47.10	ppb	#	99
48) 1,4-Dioxane	6.796	88	13891	700.99	ppb	#	86
49) 2-nitropropane	7.166	43	70571	66.48	ppb	#	100
51) cis-1,3-Dichloropropene	7.416	75	411006	40.37	ppb		97
52) 4-Methyl-2-Pentanone	7.533	43	239668	59.04	ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619342.D
Acq On : 19 May 2020 1:35 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL6
Misc : QBQV6051820A
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 19 10:37:09 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration

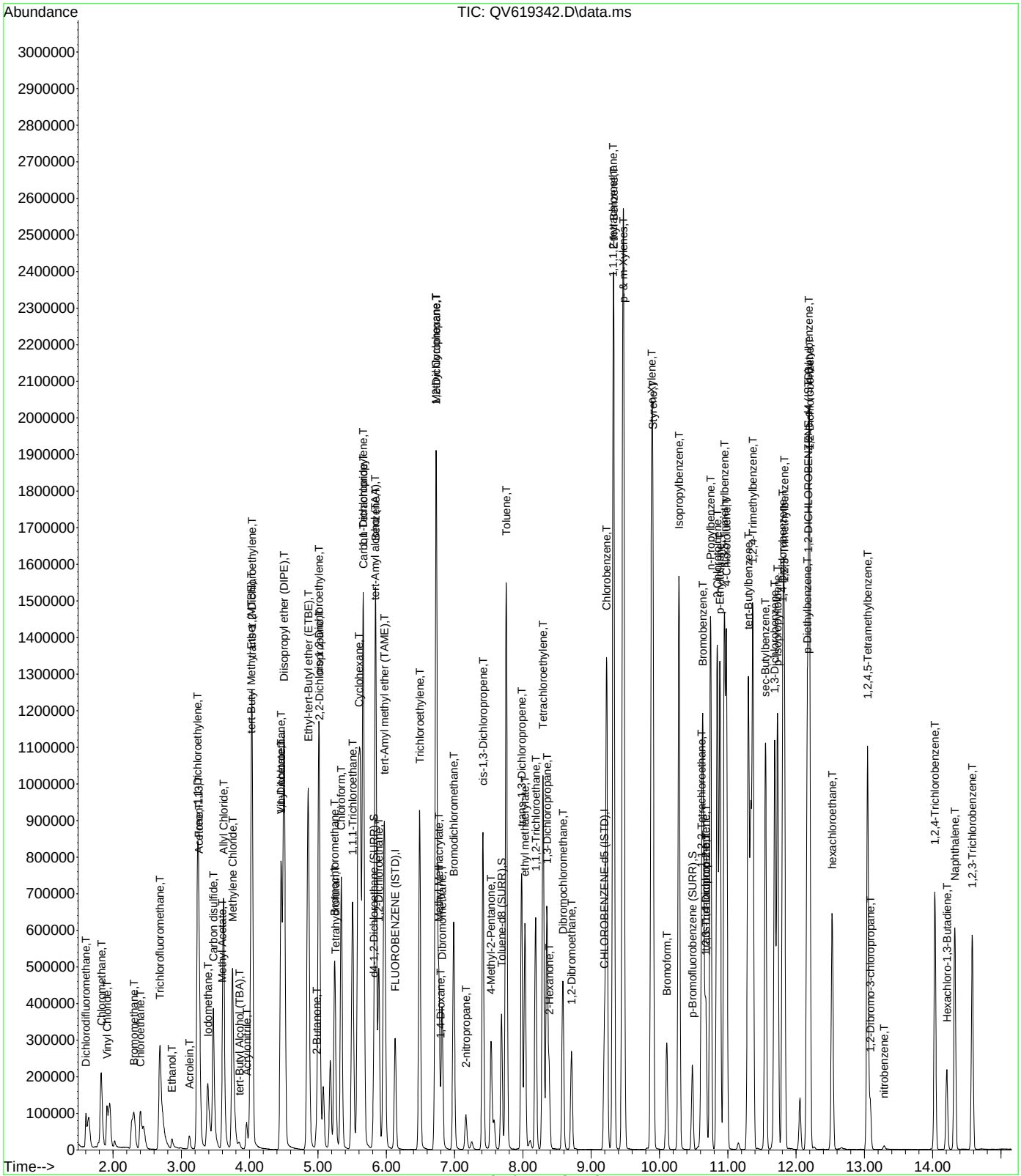
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Toluene	7.756	91	1118347	36.45	ppb		99
55) trans-1,3-Dichloropropene	7.981	75	350144	38.55	ppb		100
56) ethyl methacrylate	8.031	69	285651	48.11	ppb	#	100
57) 1,1,2-Trichloroethane	8.187	97	194761	45.30	ppb		100
58) 1,3-Dichloropropane	8.354	76	326842	50.38	ppb		97
59) Tetrachloroethylene	8.296	166	297708	31.87	ppb	#	100
60) 2-Hexanone	8.385	43	160381	66.62	ppb	#	15
61) Dibromochloromethane	8.585	129	246307	44.27	ppb		98
62) 1,2-Dibromoethane	8.713	107	192460	52.50	ppb		99
63) Chlorobenzene	9.225	112	705244	42.68	ppb		96
64) 1,1,1,2-tetrachloroethane	9.322	131	272740	43.57	ppb		98
65) Ethyl Benzene	9.331	91	1207719	44.10	ppb		100
66) p- & m-Xylenes	9.472	91	1873690	88.02	ppb		97
67) o-Xylene	9.884	91	956137	43.78	ppb		100
68) Styrene	9.904	104	737321	45.84	ppb		96
69) Bromoform	10.107	173	143309	51.36	ppb		99
71) p-Ethyltoluene	10.886	105	925307	32.29	ppb	#	82
72) Isopropylbenzene	10.285	105	1132438	37.92	ppb		97
74) 1,1,2,2-Tetrachloroethane	10.613	83	213907	59.06	ppb	#	69
75) Bromobenzene	10.633	77	497306	45.47	ppb		87
76) trans-1,4-Dichloro-2-b...	10.677	75	254115	84.47	ppb	#	66
77) 1,2,3-Trichloropropane	10.680	110	60470	50.79	ppb	#	1
78) n-Propylbenzene	10.747	91	1262929	36.48	ppb		99
79) 2-Chlorotoluene	10.847	91	875751	36.72	ppb		99
80) 4-Chlorotoluene	10.980	91	890072	35.32	ppb		97
81) 1,3,5-Trimethylbenzene	10.950	105	851119	32.79	ppb	#	64
82) tert-Butylbenzene	11.300	119	885692	33.79	ppb		92
83) 1,2,4-Trimethylbenzene	11.367	105	843497	33.52	ppb		98
84) sec-Butylbenzene	11.551	105	871252	33.57	ppb		98
85) 1,3-Dichlorobenzene	11.687	146	488521	33.82	ppb		97
86) p-Isopropyltoluene	11.729	119	800166	30.62	ppb		98
87) 1,4-Dichlorobenzene	11.804	146	494176	34.54	ppb		96
88) 1,2,3-Trimethylbenzene	11.829	105	793203	35.34	ppb		99
89) p-Diethylbenzene	12.163	105	355861	31.20	ppb	#	99
90) 1,2-Dichlorobenzene	12.199	146	446669	37.96	ppb		98
91) n-Butylbenzene	12.188	91	730214	31.55	ppb		97
92) hexachloroethane	12.530	117	146580	32.50	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	13.087	75	37695	51.34	ppb	#	84
94) 1,2,4,5-Tetramethylben...	13.048	119	676742	32.74	ppb		97
95) nitrobenzene	13.290	77	4637	35.83	ppb	#	100
96) 1,2,4-Trichlorobenzene	14.033	180	228281	41.35	ppb		97
97) Hexachloro-1,3-Butadiene	14.208	225	48297	29.15	ppb		100
98) Naphthalene	14.325	128	527566	54.32	ppb		99
99) 1,2,3-Trichlorobenzene	14.578	180	194522	48.71	ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619342.D
Acq On : 19 May 2020 1:35 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL6
Misc : QBQV6051820A
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 19 10:37:09 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619343.D
Acq On : 19 May 2020 2:15 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL7
Misc : QBQV6051820A
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 19 10:35:27 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.131	70	52427	10.00	ppb		# 0.00
41) CHLOROBENZENE-d5 (ISTD)	9.194	117	174050	10.00	ppb		0.01
70) 1,2-DICHLOROBENZENE-d4...	12.177	152	71218	10.00	ppb		# 0.02
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.816	65	70875	10.80	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 108.00%				
53) Toluene-d8 (SURR)	7.689	98	244862	8.77	ppb		0.01
Spiked Amount 10.000	Range 81 - 117		Recovery = 87.70%				
73) p-Bromofluorobenzene (...	10.482	95	78980	9.62	ppb		0.02
Spiked Amount 10.000	Range 79 - 122		Recovery = 96.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.604	85	350867m	75.56	ppb		
3) Chloromethane	1.829	50	583942m	52.22	ppb		
4) Vinyl Chloride	1.952	62	520248m	75.34	ppb		
5) Bromomethane	2.305	94	299643	612.05	ppb		66
6) Chloroethane	2.403	64	345330m	97.16	ppb		
7) Trichlorofluoromethane	2.689	101	721371	76.39	ppb		98
8) Ethanol	2.865	45	87943	5503.13	ppb	#	1
9) Freon-113	3.257	101	472732	88.98	ppb		99
10) 1,1-Dichloroethylene	3.237	61	850100	92.75	ppb		99
11) Acrolein	3.118	56	41544	92.59	ppb	#	83
12) Acetone	3.262	43	116769	95.57	ppb	#	97
13) Iodomethane	3.388	142	585252	205.04	ppb		100
14) Allyl Chloride	3.621	76	256878	83.14	ppb	#	100
15) Methyl Acetate	3.602	43	239640	113.56	ppb		99
16) Carbon disulfide	3.471	76	1176842	85.52	ppb		100
17) tert-Butyl Alcohol (TBA)	3.849	59	42907	40.89	ppb	#	1
18) Methylene Chloride	3.749	49	787582	95.61	ppb		95
19) Acrylonitrile	3.955	53	118905	140.25	ppb	#	65
20) trans-1,2-Dichloroethy...	4.039	61	849910	96.47	ppb	#	90
21) tert-Butyl Methyl Ethe...	4.025	73	1354949	107.06	ppb	#	88
22) 1,1-Dichloroethane	4.464	63	1068822	92.74	ppb		100
23) Vinyl Acetate	4.459	43	641281	95.58	ppb	#	100
24) Diisopropyl ether (DIPE)	4.503	45	2301177	104.41	ppb	#	99
25) Ethyl-tert-Butyl ether...	4.859	59	2047114	104.85	ppb	#	100
26) cis-1,2-Dichloroethylene	5.015	61	972946	91.90	ppb		99
27) 2-Butanone	4.985	72	42030	132.76	ppb	#	95
28) 2,2-Dichloropropane	5.024	77	536949	55.05	ppb	#	65
29) Tetrahydrofuran	5.260	42	123399	136.59	ppb	#	51
30) Bromochloromethane	5.246	49	497094	117.10	ppb		97
31) Chloroform	5.343	83	1025404	90.21	ppb	#	84
32) 1,1,1-Trichloroethane	5.508	97	943442	80.91	ppb		100
33) Cyclohexane	5.608	56	1161047m	149.54	ppb		
34) 1,1-Dichloropropylene	5.663	75	761856	84.32	ppb		93
36) Carbon Tetrachloride	5.669	117	826298	78.21	ppb	#	53
37) tert-Amyl alcohol (TAA)	5.839	59	393944	1149.75	ppb		98
38) 1,2-Dichloroethane	5.892	62	765353	98.18	ppb		100
39) Benzene	5.844	78	2101458	86.19	ppb	#	95
40) tert-Amyl methyl ether...	5.975	73	1490074	96.75	ppb	#	100
42) Trichloroethylene	6.490	95	606578	87.05	ppb		93
43) Methyl Cyclohexane	6.732	83	884326	87.73	ppb	#	74
44) Methyl Methacrylate	6.771	69	283256	112.47	ppb	#	21
45) Dibromomethane	6.818	93	291884	106.01	ppb	#	71
46) Bromodichloromethane	6.988	83	779300	93.44	ppb		99
47) 1,2-Dichloropropane	6.732	63	626554	97.68	ppb	#	99
48) 1,4-Dioxane	6.801	88	31448	1609.93	ppb	#	73
49) 2-nitropropane	7.169	43	150142	143.49	ppb	#	100
51) cis-1,3-Dichloropropene	7.416	75	837229	83.43	ppb		96
52) 4-Methyl-2-Pentanone	7.536	43	480213	120.00	ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619343.D
Acq On : 19 May 2020 2:15 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL7
Misc : QBQV6051820A
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 19 10:35:27 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration

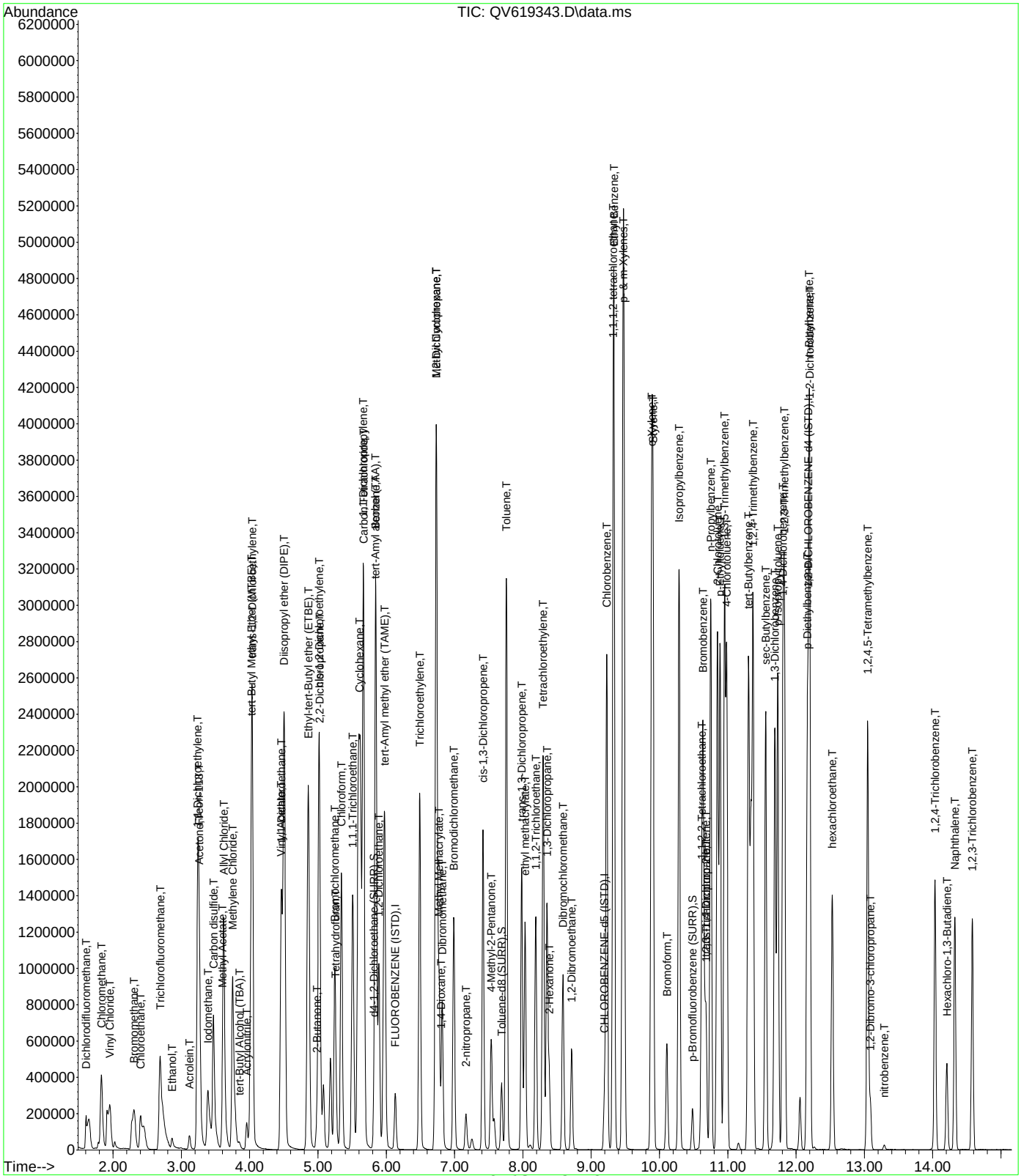
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Toluene	7.758	91	2283480	75.50	ppb		99
55) trans-1,3-Dichloropropene	7.981	75	711754	79.49	ppb		100
56) ethyl methacrylate	8.034	69	574943	98.23	ppb	#	100
57) 1,1,2-Trichloroethane	8.187	97	396458	93.54	ppb		99
58) 1,3-Dichloropropane	8.354	76	658360	102.94	ppb	#	62
59) Tetrachloroethylene	8.295	166	620894	67.43	ppb	#	100
60) 2-Hexanone	8.384	43	322700	135.99	ppb	#	15
61) Dibromochloromethane	8.588	129	506340	92.32	ppb		97
62) 1,2-Dibromoethane	8.713	107	389017	107.66	ppb		99
63) Chlorobenzene	9.227	112	1424438	87.44	ppb		96
64) 1,1,1,2-tetrachloroethane	9.322	131	552994	89.61	ppb		97
65) Ethyl Benzene	9.333	91	2440935	90.42	ppb		100
66) p- & m-Xylenes	9.472	91	3789135	180.58	ppb		97
67) o-Xylene	9.884	91	1921666	89.27	ppb		100
68) Styrene	9.906	104	1468957	92.65	ppb		95
69) Bromoform	10.109	173	296190	107.68	ppb	#	79
71) p-Ethyltoluene	10.886	105	1909969	66.11	ppb	#	67
72) Isopropylbenzene	10.288	105	2304715	76.54	ppb		96
74) 1,1,2,2-Tetrachloroethane	10.616	83	417268	114.27	ppb	#	69
75) Bromobenzene	10.635	77	986399	89.46	ppb		87
76) trans-1,4-Dichloro-2-b...	10.680	75	504817	166.43	ppb	#	66
77) 1,2,3-Trichloropropane	10.683	110	117935	98.25	ppb		59
78) n-Propylbenzene	10.749	91	2587201	74.13	ppb		98
79) 2-Chlorotoluene	10.850	91	1787324	74.34	ppb		99
80) 4-Chlorotoluene	10.986	91	1827001	71.91	ppb		97
81) 1,3,5-Trimethylbenzene	10.952	105	1759327	67.23	ppb	#	65
82) tert-Butylbenzene	11.303	119	1868695	70.71	ppb		93
83) 1,2,4-Trimethylbenzene	11.370	105	1744634	68.77	ppb		98
84) sec-Butylbenzene	11.556	105	1858463	71.03	ppb		98
85) 1,3-Dichlorobenzene	11.690	146	1015972	69.76	ppb		96
86) p-Isopropyltoluene	11.732	119	1719625	65.28	ppb		97
87) 1,4-Dichlorobenzene	11.807	146	1019431	70.67	ppb		96
88) 1,2,3-Trimethylbenzene	11.829	105	1637325	72.36	ppb		99
89) p-Diethylbenzene	12.166	105	768625	66.85	ppb	#	100
90) 1,2-Dichlorobenzene	12.199	146	921814	77.71	ppb	#	87
91) n-Butylbenzene	12.191	91	1573863	67.45	ppb		96
92) hexachloroethane	12.530	117	317164	69.76	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	13.086	75	70061	94.65	ppb		92
94) 1,2,4,5-Tetramethylben...	13.048	119	1442849	69.23	ppb		97
95) nitrobenzene	13.292	77	11453	87.79	ppb	#	100
96) 1,2,4-Trichlorobenzene	14.035	180	488595	87.79	ppb		96
97) Hexachloro-1,3-Butadiene	14.208	225	109491	65.55	ppb		99
98) Naphthalene	14.325	128	1105037	112.85	ppb		99
99) 1,2,3-Trichlorobenzene	14.581	180	414514	102.96	ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619343.D
Acq On : 19 May 2020 2:15 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL7
Misc : QBQV6051820A
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 19 10:35:27 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619344.D
Acq On : 19 May 2020 2:54 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL8
Misc : QBQV6051820A
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 19 10:14:45 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.128	70	51586	10.00	ppb		# 0.00
41) CHLOROBENZENE-d5 (ISTD)	9.197	117	163830	10.00	ppb		0.02
70) 1,2-DICHLOROBENZENE-d4...	12.177	152	70257	10.00	ppb		# 0.02
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.822	65	73615	11.40	ppb		0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 114.00%				
53) Toluene-d8 (SURR)	7.689	98	233954	8.90	ppb		0.01
Spiked Amount 10.000	Range 81 - 117		Recovery = 89.00%				
73) p-Bromofluorobenzene (...	10.482	95	75221	9.28	ppb		0.02
Spiked Amount 10.000	Range 79 - 122		Recovery = 92.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.643	85	489753m	107.19	ppb		
3) Chloromethane	1.824	50	886758m	80.59	ppb		
4) Vinyl Chloride	1.949	62	771256m	113.51	ppb		
5) Bromomethane	2.305	94	466235	967.86	ppb		67
6) Chloroethane	2.400	64	507707m	145.17	ppb		
7) Trichlorofluoromethane	2.687	101	1035224	111.41	ppb		98
8) Ethanol	2.862	45	138562	8812.02	ppb	#	1
9) Freon-113	3.254	101	670323	128.23	ppb		99
10) 1,1-Dichloroethylene	3.238	61	1234964	136.93	ppb		98
11) Acrolein	3.121	56	61552	139.42	ppb	#	83
12) Acetone	3.263	43	171793	142.90	ppb	#	96
13) Iodomethane	3.388	142	810237	247.25	ppb		100
14) Allyl Chloride	3.619	76	367722	120.96	ppb	#	100
15) Methyl Acetate	3.602	43	348405	167.79	ppb		99
16) Carbon disulfide	3.468	76	1703073	125.78	ppb		100
17) tert-Butyl Alcohol (TBA)	3.847	59	65217	63.16	ppb	#	1
18) Methylene Chloride	3.749	49	1166856	143.95	ppb		95
19) Acrylonitrile	3.955	53	175223	210.05	ppb	#	71
20) trans-1,2-Dichloroethy...	4.039	61	1216228	140.30	ppb		99
21) tert-Butyl Methyl Ethe...	4.022	73	1995476	160.25	ppb	#	100
22) 1,1-Dichloroethane	4.465	63	1524770	134.45	ppb		99
23) Vinyl Acetate	4.459	43	944702	143.10	ppb	#	100
24) Diisopropyl ether (DIPE)	4.506	45	3356285	154.76	ppb	#	99
25) Ethyl-tert-Butyl ether...	4.860	59	3007543	156.55	ppb	#	100
26) cis-1,2-Dichloroethylene	5.015	61	1405464	134.91	ppb		99
27) 2-Butanone	4.982	72	61988	198.99	ppb	#	95
28) 2,2-Dichloropropane	5.021	77	760271	79.22	ppb		96
29) Tetrahydrofuran	5.260	42	180878	203.47	ppb	#	51
30) Bromochloromethane	5.244	49	714975	171.17	ppb		97
31) Chloroform	5.344	83	1480971	132.42	ppb	#	84
32) 1,1,1-Trichloroethane	5.508	97	1389007	121.06	ppb	#	82
33) Cyclohexane	5.602	56	1303535m	170.63	ppb		
34) 1,1-Dichloropropylene	5.664	75	1102462	124.01	ppb		92
36) Carbon Tetrachloride	5.666	117	1210660	116.45	ppb	#	53
37) tert-Amyl alcohol (TAA)	5.839	59	579559	1719.06	ppb		98
38) 1,2-Dichloroethane	5.892	62	1144447	149.21	ppb		100
39) Benzene	5.847	78	3033804	126.46	ppb	#	94
40) tert-Amyl methyl ether...	5.975	73	2182974	144.05	ppb	#	90
42) Trichloroethylene	6.490	95	885802	135.06	ppb		92
43) Methyl Cyclohexane	6.732	83	1234907	130.16	ppb	#	74
44) Methyl Methacrylate	6.771	69	432454	182.42	ppb	#	28
45) Dibromomethane	6.818	93	426378	164.51	ppb		97
46) Bromodichloromethane	6.991	83	1149555	146.44	ppb		99
47) 1,2-Dichloropropane	6.735	63	907818	150.36	ppb	#	99
48) 1,4-Dioxane	6.799	88	46068	2505.49	ppb	#	86
49) 2-nitropropane	7.169	43	222640	226.05	ppb	#	100
51) cis-1,3-Dichloropropene	7.416	75	1203959	127.46	ppb		96
52) 4-Methyl-2-Pentanone	7.539	43	692052	183.72	ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619344.D
Acq On : 19 May 2020 2:54 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL8
Misc : QBQV6051820A
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 19 10:14:45 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration

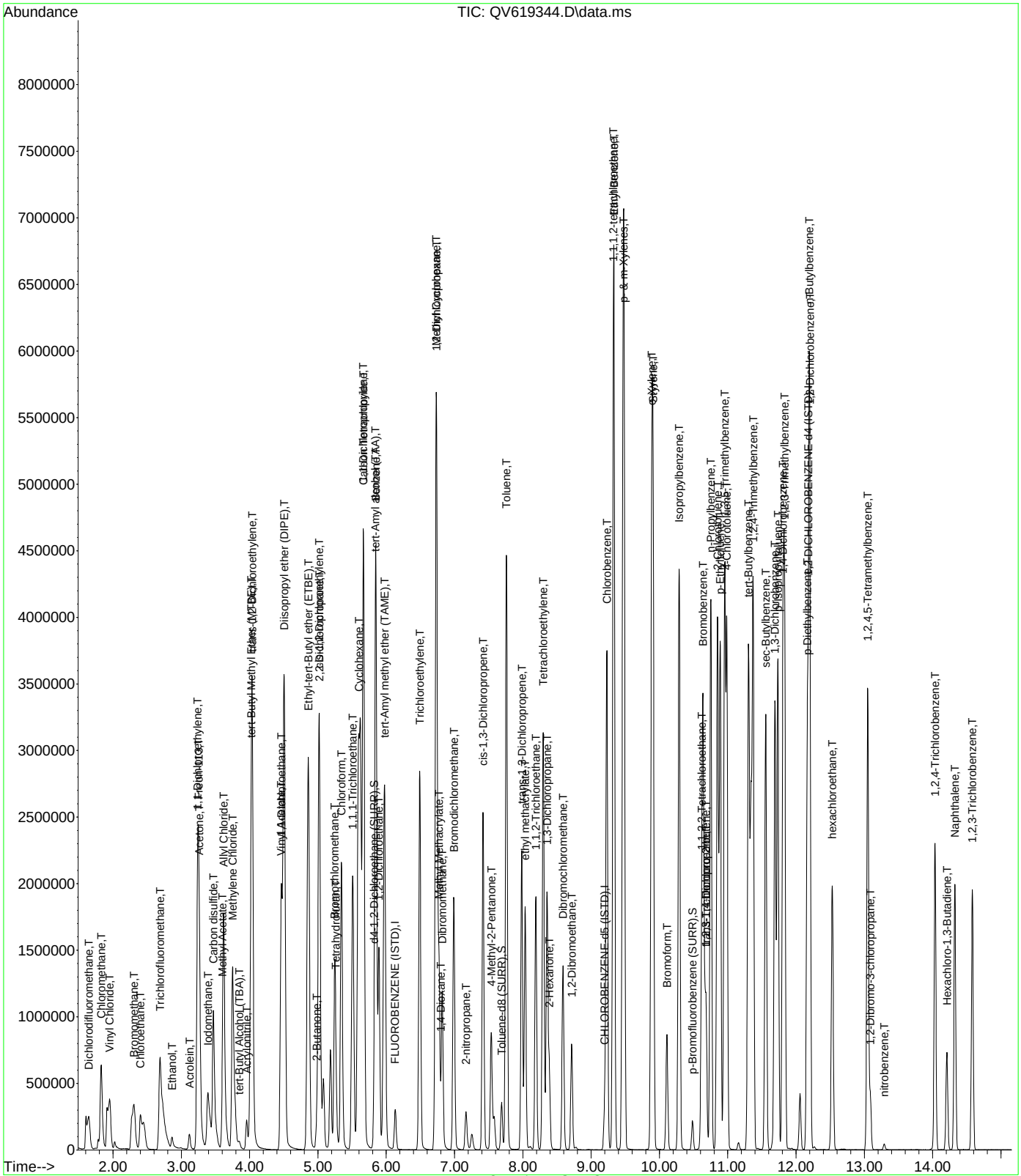
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Toluene	7.759	91	3231174	113.50	ppb		99
55) trans-1,3-Dichloropropene	7.984	75	1024636	121.57	ppb		100
56) ethyl methacrylate	8.034	69	831600	150.94	ppb	#	100
57) 1,1,2-Trichloroethane	8.190	97	570902	143.11	ppb		99
58) 1,3-Dichloropropane	8.354	76	939879	156.12	ppb	#	62
59) Tetrachloroethylene	8.298	166	888989	102.57	ppb	#	100
60) 2-Hexanone	8.385	43	466827	209.00	ppb	#	14
61) Dibromochloromethane	8.588	129	735661	142.49	ppb		97
62) 1,2-Dibromoethane	8.716	107	560632	164.83	ppb		99
63) Chlorobenzene	9.230	112	2001649	130.54	ppb		96
64) 1,1,1,2-tetrachloroethane	9.325	131	791214	136.22	ppb		97
65) Ethyl Benzene	9.333	91	3359486	132.21	ppb		100
66) p- & m-Xylenes	9.475	91	5226576	264.62	ppb		97
67) o-Xylene	9.887	91	2682385	132.38	ppb		100
68) Styrene	9.907	104	2063388	138.27	ppb		95
69) Bromoform	10.110	173	432306	166.97	ppb	#	80
71) p-Ethyltoluene	10.889	105	2655401	93.18	ppb	#	67
72) Isopropylbenzene	10.288	105	3160334	106.40	ppb		96
74) 1,1,2,2-Tetrachloroethane	10.616	83	597569	165.89	ppb	#	69
75) Bromobenzene	10.636	77	1406049	129.26	ppb		88
76) trans-1,4-Dichloro-2-b...	10.680	75	729615	243.84	ppb	#	66
77) 1,2,3-Trichloropropane	10.680	110	171870	145.14	ppb	#	1
78) n-Propylbenzene	10.752	91	3556560	103.30	ppb		98
79) 2-Chlorotoluene	10.850	91	2514703	106.03	ppb		99
80) 4-Chlorotoluene	10.986	91	2575903	102.77	ppb		97
81) 1,3,5-Trimethylbenzene	10.955	105	2468099	95.60	ppb	#	64
82) tert-Butylbenzene	11.303	119	2607666	100.02	ppb		93
83) 1,2,4-Trimethylbenzene	11.373	105	2486987	99.37	ppb		98
84) sec-Butylbenzene	11.556	105	2574850	99.75	ppb		97
85) 1,3-Dichlorobenzene	11.690	146	1467713	102.15	ppb		96
86) p-Isopropyltoluene	11.735	119	2432451	93.60	ppb		97
87) 1,4-Dichlorobenzene	11.807	146	1479396	103.97	ppb		96
88) 1,2,3-Trimethylbenzene	11.832	105	2371785	106.25	ppb		99
89) p-Diethylbenzene	12.166	105	1107670	97.66	ppb	#	99
90) 1,2-Dichlorobenzene	12.202	146	1347085	115.12	ppb	#	73
91) n-Butylbenzene	12.194	91	2240059	97.31	ppb		96
92) hexachloroethane	12.530	117	453278	101.06	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	13.087	75	120193	164.59	ppb	#	27
94) 1,2,4,5-Tetramethylben...	13.048	119	2146877	104.42	ppb		97
95) nitrobenzene	13.293	77	19714	153.18	ppb	#	100
96) 1,2,4-Trichlorobenzene	14.035	180	755996	137.70	ppb		96
97) Hexachloro-1,3-Butadiene	14.208	225	163895	99.47	ppb		99
98) Naphthalene	14.325	128	1670367	172.92	ppb		99
99) 1,2,3-Trichlorobenzene	14.581	180	643641	162.05	ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619344.D
Acq On : 19 May 2020 2:54 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL8
Misc : QBQV6051820A
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 19 10:14:45 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619345.D
Acq On : 19 May 2020 3:32 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL9
Misc : QBQV6051820A
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 19 10:12:40 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.134	70	49830	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	9.197	117	156711	10.00	ppb		0.02
70) 1,2-DICHLOROBENZENE-d4...	12.180	152	67466	10.00	ppb	#	0.02
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.822	65	73446	11.77	ppb		0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 117.70%				
53) Toluene-d8 (SURR)	7.689	98	224926	8.94	ppb		0.01
Spiked Amount 10.000	Range 81 - 117		Recovery = 89.40%				
73) p-Bromofluorobenzene (...	10.485	95	72325	9.29	ppb		0.02
Spiked Amount 10.000	Range 79 - 122		Recovery = 92.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.646	85	674429m	152.81	ppb		
3) Chloromethane	1.830	50	1213234m	114.15	ppb		
4) Vinyl Chloride	1.949	62	1033578m	157.47	ppb		
5) Bromomethane	2.311	94	654597	1406.77	ppb		66
6) Chloroethane	2.406	64	679544m	201.16	ppb		
7) Trichlorofluoromethane	2.692	101	1403184	156.33	ppb		98
8) Ethanol	2.867	45	185783	12231.46	ppb	#	1
9) Freon-113	3.260	101	927422	183.66	ppb	#	78
10) 1,1-Dichloroethylene	3.243	61	1656732	190.17	ppb		99
11) Acrolein	3.121	56	86281	202.31	ppb	#	83
12) Acetone	3.263	43	240615	207.20	ppb	#	96
13) Iodomethane	3.396	142	998247	282.08	ppb		100
14) Allyl Chloride	3.624	76	475160	161.80	ppb	#	100
15) Methyl Acetate	3.605	43	470916	234.78	ppb		99
16) Carbon disulfide	3.474	76	2273517	173.83	ppb		100
17) tert-Butyl Alcohol (TBA)	3.850	59	88018	88.25	ppb	#	1
18) Methylene Chloride	3.752	49	1557718	198.95	ppb		95
19) Acrylonitrile	3.958	53	238509	296.00	ppb	#	65
20) trans-1,2-Dichloroethy...	4.044	61	1612657	192.59	ppb		99
21) tert-Butyl Methyl Ethe...	4.028	73	2683315	223.08	ppb	#	88
22) 1,1-Dichloroethane	4.470	63	2016766	184.10	ppb	#	97
23) Vinyl Acetate	4.462	43	1275626	200.03	ppb	#	100
24) Diisopropyl ether (DIPE)	4.509	45	4436101	211.76	ppb	#	99
25) Ethyl-tert-Butyl ether...	4.862	59	4015551	216.38	ppb	#	85
26) cis-1,2-Dichloroethylene	5.018	61	1854400	184.28	ppb		100
27) 2-Butanone	4.988	72	83365	277.04	ppb	#	95
28) 2,2-Dichloropropane	5.024	77	980008	105.72	ppb		96
29) Tetrahydrofuran	5.263	42	235947	274.78	ppb	#	51
30) Bromochloromethane	5.249	49	937552	232.37	ppb		97
31) Chloroform	5.346	83	1921193	177.83	ppb	#	84
32) 1,1,1-Trichloroethane	5.513	97	1885077	170.09	ppb	#	82
33) Cyclohexane	5.602	56	1556682m	210.94	ppb		
34) 1,1-Dichloropropylene	5.666	75	1488290	173.31	ppb		91
36) Carbon Tetrachloride	5.672	117	1663208	165.62	ppb	#	53
37) tert-Amyl alcohol (TAA)	5.844	59	765096	2349.36	ppb	#	83
38) 1,2-Dichloroethane	5.895	62	1544275	208.43	ppb		100
39) Benzene	5.850	78	4036694	174.20	ppb	#	94
40) tert-Amyl methyl ether...	5.978	73	2911796	198.92	ppb	#	100
42) Trichloroethylene	6.493	95	1198922	191.10	ppb		92
43) Methyl Cyclohexane	6.735	83	1653910	182.24	ppb	#	74
44) Methyl Methacrylate	6.777	69	576381	254.18	ppb	#	28
45) Dibromomethane	6.821	93	545829	220.17	ppb		97
46) Bromodichloromethane	6.991	83	1534787	204.39	ppb		99
47) 1,2-Dichloropropane	6.735	63	1197301	207.32	ppb	#	98
48) 1,4-Dioxane	6.807	88	61188	3479.00	ppb	#	73
49) 2-nitropropane	7.169	43	302495	321.08	ppb	#	100
51) cis-1,3-Dichloropropene	7.419	75	1588166	175.77	ppb		95
52) 4-Methyl-2-Pentanone	7.539	43	929165	257.87	ppb		96

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619345.D
Acq On : 19 May 2020 3:32 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL9
Misc : QBQV6051820A
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 19 10:12:40 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration

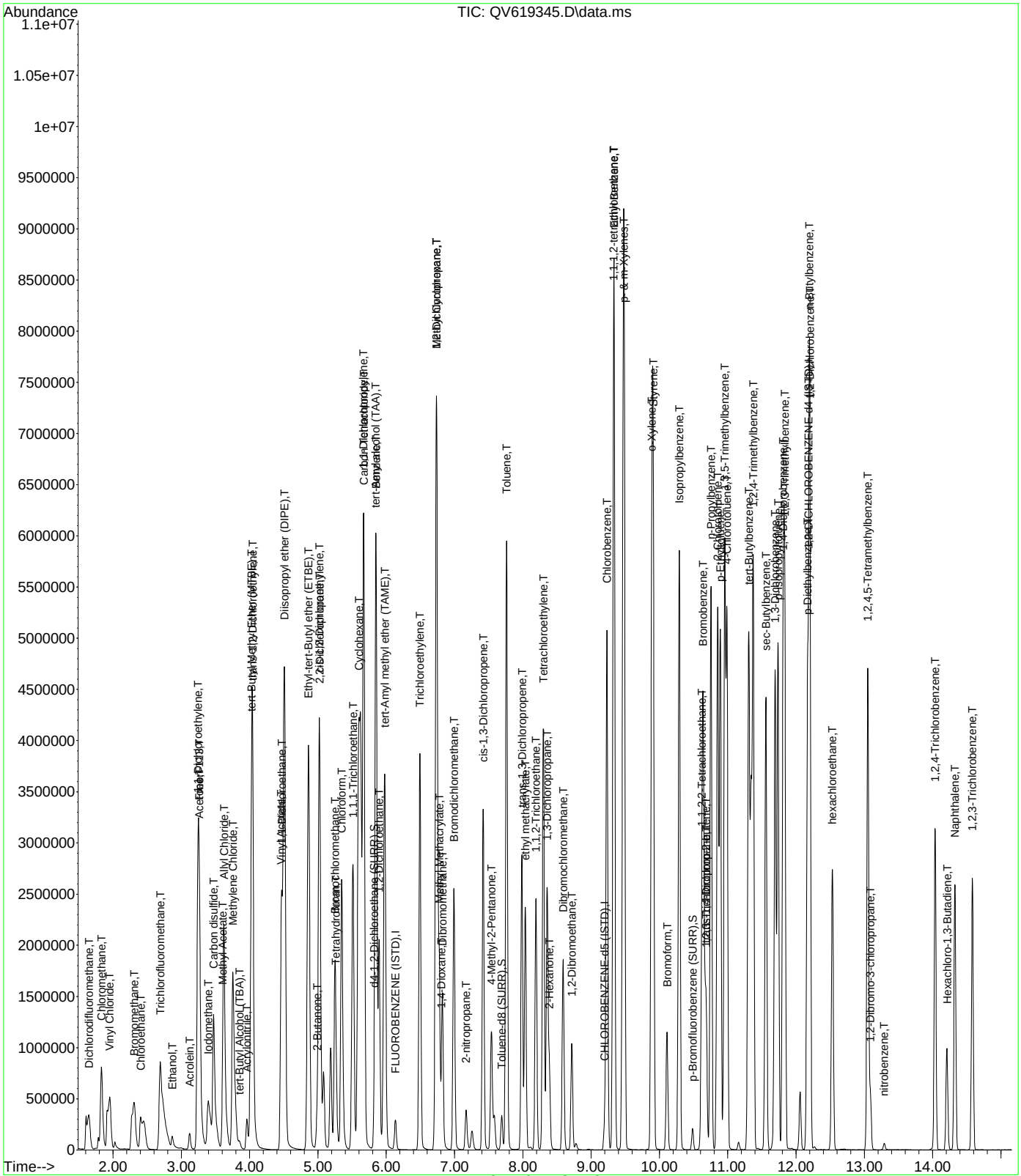
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Toluene	7.761	91	4248531	156.01	ppb		99
55) trans-1,3-Dichloropropene	7.987	75	1346991	167.08	ppb		100
56) ethyl methacrylate	8.037	69	1098491	208.43	ppb	#	100
57) 1,1,2-Trichloroethane	8.190	97	755101	197.88	ppb		99
58) 1,3-Dichloropropane	8.357	76	1234798	214.43	ppb	#	87
59) Tetrachloroethylene	8.301	166	1206190	145.49	ppb	#	100
60) 2-Hexanone	8.387	43	615966	288.30	ppb	#	14
61) Dibromochloromethane	8.591	129	978007	198.04	ppb		97
62) 1,2-Dibromoethane	8.716	107	738467	226.98	ppb		99
63) Chlorobenzene	9.230	112	2646540	180.44	ppb		96
64) 1,1,1,2-tetrachloroethane	9.328	131	1041184	187.40	ppb		97
65) Ethyl Benzene	9.336	91	4375734	180.03	ppb		100
66) p- & m-Xylenes	9.478	91	6832685	361.65	ppb		97
67) o-Xylene	9.887	91	3548745	183.09	ppb		99
68) Styrene	9.909	104	2716889	190.33	ppb		95
69) Bromoform	10.112	173	584074	235.83	ppb		99
71) p-Ethyltoluene	10.891	105	3562132	130.16	ppb	#	82
72) Isopropylbenzene	10.291	105	4201243	147.29	ppb		96
74) 1,1,2,2-Tetrachloroethane	10.619	83	793601	229.42	ppb	#	69
75) Bromobenzene	10.638	77	1878046	179.79	ppb		88
76) trans-1,4-Dichloro-2-b...	10.680	75	967875	336.85	ppb	#	66
77) 1,2,3-Trichloropropane	10.683	110	229681	201.99	ppb	#	1
78) n-Propylbenzene	10.755	91	4720549	142.79	ppb		97
79) 2-Chlorotoluene	10.853	91	3351812	147.17	ppb		99
80) 4-Chlorotoluene	10.989	91	3463568	143.90	ppb		97
81) 1,3,5-Trimethylbenzene	10.955	105	3327068	134.21	ppb	#	65
82) tert-Butylbenzene	11.309	119	3478122	138.92	ppb		94
83) 1,2,4-Trimethylbenzene	11.373	105	3350517	139.42	ppb		98
84) sec-Butylbenzene	11.559	105	3462053	139.67	ppb		97
85) 1,3-Dichlorobenzene	11.693	146	1994274	144.54	ppb		96
86) p-Isopropyltoluene	11.737	119	3277845	131.35	ppb		97
87) 1,4-Dichlorobenzene	11.810	146	2009963	147.09	ppb		96
88) 1,2,3-Trimethylbenzene	11.835	105	3186369	148.64	ppb		99
89) p-Diethylbenzene	12.169	105	1507368	138.39	ppb	#	100
90) 1,2-Dichlorobenzene	12.205	146	1816101	161.62	ppb	#	73
91) n-Butylbenzene	12.194	91	3014003	136.35	ppb		96
92) hexachloroethane	12.530	117	620114	143.97	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	13.087	75	163793	233.58	ppb	#	85
94) 1,2,4,5-Tetramethylben...	13.051	119	2913003	147.54	ppb		97
95) nitrobenzene	13.290	77	29662	240.01	ppb	#	100
96) 1,2,4-Trichlorobenzene	14.035	180	1047946	198.77	ppb		96
97) Hexachloro-1,3-Butadiene	14.211	225	225994	142.83	ppb		100
98) Naphthalene	14.325	128	2257507	243.37	ppb		100
99) 1,2,3-Trichlorobenzene	14.581	180	888564	232.97	ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619345.D
Acq On : 19 May 2020 3:32 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CAL9
Misc : QBQV6051820A
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 19 10:12:40 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO071.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu Apr 23 15:50:11 2020
Response via : Initial Calibration



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20F0067

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.20 Kingston CVS

Calibration: YF00003 **Laboratory ID:** Y0F0307-SCV1

Sequence: Y0F0307 **Standard ID:** Y20E013

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	9.74	-2.6	30.00
1,1,1-Trichloroethane	10.0	9.70	-3.0	30.00
1,1,2,2-Tetrachloroethane	10.0	10.1	1.2	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.5	5.3	30.00
1,1,2-Trichloroethane	10.0	9.76	-2.4	30.00
1,1-Dichloroethane	10.0	9.74	-2.6	30.00
1,1-Dichloroethylene	10.0	9.64	-3.6	30.00
1,2,3-Trichlorobenzene	10.0	9.57	-4.3	30.00
1,2,3-Trichloropropane	10.0	10.3	2.6	30.00
1,2,4-Trichlorobenzene	10.0	9.51	-4.9	30.00
1,2,4-Trimethylbenzene	10.0	9.84	-1.6	30.00
1,2-Dibromo-3-chloropropane	10.0	9.65	-3.5	30.00
1,2-Dibromoethane	10.0	9.80	-2.0	30.00
1,2-Dichlorobenzene	10.0	9.87	-1.3	30.00
1,2-Dichloroethane	10.0	9.42	-5.8	30.00
1,2-Dichloropropane	10.0	9.88	-1.2	30.00
1,3,5-Trimethylbenzene	10.0	9.85	-1.5	30.00
1,3-Dichlorobenzene	10.0	9.63	-3.7	30.00
1,4-Dichlorobenzene	10.0	9.35	-6.5	30.00
1,4-Dioxane	210	237	13.1	30.00
2-Butanone	10.0	8.60	-14.0	30.00
2-Hexanone	10.0	9.89	-1.1	30.00
4-Methyl-2-pentanone	10.0	10.3	3.4	30.00
Acetone	10.0	9.72	-2.8	30.00
Acrolein	10.0	11.7	16.8	30.00
Acrylonitrile	10.0	10.5	4.7	30.00
Benzene	10.0	10.1	1.3	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20F0067

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.20 Kingston CVS

Calibration: YF00003 **Laboratory ID:** Y0F0307-SCV1

Sequence: Y0F0307 **Standard ID:** Y20E013

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
Bromochloromethane	10.0	9.81	-1.9	30.00
Bromodichloromethane	10.0	9.57	-4.3	30.00
Bromoform	10.0	9.94	-0.6	30.00
Bromomethane	10.0	25.8	158 *	30.00
Carbon disulfide	10.0	9.56	-4.4	30.00
Carbon tetrachloride	10.0	9.49	-5.1	30.00
Chlorobenzene	10.0	9.90	-1.0	30.00
Chloroethane	10.0	10.8	8.5	30.00
Chloroform	10.0	9.60	-4.0	30.00
Chloromethane	10.0	7.66	-23.4	30.00
cis-1,2-Dichloroethylene	10.0	9.42	-5.8	30.00
cis-1,3-Dichloropropylene	10.0	9.40	-6.0	30.00
Cyclohexane	10.0	4.36	-56.4 *	30.00
Dibromochloromethane	10.0	9.82	-1.8	30.00
Dibromomethane	10.0	9.55	-4.5	30.00
Dichlorodifluoromethane	10.0	5.01	-49.9 *	30.00
Ethyl Benzene	10.0	9.95	-0.5	30.00
Hexachlorobutadiene	10.0	9.31	-6.9	30.00
Isopropylbenzene	10.0	9.45	-5.5	30.00
Methyl acetate	10.0	9.92	-0.8	30.00
Methyl tert-butyl ether (MTBE)	10.0	10.0	0.0	30.00
Methylcyclohexane	10.0	10.3	2.7	30.00
Methylene chloride	10.0	9.81	-1.9	30.00
n-Butylbenzene	10.0	9.84	-1.6	30.00
n-Propylbenzene	10.0	9.59	-4.1	30.00
o-Xylene	10.0	9.87	-1.3	30.00
p- & m- Xylenes	20.0	19.6	-2.1	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20F0067

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.20 Kingston CVS

Calibration: YF00003 **Laboratory ID:** Y0F0307-SCV1

Sequence: Y0F0307 **Standard ID:** Y20E013

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	10.0	10.0	0.3	30.00
sec-Butylbenzene	10.0	10.3	2.7	30.00
Styrene	10.0	10.2	1.8	30.00
tert-Butyl alcohol (TBA)	50.0	49.9	-0.2	30.00
tert-Butylbenzene	10.0	8.37	-16.3	30.00
Tetrachloroethylene	10.0	9.47	-5.3	30.00
Toluene	10.0	9.94	-0.6	30.00
trans-1,2-Dichloroethylene	10.0	10.0	0.4	30.00
trans-1,3-Dichloropropylene	10.0	9.25	-7.5	30.00
trans-1,4-dichloro-2-butene	10.0	8.69	-13.1	30.00
Trichloroethylene	10.0	9.81	-1.9	30.00
Trichlorofluoromethane	10.0	9.62	-3.8	30.00
Vinyl Chloride	10.0	8.04	-19.6	30.00

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911793.D
Acq On : 20 May 2020 11:30 pm
Operator : TMP
Sample : SEQ-SCV1
Misc : QBQV9052020A
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 21 11:16:20 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.744	70	178330	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.792	117	728756	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.779	152	289853	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.427	65	230851	9.47	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 94.70%				
51) Toluene-d8 (SURR)	7.287	98	941988	9.98	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 99.80%				
70) p-Bromofluorobenzene (...	10.082	95	396293	9.78	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 97.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.541	85	71698	5.01	ppb	#	1
3) Chloromethane	1.713	50	75083	7.66	ppb		95
4) Vinyl Chloride	1.815	62	109682	8.04	ppb	#	98
5) Bromomethane	2.131	94	60027	25.79	ppb		98
6) Chloroethane	2.236	64	74872	10.85	ppb	#	20
7) Trichlorofluoromethane	2.492	101	241592	9.62	ppb	#	20
9) Freon-113	3.000	101	150401	10.53	ppb	#	1
10) 1,1-Dichloroethylene	2.989	61	233522	9.64	ppb	#	83
11) Acrolein	2.875	56	11670	11.68	ppb	#	1
12) Acetone	3.000	43	23946	9.72	ppb	#	1
13) Iodomethane	3.134	142	122985	7.87	ppb	#	69
14) Methyl Acetate	3.320	43	46904	9.92	ppb	#	1
15) Carbon disulfide	3.215	76	362980	9.56	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.535	59	57654	49.89	ppb	#	1
17) Methylene Chloride	3.451	49	195183	9.81	ppb	#	74
18) Acrylonitrile	3.727	53	4839	10.47	ppb	#	1
19) trans-1,2-Dichloroethy...	3.727	61	230160	10.04	ppb	#	82
20) tert-Butyl Methyl Ethe...	3.724	73	442716	10.00	ppb	#	97
21) 1,1-Dichloroethane	4.125	63	309742	9.74	ppb	#	99
22) Vinyl Acetate	4.113	43	150256	13.69	ppb	#	1
23) Diisopropyl ether (DIPE)	4.174	45	474642	9.42	ppb	#	40
24) Ethyl-tert-Butyl ether...	4.508	59	592323	9.95	ppb	#	99
25) cis-1,2-Dichloroethylene	4.651	61	272975	9.42	ppb	#	84
26) 2-Butanone	4.616	72	10047	8.60	ppb	#	1
27) 2,2-Dichloropropane	4.665	77	221131	7.72	ppb	#	87
28) Tetrahydrofuran	4.904	42	22751	10.33	ppb	#	1
29) Bromochloromethane	4.869	49	112959	9.81	ppb	#	48
30) Chloroform	4.959	83	349462	9.60	ppb	#	94
31) 1,1,1-Trichloroethane	5.136	97	349040	9.70	ppb	#	72
32) Cyclohexane	5.235	56	275231	4.36	ppb	#	74
33) 1,1-Dichloropropylene	5.290	75	248540	9.60	ppb	#	83
35) Carbon Tetrachloride	5.299	117	286814	9.49	ppb	#	100
36) tert-Amyl alcohol (TAA)	5.441	59	100739	109.99	ppb	#	1
37) 1,2-Dichloroethane	5.502	62	234365	9.42	ppb	#	98
38) Benzene	5.467	78	710155	10.13	ppb	#	95
39) tert-Amyl methyl ether...	5.598	73	501612	10.18	ppb	#	1
41) Trichloroethylene	6.101	95	196861	9.81	ppb	#	72
42) Methyl Cyclohexane	6.351	83	311056	10.27	ppb	#	54
43) Methyl Methacrylate	6.365	69	143997	9.84	ppb	#	98
44) Dibromomethane	6.415	93	84761	9.55	ppb	#	88
45) Bromodichloromethane	6.578	83	263122	9.57	ppb	#	97
46) 1,2-Dichloropropane	6.331	63	174766	9.88	ppb	#	90
47) 1,4-Dioxane	6.403	88	13257	237.43	ppb	#	92
49) cis-1,3-Dichloropropene	7.005	75	285995	9.40	ppb	#	74
50) 4-Methyl-2-Pentanone	7.124	43	90754	10.34	ppb	#	54
52) Toluene	7.356	91	810504	9.94	ppb		100
53) trans-1,3-Dichloropropene	7.566	75	246711	9.25	ppb	#	99

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911793.D
Acq On : 20 May 2020 11:30 pm
Operator : TMP
Sample : SEQ-SCV1
Misc : QBQV9052020A
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 21 11:16:20 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

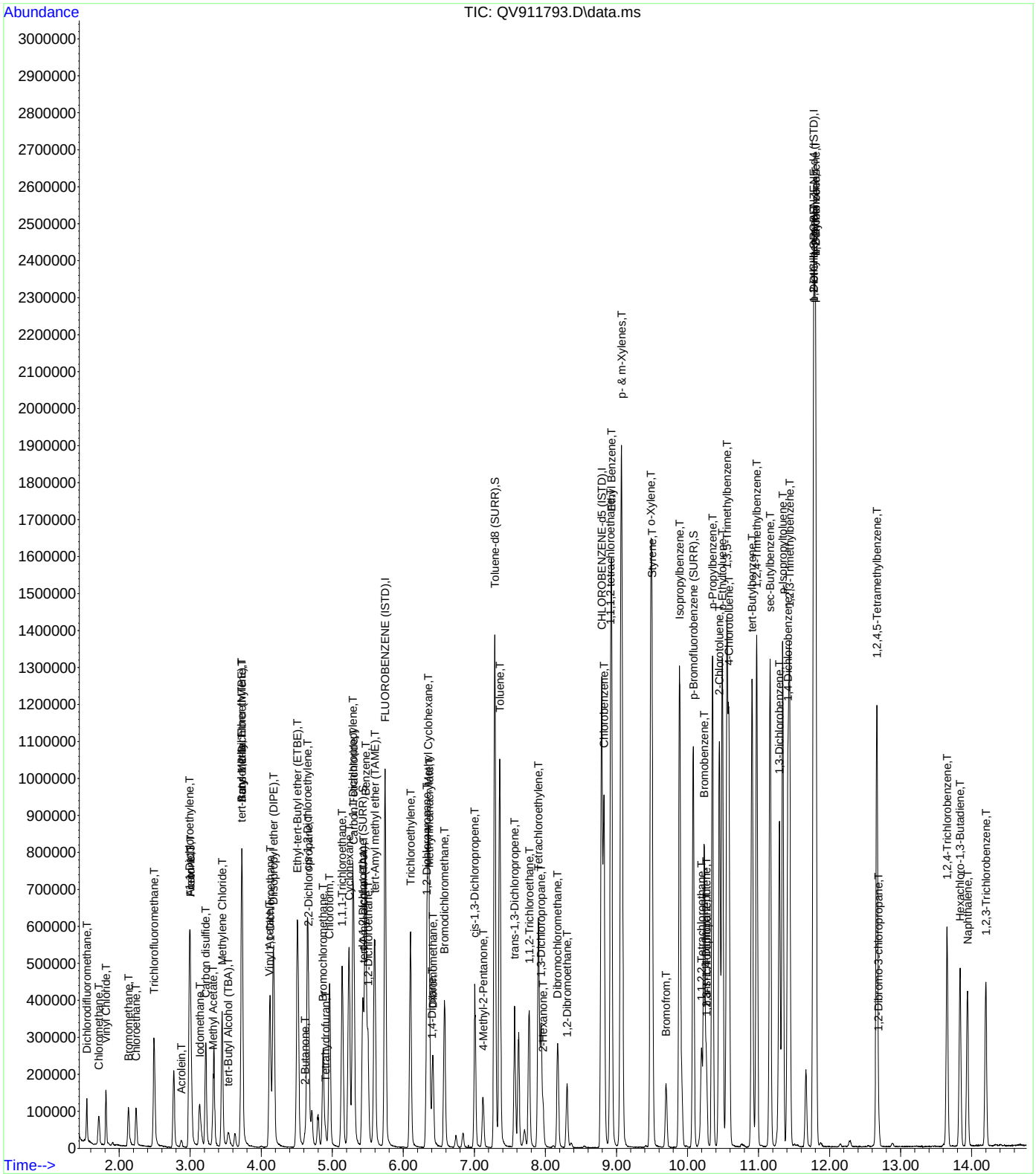
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	7.772	97	123283	9.76	ppb	#	1
55) 1,3-Dichloropropane	7.938	76	223146	9.84	ppb	#	70
56) Tetrachloroethylene	7.900	166	178269	9.47	ppb	#	100
57) 2-Hexanone	7.964	43	60584	9.89	ppb	#	1
58) Dibromochloromethane	8.170	129	155169	9.82	ppb	#	84
59) 1,2-Dibromoethane	8.304	107	117429	9.80	ppb		93
60) Chlorobenzene	8.824	112	514871	9.90	ppb	#	87
61) 1,1,1,2-tetrachloroethane	8.917	131	184925	9.74	ppb	#	47
62) Ethyl Benzene	8.928	91	969450	9.95	ppb		95
63) p- & m-Xylenes	9.071	91	1534657	19.58	ppb		92
64) o-Xylene	9.483	91	795873	9.87	ppb		95
65) Styrene	9.501	104	577538	10.18	ppb	#	82
66) Bromofrom	9.699	173	84036	9.94	ppb	#	95
68) p-Ethyltoluene	10.489	105	916768	10.53	ppb	#	97
69) Isopropylbenzene	9.887	105	964011	9.45	ppb	#	90
71) 1,1,2,2-Tetrachloroethane	10.195	83	131283	10.12	ppb	#	65
72) Bromobenzene	10.233	77	393652	9.89	ppb	#	75
73) trans-1,4-Dichloro-2-b...	10.265	75	90288	8.69	ppb	#	55
74) 1,2,3-Trichloropropane	10.268	110	42968	10.26	ppb	#	1
75) n-Propylbenzene	10.352	91	1136339	9.59	ppb	#	90
76) 2-Chlorotoluene	10.448	91	702370	9.55	ppb		98
77) 4-Chlorotoluene	10.582	91	811472	9.51	ppb		95
78) 1,3,5-Trimethylbenzene	10.556	105	838925	9.85	ppb	#	59
79) tert-Butylbenzene	10.907	119	675974	8.37	ppb	#	86
80) 1,2,4-Trimethylbenzene	10.974	105	839004	9.84	ppb		93
81) sec-Butylbenzene	11.163	105	987811	10.27	ppb	#	91
82) 1,3-Dichlorobenzene	11.294	146	369122	9.63	ppb	#	89
83) p-Isopropyltoluene	11.340	119	856923	10.03	ppb		93
84) 1,4-Dichlorobenzene	11.413	146	353212m	9.35	ppb		
85) 1,2,3-Trimethylbenzene	11.436	105	826142	10.75	ppb	#	90
86) p-Diethylbenzene	11.776	105	485899	11.04	ppb	#	59
87) 1,2-Dichlorobenzene	11.802	146	319191	9.87	ppb	#	100
88) n-Butylbenzene	11.802	91	936632	9.84	ppb		97
89) 1,2-Dibromo-3-chloropr...	12.689	75	29154	9.65	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.666	119	725109	9.74	ppb	#	86
91) 1,2,4-Trichlorobenzene	13.654	180	191317	9.51	ppb	#	16
92) Hexachloro-1,3-Butadiene	13.837	225	113365	9.31	ppb	#	63
93) Naphthalene	13.941	128	349010	9.49	ppb	#	94
94) 1,2,3-Trichlorobenzene	14.200	180	143220	9.57	ppb	#	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\052020A\
Data File : QV911793.D
Acq On : 20 May 2020 11:30 pm
Operator : TMP
Sample : SEQ-SCV1
Misc : QBQV9052020A
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 21 11:16:20 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20F0067

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.20 Kingston CVS

Calibration: YF00005 **Laboratory ID:** Y0F0409-SCV1

Sequence: Y0F0409 **Standard ID:** Y20E013

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	10.2	2.2	30.00
1,1,1-Trichloroethane	10.0	10.7	7.4	30.00
1,1,2,2-Tetrachloroethane	10.0	10.7	6.8	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.3	3.4	30.00
1,1,2-Trichloroethane	10.0	10.5	4.8	30.00
1,1-Dichloroethane	10.0	10.5	5.3	30.00
1,1-Dichloroethylene	10.0	10.8	8.1	30.00
1,2,3-Trichlorobenzene	10.0	9.66	-3.4	30.00
1,2,3-Trichloropropane	10.0	10.6	6.3	30.00
1,2,4-Trichlorobenzene	10.0	9.61	-3.9	30.00
1,2,4-Trimethylbenzene	10.0	10.0	0.5	30.00
1,2-Dibromo-3-chloropropane	10.0	11.1	11.2	30.00
1,2-Dibromoethane	10.0	10.6	6.3	30.00
1,2-Dichlorobenzene	10.0	9.97	-0.3	30.00
1,2-Dichloroethane	10.0	10.8	8.3	30.00
1,2-Dichloropropane	10.0	10.1	1.1	30.00
1,3,5-Trimethylbenzene	10.0	10.0	0.1	30.00
1,3-Dichlorobenzene	10.0	9.75	-2.5	30.00
1,4-Dichlorobenzene	10.0	9.82	-1.8	30.00
1,4-Dioxane	210	289	37.8 *	30.00
2-Butanone	10.0	10.7	7.3	30.00
2-Hexanone	10.0	11.3	12.7	30.00
4-Methyl-2-pentanone	10.0	10.8	8.5	30.00
Acetone	10.0	10.5	5.1	30.00
Acrolein	10.0	12.0	20.1	30.00
Acrylonitrile	10.0	12.0	19.8	30.00
Benzene	10.0	10.9	9.0	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20F0067

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.20 Kingston CVS

Calibration: YF00005 **Laboratory ID:** Y0F0409-SCV1

Sequence: Y0F0409 **Standard ID:** Y20E013

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
Bromochloromethane	10.0	10.4	4.2	30.00
Bromodichloromethane	10.0	10.3	2.7	30.00
Bromoform	10.0	10.6	5.5	30.00
Bromomethane	10.0	8.99	-10.1	30.00
Carbon disulfide	10.0	10.4	4.5	30.00
Carbon tetrachloride	10.0	10.3	2.6	30.00
Chlorobenzene	10.0	10.4	3.6	30.00
Chloroethane	10.0	11.9	18.6	30.00
Chloroform	10.0	10.8	8.5	30.00
Chloromethane	10.0	8.55	-14.5	30.00
cis-1,2-Dichloroethylene	10.0	10.4	3.7	30.00
cis-1,3-Dichloropropylene	10.0	9.90	-1.0	30.00
Cyclohexane	10.0	10.7	7.4	30.00
Dibromochloromethane	10.0	10.7	7.0	30.00
Dibromomethane	10.0	10.1	0.8	30.00
Dichlorodifluoromethane	10.0	6.36	-36.4 *	30.00
Ethyl Benzene	10.0	10.5	5.3	30.00
Hexachlorobutadiene	10.0	9.31	-6.9	30.00
Isopropylbenzene	10.0	9.61	-3.9	30.00
Methyl acetate	10.0	9.61	-3.9	30.00
Methyl tert-butyl ether (MTBE)	10.0	11.1	11.4	30.00
Methylcyclohexane	10.0	9.33	-6.7	30.00
Methylene chloride	10.0	11.1	11.1	30.00
n-Butylbenzene	10.0	9.69	-3.1	30.00
n-Propylbenzene	10.0	9.68	-3.2	30.00
o-Xylene	10.0	10.5	4.7	30.00
p- & m- Xylenes	20.0	20.9	4.4	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20F0067

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.20 Kingston CVS

Calibration: YF00005 **Laboratory ID:** Y0F0409-SCV1

Sequence: Y0F0409 **Standard ID:** Y20E013

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	10.0	9.88	-1.2	30.00
sec-Butylbenzene	10.0	10.0	0.2	30.00
Styrene	10.0	10.9	8.8	30.00
tert-Butyl alcohol (TBA)	50.0	53.8	7.6	30.00
tert-Butylbenzene	10.0	7.88	-21.2	30.00
Tetrachloroethylene	10.0	9.62	-3.8	30.00
Toluene	10.0	10.2	2.5	30.00
trans-1,2-Dichloroethylene	10.0	11.1	11.0	30.00
trans-1,3-Dichloropropylene	10.0	9.84	-1.6	30.00
trans-1,4-dichloro-2-butene	10.0	9.89	-1.1	30.00
Trichloroethylene	10.0	10.1	0.6	30.00
Trichlorofluoromethane	10.0	10.1	1.3	30.00
Vinyl Chloride	10.0	9.09	-9.1	30.00

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619348.D
Acq On : 19 May 2020 5:19 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-SCV1
Misc : QBQV6051820A
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 11:54:28 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue May 19 10:50:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.136	70	48689	10.00	ppb	#	0.01
41) CHLOROBENZENE-d5 (ISTD)	9.197	117	171356	10.00	ppb		0.02
70) 1,2-DICHLOROBENZENE-d4...	12.174	152	74580	10.00	ppb		0.02
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.822	65	68737	10.23	ppb		0.01
Spiked Amount 10.000	Range 69 - 130		Recovery = 102.30%				
53) Toluene-d8 (SURR)	7.689	98	229548	9.60	ppb		0.01
Spiked Amount 10.000	Range 81 - 117		Recovery = 96.00%				
73) p-Bromofluorobenzene (...	10.482	95	82624	9.80	ppb		0.02
Spiked Amount 10.000	Range 79 - 122		Recovery = 98.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.607	85	25028m	6.36	ppb		
3) Chloromethane	1.827	50	57870m	8.55	ppb		
4) Vinyl Chloride	1.919	62	53645m	9.09	ppb		
5) Bromomethane	2.277	94	34032m	8.99	ppb		
6) Chloroethane	2.408	64	46077m	11.86	ppb		
7) Trichlorofluoromethane	2.692	101	79614	10.13	ppb		98
9) Freon-113	3.262	101	50636	10.34	ppb		99
10) 1,1-Dichloroethylene	3.240	61	101122	10.81	ppb		96
11) Acrolein	3.129	56	6070	12.01	ppb	#	83
12) Acetone	3.268	43	14823	10.51	ppb	#	96
13) Iodomethane	3.396	142	66143	9.32	ppb		100
14) Allyl Chloride	3.621	76	29669	10.15	ppb	#	100
15) Methyl Acetate	3.607	43	27494	9.61	ppb		99
16) Carbon disulfide	3.474	76	134676	10.45	ppb		100
17) tert-Butyl Alcohol (TBA)	3.855	59	27221	53.81	ppb	#	1
18) Methylene Chloride	3.755	49	100711	11.11	ppb		94
19) Acrylonitrile	3.964	53	15287	11.98	ppb	#	45
20) trans-1,2-Dichloroethy...	4.044	61	100489	11.10	ppb	#	90
21) tert-Butyl Methyl Ethe...	4.033	73	164963	11.14	ppb	#	88
22) 1,1-Dichloroethane	4.470	63	125326	10.53	ppb		99
23) Vinyl Acetate	4.464	43	93996	12.49	ppb	#	100
24) Diisopropyl ether (DIPE)	4.512	45	260547	10.41	ppb	#	99
25) Ethyl-tert-Butyl ether...	4.865	59	246402	11.07	ppb	#	85
26) cis-1,2-Dichloroethylene	5.018	61	111518	10.37	ppb		99
27) 2-Butanone	4.993	72	5336	10.73	ppb	#	95
28) 2,2-Dichloropropane	5.029	77	49143	7.76	ppb		99
29) Tetrahydrofuran	5.263	42	14690	10.03	ppb	#	50
30) Bromochloromethane	5.249	49	58987	10.42	ppb		97
31) Chloroform	5.349	83	118348	10.85	ppb	#	84
32) 1,1,1-Trichloroethane	5.513	97	108325	10.74	ppb	#	82
33) Cyclohexane	5.597	56	115738	10.74	ppb		96
34) 1,1-Dichloropropylene	5.666	75	84177	10.26	ppb		95
36) Carbon Tetrachloride	5.672	117	88701	10.26	ppb	#	53
37) tert-Amyl alcohol (TAA)	5.844	59	51896	122.48	ppb	#	83
38) 1,2-Dichloroethane	5.897	62	89638	10.83	ppb		100
39) Benzene	5.850	78	250267	10.90	ppb	#	90
40) tert-Amyl methyl ether...	5.975	73	180627	11.09	ppb	#	100
42) Trichloroethylene	6.493	95	68566	10.06	ppb		92
43) Methyl Cyclohexane	6.735	83	91012	9.33	ppb	#	76
44) Methyl Methacrylate	6.774	69	35803	9.42	ppb	#	21
45) Dibromomethane	6.821	93	33141	10.08	ppb	#	71
46) Bromodichloromethane	6.993	83	89535	10.27	ppb		99
47) 1,2-Dichloropropane	6.735	63	72642	10.11	ppb	#	100
48) 1,4-Dioxane	6.799	88	4969	289.36	ppb	#	72
49) 2-nitropropane	7.171	43	16464	9.94	ppb	#	100
51) cis-1,3-Dichloropropene	7.416	75	95263	9.90	ppb		98
52) 4-Methyl-2-Pentanone	7.539	43	60946	10.85	ppb		96
54) Toluene	7.761	91	272031	10.25	ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619348.D
Acq On : 19 May 2020 5:19 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-SCV1
Misc : QBQV6051820A
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 11:54:28 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue May 19 10:50:37 2020
Response via : Initial Calibration

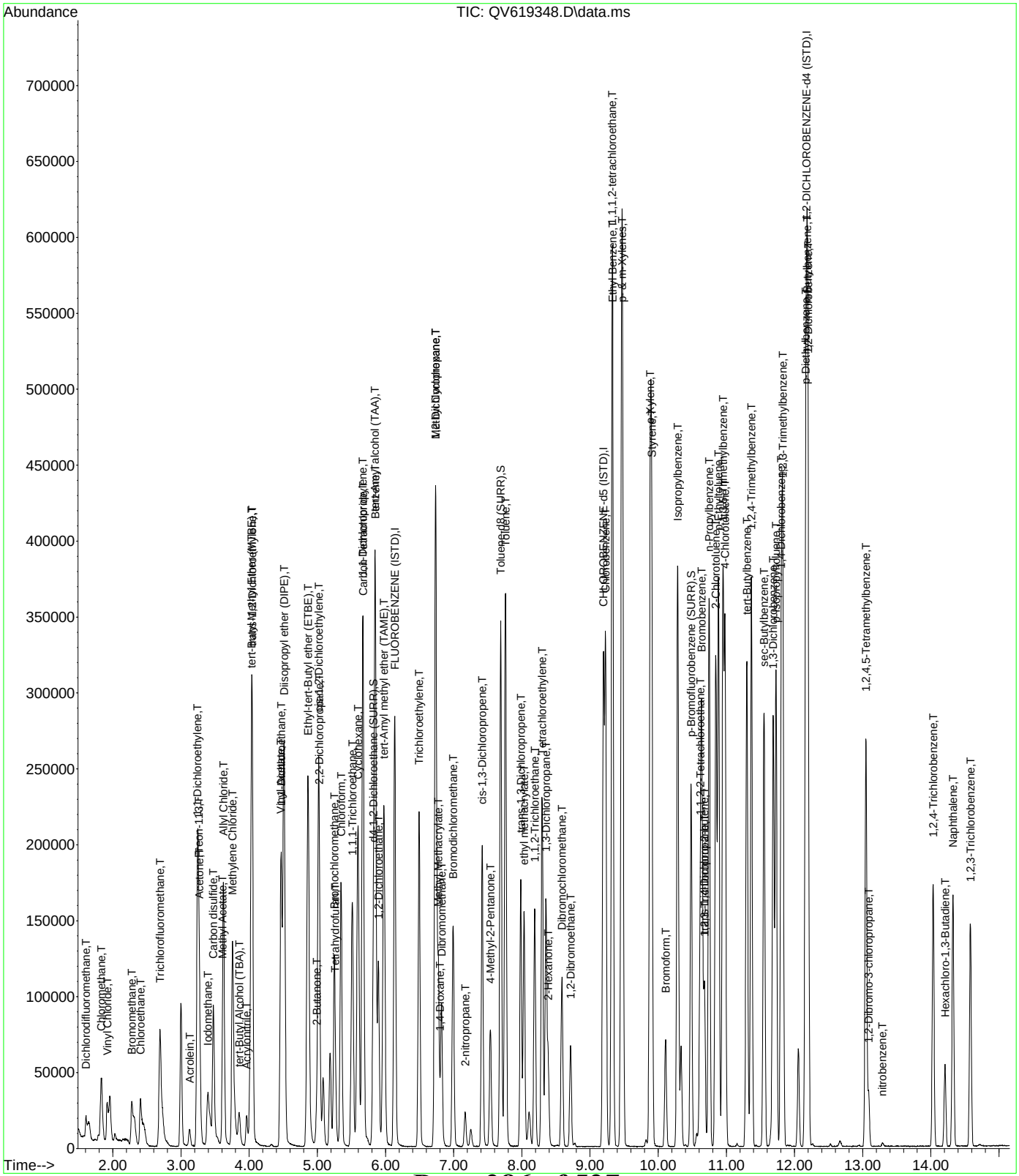
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
55) trans-1,3-Dichloropropene	7.984	75	80191	9.84 ppb		100
56) ethyl methacrylate	8.034	69	71939	10.77 ppb	#	100
57) 1,1,2-Trichloroethane	8.187	97	47569	10.48 ppb		99
58) 1,3-Dichloropropane	8.354	76	80115	10.52 ppb		96
59) Tetrachloroethylene	8.298	166	67171	9.62 ppb	#	100
60) 2-Hexanone	8.384	43	42051	11.27 ppb	#	19
61) Dibromochloromethane	8.588	129	59823	10.70 ppb		98
62) 1,2-Dibromoethane	8.716	107	47687	10.63 ppb		99
63) Chlorobenzene	9.228	112	171391	10.36 ppb		97
64) 1,1,1,2-tetrachloroethane	9.325	131	64124	10.22 ppb		98
65) Ethyl Benzene	9.330	91	299145	10.53 ppb		99
66) p- & m-Xylenes	9.470	91	462070	20.89 ppb		97
67) o-Xylene	9.881	91	237308	10.47 ppb		100
68) Styrene	9.906	104	186994	10.88 ppb		96
69) Bromoform	10.110	173	34764	10.55 ppb		99
71) p-Ethyltoluene	10.883	105	263146	11.26 ppb	#	81
72) Isopropylbenzene	10.288	105	275201	9.61 ppb		97
74) 1,1,2,2-Tetrachloroethane	10.616	83	57016	10.68 ppb	#	100
75) Bromobenzene	10.635	77	118373	9.63 ppb		90
76) trans-1,4-Dichloro-2-b...	10.677	75	64382	9.89 ppb	#	64
77) 1,2,3-Trichloropropane	10.680	110	16077	10.63 ppb	#	1
78) n-Propylbenzene	10.747	91	312260	9.68 ppb		99
79) 2-Chlorotoluene	10.844	91	221533	10.00 ppb		99
80) 4-Chlorotoluene	10.980	91	225472	9.84 ppb		97
81) 1,3,5-Trimethylbenzene	10.950	105	219586	10.01 ppb	#	65
82) tert-Butylbenzene	11.300	119	181121	7.88 ppb		96
83) 1,2,4-Trimethylbenzene	11.367	105	220149	10.05 ppb		99
84) sec-Butylbenzene	11.553	105	229152	10.02 ppb		98
85) 1,3-Dichlorobenzene	11.687	146	124091	9.75 ppb		97
86) p-Isopropyltoluene	11.729	119	208786	9.88 ppb		98
87) 1,4-Dichlorobenzene	11.804	146	125685	9.82 ppb		96
88) 1,2,3-Trimethylbenzene	11.829	105	225521	11.17 ppb		99
89) p-Diethylbenzene	12.163	105	102414	10.97 ppb	#	81
90) 1,2-Dichlorobenzene	12.199	146	116127	9.97 ppb	#	73
91) n-Butylbenzene	12.188	91	186258	9.69 ppb	#	79
93) 1,2-Dibromo-3-chloropr...	13.089	75	10221	11.12 ppb	#	84
94) 1,2,4,5-Tetramethylben...	13.048	119	169078	9.67 ppb		98
95) nitrobenzene	13.287	77	1121	11.19 ppb	#	100
96) 1,2,4-Trichlorobenzene	14.035	180	57797	9.61 ppb		96
97) Hexachloro-1,3-Butadiene	14.208	225	12045	9.31 ppb		98
98) Naphthalene	14.325	128	142400	9.94 ppb		99
99) 1,2,3-Trichlorobenzene	14.583	180	49084	9.66 ppb		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619348.D
Acq On : 19 May 2020 5:19 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-SCV1
Misc : QBQV6051820A
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 11:54:28 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue May 19 10:50:37 2020
Response via : Initial Calibration



FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Instrument ID:	QVOA6	Calibration:	YF00005
Lab File ID:	QV619422.D	Calibration Date:	05/18/20 12:40
Sequence:	Y0F0821	Injection Date:	06/05/20
Lab Sample ID:	Y0F0821-CCV1	Injection Time:	11:08

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	10.0	9.33	0.3660347	0.3414849		-6.7	20	
1,1,1-Trichloroethane	A	10.0	9.27	2.072395	1.921492	0.1	-7.3	20	
1,1,2,2-Tetrachloroethane	A	10.0	9.22	0.7160621	0.6601007	0.3	-7.8	20	
1,1,2-Trichloro-1,2,2-trifluoroeth ane (Freon 113)	A	10.0	8.97	1.005307	0.9018756	0.1	-10.3	20	
1,1,2-Trichloroethane	A	10.0	9.48	0.2648918	0.2511917	0.1	-5.2	20	
1,1-Dichloroethane	A	10.0	9.96	2.444742	2.434494	0.2	-0.4	20	
1,1-Dichloroethylene	A	10.0	9.15	1.921943	1.758392	0.1	-8.5	20	
1,2,3-Trichlorobenzene	A	10.0	9.27	0.6813134	0.6316386		-7.3	20	
1,2,3-Trichloropropane	A	10.0	9.45	0.202731	0.1915674		-5.5	20	
1,2,4-Trichlorobenzene	A	10.0	9.49	0.8065567	0.7655505	0.2	-5.1	20	
1,2,4-Trimethylbenzene	A	10.0	9.50	2.936586	2.788564		-5.0	20	
1,2-Dibromo-3-chloropropane	A	10.0	9.07	0.1232312	0.1118005	0.05	-9.3	20	
1,2-Dibromoethane	A	10.0	9.58	0.2619023	0.2509866	0.1	-4.2	20	
1,2-Dichlorobenzene	A	10.0	9.81	1.561109	1.531113	0.4	-1.9	20	
1,2-Dichloroethane	A	10.0	9.68	1.699972	1.645855	0.1	-3.2	20	
1,2-Dichloropropane	A	10.0	9.13	0.4191104	0.38275	0.1	-8.7	20	
1,3,5-Trimethylbenzene	A	10.0	9.51	2.94038	2.795548		-4.9	20	
1,3-Dichlorobenzene	A	10.0	9.66	1.707389	1.648923	0.6	-3.4	20	
1,4-Dichlorobenzene	A	10.0	9.78	1.715979	1.678202	0.5	-2.2	20	
1,4-Dioxane	A	200	244	1.002144E-03	1.224891E-03		22.2	20	*
2-Butanone	A	10.0	9.36	0.0971204	9.560222E-02	0.1	-1.6	20	
2-Hexanone	A	10.0	9.44	0.2176914	0.2054675	0.1	-5.6	20	
4-Methyl-2-pentanone	A	10.0	8.92	0.3277815	0.2922625	0.1	-10.8	20	
Acetone	L	10.0	9.19	0.3132386	0.266329	0.1	-8.1	20	
Acrolein	A	10.0	12.6	0.1038422	0.1305923		25.8	20	*
Acrylonitrile	A	10.0	10.6	0.2619943	0.2785195		6.3	20	
Benzene	A	10.0	9.85	4.714945	4.646236	0.5	-1.5	20	
Bromochloromethane	A	10.0	9.36	1.162166	1.087876		-6.4	20	
Bromodichloromethane	A	10.0	8.72	0.508692	0.4438056	0.2	-12.8	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Instrument ID:	QVOA6	Calibration:	YF00005
Lab File ID:	QV619422.D	Calibration Date:	05/18/20 12:40
Sequence:	Y0F0821	Injection Date:	06/05/20
Lab Sample ID:	Y0F0821-CCV1	Injection Time:	11:08

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	8.06	0.1922259	0.1550089	0.1	-19.4	20	
Bromomethane	L	10.0	1.20	0.5957972	9.340032E-02	0.1	-88.0	20	*
Carbon disulfide	A	10.0	8.35	2.646507	2.210141	0.1	-16.5	20	
Carbon tetrachloride	A	10.0	8.76	1.775226	1.555197	0.1	-12.4	20	
Chlorobenzene	A	10.0	9.73	0.9658196	0.9401644	0.5	-2.7	20	
Chloroethane	A	10.0	9.25	0.7977304	0.7378546	0.1	-7.5	20	
Chloroform	A	10.0	9.95	2.240544	2.229818	0.2	-0.5	20	
Chloromethane	A	10.0	8.73	1.390685	1.213384	0.1	-12.7	20	
cis-1,2-Dichloroethylene	A	10.0	10.4	2.208792	2.307164	0.1	4.5	20	
cis-1,3-Dichloropropylene	A	10.0	9.14	0.561764	0.5132881	0.2	-8.6	20	
Cyclohexane	A	10.0	9.32	2.213359	2.063815	0.1	-6.8	20	
Dibromochloromethane	A	10.0	8.83	0.3263194	0.2882893	0.1	-11.7	20	
Dibromomethane	A	10.0	9.13	0.1919129	0.1752312		-8.7	20	
Dichlorodifluoromethane	A	10.0	5.51	0.807931	0.445343	0.1	-44.9	20	*
Ethyl Benzene	A	10.0	9.64	1.657542	1.597897	0.1	-3.6	20	
Hexachlorobutadiene	A	10.0	10.4	0.1734989	0.1807677		4.2	20	
Isopropylbenzene	A	10.0	9.30	3.837779	3.567852	0.1	-7.0	20	
Methyl acetate	A	10.0	11.1	0.587381	0.6495586	0.1	10.6	20	
Methyl tert-butyl ether (MTBE)	A	10.0	9.82	3.042402	2.98817	0.1	-1.8	20	
Methylcyclohexane	A	10.0	8.81	0.5691352	0.5013901	0.1	-11.9	20	
Methylene chloride	A	10.0	10.2	1.861669	1.90646	0.1	2.4	20	
n-Butylbenzene	A	10.0	9.63	2.577393	2.482478		-3.7	20	
n-Propylbenzene	A	10.0	9.39	4.324929	4.05952		-6.1	20	
o-Xylene	A	10.0	9.70	1.322213	1.283026	0.3	-3.0	20	
p- & m- Xylenes	A	20.0	19.5	1.290783	1.25672	0.1	-2.6	20	
p-Isopropyltoluene	A	10.0	9.76	2.834412	2.765221		-2.4	20	
sec-Butylbenzene	A	10.0	9.60	3.066893	2.94466		-4.0	20	
Styrene	A	10.0	9.82	1.002567	0.9850087	0.3	-1.8	20	
tert-Butyl alcohol (TBA)	A	10.0	11.5	0.1038913	0.1192826		14.8	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Instrument ID:	QVOA6	Calibration:	YF00005
Lab File ID:	QV619422.D	Calibration Date:	05/18/20 12:40
Sequence:	Y0F0821	Injection Date:	06/05/20
Lab Sample ID:	Y0F0821-CCV1	Injection Time:	11:08

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	10.0	9.39	3.080197	2.893758		-6.1	20	
Tetrachloroethylene	A	10.0	10.0	0.4075414	0.4083599	0.2	0.2	20	
Toluene	A	10.0	9.12	1.549267	1.413197	0.4	-8.8	20	
trans-1,2-Dichloroethylene	A	10.0	9.38	1.860118	1.745701	0.1	-6.2	20	
trans-1,3-Dichloropropylene	A	10.0	9.12	0.4756688	0.4336081	0.1	-8.8	20	
trans-1,4-dichloro-2-butene	A	10.0	7.88	0.8727739	0.6876364		-21.2	20	*
Trichloroethylene	A	10.0	9.06	0.3977452	0.3604224	0.2	-9.4	20	
Trichlorofluoromethane	A	10.0	8.92	1.614859	1.440559	0.1	-10.8	20	
Vinyl Chloride	A	10.0	9.33	1.211735	1.131073	0.1	-6.7	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060520A\
Data File : QV619422.D
Acq On : 5 Jun 2020 11:08 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CCV1
Misc : QBQV6060520A
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 08 13:43:00 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue May 19 10:50:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.131	70	49957	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	9.186	117	185241	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	12.160	152	82039	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.817	65	68482	9.93	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 99.30%				
53) Toluene-d8 (SURR)	7.681	98	251122	9.71	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 97.10%				
73) p-Bromofluorobenzene (...	10.471	95	86998	9.38	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 93.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.602	85	22248m	5.51	ppb		
3) Chloromethane	1.791	50	60617	8.73	ppb	#	43
4) Vinyl Chloride	1.916	62	56505	9.33	ppb	#	43
5) Bromomethane	2.275	94	4666m	1.20	ppb		
6) Chloroethane	2.406	64	36861	9.25	ppb		91
7) Trichlorofluoromethane	2.695	101	71966	8.92	ppb		98
8) Ethanol	2.876	45	12136	540.00	ppb	#	1
9) Freon-113	3.271	101	45055	8.97	ppb		99
10) 1,1-Dichloroethylene	3.246	61	87844	9.15	ppb		97
11) Acrolein	3.135	56	6524	12.58	ppb	#	73
12) Acetone	3.268	43	13305	9.19	ppb	#	96
13) Iodomethane	3.396	142	5186	0.71	ppb		100
14) Allyl Chloride	3.627	76	28745	9.58	ppb	#	100
15) Methyl Acetate	3.613	43	32450	11.06	ppb		99
16) Carbon disulfide	3.474	76	110412	8.35	ppb		100
17) tert-Butyl Alcohol (TBA)	3.861	59	5959	11.48	ppb	#	1
18) Methylene Chloride	3.761	49	95241	10.24	ppb		95
19) Acrylonitrile	3.964	53	13914	10.63	ppb	#	70
20) trans-1,2-Dichloroethy...	4.047	61	87210	9.38	ppb		100
21) tert-Butyl Methyl Ethe...	4.036	73	149280	9.82	ppb	#	88
22) 1,1-Dichloroethane	4.467	63	121620	9.96	ppb		100
23) Vinyl Acetate	4.467	43	88802	11.50	ppb	#	100
24) Diisopropyl ether (DIPE)	4.512	45	255653	9.96	ppb	#	99
25) Ethyl-tert-Butyl ether...	4.862	59	226147	9.90	ppb	#	100
26) cis-1,2-Dichloroethylene	5.018	61	115259	10.45	ppb		99
27) 2-Butanone	4.990	72	4776	9.36	ppb	#	95
28) 2,2-Dichloropropane	5.026	77	91475	14.08	ppb		100
29) Tetrahydrofuran	5.263	42	14440	9.61	ppb	#	54
30) Bromochloromethane	5.246	49	54347	9.36	ppb		96
31) Chloroform	5.346	83	111395	9.95	ppb	#	84
32) 1,1,1-Trichloroethane	5.511	97	95992	9.27	ppb	#	75
33) Cyclohexane	5.605	56	103102m	9.32	ppb		
34) 1,1-Dichloropropylene	5.664	75	79782	9.48	ppb		97
36) Carbon Tetrachloride	5.666	117	77693	8.76	ppb	#	52
37) tert-Amyl alcohol (TAA)	5.839	59	46619	107.23	ppb		99
38) 1,2-Dichloroethane	5.892	62	82222	9.68	ppb	#	87
39) Benzene	5.844	78	232112	9.85	ppb	#	89
40) tert-Amyl methyl ether...	5.975	73	165855	9.93	ppb	#	100
42) Trichloroethylene	6.487	95	66765	9.06	ppb		95
43) Methyl Cyclohexane	6.729	83	92878	8.81	ppb	#	75
44) Methyl Methacrylate	6.771	69	32789	7.98	ppb	#	76
45) Dibromomethane	6.815	93	32460	9.13	ppb		98
46) Bromodichloromethane	6.985	83	82211	8.72	ppb		99
47) 1,2-Dichloropropane	6.732	63	70901	9.13	ppb	#	100
48) 1,4-Dioxane	6.790	88	4538	244.45	ppb	#	86
49) 2-nitropropane	7.160	43	12394	6.92	ppb	#	100
51) cis-1,3-Dichloropropene	7.411	75	95082	9.14	ppb		97
52) 4-Methyl-2-Pentanone	7.533	43	54139	8.92	ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060520A\
Data File : QV619422.D
Acq On : 5 Jun 2020 11:08 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CCV1
Misc : QBQV6060520A
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 08 13:43:00 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue May 19 10:50:37 2020
Response via : Initial Calibration

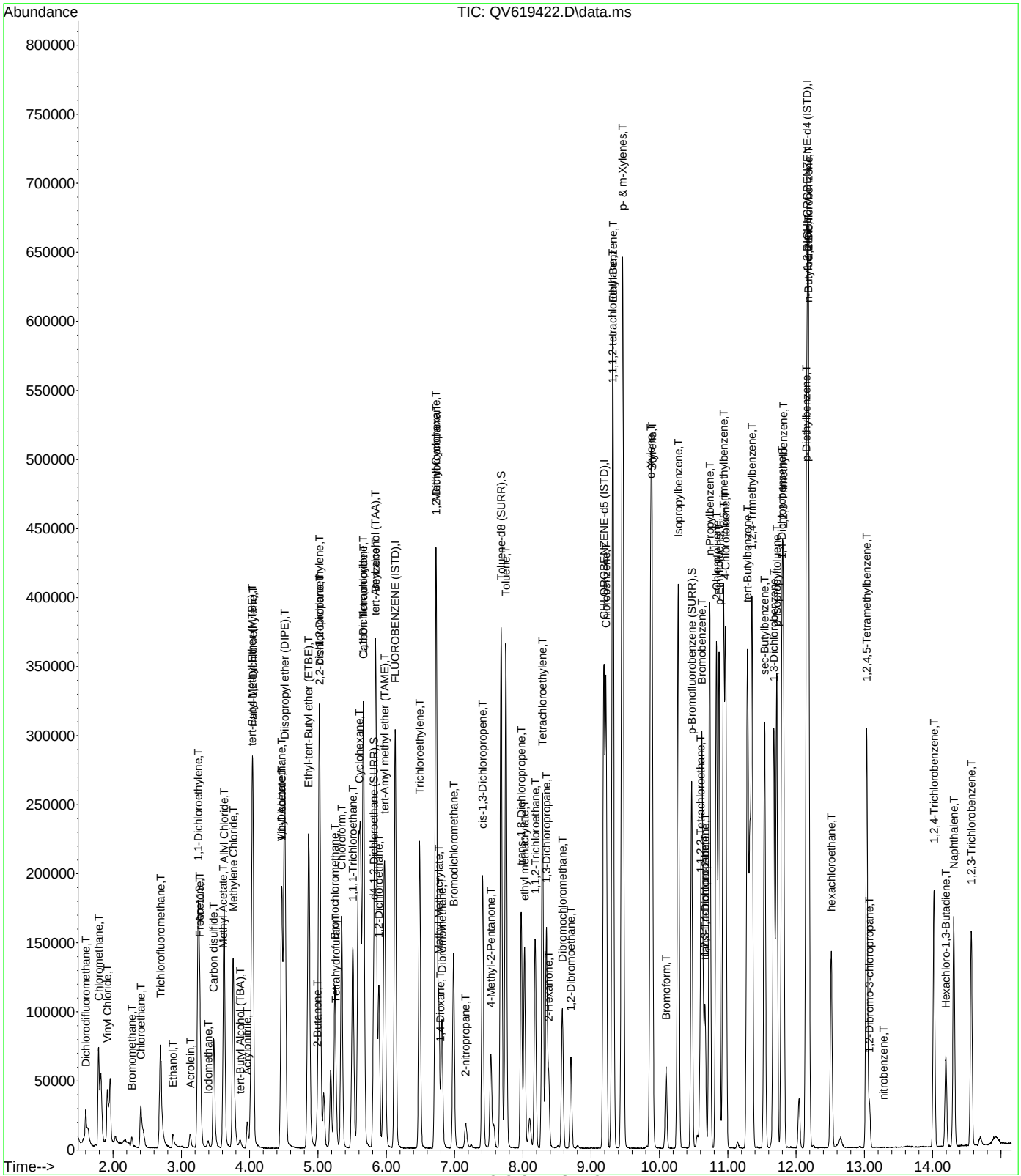
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Toluene	7.750	91	261782	9.12	ppb		99
55) trans-1,3-Dichloropropene	7.976	75	80322	9.12	ppb		100
56) ethyl methacrylate	8.026	69	65365	9.05	ppb	#	100
57) 1,1,2-Trichloroethane	8.182	97	46531	9.48	ppb		99
58) 1,3-Dichloropropane	8.343	76	77477	9.41	ppb		97
59) Tetrachloroethylene	8.287	166	75645	10.02	ppb	#	100
60) 2-Hexanone	8.376	43	38061	9.44	ppb	#	15
61) Dibromochloromethane	8.579	129	53403	8.83	ppb		97
62) 1,2-Dibromoethane	8.702	107	46493	9.58	ppb		99
63) Chlorobenzene	9.217	112	174157	9.73	ppb		98
64) 1,1,1,2-tetrachloroethane	9.311	131	63257	9.33	ppb		98
65) Ethyl Benzene	9.319	91	295996	9.64	ppb		100
66) p- & m-Xylenes	9.461	91	465592	19.47	ppb		98
67) o-Xylene	9.870	91	237669	9.70	ppb		100
68) Styrene	9.893	104	182464	9.82	ppb		96
69) Bromoform	10.096	173	28714	8.06	ppb	#	80
71) p-Ethyltoluene	10.872	105	247943	9.64	ppb	#	67
72) Isopropylbenzene	10.274	105	292703	9.30	ppb		97
74) 1,1,2,2-Tetrachloroethane	10.602	83	54154	9.22	ppb	#	69
75) Bromobenzene	10.622	77	113898	8.42	ppb		94
76) trans-1,4-Dichloro-2-b...	10.669	75	56413	7.88	ppb	#	41
77) 1,2,3-Trichloropropane	10.666	110	15716	9.45	ppb	#	1
78) n-Propylbenzene	10.736	91	333039	9.39	ppb		98
79) 2-Chlorotoluene	10.836	91	227375	9.33	ppb		100
80) 4-Chlorotoluene	10.967	91	236361	9.38	ppb		97
81) 1,3,5-Trimethylbenzene	10.939	105	229344	9.51	ppb	#	64
82) tert-Butylbenzene	11.289	119	237401	9.39	ppb		92
83) 1,2,4-Trimethylbenzene	11.353	105	228771	9.50	ppb		99
84) sec-Butylbenzene	11.540	105	241577	9.60	ppb		98
85) 1,3-Dichlorobenzene	11.673	146	135276	9.66	ppb		97
86) p-Isopropyltoluene	11.718	119	226856	9.76	ppb		98
87) 1,4-Dichlorobenzene	11.793	146	137678	9.78	ppb		98
88) 1,2,3-Trimethylbenzene	11.812	105	210636	9.49	ppb		99
89) p-Diethylbenzene	12.149	105	98911	9.63	ppb	#	97
90) 1,2-Dichlorobenzene	12.182	146	125611	9.81	ppb		99
91) n-Butylbenzene	12.177	91	203660	9.63	ppb		95
92) hexachloroethane	12.514	117	27737	6.68	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	13.073	75	9172	9.07	ppb		86
94) 1,2,4,5-Tetramethylben...	13.034	119	183240	9.53	ppb		98
95) nitrobenzene	13.279	77	65m	0.64	ppb		
96) 1,2,4-Trichlorobenzene	14.021	180	62805	9.49	ppb		97
97) Hexachloro-1,3-Butadiene	14.194	225	14830	10.42	ppb		99
98) Naphthalene	14.308	128	141140	8.96	ppb		99
99) 1,2,3-Trichlorobenzene	14.564	180	51819	9.27	ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060520A\
Data File : QV619422.D
Acq On : 5 Jun 2020 11:08 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CCV1
Misc : QBQV6060520A
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 08 13:43:00 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue May 19 10:50:37 2020
Response via : Initial Calibration



FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Instrument ID:	QVOA9	Calibration:	YF00003
Lab File ID:	QV912163.D	Calibration Date:	05/20/20 11:33
Sequence:	Y0F0919	Injection Date:	06/09/20
Lab Sample ID:	Y0F0919-CCV1	Injection Time:	01:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	10.0	9.46	0.2604061	0.2463065		-5.4	20	
1,1,1-Trichloroethane	A	10.0	8.85	2.018304	1.78596	0.1	-11.5	20	
1,1,2,2-Tetrachloroethane	A	10.0	9.68	0.4474473	0.4330627	0.3	-3.2	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	8.14	0.8007992	0.6516782	0.1	-18.6	20	
1,1,2-Trichloroethane	A	10.0	10.1	0.1733998	0.1757086	0.1	1.3	20	
1,1-Dichloroethane	A	10.0	8.96	1.783753	1.599098	0.2	-10.4	20	
1,1-Dichloroethylene	A	10.0	8.17	1.357738	1.108686	0.1	-18.3	20	
1,2,3-Trichlorobenzene	A	10.0	8.48	0.5165657	0.4380002		-15.2	20	
1,2,3-Trichloropropane	A	10.0	10.3	0.1444872	0.1488978		3.1	20	
1,2,4-Trichlorobenzene	A	10.0	9.10	0.6943587	0.6320711	0.2	-9.0	20	
1,2,4-Trimethylbenzene	A	10.0	9.19	2.942568	2.705452		-8.1	20	
1,2-Dibromo-3-chloropropane	A	10.0	9.38	0.1041967	0.0977585	0.05	-6.2	20	
1,2-Dibromoethane	A	10.0	10.1	0.1644694	0.1658264	0.1	0.8	20	
1,2-Dichlorobenzene	A	10.0	9.62	1.115188	1.072955	0.4	-3.8	20	
1,2-Dichloroethane	A	10.0	9.69	1.394721	1.351342	0.1	-3.1	20	
1,2-Dichloropropane	A	10.0	8.99	0.2427318	0.218097	0.1	-10.1	20	
1,3,5-Trimethylbenzene	A	10.0	9.06	2.93724	2.662204		-9.4	20	
1,3-Dichlorobenzene	A	10.0	9.30	1.322211	1.229195	0.6	-7.0	20	
1,4-Dichlorobenzene	A	10.0	9.38	1.3032	1.222655	0.5	-6.2	20	
1,4-Dioxane	Q	200	307	7.587743E-04	1.175182E-03		53.4	20	*
2-Butanone	A	10.0	7.37	6.551327E-02	4.830317E-02	0.1	-26.3	20	*
2-Hexanone	A	10.0	10.3	8.405139E-02	8.685007E-02	0.1	3.3	20	
4-Methyl-2-pentanone	A	10.0	10.4	0.1204512	0.1246912	0.1	3.5	20	
Acetone	A	10.0	10.1	0.1382063	0.1392569	0.1	0.8	20	
Acrolein	Q	10.0	8.53	0.1092779	4.777107E-02		-14.7	20	
Acrylonitrile	A	10.0	11.2	2.592207E-02	2.907865E-02		12.2	20	
Benzene	A	10.0	8.92	3.93241	3.509243	0.5	-10.8	20	
Bromochloromethane	A	10.0	9.27	0.6456547	0.5985101		-7.3	20	
Bromodichloromethane	A	10.0	9.32	0.3771868	0.3514923	0.2	-6.8	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Instrument ID:	QVOA9	Calibration:	YF00003
Lab File ID:	QV912163.D	Calibration Date:	05/20/20 11:33
Sequence:	Y0F0919	Injection Date:	06/09/20
Lab Sample ID:	Y0F0919-CCV1	Injection Time:	01:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	9.46	0.1159769	0.1097348	0.1	-5.4	20	
Bromomethane	Q	10.0	6.24	0.1655815	5.940806E-02	0.1	-37.6	20	*
Carbon disulfide	A	10.0	8.21	2.129023	1.747172	0.1	-17.9	20	
Carbon tetrachloride	A	10.0	8.48	1.695313	1.438239	0.1	-15.2	20	
Chlorobenzene	A	10.0	9.43	0.7139615	0.6735868	0.5	-5.7	20	
Chloroethane	A	10.0	8.55	0.3868634	0.3307143	0.1	-14.5	20	
Chloroform	A	10.0	8.91	2.040337	1.81821	0.2	-10.9	20	
Chloromethane	Q	10.0	7.29	0.563578	0.4005224	0.1	-27.1	20	*
cis-1,2-Dichloroethylene	A	10.0	8.00	1.625764	1.301269	0.1	-20.0	20	
cis-1,3-Dichloropropylene	A	10.0	7.99	0.4174371	0.3335897	0.2	-20.1	20	*
Cyclohexane	A	10.0	8.58	3.543637	3.040059	0.1	-14.2	20	
Dibromochloromethane	A	10.0	9.71	0.2169053	0.2106546	0.1	-2.9	20	
Dibromomethane	A	10.0	9.84	0.1217311	0.1198421		-1.6	20	
Dichlorodifluoromethane	A	10.0	8.17	0.8030227	0.6559902	0.1	-18.3	20	
Ethyl Benzene	A	10.0	9.31	1.337167	1.244886	0.1	-6.9	20	
Hexachlorobutadiene	A	10.0	8.10	0.4201723	0.3401549		-19.0	20	
Isopropylbenzene	A	10.0	8.90	3.517641	3.1319	0.1	-11.0	20	
Methyl acetate	A	10.0	7.78	0.2652706	0.206363	0.1	-22.2	20	*
Methyl tert-butyl ether (MTBE)	A	10.0	9.71	2.482477	2.41039	0.1	-2.9	20	
Methylcyclohexane	A	10.0	8.68	0.4155712	0.3605459	0.1	-13.2	20	
Methylene chloride	A	10.0	8.20	1.115311	0.9150237	0.1	-18.0	20	
n-Butylbenzene	A	10.0	8.93	3.284727	2.933366		-10.7	20	
n-Propylbenzene	A	10.0	9.00	4.086885	3.678752		-10.0	20	
o-Xylene	A	10.0	9.57	1.106252	1.058265	0.3	-4.3	20	
p- & m- Xylenes	A	20.0	18.9	1.075415	1.015388	0.1	-5.6	20	
p-Isopropyltoluene	A	10.0	9.26	2.948313	2.728945		-7.4	20	
sec-Butylbenzene	A	10.0	9.15	3.319984	3.037046		-8.5	20	
Styrene	A	10.0	9.32	0.7788095	0.7261728	0.3	-6.8	20	
tert-Butyl alcohol (TBA)	L	10.0	12.7	6.902885E-02	8.240562E-02		27.2	20	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Instrument ID:	QVOA9	Calibration:	YF00003
Lab File ID:	QV912163.D	Calibration Date:	05/20/20 11:33
Sequence:	Y0F0919	Injection Date:	06/09/20
Lab Sample ID:	Y0F0919-CCV1	Injection Time:	01:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	10.0	9.10	2.785872	2.534598		-9.0	20	
Tetrachloroethylene	A	10.0	9.38	0.2583843	0.24224	0.2	-6.2	20	
Toluene	A	10.0	8.99	1.118919	1.006228	0.4	-10.1	20	
trans-1,2-Dichloroethylene	A	10.0	8.20	1.284997	1.054142	0.1	-18.0	20	
trans-1,3-Dichloropropylene	A	10.0	8.17	0.3659646	0.2991091	0.1	-18.3	20	
trans-1,4-dichloro-2-butene	A	10.0	9.60	0.35832	0.3439438		-4.0	20	
Trichloroethylene	A	10.0	9.06	0.2754466	0.249529	0.2	-9.4	20	
Trichlorofluoromethane	A	10.0	9.74	1.408533	1.371686	0.1	-2.6	20	
Vinyl Chloride	A	10.0	6.77	0.7654148	0.5179634	0.1	-32.3	20	*

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912163.D
Acq On : 9 Jun 2020 1:26 am
Operator : TMP
Sample : SEQ-CCV1
Misc : QBQV9060820B
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 09 12:50:27 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.740	70	144711	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.789	117	586505	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.779	152	242025	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.424	65	209763	10.61	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 106.10%				
51) Toluene-d8 (SURR)	7.283	98	740750	9.75	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 97.50%				
70) p-Bromofluorobenzene (...	10.079	95	326474	9.65	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 96.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.544	85	94929	8.17	ppb	#	1
3) Chloromethane	1.724	50	57960	7.29	ppb	#	88
4) Vinyl Chloride	1.817	62	74955	6.77	ppb	#	98
5) Bromomethane	2.131	94	8597m	6.24	ppb		
6) Chloroethane	2.242	64	47858	8.55	ppb	#	19
7) Trichlorofluoromethane	2.492	101	198498	9.74	ppb	#	20
8) Ethanol	2.619	45	16848m	541.69	ppb		
9) Freon-113	3.003	101	94305	8.14	ppb	#	1
10) 1,1-Dichloroethylene	2.988	61	160439	8.17	ppb	#	84
11) Acrolein	2.866	56	6913	8.53	ppb	#	1
12) Acetone	3.000	43	20152	10.08	ppb	#	1
13) Iodomethane	3.128	142	11071	0.86	ppb	#	72
14) Methyl Acetate	3.308	43	29863	7.78	ppb	#	1
15) Carbon disulfide	3.218	76	252835	8.21	ppb	#	20
16) tert-Butyl Alcohol (TBA)	3.532	59	11925m	12.72	ppb		
17) Methylene Chloride	3.445	49	132414	8.20	ppb	#	74
18) Acrylonitrile	3.721	53	4208m	11.22	ppb		
19) trans-1,2-Dichloroethy...	3.727	61	152546	8.20	ppb	#	81
20) tert-Butyl Methyl Ethe...	3.718	73	348810	9.71	ppb	#	95
21) 1,1-Dichloroethane	4.122	63	231407	8.96	ppb	#	99
22) Vinyl Acetate	4.110	43	76355	8.64	ppb	#	1
23) Diisopropyl ether (DIPE)	4.165	45	365170	8.93	ppb	#	53
24) Ethyl-tert-Butyl ether...	4.505	59	442776	9.17	ppb	#	99
25) cis-1,2-Dichloroethylene	4.648	61	188308	8.00	ppb	#	83
26) 2-Butanone	4.604	72	6990	7.37	ppb	#	1
27) 2,2-Dichloropropane	4.659	77	71779	3.09	ppb	#	87
28) Tetrahydrofuran	4.895	42	16099m	9.00	ppb		
29) Bromochloromethane	4.869	49	86611	9.27	ppb	#	47
30) Chloroform	4.956	83	263115	8.91	ppb	#	85
31) 1,1,1-Trichloroethane	5.139	97	258448	8.85	ppb	#	26
32) Cyclohexane	5.241	56	439930	8.58	ppb	#	83
33) 1,1-Dichloropropylene	5.287	75	182346	8.68	ppb	#	69
35) Carbon Tetrachloride	5.299	117	208129	8.48	ppb	#	100
36) tert-Amyl alcohol (TAA)	5.432	59	76239	102.58	ppb	#	1
37) 1,2-Dichloroethane	5.496	62	195554	9.69	ppb	#	98
38) Benzene	5.464	78	507826	8.92	ppb	#	94
39) tert-Amyl methyl ether...	5.592	73	378351	9.47	ppb	#	1
41) Trichloroethylene	6.098	95	146350	9.06	ppb	#	72
42) Methyl Cyclohexane	6.348	83	211462	8.68	ppb	#	50
43) Methyl Methacrylate	6.359	69	102359	8.69	ppb	#	98
44) Dibromomethane	6.412	93	70288	9.84	ppb	#	49
45) Bromodichloromethane	6.577	83	206152	9.32	ppb	#	96
46) 1,2-Dichloropropane	6.327	63	127915	8.99	ppb	#	88
47) 1,4-Dioxane	6.394	88	13785m	306.76	ppb		
49) cis-1,3-Dichloropropene	7.007	75	195652	7.99	ppb	#	59
50) 4-Methyl-2-Pentanone	7.115	43	73132	10.35	ppb	#	53
52) Toluene	7.353	91	590158	8.99	ppb		99

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912163.D
Acq On : 9 Jun 2020 1:26 am
Operator : TMP
Sample : SEQ-CCV1
Misc : QBQV9060820B
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 09 12:50:27 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

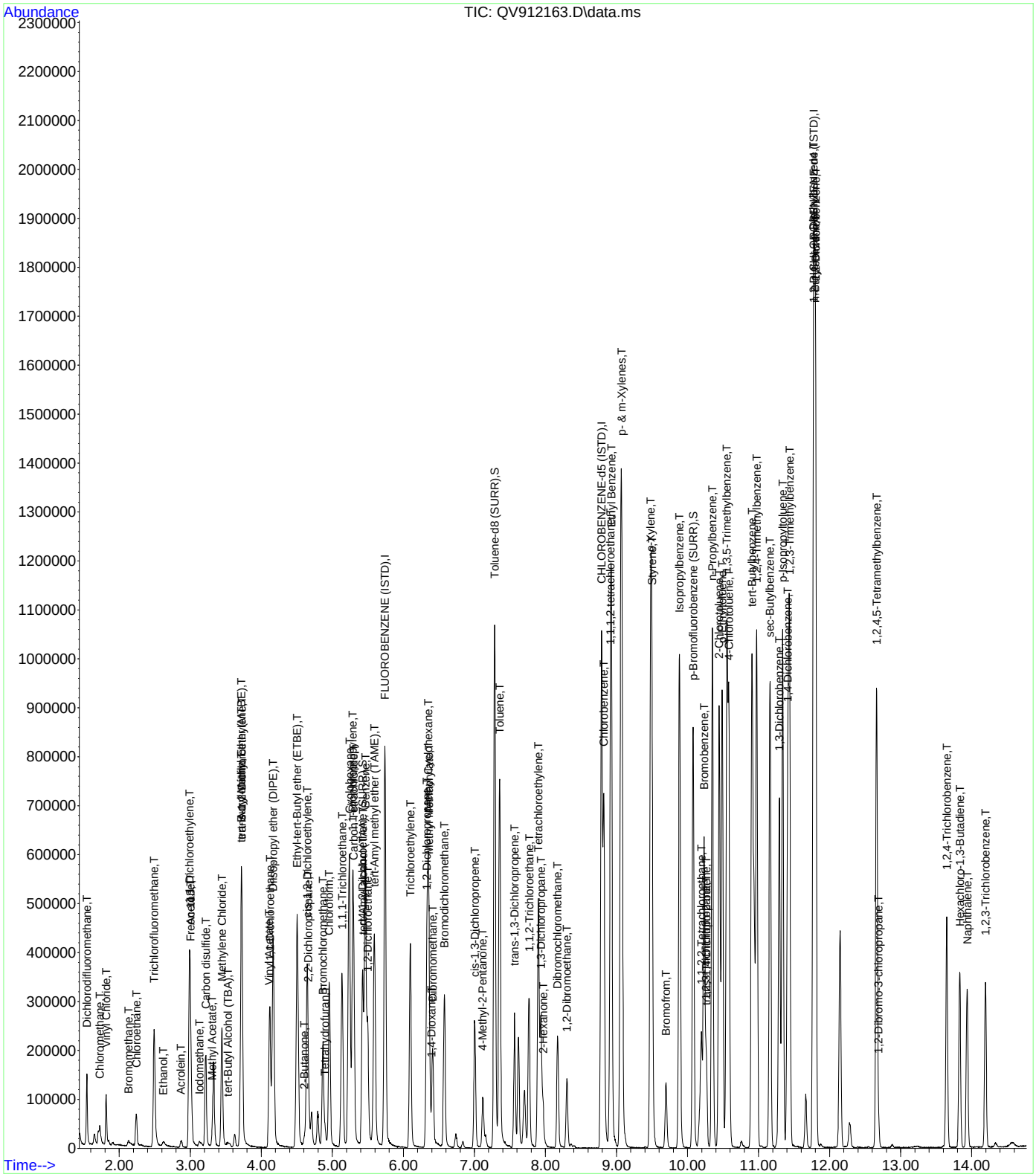
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	7.565	75	175429	8.17	ppb	#	99
54) 1,1,2-Trichloroethane	7.772	97	103054	10.13	ppb	#	1
55) 1,3-Dichloropropane	7.937	76	182091	9.97	ppb	#	70
56) Tetrachloroethylene	7.900	166	142075	9.38	ppb	#	100
57) 2-Hexanone	7.966	43	50938	10.33	ppb	#	1
58) Dibromochloromethane	8.170	129	123550	9.71	ppb	#	85
59) 1,2-Dibromoethane	8.301	107	97258	10.08	ppb		90
60) Chlorobenzene	8.821	112	395062	9.43	ppb	#	87
61) 1,1,1,2-tetrachloroethane	8.914	131	144460	9.46	ppb	#	45
62) Ethyl Benzene	8.928	91	730132	9.31	ppb		96
63) p- & m-Xylenes	9.071	91	1191060	18.88	ppb		92
64) o-Xylene	9.480	91	620678	9.57	ppb		96
65) Styrene	9.498	104	425904	9.32	ppb	#	82
66) Bromofrom	9.698	173	64360	9.46	ppb	#	95
68) p-Ethyltoluene	10.489	105	648004	8.91	ppb	#	97
69) Isopropylbenzene	9.884	105	757998	8.90	ppb	#	90
71) 1,1,2,2-Tetrachloroethane	10.195	83	104812	9.68	ppb	#	65
72) Bromobenzene	10.233	77	305230	9.18	ppb	#	78
73) trans-1,4-Dichloro-2-b...	10.265	75	83243m	9.60	ppb		
74) 1,2,3-Trichloropropane	10.262	110	36037	10.31	ppb	#	1
75) n-Propylbenzene	10.349	91	890350	9.00	ppb	#	90
76) 2-Chlorotoluene	10.445	91	554030	9.02	ppb		98
77) 4-Chlorotoluene	10.582	91	647539	9.09	ppb		95
78) 1,3,5-Trimethylbenzene	10.553	105	644320	9.06	ppb	#	59
79) tert-Butylbenzene	10.907	119	613436	9.10	ppb		95
80) 1,2,4-Trimethylbenzene	10.974	105	654787	9.19	ppb		93
81) sec-Butylbenzene	11.160	105	735041	9.15	ppb	#	90
82) 1,3-Dichlorobenzene	11.294	146	297496	9.30	ppb	#	90
83) p-Isopropyltoluene	11.340	119	660473	9.26	ppb		93
84) 1,4-Dichlorobenzene	11.410	146	295913m	9.38	ppb		
85) 1,2,3-Trimethylbenzene	11.436	105	666956	10.39	ppb	#	91
86) p-Diethylbenzene	11.773	105	330142	8.99	ppb	#	51
87) 1,2-Dichlorobenzene	11.802	146	259682	9.62	ppb	#	100
88) n-Butylbenzene	11.796	91	709948	8.93	ppb	#	91
89) 1,2-Dibromo-3-chloropr...	12.689	75	23660	9.38	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.662	119	565102	9.10	ppb	#	87
91) 1,2,4-Trichlorobenzene	13.650	180	152977	9.10	ppb	#	18
92) Hexachloro-1,3-Butadiene	13.834	225	82326	8.10	ppb	#	66
93) Naphthalene	13.938	128	275600	8.97	ppb	#	93
94) 1,2,3-Trichlorobenzene	14.194	180	106007	8.48	ppb	#	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912163.D
Acq On : 9 Jun 2020 1:26 am
Operator : TMP
Sample : SEQ-CCV1
Misc : QBQV9060820B
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 09 12:50:27 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Instrument ID:	QVOA6	Calibration:	YF00005
Lab File ID:	QV619462.D	Calibration Date:	05/18/20 12:40
Sequence:	Y0F0932	Injection Date:	06/08/20
Lab Sample ID:	Y0F0932-CCV1	Injection Time:	11:37

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	10.0	10.3	0.3660347	0.3785817		3.4	20	
1,1,1-Trichloroethane	A	10.0	10.4	2.072395	2.154727	0.1	4.0	20	
1,1,2,2-Tetrachloroethane	A	10.0	9.61	0.7160621	0.6883441	0.3	-3.9	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	10.1	1.005307	1.013353	0.1	0.8	20	
1,1,2-Trichloroethane	A	10.0	10.4	0.2648918	0.2749116	0.1	3.8	20	
1,1-Dichloroethane	A	10.0	10.6	2.444742	2.58064	0.2	5.6	20	
1,1-Dichloroethylene	A	10.0	10.2	1.921943	1.968476	0.1	2.4	20	
1,2,3-Trichlorobenzene	A	10.0	9.56	0.6813134	0.6509966		-4.4	20	
1,2,3-Trichloropropane	A	10.0	10.1	0.202731	0.2047708		1.0	20	
1,2,4-Trichlorobenzene	A	10.0	9.74	0.8065567	0.7853949	0.2	-2.6	20	
1,2,4-Trimethylbenzene	A	10.0	9.89	2.936586	2.904664		-1.1	20	
1,2-Dibromo-3-chloropropane	A	10.0	9.01	0.1232312	0.1110476	0.05	-9.9	20	
1,2-Dibromoethane	A	10.0	10.4	0.2619023	0.2732554	0.1	4.3	20	
1,2-Dichlorobenzene	A	10.0	10.2	1.561109	1.599938	0.4	2.5	20	
1,2-Dichloroethane	A	10.0	10.4	1.699972	1.770986	0.1	4.2	20	
1,2-Dichloropropane	A	10.0	9.70	0.4191104	0.4067421	0.1	-3.0	20	
1,3,5-Trimethylbenzene	A	10.0	9.80	2.94038	2.882823		-2.0	20	
1,3-Dichlorobenzene	A	10.0	10.1	1.707389	1.724102	0.6	1.0	20	
1,4-Dichlorobenzene	A	10.0	10.2	1.715979	1.756704	0.5	2.4	20	
1,4-Dioxane	A	200	352	1.002144E-03	1.765216E-03		76.1	20	*
2-Butanone	A	10.0	8.02	0.0971204	8.190632E-02	0.1	-15.7	20	
2-Hexanone	A	10.0	10.2	0.2176914	0.2223757	0.1	2.2	20	
4-Methyl-2-pentanone	A	10.0	9.79	0.3277815	0.320802	0.1	-2.1	20	
Acetone	L	10.0	9.85	0.3132386	0.2853578	0.1	-1.5	20	
Acrolein	A	10.0	11.4	0.1038422	0.1188213		14.4	20	
Acrylonitrile	A	10.0	11.0	0.2619943	0.2890722		10.3	20	
Benzene	A	10.0	10.5	4.714945	4.937389	0.5	4.7	20	
Bromochloromethane	A	10.0	10.6	1.162166	1.227281		5.6	20	
Bromodichloromethane	A	10.0	9.61	0.508692	0.4888714	0.2	-3.9	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Instrument ID:	QVOA6	Calibration:	YF00005
Lab File ID:	QV619462.D	Calibration Date:	05/18/20 12:40
Sequence:	Y0F0932	Injection Date:	06/08/20
Lab Sample ID:	Y0F0932-CCV1	Injection Time:	11:37

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	9.60	0.1922259	0.1845066	0.1	-4.0	20	
Bromomethane	L	10.0	1.43	0.5957972	0.1109926	0.1	-85.7	20	*
Carbon disulfide	A	10.0	9.43	2.646507	2.496809	0.1	-5.7	20	
Carbon tetrachloride	A	10.0	9.95	1.775226	1.766681	0.1	-0.5	20	
Chlorobenzene	A	10.0	10.4	0.9658196	1.005327	0.5	4.1	20	
Chloroethane	A	10.0	11.2	0.7977304	0.8973885	0.1	12.5	20	
Chloroform	A	10.0	10.6	2.240544	2.383893	0.2	6.4	20	
Chloromethane	A	10.0	15.0	1.390685	2.088002	0.1	50.1	20	*
cis-1,2-Dichloroethylene	A	10.0	11.6	2.208792	2.572049	0.1	16.4	20	
cis-1,3-Dichloropropylene	A	10.0	9.85	0.561764	0.5532135	0.2	-1.5	20	
Cyclohexane	A	10.0	8.00	2.213359	1.770415	0.1	-20.0	20	
Dibromochloromethane	A	10.0	9.99	0.3263194	0.3258537	0.1	-0.1	20	
Dibromomethane	A	10.0	9.89	0.1919129	0.1897763		-1.1	20	
Dichlorodifluoromethane	A	10.0	9.29	0.807931	0.7508333	0.1	-7.1	20	
Ethyl Benzene	A	10.0	10.3	1.657542	1.712431	0.1	3.3	20	
Hexachlorobutadiene	A	10.0	9.69	0.1734989	0.1681323		-3.1	20	
Isopropylbenzene	A	10.0	9.59	3.837779	3.678613	0.1	-4.1	20	
Methyl acetate	A	10.0	12.2	0.587381	0.7164136	0.1	22.0	20	*
Methyl tert-butyl ether (MTBE)	A	10.0	10.7	3.042402	3.258805	0.1	7.1	20	
Methylcyclohexane	A	10.0	9.42	0.5691352	0.5361999	0.1	-5.8	20	
Methylene chloride	A	10.0	10.5	1.861669	1.959237	0.1	5.2	20	
n-Butylbenzene	A	10.0	9.45	2.577393	2.435317		-5.5	20	
n-Propylbenzene	A	10.0	9.50	4.324929	4.106794		-5.0	20	
o-Xylene	A	10.0	10.4	1.322213	1.375799	0.3	4.1	20	
p- & m- Xylenes	A	20.0	20.7	1.290783	1.338802	0.1	3.7	20	
p-Isopropyltoluene	A	10.0	9.74	2.834412	2.761564		-2.6	20	
sec-Butylbenzene	A	10.0	9.38	3.066893	2.877471		-6.2	20	
Styrene	A	10.0	10.6	1.002567	1.064763	0.3	6.2	20	
tert-Butyl alcohol (TBA)	A	10.0	14.4	0.1038913	0.1495838		44.0	20	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Instrument ID:	QVOA6	Calibration:	YF00005
Lab File ID:	QV619462.D	Calibration Date:	05/18/20 12:40
Sequence:	Y0F0932	Injection Date:	06/08/20
Lab Sample ID:	Y0F0932-CCV1	Injection Time:	11:37

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
tert-Butylbenzene	A	10.0	9.57	3.080197	2.949216		-4.3	20
Tetrachloroethylene	A	10.0	10.6	0.4075414	0.4303441	0.2	5.6	20
Toluene	A	10.0	9.79	1.549267	1.516076	0.4	-2.1	20
trans-1,2-Dichloroethylene	A	10.0	10.3	1.860118	1.923865	0.1	3.4	20
trans-1,3-Dichloropropylene	A	10.0	9.85	0.4756688	0.4687219	0.1	-1.5	20
trans-1,4-dichloro-2-butene	A	10.0	8.41	0.8727739	0.7342108		-15.9	20
Trichloroethylene	A	10.0	10.1	0.3977452	0.4004756	0.2	0.7	20
Trichlorofluoromethane	A	10.0	11.2	1.614859	1.806739	0.1	11.9	20
Vinyl Chloride	A	10.0	11.2	1.211735	1.355473	0.1	11.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060820A\
Data File : QV619462.D
Acq On : 8 Jun 2020 11:37 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CCV1
Misc : QBQV6060820A
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 14:50:31 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Jun 08 11:17:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.131	70	52499	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	9.186	117	192611	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	12.163	152	87449	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.817	65	74101	10.23	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 102.30%				
53) Toluene-d8 (SURR)	7.681	98	261861	9.74	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 97.40%				
73) p-Bromofluorobenzene (...	10.468	95	93818	9.49	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 94.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.599	85	39418m	9.29	ppb		
3) Chloromethane	1.821	50	109618m	15.01	ppb		
4) Vinyl Chloride	1.919	62	71161	11.19	ppb	#	46
5) Bromomethane	2.278	94	5827m	1.43	ppb		
6) Chloroethane	2.406	64	47112	11.25	ppb		91
7) Trichlorofluoromethane	2.700	101	94852	11.19	ppb		98
8) Ethanol	2.873	45	18867	798.85	ppb	#	1
9) Freon-113	3.265	101	53200	10.08	ppb		100
10) 1,1-Dichloroethylene	3.246	61	103343	10.24	ppb		97
11) Acrolein	3.134	56	6238	11.44	ppb	#	73
12) Acetone	3.274	43	14981	9.85	ppb	#	97
13) Iodomethane	3.396	142	3858m	0.50	ppb		
14) Allyl Chloride	3.627	76	31638	10.03	ppb	#	100
15) Methyl Acetate	3.613	43	37611	12.20	ppb		99
16) Carbon disulfide	3.477	76	131080	9.43	ppb		100
17) tert-Butyl Alcohol (TBA)	3.863	59	7853	14.40	ppb	#	1
18) Methylene Chloride	3.758	49	102858	10.52	ppb		96
19) Acrylonitrile	3.966	53	15176	11.03	ppb	#	66
20) trans-1,2-Dichloroethy...	4.047	61	101001	10.34	ppb		99
21) tert-Butyl Methyl Ethe...	4.036	73	171084	10.71	ppb	#	100
22) 1,1-Dichloroethane	4.470	63	135481	10.56	ppb	#	97
23) Vinyl Acetate	4.470	43	106764	13.16	ppb	#	100
24) Diisopropyl ether (DIPE)	4.512	45	283495	10.51	ppb	#	99
25) Ethyl-tert-Butyl ether...	4.865	59	257219	10.72	ppb	#	100
26) cis-1,2-Dichloroethylene	5.018	61	135030	11.64	ppb		99
27) 2-Butanone	4.990	72	4300	8.02	ppb	#	95
28) 2,2-Dichloropropane	5.029	77	105131	15.40	ppb	#	90
29) Tetrahydrofuran	5.263	42	16202	10.26	ppb	#	49
30) Bromochloromethane	5.249	49	64431	10.56	ppb		96
31) Chloroform	5.346	83	125152	10.64	ppb	#	84
32) 1,1,1-Trichloroethane	5.511	97	113121	10.40	ppb	#	82
33) Cyclohexane	5.600	56	92945m	8.00	ppb		
34) 1,1-Dichloropropylene	5.664	75	91651	10.36	ppb		98
36) Carbon Tetrachloride	5.669	117	92749	9.95	ppb	#	53
37) tert-Amyl alcohol (TAA)	5.842	59	57543	125.95	ppb	#	84
38) 1,2-Dichloroethane	5.892	62	92975	10.42	ppb		99
39) Benzene	5.844	78	259208	10.47	ppb	#	63
40) tert-Amyl methyl ether...	5.975	73	186570	10.63	ppb	#	100
42) Trichloroethylene	6.487	95	77136	10.07	ppb		95
43) Methyl Cyclohexane	6.726	83	103278	9.42	ppb	#	77
44) Methyl Methacrylate	6.768	69	35041	8.20	ppb	#	21
45) Dibromomethane	6.813	93	36553	9.89	ppb		98
46) Bromodichloromethane	6.985	83	94162	9.61	ppb		99
47) 1,2-Dichloropropane	6.726	63	78343	9.70	ppb	#	100
48) 1,4-Dioxane	6.796	88	6800	352.29	ppb	#	75
49) 2-nitropropane	7.160	43	16380	8.80	ppb	#	100
51) cis-1,3-Dichloropropene	7.411	75	106555	9.85	ppb		98
52) 4-Methyl-2-Pentanone	7.530	43	61790	9.79	ppb		96

Data Path : C:\msdchem\1\DATA\060820A\
Data File : QV619462.D
Acq On : 8 Jun 2020 11:37 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CCV1
Misc : QBQV6060820A
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 14:50:31 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Jun 08 11:17:08 2020
Response via : Initial Calibration

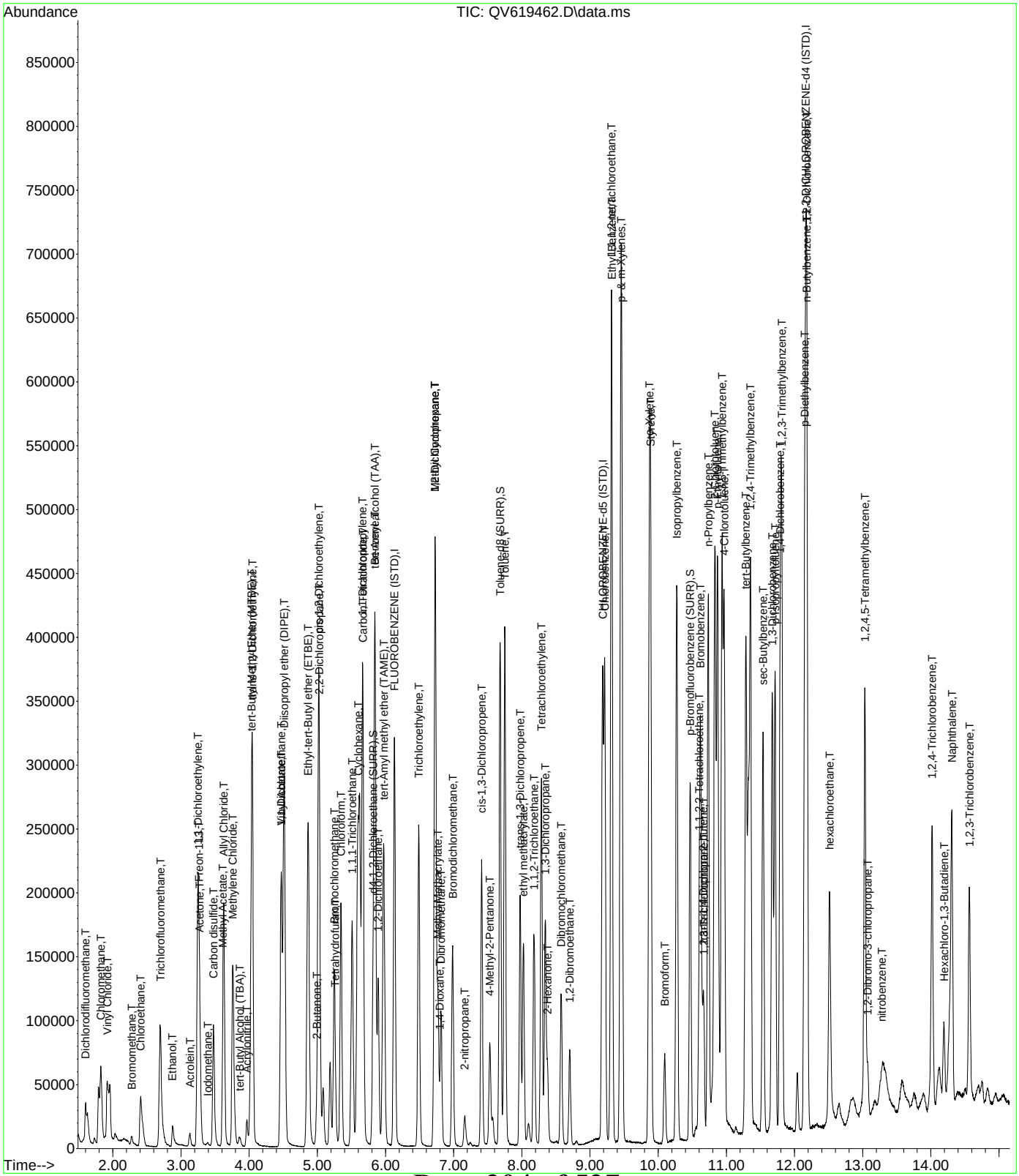
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Toluene	7.750	91	292013	9.79	ppb		99
55) trans-1,3-Dichloropropene	7.976	75	90281	9.85	ppb		99
56) ethyl methacrylate	8.023	69	73993	9.86	ppb	#	100
57) 1,1,2-Trichloroethane	8.179	97	52951	10.38	ppb		99
58) 1,3-Dichloropropane	8.343	76	86039	10.05	ppb	#	62
59) Tetrachloroethylene	8.287	166	82889	10.56	ppb	#	99
60) 2-Hexanone	8.376	43	42832	10.22	ppb	#	16
61) Dibromochloromethane	8.577	129	62763	9.99	ppb		98
62) 1,2-Dibromoethane	8.702	107	52632	10.43	ppb		99
63) Chlorobenzene	9.216	112	193637	10.41	ppb		98
64) 1,1,1,2-tetrachloroethane	9.314	131	72919	10.34	ppb		98
65) Ethyl Benzene	9.319	91	329833	10.33	ppb		100
66) p- & m-Xylenes	9.459	91	515736	20.74	ppb		98
67) o-Xylene	9.870	91	264994	10.41	ppb		100
68) Styrene	9.890	104	205085	10.62	ppb		96
69) Bromoform	10.096	173	35538	9.60	ppb	#	79
71) p-Ethyltoluene	10.869	105	274938m	10.03	ppb		
72) Isopropylbenzene	10.271	105	321691	9.59	ppb		97
74) 1,1,2,2-Tetrachloroethane	10.602	83	60195	9.61	ppb	#	69
75) Bromobenzene	10.619	77	126654	8.78	ppb		96
76) trans-1,4-Dichloro-2-b...	10.663	75	64206	8.41	ppb	#	61
77) 1,2,3-Trichloropropane	10.669	110	17907	10.10	ppb	#	1
78) n-Propylbenzene	10.736	91	359135	9.50	ppb		98
79) 2-Chlorotoluene	10.830	91	253430	9.75	ppb		100
80) 4-Chlorotoluene	10.969	91	262259	9.76	ppb		97
81) 1,3,5-Trimethylbenzene	10.936	105	252100	9.80	ppb	#	64
82) tert-Butylbenzene	11.286	119	257906	9.57	ppb		93
83) 1,2,4-Trimethylbenzene	11.353	105	254010	9.89	ppb		99
84) sec-Butylbenzene	11.537	105	251632	9.38	ppb		98
85) 1,3-Dichlorobenzene	11.673	146	150771	10.10	ppb		98
86) p-Isopropyltoluene	11.715	119	241496	9.74	ppb		98
87) 1,4-Dichlorobenzene	11.790	146	153622	10.24	ppb		97
88) 1,2,3-Trimethylbenzene	11.812	105	266799	11.27	ppb		99
89) p-Diethylbenzene	12.149	105	105009	9.59	ppb	#	98
90) 1,2-Dichlorobenzene	12.180	146	139913	10.25	ppb		99
91) n-Butylbenzene	12.177	91	212966	9.45	ppb		96
92) hexachloroethane	12.516	117	35944	8.12	ppb	#	100
93) 1,2-Dibromo-3-chloropr...	13.073	75	9711	9.01	ppb		96
94) 1,2,4,5-Tetramethylben...	13.034	119	202904	9.90	ppb		98
95) nitrobenzene	13.279	77	554	4.93	ppb	#	100
96) 1,2,4-Trichlorobenzene	14.019	180	68682	9.74	ppb		96
97) Hexachloro-1,3-Butadiene	14.197	225	14703	9.69	ppb		98
98) Naphthalene	14.308	128	160435	9.55	ppb		99
99) 1,2,3-Trichlorobenzene	14.567	180	56929	9.56	ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060820A\
Data File : QV619462.D
Acq On : 8 Jun 2020 11:37 am
InstName : QVOA6
Operator : TMP
Sample : SEQ-CCV1
Misc : QBQV6060820A
ALS Vial : 2 Sample Multiplier: 1

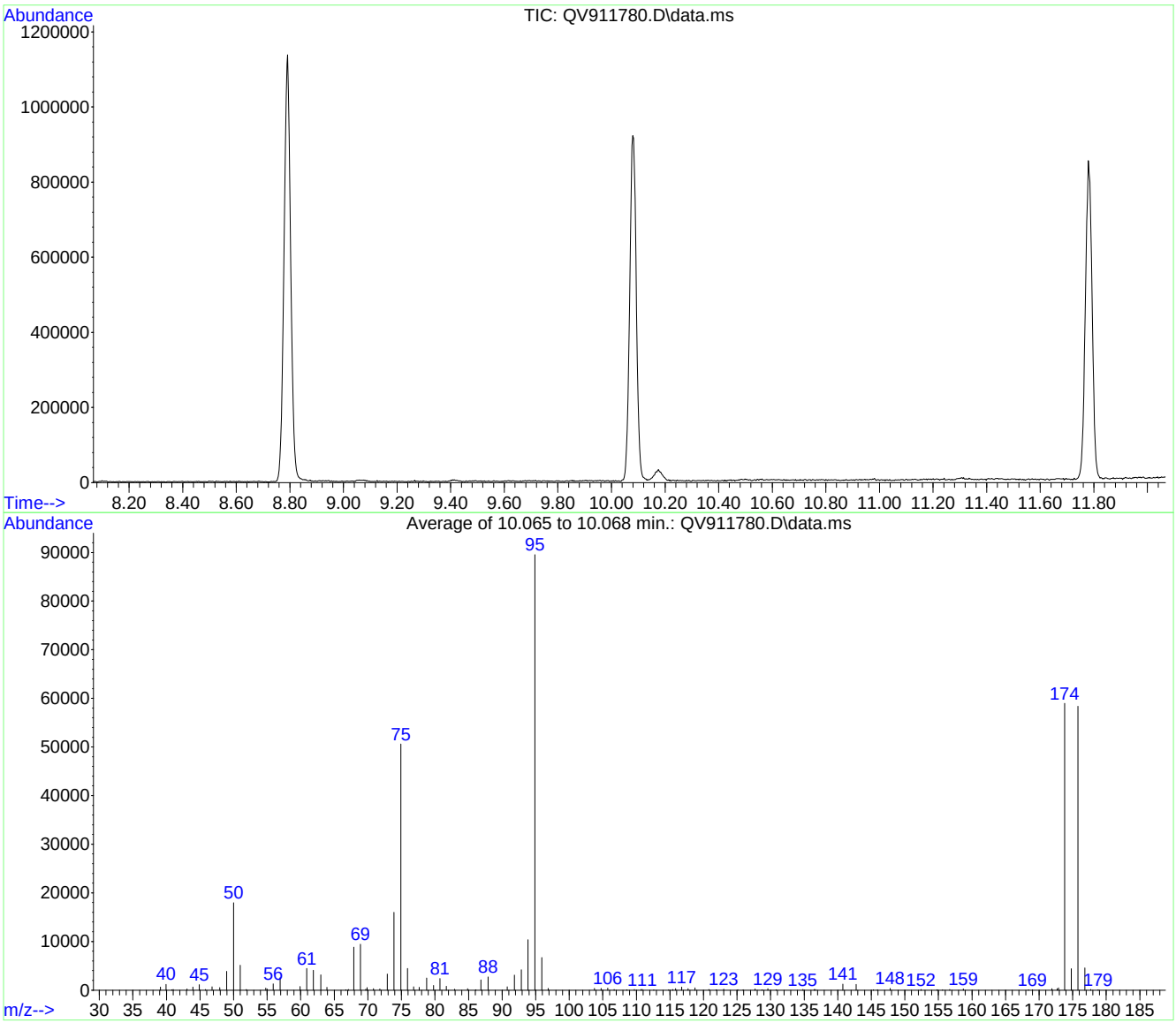
Quant Time: Jun 09 14:50:31 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Jun 08 11:17:08 2020
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\052020A\
Data File : QV911780.D
Acq On : 20 May 2020 5:37 pm
Operator : TMP
Misc : QBQV9052020A
Sample : SEQ-TUN1 Inst : QVOA9
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\VQ9LO027.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Thu May 21 11:13:32 2020



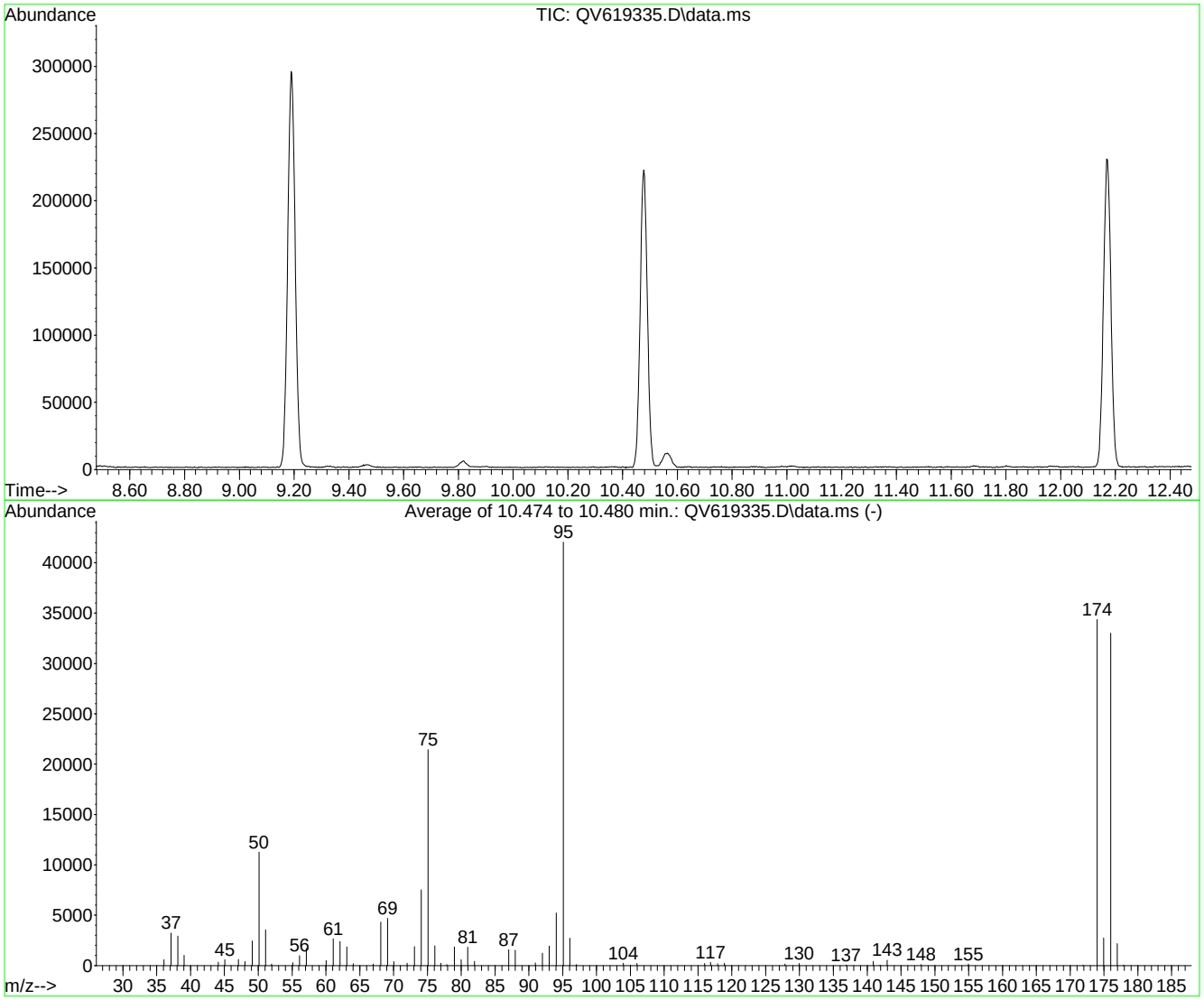
Spectrum Information: Average of 10.065 to 10.068 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	17954	PASS
75	95	30	60	56.5	50620	PASS
95	95	100	100	100.0	89520	PASS
96	95	5	9	7.5	6713	PASS
173	174	0.00	2	0.8	483	PASS
174	95	50	100	65.9	58956	PASS
175	174	5	9	7.5	4397	PASS
176	174	95	101	99.0	58352	PASS
177	176	5	9	7.8	4560	PASS

Data Path : C:\msdchem\1\DATA\051820A\
Data File : QV619335.D
Acq On : 18 May 2020 6:14 pm
Operator : TMP
InstName : QVOA6
Sample : SEQ-TUN1
Misc : QBQV6051820A
ALS Vial : 7 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\2\METHODS\VQ6LO071.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Thu Apr 23 15:50:11 2020



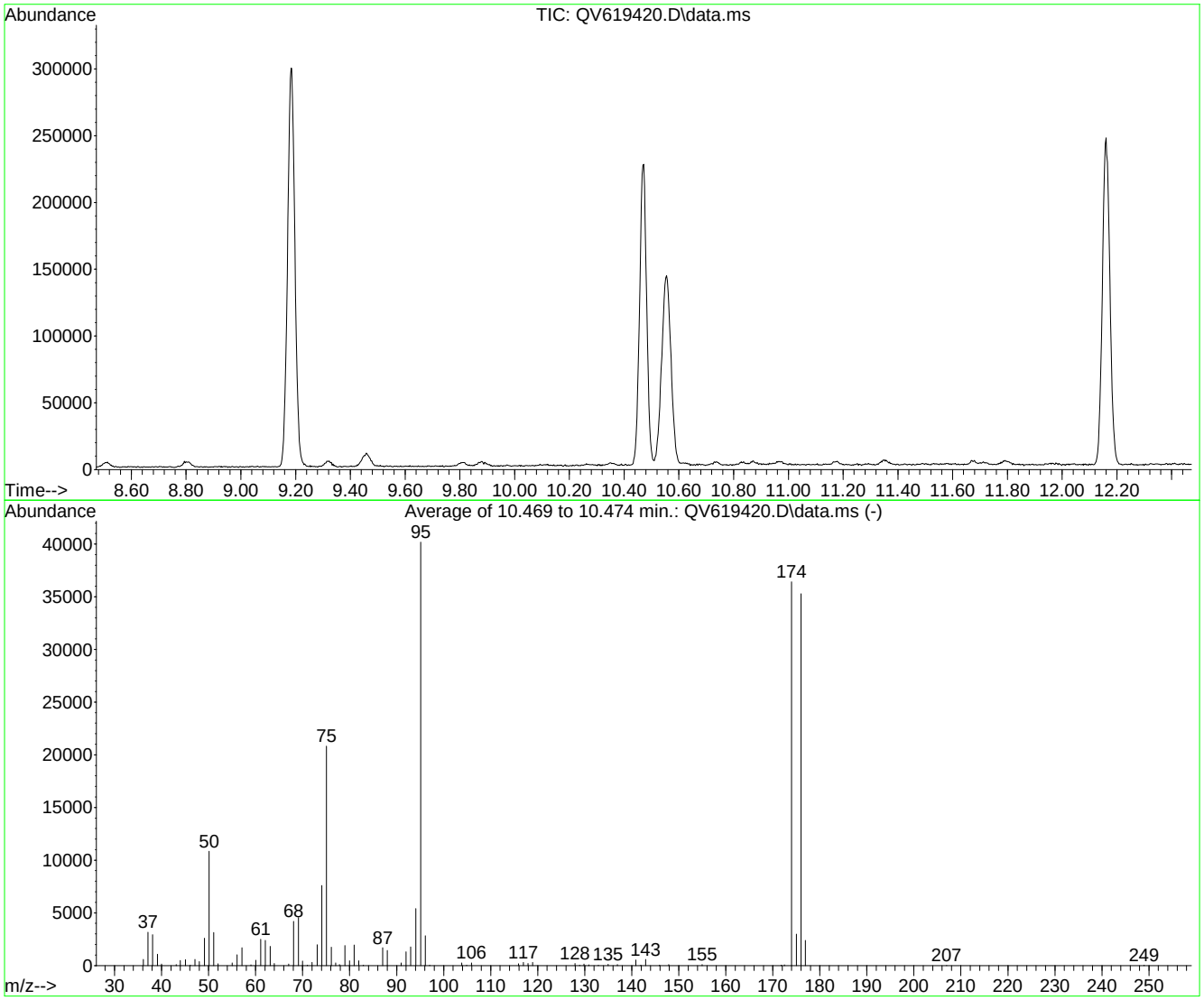
Spectrum Information: Average of 10.474 to 10.480 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.8	11257	PASS
75	95	30	60	51.0	21427	PASS
95	95	100	100	100.0	42037	PASS
96	95	5	9	6.5	2720	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	81.7	34349	PASS
175	174	5	9	8.0	2737	PASS
176	174	95	101	96.1	33016	PASS
177	176	5	9	6.6	2187	PASS

Data Path : C:\msdchem\1\DATA\060520A\
Data File : QV619420.D
Acq On : 5 Jun 2020 10:03 am
Operator : TMP
InstName : QVOA6
Sample : SEQ-TUN1
Misc : QBQV6060520A
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\2\METHODS\VQ6LO072.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Fri Jun 12 13:13:35 2020



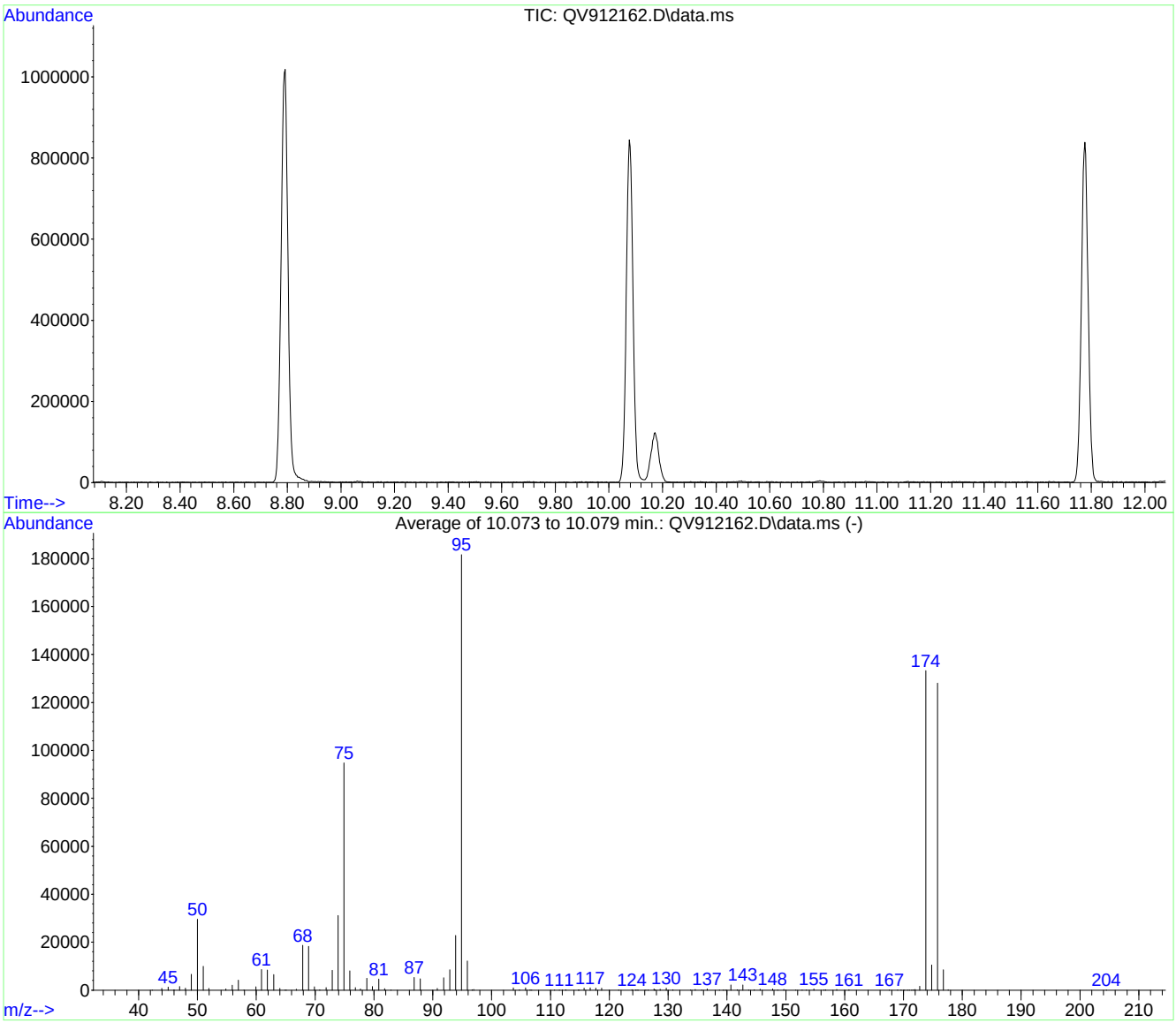
Spectrum Information: Average of 10.469 to 10.474 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.0	10842	PASS
75	95	30	60	51.8	20827	PASS
95	95	100	100	100.0	40173	PASS
96	95	5	9	7.0	2813	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	90.6	36413	PASS
175	174	5	9	8.2	2983	PASS
176	174	95	101	96.9	35283	PASS
177	176	5	9	6.7	2379	PASS

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912162.D
Acq On : 9 Jun 2020 12:55 am
Operator : TMP
Misc : QBQV9060820B
Sample : SEQ-TUN1 Inst : QVOA9
ALS Vial : 28 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\VQ9LO027.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Thu May 21 11:13:32 2020



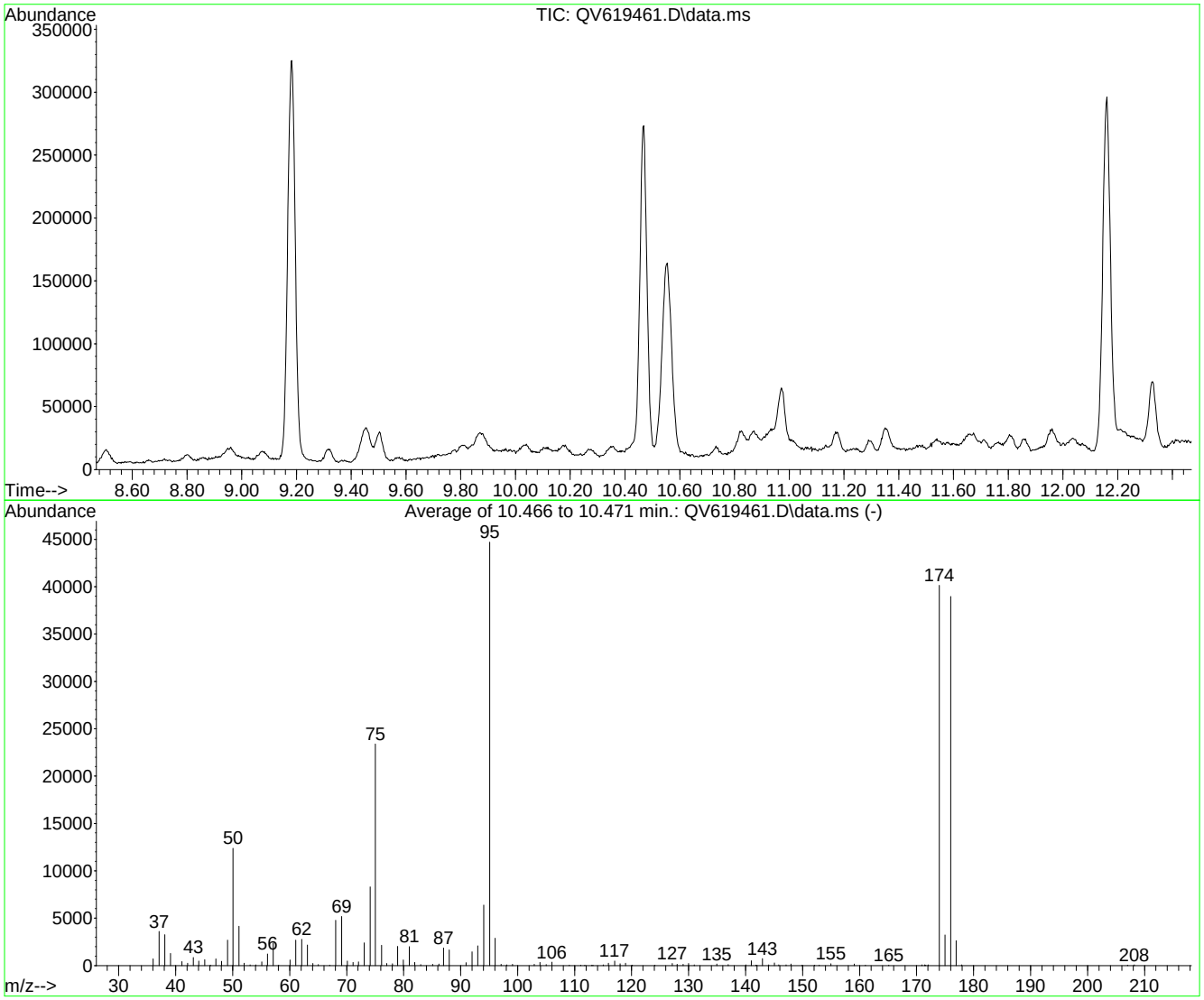
Spectrum Information: Average of 10.073 to 10.079 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.3	29573	PASS
75	95	30	60	52.2	94749	PASS
95	95	100	100	100.0	181589	PASS
96	95	5	9	6.7	12154	PASS
173	174	0.00	2	1.2	1584	PASS
174	95	50	100	73.4	133312	PASS
175	174	5	9	7.9	10497	PASS
176	174	95	101	96.0	128032	PASS
177	176	5	9	6.6	8487	PASS

Data Path : C:\msdchem\1\DATA\060820A\
Data File : QV619461.D
Acq On : 8 Jun 2020 11:09 am
Operator : TMP
InstName : QVOA6
Sample : SEQ-TUN1
Misc : QBQV6060820A
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\2\METHODS\VQ6LO072.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Wed Jun 03 10:29:09 2020



Spectrum Information: Average of 10.466 to 10.471 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.7	12390	PASS
75	95	30	60	52.3	23382	PASS
95	95	100	100	100.0	44693	PASS
96	95	5	9	6.5	2891	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	89.8	40140	PASS
175	174	5	9	8.1	3236	PASS
176	174	95	101	97.1	38957	PASS
177	176	5	9	6.7	2625	PASS

METHOD BLANK RAW DATA

SDG: 20F0067
CLASS: VOA
METHOD: EPA 8260C

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00412-BLK1	File ID:	QV619428.D
Prepared:	06/05/20 06:57	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	06/05/20 14:50	Instrument:	QVOA6		
Batch:	BF00412	Sequence:	Y0F0821	Calibration:	YF00005

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
75-35-4	1,1-Dichloroethylene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00412-BLK1	File ID:	QV619428.D
Prepared:	06/05/20 06:57	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	06/05/20 14:50	Instrument:	QVOA6		
Batch:	BF00412	Sequence:	Y0F0821	Calibration:	YF00005

CAS NO.	COMPOUND	CONC. (ug/L)	Q
74-83-9	Bromomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
108-90-7	Chlorobenzene	0.50	U
75-00-3	Chloroethane	0.50	U
67-66-3	Chloroform	0.50	U
74-87-3	Chloromethane	0.48	J
156-59-2	cis-1,2-Dichloroethylene	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	0.50	U
110-82-7	Cyclohexane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-71-8	Dichlorodifluoromethane	0.50	U
100-41-4	Ethyl Benzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	2.0	U
104-51-8	n-Butylbenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	p- & m- Xylenes	1.0	U
99-87-6	p-Isopropyltoluene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
100-42-5	Styrene	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1.0	U
98-06-6	tert-Butylbenzene	0.50	U
127-18-4	Tetrachloroethylene	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00412-BLK1	File ID:	QV619428.D
Prepared:	06/05/20 06:57	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	06/05/20 14:50	Instrument:	QVOA6		
Batch:	BF00412	Sequence:	Y0F0821	Calibration:	YF00005

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-88-3	Toluene	0.50	U
156-60-5	trans-1,2-Dichloroethylene	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	0.50	U
79-01-6	Trichloroethylene	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
1330-20-7	Xylenes, Total	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.89	98.9	69 - 130	
SURR: Toluene-d8	10.0	9.66	96.6	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.10	91.0	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	44801	6.131	49957	6.131	
ISTD: Chlorobenzene-d5	168313	9.186	185241	9.186	
ISTD: 1,2-Dichlorobenzene-d4	75887	12.163	82039	12.16	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060520A\
Data File : QV619428.D
Acq On : 5 Jun 2020 2:50 pm
InstName : QVOA6
Operator : TMP
Sample : BF00412-BLK1
Misc : QBQV6060520A
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 08 12:41:52 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Jun 03 10:29:09 2020
Response via : Initial Calibration

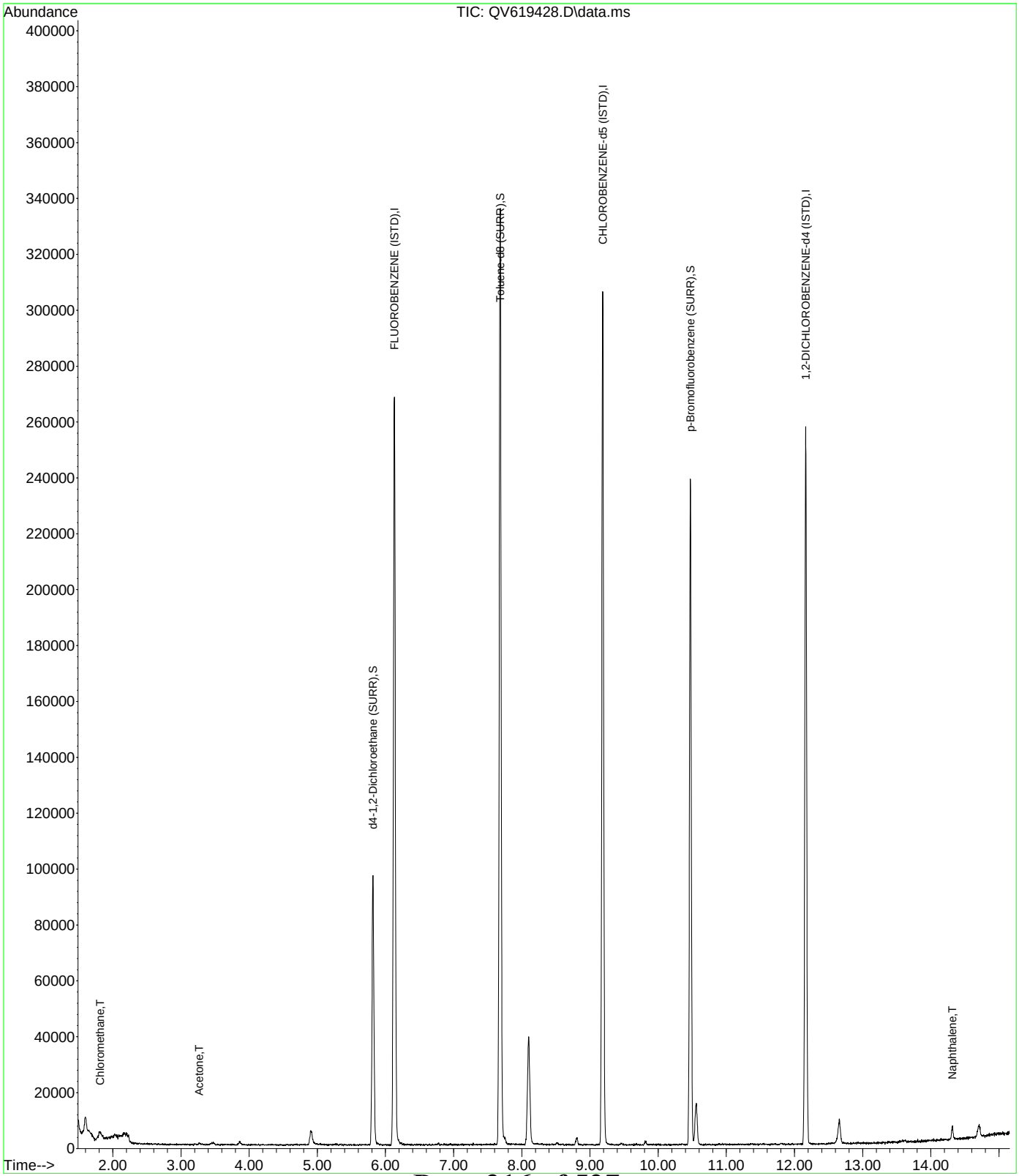
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.131	70	44801	10.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	9.186	117	168313	10.00	ppb	0.00
70) 1,2-DICHLOROBENZENE-d4...	12.163	152	75887	10.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.814	65	61136	9.89	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 98.90%			
53) Toluene-d8 (SURR)	7.681	98	226963	9.66	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 96.60%			
73) p-Bromofluorobenzene (...	10.471	95	78133	9.10	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 91.00%			
Target Compounds						Qvalue
3) Chloromethane	1.813	50	2984	0.48	ppb	# 86
12) Acetone	3.265	43	364	0.28	ppb	# 85
98) Naphthalene	14.314	128	4029	0.28	ppb	95

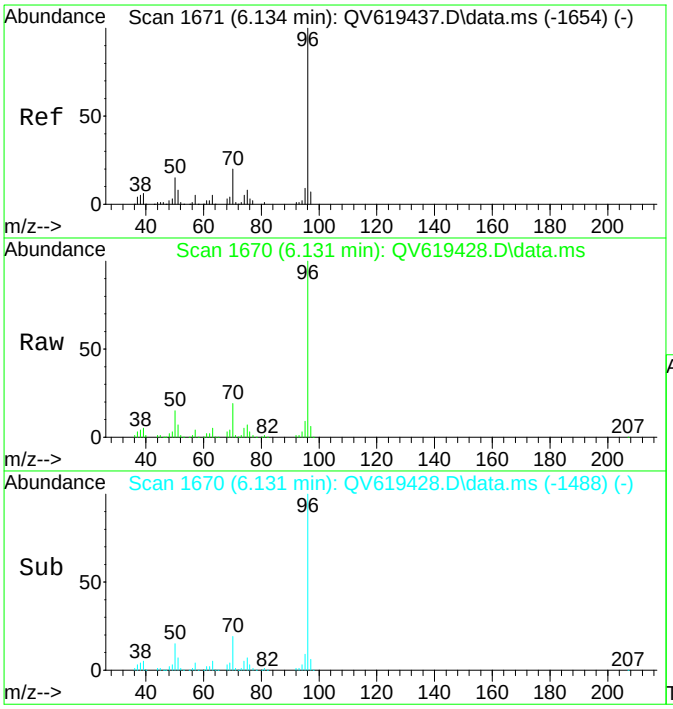
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060520A\
Data File : QV619428.D
Acq On : 5 Jun 2020 2:50 pm
InstName : QVOA6
Operator : TMP
Sample : BF00412-BLK1
Misc : QBQV6060520A
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 08 12:41:52 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Jun 03 10:29:09 2020
Response via : Initial Calibration

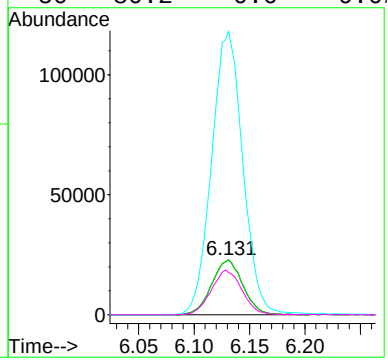


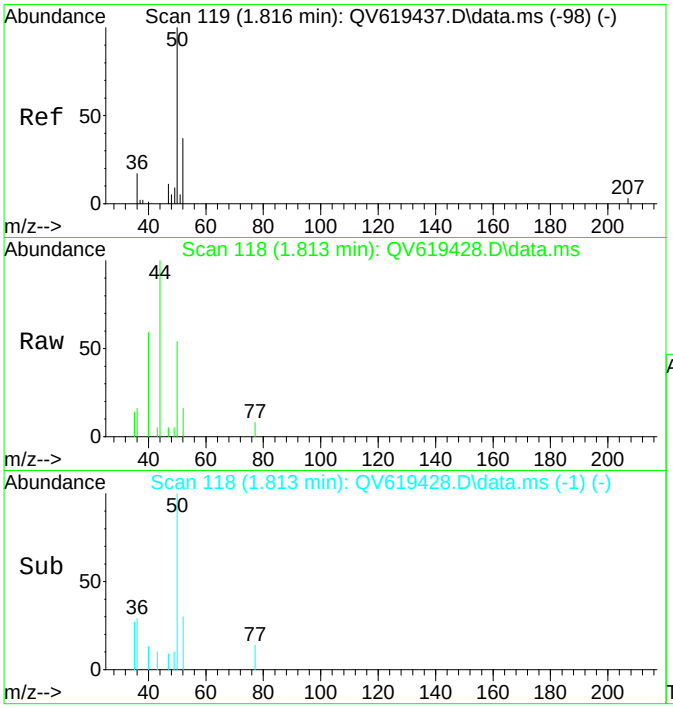


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 6.131 min Scan# 1670
Delta R.T. 0.006 min
Lab File: QV619428.D
Acq: 5 Jun 2020 2:50 pm

Tgt Ion: 70 Resp: 44801

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	0.0	341.1	708.3#
50	80.2	0.0	0.0#

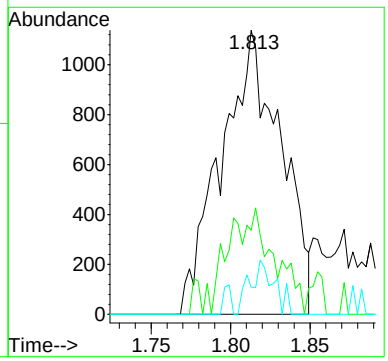


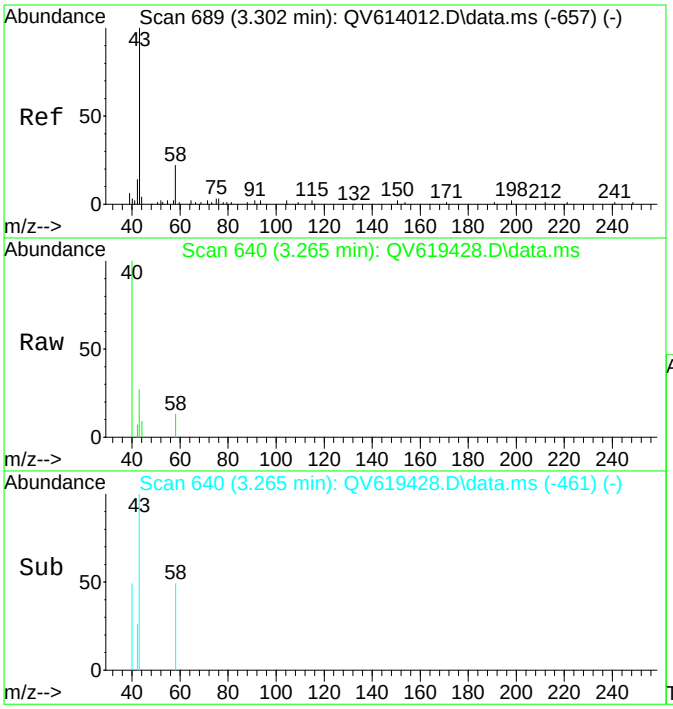


#3
Chloromethane
Concen: 0.48 ppb
RT: 1.813 min Scan# 118
Delta R.T. 0.031 min
Lab File: QV619428.D
Acq: 5 Jun 2020 2:50 pm

Tgt Ion: 50 Resp: 2984

Ion	Ratio	Lower	Upper
50	100		
52	3.0	5.2	10.8#
49	7.7	2.0	4.2#

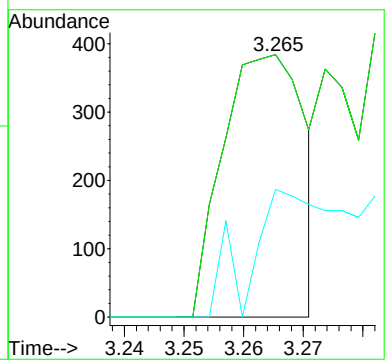


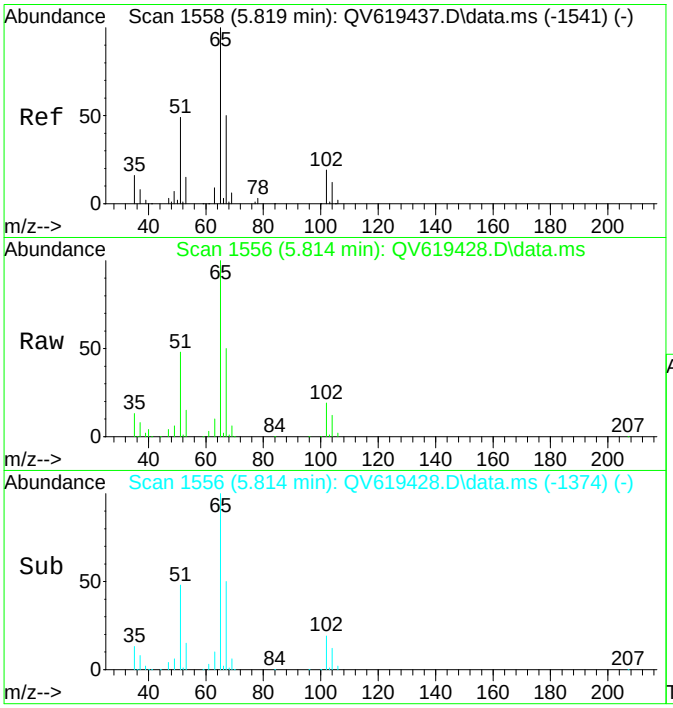


#12
Acetone
Concen: 0.28 ppb
RT: 3.265 min Scan# 640
Delta R.T. -0.003 min
Lab File: QV619428.D
Acq: 5 Jun 2020 2:50 pm

Tgt Ion: 43 Resp: 364

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	64.8	6.0	18.1#

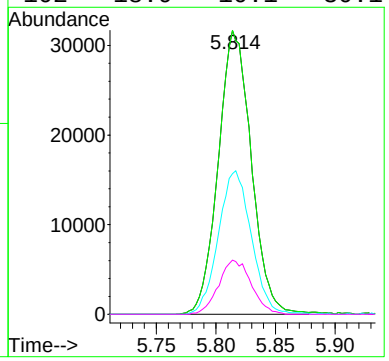


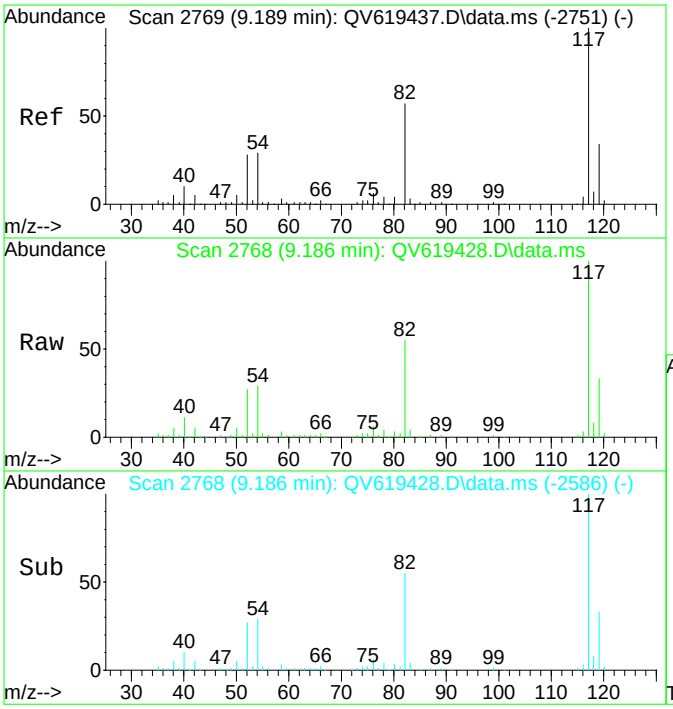


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.89 ppb
RT: 5.814 min Scan# 1556
Delta R.T. 0.006 min
Lab File: QV619428.D
Acq: 5 Jun 2020 2:50 pm

Tgt Ion: 65 Resp: 61136

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	50.5	34.0	70.6
102	18.9	10.1	30.1

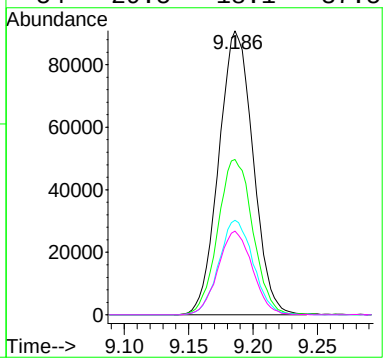


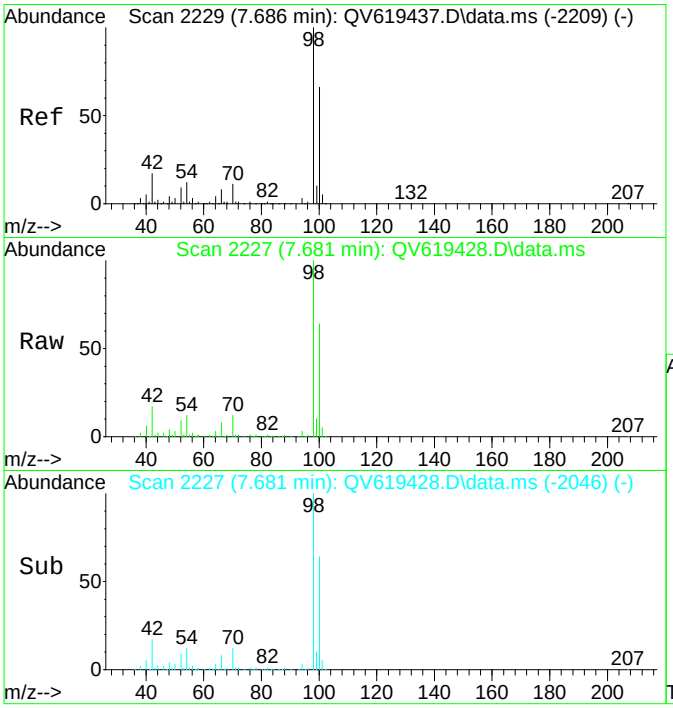


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 9.186 min Scan# 2768
Delta R.T. 0.006 min
Lab File: QV619428.D
Acq: 5 Jun 2020 2:50 pm

Tgt Ion:117 Resp: 168313

Ion	Ratio	Lower	Upper
117	100		
82	55.9	34.5	71.7
119	33.4	20.9	43.3
54	29.5	18.1	37.5

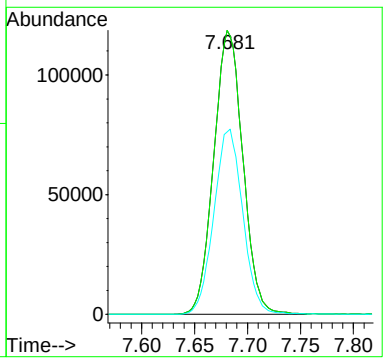


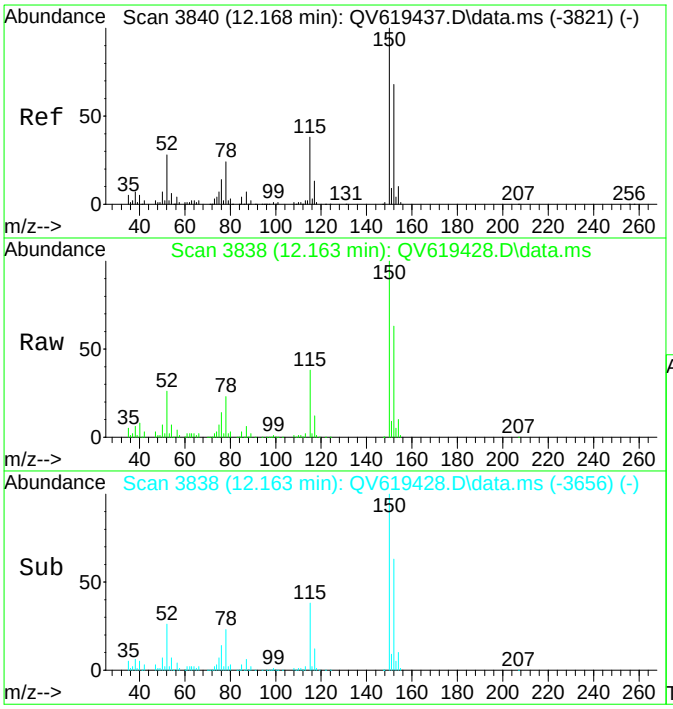


#53
Toluene-d8 (SURR)
Concen: 9.66 ppb
RT: 7.681 min Scan# 2227
Delta R.T. 0.003 min
Lab File: QV619428.D
Acq: 5 Jun 2020 2:50 pm

Tgt Ion: 98 Resp: 226963

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	64.6	44.2	91.8

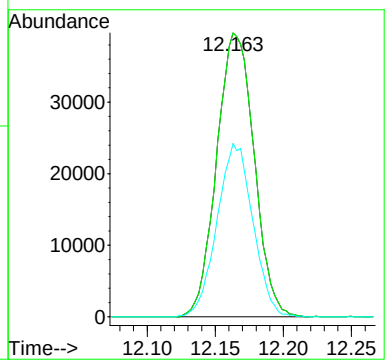


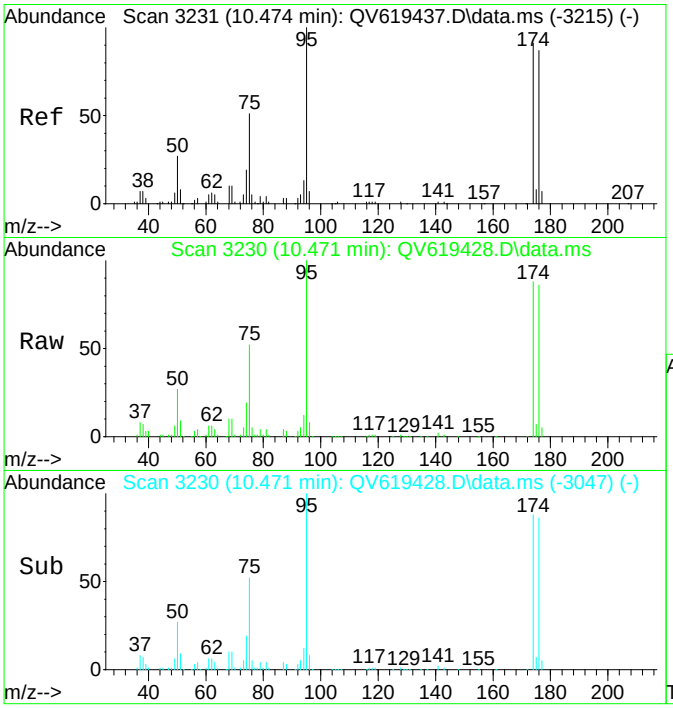


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 12.163 min Scan# 3838
Delta R.T. 0.006 min
Lab File: QV619428.D
Acq: 5 Jun 2020 2:50 pm

Tgt Ion:152 Resp: 75887

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	58.4	29.8	89.3

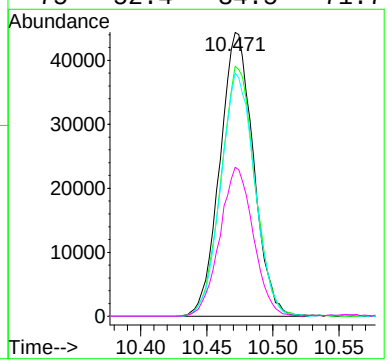


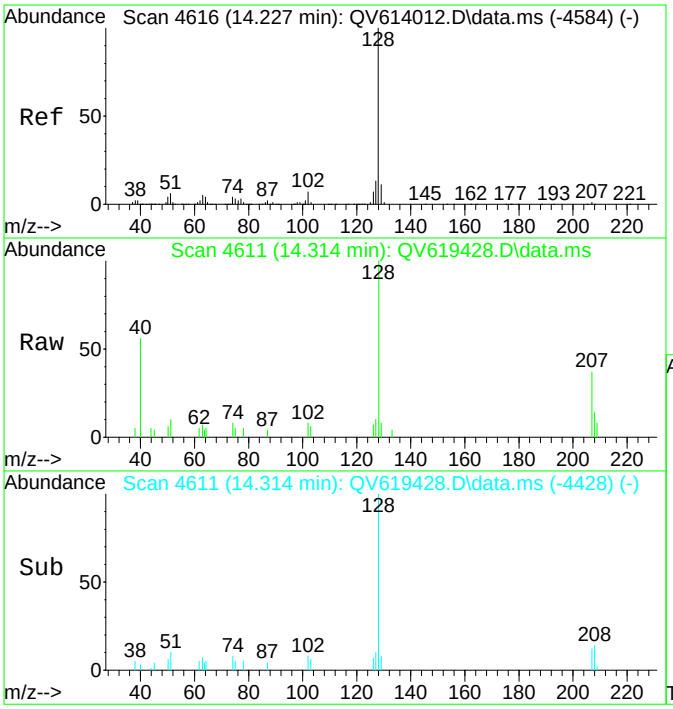


#73
p-Bromofluorobenzene (SURR)
Concen: 9.10 ppb
RT: 10.471 min Scan# 3230
Delta R.T. 0.008 min
Lab File: QV619428.D
Acq: 5 Jun 2020 2:50 pm

Tgt Ion: 95 Resp: 78133

Ion	Ratio	Lower	Upper
95	100		
174	89.1	62.5	129.9
176	86.4	60.7	126.1
75	52.4	34.5	71.7

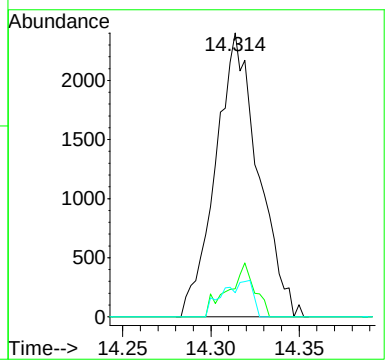




#98
Naphthalene
Concen: 0.28 ppb
RT: 14.314 min Scan# 4611
Delta R.T. 0.009 min
Lab File: QV619428.D
Acq: 5 Jun 2020 2:50 pm

Tgt Ion:128 Resp: 4029

Ion	Ratio	Lower	Upper
128	100		
127	11.8	8.9	18.5
129	9.2	7.3	15.3



METHOD BLANK RAW DATA

SDG: 20F0067
CLASS: VOA
METHOD: EPA 8260C

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00478-BLK1	File ID:	QV912168.D
Prepared:	06/08/20 06:13	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	06/09/20 04:01	Instrument:	QVOA9		
Batch:	BF00478	Sequence:	Y0F0919	Calibration:	YF00003

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
75-35-4	1,1-Dichloroethylene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00478-BLK1	File ID:	QV912168.D
Prepared:	06/08/20 06:13	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	06/09/20 04:01	Instrument:	QVOA9		
Batch:	BF00478	Sequence:	Y0F0919	Calibration:	YF00003

CAS NO.	COMPOUND	CONC. (ug/L)	Q
74-83-9	Bromomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
108-90-7	Chlorobenzene	0.50	U
75-00-3	Chloroethane	0.50	U
67-66-3	Chloroform	0.50	U
74-87-3	Chloromethane	0.50	U
156-59-2	cis-1,2-Dichloroethylene	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	0.50	U
110-82-7	Cyclohexane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-71-8	Dichlorodifluoromethane	0.50	U
100-41-4	Ethyl Benzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	2.0	U
104-51-8	n-Butylbenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	p- & m- Xylenes	1.0	U
99-87-6	p-Isopropyltoluene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
100-42-5	Styrene	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1.0	U
98-06-6	tert-Butylbenzene	0.50	U
127-18-4	Tetrachloroethylene	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00478-BLK1	File ID:	QV912168.D
Prepared:	06/08/20 06:13	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	06/09/20 04:01	Instrument:	QVOA9		
Batch:	BF00478	Sequence:	Y0F0919	Calibration:	YF00003

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-88-3	Toluene	0.50	U
156-60-5	trans-1,2-Dichloroethylene	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	0.50	U
79-01-6	Trichloroethylene	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
1330-20-7	Xylenes, Total	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.1	101	69 - 130	
SURR: Toluene-d8	10.0	10.0	100	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.2	102	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	158749	5.746	144711	5.74	
ISTD: Chlorobenzene-d5	624999	8.792	586505	8.789	
ISTD: 1,2-Dichlorobenzene-d4	235477	11.779	242025	11.779	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912168.D
Acq On : 9 Jun 2020 4:01 am
Operator : TMP
Sample : BF00478-BLK1
Misc : QBQV9060820B
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jun 09 12:56:44 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

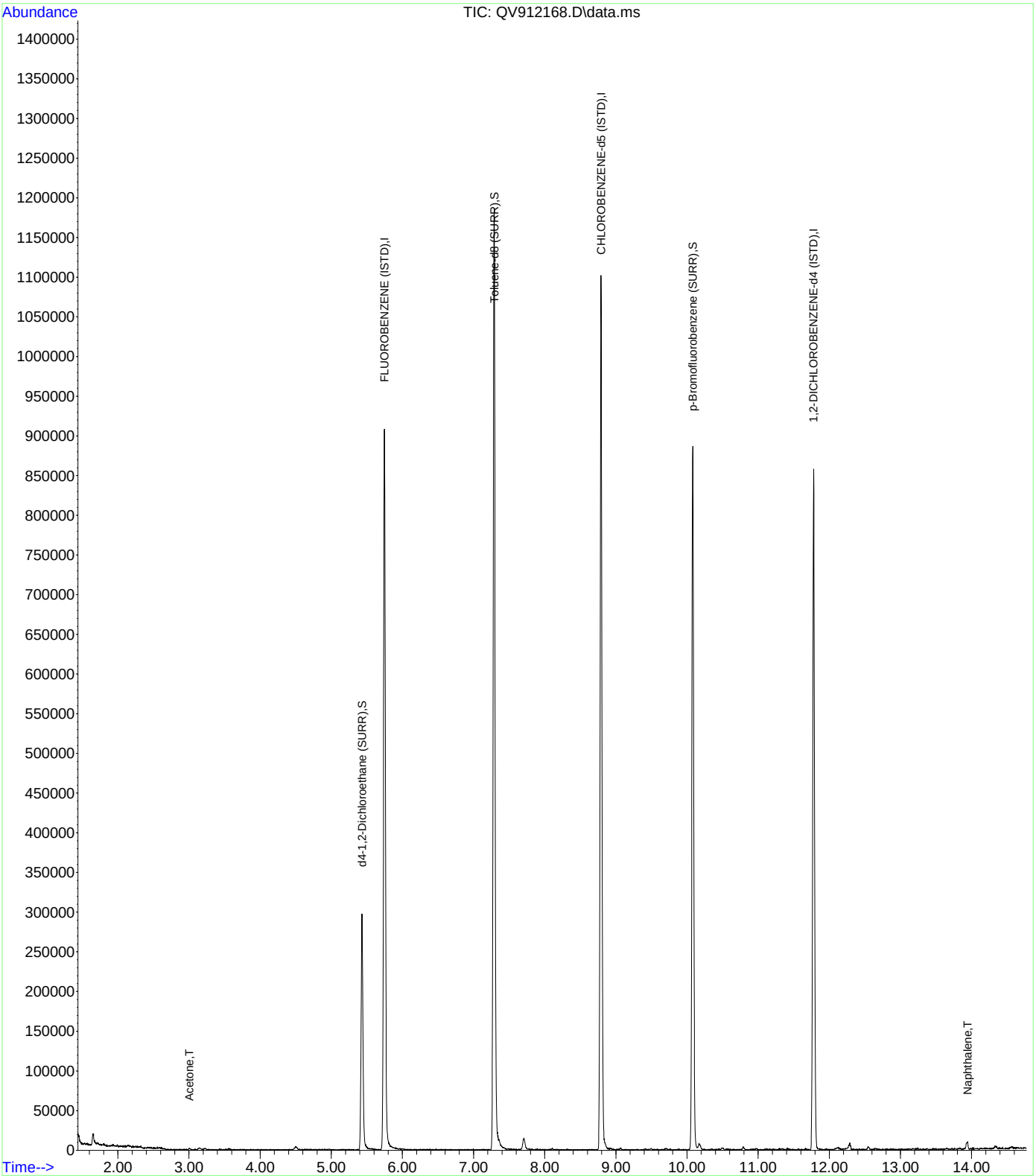
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.746	70	158749	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	8.792	117	624999	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	11.779	152	235477	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.430	65	219935	10.14	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 101.40%			
51) Toluene-d8 (SURR)	7.289	98	811414	10.02	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 100.20%			
70) p-Bromofluorobenzene (...	10.079	95	335167	10.18	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 101.80%			
Target Compounds						Qvalue
12) Acetone	3.003	43	1671	0.76	ppb	# 1
93) Naphthalene	13.941	128	7637	0.26	ppb	# 88

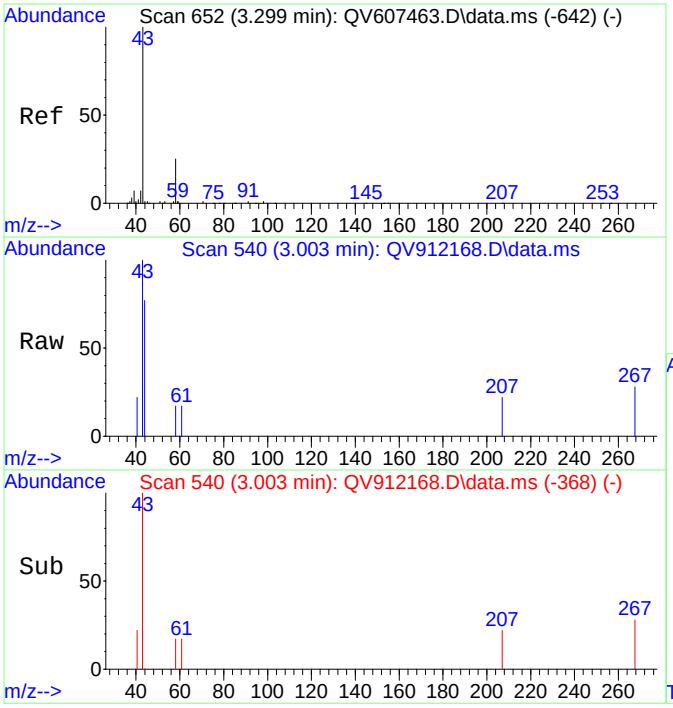
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912168.D
Acq On : 9 Jun 2020 4:01 am
Operator : TMP
Sample : BF00478-BLK1
Misc : QBQV9060820B
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jun 09 12:56:44 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

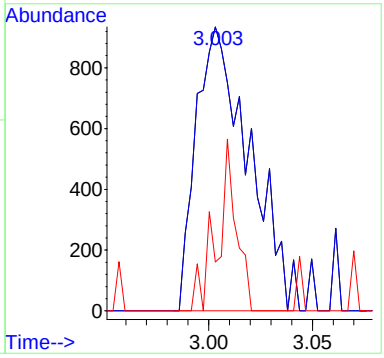


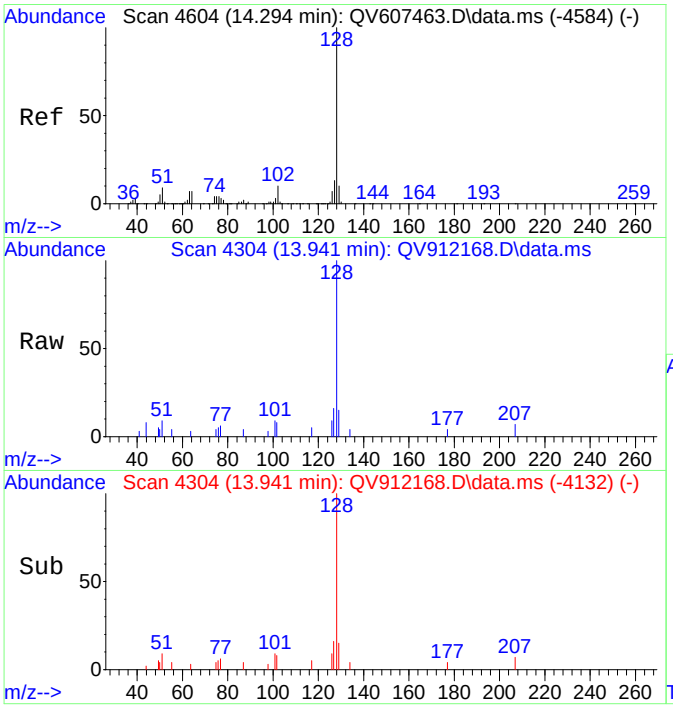


#12
Acetone
Concen: 0.76 ppb
RT: 3.003 min Scan# 540
Delta R.T. 0.000 min
Lab File: QV912168.D
Acq: 9 Jun 2020 4:01 am

Tgt Ion: 43 Resp: 1671

Ion	Ratio	Lower	Upper
43	100		
43	100.0	2.8	4.2#
58	21.7	0.4	1.1#

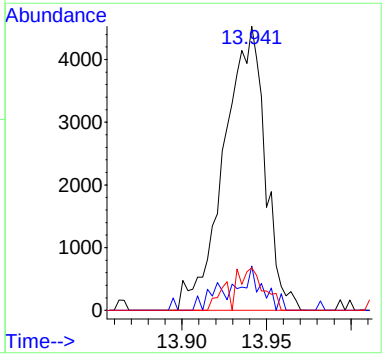




#93
Naphthalene
Concen: 0.26 ppb
RT: 13.941 min Scan# 4304
Delta R.T. 0.000 min
Lab File: QV912168.D
Acq: 9 Jun 2020 4:01 am

Tgt Ion:128 Resp: 7637

Ion	Ratio	Lower	Upper
128	100		
127	8.5	9.0	18.6#
129	9.3	3.9	8.1#



METHOD BLANK RAW DATA

SDG: 20F0067
CLASS: VOA
METHOD: EPA 8260C

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00479-BLK1	File ID:	QV619467.D
Prepared:	06/08/20 06:30	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	06/08/20 13:55	Instrument:	QVOA6		
Batch:	BF00479	Sequence:	Y0F0932	Calibration:	YF00005

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
75-35-4	1,1-Dichloroethylene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00479-BLK1	File ID:	QV619467.D
Prepared:	06/08/20 06:30	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	06/08/20 13:55	Instrument:	QVOA6		
Batch:	BF00479	Sequence:	Y0F0932	Calibration:	YF00005

CAS NO.	COMPOUND	CONC. (ug/L)	Q
74-83-9	Bromomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
108-90-7	Chlorobenzene	0.50	U
75-00-3	Chloroethane	0.50	U
67-66-3	Chloroform	0.50	U
74-87-3	Chloromethane	0.50	U
156-59-2	cis-1,2-Dichloroethylene	0.32	J
10061-01-5	cis-1,3-Dichloropropylene	0.50	U
110-82-7	Cyclohexane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
75-71-8	Dichlorodifluoromethane	0.50	U
100-41-4	Ethyl Benzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	2.0	U
104-51-8	n-Butylbenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	p- & m- Xylenes	1.0	U
99-87-6	p-Isopropyltoluene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
100-42-5	Styrene	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1.0	U
98-06-6	tert-Butylbenzene	0.50	U
127-18-4	Tetrachloroethylene	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00479-BLK1	File ID:	QV619467.D
Prepared:	06/08/20 06:30	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	06/08/20 13:55	Instrument:	QVOA6		
Batch:	BF00479	Sequence:	Y0F0932	Calibration:	YF00005

CAS NO.	COMPOUND	CONC. (ug/L)	Q
108-88-3	Toluene	0.50	U
156-60-5	trans-1,2-Dichloroethylene	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	0.50	U
79-01-6	Trichloroethylene	0.23	J
75-69-4	Trichlorofluoromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
1330-20-7	Xylenes, Total	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.1	101	69 - 130	
SURR: Toluene-d8	10.0	9.66	96.6	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.22	92.2	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	47871	6.125	52499	6.131	
ISTD: Chlorobenzene-d5	176844	9.183	192611	9.186	
ISTD: 1,2-Dichlorobenzene-d4	78220	12.163	87449	12.163	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060820A\
Data File : QV619467.D
Acq On : 8 Jun 2020 1:55 pm
InstName : QVOA6
Operator : TMP
Sample : BF00479-BLK1
Misc : QBQV6060820A
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 09 15:02:09 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue May 19 10:50:37 2020
Response via : Initial Calibration

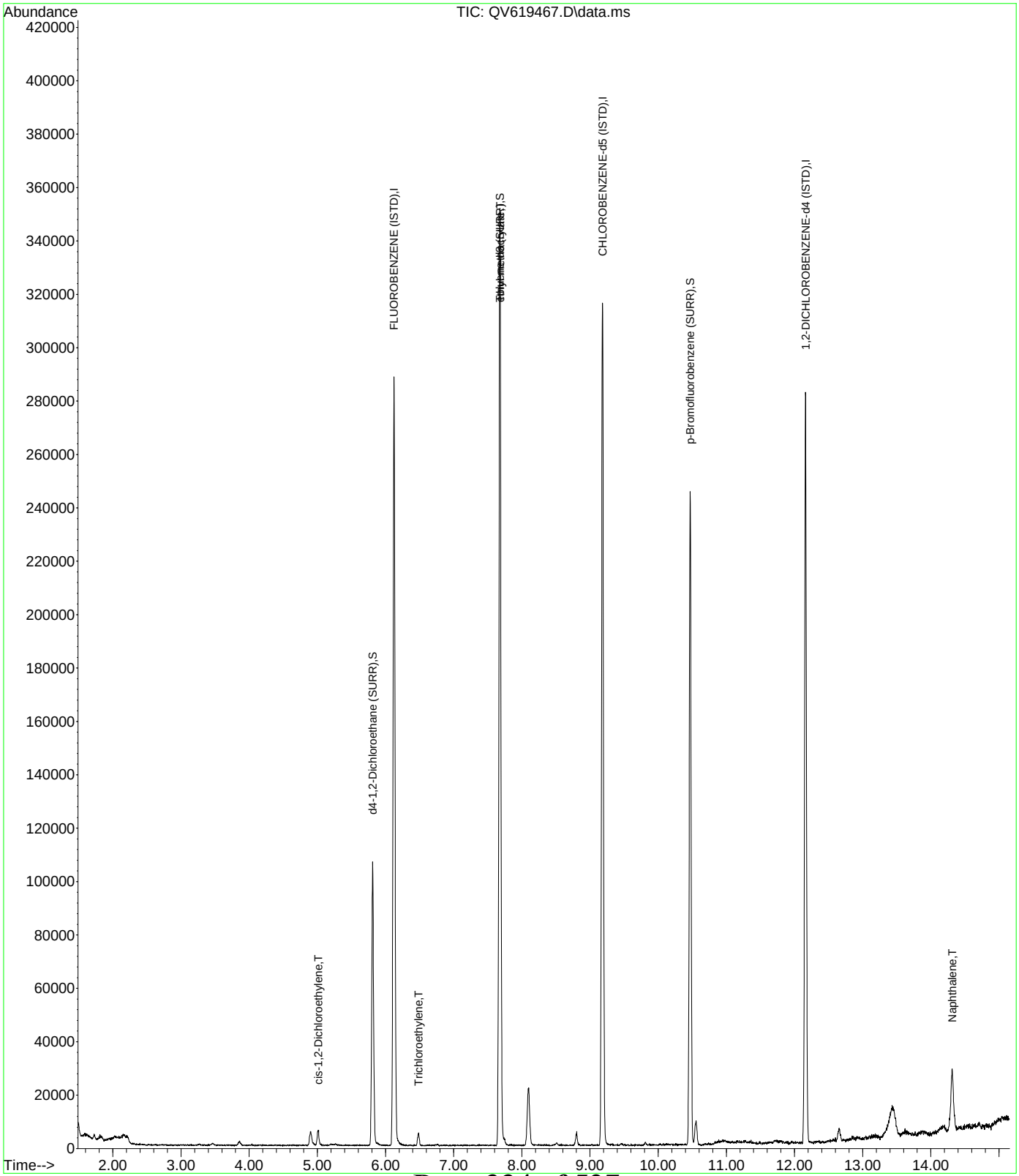
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.125	70	47871	10.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	9.183	117	176844	10.00	ppb	0.00
70) 1,2-DICHLOROBENZENE-d4...	12.163	152	78220	10.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.811	65	66522	10.07	ppb	0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 100.70%			
53) Toluene-d8 (SURR)	7.678	98	238485	9.66	ppb	0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 96.60%			
73) p-Bromofluorobenzene (...	10.468	95	81525	9.22	ppb	0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 92.20%			
Target Compounds						Qvalue
26) cis-1,2-Dichloroethylene	5.013	61	3405	0.32	ppb	# 75
42) Trichloroethylene	6.484	95	1603	0.23	ppb	90
56) ethyl methacrylate	7.681	69	780	0.11	ppb	# 100
98) Naphthalene	14.314	128	7073	0.47	ppb	# 90

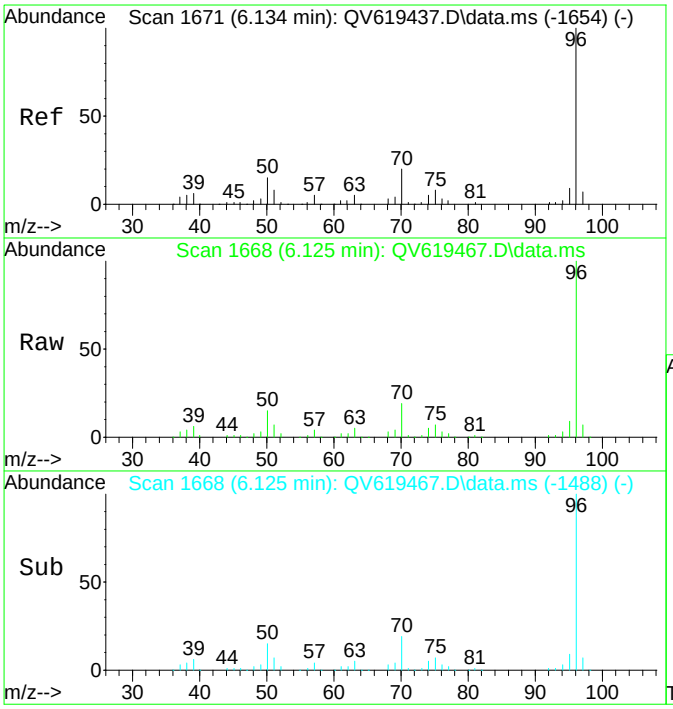
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060820A\
Data File : QV619467.D
Acq On : 8 Jun 2020 1:55 pm
InstName : QVOA6
Operator : TMP
Sample : BF00479-BLK1
Misc : QBQV6060820A
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 09 15:02:09 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue May 19 10:50:37 2020
Response via : Initial Calibration

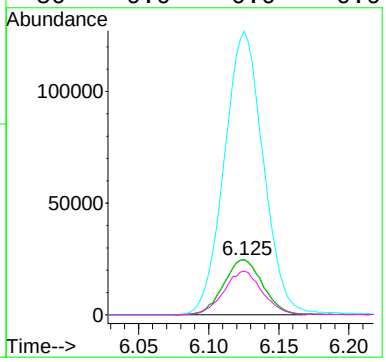


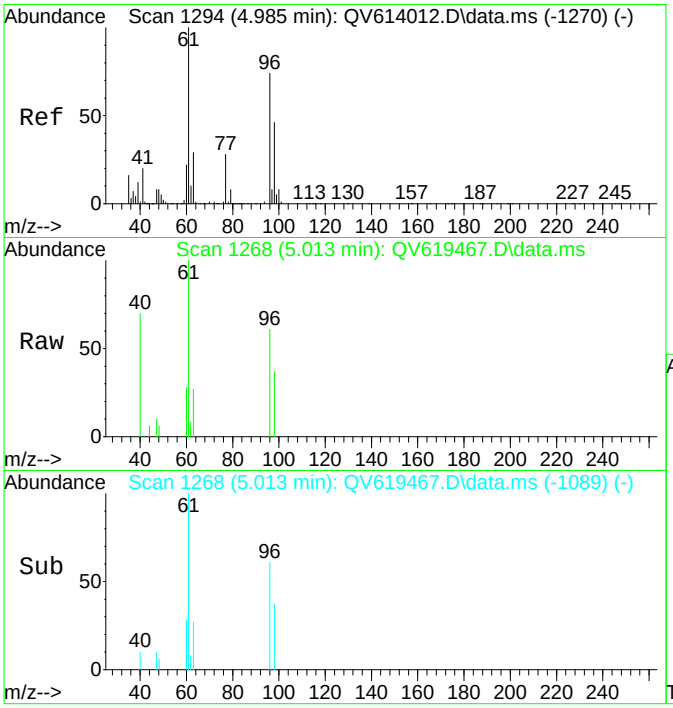


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 6.125 min Scan# 1668
Delta R.T. 0.000 min
Lab File: QV619467.D
Acq: 8 Jun 2020 1:55 pm

Tgt Ion: 70 Resp: 47871

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	512.8	341.1	708.3
50	0.0	0.0	0.0

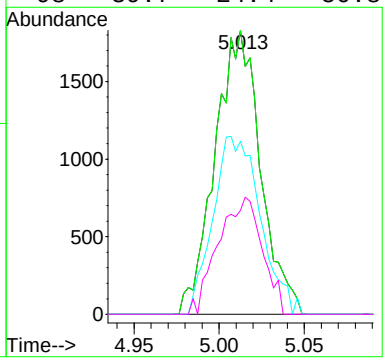


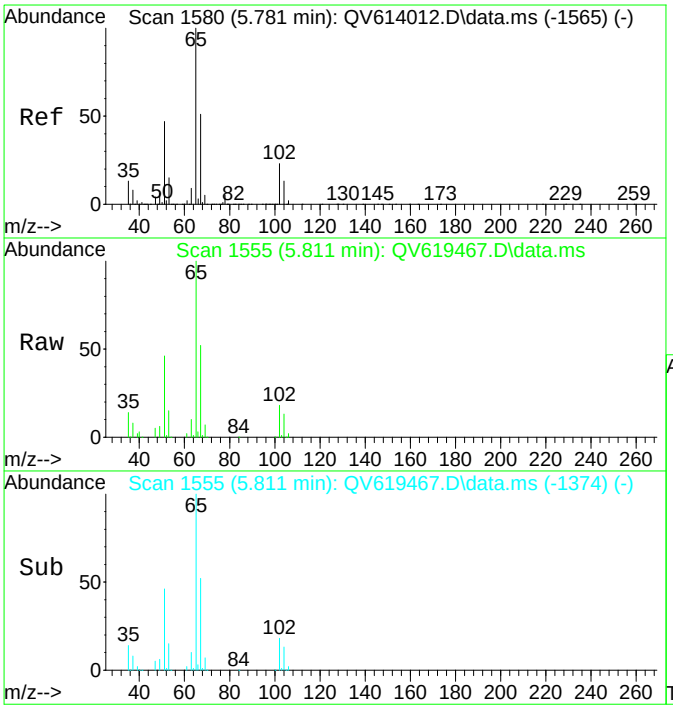


#26
cis-1,2-Dichloroethylene
Concen: 0.32 ppb
RT: 5.013 min Scan# 1268
Delta R.T. -0.002 min
Lab File: QV619467.D
Acq: 8 Jun 2020 1:55 pm

Tgt Ion: 61 Resp: 3405

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	0.0	39.2	81.4#
98	39.7	24.4	50.8

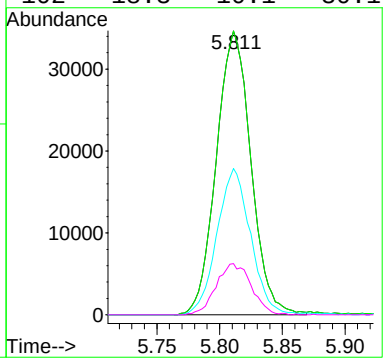


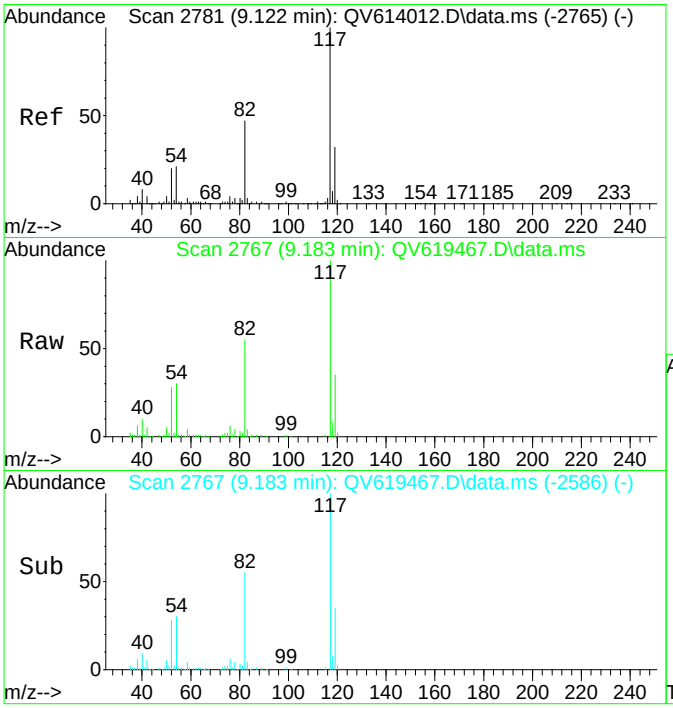


#35
d4-1,2-Dichloroethane (SURR)
Concen: 10.07 ppb
RT: 5.811 min Scan# 1555
Delta R.T. 0.003 min
Lab File: QV619467.D
Acq: 8 Jun 2020 1:55 pm

Tgt Ion: 65 Resp: 66522

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	50.1	34.0	70.6
102	18.3	10.1	30.1

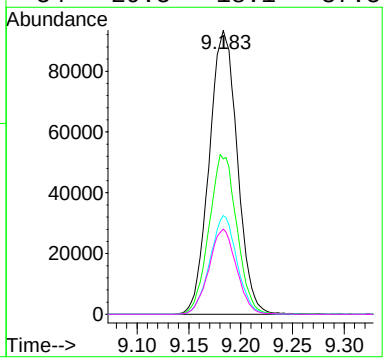


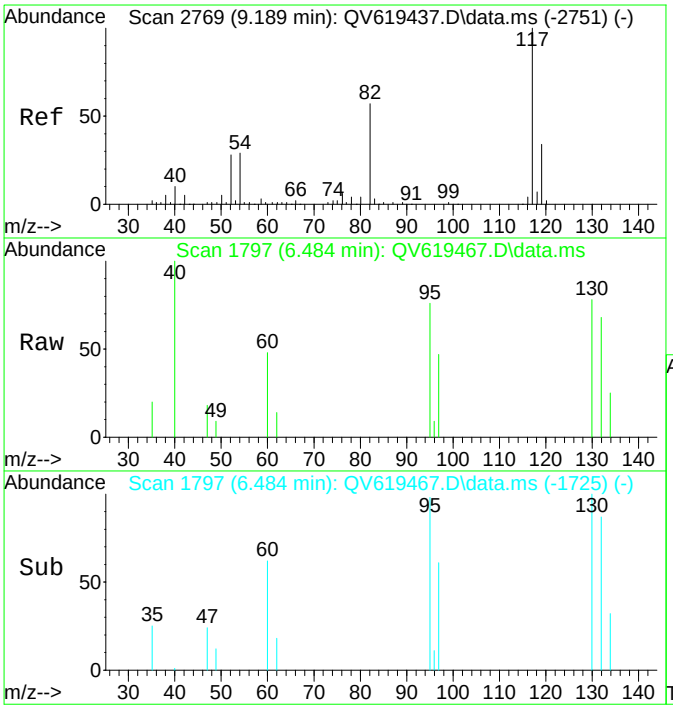


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 9.183 min Scan# 2767
Delta R.T. 0.003 min
Lab File: QV619467.D
Acq: 8 Jun 2020 1:55 pm

Tgt Ion:117 Resp: 176844

Ion	Ratio	Lower	Upper
117	100		
82	55.5	34.5	71.7
119	33.5	20.9	43.3
54	29.5	18.1	37.5

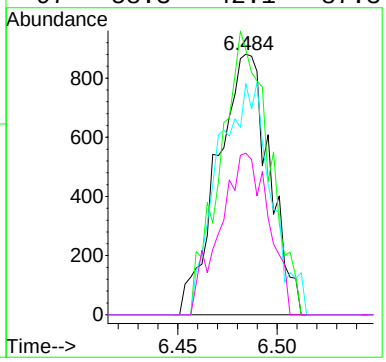


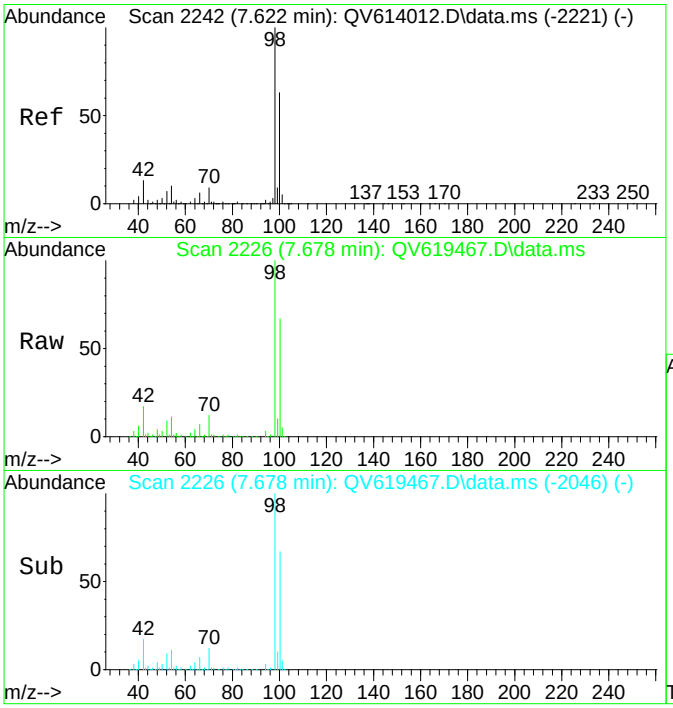


#42
Trichloroethylene
Concen: 0.23 ppb
RT: 6.484 min Scan# 1797
Delta R.T. 0.000 min
Lab File: QV619467.D
Acq: 8 Jun 2020 1:55 pm

Tgt Ion: 95 Resp: 1603

Ion	Ratio	Lower	Upper
95	100		
130	101.6	70.0	145.4
132	91.0	69.6	144.6
97	58.3	42.1	87.3

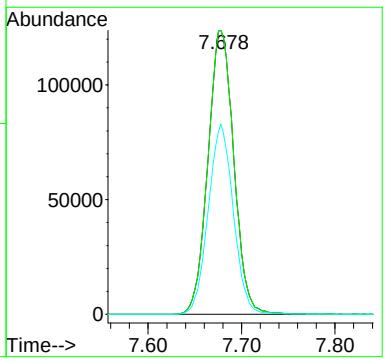


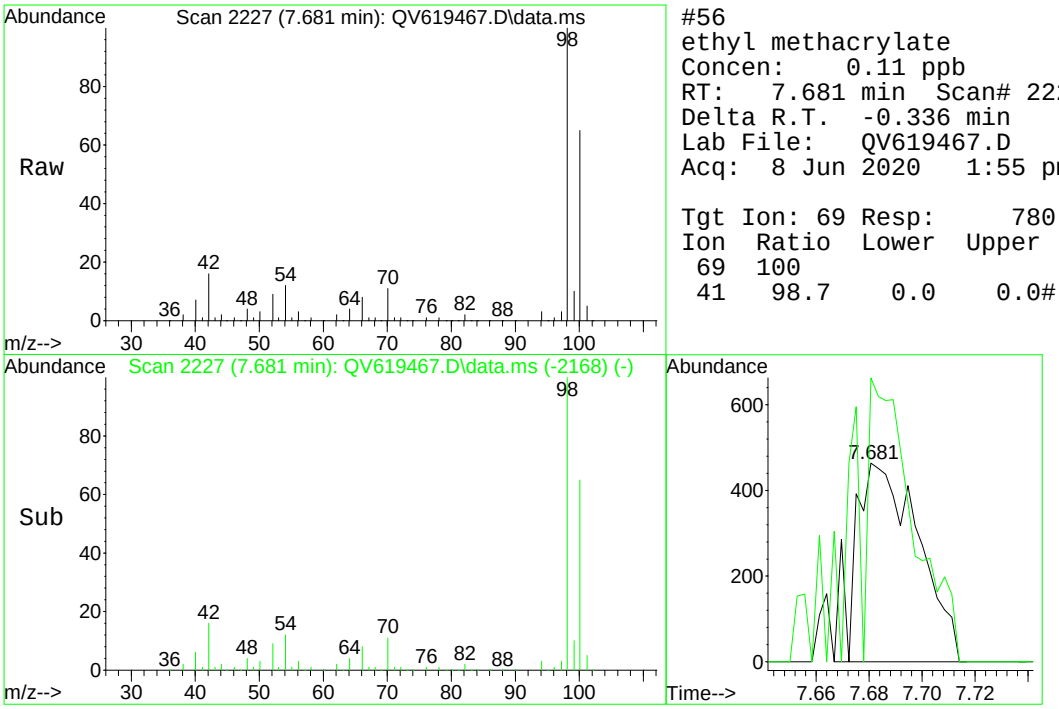


#53
Toluene-d8 (SURR)
Concen: 9.66 ppb
RT: 7.678 min Scan# 2226
Delta R.T. -0.000 min
Lab File: QV619467.D
Acq: 8 Jun 2020 1:55 pm

Tgt Ion: 98 Resp: 238485

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	64.6	44.2	91.8

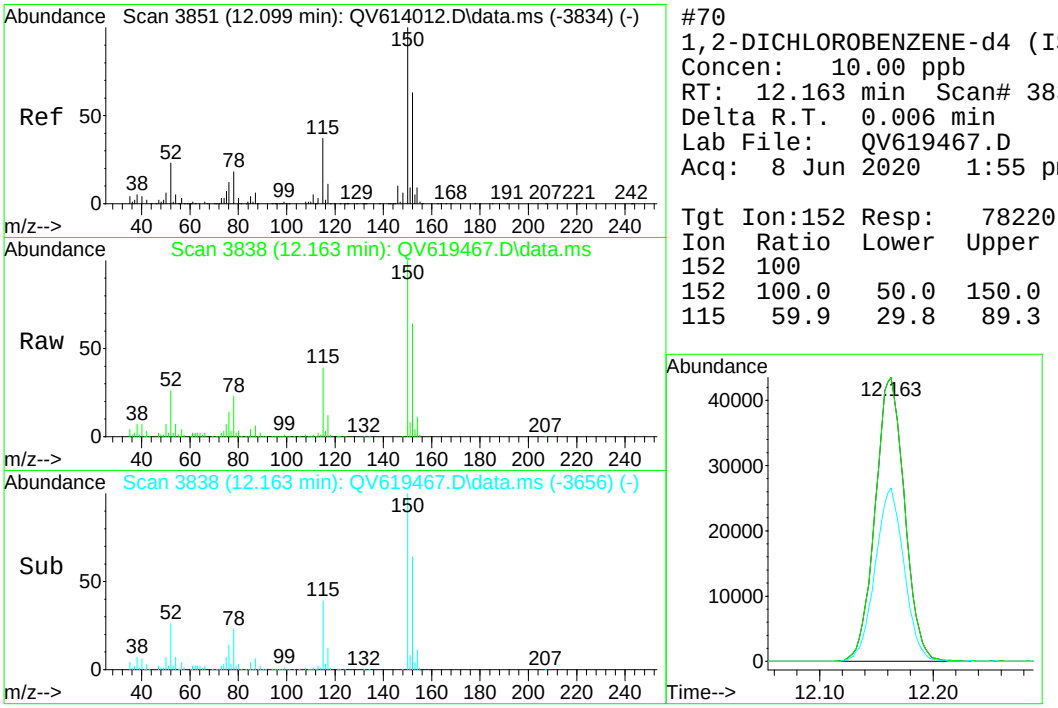




#56
ethyl methacrylate
Concen: 0.11 ppb
RT: 7.681 min Scan# 2227
Delta R.T. -0.336 min
Lab File: QV619467.D
Acq: 8 Jun 2020 1:55 pm

Tgt Ion: 69 Resp: 780

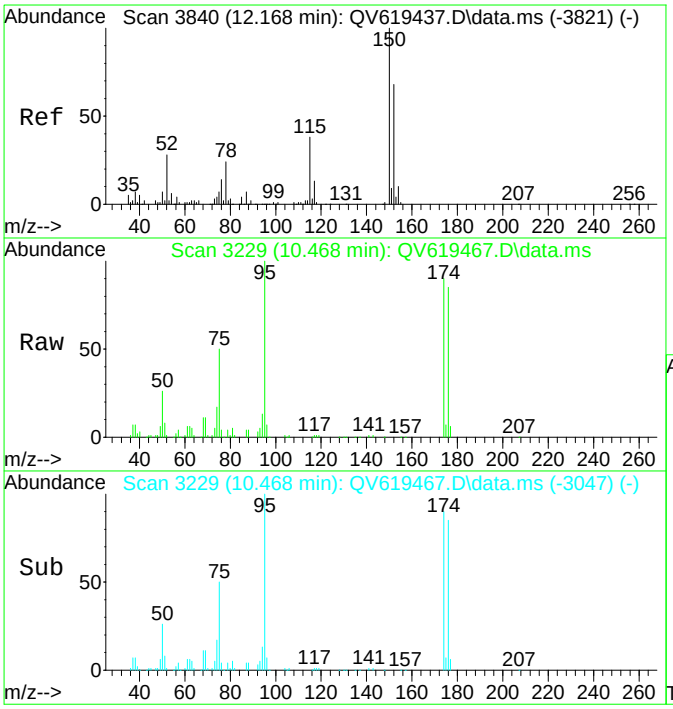
Ion	Ratio	Lower	Upper
69	100		
41	98.7	0.0	0.0#



#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 12.163 min Scan# 3838
Delta R.T. 0.006 min
Lab File: QV619467.D
Acq: 8 Jun 2020 1:55 pm

Tgt Ion:152 Resp: 78220

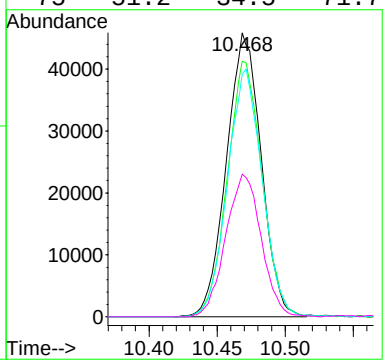
Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	59.9	29.8	89.3

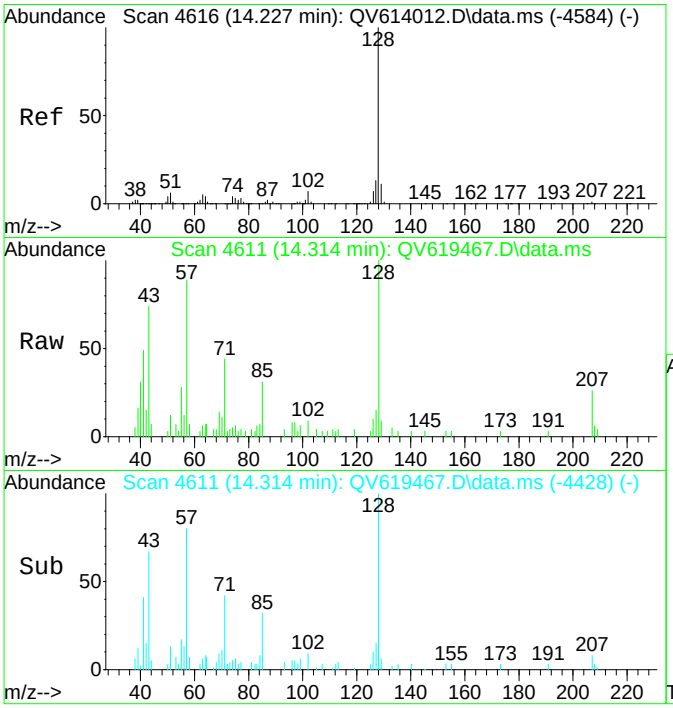


#73
p-Bromofluorobenzene (SURR)
Concen: 9.22 ppb
RT: 10.468 min Scan# 3229
Delta R.T. 0.005 min
Lab File: QV619467.D
Acq: 8 Jun 2020 1:55 pm

Tgt Ion: 95 Resp: 81525

Ion	Ratio	Lower	Upper
95	100		
174	89.9	62.5	129.9
176	87.2	60.7	126.1
75	51.2	34.5	71.7

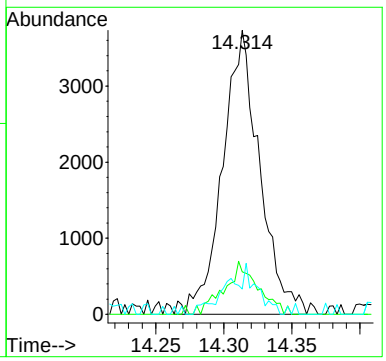




#98
Naphthalene
Concen: 0.47 ppb
RT: 14.314 min Scan# 4611
Delta R.T. 0.009 min
Lab File: QV619467.D
Acq: 8 Jun 2020 1:55 pm

Tgt Ion:128 Resp: 7073

Ion	Ratio	Lower	Upper
128	100		
127	16.8	8.9	18.5
129	6.2	7.3	15.3#



LCS RAW DATA

SDG: 20F0067
CLASS: VOA
METHOD: EPA 8260C

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060520A\
Data File : QV619425.D
Acq On : 5 Jun 2020 12:54 pm
InstName : QVOA6
Operator : TMP
Sample : BF00412-BS1
Misc : QBQV6060520A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 08 14:05:43 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue May 19 10:50:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.131	70	51351	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	9.186	117	188864	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	12.163	152	83989	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.817	65	69687	9.83	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 98.30%				
53) Toluene-d8 (SURR)	7.683	98	257530	9.77	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 97.70%				
73) p-Bromofluorobenzene (...	10.471	95	88879	9.36	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 93.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.601	85	16743m	4.04	ppb		
3) Chloromethane	1.788	50	61720	8.64	ppb	#	47
4) Vinyl Chloride	1.916	62	49426m	7.94	ppb		
5) Bromomethane	2.275	94	4318	1.08	ppb		65
6) Chloroethane	2.411	64	35677	8.71	ppb		91
7) Trichlorofluoromethane	2.695	101	68426	8.25	ppb		98
9) Freon-113	3.265	101	47160	9.14	ppb		99
10) 1,1-Dichloroethylene	3.246	61	87359	8.85	ppb		98
11) Acrolein	3.129	56	810	1.52	ppb	#	83
12) Acetone	3.271	43	12746	8.57	ppb		99
13) Iodomethane	3.393	142	5684	0.75	ppb		100
14) Allyl Chloride	3.630	76	26885	8.72	ppb	#	100
15) Methyl Acetate	3.613	43	25657	8.51	ppb		99
16) Carbon disulfide	3.477	76	109987	8.09	ppb		100
17) tert-Butyl Alcohol (TBA)	3.855	59	27228	51.04	ppb	#	1
18) Methylene Chloride	3.758	49	92487	9.67	ppb		95
19) Acrylonitrile	3.966	53	13076	9.72	ppb	#	68
20) trans-1,2-Dichloroethy...	4.047	61	89129	9.33	ppb	#	90
21) tert-Butyl Methyl Ethe...	4.033	73	145406	9.31	ppb	#	88
22) 1,1-Dichloroethane	4.470	63	112169	8.93	ppb	#	88
23) Vinyl Acetate	4.467	43	68862	8.68	ppb	#	100
24) Diisopropyl ether (DIPE)	4.514	45	233256	8.84	ppb	#	94
25) Ethyl-tert-Butyl ether...	4.862	59	220131	9.38	ppb	#	100
26) cis-1,2-Dichloroethylene	5.018	61	108306	9.55	ppb		99
27) 2-Butanone	4.985	72	4952	9.44	ppb	#	95
28) 2,2-Dichloropropane	5.024	77	78382	11.74	ppb	#	65
29) Tetrahydrofuran	5.260	42	13828	8.95	ppb	#	52
30) Bromochloromethane	5.249	49	50982	8.54	ppb	#	77
31) Chloroform	5.346	83	106801	9.28	ppb	#	84
32) 1,1,1-Trichloroethane	5.511	97	93898	8.82	ppb	#	82
33) Cyclohexane	5.591	56	86374	7.60	ppb		95
34) 1,1-Dichloropropylene	5.664	75	75356	8.71	ppb		96
36) Carbon Tetrachloride	5.666	117	74261	8.15	ppb	#	52
37) tert-Amyl alcohol (TAA)	5.842	59	41218	92.24	ppb		99
38) 1,2-Dichloroethane	5.892	62	76707	8.79	ppb		99
39) Benzene	5.844	78	220792	9.12	ppb	#	88
40) tert-Amyl methyl ether...	5.972	73	160764	9.36	ppb	#	100
42) Trichloroethylene	6.487	95	62312	8.30	ppb		94
43) Methyl Cyclohexane	6.729	83	75265	7.00	ppb	#	73
44) Methyl Methacrylate	6.768	69	29168	6.96	ppb	#	21
45) Dibromomethane	6.815	93	29978	8.27	ppb		98
46) Bromodichloromethane	6.985	83	77701	8.09	ppb		100
47) 1,2-Dichloropropane	6.732	63	65147	8.23	ppb	#	100
48) 1,4-Dioxane	6.801	88	2115	111.75	ppb		93
49) 2-nitropropane	7.163	43	11344	6.22	ppb	#	100
51) cis-1,3-Dichloropropene	7.414	75	87371	8.24	ppb		98
52) 4-Methyl-2-Pentanone	7.533	43	51870	8.38	ppb		94
54) Toluene	7.750	91	251914	8.61	ppb		99

Data Path : C:\msdchem\1\DATA\060520A\
Data File : QV619425.D
Acq On : 5 Jun 2020 12:54 pm
InstName : QVOA6
Operator : TMP
Sample : BF00412-BS1
Misc : QBQV6060520A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 08 14:05:43 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue May 19 10:50:37 2020
Response via : Initial Calibration

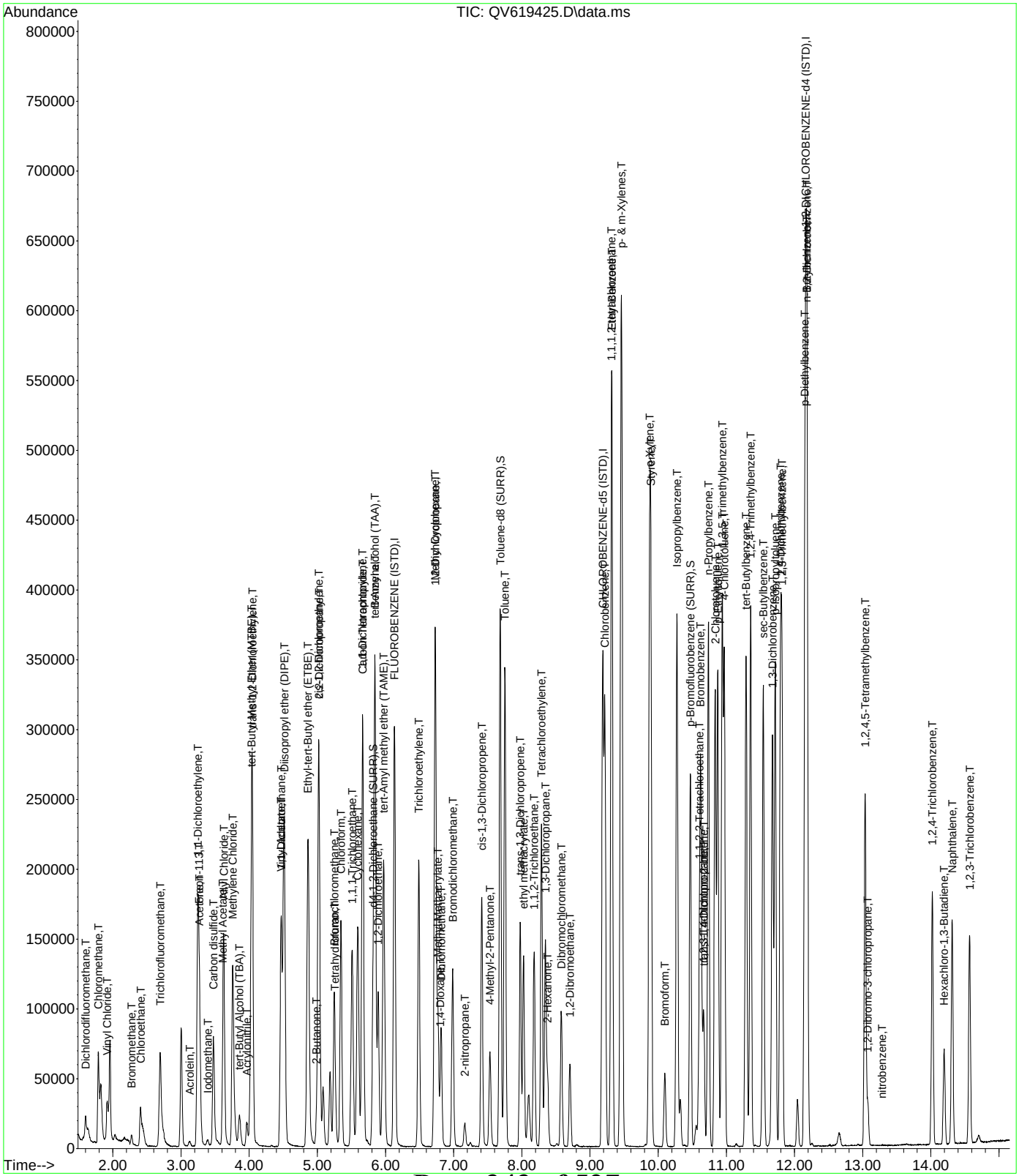
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
55) trans-1,3-Dichloropropene	7.976	75	72177	8.03	ppb		99
56) ethyl methacrylate	8.026	69	62237	8.46	ppb	#	100
57) 1,1,2-Trichloroethane	8.179	97	43351	8.67	ppb		99
58) 1,3-Dichloropropane	8.346	76	71445	8.51	ppb	#	89
59) Tetrachloroethylene	8.290	166	67619	8.79	ppb	#	77
60) 2-Hexanone	8.376	43	36397	8.85	ppb	#	18
61) Dibromochloromethane	8.579	129	49856	8.09	ppb		97
62) 1,2-Dibromoethane	8.705	107	42791	8.65	ppb		98
63) Chlorobenzene	9.216	112	163027	8.94	ppb		98
64) 1,1,1,2-tetrachloroethane	9.314	131	58374	8.44	ppb		97
65) Ethyl Benzene	9.322	91	286151	9.14	ppb		100
66) p- & m-Xylenes	9.461	91	443359	18.19	ppb		98
67) o-Xylene	9.873	91	225876	9.05	ppb		100
68) Styrene	9.893	104	177823	9.39	ppb		96
69) Bromoform	10.098	173	26356	7.26	ppb		99
71) p-Ethyltoluene	10.875	105	233945	8.89	ppb	#	82
72) Isopropylbenzene	10.274	105	276445	8.58	ppb		97
74) 1,1,2,2-Tetrachloroethane	10.605	83	51227	8.52	ppb	#	99
75) Bromobenzene	10.621	77	105775	7.64	ppb		95
76) trans-1,4-Dichloro-2-b...	10.669	75	51908	7.08	ppb	#	61
77) 1,2,3-Trichloropropane	10.666	110	14988	8.80	ppb	#	1
78) n-Propylbenzene	10.738	91	318294	8.76	ppb		98
79) 2-Chlorotoluene	10.838	91	212520	8.51	ppb		100
80) 4-Chlorotoluene	10.969	91	221253	8.58	ppb		97
81) 1,3,5-Trimethylbenzene	10.939	105	225110	9.12	ppb	#	66
82) tert-Butylbenzene	11.289	119	225401m	8.71	ppb		
83) 1,2,4-Trimethylbenzene	11.356	105	225410	9.14	ppb		99
84) sec-Butylbenzene	11.542	105	256176	9.95	ppb		98
85) 1,3-Dichlorobenzene	11.676	146	127876	8.92	ppb		98
86) p-Isopropyltoluene	11.718	119	231791	9.74	ppb		98
87) 1,4-Dichlorobenzene	11.796	146	128805	8.94	ppb		97
88) 1,2,3-Trimethylbenzene	11.815	105	194504	8.56	ppb		99
89) p-Diethylbenzene	12.152	105	102064	9.71	ppb	#	98
90) 1,2-Dichlorobenzene	12.185	146	119352	9.10	ppb		99
91) n-Butylbenzene	12.177	91	207637	9.59	ppb		98
93) 1,2-Dibromo-3-chloropr...	13.073	75	7758	7.50	ppb		93
94) 1,2,4,5-Tetramethylben...	13.036	119	156737	7.96	ppb		98
95) nitrobenzene	13.284	77	150m	1.43	ppb		
96) 1,2,4-Trichlorobenzene	14.021	180	60319	8.90	ppb		98
97) Hexachloro-1,3-Butadiene	14.194	225	15068	10.34	ppb		99
98) Naphthalene	14.314	128	137548	8.53	ppb		100
99) 1,2,3-Trichlorobenzene	14.569	180	50292	8.79	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060520A\
Data File : QV619425.D
Acq On : 5 Jun 2020 12:54 pm
InstName : QVOA6
Operator : TMP
Sample : BF00412-BS1
Misc : QBQV6060520A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 08 14:05:43 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue May 19 10:50:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060520A\
Data File : QV619426.D
Acq On : 5 Jun 2020 1:49 pm
InstName : QVOA6
Operator : TMP
Sample : BF00412-BSD1
Misc : QBQV6060520A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 16:03:02 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue May 19 10:50:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.134	70	53298	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	9.183	117	197390	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	12.163	152	88660	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.817	65	73220	9.95	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 99.50%				
53) Toluene-d8 (SURR)	7.681	98	265892	9.65	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 96.50%				
73) p-Bromofluorobenzene (...	10.471	95	93846	9.36	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 93.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.602	85	35844	8.32	ppb	#	1
3) Chloromethane	1.788	50	73043	9.85	ppb	#	38
4) Vinyl Chloride	1.913	62	84698	13.11	ppb	#	43
5) Bromomethane	2.272	94	6344m	1.53	ppb		
6) Chloroethane	2.406	64	54097	12.72	ppb		90
7) Trichlorofluoromethane	2.695	101	95014	11.04	ppb		99
9) Freon-113	3.268	101	61460	11.47	ppb		100
10) 1,1-Dichloroethylene	3.243	61	110716	10.81	ppb		99
11) Acrolein	3.129	56	5650	10.21	ppb	#	83
12) Acetone	3.271	43	13061	8.46	ppb	#	96
13) Iodomethane	3.393	142	7673	0.98	ppb		99
14) Allyl Chloride	3.621	76	31315	9.78	ppb	#	100
15) Methyl Acetate	3.610	43	30004	9.58	ppb		99
16) Carbon disulfide	3.474	76	143250	10.16	ppb		100
17) tert-Butyl Alcohol (TBA)	3.855	59	27419	49.52	ppb	#	1
18) Methylene Chloride	3.758	49	100877	10.17	ppb		96
19) Acrylonitrile	3.966	53	13199	9.45	ppb	#	45
20) trans-1,2-Dichloroethy...	4.044	61	101730	10.26	ppb	#	90
21) tert-Butyl Methyl Ethe...	4.033	73	145997	9.00	ppb	#	100
22) 1,1-Dichloroethane	4.467	63	121525	9.33	ppb		100
23) Vinyl Acetate	4.467	43	88330	10.72	ppb	#	100
24) Diisopropyl ether (DIPE)	4.515	45	239305	8.74	ppb	#	94
25) Ethyl-tert-Butyl ether...	4.865	59	223368	9.17	ppb	#	85
26) cis-1,2-Dichloroethylene	5.018	61	117189	9.95	ppb		99
27) 2-Butanone	4.993	72	4872	8.95	ppb	#	95
28) 2,2-Dichloropropane	5.024	77	99640	14.38	ppb	#	65
29) Tetrahydrofuran	5.263	42	13711	8.55	ppb	#	53
30) Bromochloromethane	5.249	49	54106	8.74	ppb		96
31) Chloroform	5.346	83	113250	9.48	ppb	#	84
32) 1,1,1-Trichloroethane	5.508	97	106699	9.66	ppb		100
33) Cyclohexane	5.594	56	130058	11.02	ppb		95
34) 1,1-Dichloropropylene	5.661	75	86827	9.67	ppb		97
36) Carbon Tetrachloride	5.666	117	86548	9.15	ppb	#	53
37) tert-Amyl alcohol (TAA)	5.839	59	47494	102.40	ppb		99
38) 1,2-Dichloroethane	5.892	62	79850	8.81	ppb		99
39) Benzene	5.844	78	241633	9.62	ppb	#	63
40) tert-Amyl methyl ether...	5.972	73	161796	9.08	ppb	#	100
42) Trichloroethylene	6.490	95	68109	8.68	ppb		95
43) Methyl Cyclohexane	6.726	83	104920	9.34	ppb	#	80
44) Methyl Methacrylate	6.765	69	28747	6.56	ppb	#	28
45) Dibromomethane	6.815	93	30797	8.13	ppb	#	60
46) Bromodichloromethane	6.985	83	80536	8.02	ppb		100
47) 1,2-Dichloropropane	6.729	63	69099	8.35	ppb	#	83
48) 1,4-Dioxane	6.793	88	5722	289.26	ppb	#	76
49) 2-nitropropane	7.163	43	10656	5.59	ppb	#	100
51) cis-1,3-Dichloropropene	7.411	75	92345	8.33	ppb		98
52) 4-Methyl-2-Pentanone	7.528	43	50817	7.85	ppb		95
54) Toluene	7.750	91	266994	8.73	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060520A\
Data File : QV619426.D
Acq On : 5 Jun 2020 1:49 pm
InstName : QVOA6
Operator : TMP
Sample : BF00412-BSD1
Misc : QBQV6060520A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 16:03:02 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue May 19 10:50:37 2020
Response via : Initial Calibration

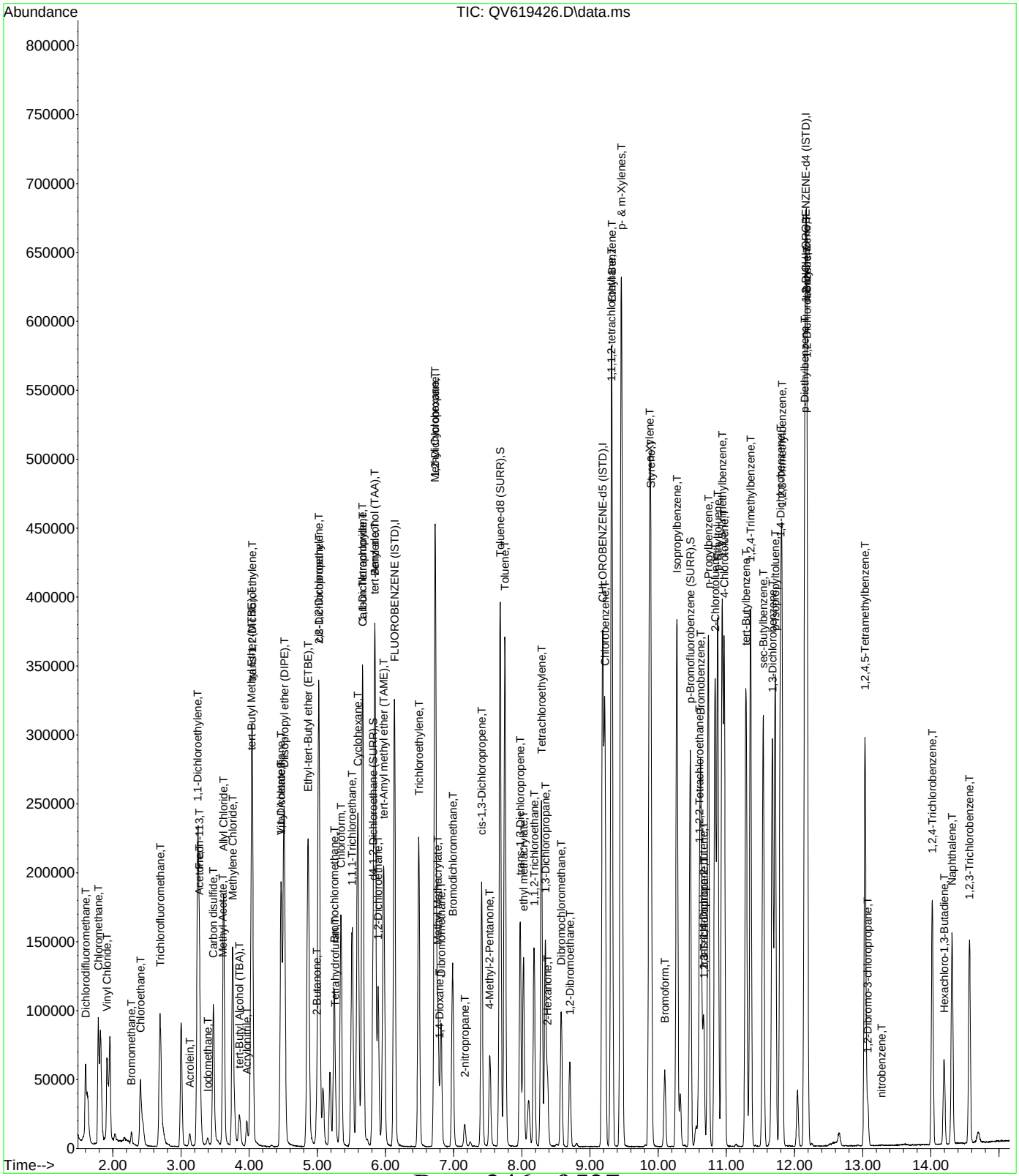
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
55) trans-1,3-Dichloropropene	7.976	75	74915	7.98	ppb		99
56) ethyl methacrylate	8.026	69	62072	8.07	ppb	#	100
57) 1,1,2-Trichloroethane	8.182	97	43610	8.34	ppb		99
58) 1,3-Dichloropropane	8.346	76	73179	8.34	ppb	#	89
59) Tetrachloroethylene	8.287	166	73364	9.12	ppb	#	77
60) 2-Hexanone	8.376	43	35315	8.22	ppb	#	13
61) Dibromochloromethane	8.577	129	50833	7.89	ppb		96
62) 1,2-Dibromoethane	8.705	107	44288	8.57	ppb		99
63) Chlorobenzene	9.219	112	170165	8.93	ppb		98
64) 1,1,1,2-tetrachloroethane	9.311	131	60016	8.31	ppb		98
65) Ethyl Benzene	9.319	91	297288	9.09	ppb		100
66) p- & m-Xylenes	9.461	91	460203	18.06	ppb		98
67) o-Xylene	9.873	91	233406	8.94	ppb		100
68) Styrene	9.893	104	181211	9.16	ppb		96
69) Bromoform	10.096	173	27098	7.14	ppb	#	79
71) p-Ethyltoluene	10.872	105	268922	9.68	ppb	#	82
72) Isopropylbenzene	10.274	105	280580	8.25	ppb		98
74) 1,1,2,2-Tetrachloroethane	10.605	83	51721	8.15	ppb	#	69
75) Bromobenzene	10.624	77	110326	7.55	ppb		95
76) trans-1,4-Dichloro-2-b...	10.666	75	53319	6.89	ppb	#	62
77) 1,2,3-Trichloropropane	10.672	110	14967	8.33	ppb	#	1
78) n-Propylbenzene	10.736	91	318761	8.31	ppb		98
79) 2-Chlorotoluene	10.836	91	222618	8.45	ppb		100
80) 4-Chlorotoluene	10.969	91	227951	8.37	ppb		97
81) 1,3,5-Trimethylbenzene	10.939	105	226449	8.69	ppb	#	65
82) tert-Butylbenzene	11.289	119	189571	6.94	ppb		98
83) 1,2,4-Trimethylbenzene	11.356	105	227856	8.75	ppb		99
84) sec-Butylbenzene	11.543	105	242540	8.92	ppb		98
85) 1,3-Dichlorobenzene	11.676	146	131038	8.66	ppb		98
86) p-Isopropyltoluene	11.718	119	223770	8.90	ppb		98
87) 1,4-Dichlorobenzene	11.796	146	132281	8.69	ppb		97
88) 1,2,3-Trimethylbenzene	11.815	105	228923	9.54	ppb		99
89) p-Diethylbenzene	12.149	105	109351	9.85	ppb	#	93
90) 1,2-Dichlorobenzene	12.185	146	120679	8.72	ppb	#	87
91) n-Butylbenzene	12.177	91	201376	8.81	ppb	#	91
93) 1,2-Dibromo-3-chloropr...	13.073	75	7415	6.79	ppb		94
94) 1,2,4,5-Tetramethylben...	13.034	119	181102	8.71	ppb		98
95) nitrobenzene	13.276	77	200m	1.80	ppb		
96) 1,2,4-Trichlorobenzene	14.021	180	60385	8.44	ppb		97
97) Hexachloro-1,3-Butadiene	14.197	225	14056	9.14	ppb		98
98) Naphthalene	14.311	128	133314	7.83	ppb		99
99) 1,2,3-Trichlorobenzene	14.564	180	50149	8.30	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060520A\
Data File : QV619426.D
Acq On : 5 Jun 2020 1:49 pm
InstName : QVOA6
Operator : TMP
Sample : BF00412-BSD1
Misc : QBQV6060520A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 16:03:02 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue May 19 10:50:37 2020
Response via : Initial Calibration



LCS RAW DATA

SDG: 20F0067
CLASS: VOA
METHOD: EPA 8260C

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912178.D
Acq On : 9 Jun 2020 8:50 am
Operator : TMP
Sample : BF00478-BS1
Misc : QBQV9060820B
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Jun 09 13:20:31 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.746	70	144131	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	8.789	117	593391	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.782	152	234705	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.430	65	200347	10.17	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 101.70%				
51) Toluene-d8 (SURR)	7.286	98	764801	9.95	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 99.50%				
70) p-Bromofluorobenzene (...	10.082	95	321203	9.79	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 97.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.544	85	128164	11.07	ppb	#	1
3) Chloromethane	1.722	50	68823	8.66	ppb	#	69
4) Vinyl Chloride	1.820	62	114659	10.39	ppb	#	98
5) Bromomethane	2.140	94	11569	8.14	ppb		97
6) Chloroethane	2.247	64	70588	12.66	ppb	#	20
7) Trichlorofluoromethane	2.497	101	239945	11.82	ppb	#	20
9) Freon-113	3.012	101	122890	10.65	ppb	#	1
10) 1,1-Dichloroethylene	2.994	61	206281	10.54	ppb	#	85
11) Acrolein	2.875	56	6394m	7.92	ppb		
12) Acetone	3.003	43	22064	11.08	ppb	#	1
13) Iodomethane	3.134	142	39155	3.08	ppb	#	72
14) Methyl Acetate	3.314	43	29755	7.78	ppb	#	1
15) Carbon disulfide	3.224	76	331736	10.81	ppb	#	20
16) tert-Butyl Alcohol (TBA)	3.538	59	39238	42.01	ppb	#	1
17) Methylene Chloride	3.453	49	152209	9.47	ppb	#	75
18) Acrylonitrile	3.730	53	3374	9.03	ppb	#	1
19) trans-1,2-Dichloroethy...	3.735	61	193045	10.42	ppb	#	83
20) tert-Butyl Methyl Ethe...	3.724	73	349148	9.76	ppb	#	94
21) 1,1-Dichloroethane	4.128	63	260622	10.14	ppb	#	99
22) Vinyl Acetate	4.119	43	94383	10.69	ppb	#	1
23) Diisopropyl ether (DIPE)	4.174	45	378027	9.28	ppb	#	52
24) Ethyl-tert-Butyl ether...	4.514	59	460124	9.56	ppb	#	99
25) cis-1,2-Dichloroethylene	4.654	61	209000	8.92	ppb	#	83
26) 2-Butanone	4.613	72	9137	9.68	ppb	#	1
27) 2,2-Dichloropropane	4.668	77	73775	3.18	ppb	#	93
28) Tetrahydrofuran	4.904	42	16056	9.02	ppb	#	1
29) Bromochloromethane	4.874	49	88649	9.53	ppb	#	47
30) Chloroform	4.967	83	297489	10.12	ppb	#	94
31) 1,1,1-Trichloroethane	5.145	97	313144	10.76	ppb	#	26
32) Cyclohexane	5.238	56	240717	4.71	ppb	#	75
33) 1,1-Dichloropropylene	5.293	75	205571	9.82	ppb	#	68
35) Carbon Tetrachloride	5.305	117	247320	10.12	ppb	#	99
36) tert-Amyl alcohol (TAA)	5.441	59	72168	97.49	ppb	#	1
37) 1,2-Dichloroethane	5.505	62	199027	9.90	ppb	#	98
38) Benzene	5.470	78	621672	10.97	ppb	#	94
39) tert-Amyl methyl ether...	5.598	73	378702	9.51	ppb	#	1
41) Trichloroethylene	6.104	95	162890	9.97	ppb	#	71
42) Methyl Cyclohexane	6.354	83	248973	10.10	ppb	#	54
43) Methyl Methacrylate	6.368	69	108955	9.15	ppb	#	98
44) Dibromomethane	6.418	93	67560	9.35	ppb	#	49
45) Bromodichloromethane	6.580	83	216407	9.67	ppb	#	95
46) 1,2-Dichloropropane	6.333	63	137780	9.57	ppb	#	94
47) 1,4-Dioxane	6.403	88	10058	221.23	ppb	#	86
49) cis-1,3-Dichloropropene	7.010	75	197276	7.96	ppb	#	55
50) 4-Methyl-2-Pentanone	7.124	43	67689	9.47	ppb	#	48
52) Toluene	7.359	91	651477	9.81	ppb		99
53) trans-1,3-Dichloropropene	7.568	75	167482	7.71	ppb	#	98

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912178.D
Acq On : 9 Jun 2020 8:50 am
Operator : TMP
Sample : BF00478-BS1
Misc : QBQV9060820B
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Jun 09 13:20:31 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

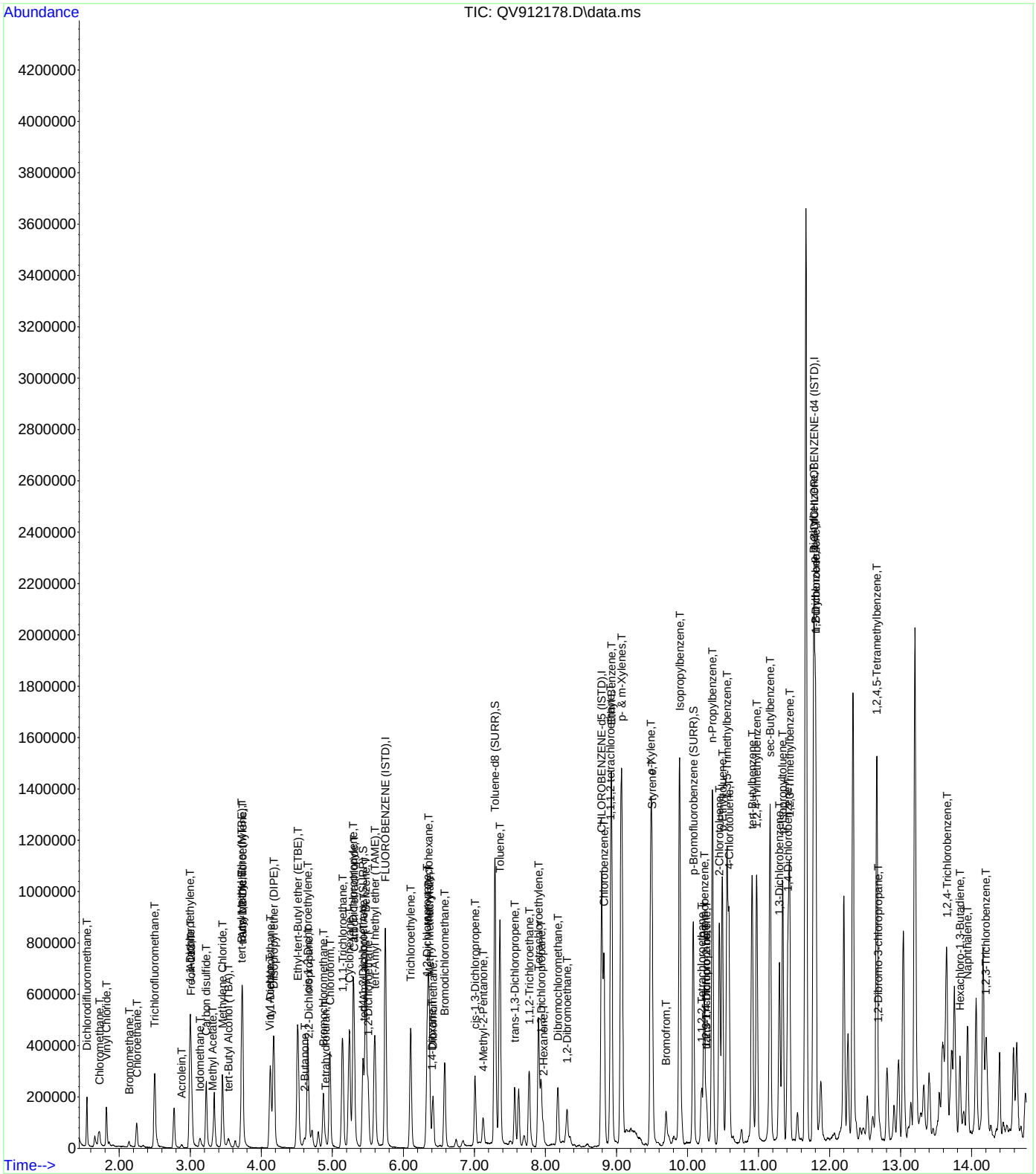
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	7.772	97	105195	10.22	ppb	#	1
55) 1,3-Dichloropropane	7.940	76	176514	9.56	ppb	#	68
56) Tetrachloroethylene	7.902	166	140937	9.19	ppb	#	100
57) 2-Hexanone	7.969	43	48723	9.77	ppb	#	1
58) Dibromochloromethane	8.176	129	119287	9.27	ppb	#	85
59) 1,2-Dibromoethane	8.304	107	92428	9.47	ppb		93
60) Chlorobenzene	8.824	112	409438	9.66	ppb	#	86
61) 1,1,1,2-tetrachloroethane	8.917	131	149214	9.66	ppb	#	47
62) Ethyl Benzene	8.928	91	897875	11.32	ppb		96
63) p- & m-Xylenes	9.071	91	1242289	19.47	ppb		92
64) o-Xylene	9.483	91	685703	10.45	ppb		96
65) Styrene	9.501	104	458792	9.93	ppb	#	92
66) Bromofrom	9.695	173	60334	8.77	ppb	#	95
68) p-Ethyltoluene	10.492	105	700888	9.94	ppb	#	97
69) Isopropylbenzene	9.890	105	1130731	13.70	ppb	#	90
71) 1,1,2,2-Tetrachloroethane	10.198	83	102153	9.73	ppb	#	65
72) Bromobenzene	10.236	77	301618	9.35	ppb	#	78
73) trans-1,4-Dichloro-2-b...	10.265	75	78774m	9.37	ppb		
74) 1,2,3-Trichloropropane	10.262	110	33740	9.95	ppb	#	1
75) n-Propylbenzene	10.349	91	1216001	12.68	ppb	#	90
76) 2-Chlorotoluene	10.448	91	545502	9.16	ppb		98
77) 4-Chlorotoluene	10.585	91	634308	9.18	ppb		95
78) 1,3,5-Trimethylbenzene	10.556	105	664367	9.64	ppb	#	60
79) tert-Butylbenzene	10.910	119	566326	8.66	ppb	#	87
80) 1,2,4-Trimethylbenzene	10.974	105	663875	9.61	ppb		93
81) sec-Butylbenzene	11.163	105	980921	12.59	ppb	#	89
82) 1,3-Dichlorobenzene	11.294	146	282117	9.09	ppb	#	90
83) p-Isopropyltoluene	11.337	119	647016	9.35	ppb		93
84) 1,4-Dichlorobenzene	11.413	146	271931m	8.89	ppb		
85) 1,2,3-Trimethylbenzene	11.436	105	677223	10.88	ppb	#	89
86) p-Diethylbenzene	11.776	105	438686	12.31	ppb	#	60
87) 1,2-Dichlorobenzene	11.802	146	245619	9.38	ppb	#	100
88) n-Butylbenzene	11.802	91	780049	10.12	ppb		96
89) 1,2-Dibromo-3-chloropr...	12.686	75	23877	9.76	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.662	119	873811	14.50	ppb	#	86
91) 1,2,4-Trichlorobenzene	13.653	180	121808	7.47	ppb	#	1
92) Hexachloro-1,3-Butadiene	13.836	225	74340	7.54	ppb	#	68
93) Naphthalene	13.938	128	280404	9.41	ppb	#	93
94) 1,2,3-Trichlorobenzene	14.197	180	87559	7.22	ppb	#	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912178.D
Acq On : 9 Jun 2020 8:50 am
Operator : TMP
Sample : BF00478-BS1
Misc : QBQV9060820B
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Jun 09 13:20:31 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912179.D
Acq On : 9 Jun 2020 9:18 am
Operator : TMP
Sample : BF00478-BSD1
Misc : QBQV9060820B
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Jun 09 13:23:50 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.746	70	162299	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	8.792	117	670628	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	11.779	152	261774	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.430	65	220839	9.96	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 99.60%				
51) Toluene-d8 (SURR)	7.289	98	871135	10.03	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 100.30%				
70) p-Bromofluorobenzene (...	10.082	95	359410	9.82	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 98.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.547	85	130983	10.05	ppb	#	1
3) Chloromethane	1.722	50	79050	8.83	ppb	#	89
4) Vinyl Chloride	1.820	62	117851	9.49	ppb	#	98
5) Bromomethane	2.134	94	12054	7.61	ppb		96
6) Chloroethane	2.245	64	71851	11.44	ppb	#	20
7) Trichlorofluoromethane	2.497	101	244309	10.69	ppb	#	19
9) Freon-113	3.012	101	137530	10.58	ppb	#	1
10) 1,1-Dichloroethylene	2.997	61	225080	10.21	ppb	#	85
11) Acrolein	2.872	56	7500	8.25	ppb	#	1
12) Acetone	3.003	43	22969	10.24	ppb	#	1
13) Iodomethane	3.134	142	45913	3.21	ppb	#	72
14) Methyl Acetate	3.323	43	35567	8.26	ppb	#	1
15) Carbon disulfide	3.224	76	368362	10.66	ppb	#	19
16) tert-Butyl Alcohol (TBA)	3.535	59	43886	41.73	ppb	#	1
17) Methylene Chloride	3.453	49	160873	8.89	ppb	#	71
18) Acrylonitrile	3.730	53	4099	9.74	ppb	#	1
19) trans-1,2-Dichloroethy...	3.732	61	211811	10.16	ppb	#	89
20) tert-Butyl Methyl Ethe...	3.724	73	389040	9.66	ppb	#	96
21) 1,1-Dichloroethane	4.125	63	278229	9.61	ppb	#	99
22) Vinyl Acetate	4.119	43	99977	10.06	ppb	#	1
23) Diisopropyl ether (DIPE)	4.174	45	405788	8.85	ppb	#	53
24) Ethyl-tert-Butyl ether...	4.514	59	499199	9.21	ppb	#	79
25) cis-1,2-Dichloroethylene	4.651	61	225496	8.55	ppb	#	83
26) 2-Butanone	4.619	72	8843	8.32	ppb	#	1
27) 2,2-Dichloropropane	4.671	77	75409	2.89	ppb	#	89
28) Tetrahydrofuran	4.901	42	17406	8.68	ppb	#	1
29) Bromochloromethane	4.872	49	97261	9.28	ppb	#	46
30) Chloroform	4.965	83	318036	9.60	ppb	#	85
31) 1,1,1-Trichloroethane	5.145	97	323404	9.87	ppb	#	55
32) Cyclohexane	5.238	56	272040	4.73	ppb	#	72
33) 1,1-Dichloropropylene	5.293	75	227116	9.64	ppb	#	53
35) Carbon Tetrachloride	5.308	117	262393	9.54	ppb	#	53
36) tert-Amyl alcohol (TAA)	5.441	59	84278	101.11	ppb	#	1
37) 1,2-Dichloroethane	5.502	62	205201	9.07	ppb	#	100
38) Benzene	5.470	78	694360	10.88	ppb	#	95
39) tert-Amyl methyl ether...	5.598	73	413022	9.21	ppb	#	1
41) Trichloroethylene	6.101	95	174699	9.46	ppb	#	72
42) Methyl Cyclohexane	6.359	83	283955	10.19	ppb	#	56
43) Methyl Methacrylate	6.362	69	118967	8.84	ppb	#	98
44) Dibromomethane	6.415	93	76525	9.37	ppb	#	49
45) Bromodichloromethane	6.583	83	230450	9.11	ppb	#	95
46) 1,2-Dichloropropane	6.333	63	152746	9.38	ppb	#	94
47) 1,4-Dioxane	6.397	88	14232m	276.98	ppb		
49) cis-1,3-Dichloropropene	7.010	75	217478	7.77	ppb	#	59
50) 4-Methyl-2-Pentanone	7.121	43	74622	9.24	ppb	#	54
52) Toluene	7.356	91	722889	9.63	ppb		99
53) trans-1,3-Dichloropropene	7.568	75	182523	7.44	ppb	#	88

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912179.D
Acq On : 9 Jun 2020 9:18 am
Operator : TMP
Sample : BF00478-BSD1
Misc : QBQV9060820B
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Jun 09 13:23:50 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M

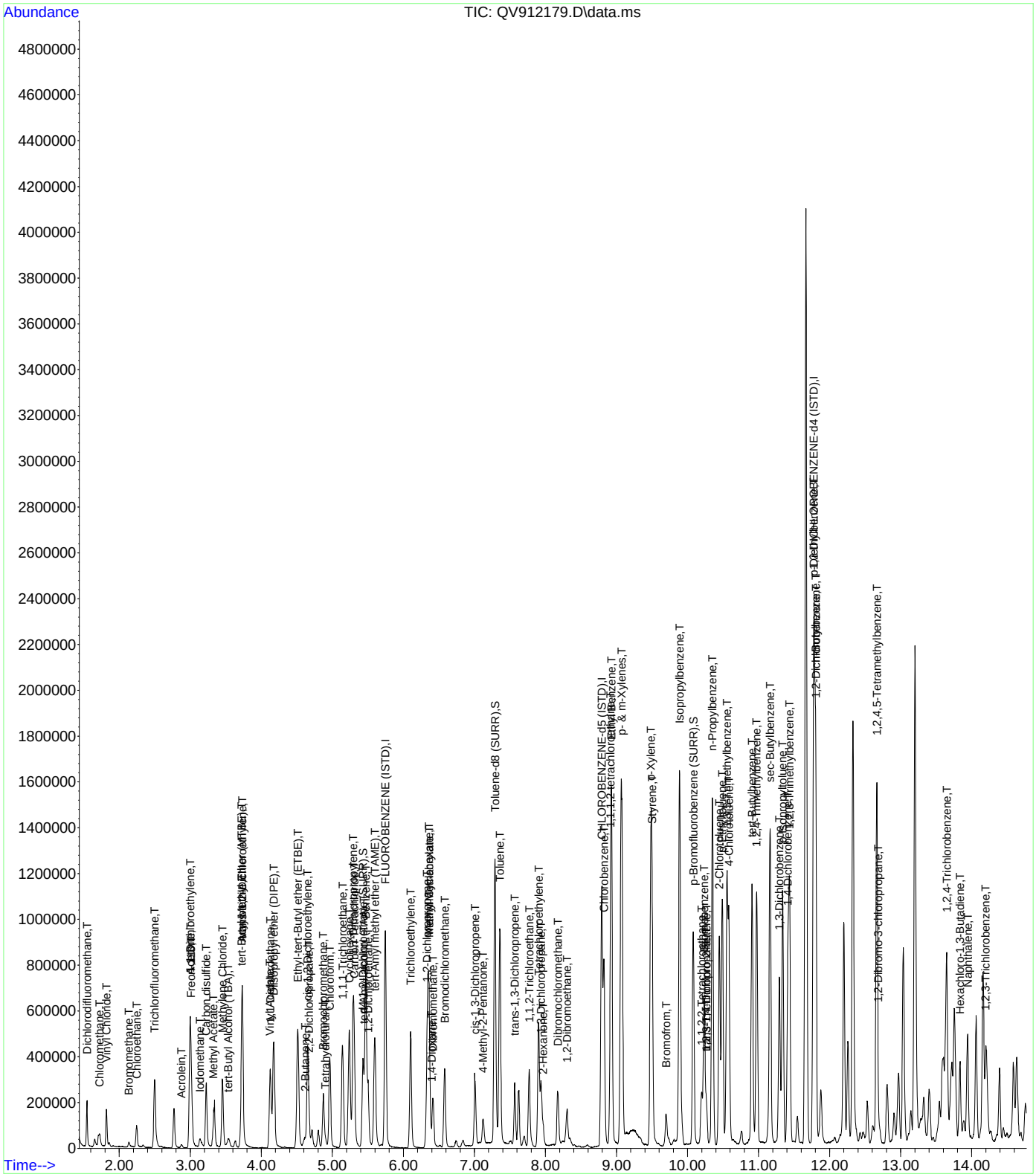
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	7.772	97	114553	9.85	ppb	#	1
55) 1,3-Dichloropropane	7.937	76	193350	9.26	ppb	#	94
56) Tetrachloroethylene	7.905	166	157359	9.08	ppb	#	100
57) 2-Hexanone	7.964	43	53025	9.41	ppb	#	1
58) Dibromochloromethane	8.176	129	128856	8.86	ppb	#	84
59) 1,2-Dibromoethane	8.306	107	104014	9.43	ppb		92
60) Chlorobenzene	8.824	112	450882	9.42	ppb	#	87
61) 1,1,1,2-tetrachloroethane	8.917	131	164150	9.40	ppb	#	51
62) Ethyl Benzene	8.928	91	988549	11.02	ppb		95
63) p- & m-Xylenes	9.071	91	1346339	18.67	ppb		92
64) o-Xylene	9.483	91	733014	9.88	ppb		96
65) Styrene	9.501	104	498011	9.54	ppb	#	82
66) Bromofrom	9.701	173	65991	8.48	ppb	#	81
68) p-Ethyltoluene	10.489	105	762814	9.70	ppb	#	97
69) Isopropylbenzene	9.887	105	1228971	13.35	ppb	#	91
71) 1,1,2,2-Tetrachloroethane	10.198	83	113005	9.65	ppb	#	65
72) Bromobenzene	10.233	77	328020	9.12	ppb	#	78
73) trans-1,4-Dichloro-2-b...	10.265	75	98734m	10.53	ppb		
74) 1,2,3-Trichloropropane	10.265	110	36105	9.55	ppb	#	1
75) n-Propylbenzene	10.349	91	1331175	12.44	ppb	#	90
76) 2-Chlorotoluene	10.448	91	588359	8.86	ppb		98
77) 4-Chlorotoluene	10.582	91	677410	8.79	ppb		95
78) 1,3,5-Trimethylbenzene	10.556	105	713591	9.28	ppb	#	60
79) tert-Butylbenzene	10.907	119	608034	8.34	ppb	#	88
80) 1,2,4-Trimethylbenzene	10.971	105	710652	9.23	ppb		93
81) sec-Butylbenzene	11.163	105	1062699	12.23	ppb	#	90
82) 1,3-Dichlorobenzene	11.291	146	307164	8.87	ppb	#	90
83) p-Isopropyltoluene	11.337	119	707466	9.17	ppb		93
84) 1,4-Dichlorobenzene	11.410	146	300828m	8.82	ppb		
85) 1,2,3-Trimethylbenzene	11.433	105	717700	10.34	ppb	#	90
86) p-Diethylbenzene	11.776	105	468606	11.79	ppb	#	62
87) 1,2-Dichlorobenzene	11.805	146	266917	9.14	ppb	#	100
88) n-Butylbenzene	11.802	91	845068	9.83	ppb		99
89) 1,2-Dibromo-3-chloropr...	12.683	75	24964	9.15	ppb	#	1
90) 1,2,4,5-Tetramethylben...	12.665	119	917629	13.65	ppb	#	86
91) 1,2,4-Trichlorobenzene	13.651	180	134618	7.41	ppb	#	1
92) Hexachloro-1,3-Butadiene	13.837	225	80270	7.30	ppb	#	65
93) Naphthalene	13.944	128	305062	9.18	ppb	#	95
94) 1,2,3-Trichlorobenzene	14.194	180	93838	6.94	ppb	#	84

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060820A\
Data File : QV912179.D
Acq On : 9 Jun 2020 9:18 am
Operator : TMP
Sample : BF00478-BSD1
Misc : QBQV9060820B
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Jun 09 13:23:50 2020
Quant Method : C:\msdchem\1\methods\VQ9LO027.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Thu May 21 11:13:32 2020
Response via : Initial Calibration
InstName : QVOA9
DataAcq Meth:QVOA9ACQ.M



LCS RAW DATA

SDG: 20F0067
CLASS: VOA
METHOD: EPA 8260C

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060820A\
Data File : QV619463.D
Acq On : 8 Jun 2020 12:22 pm
InstName : QVOA6
Operator : TMP
Sample : BF00479-BS1
Misc : QBQV6060820A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 09 14:56:47 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Jun 08 11:17:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.128	70	53763	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	9.180	117	201223	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	12.157	152	88813	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.816	65	78184	10.54	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 105.40%				
53) Toluene-d8 (SURR)	7.678	98	266240	9.48	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 94.80%				
73) p-Bromofluorobenzene (...	10.466	95	95385	9.50	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 95.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.599	85	50714	11.68	ppb	#	1
3) Chloromethane	1.813	50	113704m	15.21	ppb		
4) Vinyl Chloride	1.916	62	68770	10.56	ppb	#	47
5) Bromomethane	2.275	94	6412	1.53	ppb	#	50
6) Chloroethane	2.405	64	51618	12.04	ppb		91
7) Trichlorofluoromethane	2.692	101	82341	9.48	ppb		98
9) Freon-113	3.262	101	51097	9.45	ppb		100
10) 1,1-Dichloroethylene	3.243	61	101171	9.79	ppb		96
11) Acrolein	3.126	56	6074	10.88	ppb	#	74
12) Acetone	3.268	43	15433	9.91	ppb		99
13) Iodomethane	3.396	142	5403	0.68	ppb		99
14) Allyl Chloride	3.624	76	30541	9.46	ppb	#	100
15) Methyl Acetate	3.610	43	33219	10.52	ppb		99
16) Carbon disulfide	3.471	76	131669	9.25	ppb		100
17) tert-Butyl Alcohol (TBA)	3.858	59	34134	61.11	ppb	#	1
18) Methylene Chloride	3.755	49	104964	10.49	ppb		95
19) Acrylonitrile	3.961	53	16163	11.47	ppb	#	42
20) trans-1,2-Dichloroethy...	4.041	61	98006	9.80	ppb		100
21) tert-Butyl Methyl Ethe...	4.033	73	165239	10.10	ppb	#	100
22) 1,1-Dichloroethane	4.464	63	121598	9.25	ppb		100
23) Vinyl Acetate	4.467	43	93616	11.26	ppb	#	100
24) Diisopropyl ether (DIPE)	4.509	45	256536	9.28	ppb	#	99
25) Ethyl-tert-Butyl ether...	4.862	59	247940	10.09	ppb	#	85
26) cis-1,2-Dichloroethylene	5.015	61	132562	11.16	ppb	#	87
27) 2-Butanone	4.990	72	5843m	10.64	ppb		
28) 2,2-Dichloropropane	5.024	77	90362	12.92	ppb	#	65
29) Tetrahydrofuran	5.263	42	15212	9.41	ppb	#	48
30) Bromochloromethane	5.243	49	62609	10.02	ppb		95
31) Chloroform	5.343	83	116683	9.69	ppb	#	84
32) 1,1,1-Trichloroethane	5.508	97	100910	9.06	ppb		99
33) Cyclohexane	5.591	56	103810	8.72	ppb		96
34) 1,1-Dichloropropylene	5.661	75	78872	8.71	ppb		97
36) Carbon Tetrachloride	5.666	117	79028	8.28	ppb	#	53
37) tert-Amyl alcohol (TAA)	5.844	59	56568	120.91	ppb		99
38) 1,2-Dichloroethane	5.889	62	89996	9.85	ppb		100
39) Benzene	5.844	78	241186	9.51	ppb	#	87
40) tert-Amyl methyl ether...	5.970	73	180920	10.06	ppb	#	90
42) Trichloroethylene	6.487	95	70930	8.86	ppb		95
43) Methyl Cyclohexane	6.726	83	73560	6.42	ppb	#	70
44) Methyl Methacrylate	6.768	69	33973	7.61	ppb		86
45) Dibromomethane	6.813	93	34753	9.00	ppb		98
46) Bromodichloromethane	6.982	83	88848	8.68	ppb		99
47) 1,2-Dichloropropane	6.726	63	71703	8.50	ppb	#	99
48) 1,4-Dioxane	6.790	88	7922	392.85	ppb	#	86
49) 2-nitropropane	7.155	43	14947	7.69	ppb	#	100
51) cis-1,3-Dichloropropene	7.408	75	99053	8.76	ppb		98
52) 4-Methyl-2-Pentanone	7.528	43	58512	8.87	ppb		95
54) Toluene	7.747	91	265547	8.52	ppb		100

Data Path : C:\msdchem\1\DATA\060820A\
Data File : QV619463.D
Acq On : 8 Jun 2020 12:22 pm
InstName : QVOA6
Operator : TMP
Sample : BF00479-BS1
Misc : QBQV6060820A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 09 14:56:47 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Jun 08 11:17:08 2020
Response via : Initial Calibration

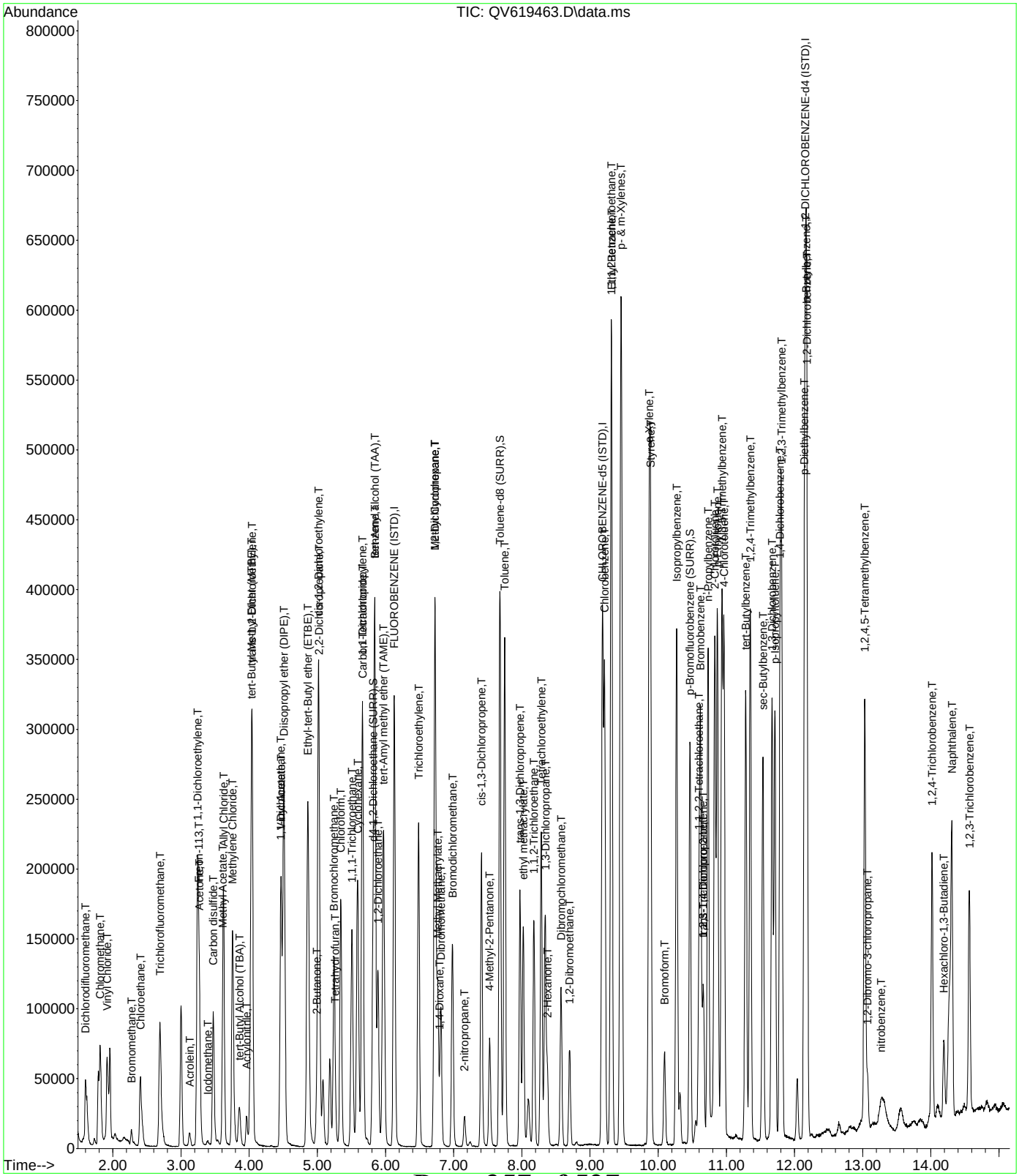
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
55) trans-1,3-Dichloropropene	7.973	75	83598	8.73	ppb	#	92
56) ethyl methacrylate	8.020	69	71203	9.08	ppb	#	100
57) 1,1,2-Trichloroethane	8.176	97	49132	9.22	ppb		99
58) 1,3-Dichloropropane	8.346	76	82368	9.21	ppb		97
59) Tetrachloroethylene	8.284	166	65893	8.04	ppb	#	100
60) 2-Hexanone	8.376	43	40728	9.30	ppb	#	16
61) Dibromochloromethane	8.576	129	59306	9.03	ppb		97
62) 1,2-Dibromoethane	8.699	107	49322	9.36	ppb		99
63) Chlorobenzene	9.214	112	177237	9.12	ppb		97
64) 1,1,1,2-tetrachloroethane	9.311	131	67204	9.12	ppb		98
65) Ethyl Benzene	9.317	91	290983	8.72	ppb		100
66) p- & m-Xylenes	9.456	91	452561	17.42	ppb		98
67) o-Xylene	9.867	91	239691	9.01	ppb		100
68) Styrene	9.890	104	193163	9.57	ppb		97
69) Bromoform	10.093	173	33761	8.73	ppb		98
71) p-Ethyltoluene	10.869	105	257851	9.26	ppb	#	67
72) Isopropylbenzene	10.271	105	264736	7.77	ppb		97
74) 1,1,2,2-Tetrachloroethane	10.599	83	58288	9.17	ppb	#	69
75) Bromobenzene	10.621	77	118143	8.07	ppb		95
76) trans-1,4-Dichloro-2-b...	10.660	75	60453	7.80	ppb	#	60
77) 1,2,3-Trichloropropane	10.660	110	17398	9.66	ppb	#	1
78) n-Propylbenzene	10.733	91	297543	7.75	ppb		98
79) 2-Chlorotoluene	10.830	91	225071	8.53	ppb		100
80) 4-Chlorotoluene	10.966	91	234613	8.60	ppb		97
81) 1,3,5-Trimethylbenzene	10.936	105	221058	8.46	ppb	#	63
82) tert-Butylbenzene	11.286	119	176799	6.46	ppb		97
83) 1,2,4-Trimethylbenzene	11.350	105	231397	8.87	ppb		99
84) sec-Butylbenzene	11.537	105	212572	7.80	ppb		98
85) 1,3-Dichlorobenzene	11.670	146	139151	9.18	ppb		98
86) p-Isopropyltoluene	11.712	119	205431	8.16	ppb		98
87) 1,4-Dichlorobenzene	11.787	146	141186	9.26	ppb		98
88) 1,2,3-Trimethylbenzene	11.809	105	237642	9.89	ppb		99
89) p-Diethylbenzene	12.143	105	101302	9.11	ppb	#	78
90) 1,2-Dichlorobenzene	12.182	146	130407	9.41	ppb	#	87
91) n-Butylbenzene	12.171	91	178597	7.80	ppb	#	78
93) 1,2-Dibromo-3-chloropr...	13.070	75	8823	8.06	ppb		95
94) 1,2,4,5-Tetramethylben...	13.031	119	188664	9.06	ppb		98
95) nitrobenzene	13.270	77	524	4.61	ppb	#	100
96) 1,2,4-Trichlorobenzene	14.019	180	66201	9.24	ppb		97
97) Hexachloro-1,3-Butadiene	14.188	225	12745	8.27	ppb		99
98) Naphthalene	14.308	128	157153	9.21	ppb		99
99) 1,2,3-Trichlorobenzene	14.567	180	54181	8.95	ppb		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060820A\
Data File : QV619463.D
Acq On : 8 Jun 2020 12:22 pm
InstName : QVOA6
Operator : TMP
Sample : BF00479-BS1
Misc : QBQV6060820A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 09 14:56:47 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Jun 08 11:17:08 2020
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\060820A\
Data File : QV619469.D
Acq On : 8 Jun 2020 3:30 pm
InstName : QVOA6
Operator : TMP
Sample : BF00479-BSD1
Misc : QBQV6060820A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 09 15:04:32 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Jun 08 11:17:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.128	70	53415	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	9.180	117	196608	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	12.160	152	89358	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.811	65	74111	10.05	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 100.50%				
53) Toluene-d8 (SURR)	7.678	98	262529	9.57	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 95.70%				
73) p-Bromofluorobenzene (...	10.469	95	93047	9.21	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 92.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.599	85	52738	12.22	ppb	#	1
3) Chloromethane	1.782	50	119118m	16.04	ppb		
4) Vinyl Chloride	1.913	62	74161	11.46	ppb	#	43
5) Bromomethane	2.272	94	6752	1.63	ppb		64
6) Chloroethane	2.403	64	53280	12.50	ppb		91
7) Trichlorofluoromethane	2.692	101	89179	10.34	ppb		98
9) Freon-113	3.263	101	57452	10.70	ppb		100
10) 1,1-Dichloroethylene	3.240	61	106625	10.39	ppb		98
11) Acrolein	3.126	56	5745	10.36	ppb	#	83
12) Acetone	3.268	43	15273	9.87	ppb	#	95
13) Iodomethane	3.393	142	5113	0.65	ppb		94
14) Allyl Chloride	3.624	76	30179	9.41	ppb	#	100
15) Methyl Acetate	3.610	43	30492	9.72	ppb		99
16) Carbon disulfide	3.471	76	137895	9.75	ppb		100
17) tert-Butyl Alcohol (TBA)	3.855	59	33512	60.39	ppb	#	1
18) Methylene Chloride	3.755	49	100285	10.08	ppb		94
19) Acrylonitrile	3.961	53	14734	10.53	ppb	#	45
20) trans-1,2-Dichloroethy...	4.042	61	101370	10.20	ppb		100
21) tert-Butyl Methyl Ethe...	4.028	73	153269	9.43	ppb	#	100
22) 1,1-Dichloroethane	4.464	63	121070	9.27	ppb		99
23) Vinyl Acetate	4.464	43	84583	10.24	ppb	#	100
24) Diisopropyl ether (DIPE)	4.506	45	240975	8.78	ppb	#	99
25) Ethyl-tert-Butyl ether...	4.857	59	230933	9.46	ppb	#	100
26) cis-1,2-Dichloroethylene	5.013	61	125996	10.68	ppb		99
27) 2-Butanone	4.982	72	5388	9.87	ppb	#	95
28) 2,2-Dichloropropane	5.024	77	93698	13.49	ppb		99
29) Tetrahydrofuran	5.260	42	14812	9.22	ppb	#	52
30) Bromochloromethane	5.244	49	57162	9.21	ppb	#	84
31) Chloroform	5.344	83	114770	9.59	ppb	#	84
32) 1,1,1-Trichloroethane	5.508	97	107236	9.69	ppb	#	82
33) Cyclohexane	5.591	56	120126	10.16	ppb		96
34) 1,1-Dichloropropylene	5.658	75	86492	9.61	ppb		96
36) Carbon Tetrachloride	5.664	117	86570	9.13	ppb	#	53
37) tert-Amyl alcohol (TAA)	5.836	59	53553	115.21	ppb	#	83
38) 1,2-Dichloroethane	5.889	62	82424	9.08	ppb		99
39) Benzene	5.842	78	243074	9.65	ppb	#	89
40) tert-Amyl methyl ether...	5.970	73	170901	9.57	ppb	#	100
42) Trichloroethylene	6.484	95	71954	9.20	ppb		96
43) Methyl Cyclohexane	6.724	83	97171	8.68	ppb	#	78
44) Methyl Methacrylate	6.768	69	31332	7.18	ppb	#	28
45) Dibromomethane	6.810	93	32504	8.61	ppb		98
46) Bromodichloromethane	6.980	83	85104	8.51	ppb		99
47) 1,2-Dichloropropane	6.724	63	70774	8.59	ppb	#	99
48) 1,4-Dioxane	6.790	88	7973	404.66	ppb	#	81
49) 2-nitropropane	7.160	43	13134	6.91	ppb	#	100
51) cis-1,3-Dichloropropene	7.408	75	95105	8.61	ppb		98
52) 4-Methyl-2-Pentanone	7.528	43	54354	8.43	ppb		95
54) Toluene	7.748	91	270449	8.88	ppb		99

Data Path : C:\msdchem\1\DATA\060820A\
Data File : QV619469.D
Acq On : 8 Jun 2020 3:30 pm
InstName : QVOA6
Operator : TMP
Sample : BF00479-BSD1
Misc : QBQV6060820A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 09 15:04:32 2020
Quant Method : C:\msdchem\2\METHODS\VQ6LO072.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Jun 08 11:17:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
55) trans-1,3-Dichloropropene	7.976	75	79452	8.50	ppb		99
56) ethyl methacrylate	8.020	69	65914	8.60	ppb	#	100
57) 1,1,2-Trichloroethane	8.176	97	46405	8.91	ppb		99
58) 1,3-Dichloropropane	8.343	76	76716	8.78	ppb	#	89
59) Tetrachloroethylene	8.287	166	73536	9.18	ppb	#	100
60) 2-Hexanone	8.374	43	37249	8.70	ppb	#	14
61) Dibromochloromethane	8.574	129	55402	8.64	ppb		97
62) 1,2-Dibromoethane	8.699	107	46271	8.99	ppb		98
63) Chlorobenzene	9.214	112	175547	9.24	ppb		99
64) 1,1,1,2-tetrachloroethane	9.308	131	63798	8.87	ppb		98
65) Ethyl Benzene	9.317	91	300763	9.23	ppb		100
66) p- & m-Xylenes	9.459	91	465207	18.33	ppb		98
67) o-Xylene	9.868	91	238553	9.18	ppb		100
68) Styrene	9.890	104	188165	9.55	ppb		96
69) Bromoform	10.093	173	31180	8.25	ppb		98
71) p-Ethyltoluene	10.869	105	266740m	9.53	ppb		
72) Isopropylbenzene	10.274	105	282623	8.24	ppb		97
74) 1,1,2,2-Tetrachloroethane	10.602	83	55064	8.61	ppb	#	69
75) Bromobenzene	10.622	77	114930	7.80	ppb		95
76) trans-1,4-Dichloro-2-b...	10.666	75	57463	7.37	ppb	#	38
77) 1,2,3-Trichloropropane	10.666	110	16052	8.86	ppb	#	1
78) n-Propylbenzene	10.730	91	320644	8.30	ppb		98
79) 2-Chlorotoluene	10.830	91	228553	8.61	ppb		100
80) 4-Chlorotoluene	10.967	91	233858	8.52	ppb		97
81) 1,3,5-Trimethylbenzene	10.936	105	229820	8.75	ppb	#	65
82) tert-Butylbenzene	11.284	119	193455	7.03	ppb		97
83) 1,2,4-Trimethylbenzene	11.353	105	234905	8.95	ppb		99
84) sec-Butylbenzene	11.537	105	241282	8.80	ppb		98
85) 1,3-Dichlorobenzene	11.673	146	135569	8.89	ppb		98
86) p-Isopropyltoluene	11.715	119	221869	8.76	ppb		98
87) 1,4-Dichlorobenzene	11.790	146	137933	9.00	ppb		97
88) 1,2,3-Trimethylbenzene	11.812	105	233953	9.67	ppb		99
89) p-Diethylbenzene	12.149	105	110089	9.84	ppb	#	79
90) 1,2-Dichlorobenzene	12.182	146	127017	9.11	ppb	#	87
91) n-Butylbenzene	12.174	91	198219	8.61	ppb	#	79
93) 1,2-Dibromo-3-chloropr...	13.070	75	8317	7.55	ppb		95
94) 1,2,4,5-Tetramethylben...	13.031	119	186905	8.92	ppb		98
95) nitrobenzene	13.031	77	15080	83.48	ppb	#	100
96) 1,2,4-Trichlorobenzene	14.021	180	63827	8.86	ppb		98
97) Hexachloro-1,3-Butadiene	14.194	225	13841	8.93	ppb		98
98) Naphthalene	14.308	128	143360	8.35	ppb		100
99) 1,2,3-Trichlorobenzene	14.567	180	51553	8.47	ppb		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060820A\
Data File : QV619469.D
Acq On : 8 Jun 2020 3:30 pm
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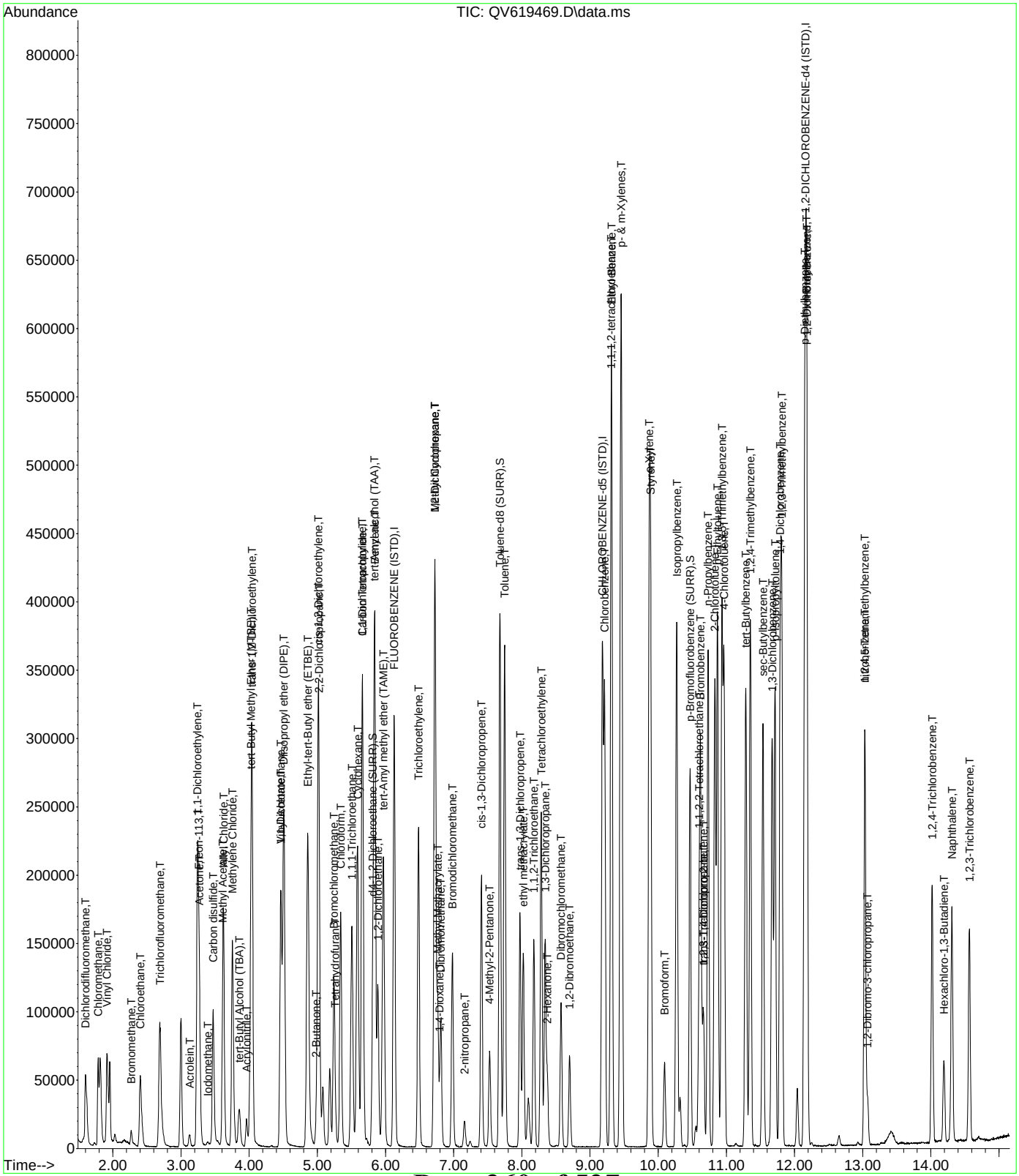


BENCHSHEETS

SDG: 20F0067

CLASS: VOA

METHOD: EPA 8260C

PREPARATION BENCH SHEET-AQUEOUS: BF00412

Prepared: **06/05/2020 06:57**

York Analytical Laboratories, Inc.

Printed: 6/9/2020 6:55:03AM

Matrix: Water **Preparation EPA 5030B** **Surrogate used: Y17H091** **1** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
20E0902-39 B	Volatile Organics, 1	25	25							<2	Na		
20E0902-39 B	VOA, 8260 LOW M	25	25							<2	Na		
20E0902-41 B	Volatile Organics, 1	25	25							<2	Na		
20E0902-41 B	VOA, 8260 LOW M	25	25							<2	Na		
20E0902-42 B	Volatile Organics, 1	25	25							<2	Na		
20E0902-42 B	VOA, 8260 LOW M	25	25							<2	Na		
20F0009-01 C	Volatile Organics, 1	25	25							<2	Na		
20F0009-01 C	Volatile Organics, 8	25	25							<2	Na		
20F0067-01 B	Volatile Organics, 8	25	25							<2	Na		
20F0067-02 B	Volatile Organics, 8	25	25							<2	Na		
20F0067-03 B	Volatile Organics, 8	25	25							<2	Na		
20F0067-06 B	Volatile Organics, 8	25	25							<2	Na		
BF00412-BLK1	QC	25	25							<2	Na		
BF00412-BS1	QC	25	25	Y20E330	5					<2	Na		
BF00412-BSD1	QC	25	25	Y20E330	5					<2	Na		

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number
Y18B221	Antifoam B Silicone Emulsion	0000171560	Y20E174	Q_VOA_Methanol - P&T Grade	JA095425

Preparation Performed by **TMP** **Date:** **06/05/2020 06:57**

BENCHSHEETS

SDG: 20F0067

CLASS: VOA

METHOD: EPA 8260C

PREPARATION BENCH SHEET-AQUEOUS: BF00478

Prepared: **06/08/2020 06:13**

York Analytical Laboratories, Inc.

Printed: 6/10/2020 6:12:24AM

Matrix: Water **Preparation EPA 5030B** **Surrogate used: Y17H091** **1** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
20F0048-01 C	Volatile Organics, 1	25	25							<2	Na		
20F0048-01 B	Volatile Organics, 8	25	25							<2	Na		From BF00450 by TMP on 06/09/2020
20F0048-02 C	Volatile Organics, 8	25	25							<2	Na		
20F0048-02 C	Volatile Organics, 1	25	25							<2	Na		
20F0049-01 C	Volatile Organics, 8	25	25							<2	Na		
20F0049-01 C	Volatile Organics, 1	25	25							<2	Na		
20F0049-02 C	Volatile Organics, 8	25	25							<2	Na		
20F0049-02 C	Volatile Organics, 1	25	25							<2	Na		
20F0049-03 C	Volatile Organics, 8	25	25							<2	NA		
20F0049-03 C	Volatile Organics, 1	25	25							<2	NA		
20F0049-04 D	Volatile Organics, 1	25	25							<2	Na		
20F0049-04 D	Volatile Organics, 8	25	25							<2	Na		
20F0049-07 B	Volatile Organics, 1	25	25							<2	Na		
20F0049-07 B	Volatile Organics, 8	25	25							<2	Na		
20F0059-03RE1 B	Volatile Organics, (	25	25							<2	Na		From BF00449 by TMP on 06/09/2020
20F0067-02 B	Volatile Organics, 8	25	25							<2	Na		From BF00412 by TMP on 06/09/2020
20F0067-03 B	Volatile Organics, 8	25	25							<2	Na		From BF00412 by TMP on 06/09/2020
20F0067-04 C	Volatile Organics, 8	25	25							<2	Na		
20F0067-05 B	Volatile Organics, 8	25	25							<2	Na		
20F0201-05 D	VOA, 8260 NJ DK	25	25							<2	Na		
20F0201-05 D	Volatile Organics, 1	25	25							<2	Na		
BF00478-BLK1	QC	25	25							<2	Na		
BF00478-BS1	QC	25	25	Y20E330	5					<2	Na		
BF00478-BSD1	QC	25	25	Y20E330	5					<2	Na		

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number
Y18B221	Antifoam B Silicone Emulsion	0000171560	Y20E173	Q_VOA_40mL HCL Pre-Preserved	2515

Preparation Performed by **TMP** **Date:** **06/08/2020 06:13**

BENCHSHEETS

SDG: 20F0067

CLASS: VOA

METHOD: EPA 8260C

PREPARATION BENCH SHEET-AQUEOUS: BF00479

Prepared: **06/08/2020 06:30**

York Analytical Laboratories, Inc.

Printed: 6/10/2020 6:12:13AM

Matrix: Water **Preparation EPA 5030B** **Surrogate used: Y17H091** **1** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
20F0049-05 C	Volatile Organics, 7	25	25							<2	NA		
20F0049-05 C	Volatile Organics, 8	25	25							<2	NA		
20F0049-06 C	Volatile Organics, 7	25	25							<2	NA		
20F0049-06 C	Volatile Organics, 8	25	25							<2	NA		
20F0067-01RE1 B	Volatile Organics, 8	25	25							<2	Na		From BF00412 by TMP on 06/09/2020
20F0067-06RE1 B	Volatile Organics, 8	25	25							<2	Na		From BF00412 by TMP on 06/09/2020
20F0201-02 D	Volatile Organics, 7	25	25							<2	NA		
20F0201-02 D	VOA, 8260 NJ DK	25	25							<2	NA		
BF00479-BLK1	QC	25	25							<2	NA		
BF00479-BS1	QC	25	25	Y20E330	5					<2	NA		
BF00479-BSD1	QC	25	25	Y20E330	5					<2	NA		

Reagents:

ID Number	Description	Lot Number
Y18B221	Antifoam B Silicone Emulsion	0000171560

ID Number	Description	Lot Number
Y20E173	Q_VOA_40mL HCL Pre-Preserved	2515

Preparation Performed by **TMP** **Date:** **06/08/2020 06:30**

York Analytical Laboratories, Inc.
SDG: 20F0067
CLASS: METALS
METHOD: EPA 6010D

DATA PACKAGE COVER PAGE

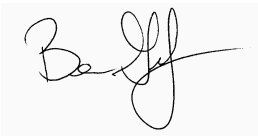
EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Client Sample Id:	Lab Sample Id:
KC-MW-01 0620	20F0067-01
KC-MW-02 0620	20F0067-02
KC-MW-05 0620	20F0067-03
KC-MW-DUP 0620	20F0067-06

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:  Name: Benjamin Gulizia

Date: 6/12/2020 Title: Laboratory Director

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 6010D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00209	Laboratory ID:	BF00209-BS1
Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL

COMPOUND	SPIKE ADDED (ug/mL)	LCS CONCENTRATION (ug/mL)	LCS % REC. #	QC LIMITS REC.
Antimony	0.250	0.234	93.6	80 - 120
Arsenic	2.00	1.78	88.9	80 - 120
Beryllium	0.0500	0.048	95.0	80 - 120
Cadmium	0.0500	0.046	92.4	80 - 120
Chromium	0.200	0.203	101	80 - 120
Copper	0.250	0.243	97.2	80 - 120
Lead	0.500	0.460	92.0	80 - 120
Nickel	0.500	0.491	98.2	80 - 120
Selenium	2.00	1.56	77.8 *	80 - 120
Silver	0.0500	0.047	94.8	80 - 120
Thallium	2.00	1.87	93.5	80 - 120
Zinc	0.500	0.475	94.9	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Batch: BF00209 Batch Matrix: Water Preparation: EPA 3015A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 0620	20F0067-01	qbi060820ARE_1-071	06/03/20 15:02	
KC-MW-02 0620	20F0067-02	qbi060820ARE_1-072	06/03/20 15:02	
KC-MW-05 0620	20F0067-03	qbi060820ARE_1-073	06/03/20 15:02	
KC-MW-DUP 0620	20F0067-06	qbi060820ARE_1-074	06/03/20 15:02	
Blank	BF00209-BLK1	qbi060520ARE_1-086	06/03/20 15:02	
LCS	BF00209-BS1	qbi060520ARE_1-087	06/03/20 15:02	

FORM I **BLANKS**

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: WinLabICP Project: 41103.20 Kingston CVS

Sequence: Y0F0524 Calibration: 06/05/20 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y0F0524-ICB1	Antimony	0.002	0.025	ug/mL		EPA 6010D
	Arsenic	0.003	0.015	ug/mL		EPA 6010D
	Beryllium	0.00009	0.0005	ug/mL		EPA 6010D
	Cadmium	0.0001	0.003	ug/mL		EPA 6010D
	Chromium	0.0003	0.005	ug/mL		EPA 6010D
	Copper	-0.0003	0.020	ug/mL		EPA 6010D
	Lead	-0.001	0.005	ug/mL		EPA 6010D
	Nickel	-0.003	0.010	ug/mL		EPA 6010D
	Selenium	-0.005	0.025	ug/mL		EPA 6010D
	Silver	-0.0006	0.005	ug/mL		EPA 6010D
	Thallium	0.001	0.025	ug/mL		EPA 6010D
	Zinc	-0.006	0.025	ug/mL		EPA 6010D
Y0F0524-CCB1	Antimony	-0.001	0.025	ug/mL		EPA 6010D
	Arsenic	0.0002	0.015	ug/mL		EPA 6010D
	Beryllium	0.00004	0.0005	ug/mL		EPA 6010D
	Cadmium	-0.00008	0.003	ug/mL		EPA 6010D
	Chromium	0.0003	0.005	ug/mL		EPA 6010D
	Copper	0.002	0.020	ug/mL		EPA 6010D
	Lead	-0.001	0.005	ug/mL		EPA 6010D
	Nickel	-0.004	0.010	ug/mL		EPA 6010D
	Selenium	-0.003	0.025	ug/mL		EPA 6010D
	Silver	0.0004	0.005	ug/mL		EPA 6010D
	Thallium	0.003	0.025	ug/mL		EPA 6010D
	Zinc	-0.006	0.025	ug/mL		EPA 6010D
Y0F0524-CCB7	Antimony	-0.001	0.025	ug/mL		EPA 6010D
	Arsenic	0.005	0.015	ug/mL		EPA 6010D
	Beryllium	0.0004	0.0005	ug/mL		EPA 6010D
	Cadmium	-0.000008	0.003	ug/mL		EPA 6010D
	Chromium	-0.0009	0.005	ug/mL		EPA 6010D
	Copper	0.002	0.020	ug/mL		EPA 6010D
	Lead	-0.003	0.005	ug/mL		EPA 6010D
	Nickel	0.003	0.010	ug/mL		EPA 6010D
	Selenium	-0.001	0.025	ug/mL		EPA 6010D

FORM I **BLANKS**

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: WinLabICP Project: 41103.20 Kingston CVS

Sequence: Y0F0524 Calibration: 06/05/20 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y0F0524-CCB7	Silver	-0.0009	0.005	ug/mL		EPA 6010D
	Thallium	0.005	0.025	ug/mL		EPA 6010D
	Zinc	-0.005	0.025	ug/mL		EPA 6010D
BF00209-BLK1	Antimony	0.0004	0.028	mg/L		EPA 6010D
	Arsenic	0.003	0.017	mg/L		EPA 6010D
	Beryllium	0.0006	0.0006	mg/L	*	EPA 6010D
	Cadmium	-0.0003	0.003	mg/L		EPA 6010D
	Chromium	-0.0007	0.006	mg/L		EPA 6010D
	Copper	-0.002	0.022	mg/L		EPA 6010D
	Lead	-0.006	0.006	mg/L		EPA 6010D
	Nickel	-0.003	0.011	mg/L		EPA 6010D
	Selenium	-0.005	0.028	mg/L		EPA 6010D
	Silver	-0.002	0.006	mg/L		EPA 6010D
	Thallium	0.005	0.028	mg/L		EPA 6010D
	Zinc	-0.005	0.028	mg/L		EPA 6010D
Y0F0524-CCB8	Antimony	0.003	0.025	ug/mL		EPA 6010D
	Arsenic	0.002	0.015	ug/mL		EPA 6010D
	Beryllium	0.0002	0.0005	ug/mL		EPA 6010D
	Cadmium	-0.00004	0.003	ug/mL		EPA 6010D
	Chromium	0.00009	0.005	ug/mL		EPA 6010D
	Copper	0.002	0.020	ug/mL		EPA 6010D
	Lead	-0.002	0.005	ug/mL		EPA 6010D
	Nickel	0.001	0.010	ug/mL		EPA 6010D
	Selenium	-0.001	0.025	ug/mL		EPA 6010D
	Silver	-0.0001	0.005	ug/mL		EPA 6010D
	Thallium	0.002	0.025	ug/mL		EPA 6010D
	Zinc	-0.005	0.025	ug/mL		EPA 6010D

FORM I **BLANKS**

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: WinLabICP Project: 41103.20 Kingston CVS

Sequence: Y0F0902 Calibration: 06/08/20 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y0F0902-ICB1	Antimony	-0.002	0.025	ug/mL		EPA 6010D
	Arsenic	0.005	0.015	ug/mL		EPA 6010D
	Beryllium	-0.00006	0.0005	ug/mL		EPA 6010D
	Cadmium	-0.00006	0.003	ug/mL		EPA 6010D
	Chromium	-0.0003	0.005	ug/mL		EPA 6010D
	Copper	0.0009	0.020	ug/mL		EPA 6010D
	Lead	-0.0001	0.005	ug/mL		EPA 6010D
	Nickel	0.0009	0.010	ug/mL		EPA 6010D
	Selenium	0.005	0.025	ug/mL		EPA 6010D
	Silver	0.0001	0.005	ug/mL		EPA 6010D
	Thallium	0.002	0.025	ug/mL		EPA 6010D
	Zinc	-0.0008	0.025	ug/mL		EPA 6010D
Y0F0902-CCB1	Antimony	-0.002	0.025	ug/mL		EPA 6010D
	Arsenic	0.005	0.015	ug/mL		EPA 6010D
	Beryllium	-0.00003	0.0005	ug/mL		EPA 6010D
	Cadmium	-0.0001	0.003	ug/mL		EPA 6010D
	Chromium	0.00007	0.005	ug/mL		EPA 6010D
	Copper	0.001	0.020	ug/mL		EPA 6010D
	Lead	0.0005	0.005	ug/mL		EPA 6010D
	Nickel	0.0008	0.010	ug/mL		EPA 6010D
	Selenium	0.007	0.025	ug/mL		EPA 6010D
	Silver	-0.0002	0.005	ug/mL		EPA 6010D
	Thallium	-0.0004	0.025	ug/mL		EPA 6010D
	Zinc	-0.0008	0.025	ug/mL		EPA 6010D
Y0F0902-CCB6	Antimony	-0.0006	0.025	ug/mL		EPA 6010D
	Arsenic	0.003	0.015	ug/mL		EPA 6010D
	Beryllium	-0.00008	0.0005	ug/mL		EPA 6010D
	Cadmium	-0.0001	0.003	ug/mL		EPA 6010D
	Chromium	-0.0004	0.005	ug/mL		EPA 6010D
	Copper	0.002	0.020	ug/mL		EPA 6010D
	Lead	0.0002	0.005	ug/mL		EPA 6010D
	Nickel	-0.004	0.010	ug/mL		EPA 6010D
	Selenium	-0.001	0.025	ug/mL		EPA 6010D

FORM I **BLANKS**

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: WinLabICP Project: 41103.20 Kingston CVS

Sequence: Y0F0902 Calibration: 06/08/20 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y0F0902-CCB6	Silver	-0.00009	0.005	ug/mL		EPA 6010D
	Thallium	0.002	0.025	ug/mL		EPA 6010D
	Zinc	-0.0004	0.025	ug/mL		EPA 6010D
Y0F0902-CCB7	Antimony	0.001	0.025	ug/mL		EPA 6010D
	Arsenic	0.003	0.015	ug/mL		EPA 6010D
	Beryllium	-0.00004	0.0005	ug/mL		EPA 6010D
	Cadmium	-0.00006	0.003	ug/mL		EPA 6010D
	Chromium	-0.0003	0.005	ug/mL		EPA 6010D
	Copper	0.001	0.020	ug/mL		EPA 6010D
	Lead	-0.001	0.005	ug/mL		EPA 6010D
	Nickel	-0.002	0.010	ug/mL		EPA 6010D
	Selenium	-0.005	0.025	ug/mL		EPA 6010D
	Silver	-0.0008	0.005	ug/mL		EPA 6010D
	Thallium	0.001	0.025	ug/mL		EPA 6010D
	Zinc	-0.0006	0.025	ug/mL		EPA 6010D

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Sequence:	Y0F0524	Instrument:	WinLabICP
		Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	Y0F0524-ICV1	qbi060520ARE_1-001	06/05/20 10:14
Initial Cal Blank	Y0F0524-ICB1	qbi060520ARE_1-002	06/05/20 10:17
Instrument RL Check	Y0F0524-CRL1	qbi060520ARE_1-003	06/05/20 10:20
Interference Check A	Y0F0524-IFA1	qbi060520ARE_1-005	06/05/20 10:26
Interference Check B	Y0F0524-IFB1	qbi060520ARE_1-006	06/05/20 10:28
Calibration Check	Y0F0524-CCV1	qbi060520ARE_1-007	06/05/20 10:31
Calibration Blank	Y0F0524-CCB1	qbi060520ARE_1-008	06/05/20 10:34
Calibration Check	Y0F0524-CCV7	qbi060520ARE_1-079	06/05/20 13:44
Calibration Blank	Y0F0524-CCB7	qbi060520ARE_1-080	06/05/20 13:47
Blank	BF00209-BLK1	qbi060520ARE_1-086	06/05/20 14:05
LCS	BF00209-BS1	qbi060520ARE_1-087	06/05/20 14:08
Calibration Check	Y0F0524-CCV8	qbi060520ARE_1-091	06/05/20 14:18
Calibration Blank	Y0F0524-CCB8	qbi060520ARE_1-092	06/05/20 14:21

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Sequence:	Y0F0902	Instrument:	WinLabICP
		Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	Y0F0902-ICV1	qbi060820ARE_1-001	06/08/20 11:39
Initial Cal Blank	Y0F0902-ICB1	qbi060820ARE_1-002	06/08/20 11:42
Instrument RL Check	Y0F0902-CRL1	qbi060820ARE_1-003	06/08/20 11:45
Interference Check A	Y0F0902-IFA1	qbi060820ARE_1-005	06/08/20 11:51
Interference Check B	Y0F0902-IFB1	qbi060820ARE_1-006	06/08/20 11:53
Calibration Check	Y0F0902-CCV1	qbi060820ARE_1-007	06/08/20 11:56
Calibration Blank	Y0F0902-CCB1	qbi060820ARE_1-008	06/08/20 11:59
Calibration Check	Y0F0902-CCV6	qbi060820ARE_1-067	06/08/20 14:53
Calibration Blank	Y0F0902-CCB6	qbi060820ARE_1-068	06/08/20 14:56
KC-MW-01 0620	20F0067-01	qbi060820ARE_1-071	06/08/20 15:04
KC-MW-02 0620	20F0067-02	qbi060820ARE_1-072	06/08/20 15:07
KC-MW-05 0620	20F0067-03	qbi060820ARE_1-073	06/08/20 15:10
KC-MW-DUP 0620	20F0067-06	qbi060820ARE_1-074	06/08/20 15:13
Calibration Check	Y0F0902-CCV7	qbi060820ARE_1-079	06/08/20 15:28
Calibration Blank	Y0F0902-CCB7	qbi060820ARE_1-080	06/08/20 15:31

HOLDING TIME SUMMARY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
KC-MW-01 0620	06/01/20 12:39	06/02/20 19:05	06/03/20 15:02	2.10	180.00	06/08/20 15:04	7.10	180.00	
KC-MW-02 0620	06/01/20 11:20	06/02/20 19:05	06/03/20 15:02	2.15	180.00	06/08/20 15:07	7.16	180.00	
KC-MW-05 0620	06/01/20 10:30	06/02/20 19:05	06/03/20 15:02	2.19	180.00	06/08/20 15:10	7.19	180.00	
KC-MW-DUP 0620	06/01/20 00:00	06/02/20 19:05	06/03/20 15:02	2.63	180.00	06/08/20 15:13	7.63	180.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20F0067

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.20 Kingston CVS

Matrix: Water **Instrument:** WinLabICP

Analyte	LOD	LOQ	Units
Antimony	0.025	0.025	mg/L
Arsenic	0.015	0.015	mg/L
Beryllium	0.0005	0.0005	mg/L
Cadmium	0.003	0.003	mg/L
Chromium	0.005	0.005	mg/L
Copper	0.020	0.020	mg/L
Lead	0.005	0.005	mg/L
Nickel	0.010	0.010	mg/L
Selenium	0.025	0.025	mg/L
Silver	0.005	0.005	mg/L
Thallium	0.025	0.025	mg/L
Zinc	0.025	0.025	mg/L

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-01 0620

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Matrix: Water Laboratory ID: 20F0067-01 File ID: qbi060820ARE_1-071

Sampled: 06/01/20 12:39 Prepared: 06/03/20 15:02 Analyzed: 06/08/20 15:04

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BF00209 Sequence: Y0F0902 Calibration: 06/08/20 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.028	1	U	EPA 6010D
7440-38-2	Arsenic	0.027	1		EPA 6010D
7440-41-7	Beryllium	0.0006	1	U	EPA 6010D
7440-43-9	Cadmium	0.012	1		EPA 6010D
7440-47-3	Chromium	0.019	1		EPA 6010D
7440-50-8	Copper	0.027	1		EPA 6010D
7439-92-1	Lead	0.006	1	U	EPA 6010D
7440-02-0	Nickel	0.328	1		EPA 6010D
7782-49-2	Selenium	0.103	1		EPA 6010D
7440-22-4	Silver	0.006	1	U	EPA 6010D
7440-28-0	Thallium	0.028	1	U	EPA 6010D
7440-66-6	Zinc	0.036	1		EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-02 0620

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Matrix: Water Laboratory ID: 20F0067-02 File ID: qbi060820ARE_1-072

Sampled: 06/01/20 11:20 Prepared: 06/03/20 15:02 Analyzed: 06/08/20 15:07

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BF00209 Sequence: Y0F0902 Calibration: 06/08/20 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.028	1	U	EPA 6010D
7440-38-2	Arsenic	0.017	1	U	EPA 6010D
7440-41-7	Beryllium	0.0006	1	U	EPA 6010D
7440-43-9	Cadmium	0.003	1	U	EPA 6010D
7440-47-3	Chromium	0.006	1	U	EPA 6010D
7440-50-8	Copper	0.022	1	U	EPA 6010D
7439-92-1	Lead	0.006	1	U	EPA 6010D
7440-02-0	Nickel	0.011	1	U	EPA 6010D
7782-49-2	Selenium	0.029	1		EPA 6010D
7440-22-4	Silver	0.006	1	U	EPA 6010D
7440-28-0	Thallium	0.028	1	U	EPA 6010D
7440-66-6	Zinc	0.028	1	U	EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-05 0620

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Matrix: Water Laboratory ID: 20F0067-03 File ID: qbi060820ARE_1-073

Sampled: 06/01/20 10:30 Prepared: 06/03/20 15:02 Analyzed: 06/08/20 15:10

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BF00209 Sequence: Y0F0902 Calibration: 06/08/20 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.028	1	U	EPA 6010D
7440-38-2	Arsenic	0.017	1	U	EPA 6010D
7440-41-7	Beryllium	0.0006	1	U	EPA 6010D
7440-43-9	Cadmium	0.010	1		EPA 6010D
7440-47-3	Chromium	0.013	1		EPA 6010D
7440-50-8	Copper	0.022	1	U	EPA 6010D
7439-92-1	Lead	0.006	1	U	EPA 6010D
7440-02-0	Nickel	0.321	1		EPA 6010D
7782-49-2	Selenium	0.097	1		EPA 6010D
7440-22-4	Silver	0.006	1	U	EPA 6010D
7440-28-0	Thallium	0.028	1	U	EPA 6010D
7440-66-6	Zinc	0.028	1	U	EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-DUP 0620

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Matrix: Water Laboratory ID: 20F0067-06 File ID: qbi060820ARE_1-074

Sampled: 06/01/20 00:00 Prepared: 06/03/20 15:02 Analyzed: 06/08/20 15:13

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BF00209 Sequence: Y0F0902 Calibration: 06/08/20 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	0.028	1	U	EPA 6010D
7440-38-2	Arsenic	0.017	1	U	EPA 6010D
7440-41-7	Beryllium	0.0006	1	U	EPA 6010D
7440-43-9	Cadmium	0.003	1	U	EPA 6010D
7440-47-3	Chromium	0.006	1	U	EPA 6010D
7440-50-8	Copper	0.022	1	U	EPA 6010D
7439-92-1	Lead	0.006	1	U	EPA 6010D
7440-02-0	Nickel	0.011	1	U	EPA 6010D
7782-49-2	Selenium	0.039	1		EPA 6010D
7440-22-4	Silver	0.006	1	U	EPA 6010D
7440-28-0	Thallium	0.028	1	U	EPA 6010D
7440-66-6	Zinc	0.028	1	U	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Instrument ID: WinLabICP
Calibration: 06/05/20
Control Limt: +/- 10.00%
Sequence: Y0F0524

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y0F0524-ICV1	Antimony	0.250	0.265	106	ug/mL	EPA 6010D
	Arsenic	0.250	0.251	101	ug/mL	EPA 6010D
	Beryllium	0.250	0.241	96.2	ug/mL	EPA 6010D
	Cadmium	0.125	0.123	98.3	ug/mL	EPA 6010D
	Chromium	1.00	0.996	99.6	ug/mL	EPA 6010D
	Copper	1.25	1.23	98.7	ug/mL	EPA 6010D
	Lead	0.250	0.248	99.0	ug/mL	EPA 6010D
	Nickel	2.50	2.42	96.7	ug/mL	EPA 6010D
	Selenium	0.250	0.262	105	ug/mL	EPA 6010D
	Silver	1.25	1.25	99.9	ug/mL	EPA 6010D
	Thallium	0.250	0.244	97.4	ug/mL	EPA 6010D
	Zinc	2.50	2.43	97.2	ug/mL	EPA 6010D
Y0F0524-CCV1	Antimony	0.250	0.258	103	ug/mL	EPA 6010D
	Arsenic	0.500	0.502	100	ug/mL	EPA 6010D
	Beryllium	0.250	0.253	101	ug/mL	EPA 6010D
	Cadmium	0.250	0.249	99.4	ug/mL	EPA 6010D
	Chromium	1.00	1.01	101	ug/mL	EPA 6010D
	Copper	1.25	1.25	100	ug/mL	EPA 6010D
	Lead	0.500	0.500	100	ug/mL	EPA 6010D
	Nickel	2.50	2.50	100	ug/mL	EPA 6010D
	Selenium	0.500	0.493	98.6	ug/mL	EPA 6010D
	Silver	1.25	1.26	101	ug/mL	EPA 6010D
	Thallium	0.500	0.498	99.6	ug/mL	EPA 6010D
	Zinc	2.50	2.53	101	ug/mL	EPA 6010D
Y0F0524-CCV7	Antimony	0.250	0.252	101	ug/mL	EPA 6010D
	Arsenic	0.500	0.516	103	ug/mL	EPA 6010D
	Beryllium	0.250	0.255	102	ug/mL	EPA 6010D
	Cadmium	0.250	0.255	102	ug/mL	EPA 6010D
	Chromium	1.00	1.06	106	ug/mL	EPA 6010D
	Copper	1.25	1.31	105	ug/mL	EPA 6010D
	Lead	0.500	0.504	101	ug/mL	EPA 6010D
	Nickel	2.50	2.59	103	ug/mL	EPA 6010D
	Selenium	0.500	0.508	102	ug/mL	EPA 6010D
	Silver	1.25	1.32	105	ug/mL	EPA 6010D
	Thallium	0.500	0.509	102	ug/mL	EPA 6010D
	Zinc	2.50	2.57	103	ug/mL	EPA 6010D
Y0F0524-CCV8	Antimony	0.250	0.259	103	ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Instrument ID: WinLabICP
Calibration: 06/05/20
Control Limt: +/- 10.00%
Sequence: Y0F0524

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y0F0524-CCV8	Arsenic	0.500	0.517	103	ug/mL	EPA 6010D
	Beryllium	0.250	0.256	102	ug/mL	EPA 6010D
	Cadmium	0.250	0.256	102	ug/mL	EPA 6010D
	Chromium	1.00	1.06	106	ug/mL	EPA 6010D
	Copper	1.25	1.30	104	ug/mL	EPA 6010D
	Lead	0.500	0.511	102	ug/mL	EPA 6010D
	Nickel	2.50	2.59	104	ug/mL	EPA 6010D
	Selenium	0.500	0.509	102	ug/mL	EPA 6010D
	Silver	1.25	1.31	105	ug/mL	EPA 6010D
	Thallium	0.500	0.510	102	ug/mL	EPA 6010D
	Zinc	2.50	2.61	105	ug/mL	EPA 6010D

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Instrument ID: WinLabICP
Calibration: 06/08/20
Control Limt: +/- 10.00%
Sequence: Y0F0902

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y0F0902-ICV1	Antimony	0.250	0.263	105	ug/mL	EPA 6010D
	Arsenic	0.250	0.251	100	ug/mL	EPA 6010D
	Beryllium	0.250	0.243	97.3	ug/mL	EPA 6010D
	Cadmium	0.125	0.125	100	ug/mL	EPA 6010D
	Chromium	1.00	1.01	101	ug/mL	EPA 6010D
	Copper	1.25	1.22	97.9	ug/mL	EPA 6010D
	Lead	0.250	0.253	101	ug/mL	EPA 6010D
	Nickel	2.50	2.45	98.0	ug/mL	EPA 6010D
	Selenium	0.250	0.271	108	ug/mL	EPA 6010D
	Silver	1.25	1.24	99.0	ug/mL	EPA 6010D
	Thallium	0.250	0.243	97.3	ug/mL	EPA 6010D
	Zinc	2.50	2.53	101	ug/mL	EPA 6010D
Y0F0902-CCV1	Antimony	0.250	0.254	101	ug/mL	EPA 6010D
	Arsenic	0.500	0.480	95.9	ug/mL	EPA 6010D
	Beryllium	0.250	0.243	97.2	ug/mL	EPA 6010D
	Cadmium	0.250	0.246	98.4	ug/mL	EPA 6010D
	Chromium	1.00	1.01	101	ug/mL	EPA 6010D
	Copper	1.25	1.24	99.1	ug/mL	EPA 6010D
	Lead	0.500	0.487	97.4	ug/mL	EPA 6010D
	Nickel	2.50	2.46	98.5	ug/mL	EPA 6010D
	Selenium	0.500	0.485	96.9	ug/mL	EPA 6010D
	Silver	1.25	1.25	100	ug/mL	EPA 6010D
	Thallium	0.500	0.486	97.2	ug/mL	EPA 6010D
	Zinc	2.50	2.50	99.9	ug/mL	EPA 6010D
Y0F0902-CCV6	Antimony	0.250	0.241	96.3	ug/mL	EPA 6010D
	Arsenic	0.500	0.484	96.8	ug/mL	EPA 6010D
	Beryllium	0.250	0.243	97.1	ug/mL	EPA 6010D
	Cadmium	0.250	0.241	96.3	ug/mL	EPA 6010D
	Chromium	1.00	1.01	101	ug/mL	EPA 6010D
	Copper	1.25	1.25	100	ug/mL	EPA 6010D
	Lead	0.500	0.484	96.8	ug/mL	EPA 6010D
	Nickel	2.50	2.46	98.5	ug/mL	EPA 6010D
	Selenium	0.500	0.492	98.4	ug/mL	EPA 6010D
	Silver	1.25	1.27	102	ug/mL	EPA 6010D
	Thallium	0.500	0.483	96.5	ug/mL	EPA 6010D
	Zinc	2.50	2.43	97.1	ug/mL	EPA 6010D
Y0F0902-CCV7	Antimony	0.250	0.230	92.1	ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Instrument ID: WinLabICP
Calibration: 06/08/20
Control Limt: +/- 10.00%
Sequence: Y0F0902

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y0F0902-CCV7	Arsenic	0.500	0.466	93.2	ug/mL	EPA 6010D
	Beryllium	0.250	0.236	94.2	ug/mL	EPA 6010D
	Cadmium	0.250	0.234	93.7	ug/mL	EPA 6010D
	Chromium	1.00	0.981	98.1	ug/mL	EPA 6010D
	Copper	1.25	1.22	97.2	ug/mL	EPA 6010D
	Lead	0.500	0.467	93.4	ug/mL	EPA 6010D
	Nickel	2.50	2.40	95.8	ug/mL	EPA 6010D
	Selenium	0.500	0.471	94.3	ug/mL	EPA 6010D
	Silver	1.25	1.23	98.5	ug/mL	EPA 6010D
	Thallium	0.500	0.475	95.0	ug/mL	EPA 6010D
	Zinc	2.50	2.36	94.4	ug/mL	EPA 6010D

* Values outside of QC limits

CRDL STANDARD

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Instrument ID: WinLabICP
Calibration: 06/05/20
Sequence: Y0F0524

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
Y0F0524-CRL1	Antimony	0.0250	0.031	125	ug/mL	70 - 130
	Arsenic	0.0150	0.012	79.4	ug/mL	70 - 130
	Beryllium	0.000500	0.0005	107	ug/mL	70 - 130
	Cadmium	0.00300	0.004	120	ug/mL	70 - 130
	Chromium	0.00500	0.006	114	ug/mL	70 - 130
	Copper	0.0400	0.042	104	ug/mL	70 - 130
	Lead	0.00500	0.005	101	ug/mL	70 - 130
	Nickel	0.0100	0.002	16.6 *	ug/mL	70 - 130
	Selenium	0.0250	0.021	85.8	ug/mL	70 - 130
	Silver	0.0100	0.011	112	ug/mL	70 - 130
	Thallium	0.0250	0.023	93.2	ug/mL	70 - 130
	Zinc	0.0250	0.061	246 *	ug/mL	70 - 130

* Values outside of QC limits

CRDL STANDARD

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Instrument ID: WinLabICP
Calibration: 06/08/20
Sequence: Y0F0902

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
Y0F0902-CRL1	Antimony	0.0250	0.025	102	ug/mL	70 - 130
	Arsenic	0.0150	0.017	114	ug/mL	70 - 130
	Beryllium	0.000500	0.0005	103	ug/mL	70 - 130
	Cadmium	0.00300	0.003	103	ug/mL	70 - 130
	Chromium	0.00500	0.005	100	ug/mL	70 - 130
	Copper	0.0400	0.037	92.3	ug/mL	70 - 130
	Lead	0.00500	0.005	95.0	ug/mL	70 - 130
	Nickel	0.0100	0.008	79.7	ug/mL	70 - 130
	Selenium	0.0250	0.022	86.5	ug/mL	70 - 130
	Silver	0.0100	0.009	89.2	ug/mL	70 - 130
	Thallium	0.0250	0.023	93.7	ug/mL	70 - 130
	Zinc	0.0250	0.050	201 *	ug/mL	70 - 130

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Instrument ID: WinLabICP
Calibration: 06/05/20
Sequence: Y0F0524

Lab Sample ID	Analyte	True	Found	%R	Units
Y0F0524-IFA1	Antimony		0.00		ug/mL
	Arsenic		0.00		ug/mL
	Beryllium		0.00		ug/mL
	Cadmium		0.00		ug/mL
	Chromium		0.00		ug/mL
	Copper		0.00		ug/mL
	Lead		0.00		ug/mL
	Nickel		0.00		ug/mL
	Selenium		0.00		ug/mL
	Silver		0.00		ug/mL
	Thallium		0.00		ug/mL
	Zinc		0.00		ug/mL
Y0F0524-IFB1	Antimony	0.500	0.51	102	ug/mL
	Arsenic	0.500	0.51	101	ug/mL
	Beryllium	0.500	0.50	99.5	ug/mL
	Cadmium	1.00	0.96	96.0	ug/mL
	Chromium	0.500	0.50	99.2	ug/mL
	Copper	0.500	0.57	114	ug/mL
	Lead	1.00	1.04	104	ug/mL
	Nickel	1.00	1.08	108	ug/mL
	Selenium	0.500	0.46	91.8	ug/mL
	Silver	1.00	1.10	110	ug/mL
	Thallium	0.500	0.51	103	ug/mL
	Zinc	1.00	0.98	98.3	ug/mL

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Instrument ID: WinLabICP
Calibration: 06/08/20
Sequence: Y0F0902

Lab Sample ID	Analyte	True	Found	%R	Units
Y0F0902-IFA1	Antimony		0.00		ug/mL
	Arsenic		0.00		ug/mL
	Beryllium		0.00		ug/mL
	Cadmium		0.00		ug/mL
	Chromium		0.00		ug/mL
	Copper		0.00		ug/mL
	Lead		0.00		ug/mL
	Nickel		0.00		ug/mL
	Selenium		0.00		ug/mL
	Silver		0.00		ug/mL
	Thallium		0.00		ug/mL
	Zinc		0.00		ug/mL
Y0F0902-IFB1	Antimony	0.500	0.49	97.8	ug/mL
	Arsenic	0.500	0.48	96.8	ug/mL
	Beryllium	0.500	0.48	95.7	ug/mL
	Cadmium	1.00	0.92	92.2	ug/mL
	Chromium	0.500	0.47	94.9	ug/mL
	Copper	0.500	0.55	109	ug/mL
	Lead	1.00	0.99	99.0	ug/mL
	Nickel	1.00	1.01	101	ug/mL
	Selenium	0.500	0.44	88.5	ug/mL
	Silver	1.00	1.05	105	ug/mL
	Thallium	0.500	0.49	98.4	ug/mL
	Zinc	1.00	0.93	92.6	ug/mL

* Values outside of QC limits

Metals Linear Dynamic Range

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Instrument: WinLabICP

CAS NO.	Analyte	Concentration mg/L
7440-36-0	Antimony	50
7440-38-2	Arsenic	250
7440-41-7	Beryllium	12.5
7440-43-9	Cadmium	30
7440-47-3	Chromium	50
7440-50-8	Copper	62.5
7439-92-1	Lead	150
7440-02-0	Nickel	125
7782-49-2	Selenium	100
7440-22-4	Silver	62.5
7440-28-0	Thallium	125
7440-66-6	Zinc	30

IEC File Last Saved: 6/5/2020 11:56:46 AM
Printed On: 6/5/2020 11:56:57 AM

Results Data Set Name: qbi030415
Method Name: METHOD FOR IE
Results Library: C:\pe\Mikew\Results\Results.md

Interfering Analytes

	Analytes	Al RADIAL	Ca RADIAL	Fe RADIAL	Mg RADIAL
1	**Ag 338.289**	0	0.011281	-0.02	0
2	**Al 308.215**	0	0.0245069	-0.0817898	0.0376104
3	**Al RADIAL**	**n/a**	0.0296996	-0.105128	0
4	**As 188.979**	0	0	-0.01	0
7	**Ca 227.546**	-0.675005	0	-8.62387	-0.0625929
9	**Cd 226.502**	0	0	0.09	0
10	**Co 228.616**	0	0	-0.01	0
11	**Cr 267.716**	0	0	-0.035	0
12	**Cu 324.752**	0	0	-0.01	0
16	**Mg 279.077**	0	0	0.161547	0
17	**Mg RADIAL**	0	0	0.0994223	**n/a**
18	**Mn 257.610**	0	0	-0.195	0
19	**Na 330.237**	0	-0.983571	-4.63141	0
21	**Ni 232.003**	0	0	-0.11	0
22	**Pb 220.353**	-0.129664	-0.0141428	0.07	0
23	**Sb 206.836**	0.000505	0	-0.06	0
24	**Se 196.026**	0	0	0.655	0
25	**Tl 190.801**	0	0	-0.13	0
26	**V 292.402**	0	0	0.04	0
27	**Y 371.029**	9.77357	9.1591	24.475	8.93015
28	**Y RADIAL**	10.2987	9.68204	24.8989	9.399
29	**Zn 206.200**	0	0	0.09	0

IEC File Last Saved: 6/8/2020 12:59:48 PM
Printed On: 6/9/2020 9:30:28 AM

Results Data Set Name: qbi030415
Method Name: METHOD FOR IE
Results Library: C:\pe\Mikew\Results\Results.md

Interfering Analytes

	Analytes	Al RADIAL	Ca RADIAL	Fe RADIAL	Mg RADIAL
1	**Ag 338.289**	0	0.011281	-0.02	0
2	**Al 308.215**	0	0.0245069	-0.0817898	0.0376104
3	**Al RADIAL**	**n/a**	0.0296996	-0.105128	0
4	**As 188.979**	0	0	0.075	0
7	**Ca 227.546**	-0.675005	0	-8.62387	-0.0625929
9	**Cd 226.502**	0	0	0.09	0
10	**Co 228.616**	0	0	-0.01	0
11	**Cr 267.716**	0	0	-0.035	0
12	**Cu 324.752**	0	0	-0.005	0
16	**Mg 279.077**	0	0	0.161547	0
17	**Mg RADIAL**	0	0	0.0994223	**n/a**
18	**Mn 257.610**	0	0	-0.195	0
19	**Na 330.237**	0	-0.983571	-4.63141	0
21	**Ni 232.003**	0	0	-0.16	0
22	**Pb 220.353**	-0.129664	-0.0141428	0.075	0
23	**Sb 206.836**	0.000505	0	-0.07	0
24	**Se 196.026**	0	0	0.695	0
25	**Tl 190.801**	0	0	-0.125	0
26	**V 292.402**	0	0	0.01	0
27	**Y 371.029**	9.77357	9.1591	24.475	8.93015
28	**Y RADIAL**	10.2987	9.68204	24.8989	9.399
29	**Zn 206.200**	0	0	0.125	0

BENCHSHEETS

SDG: 20F0067

CLASS: METALS

METHOD: EPA 6010D

PREPARATION BENCH SHEET-AQUEOUS: BF00209

Prepared: **06/03/2020 15:02**

York Analytical Laboratories, Inc.

Printed: 6/9/2020 6:49:15AM

Matrix: Water **Preparation EPA 3015A** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
20E0905-08 T	Metals, Target Ana	45	50							NA			
20E0905-08 T	Metals, Priority Po	45	50							NA			Added for BatchQC in: BF00209
20E0929-20 I	Metals, Target Ana	45	50							NA			
20F0048-01 I	Metals, Target Ana	45	50							NA			
20F0048-02 I	Metals, Target Ana	45	50							NA			
20F0049-01 I	Metals, Target Ana	45	50							NA			
20F0049-02 I	Metals, Target Ana	45	50							NA			
20F0049-03 I	Metals, Target Ana	45	50							NA			
20F0049-04 I	Metals, Target Ana	45	50							NA			
20F0049-05 I	Metals, Target Ana	45	50							NA			
20F0049-06 I	Metals, Target Ana	45	50							NA			
20F0067-01 E	Metals, Priority Po	45	50							NA			
20F0067-02 D	Metals, Priority Po	45	50							NA			
20F0067-03 D	Metals, Priority Po	45	50							NA			
20F0067-06 D	Metals, Priority Po	45	50							NA			
BF00209-BLK1	QC	45	50							NA			
BF00209-BS1	QC	45	50	Y20D195	1					NA			
BF00209-DUP1	QC	45	50					20E0905-08		NA			
BF00209-MS1	QC	45	50	Y20D194	500			20E0905-08		NA			
BF00209-PS1	QC	10	10	Y20C108	100			20E0905-08		NA			[Spk] 50mL->50mL; 50mL->50mL

Reagents:

ID Number	Description	Lot Number
Y20B219	Nitric Acid , ACS Grade 69-70%	0000239873

ID Number	Description	Lot Number
Y20E185	Hydrochloric Acid, ACS Grade 37%	0000248192

Preparation Performed by SY **Date:** 06/03/2020 15:02

Sample Information Detail Report
Document Name: 060520A

File Description
Sample Information File

Parameters Common to All Samples

Batch ID	060520A
Analyst Name	KML
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Remarks
1	3	SEQ-ICV1	
2	4	SEQ-ICB1	
3	5	SEQ-CRL1	
4	6	SEQ-CRL2	
5	7	SEQ-IFA1	
6	8	SEQ-IFB1	
7	9	SEQ-CCV1	
8	4	SEQ-CCB1	
9	101	BF000254-BLK1	
10	102	BF00254-SRM1	
11	103	20F0124-01	
12	104	20F0124-02	
13	105	20F0124-03	
14	106	20F0124-04	
15	107	20F0124-05	
16	108	20F0124-06	
17	109	20F0124-07	
18	110	20F0124-08	
19	9	SEQ-CCV2	
20	4	SEQ-CCB2	
21	111	20F0124-09	
22	112	20F0124-10	
23	113	20F0124-11	
24	114	20F0124-12	
25	115	20F0124-13	
26	116	20F0124-14	
27	117	20F0124-15	
28	118	20F0124-16	
29	119	20F0124-17	
30	120	20F0124-18	
31	9	SEQ-CCV3	
32	4	SEQ-CCB3	
33	121	20F0124-19	
34	122	BF00254-DUP1	
35	123	BF00254-MS1	
36	124	BF00254-PS1	
37	125	SEQ-SRD1	20F0124-19
38	126	BF00255-BLK1	
39	127	BF00255-SRM1	
40	128	20F0124-20	
41	129	20F0124-21	
42	130	20F0148-01	
43	9	SEQ-CCV4	
44	4	SEQ-CCB4	
45	131	20F0149-01	
46	132	20F0149-02	
47	133	20F0161-01	
48	134	20F0164-01	
49	135	20F0164-02	
50	136	20F0164-03	
51	137	20F0164-04	
52	138	20F0164-05	
53	139	20F0165-01	
54	140	20F0165-02	
55	9	SEQ-CCV5	

56	4	SEQ-CCB5	
57	141	20F0165-03	
58	142	20F0165-04	
59	143	20F0165-05	
60	144	20F0165-06	
61	145	20F0166-01	
62	146	20F0166-03	
63	147	BF00255-DUP1	
64	148	BF00255-MS1	
65	149	BF00255-PS1	
66	150	SEQ-SRD2	20F0164-04
67	9	SEQ-CCV6	
68	4	SEQ-CCB6	
69	151	20E0830-01RE1	BE01217 10X
70	152	BF00270-BLK1	
71	153	BF00270-BS1	
72	154	20F0107-02	
73	155	20F0109-02	
74	156	20F0109-04	
75	157	20F0109-06	
76	158	20F0109-08	
77	159	20F0132-01	
78	160	20F0096-04	BF00272
79	9	SEQ-CCV7	
80	4	SEQ-CCB7	
81	201	20F0096-10	BF00272
82	202	20F0096-16	BF00272
83	203	20F0096-22	BF00272
84	204	20F0096-28	BF00272
85	205	20F0096-34	BF00272
86	206	BF00209-BLK1	
87	207	BF00209-BS1	
88	208	20E0905-08	
89	209	BF00209-DUP1	
90	210	BF00209-MS1	
91	9	SEQ-CCV8	
92	4	SEQ-CCB8	
93	211	BF00209-PS1	
94	212	20F0929-20	
95	213	SEQ-SRD3	20E0905-08
96	214	BF00303-BLK1	
97	215	BF00303-SRM1	
98	216	20F0186-01	
99	217	20F0217-01	
100	218	BF00303-DUP1	
101	219	BF00303-MS1	
102	220	BF00303-PS1	
103	9	SEQ-CCV9	
104	4	SEQ-CCB9	
105	221	SEQ-SRD4	20F0217-01
106	222	BF00340-BLK1	
107	223	BF00340-BS1	
108	224	20E0905-08	
109	225	BF00340-DUP1	
110	226	BF00340-MS1	
111	227	BF00340-PS1	
112	228	20F0067-01	
113	229	SEQ-SRD5	20E0905-08
114	230	BF00289-BLK1	
115	10	SEQ-CCVA	
116	1	SEQ-CCBA	
117	231	BF00289-SRM1	
118	232	20F0147-01	
119	233	BF00355-BLK1	
120	234	BF00355-LBK1	
121	235	BF00355-BS1	
122	236	20E0901-01	
123	237	20E0901-02	

124	238	20E0904-01	
125	239	20F0001-01	
126	240	20F0147-01	
127	10	SEQ-CCVB	
128	1	SEQ-CCBB	
129	241	20F0134-01	BF00237
130	242	20F0163-05	BF00270
131	243	20F0110-01	BF00237
132	244	20F0110-02	BF00237
133	245	20F0110-03	BF00237
134	246	20F0110-04	BF00237
135	247	20F0110-05	BF00237
136	248	20F0114-01	BF00237
137	249	20F0122-01	BF00237
138	250	20F0143-01	BF00237
139	10	SEQ-CCVC	
140	1	SEQ-CCBC	
141	251	20F0143-02	BF00237
142	252	20F0143-03	BF00237
143	253	20F0143-04	BF00237
144	254	20F0143-05	BF00237
145	255	20F0162-01	BF00237
146	10	SEQ-CCVD	
147	1	SEQ-CCBD	
148	5	SEQ-CRL3	
149	6	SEQ-CRL4	
150	7	SEQ-IFA2	
151	8	SEQ-IFB2	
152	405	SEQ-HCV1	
153	1	BLANK1	
154	1	BLANK2	
155	10	SEQ-CCVE	
156	1	SEQ-CCBE	

Reprocessing Begun
Logged In Analyst: john Technique: ICP Continuous

Results Data Set (original): qbi060520A
Results Library (original): C:\pe\rqb\Results\Results 042020.mdb
Results Data Set (reprocessed): qbi060520ARE_1
Results Library (reprocessed): C:\pe\john\Results\Results 042020.mdb

Method Loaded
Method Name: TAL METH_091119FAS Method Last Saved: 9/11/2019 12:48:20 PM
IEC File: IEC 060719A.iec MSF File:
Method Description: TAL METALS

Sequence No.: 1 Autosampler Location: 1
Sample ID: Calib Blank 1 Date Collected: 6/5/2020 10:09:10 AM
Analyst: Data Type: Reprocessed on 6/8/2020 9:10:01 AM
Logged In Analyst (Original) : rqb
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	16186052.2	85081.98	0.53%	5.000	mg/L
Y RADIAL	283439.6	2530.11	0.89%	5.000	mg/L
As 188.979†	-39.5	6.26	15.84%	[0.00]	mg/L
Tl 190.801†	-63.2	7.56	11.96%	[0.00]	mg/L
Se 196.026†	85.9	17.01	19.81%	[0.00]	mg/L
Zn 206.200†	118.4	7.08	5.98%	[0.00]	mg/L
Sb 206.836†	75.3	6.11	8.12%	[0.00]	mg/L
Pb 220.353†	116.6	6.67	5.72%	[0.00]	mg/L
Cd 226.502†	-227.7	9.74	4.28%	[0.00]	mg/L
Co 228.616†	38.5	18.27	47.46%	[0.00]	mg/L
Ni 232.003†	-1284.5	9.03	0.70%	[0.00]	mg/L
Ba 233.527†	47.8	8.75	18.30%	[0.00]	mg/L
Mn 257.610†	252.4	20.52	8.13%	[0.00]	mg/L
Cr 267.716†	327.1	101.41	31.00%	[0.00]	mg/L
Fe 273.955†	-471.2	27.61	5.86%	[0.00]	mg/L
Mg 279.077†	-1015.9	64.24	6.32%	[0.00]	mg/L
V 292.402†	511.1	133.48	26.12%	[0.00]	mg/L
Al 308.215†	12984.2	67.59	0.52%	[0.00]	mg/L
Be 313.107†	-13610.7	123.00	0.90%	[0.00]	mg/L
Cu 324.752†	5181.5	46.03	0.89%	[0.00]	mg/L
Ag 338.289†	1475.4	53.70	3.64%	[0.00]	mg/L
Na 330.237†	783.6	31.52	4.02%	[0.00]	mg/L
Ca 227.546†	-253.2	9.15	3.61%	[0.00]	mg/L
Al RADIAL†	345.4	22.90	6.63%	[0.00]	mg/L
Fe RADIAL†	-36.3	1.79	4.94%	[0.00]	mg/L
Ca RADIAL†	2727.7	51.02	1.87%	[0.00]	mg/L
K RADIAL†	-1211.1	33.33	2.75%	[0.00]	mg/L
Mg RADIAL†	-176.5	14.50	8.21%	[0.00]	mg/L
Na RADIAL†	-73.4	100.92	137.42%	[0.00]	mg/L

Sequence No.: 2
Sample ID: CAL STD 1
Analyst:
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/5/2020 10:12:08 AM
Data Type: Reprocessed on 6/8/2020 9:10:02 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CAL STD 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	15817632.1	81620.33	0.52%	4.886	mg/L
Y RADIAL	282115.7	676.24	0.24%	4.977	mg/L
As 188.979†	1328.9	12.11	0.91%	[1.0000]	mg/L
Tl 190.801†	1889.2	15.71	0.83%	[1.0000]	mg/L
Se 196.026†	2003.9	10.67	0.53%	[1.0000]	mg/L
Zn 206.200†	147755.6	1838.07	1.24%	[5.0000]	mg/L
Sb 206.836†	1207.9	9.59	0.79%	[0.5000]	mg/L
Pb 220.353†	8793.4	86.58	0.98%	[1.0000]	mg/L
Cd 226.502†	52838.7	645.32	1.22%	[0.5000]	mg/L
Co 228.616†	156019.1	1614.04	1.03%	[5.0000]	mg/L
Ni 232.003†	84152.3	817.75	0.97%	[5.0000]	mg/L
Ba 233.527†	1284645.5	13660.92	1.06%	[20.0000]	mg/L
Mn 257.610†	2863289.2	31631.81	1.10%	[5.0000]	mg/L
Cr 267.716†	230594.3	2714.64	1.18%	[2.0000]	mg/L
Fe 273.955†	177538.6	2039.14	1.15%	[10.0000]	mg/L
Mg 279.077†	860391.8	10688.48	1.24%	[50.0000]	mg/L
V 292.402†	1078199.1	11744.66	1.09%	[5.0000]	mg/L
Al 308.215†	317654.8	3484.17	1.10%	[20.0000]	mg/L
Be 313.107†	2006423.1	23086.19	1.15%	[0.5000]	mg/L
Cu 324.752†	574561.5	5759.28	1.00%	[2.5000]	mg/L
Ag 338.289†	262069.9	2767.94	1.06%	[2.5000]	mg/L
Na 330.237†	28825.8	373.21	1.29%	[50.0000]	mg/L
Ca 227.546†	10566.5	86.16	0.82%	[50.0000]	mg/L
Al RADIAL†	27562.5	108.10	0.39%	[20.0000]	mg/L
Fe RADIAL†	4205.4	15.22	0.36%	[10.0000]	mg/L
Ca RADIAL†	253800.8	193.38	0.08%	[50.0000]	mg/L
K RADIAL†	11505.2	27.32	0.24%	[10.0000]	mg/L
Mg RADIAL†	24167.0	143.39	0.59%	[50.0000]	mg/L
Na RADIAL†	295276.1	480.86	0.16%	[50.0000]	mg/L

Sequence No.: 3
Sample ID: SEQ-ICV1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/5/2020 10:14:36 AM
Data Type: Reprocessed on 6/8/2020 9:10:03 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-ICV1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15875631.8	0.000	mg/L	0.0000				0.00%
Y RADIAL	282920.1	0.000	mg/L	0.0000				0.00%
As 188.979†	333.9	0.2513	mg/L	0.00767	0.2513	mg/L	0.00767	3.05%
Tl 190.801†	459.0	0.2436	mg/L	0.00660	0.2436	mg/L	0.00660	2.71%
Se 196.026†	530.8	0.2617	mg/L	0.00151	0.2617	mg/L	0.00151	0.58%
Zn 206.200†	71801.6	2.429	mg/L	0.0174	2.429	mg/L	0.0174	0.72%
Sb 206.836†	638.7	0.2647	mg/L	0.00640	0.2647	mg/L	0.00640	2.42%
Pb 220.353†	2166.3	0.2476	mg/L	0.00478	0.2476	mg/L	0.00478	1.93%
Cd 226.502†	13028.2	0.1228	mg/L	0.00053	0.1228	mg/L	0.00053	0.43%
Co 228.616†	76686.3	2.458	mg/L	0.0169	2.458	mg/L	0.0169	0.69%
Ni 232.003†	40688.5	2.418	mg/L	0.0181	2.418	mg/L	0.0181	0.75%
Ba 233.527†	629855.2	9.806	mg/L	0.0552	9.806	mg/L	0.0552	0.56%
Mn 257.610†	1409633.1	2.463	mg/L	0.0119	2.463	mg/L	0.0119	0.48%
Cr 267.716†	114823.9	0.9961	mg/L	0.00559	0.9961	mg/L	0.00559	0.56%
Fe 273.955†	87180.3	4.910	mg/L	0.0273	4.910	mg/L	0.0273	0.56%
Mg 279.077†	412712.8	23.98	mg/L	0.138	23.98	mg/L	0.138	0.58%
V 292.402†	523549.9	2.428	mg/L	0.0109	2.428	mg/L	0.0109	0.45%
Al 308.215†	152619.6	9.608	mg/L	0.0527	9.608	mg/L	0.0527	0.55%
Be 313.107†	965521.1	0.24061	mg/L	0.001155	0.24061	mg/L	0.001155	0.48%
Cu 324.752†	283545.9	1.234	mg/L	0.0082	1.234	mg/L	0.0082	0.67%
Ag 338.289†	130964.4	1.249	mg/L	0.0087	1.249	mg/L	0.0087	0.69%
Na 330.237†	13201.4	22.94	mg/L	0.116	22.94	mg/L	0.116	0.51%
Ca 227.546†	4963.4	23.54	mg/L	0.124	23.54	mg/L	0.124	0.52%
Al RADIAL†	13419.3	9.737	mg/L	0.1110	9.737	mg/L	0.1110	1.14%
Fe RADIAL†	2030.9	4.829	mg/L	0.0505	4.829	mg/L	0.0505	1.05%
Ca RADIAL†	120032.4	23.65	mg/L	0.042	23.65	mg/L	0.042	0.18%
K RADIAL†	5634.2	4.897	mg/L	0.0569	4.897	mg/L	0.0569	1.16%
Mg RADIAL†	11671.2	24.15	mg/L	0.278	24.15	mg/L	0.278	1.15%
Na RADIAL†	144105.2	24.40	mg/L	0.076	24.40	mg/L	0.076	0.31%

Sequence No.: 4
Sample ID: SEQ-ICB1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/5/2020 10:17:42 AM
Data Type: Reprocessed on 6/8/2020 9:10:04 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-ICB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15702001.5	0.000	mg/L	0.0000				0.00%
Y RADIAL	277721.8	0.000	mg/L	0.0000				0.00%
As 188.979†	4.6	0.0034	mg/L	0.00706	0.0034	mg/L	0.00706	206.02%
Tl 190.801†	2.3	0.0012	mg/L	0.00209	0.0012	mg/L	0.00209	172.88%
Se 196.026†	-9.0	-0.0045	mg/L	0.00613	-0.0045	mg/L	0.00613	136.10%
Zn 206.200†	-188.9	-0.0064	mg/L	0.00020	-0.0064	mg/L	0.00020	3.16%
Sb 206.836†	3.8	0.0016	mg/L	0.00423	0.0016	mg/L	0.00423	270.31%
Pb 220.353†	-9.0	-0.0010	mg/L	0.00159	-0.0010	mg/L	0.00159	155.00%
Cd 226.502†	14.8	0.0001	mg/L	0.00012	0.0001	mg/L	0.00012	83.42%
Co 228.616†	18.5	0.0006	mg/L	0.00014	0.0006	mg/L	0.00014	23.34%
Ni 232.003†	-49.3	-0.0029	mg/L	0.00053	-0.0029	mg/L	0.00053	18.24%
Ba 233.527†	51.7	0.0008	mg/L	0.00021	0.0008	mg/L	0.00021	26.51%
Mn 257.610†	92.6	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	10.79%
Cr 267.716†	36.4	0.0003	mg/L	0.00056	0.0003	mg/L	0.00056	176.77%
Fe 273.955†	-6.0	-0.0003	mg/L	0.00115	-0.0003	mg/L	0.00115	338.85%
Mg 279.077†	-35.1	-0.0020	mg/L	0.00134	-0.0020	mg/L	0.00134	65.64%
V 292.402†	60.5	0.0003	mg/L	0.00030	0.0003	mg/L	0.00030	108.05%
Al 308.215†	-244.3	-0.0154	mg/L	0.00391	-0.0154	mg/L	0.00391	25.42%
Be 313.107†	348.4	0.00009	mg/L	0.000043	0.00009	mg/L	0.000043	49.11%
Cu 324.752†	-72.3	-0.0003	mg/L	0.00016	-0.0003	mg/L	0.00016	49.63%
Ag 338.289†	-59.1	-0.0006	mg/L	0.00057	-0.0006	mg/L	0.00057	101.46%
Na 330.237†	-98.8	-0.1715	mg/L	0.04819	-0.1715	mg/L	0.04819	28.09%
Ca 227.546†	-29.0	-0.1372	mg/L	0.08590	-0.1372	mg/L	0.08590	62.60%
Al RADIAL†	-33.7	-0.0245	mg/L	0.01390	-0.0245	mg/L	0.01390	56.77%
Fe RADIAL†	0.4	0.0010	mg/L	0.00900	0.0010	mg/L	0.00900	889.35%
Ca RADIAL†	-686.8	-0.1353	mg/L	0.00509	-0.1353	mg/L	0.00509	3.76%
K RADIAL†	36.8	0.0320	mg/L	0.04863	0.0320	mg/L	0.04863	152.12%
Mg RADIAL†	7.9	0.0164	mg/L	0.02886	0.0164	mg/L	0.02886	175.54%
Na RADIAL†	8.6	0.0015	mg/L	0.01759	0.0015	mg/L	0.01759	>999.9%

Sequence No.: 5
Sample ID: SEQ-CRL1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/5/2020 10:20:39 AM
Data Type: Reprocessed on 6/8/2020 9:10:04 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CRL1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	15471696.3	0.000	mg/L	0.0000				0.00%
Y RADIAL	268952.1	0.000	mg/L	0.0000				0.00%
As 188.979†	15.8	0.0119	mg/L	0.00341	0.0119	mg/L	0.00341	28.58%
Tl 190.801†	43.9	0.0233	mg/L	0.00569	0.0233	mg/L	0.00569	24.44%
Se 196.026†	43.6	0.0214	mg/L	0.00177	0.0214	mg/L	0.00177	8.27%
Zn 206.200†	1817.9	0.0615	mg/L	0.00055	0.0615	mg/L	0.00055	0.90%
Sb 206.836†	75.7	0.0314	mg/L	0.00618	0.0314	mg/L	0.00618	19.71%
Pb 220.353†	44.1	0.0051	mg/L	0.00085	0.0051	mg/L	0.00085	16.82%
Cd 226.502†	384.2	0.0036	mg/L	0.00019	0.0036	mg/L	0.00019	5.27%
Co 228.616†	144.0	0.0046	mg/L	0.00033	0.0046	mg/L	0.00033	7.08%
Ni 232.003†	26.9	0.0017	mg/L	0.00176	0.0017	mg/L	0.00176	106.40%
Ba 233.527†	1840.4	0.0287	mg/L	0.00027	0.0287	mg/L	0.00027	0.95%
Mn 257.610†	6196.4	0.0109	mg/L	0.00013	0.0109	mg/L	0.00013	1.20%
Cr 267.716†	656.4	0.0057	mg/L	0.00048	0.0057	mg/L	0.00048	8.44%
Fe 273.955†	9376.5	0.5281	mg/L	0.00418	0.5281	mg/L	0.00418	0.79%
Mg 279.077†	9135.6	0.5308	mg/L	0.00660	0.5308	mg/L	0.00660	1.24%
V 292.402†	2350.8	0.0109	mg/L	0.00021	0.0109	mg/L	0.00021	1.89%
Al 308.215†	7755.7	0.4883	mg/L	0.01033	0.4883	mg/L	0.01033	2.12%
Be 313.107†	2141.7	0.00053	mg/L	0.000057	0.00053	mg/L	0.000057	10.64%
Cu 324.752†	9583.9	0.0417	mg/L	0.00042	0.0417	mg/L	0.00042	1.02%
Ag 338.289†	1178.5	0.0112	mg/L	0.00055	0.0112	mg/L	0.00055	4.86%
Na 330.237†	397.2	0.6926	mg/L	0.07558	0.6926	mg/L	0.07558	10.91%
Ca 227.546†	233.3	1.109	mg/L	0.1597	1.109	mg/L	0.1597	14.41%
Al RADIAL†	745.2	0.5408	mg/L	0.01301	0.5408	mg/L	0.01301	2.41%
Fe RADIAL†	216.2	0.5140	mg/L	0.00490	0.5140	mg/L	0.00490	0.95%
Ca RADIAL†	6673.1	1.315	mg/L	0.0101	1.315	mg/L	0.0101	0.77%
K RADIAL†	613.3	0.5331	mg/L	0.02196	0.5331	mg/L	0.02196	4.12%
Mg RADIAL†	260.4	0.5387	mg/L	0.01772	0.5387	mg/L	0.01772	3.29%
Na RADIAL†	3099.0	0.5248	mg/L	0.01257	0.5248	mg/L	0.01257	2.40%

Sequence No.: 7
Sample ID: SEQ-IFA1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 6/5/2020 10:26:31 AM
Data Type: Reprocessed on 6/8/2020 9:10:06 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-IFA1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	14520040.1	0.000	mg/L	0.0000				0.00%
Y RADIAL	273355.5	0.000	mg/L	0.0000				0.00%
As 188.979†	-2.5	0.0000	mg/L	0.01283	0.0000	mg/L	0.01283	>999.9%
Tl 190.801†	-45.1	0.0008	mg/L	0.00604	0.0008	mg/L	0.00604	745.09%
Se 196.026†	251.1	0.0009	mg/L	0.01947	0.0009	mg/L	0.01947	>999.9%
Zn 206.200†	532.2	0.0009	mg/L	0.00093	0.0009	mg/L	0.00093	101.46%
Sb 206.836†	-27.4	-0.0002	mg/L	0.00156	-0.0002	mg/L	0.00156	734.96%
Pb 220.353†	-497.8	0.0009	mg/L	0.00378	0.0009	mg/L	0.00378	418.34%
Cd 226.502†	1741.7	-0.0006	mg/L	0.00015	-0.0006	mg/L	0.00015	24.39%
Co 228.616†	-63.0	-0.0001	mg/L	0.00073	-0.0001	mg/L	0.00073	610.62%
Ni 232.003†	-363.8	-0.0007	mg/L	0.00357	-0.0007	mg/L	0.00357	494.14%
Ba 233.527†	309.7	0.0048	mg/L	0.00024	0.0048	mg/L	0.00024	4.92%
Mn 257.610†	-20826.2	0.0007	mg/L	0.00020	0.0007	mg/L	0.00020	29.31%
Cr 267.716†	-744.5	0.0002	mg/L	0.00056	0.0002	mg/L	0.00056	292.50%
Fe 273.955†	3486867.9	196.4	mg/L	1.24	196.4	mg/L	1.24	0.63%
Mg 279.077†	9011285.4	523.6	mg/L	2.08	523.6	mg/L	2.08	0.40%
V 292.402†	1712.9	0.0003	mg/L	0.00053	0.0003	mg/L	0.00053	154.11%
Al 308.215†	8883851.0	559.3	mg/L	1.40	559.3	mg/L	1.40	0.25%
Be 313.107†	-759.4	-0.00019	mg/L	0.000047	-0.00019	mg/L	0.000047	24.92%
Cu 324.752†	-360.5	0.0003	mg/L	0.00032	0.0003	mg/L	0.00032	96.37%
Ag 338.289†	228.4	0.0005	mg/L	0.00059	0.0005	mg/L	0.00059	113.56%
Na 330.237†	-544.8	0.4109	mg/L	0.02494	0.4109	mg/L	0.02494	6.07%
Ca 227.546†	111781.4	530.9	mg/L	2.59	530.9	mg/L	2.59	0.49%
Al RADIAL†	679875.5	493.3	mg/L	5.33	493.3	mg/L	5.33	1.08%
Fe RADIAL†	79880.5	189.9	mg/L	0.32	189.9	mg/L	0.32	0.17%
Ca RADIAL†	2457246.2	484.1	mg/L	5.83	484.1	mg/L	5.83	1.20%
K RADIAL†	89.3	0.0776	mg/L	0.03191	0.0776	mg/L	0.03191	41.14%
Mg RADIAL†	237473.7	491.3	mg/L	1.04	491.3	mg/L	1.04	0.21%
Na RADIAL†	188.8	0.0320	mg/L	0.01129	0.0320	mg/L	0.01129	35.33%

Sequence No.: 8
Sample ID: SEQ-IFB1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 6/5/2020 10:28:59 AM
Data Type: Reprocessed on 6/8/2020 9:10:07 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-IFB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14269234.3	0.000	mg/L	0.0000				0.00%
Y RADIAL	263649.6	0.000	mg/L	0.0000				0.00%
As 188.979†	671.3	0.5070	mg/L	0.02781	0.5070	mg/L	0.02781	5.49%
Tl 190.801†	921.8	0.5127	mg/L	0.01098	0.5127	mg/L	0.01098	2.14%
Se 196.026†	1169.5	0.4588	mg/L	0.02799	0.4588	mg/L	0.02799	6.10%
Zn 206.200†	29564.4	0.9833	mg/L	0.02798	0.9833	mg/L	0.02798	2.85%
Sb 206.836†	1202.0	0.5088	mg/L	0.02154	0.5088	mg/L	0.02154	4.23%
Pb 220.353†	8596.7	1.036	mg/L	0.0258	1.036	mg/L	0.0258	2.49%
Cd 226.502†	103218.2	0.9596	mg/L	0.03233	0.9596	mg/L	0.03233	3.37%
Co 228.616†	15463.1	0.4975	mg/L	0.01416	0.4975	mg/L	0.01416	2.85%
Ni 232.003†	17797.9	1.078	mg/L	0.0282	1.078	mg/L	0.0282	2.62%
Ba 233.527†	34218.4	0.5327	mg/L	0.01518	0.5327	mg/L	0.01518	2.85%
Mn 257.610†	265353.6	0.5005	mg/L	0.01451	0.5005	mg/L	0.01451	2.90%
Cr 267.716†	56394.6	0.4958	mg/L	0.01635	0.4958	mg/L	0.01635	3.30%
Fe 273.955†	3452485.2	194.5	mg/L	6.51	194.5	mg/L	6.51	3.35%
Mg 279.077†	8905549.1	517.5	mg/L	18.06	517.5	mg/L	18.06	3.49%
V 292.402†	108322.0	0.4947	mg/L	0.01716	0.4947	mg/L	0.01716	3.47%
Al 308.215†	8878144.4	559.0	mg/L	19.56	559.0	mg/L	19.56	3.50%
Be 313.107†	1997384.4	0.49775	mg/L	0.016710	0.49775	mg/L	0.016710	3.36%
Cu 324.752†	130524.3	0.5698	mg/L	0.01991	0.5698	mg/L	0.01991	3.49%
Ag 338.289†	115082.3	1.096	mg/L	0.0337	1.096	mg/L	0.0337	3.08%
Na 330.237†	175.7	1.662	mg/L	0.0863	1.662	mg/L	0.0863	5.19%
Ca 227.546†	111201.5	528.2	mg/L	16.02	528.2	mg/L	16.02	3.03%
Al RADIAL†	685362.9	497.3	mg/L	34.14	497.3	mg/L	34.14	6.86%
Fe RADIAL†	80126.8	190.5	mg/L	13.90	190.5	mg/L	13.90	7.30%
Ca RADIAL†	2447623.0	482.2	mg/L	32.31	482.2	mg/L	32.31	6.70%
K RADIAL†	-33.9	-0.0294	mg/L	0.06998	-0.0294	mg/L	0.06998	237.70%
Mg RADIAL†	237316.0	491.0	mg/L	35.49	491.0	mg/L	35.49	7.23%
Na RADIAL†	247.4	0.0419	mg/L	0.01287	0.0419	mg/L	0.01287	30.73%

Sequence No.: 9
Sample ID: SEQ-CCV1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 6/5/2020 10:31:27 AM
Data Type: Reprocessed on 6/8/2020 9:10:08 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15804954.2	0.000	mg/L	0.0000				0.00%
Y RADIAL	282261.8	0.000	mg/L	0.0000				0.00%
As 188.979†	666.7	0.5017	mg/L	0.00512	0.5017	mg/L	0.00512	1.02%
Tl 190.801†	939.4	0.4979	mg/L	0.00228	0.4979	mg/L	0.00228	0.46%
Se 196.026†	994.4	0.4929	mg/L	0.00536	0.4929	mg/L	0.00536	1.09%
Zn 206.200†	74686.0	2.527	mg/L	0.0353	2.527	mg/L	0.0353	1.40%
Sb 206.836†	622.5	0.2580	mg/L	0.00452	0.2580	mg/L	0.00452	1.75%
Pb 220.353†	4384.4	0.4999	mg/L	0.00274	0.4999	mg/L	0.00274	0.55%
Cd 226.502†	26319.0	0.2486	mg/L	0.00310	0.2486	mg/L	0.00310	1.25%
Co 228.616†	78691.1	2.522	mg/L	0.0339	2.522	mg/L	0.0339	1.34%
Ni 232.003†	42070.5	2.500	mg/L	0.0325	2.500	mg/L	0.0325	1.30%
Ba 233.527†	656637.1	10.22	mg/L	0.129	10.22	mg/L	0.129	1.26%
Mn 257.610†	1458012.9	2.547	mg/L	0.0322	2.547	mg/L	0.0322	1.27%
Cr 267.716†	116852.2	1.014	mg/L	0.0108	1.014	mg/L	0.0108	1.06%
Fe 273.955†	89846.8	5.061	mg/L	0.0661	5.061	mg/L	0.0661	1.31%
Mg 279.077†	432694.1	25.14	mg/L	0.330	25.14	mg/L	0.330	1.31%
V 292.402†	545348.4	2.529	mg/L	0.0268	2.529	mg/L	0.0268	1.06%
Al 308.215†	155043.2	9.761	mg/L	0.1242	9.761	mg/L	0.1242	1.27%
Be 313.107†	1014379.2	0.25278	mg/L	0.002970	0.25278	mg/L	0.002970	1.18%
Cu 324.752†	287518.7	1.251	mg/L	0.0144	1.251	mg/L	0.0144	1.15%
Ag 338.289†	132030.5	1.259	mg/L	0.0141	1.259	mg/L	0.0141	1.12%
Na 330.237†	13621.4	23.68	mg/L	0.355	23.68	mg/L	0.355	1.50%
Ca 227.546†	5243.5	24.86	mg/L	0.134	24.86	mg/L	0.134	0.54%
Al RADIAL†	13943.0	10.12	mg/L	0.107	10.12	mg/L	0.107	1.06%
Fe RADIAL†	2121.7	5.045	mg/L	0.0418	5.045	mg/L	0.0418	0.83%
Ca RADIAL†	126784.1	24.98	mg/L	0.163	24.98	mg/L	0.163	0.65%
K RADIAL†	5825.2	5.063	mg/L	0.0186	5.063	mg/L	0.0186	0.37%
Mg RADIAL†	12074.1	24.98	mg/L	0.216	24.98	mg/L	0.216	0.87%
Na RADIAL†	148711.8	25.18	mg/L	0.158	25.18	mg/L	0.158	0.63%

Sequence No.: 10
Sample ID: SEQ-CCB1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/5/2020 10:34:25 AM
Data Type: Reprocessed on 6/8/2020 9:10:09 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	15550374.4	0.000	mg/L	0.0000				0.00%
Y RADIAL	282716.4	0.000	mg/L	0.0000				0.00%
As 188.979†	0.2	0.0002	mg/L	0.00619	0.0002	mg/L	0.00619	>999.9%
Tl 190.801†	6.4	0.0034	mg/L	0.00170	0.0034	mg/L	0.00170	50.21%
Se 196.026†	-6.5	-0.0032	mg/L	0.00388	-0.0032	mg/L	0.00388	120.08%
Zn 206.200†	-182.5	-0.0062	mg/L	0.00024	-0.0062	mg/L	0.00024	3.95%
Sb 206.836†	-2.7	-0.0011	mg/L	0.00588	-0.0011	mg/L	0.00588	523.35%
Pb 220.353†	-10.4	-0.0012	mg/L	0.00194	-0.0012	mg/L	0.00194	163.93%
Cd 226.502†	-8.7	-0.0001	mg/L	0.00021	-0.0001	mg/L	0.00021	259.26%
Co 228.616†	19.0	0.0006	mg/L	0.00030	0.0006	mg/L	0.00030	48.89%
Ni 232.003†	-64.4	-0.0038	mg/L	0.00084	-0.0038	mg/L	0.00084	21.87%
Ba 233.527†	16.8	0.0003	mg/L	0.00006	0.0003	mg/L	0.00006	22.67%
Mn 257.610†	58.0	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	8.05%
Cr 267.716†	35.8	0.0003	mg/L	0.00037	0.0003	mg/L	0.00037	119.37%
Fe 273.955†	40.5	0.0023	mg/L	0.00076	0.0023	mg/L	0.00076	33.10%
Mg 279.077†	171.2	0.0099	mg/L	0.01157	0.0099	mg/L	0.01157	116.34%
V 292.402†	80.5	0.0004	mg/L	0.00066	0.0004	mg/L	0.00066	176.02%
Al 308.215†	48.5	0.0031	mg/L	0.01001	0.0031	mg/L	0.01001	327.74%
Be 313.107†	165.1	0.00004	mg/L	0.000095	0.00004	mg/L	0.000095	231.28%
Cu 324.752†	556.2	0.0024	mg/L	0.00012	0.0024	mg/L	0.00012	5.04%
Ag 338.289†	44.7	0.0004	mg/L	0.00080	0.0004	mg/L	0.00080	186.63%
Na 330.237†	-67.6	-0.1174	mg/L	0.14869	-0.1174	mg/L	0.14869	126.64%
Ca 227.546†	-15.8	-0.0749	mg/L	0.04386	-0.0749	mg/L	0.04386	58.54%
Al RADIAL†	-21.4	-0.0155	mg/L	0.01402	-0.0155	mg/L	0.01402	90.40%
Fe RADIAL†	0.3	0.0007	mg/L	0.01202	0.0007	mg/L	0.01202	>999.9%
Ca RADIAL†	-669.6	-0.1319	mg/L	0.00531	-0.1319	mg/L	0.00531	4.03%
K RADIAL†	102.9	0.0895	mg/L	0.05157	0.0895	mg/L	0.05157	57.65%
Mg RADIAL†	14.4	0.0297	mg/L	0.01019	0.0297	mg/L	0.01019	34.27%
Na RADIAL†	88.3	0.0149	mg/L	0.02124	0.0149	mg/L	0.02124	142.12%

Sequence No.: 81
Sample ID: SEQ-CCV7
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 6/5/2020 1:44:24 PM
Data Type: Reprocessed on 6/8/2020 9:11:08 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV7

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15483798.7	0.000	mg/L	0.0000				0.00%
Y RADIAL	270379.4	0.000	mg/L	0.0000				0.00%
As 188.979†	686.1	0.5164	mg/L	0.01103	0.5164	mg/L	0.01103	2.14%
Tl 190.801†	960.7	0.5092	mg/L	0.00378	0.5092	mg/L	0.00378	0.74%
Se 196.026†	1025.2	0.5082	mg/L	0.01192	0.5082	mg/L	0.01192	2.35%
Zn 206.200†	75909.7	2.568	mg/L	0.0162	2.568	mg/L	0.0162	0.63%
Sb 206.836†	608.3	0.2521	mg/L	0.00491	0.2521	mg/L	0.00491	1.95%
Pb 220.353†	4423.3	0.5044	mg/L	0.00183	0.5044	mg/L	0.00183	0.36%
Cd 226.502†	26957.7	0.2546	mg/L	0.00234	0.2546	mg/L	0.00234	0.92%
Co 228.616†	79944.0	2.562	mg/L	0.0151	2.562	mg/L	0.0151	0.59%
Ni 232.003†	43504.4	2.585	mg/L	0.0188	2.585	mg/L	0.0188	0.73%
Ba 233.527†	665890.6	10.37	mg/L	0.067	10.37	mg/L	0.067	0.64%
Mn 257.610†	1475218.7	2.577	mg/L	0.0169	2.577	mg/L	0.0169	0.66%
Cr 267.716†	121711.1	1.056	mg/L	0.0065	1.056	mg/L	0.0065	0.62%
Fe 273.955†	93430.2	5.263	mg/L	0.0283	5.263	mg/L	0.0283	0.54%
Mg 279.077†	449831.2	26.14	mg/L	0.168	26.14	mg/L	0.168	0.64%
V 292.402†	550209.6	2.551	mg/L	0.0154	2.551	mg/L	0.0154	0.60%
Al 308.215†	163335.8	10.28	mg/L	0.063	10.28	mg/L	0.063	0.61%
Be 313.107†	1024668.6	0.25535	mg/L	0.001438	0.25535	mg/L	0.001438	0.56%
Cu 324.752†	300548.6	1.308	mg/L	0.0081	1.308	mg/L	0.0081	0.62%
Ag 338.289†	138050.5	1.317	mg/L	0.0093	1.317	mg/L	0.0093	0.70%
Na 330.237†	14557.1	25.30	mg/L	0.174	25.30	mg/L	0.174	0.69%
Ca 227.546†	5321.9	25.24	mg/L	0.184	25.24	mg/L	0.184	0.73%
Al RADIAL†	14623.7	10.61	mg/L	0.103	10.61	mg/L	0.103	0.97%
Fe RADIAL†	2212.0	5.260	mg/L	0.0535	5.260	mg/L	0.0535	1.02%
Ca RADIAL†	130285.6	25.67	mg/L	0.090	25.67	mg/L	0.090	0.35%
K RADIAL†	5969.3	5.188	mg/L	0.0478	5.188	mg/L	0.0478	0.92%
Mg RADIAL†	12512.1	25.89	mg/L	0.250	25.89	mg/L	0.250	0.97%
Na RADIAL†	151863.1	25.72	mg/L	0.074	25.72	mg/L	0.074	0.29%

Sequence No.: 82
Sample ID: SEQ-CCB7
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/5/2020 1:47:30 PM
Data Type: Reprocessed on 6/8/2020 9:11:09 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCB7

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	15346648.1	0.000	mg/L	0.0000				0.00%
Y RADIAL	266364.7	0.000	mg/L	0.0000				0.00%
As 188.979†	6.6	0.0050	mg/L	0.00337	0.0050	mg/L	0.00337	67.99%
Tl 190.801†	9.3	0.0049	mg/L	0.00352	0.0049	mg/L	0.00352	71.93%
Se 196.026†	-2.0	-0.0010	mg/L	0.00617	-0.0010	mg/L	0.00617	626.51%
Zn 206.200†	-142.0	-0.0048	mg/L	0.00054	-0.0048	mg/L	0.00054	11.15%
Sb 206.836†	-3.3	-0.0014	mg/L	0.00142	-0.0014	mg/L	0.00142	103.85%
Pb 220.353†	-24.9	-0.0028	mg/L	0.00116	-0.0028	mg/L	0.00116	40.85%
Cd 226.502†	-0.9	0.0000	mg/L	0.00016	0.0000	mg/L	0.00016	>999.9%
Co 228.616†	18.6	0.0006	mg/L	0.00025	0.0006	mg/L	0.00025	41.48%
Ni 232.003†	47.6	0.0028	mg/L	0.00056	0.0028	mg/L	0.00056	19.88%
Ba 233.527†	28.4	0.0004	mg/L	0.00037	0.0004	mg/L	0.00037	83.88%
Mn 257.610†	54.6	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	72.00%
Cr 267.716†	-102.0	-0.0009	mg/L	0.00056	-0.0009	mg/L	0.00056	62.97%
Fe 273.955†	-6.0	-0.0003	mg/L	0.00202	-0.0003	mg/L	0.00202	595.77%
Mg 279.077†	-62.0	-0.0036	mg/L	0.00268	-0.0036	mg/L	0.00268	74.39%
V 292.402†	-37.2	-0.0002	mg/L	0.00014	-0.0002	mg/L	0.00014	81.10%
Al 308.215†	-455.5	-0.0287	mg/L	0.00536	-0.0287	mg/L	0.00536	18.69%
Be 313.107†	1710.1	0.00043	mg/L	0.000031	0.00043	mg/L	0.000031	7.25%
Cu 324.752†	405.1	0.0018	mg/L	0.00046	0.0018	mg/L	0.00046	25.99%
Ag 338.289†	-90.0	-0.0009	mg/L	0.00046	-0.0009	mg/L	0.00046	53.23%
Na 330.237†	-160.6	-0.2786	mg/L	0.09947	-0.2786	mg/L	0.09947	35.70%
Ca 227.546†	-26.8	-0.1269	mg/L	0.05579	-0.1269	mg/L	0.05579	43.97%
Al RADIAL†	-5.2	-0.0037	mg/L	0.02007	-0.0037	mg/L	0.02007	535.26%
Fe RADIAL†	1.8	0.0042	mg/L	0.01646	0.0042	mg/L	0.01646	387.74%
Ca RADIAL†	-651.1	-0.1283	mg/L	0.00491	-0.1283	mg/L	0.00491	3.82%
K RADIAL†	35.4	0.0308	mg/L	0.02659	0.0308	mg/L	0.02659	86.33%
Mg RADIAL†	-6.1	-0.0126	mg/L	0.02459	-0.0126	mg/L	0.02459	194.36%
Na RADIAL†	-99.6	-0.0169	mg/L	0.01604	-0.0169	mg/L	0.01604	95.18%

Sequence No.: 88
Sample ID: BF00209-BLK1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 206
Date Collected: 6/5/2020 2:05:26 PM
Data Type: Reprocessed on 6/8/2020 9:11:14 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: BF00209-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16525199.1	0.000	mg/L	0.0000				0.00%
Y RADIAL	286511.3	0.000	mg/L	0.0000				0.00%
As 188.979†	3.9	0.0030	mg/L	0.00765	0.0030	mg/L	0.00765	258.74%
Tl 190.801†	8.6	0.0046	mg/L	0.00343	0.0046	mg/L	0.00343	75.05%
Se 196.026†	-9.9	-0.0049	mg/L	0.00179	-0.0049	mg/L	0.00179	36.09%
Zn 206.200†	-131.3	-0.0044	mg/L	0.00046	-0.0044	mg/L	0.00046	10.28%
Sb 206.836†	0.8	0.0003	mg/L	0.00245	0.0003	mg/L	0.00245	717.81%
Pb 220.353†	-46.4	-0.0053	mg/L	0.00088	-0.0053	mg/L	0.00088	16.74%
Cd 226.502†	-33.0	-0.0003	mg/L	0.00011	-0.0003	mg/L	0.00011	35.56%
Co 228.616†	11.4	0.0004	mg/L	0.00018	0.0004	mg/L	0.00018	50.62%
Ni 232.003†	-39.8	-0.0024	mg/L	0.00109	-0.0024	mg/L	0.00109	45.98%
Ba 233.527†	33.0	0.0005	mg/L	0.00023	0.0005	mg/L	0.00023	45.00%
Mn 257.610†	130.4	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	20.44%
Cr 267.716†	-68.7	-0.0006	mg/L	0.00044	-0.0006	mg/L	0.00044	73.46%
Fe 273.955†	63.6	0.0036	mg/L	0.00047	0.0036	mg/L	0.00047	13.02%
Mg 279.077†	-8.3	-0.0005	mg/L	0.00264	-0.0005	mg/L	0.00264	548.05%
V 292.402†	14.8	0.0001	mg/L	0.00028	0.0001	mg/L	0.00028	405.99%
Al 308.215†	-1084.6	-0.0683	mg/L	0.00790	-0.0683	mg/L	0.00790	11.57%
Be 313.107†	2159.7	0.00054	mg/L	0.000047	0.00054	mg/L	0.000047	8.66%
Cu 324.752†	-453.3	-0.0020	mg/L	0.00040	-0.0020	mg/L	0.00040	20.19%
Ag 338.289†	-159.2	-0.0015	mg/L	0.00030	-0.0015	mg/L	0.00030	19.67%
Na 330.237†	156.3	0.2712	mg/L	0.14245	0.2712	mg/L	0.14245	52.53%
Ca 227.546†	-32.9	-0.1554	mg/L	0.07250	-0.1554	mg/L	0.07250	46.65%
Al RADIAL†	-31.8	-0.0231	mg/L	0.01260	-0.0231	mg/L	0.01260	54.59%
Fe RADIAL†	4.6	0.0110	mg/L	0.01100	0.0110	mg/L	0.01100	99.76%
Ca RADIAL†	-257.1	-0.0506	mg/L	0.00724	-0.0506	mg/L	0.00724	14.29%
K RADIAL†	162.2	0.1410	mg/L	0.04448	0.1410	mg/L	0.04448	31.55%
Mg RADIAL†	9.7	0.0202	mg/L	0.02864	0.0202	mg/L	0.02864	142.14%
Na RADIAL†	-2.0	-0.0003	mg/L	0.01092	-0.0003	mg/L	0.01092	>999.9%

Sequence No.: 89
Sample ID: BF00209-BS1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 207
Date Collected: 6/5/2020 2:08:21 PM
Data Type: Reprocessed on 6/8/2020 9:11:14 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BF00209-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16428566.9	0.000	mg/L	0.0000				0.00%
Y RADIAL	287809.7	0.000	mg/L	0.0000				0.00%
As 188.979†	2361.8	1.777	mg/L	0.0208	1.777	mg/L	0.0208	1.17%
Tl 190.801†	3531.7	1.869	mg/L	0.0075	1.869	mg/L	0.0075	0.40%
Se 196.026†	3119.1	1.556	mg/L	0.0035	1.556	mg/L	0.0035	0.23%
Zn 206.200†	14030.9	0.4747	mg/L	0.00194	0.4747	mg/L	0.00194	0.41%
Sb 206.836†	565.2	0.2340	mg/L	0.00304	0.2340	mg/L	0.00304	1.30%
Pb 220.353†	4042.9	0.4600	mg/L	0.00230	0.4600	mg/L	0.00230	0.50%
Cd 226.502†	4894.0	0.0462	mg/L	0.00020	0.0462	mg/L	0.00020	0.43%
Co 228.616†	15549.1	0.4983	mg/L	0.00205	0.4983	mg/L	0.00205	0.41%
Ni 232.003†	8263.6	0.4911	mg/L	0.00205	0.4911	mg/L	0.00205	0.42%
Ba 233.527†	125591.4	1.955	mg/L	0.0099	1.955	mg/L	0.0099	0.51%
Mn 257.610†	278191.5	0.4860	mg/L	0.00206	0.4860	mg/L	0.00206	0.42%
Cr 267.716†	23374.6	0.2028	mg/L	0.00102	0.2028	mg/L	0.00102	0.50%
Fe 273.955†	17905.0	1.009	mg/L	0.0056	1.009	mg/L	0.0056	0.56%
Mg 279.077†	16751.3	0.9733	mg/L	0.00630	0.9733	mg/L	0.00630	0.65%
V 292.402†	102067.4	0.4733	mg/L	0.00199	0.4733	mg/L	0.00199	0.42%
Al 308.215†	25842.3	1.627	mg/L	0.0079	1.627	mg/L	0.0079	0.48%
Be 313.107†	190689.7	0.04752	mg/L	0.000244	0.04752	mg/L	0.000244	0.51%
Cu 324.752†	55850.8	0.2430	mg/L	0.00145	0.2430	mg/L	0.00145	0.60%
Ag 338.289†	4965.4	0.0474	mg/L	0.00081	0.0474	mg/L	0.00081	1.71%
Na 330.237†	990.3	1.723	mg/L	0.0252	1.723	mg/L	0.0252	1.46%
Ca 227.546†	160.8	0.7708	mg/L	0.09652	0.7708	mg/L	0.09652	12.52%
Al RADIAL†	2644.0	1.919	mg/L	0.0134	1.919	mg/L	0.0134	0.70%
Fe RADIAL†	419.8	0.9983	mg/L	0.02266	0.9983	mg/L	0.02266	2.27%
Ca RADIAL†	4345.5	0.8561	mg/L	0.00621	0.8561	mg/L	0.00621	0.73%
K RADIAL†	1192.1	1.036	mg/L	0.0612	1.036	mg/L	0.0612	5.90%
Mg RADIAL†	473.8	0.9803	mg/L	0.03894	0.9803	mg/L	0.03894	3.97%
Na RADIAL†	5552.0	0.9401	mg/L	0.01363	0.9401	mg/L	0.01363	1.45%

Sequence No.: 93
Sample ID: SEQ-CCV8
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 6/5/2020 2:18:25 PM
Data Type: Reprocessed on 6/8/2020 9:11:18 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV8

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15870271.3	0.000	mg/L	0.0000				0.00%
Y RADIAL	274992.1	0.000	mg/L	0.0000				0.00%
As 188.979†	687.5	0.5174	mg/L	0.00827	0.5174	mg/L	0.00827	1.60%
Tl 190.801†	962.4	0.5101	mg/L	0.00564	0.5101	mg/L	0.00564	1.11%
Se 196.026†	1027.2	0.5091	mg/L	0.00713	0.5091	mg/L	0.00713	1.40%
Zn 206.200†	77246.4	2.614	mg/L	0.0290	2.614	mg/L	0.0290	1.11%
Sb 206.836†	623.8	0.2585	mg/L	0.00379	0.2585	mg/L	0.00379	1.46%
Pb 220.353†	4480.5	0.5109	mg/L	0.00270	0.5109	mg/L	0.00270	0.53%
Cd 226.502†	27127.1	0.2562	mg/L	0.00222	0.2562	mg/L	0.00222	0.87%
Co 228.616†	80728.3	2.587	mg/L	0.0253	2.587	mg/L	0.0253	0.98%
Ni 232.003†	43555.3	2.588	mg/L	0.0248	2.588	mg/L	0.0248	0.96%
Ba 233.527†	667341.1	10.39	mg/L	0.044	10.39	mg/L	0.044	0.42%
Mn 257.610†	1475914.4	2.578	mg/L	0.0086	2.578	mg/L	0.0086	0.34%
Cr 267.716†	122267.4	1.061	mg/L	0.0093	1.061	mg/L	0.0093	0.87%
Fe 273.955†	93845.7	5.286	mg/L	0.0521	5.286	mg/L	0.0521	0.99%
Mg 279.077†	439844.6	25.56	mg/L	0.104	25.56	mg/L	0.104	0.41%
V 292.402†	551506.9	2.557	mg/L	0.0093	2.557	mg/L	0.0093	0.37%
Al 308.215†	162758.1	10.25	mg/L	0.085	10.25	mg/L	0.085	0.83%
Be 313.107†	1027365.6	0.25602	mg/L	0.000801	0.25602	mg/L	0.000801	0.31%
Cu 324.752†	298735.1	1.300	mg/L	0.0117	1.300	mg/L	0.0117	0.90%
Ag 338.289†	137693.1	1.313	mg/L	0.0109	1.313	mg/L	0.0109	0.83%
Na 330.237†	14392.6	25.02	mg/L	0.137	25.02	mg/L	0.137	0.55%
Ca 227.546†	5316.7	25.21	mg/L	0.129	25.21	mg/L	0.129	0.51%
Al RADIAL†	14760.5	10.71	mg/L	0.035	10.71	mg/L	0.035	0.33%
Fe RADIAL†	2247.1	5.343	mg/L	0.0176	5.343	mg/L	0.0176	0.33%
Ca RADIAL†	132484.3	26.10	mg/L	0.150	26.10	mg/L	0.150	0.58%
K RADIAL†	6001.5	5.216	mg/L	0.0082	5.216	mg/L	0.0082	0.16%
Mg RADIAL†	12737.6	26.35	mg/L	0.128	26.35	mg/L	0.128	0.49%
Na RADIAL†	153197.6	25.94	mg/L	0.103	25.94	mg/L	0.103	0.40%

Sequence No.: 94
Sample ID: SEQ-CCB8
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/5/2020 2:21:31 PM
Data Type: Reprocessed on 6/8/2020 9:11:18 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCB8

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	15298873.0	0.000	mg/L	0.0000				0.00%
Y RADIAL	267939.4	0.000	mg/L	0.0000				0.00%
As 188.979†	2.1	0.0016	mg/L	0.00662	0.0016	mg/L	0.00662	418.66%
Tl 190.801†	4.1	0.0022	mg/L	0.00176	0.0022	mg/L	0.00176	81.47%
Se 196.026†	-2.5	-0.0013	mg/L	0.00680	-0.0013	mg/L	0.00680	536.46%
Zn 206.200†	-144.3	-0.0049	mg/L	0.00062	-0.0049	mg/L	0.00062	12.64%
Sb 206.836†	7.9	0.0033	mg/L	0.00148	0.0033	mg/L	0.00148	45.33%
Pb 220.353†	-19.8	-0.0022	mg/L	0.00067	-0.0022	mg/L	0.00067	29.90%
Cd 226.502†	-4.3	0.0000	mg/L	0.00009	0.0000	mg/L	0.00009	233.45%
Co 228.616†	23.7	0.0008	mg/L	0.00025	0.0008	mg/L	0.00025	33.44%
Ni 232.003†	16.4	0.0010	mg/L	0.00076	0.0010	mg/L	0.00076	78.13%
Ba 233.527†	29.9	0.0005	mg/L	0.00042	0.0005	mg/L	0.00042	89.63%
Mn 257.610†	51.4	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	54.76%
Cr 267.716†	10.1	0.0001	mg/L	0.00061	0.0001	mg/L	0.00061	695.24%
Fe 273.955†	-14.5	-0.0008	mg/L	0.00061	-0.0008	mg/L	0.00061	73.95%
Mg 279.077†	-116.6	-0.0068	mg/L	0.00391	-0.0068	mg/L	0.00391	57.76%
V 292.402†	-1.2	0.0000	mg/L	0.00011	0.0000	mg/L	0.00011	>999.9%
Al 308.215†	-52.6	-0.0033	mg/L	0.00646	-0.0033	mg/L	0.00646	195.34%
Be 313.107†	970.9	0.00024	mg/L	0.000022	0.00024	mg/L	0.000022	9.09%
Cu 324.752†	558.1	0.0024	mg/L	0.00030	0.0024	mg/L	0.00030	12.25%
Ag 338.289†	-11.6	-0.0001	mg/L	0.00120	-0.0001	mg/L	0.00120	>999.9%
Na 330.237†	-100.9	-0.1752	mg/L	0.04396	-0.1752	mg/L	0.04396	25.09%
Ca 227.546†	-18.6	-0.0879	mg/L	0.07261	-0.0879	mg/L	0.07261	82.63%
Al RADIAL†	7.2	0.0053	mg/L	0.01580	0.0053	mg/L	0.01580	300.61%
Fe RADIAL†	-0.5	-0.0012	mg/L	0.01950	-0.0012	mg/L	0.01950	>999.9%
Ca RADIAL†	-671.8	-0.1323	mg/L	0.00646	-0.1323	mg/L	0.00646	4.88%
K RADIAL†	22.4	0.0195	mg/L	0.04012	0.0195	mg/L	0.04012	206.12%
Mg RADIAL†	-11.1	-0.0229	mg/L	0.01891	-0.0229	mg/L	0.01891	82.43%
Na RADIAL†	-169.7	-0.0287	mg/L	0.01413	-0.0287	mg/L	0.01413	49.19%

Sample Information Detail Report
Document Name: 060820A

File Description
Sample Information File

Parameters Common to All Samples

Batch ID	060820A
Analyst Name	KML
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Remarks
1	3	SEQ-ICV1	
2	4	SEQ-ICB1	
3	5	SEQ-CRL1	
4	6	SEQ-CRL2	
5	7	SEQ-IFA1	
6	8	SEQ-IFB1	
7	9	SEQ-CCV1	
8	4	SEQ-CCB1	
9	101	20F0013-01	
10	102	20F0053-01	
11	103	BF00355-DUP1	
12	104	BF00355-MS1	
13	105	BF00355-PS1	
14	106	20F0098-01	
15	107	20F0114-01	
16	108	20F0148-01	
17	109	20F0149-01	
18	110	20F0149-02	
19	9	SEQ-CCV2	
20	4	SEQ-CCB2	
21	111	20F0166-01	
22	112	20F0166-03	
23	113	20F0194-01	
24	114	20F0218-04	
25	115	20F0218-10	
26	116	20F0218-16	
27	117	20F0218-22	
28	118	SEQ-SRD1	
29	119	BF00342-BLK1	
30	120	BF00342-BS1	
31	9	SEQ-CCV3	
32	4	SEQ-CCB3	
33	121	20F0222-05	
34	122	20F0222-10	
35	123	20F0222-15	
36	124	20F0120-06	
37	125	BF00342-DUP1	
38	126	BF00342-MS1	
39	127	BF00342-PS1	
40	128	20F0121-01	
41	129	20F0123-01	
42	130	20F0150-01	
43	9	SEQ-CCV4	
44	4	SEQ-CCB4	
45	131	20F0150-02	
46	132	20F0152-01	
47	133	20F0152-02	
48	134	20F0152-03	
49	135	20F0153-01	
50	136	20F0153-02	
51	137	20F0153-03	
52	138	20F0153-04	
53	139	20F0155-01	
54	140	20F0155-02	
55	9	SEQ-CCV5	

56	4	SEQ-CCB5	
57	141	20F0214-01	
58	142	20F0221-01	
59	143	BF00342-MS2	
60	144	SEQ-SRD2	20F0120-06
61	145	20F0048-01	BF00209
62	146	20F0048-02	BF00209
63	147	20F0049-01	BF00209
64	148	20F0049-02	BF00209
65	149	20F0049-03	BF00209
66	150	20F0049-04	BF00209
67	9	SEQ-CCV6	
68	4	SEQ-CCB6	
69	151	20F0049-05	BF00209
70	152	20F0049-06	BF00209
71	153	20F0067-01	BF00209
72	154	20F0067-02	BF00209
73	155	20F0067-03	BF00209
74	156	20F0067-06	BF00209
75	157	BF00367-BLK1	
76	158	BF00367-BS1	
77	159	20F0167-01	
78	160	20F0167-02	
79	9	SEQ-CCV7	
80	4	SEQ-CCB7	
81	201	BF00392-BLK1	
82	202	BF00392-SRM1	
83	203	20F0255-01	
84	204	20F0255-02	
85	205	20F0255-03	
86	206	20F0267-01	
87	207	20F0268-01	
88	208	20F0273-05	
89	209	20F0273-11	
90	210	20F0273-17	
91	9	SEQ-CCV8	
92	4	SEQ-CCB8	
93	211	20F0273-23	
94	212	20F0273-29	
95	213	20F0273-35	
96	214	20F0273-41	
97	215	BF00392-DUP1	
98	216	BF00392-MS1	
99	217	BF00392-PS1	
100	218	SEQ-SRD3	20F0273-41
101	219	20F0167-03	BF00367
102	220	20F0180-01	BF00367
103	9	SEQ-CCV9	
104	4	SEQ-CCB9	
105	221	20F0189-01	BF00367
106	222	BF00367-DUP1	BF00367
107	223	BF00367-MS1	BF00367
108	224	BF00367-PS1	BF00367
109	225	20F0189-02	BF00367
110	226	20F0189-03	BF00367
111	227	20F0189-04	BF00367
112	228	20F0189-05	BF00367
113	229	20F0220-08	BF00367
114	230	BF00367-MS2	BF00367
115	10	SEQ-CCVA	
116	1	SEQ-CCBA	
117	231	20F0225-01	BF00367
118	232	20F0225-02	BF00367
119	233	20F0225-03	BF00367
120	234	20F0225-04	BF00367
121	235	20F0225-05	BF00367
122	236	20F0225-06	BF00367
123	237	20F0225-07	BF00367

124	238	SEQ-SRD4	20F0189-01
125	239	BF00367-DUP2	
126	240	BF00367-DUP3	
127	10	SEQ-CCVB	
128	1	SEQ-CCBB	
129	241	BF00367-DUP4	
130	242	BF00367-DUP5	
131	243	BF00302-BLK1	
132	244	BF00302-SRM1	
133	245	20F0176-01	
134	246	20F0176-02	
135	247	20F0178-03	
136	248	20F0187-01	
137	249	20F0187-02	
138	250	20F0190-01	
139	10	SEQ-CCVC	
140	1	SEQ-CCBC	
141	251	20F0192-01	
142	252	20F0199-01	
143	253	20F0203-01	
144	254	20F0204-01	
145	255	20F0204-02	
146	256	20F0204-03	
147	257	20F0204-04	
148	258	20F0213-01	
149	259	20F0213-02	
150	260	20F0213-03	
151	10	SEQ-CCVD	
152	1	SEQ-CCBD	
153	301	20F0218-05	
154	302	20F0218-11	
155	303	20F0218-17	
156	304	20F0218-23	
157	305	BF00302-DUP1	
158	306	BF00302-MS1	
159	307	BF00302-PS1	
160	308	SEQ-SRD5	20F0218-23
161	10	SEQ-CCVE	
162	1	SEQ-CCBE	
163	5	SEQ-CRL3	
164	6	SEQ-CRL4	
165	7	SEQ-IFA2	
166	8	SEQ-IFB2	
167	405	SEQ-HCV1	
168	1	BLANK1	
169	1	BLANK2	
170	10	SEQ-CCVF	
171	1	SEQ-CCBF	

Reprocessing Begun
Logged In Analyst: john Technique: ICP Continuous

Results Data Set (original): qbi060820A
Results Library (original): C:\pe\rqb\Results\Results 042020.mdb
Results Data Set (reprocessed): qbi060820ARE_1
Results Library (reprocessed): C:\pe\john\Results\Results 042020.mdb

Method Loaded
Method Name: TAL METH_091119FAS Method Last Saved: 9/11/2019 12:48:20 PM
IEC File: IEC 060719A.iec MSF File:
Method Description: TAL METALS

Sequence No.: 1 Autosampler Location: 1
Sample ID: Calib Blank 1 Date Collected: 6/8/2020 11:33:52 AM
Analyst: Data Type: Reprocessed on 6/9/2020 9:30:15 AM
Logged In Analyst (Original) : rqb
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	16068821.1	82616.14	0.51%	5.000	mg/L
Y RADIAL	278832.3	1785.52	0.64%	5.000	mg/L
As 188.979†	-39.2	3.69	9.43%	[0.00]	mg/L
Tl 190.801†	-61.1	3.48	5.69%	[0.00]	mg/L
Se 196.026†	78.5	11.33	14.44%	[0.00]	mg/L
Zn 206.200†	-32.4	19.08	58.91%	[0.00]	mg/L
Sb 206.836†	76.6	8.64	11.27%	[0.00]	mg/L
Pb 220.353†	88.5	3.64	4.11%	[0.00]	mg/L
Cd 226.502†	-226.4	10.29	4.54%	[0.00]	mg/L
Co 228.616†	53.9	3.44	6.39%	[0.00]	mg/L
Ni 232.003†	-1253.9	4.78	0.38%	[0.00]	mg/L
Ba 233.527†	65.8	14.88	22.61%	[0.00]	mg/L
Mn 257.610†	153.3	15.49	10.10%	[0.00]	mg/L
Cr 267.716†	327.9	37.59	11.46%	[0.00]	mg/L
Fe 273.955†	-536.5	12.83	2.39%	[0.00]	mg/L
Mg 279.077†	-1121.5	41.19	3.67%	[0.00]	mg/L
V 292.402†	459.9	82.97	18.04%	[0.00]	mg/L
Al 308.215†	12078.4	52.87	0.44%	[0.00]	mg/L
Be 313.107†	-11670.2	108.90	0.93%	[0.00]	mg/L
Cu 324.752†	4635.8	136.62	2.95%	[0.00]	mg/L
Ag 338.289†	1445.9	81.34	5.63%	[0.00]	mg/L
Na 330.237†	487.7	52.69	10.80%	[0.00]	mg/L
Ca 227.546†	-261.8	10.70	4.09%	[0.00]	mg/L
Al RADIAL†	366.9	14.11	3.85%	[0.00]	mg/L
Fe RADIAL†	-40.4	5.77	14.30%	[0.00]	mg/L
Ca RADIAL†	2303.9	12.00	0.52%	[0.00]	mg/L
K RADIAL†	-1139.5	68.52	6.01%	[0.00]	mg/L
Mg RADIAL†	-181.4	8.94	4.93%	[0.00]	mg/L
Na RADIAL†	-198.5	94.49	47.60%	[0.00]	mg/L

Sequence No.: 2
Sample ID: CAL STD 1
Analyst:
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/8/2020 11:36:51 AM
Data Type: Reprocessed on 6/9/2020 9:30:16 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CAL STD 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	15169425.1	80363.54	0.53%	4.720	mg/L
Y RADIAL	269140.5	2837.16	1.05%	4.826	mg/L
As 188.979†	1437.7	13.00	0.90%	[1.0000]	mg/L
Tl 190.801†	1994.1	7.98	0.40%	[1.0000]	mg/L
Se 196.026†	2138.4	16.33	0.76%	[1.0000]	mg/L
Zn 206.200†	159014.0	898.69	0.57%	[5.0000]	mg/L
Sb 206.836†	1278.7	7.55	0.59%	[0.5000]	mg/L
Pb 220.353†	9516.3	91.64	0.96%	[1.0000]	mg/L
Cd 226.502†	57096.4	404.53	0.71%	[0.5000]	mg/L
Co 228.616†	165980.3	1046.71	0.63%	[5.0000]	mg/L
Ni 232.003†	90270.1	590.78	0.65%	[5.0000]	mg/L
Ba 233.527†	1365838.7	8125.16	0.59%	[20.0000]	mg/L
Mn 257.610†	3008197.9	19372.24	0.64%	[5.0000]	mg/L
Cr 267.716†	248354.4	1638.97	0.66%	[2.0000]	mg/L
Fe 273.955†	189422.6	1174.90	0.62%	[10.0000]	mg/L
Mg 279.077†	925175.9	6009.87	0.65%	[50.0000]	mg/L
V 292.402†	1146387.6	7389.07	0.64%	[5.0000]	mg/L
Al 308.215†	344259.3	2624.00	0.76%	[20.0000]	mg/L
Be 313.107†	2145288.6	13483.80	0.63%	[0.5000]	mg/L
Cu 324.752†	610845.3	4180.62	0.68%	[2.5000]	mg/L
Ag 338.289†	279202.6	1979.62	0.71%	[2.5000]	mg/L
Na 330.237†	31320.2	130.58	0.42%	[50.0000]	mg/L
Ca 227.546†	11055.8	77.20	0.70%	[50.0000]	mg/L
Al RADIAL†	29168.8	413.81	1.42%	[20.0000]	mg/L
Fe RADIAL†	4379.4	41.98	0.96%	[10.0000]	mg/L
Ca RADIAL†	267097.4	1371.58	0.51%	[50.0000]	mg/L
K RADIAL†	11696.6	154.67	1.32%	[10.0000]	mg/L
Mg RADIAL†	25192.1	249.41	0.99%	[50.0000]	mg/L
Na RADIAL†	304188.8	2191.19	0.72%	[50.0000]	mg/L

Sequence No.: 3
Sample ID: SEQ-ICV1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/8/2020 11:39:19 AM
Data Type: Reprocessed on 6/9/2020 9:30:17 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-ICV1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15944992.1	0.000	mg/L	0.0000				0.00%
Y RADIAL	272054.3	0.000	mg/L	0.0000				0.00%
As 188.979†	361.1	0.2508	mg/L	0.00633	0.2508	mg/L	0.00633	2.52%
Tl 190.801†	483.6	0.2431	mg/L	0.00439	0.2431	mg/L	0.00439	1.80%
Se 196.026†	586.7	0.2708	mg/L	0.01054	0.2708	mg/L	0.01054	3.89%
Zn 206.200†	80442.5	2.529	mg/L	0.0118	2.529	mg/L	0.0118	0.47%
Sb 206.836†	671.1	0.2628	mg/L	0.00722	0.2628	mg/L	0.00722	2.75%
Pb 220.353†	2397.9	0.2533	mg/L	0.00265	0.2533	mg/L	0.00265	1.05%
Cd 226.502†	14349.2	0.1252	mg/L	0.00094	0.1252	mg/L	0.00094	0.75%
Co 228.616†	83078.9	2.503	mg/L	0.0107	2.503	mg/L	0.0107	0.43%
Ni 232.003†	44236.5	2.451	mg/L	0.0075	2.451	mg/L	0.0075	0.31%
Ba 233.527†	675879.1	9.897	mg/L	0.0420	9.897	mg/L	0.0420	0.42%
Mn 257.610†	1493868.4	2.484	mg/L	0.0107	2.484	mg/L	0.0107	0.43%
Cr 267.716†	125018.6	1.007	mg/L	0.0038	1.007	mg/L	0.0038	0.38%
Fe 273.955†	94551.4	4.992	mg/L	0.0153	4.992	mg/L	0.0153	0.31%
Mg 279.077†	454201.1	24.55	mg/L	0.109	24.55	mg/L	0.109	0.44%
V 292.402†	558094.7	2.434	mg/L	0.0086	2.434	mg/L	0.0086	0.35%
Al 308.215†	164536.6	9.558	mg/L	0.0370	9.558	mg/L	0.0370	0.39%
Be 313.107†	1043235.0	0.24315	mg/L	0.000970	0.24315	mg/L	0.000970	0.40%
Cu 324.752†	299150.4	1.224	mg/L	0.0055	1.224	mg/L	0.0055	0.45%
Ag 338.289†	138265.5	1.238	mg/L	0.0047	1.238	mg/L	0.0047	0.38%
Na 330.237†	14418.2	23.07	mg/L	0.198	23.07	mg/L	0.198	0.86%
Ca 227.546†	5178.2	23.47	mg/L	0.097	23.47	mg/L	0.097	0.41%
Al RADIAL†	14633.2	10.03	mg/L	0.412	10.03	mg/L	0.412	4.11%
Fe RADIAL†	2251.2	5.140	mg/L	0.1901	5.140	mg/L	0.1901	3.70%
Ca RADIAL†	134886.2	25.25	mg/L	1.264	25.25	mg/L	1.264	5.00%
K RADIAL†	5783.1	4.944	mg/L	0.1761	4.944	mg/L	0.1761	3.56%
Mg RADIAL†	13026.2	25.85	mg/L	1.010	25.85	mg/L	1.010	3.91%
Na RADIAL†	152284.6	25.03	mg/L	1.287	25.03	mg/L	1.287	5.14%

Sequence No.: 4
Sample ID: SEQ-ICB1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/8/2020 11:42:25 AM
Data Type: Reprocessed on 6/9/2020 9:30:18 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-ICB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	16248152.2	0.000	mg/L	0.0000				0.00%
Y RADIAL	285908.5	0.000	mg/L	0.0000				0.00%
As 188.979†	7.3	0.0051	mg/L	0.00979	0.0051	mg/L	0.00979	193.68%
Tl 190.801†	3.6	0.0018	mg/L	0.00384	0.0018	mg/L	0.00384	213.69%
Se 196.026†	10.0	0.0047	mg/L	0.00486	0.0047	mg/L	0.00486	103.91%
Zn 206.200†	-26.2	-0.0008	mg/L	0.00043	-0.0008	mg/L	0.00043	52.50%
Sb 206.836†	-5.6	-0.0022	mg/L	0.00069	-0.0022	mg/L	0.00069	31.51%
Pb 220.353†	-1.1	-0.0001	mg/L	0.00129	-0.0001	mg/L	0.00129	>999.9%
Cd 226.502†	-6.4	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	48.23%
Co 228.616†	17.7	0.0005	mg/L	0.00017	0.0005	mg/L	0.00017	31.56%
Ni 232.003†	17.1	0.0009	mg/L	0.00048	0.0009	mg/L	0.00048	50.47%
Ba 233.527†	24.7	0.0004	mg/L	0.00020	0.0004	mg/L	0.00020	54.08%
Mn 257.610†	60.3	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	10.94%
Cr 267.716†	-38.6	-0.0003	mg/L	0.00027	-0.0003	mg/L	0.00027	87.51%
Fe 273.955†	-8.4	-0.0004	mg/L	0.00055	-0.0004	mg/L	0.00055	124.94%
Mg 279.077†	2.6	0.0001	mg/L	0.00080	0.0001	mg/L	0.00080	568.95%
V 292.402†	146.7	0.0006	mg/L	0.00013	0.0006	mg/L	0.00013	20.61%
Al 308.215†	376.7	0.0219	mg/L	0.00408	0.0219	mg/L	0.00408	18.66%
Be 313.107†	-273.4	-0.00006	mg/L	0.000062	-0.00006	mg/L	0.000062	97.83%
Cu 324.752†	221.5	0.0009	mg/L	0.00029	0.0009	mg/L	0.00029	32.45%
Ag 338.289†	12.1	0.0001	mg/L	0.00045	0.0001	mg/L	0.00045	417.08%
Na 330.237†	-51.8	-0.0828	mg/L	0.17314	-0.0828	mg/L	0.17314	208.99%
Ca 227.546†	4.4	0.0199	mg/L	0.04582	0.0199	mg/L	0.04582	230.06%
Al RADIAL†	22.7	0.0156	mg/L	0.01293	0.0156	mg/L	0.01293	83.13%
Fe RADIAL†	-4.6	-0.0105	mg/L	0.00637	-0.0105	mg/L	0.00637	60.93%
Ca RADIAL†	-204.4	-0.0383	mg/L	0.00381	-0.0383	mg/L	0.00381	9.96%
K RADIAL†	-68.5	-0.0585	mg/L	0.04675	-0.0585	mg/L	0.04675	79.87%
Mg RADIAL†	-1.6	-0.0032	mg/L	0.02645	-0.0032	mg/L	0.02645	827.28%
Na RADIAL†	86.8	0.0143	mg/L	0.00815	0.0143	mg/L	0.00815	57.12%

Sequence No.: 5
Sample ID: SEQ-CRL1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/8/2020 11:45:21 AM
Data Type: Reprocessed on 6/9/2020 9:30:19 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CRL1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	16532746.5	0.000	mg/L	0.0000				0.00%
Y RADIAL	288638.7	0.000	mg/L	0.0000				0.00%
As 188.979†	24.5	0.0170	mg/L	0.00509	0.0170	mg/L	0.00509	29.86%
Tl 190.801†	46.6	0.0234	mg/L	0.00573	0.0234	mg/L	0.00573	24.49%
Se 196.026†	47.0	0.0216	mg/L	0.00597	0.0216	mg/L	0.00597	27.59%
Zn 206.200†	1597.6	0.0502	mg/L	0.00040	0.0502	mg/L	0.00040	0.79%
Sb 206.836†	64.9	0.0254	mg/L	0.00157	0.0254	mg/L	0.00157	6.16%
Pb 220.353†	44.8	0.0047	mg/L	0.00143	0.0047	mg/L	0.00143	30.07%
Cd 226.502†	356.3	0.0031	mg/L	0.00010	0.0031	mg/L	0.00010	3.31%
Co 228.616†	144.2	0.0043	mg/L	0.00019	0.0043	mg/L	0.00019	4.47%
Ni 232.003†	142.6	0.0080	mg/L	0.00111	0.0080	mg/L	0.00111	13.86%
Ba 233.527†	1756.2	0.0257	mg/L	0.00030	0.0257	mg/L	0.00030	1.17%
Mn 257.610†	5877.0	0.0099	mg/L	0.00021	0.0099	mg/L	0.00021	2.08%
Cr 267.716†	620.6	0.0050	mg/L	0.00037	0.0050	mg/L	0.00037	7.37%
Fe 273.955†	9122.2	0.4816	mg/L	0.00371	0.4816	mg/L	0.00371	0.77%
Mg 279.077†	8982.0	0.4853	mg/L	0.00644	0.4853	mg/L	0.00644	1.33%
V 292.402†	2266.1	0.0099	mg/L	0.00031	0.0099	mg/L	0.00031	3.13%
Al 308.215†	7797.2	0.4530	mg/L	0.00941	0.4530	mg/L	0.00941	2.08%
Be 313.107†	2210.8	0.00052	mg/L	0.000063	0.00052	mg/L	0.000063	12.26%
Cu 324.752†	9016.5	0.0369	mg/L	0.00065	0.0369	mg/L	0.00065	1.76%
Ag 338.289†	996.5	0.0089	mg/L	0.00049	0.0089	mg/L	0.00049	5.55%
Na 330.237†	359.2	0.5767	mg/L	0.11607	0.5767	mg/L	0.11607	20.13%
Ca 227.546†	195.6	0.8890	mg/L	0.10741	0.8890	mg/L	0.10741	12.08%
Al RADIAL†	726.5	0.4982	mg/L	0.03370	0.4982	mg/L	0.03370	6.77%
Fe RADIAL†	213.7	0.4880	mg/L	0.00578	0.4880	mg/L	0.00578	1.18%
Ca RADIAL†	5669.5	1.061	mg/L	0.0131	1.061	mg/L	0.0131	1.23%
K RADIAL†	451.6	0.3861	mg/L	0.02387	0.3861	mg/L	0.02387	6.18%
Mg RADIAL†	253.0	0.5021	mg/L	0.02613	0.5021	mg/L	0.02613	5.20%
Na RADIAL†	2974.9	0.4890	mg/L	0.00640	0.4890	mg/L	0.00640	1.31%

Sequence No.: 7
Sample ID: SEQ-IFA1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 6/8/2020 11:51:13 AM
Data Type: Reprocessed on 6/9/2020 9:30:21 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-IFA1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14615048.5	0.000	mg/L	0.0000				0.00%
Y RADIAL	270887.8	0.000	mg/L	0.0000				0.00%
As 188.979†	20.0	0.0004	mg/L	0.00413	0.0004	mg/L	0.00413	>999.9%
Tl 190.801†	-44.1	0.0004	mg/L	0.00729	0.0004	mg/L	0.00729	>999.9%
Se 196.026†	269.5	0.0005	mg/L	0.01667	0.0005	mg/L	0.01667	>999.9%
Zn 206.200†	722.7	0.0002	mg/L	0.00095	0.0002	mg/L	0.00095	599.64%
Sb 206.836†	-33.0	-0.0005	mg/L	0.00369	-0.0005	mg/L	0.00369	706.62%
Pb 220.353†	-507.0	0.0006	mg/L	0.00362	0.0006	mg/L	0.00362	647.05%
Cd 226.502†	1791.5	-0.0006	mg/L	0.00022	-0.0006	mg/L	0.00022	39.44%
Co 228.616†	-56.2	0.0001	mg/L	0.00041	0.0001	mg/L	0.00041	362.86%
Ni 232.003†	-538.0	-0.0009	mg/L	0.00627	-0.0009	mg/L	0.00627	685.25%
Ba 233.527†	255.2	0.0037	mg/L	0.00045	0.0037	mg/L	0.00045	11.98%
Mn 257.610†	-21605.5	-0.0007	mg/L	0.00031	-0.0007	mg/L	0.00031	43.30%
Cr 267.716†	-893.2	-0.0009	mg/L	0.00006	-0.0009	mg/L	0.00006	6.63%
Fe 273.955†	3462197.9	182.8	mg/L	1.68	182.8	mg/L	1.68	0.92%
Mg 279.077†	9109729.3	492.3	mg/L	1.39	492.3	mg/L	1.39	0.28%
V 292.402†	372.5	-0.0002	mg/L	0.00022	-0.0002	mg/L	0.00022	120.72%
Al 308.215†	9007544.6	523.3	mg/L	1.12	523.3	mg/L	1.12	0.21%
Be 313.107†	-759.7	-0.00018	mg/L	0.000054	-0.00018	mg/L	0.000054	30.68%
Cu 324.752†	-25.7	0.0008	mg/L	0.00024	0.0008	mg/L	0.00024	29.63%
Ag 338.289†	145.4	-0.0003	mg/L	0.00025	-0.0003	mg/L	0.00025	84.18%
Na 330.237†	-710.5	0.1564	mg/L	0.03708	0.1564	mg/L	0.03708	23.70%
Ca 227.546†	109953.6	499.2	mg/L	4.37	499.2	mg/L	4.37	0.87%
Al RADIAL†	684281.2	469.2	mg/L	3.80	469.2	mg/L	3.80	0.81%
Fe RADIAL†	79058.8	180.5	mg/L	0.21	180.5	mg/L	0.21	0.12%
Ca RADIAL†	2468838.0	462.2	mg/L	4.29	462.2	mg/L	4.29	0.93%
K RADIAL†	-23.6	-0.0202	mg/L	0.04238	-0.0202	mg/L	0.04238	209.75%
Mg RADIAL†	237312.9	471.0	mg/L	0.71	471.0	mg/L	0.71	0.15%
Na RADIAL†	138.9	0.0228	mg/L	0.00761	0.0228	mg/L	0.00761	33.34%

Sequence No.: 8
Sample ID: SEQ-IFB1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 6/8/2020 11:53:41 AM
Data Type: Reprocessed on 6/9/2020 9:30:22 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-IFB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14331660.9	0.000	mg/L	0.0000				0.00%
Y RADIAL	265806.8	0.000	mg/L	0.0000				0.00%
As 188.979†	715.2	0.4841	mg/L	0.01366	0.4841	mg/L	0.01366	2.82%
Tl 190.801†	936.7	0.4920	mg/L	0.00703	0.4920	mg/L	0.00703	1.43%
Se 196.026†	1211.0	0.4425	mg/L	0.01221	0.4425	mg/L	0.01221	2.76%
Zn 206.200†	30154.0	0.9259	mg/L	0.01922	0.9259	mg/L	0.01922	2.08%
Sb 206.836†	1220.0	0.4892	mg/L	0.00976	0.4892	mg/L	0.00976	1.99%
Pb 220.353†	8904.5	0.9898	mg/L	0.01899	0.9898	mg/L	0.01899	1.92%
Cd 226.502†	107132.2	0.9221	mg/L	0.02170	0.9221	mg/L	0.02170	2.35%
Co 228.616†	15889.4	0.4804	mg/L	0.01001	0.4804	mg/L	0.01001	2.08%
Ni 232.003†	17657.7	1.007	mg/L	0.0260	1.007	mg/L	0.0260	2.58%
Ba 233.527†	35120.9	0.5143	mg/L	0.01031	0.5143	mg/L	0.01031	2.00%
Mn 257.610†	266633.9	0.4779	mg/L	0.01067	0.4779	mg/L	0.01067	2.23%
Cr 267.716†	58147.4	0.4745	mg/L	0.01258	0.4745	mg/L	0.01258	2.65%
Fe 273.955†	3526700.3	186.2	mg/L	4.60	186.2	mg/L	4.60	2.47%
Mg 279.077†	9165641.4	495.3	mg/L	13.26	495.3	mg/L	13.26	2.68%
V 292.402†	109014.5	0.4737	mg/L	0.01128	0.4737	mg/L	0.01128	2.38%
Al 308.215†	9089545.2	528.0	mg/L	15.01	528.0	mg/L	15.01	2.84%
Be 313.107†	2052069.0	0.47827	mg/L	0.011502	0.47827	mg/L	0.011502	2.40%
Cu 324.752†	133141.7	0.5458	mg/L	0.01337	0.5458	mg/L	0.01337	2.45%
Ag 338.289†	117472.5	1.050	mg/L	0.0233	1.050	mg/L	0.0233	2.22%
Na 330.237†	343.3	1.825	mg/L	0.0947	1.825	mg/L	0.0947	5.19%
Ca 227.546†	111708.9	507.1	mg/L	12.55	507.1	mg/L	12.55	2.48%
Al RADIAL†	685225.8	469.8	mg/L	2.57	469.8	mg/L	2.57	0.55%
Fe RADIAL†	78016.6	178.1	mg/L	0.07	178.1	mg/L	0.07	0.04%
Ca RADIAL†	2455090.5	459.6	mg/L	2.86	459.6	mg/L	2.86	0.62%
K RADIAL†	1.2	0.0011	mg/L	0.01585	0.0011	mg/L	0.01585	>999.9%
Mg RADIAL†	233580.8	463.6	mg/L	0.28	463.6	mg/L	0.28	0.06%
Na RADIAL†	148.0	0.0243	mg/L	0.00945	0.0243	mg/L	0.00945	38.85%

Sequence No.: 9
Sample ID: SEQ-CCV1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 6/8/2020 11:56:10 AM
Data Type: Reprocessed on 6/9/2020 9:30:23 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15492405.7	0.000	mg/L	0.0000				0.00%
Y RADIAL	275208.1	0.000	mg/L	0.0000				0.00%
As 188.979†	689.9	0.4795	mg/L	0.00542	0.4795	mg/L	0.00542	1.13%
Tl 190.801†	967.6	0.4859	mg/L	0.00538	0.4859	mg/L	0.00538	1.11%
Se 196.026†	1043.9	0.4847	mg/L	0.00544	0.4847	mg/L	0.00544	1.12%
Zn 206.200†	79474.4	2.498	mg/L	0.0186	2.498	mg/L	0.0186	0.74%
Sb 206.836†	647.5	0.2535	mg/L	0.00469	0.2535	mg/L	0.00469	1.85%
Pb 220.353†	4620.6	0.4868	mg/L	0.00466	0.4868	mg/L	0.00466	0.96%
Cd 226.502†	28133.6	0.2459	mg/L	0.00244	0.2459	mg/L	0.00244	0.99%
Co 228.616†	82757.3	2.493	mg/L	0.0169	2.493	mg/L	0.0169	0.68%
Ni 232.003†	44435.0	2.462	mg/L	0.0230	2.462	mg/L	0.0230	0.94%
Ba 233.527†	676041.1	9.899	mg/L	0.0940	9.899	mg/L	0.0940	0.95%
Mn 257.610†	1478990.5	2.459	mg/L	0.0246	2.459	mg/L	0.0246	1.00%
Cr 267.716†	125568.5	1.011	mg/L	0.0073	1.011	mg/L	0.0073	0.72%
Fe 273.955†	95086.5	5.020	mg/L	0.0318	5.020	mg/L	0.0318	0.63%
Mg 279.077†	448918.9	24.26	mg/L	0.262	24.26	mg/L	0.262	1.08%
V 292.402†	559301.4	2.439	mg/L	0.0262	2.439	mg/L	0.0262	1.07%
Al 308.215†	167299.7	9.718	mg/L	0.0805	9.718	mg/L	0.0805	0.83%
Be 313.107†	1043010.7	0.24309	mg/L	0.002654	0.24309	mg/L	0.002654	1.09%
Cu 324.752†	302568.7	1.238	mg/L	0.0098	1.238	mg/L	0.0098	0.79%
Ag 338.289†	140167.2	1.255	mg/L	0.0090	1.255	mg/L	0.0090	0.72%
Na 330.237†	14669.6	23.47	mg/L	0.151	23.47	mg/L	0.151	0.64%
Ca 227.546†	5291.0	23.98	mg/L	0.158	23.98	mg/L	0.158	0.66%
Al RADIAL†	14394.2	9.869	mg/L	0.0555	9.869	mg/L	0.0555	0.56%
Fe RADIAL†	2177.3	4.972	mg/L	0.0371	4.972	mg/L	0.0371	0.75%
Ca RADIAL†	130118.7	24.36	mg/L	0.068	24.36	mg/L	0.068	0.28%
K RADIAL†	5694.0	4.868	mg/L	0.0379	4.868	mg/L	0.0379	0.78%
Mg RADIAL†	12486.5	24.78	mg/L	0.120	24.78	mg/L	0.120	0.48%
Na RADIAL†	148165.8	24.35	mg/L	0.106	24.35	mg/L	0.106	0.44%

Sequence No.: 10
Sample ID: SEQ-CCB1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/8/2020 11:59:16 AM
Data Type: Reprocessed on 6/9/2020 9:30:24 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16053281.0	0.000	mg/L	0.0000				0.00%
Y RADIAL	278793.0	0.000	mg/L	0.0000				0.00%
As 188.979†	6.6	0.0046	mg/L	0.00434	0.0046	mg/L	0.00434	94.42%
Tl 190.801†	-0.8	-0.0004	mg/L	0.00436	-0.0004	mg/L	0.00436	>999.9%
Se 196.026†	14.5	0.0068	mg/L	0.00204	0.0068	mg/L	0.00204	30.05%
Zn 206.200†	-25.9	-0.0008	mg/L	0.00022	-0.0008	mg/L	0.00022	26.71%
Sb 206.836†	-4.5	-0.0018	mg/L	0.00324	-0.0018	mg/L	0.00324	183.57%
Pb 220.353†	5.1	0.0005	mg/L	0.00081	0.0005	mg/L	0.00081	149.92%
Cd 226.502†	-12.3	-0.0001	mg/L	0.00027	-0.0001	mg/L	0.00027	254.26%
Co 228.616†	8.7	0.0003	mg/L	0.00042	0.0003	mg/L	0.00042	160.34%
Ni 232.003†	13.8	0.0008	mg/L	0.00107	0.0008	mg/L	0.00107	140.80%
Ba 233.527†	26.5	0.0004	mg/L	0.00013	0.0004	mg/L	0.00013	32.75%
Mn 257.610†	33.5	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	26.17%
Cr 267.716†	8.9	0.0001	mg/L	0.00026	0.0001	mg/L	0.00026	360.66%
Fe 273.955†	65.9	0.0035	mg/L	0.00095	0.0035	mg/L	0.00095	27.17%
Mg 279.077†	27.9	0.0015	mg/L	0.00428	0.0015	mg/L	0.00428	283.63%
V 292.402†	136.6	0.0006	mg/L	0.00033	0.0006	mg/L	0.00033	54.57%
Al 308.215†	597.4	0.0347	mg/L	0.00641	0.0347	mg/L	0.00641	18.47%
Be 313.107†	-118.5	-0.00003	mg/L	0.000048	-0.00003	mg/L	0.000048	173.90%
Cu 324.752†	261.6	0.0011	mg/L	0.00020	0.0011	mg/L	0.00020	18.97%
Ag 338.289†	-22.7	-0.0002	mg/L	0.00168	-0.0002	mg/L	0.00168	826.58%
Na 330.237†	-76.7	-0.1224	mg/L	0.09069	-0.1224	mg/L	0.09069	74.09%
Ca 227.546†	-11.7	-0.0530	mg/L	0.05885	-0.0530	mg/L	0.05885	110.99%
Al RADIAL†	32.8	0.0225	mg/L	0.00951	0.0225	mg/L	0.00951	42.23%
Fe RADIAL†	0.1	0.0002	mg/L	0.00134	0.0002	mg/L	0.00134	539.20%
Ca RADIAL†	-134.5	-0.0252	mg/L	0.00582	-0.0252	mg/L	0.00582	23.11%
K RADIAL†	8.0	0.0069	mg/L	0.03713	0.0069	mg/L	0.03713	539.73%
Mg RADIAL†	-6.9	-0.0137	mg/L	0.01648	-0.0137	mg/L	0.01648	120.15%
Na RADIAL†	84.7	0.0139	mg/L	0.02595	0.0139	mg/L	0.02595	186.44%

Sequence No.: 69
Sample ID: SEQ-CCV6
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 6/8/2020 2:53:30 PM
Data Type: Reprocessed on 6/9/2020 9:31:14 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV6

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14330698.1	0.000	mg/L	0.0000				0.00%
Y RADIAL	249536.3	0.000	mg/L	0.0000				0.00%
As 188.979†	696.5	0.4841	mg/L	0.00477	0.4841	mg/L	0.00477	0.98%
Tl 190.801†	961.0	0.4826	mg/L	0.00436	0.4826	mg/L	0.00436	0.90%
Se 196.026†	1059.1	0.4918	mg/L	0.00833	0.4918	mg/L	0.00833	1.69%
Zn 206.200†	77198.8	2.427	mg/L	0.0204	2.427	mg/L	0.0204	0.84%
Sb 206.836†	614.9	0.2408	mg/L	0.00437	0.2408	mg/L	0.00437	1.81%
Pb 220.353†	4592.4	0.4839	mg/L	0.00287	0.4839	mg/L	0.00287	0.59%
Cd 226.502†	27546.0	0.2408	mg/L	0.00270	0.2408	mg/L	0.00270	1.12%
Co 228.616†	82071.0	2.472	mg/L	0.0248	2.472	mg/L	0.0248	1.00%
Ni 232.003†	44447.9	2.463	mg/L	0.0244	2.463	mg/L	0.0244	0.99%
Ba 233.527†	675035.8	9.885	mg/L	0.0533	9.885	mg/L	0.0533	0.54%
Mn 257.610†	1479783.0	2.461	mg/L	0.0129	2.461	mg/L	0.0129	0.53%
Cr 267.716†	125606.6	1.012	mg/L	0.0097	1.012	mg/L	0.0097	0.96%
Fe 273.955†	94551.3	4.992	mg/L	0.0415	4.992	mg/L	0.0415	0.83%
Mg 279.077†	460246.6	24.87	mg/L	0.236	24.87	mg/L	0.236	0.95%
V 292.402†	562061.4	2.451	mg/L	0.0121	2.451	mg/L	0.0121	0.49%
Al 308.215†	168494.9	9.788	mg/L	0.0874	9.788	mg/L	0.0874	0.89%
Be 313.107†	1041776.9	0.24281	mg/L	0.001187	0.24281	mg/L	0.001187	0.49%
Cu 324.752†	306407.8	1.254	mg/L	0.0109	1.254	mg/L	0.0109	0.87%
Ag 338.289†	141990.9	1.271	mg/L	0.0085	1.271	mg/L	0.0085	0.67%
Na 330.237†	14861.6	23.77	mg/L	0.244	23.77	mg/L	0.244	1.03%
Ca 227.546†	5368.7	24.33	mg/L	0.215	24.33	mg/L	0.215	0.88%
Al RADIAL†	14896.5	10.21	mg/L	0.090	10.21	mg/L	0.090	0.88%
Fe RADIAL†	2195.1	5.012	mg/L	0.0354	5.012	mg/L	0.0354	0.71%
Ca RADIAL†	132541.5	24.81	mg/L	0.103	24.81	mg/L	0.103	0.41%
K RADIAL†	5864.2	5.014	mg/L	0.0338	5.014	mg/L	0.0338	0.67%
Mg RADIAL†	12512.1	24.83	mg/L	0.248	24.83	mg/L	0.248	1.00%
Na RADIAL†	156355.5	25.70	mg/L	0.126	25.70	mg/L	0.126	0.49%

Sequence No.: 70
Sample ID: SEQ-CCB6
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/8/2020 2:56:36 PM
Data Type: Reprocessed on 6/9/2020 9:31:14 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCB6

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14540005.9	0.000	mg/L	0.0000				0.00%
Y RADIAL	254300.9	0.000	mg/L	0.0000				0.00%
As 188.979†	4.1	0.0029	mg/L	0.00416	0.0029	mg/L	0.00416	144.75%
Tl 190.801†	4.6	0.0023	mg/L	0.00673	0.0023	mg/L	0.00673	289.93%
Se 196.026†	-2.4	-0.0011	mg/L	0.00452	-0.0011	mg/L	0.00452	398.50%
Zn 206.200†	-11.4	-0.0004	mg/L	0.00029	-0.0004	mg/L	0.00029	81.92%
Sb 206.836†	-1.5	-0.0006	mg/L	0.00177	-0.0006	mg/L	0.00177	298.01%
Pb 220.353†	2.0	0.0002	mg/L	0.00144	0.0002	mg/L	0.00144	637.26%
Cd 226.502†	-17.1	-0.0001	mg/L	0.00015	-0.0001	mg/L	0.00015	103.94%
Co 228.616†	18.4	0.0006	mg/L	0.00016	0.0006	mg/L	0.00016	29.58%
Ni 232.003†	-66.8	-0.0037	mg/L	0.00114	-0.0037	mg/L	0.00114	30.68%
Ba 233.527†	37.1	0.0005	mg/L	0.00023	0.0005	mg/L	0.00023	42.02%
Mn 257.610†	223.0	0.0004	mg/L	0.00003	0.0004	mg/L	0.00003	6.91%
Cr 267.716†	-50.7	-0.0004	mg/L	0.00023	-0.0004	mg/L	0.00023	57.13%
Fe 273.955†	18.6	0.0010	mg/L	0.00076	0.0010	mg/L	0.00076	77.47%
Mg 279.077†	-45.0	-0.0024	mg/L	0.00296	-0.0024	mg/L	0.00296	122.03%
V 292.402†	56.9	0.0002	mg/L	0.00013	0.0002	mg/L	0.00013	54.07%
Al 308.215†	1752.2	0.1018	mg/L	0.01029	0.1018	mg/L	0.01029	10.11%
Be 313.107†	-347.3	-0.00008	mg/L	0.000048	-0.00008	mg/L	0.000048	58.97%
Cu 324.752†	532.6	0.0022	mg/L	0.00037	0.0022	mg/L	0.00037	16.97%
Ag 338.289†	-9.6	-0.0001	mg/L	0.00128	-0.0001	mg/L	0.00128	>999.9%
Na 330.237†	-60.8	-0.0971	mg/L	0.11661	-0.0971	mg/L	0.11661	120.11%
Ca 227.546†	-34.8	-0.1573	mg/L	0.06773	-0.1573	mg/L	0.06773	43.05%
Al RADIAL†	131.6	0.0902	mg/L	0.01424	0.0902	mg/L	0.01424	15.78%
Fe RADIAL†	-3.1	-0.0072	mg/L	0.01561	-0.0072	mg/L	0.01561	217.73%
Ca RADIAL†	-183.2	-0.0343	mg/L	0.00359	-0.0343	mg/L	0.00359	10.48%
K RADIAL†	-13.2	-0.0113	mg/L	0.08761	-0.0113	mg/L	0.08761	777.81%
Mg RADIAL†	3.5	0.0070	mg/L	0.01419	0.0070	mg/L	0.01419	202.92%
Na RADIAL†	255.6	0.0420	mg/L	0.00856	0.0420	mg/L	0.00856	20.37%

Sequence No.: 73
Sample ID: 20F0067-01
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 153
Date Collected: 6/8/2020 3:04:52 PM
Data Type: Reprocessed on 6/9/2020 9:31:17 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20F0067-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	13451460.1	0.000	mg/L	0.0000				0.00%
Y RADIAL	233621.4	0.000	mg/L	0.0000				0.00%
As 188.979†	36.7	0.0247	mg/L	0.00732	0.0247	mg/L	0.00732	29.59%
Tl 190.801†	-41.8	-0.0196	mg/L	0.00407	-0.0196	mg/L	0.00407	20.74%
Se 196.026†	214.3	0.0929	mg/L	0.00894	0.0929	mg/L	0.00894	9.62%
Zn 206.200†	1079.2	0.0326	mg/L	0.00013	0.0326	mg/L	0.00013	0.39%
Sb 206.836†	-1.1	0.0003	mg/L	0.00351	0.0003	mg/L	0.00351	>999.9%
Pb 220.353†	16.8	0.0042	mg/L	0.00072	0.0042	mg/L	0.00072	17.30%
Cd 226.502†	1294.2	0.0104	mg/L	0.00015	0.0104	mg/L	0.00015	1.46%
Co 228.616†	3087.3	0.0931	mg/L	0.00093	0.0931	mg/L	0.00093	0.99%
Ni 232.003†	5307.3	0.2956	mg/L	0.00249	0.2956	mg/L	0.00249	0.84%
Ba 233.527†	5926.2	0.0868	mg/L	0.00075	0.0868	mg/L	0.00075	0.87%
Mn 257.610†	1846145.5	3.071	mg/L	0.0107	3.071	mg/L	0.0107	0.35%
Cr 267.716†	2076.2	0.0171	mg/L	0.00021	0.0171	mg/L	0.00021	1.20%
Fe 273.955†	199668.5	10.54	mg/L	0.028	10.54	mg/L	0.028	0.27%
Mg 279.077†	1125017.9	60.80	mg/L	0.193	60.80	mg/L	0.193	0.32%
V 292.402†	996.3	0.0042	mg/L	0.00021	0.0042	mg/L	0.00021	4.91%
Al 308.215†	47860.7	2.774	mg/L	0.0207	2.774	mg/L	0.0207	0.75%
Be 313.107†	-216.1	-0.00005	mg/L	0.000066	-0.00005	mg/L	0.000066	130.87%
Cu 324.752†	5973.3	0.0245	mg/L	0.00041	0.0245	mg/L	0.00041	1.66%
Ag 338.289†	242.6	0.0001	mg/L	0.00144	0.0001	mg/L	0.00144	>999.9%
Na 330.237†	144422.8	230.8	mg/L	1.32	230.8	mg/L	1.32	0.57%
Ca 227.546†	45047.0	203.8	mg/L	1.21	203.8	mg/L	1.21	0.59%
Al RADIAL†	3917.7	2.681	mg/L	0.0334	2.681	mg/L	0.0334	1.25%
Fe RADIAL†	4580.7	10.46	mg/L	0.102	10.46	mg/L	0.102	0.98%
Ca RADIAL†	1075483.2	201.3	mg/L	0.33	201.3	mg/L	0.33	0.17%
K RADIAL†	5973.0	5.107	mg/L	0.0544	5.107	mg/L	0.0544	1.07%
Mg RADIAL†	31038.1	61.60	mg/L	0.249	61.60	mg/L	0.249	0.40%
Na RADIAL†	1411759.1	232.1	mg/L	0.99	232.1	mg/L	0.99	0.42%

Sequence No.: 74
Sample ID: 20F0067-02
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 154
Date Collected: 6/8/2020 3:07:17 PM
Data Type: Reprocessed on 6/9/2020 9:31:18 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20F0067-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14603755.3	0.000	mg/L	0.0000				0.00%
Y RADIAL	245030.7	0.000	mg/L	0.0000				0.00%
As 188.979†	-5.0	-0.0035	mg/L	0.00612	-0.0035	mg/L	0.00612	173.16%
Tl 190.801†	-4.1	-0.0020	mg/L	0.00436	-0.0020	mg/L	0.00436	220.96%
Se 196.026†	56.8	0.0260	mg/L	0.00635	0.0260	mg/L	0.00635	24.45%
Zn 206.200†	196.3	0.0061	mg/L	0.00060	0.0061	mg/L	0.00060	9.82%
Sb 206.836†	4.0	0.0016	mg/L	0.00155	0.0016	mg/L	0.00155	95.63%
Pb 220.353†	-39.9	-0.0029	mg/L	0.00132	-0.0029	mg/L	0.00132	44.93%
Cd 226.502†	-31.0	-0.0003	mg/L	0.00013	-0.0003	mg/L	0.00013	38.93%
Co 228.616†	27.6	0.0008	mg/L	0.00036	0.0008	mg/L	0.00036	43.02%
Ni 232.003†	-125.8	-0.0068	mg/L	0.00097	-0.0068	mg/L	0.00097	14.18%
Ba 233.527†	4054.1	0.0594	mg/L	0.00081	0.0594	mg/L	0.00081	1.36%
Mn 257.610†	149027.7	0.2479	mg/L	0.00372	0.2479	mg/L	0.00372	1.50%
Cr 267.716†	182.4	0.0015	mg/L	0.00048	0.0015	mg/L	0.00048	32.21%
Fe 273.955†	15094.3	0.7969	mg/L	0.00812	0.7969	mg/L	0.00812	1.02%
Mg 279.077†	206174.5	11.14	mg/L	0.148	11.14	mg/L	0.148	1.33%
V 292.402†	87.0	0.0004	mg/L	0.00038	0.0004	mg/L	0.00038	101.03%
Al 308.215†	1297.6	0.0727	mg/L	0.01585	0.0727	mg/L	0.01585	21.79%
Be 313.107†	-217.0	-0.00005	mg/L	0.000044	-0.00005	mg/L	0.000044	86.68%
Cu 324.752†	1713.2	0.0070	mg/L	0.00029	0.0070	mg/L	0.00029	4.20%
Ag 338.289†	60.1	-0.0005	mg/L	0.00098	-0.0005	mg/L	0.00098	198.50%
Na 330.237†	196178.1	313.3	mg/L	4.78	313.3	mg/L	4.78	1.53%
Ca 227.546†	20262.5	91.64	mg/L	1.258	91.64	mg/L	1.258	1.37%
Al RADIAL†	169.7	0.1137	mg/L	0.01012	0.1137	mg/L	0.01012	8.90%
Fe RADIAL†	363.0	0.8288	mg/L	0.02021	0.8288	mg/L	0.02021	2.44%
Ca RADIAL†	496117.0	92.87	mg/L	1.290	92.87	mg/L	1.290	1.39%
K RADIAL†	7562.9	6.466	mg/L	0.1295	6.466	mg/L	0.1295	2.00%
Mg RADIAL†	5959.1	11.83	mg/L	0.143	11.83	mg/L	0.143	1.21%
Na RADIAL†	1883815.1	309.6	mg/L	3.49	309.6	mg/L	3.49	1.13%

Sequence No.: 75
Sample ID: 20F0067-03
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 155
Date Collected: 6/8/2020 3:10:21 PM
Data Type: Reprocessed on 6/9/2020 9:31:18 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20F0067-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14597201.0	0.000	mg/L	0.0000				0.00%
Y RADIAL	254499.8	0.000	mg/L	0.0000				0.00%
As 188.979†	20.5	0.0138	mg/L	0.00987	0.0138	mg/L	0.00987	71.36%
Tl 190.801†	-41.1	-0.0199	mg/L	0.00645	-0.0199	mg/L	0.00645	32.38%
Se 196.026†	194.9	0.0873	mg/L	0.01407	0.0873	mg/L	0.01407	16.12%
Zn 206.200†	710.3	0.0216	mg/L	0.00040	0.0216	mg/L	0.00040	1.87%
Sb 206.836†	-1.3	-0.0001	mg/L	0.00281	-0.0001	mg/L	0.00281	>999.9%
Pb 220.353†	-3.1	0.0021	mg/L	0.00128	0.0021	mg/L	0.00128	60.55%
Cd 226.502†	1120.5	0.0093	mg/L	0.00015	0.0093	mg/L	0.00015	1.56%
Co 228.616†	2970.7	0.0895	mg/L	0.00112	0.0895	mg/L	0.00112	1.25%
Ni 232.003†	5199.0	0.2889	mg/L	0.00514	0.2889	mg/L	0.00514	1.78%
Ba 233.527†	5160.6	0.0756	mg/L	0.00134	0.0756	mg/L	0.00134	1.77%
Mn 257.610†	1753838.7	2.916	mg/L	0.0500	2.916	mg/L	0.0500	1.72%
Cr 267.716†	1434.0	0.0117	mg/L	0.00032	0.0117	mg/L	0.00032	2.71%
Fe 273.955†	103956.8	5.488	mg/L	0.0973	5.488	mg/L	0.0973	1.77%
Mg 279.077†	1093292.5	59.08	mg/L	1.055	59.08	mg/L	1.055	1.79%
V 292.402†	218.6	0.0009	mg/L	0.00028	0.0009	mg/L	0.00028	31.40%
Al 308.215†	8616.7	0.4939	mg/L	0.01580	0.4939	mg/L	0.01580	3.20%
Be 313.107†	137.0	0.00003	mg/L	0.000030	0.00003	mg/L	0.000030	94.36%
Cu 324.752†	4732.6	0.0194	mg/L	0.00089	0.0194	mg/L	0.00089	4.59%
Ag 338.289†	-41.0	-0.0025	mg/L	0.00046	-0.0025	mg/L	0.00046	18.61%
Na 330.237†	142681.5	228.0	mg/L	3.89	228.0	mg/L	3.89	1.71%
Ca 227.546†	43766.0	198.0	mg/L	3.12	198.0	mg/L	3.12	1.58%
Al RADIAL†	753.9	0.5116	mg/L	0.02272	0.5116	mg/L	0.02272	4.44%
Fe RADIAL†	2429.4	5.547	mg/L	0.0928	5.547	mg/L	0.0928	1.67%
Ca RADIAL†	1052700.9	197.1	mg/L	2.52	197.1	mg/L	2.52	1.28%
K RADIAL†	5773.6	4.936	mg/L	0.1024	4.936	mg/L	0.1024	2.08%
Mg RADIAL†	30524.2	60.58	mg/L	0.870	60.58	mg/L	0.870	1.44%
Na RADIAL†	1387418.8	228.1	mg/L	3.27	228.1	mg/L	3.27	1.43%

Sequence No.: 76
Sample ID: 20F0067-06
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 156
Date Collected: 6/8/2020 3:13:18 PM
Data Type: Reprocessed on 6/9/2020 9:31:19 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20F0067-06

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	13961510.5	0.000	mg/L	0.0000				0.00%
Y RADIAL	253410.9	0.000	mg/L	0.0000				0.00%
As 188.979†	1.3	0.0009	mg/L	0.00586	0.0009	mg/L	0.00586	670.36%
Tl 190.801†	-25.8	-0.0129	mg/L	0.00433	-0.0129	mg/L	0.00433	33.54%
Se 196.026†	75.6	0.0353	mg/L	0.00629	0.0353	mg/L	0.00629	17.82%
Zn 206.200†	225.7	0.0071	mg/L	0.00027	0.0071	mg/L	0.00027	3.85%
Sb 206.836†	4.1	0.0016	mg/L	0.00520	0.0016	mg/L	0.00520	323.57%
Pb 220.353†	-33.4	-0.0017	mg/L	0.00103	-0.0017	mg/L	0.00103	61.04%
Cd 226.502†	-28.6	-0.0003	mg/L	0.00014	-0.0003	mg/L	0.00014	53.06%
Co 228.616†	12.1	0.0004	mg/L	0.00030	0.0004	mg/L	0.00030	80.96%
Ni 232.003†	-208.6	-0.0115	mg/L	0.00255	-0.0115	mg/L	0.00255	22.12%
Ba 233.527†	3171.4	0.0464	mg/L	0.00070	0.0464	mg/L	0.00070	1.50%
Mn 257.610†	710910.5	1.182	mg/L	0.0104	1.182	mg/L	0.0104	0.88%
Cr 267.716†	125.7	0.0010	mg/L	0.00017	0.0010	mg/L	0.00017	16.59%
Fe 273.955†	721.8	0.0381	mg/L	0.00063	0.0381	mg/L	0.00063	1.66%
Mg 279.077†	392213.0	21.20	mg/L	0.153	21.20	mg/L	0.153	0.72%
V 292.402†	249.1	0.0011	mg/L	0.00017	0.0011	mg/L	0.00017	15.33%
Al 308.215†	1053.5	0.0573	mg/L	0.00842	0.0573	mg/L	0.00842	14.70%
Be 313.107†	-799.1	-0.00019	mg/L	0.000071	-0.00019	mg/L	0.000071	37.85%
Cu 324.752†	1316.6	0.0054	mg/L	0.00064	0.0054	mg/L	0.00064	11.85%
Ag 338.289†	-27.8	-0.0017	mg/L	0.00055	-0.0017	mg/L	0.00055	32.26%
Na 330.237†	343449.7	548.4	mg/L	3.66	548.4	mg/L	3.66	0.67%
Ca 227.546†	30206.9	136.6	mg/L	1.19	136.6	mg/L	1.19	0.87%
Al RADIAL†	125.4	0.0822	mg/L	0.03341	0.0822	mg/L	0.03341	40.65%
Fe RADIAL†	22.3	0.0509	mg/L	0.01580	0.0509	mg/L	0.01580	31.03%
Ca RADIAL†	687184.3	128.6	mg/L	2.81	128.6	mg/L	2.81	2.18%
K RADIAL†	7631.9	6.525	mg/L	0.0425	6.525	mg/L	0.0425	0.65%
Mg RADIAL†	10340.1	20.52	mg/L	0.265	20.52	mg/L	0.265	1.29%
Na RADIAL†	2870243.2	471.8	mg/L	8.31	471.8	mg/L	8.31	1.76%

Sequence No.: 81
Sample ID: SEQ-CCV7
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 6/8/2020 3:28:21 PM
Data Type: Reprocessed on 6/9/2020 9:31:23 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV7

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14927478.3	0.000	mg/L	0.0000				0.00%
Y RADIAL	258547.4	0.000	mg/L	0.0000				0.00%
As 188.979†	670.7	0.4661	mg/L	0.00591	0.4661	mg/L	0.00591	1.27%
Tl 190.801†	945.8	0.4749	mg/L	0.00486	0.4749	mg/L	0.00486	1.02%
Se 196.026†	1015.0	0.4713	mg/L	0.00401	0.4713	mg/L	0.00401	0.85%
Zn 206.200†	75096.5	2.361	mg/L	0.0310	2.361	mg/L	0.0310	1.31%
Sb 206.836†	587.8	0.2302	mg/L	0.00139	0.2302	mg/L	0.00139	0.60%
Pb 220.353†	4431.3	0.4669	mg/L	0.00200	0.4669	mg/L	0.00200	0.43%
Cd 226.502†	26793.2	0.2342	mg/L	0.00273	0.2342	mg/L	0.00273	1.17%
Co 228.616†	80030.0	2.411	mg/L	0.0328	2.411	mg/L	0.0328	1.36%
Ni 232.003†	43241.0	2.396	mg/L	0.0275	2.396	mg/L	0.0275	1.15%
Ba 233.527†	655669.2	9.601	mg/L	0.0894	9.601	mg/L	0.0894	0.93%
Mn 257.610†	1435309.3	2.387	mg/L	0.0214	2.387	mg/L	0.0214	0.90%
Cr 267.716†	121761.4	0.9807	mg/L	0.01274	0.9807	mg/L	0.01274	1.30%
Fe 273.955†	91739.6	4.843	mg/L	0.0601	4.843	mg/L	0.0601	1.24%
Mg 279.077†	430418.9	23.26	mg/L	0.215	23.26	mg/L	0.215	0.93%
V 292.402†	544822.3	2.376	mg/L	0.0198	2.376	mg/L	0.0198	0.84%
Al 308.215†	163970.9	9.525	mg/L	0.1209	9.525	mg/L	0.1209	1.27%
Be 313.107†	1010846.4	0.23560	mg/L	0.002030	0.23560	mg/L	0.002030	0.86%
Cu 324.752†	296917.0	1.215	mg/L	0.0131	1.215	mg/L	0.0131	1.07%
Ag 338.289†	137537.3	1.231	mg/L	0.0099	1.231	mg/L	0.0099	0.81%
Na 330.237†	14499.0	23.19	mg/L	0.149	23.19	mg/L	0.149	0.64%
Ca 227.546†	5215.6	23.64	mg/L	0.117	23.64	mg/L	0.117	0.50%
Al RADIAL†	14348.1	9.838	mg/L	0.0571	9.838	mg/L	0.0571	0.58%
Fe RADIAL†	2125.0	4.852	mg/L	0.0321	4.852	mg/L	0.0321	0.66%
Ca RADIAL†	128097.4	23.98	mg/L	0.027	23.98	mg/L	0.027	0.11%
K RADIAL†	5722.8	4.893	mg/L	0.0372	4.893	mg/L	0.0372	0.76%
Mg RADIAL†	12136.5	24.09	mg/L	0.144	24.09	mg/L	0.144	0.60%
Na RADIAL†	151367.3	24.88	mg/L	0.071	24.88	mg/L	0.071	0.29%

Sequence No.: 82
Sample ID: SEQ-CCB7
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/8/2020 3:31:27 PM
Data Type: Reprocessed on 6/9/2020 9:31:24 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCB7

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15013824.6	0.000	mg/L	0.0000				0.00%
Y RADIAL	257847.0	0.000	mg/L	0.0000				0.00%
As 188.979†	4.1	0.0028	mg/L	0.00182	0.0028	mg/L	0.00182	64.39%
Tl 190.801†	2.2	0.0011	mg/L	0.00191	0.0011	mg/L	0.00191	169.16%
Se 196.026†	-11.4	-0.0053	mg/L	0.00385	-0.0053	mg/L	0.00385	71.99%
Zn 206.200†	-18.2	-0.0006	mg/L	0.00021	-0.0006	mg/L	0.00021	35.90%
Sb 206.836†	3.2	0.0013	mg/L	0.00294	0.0013	mg/L	0.00294	231.26%
Pb 220.353†	-13.9	-0.0015	mg/L	0.00213	-0.0015	mg/L	0.00213	146.53%
Cd 226.502†	-6.3	-0.0001	mg/L	0.00015	-0.0001	mg/L	0.00015	265.60%
Co 228.616†	9.5	0.0003	mg/L	0.00049	0.0003	mg/L	0.00049	170.73%
Ni 232.003†	-44.0	-0.0024	mg/L	0.00159	-0.0024	mg/L	0.00159	65.36%
Ba 233.527†	21.8	0.0003	mg/L	0.00019	0.0003	mg/L	0.00019	58.80%
Mn 257.610†	75.9	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	27.29%
Cr 267.716†	-33.4	-0.0003	mg/L	0.00092	-0.0003	mg/L	0.00092	340.65%
Fe 273.955†	15.6	0.0008	mg/L	0.00088	0.0008	mg/L	0.00088	106.82%
Mg 279.077†	-25.6	-0.0014	mg/L	0.00251	-0.0014	mg/L	0.00251	181.24%
V 292.402†	110.1	0.0005	mg/L	0.00036	0.0005	mg/L	0.00036	74.00%
Al 308.215†	1464.4	0.0851	mg/L	0.00397	0.0851	mg/L	0.00397	4.67%
Be 313.107†	-170.0	-0.00004	mg/L	0.000061	-0.00004	mg/L	0.000061	153.92%
Cu 324.752†	345.2	0.0014	mg/L	0.00031	0.0014	mg/L	0.00031	21.83%
Ag 338.289†	-91.5	-0.0008	mg/L	0.00119	-0.0008	mg/L	0.00119	145.73%
Na 330.237†	-109.9	-0.1755	mg/L	0.05968	-0.1755	mg/L	0.05968	34.00%
Ca 227.546†	-31.9	-0.1443	mg/L	0.05714	-0.1443	mg/L	0.05714	39.60%
Al RADIAL†	138.0	0.0946	mg/L	0.01118	0.0946	mg/L	0.01118	11.82%
Fe RADIAL†	0.6	0.0015	mg/L	0.01749	0.0015	mg/L	0.01749	>999.9%
Ca RADIAL†	-189.2	-0.0354	mg/L	0.00251	-0.0354	mg/L	0.00251	7.09%
K RADIAL†	-34.0	-0.0291	mg/L	0.04375	-0.0291	mg/L	0.04375	150.32%
Mg RADIAL†	-4.8	-0.0095	mg/L	0.02635	-0.0095	mg/L	0.02635	278.68%
Na RADIAL†	222.9	0.0366	mg/L	0.01860	0.0366	mg/L	0.01860	50.77%

York Analytical Laboratories, Inc.
SDG: 20F0067
CLASS: METALS
METHOD: EPA 6010D

DATA PACKAGE COVER PAGE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Client Sample Id:	Lab Sample Id:
KC-MW-01 0620	20F0067-01

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:  Name: Benjamin Gulizia

Date: 6/12/2020 Title: Laboratory Director

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 6010D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00340	Laboratory ID:	BF00340-BS1
Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL

COMPOUND	SPIKE ADDED (ug/mL)	LCS CONCENTRATION (ug/mL)	LCS % REC. #	QC LIMITS REC.
Antimony (dissolved)	0.250	0.235	94.1	80 - 120
Arsenic (dissolved)	2.00	1.76	87.9	80 - 120
Beryllium (dissolved)	0.0500	0.047	94.3	80 - 120
Cadmium (dissolved)	0.0500	0.046	92.0	80 - 120
Chromium (dissolved)	0.200	0.202	101	80 - 120
Copper (dissolved)	0.250	0.241	96.6	80 - 120
Lead (dissolved)	0.500	0.457	91.3	80 - 120
Nickel (dissolved)	0.500	0.487	97.5	80 - 120
Selenium (dissolved)	2.00	1.54	77.2 *	80 - 120
Silver (dissolved)	0.0500	0.047	93.6	80 - 120
Thallium (dissolved)	2.00	1.86	93.0	80 - 120
Zinc (dissolved)	0.500	0.475	95.1	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Batch: BF00340 Batch Matrix: Water Preparation: EPA 3015A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 0620	20F0067-01	qbi060520ARE_1-112	06/05/20 12:43	
Blank	BF00340-BLK1	qbi060520ARE_1-106	06/05/20 12:43	
LCS	BF00340-BS1	qbi060520ARE_1-107	06/05/20 12:43	

FORM I **BLANKS**

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: WinLabICP Project: 41103.20 Kingston CVS

Sequence: Y0F0526 Calibration: 06/05/20 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y0F0526-ICB1	Antimony (dissolved)	0.002	0.025	ug/mL		EPA 6010D
	Arsenic (dissolved)	0.003	0.015	ug/mL		EPA 6010D
	Beryllium (dissolved)	0.00009	0.0005	ug/mL		EPA 6010D
	Cadmium (dissolved)	0.0001	0.003	ug/mL		EPA 6010D
	Chromium (dissolved)	0.0003	0.005	ug/mL		EPA 6010D
	Copper (dissolved)	-0.0003	0.020	ug/mL		EPA 6010D
	Lead (dissolved)	-0.001	0.005	ug/mL		EPA 6010D
	Nickel (dissolved)	-0.003	0.010	ug/mL		EPA 6010D
	Selenium (dissolved)	-0.005	0.025	ug/mL		EPA 6010D
	Silver (dissolved)	-0.0006	0.005	ug/mL		EPA 6010D
	Thallium (dissolved)	0.001	0.025	ug/mL		EPA 6010D
	Zinc (dissolved)	-0.006	0.025	ug/mL		EPA 6010D
Y0F0526-CCB1	Antimony (dissolved)	-0.001	0.025	ug/mL		EPA 6010D
	Arsenic (dissolved)	0.0002	0.015	ug/mL		EPA 6010D
	Beryllium (dissolved)	0.00004	0.0005	ug/mL		EPA 6010D
	Cadmium (dissolved)	-0.00008	0.003	ug/mL		EPA 6010D
	Chromium (dissolved)	0.0003	0.005	ug/mL		EPA 6010D
	Copper (dissolved)	0.002	0.020	ug/mL		EPA 6010D
	Lead (dissolved)	-0.001	0.005	ug/mL		EPA 6010D
	Nickel (dissolved)	-0.004	0.010	ug/mL		EPA 6010D
	Selenium (dissolved)	-0.003	0.025	ug/mL		EPA 6010D
	Silver (dissolved)	0.0004	0.005	ug/mL		EPA 6010D
	Thallium (dissolved)	0.003	0.025	ug/mL		EPA 6010D
	Zinc (dissolved)	-0.006	0.025	ug/mL		EPA 6010D
Y0F0526-CCB9	Antimony (dissolved)	0.00006	0.025	ug/mL		EPA 6010D
	Arsenic (dissolved)	0.005	0.015	ug/mL		EPA 6010D
	Beryllium (dissolved)	0.0002	0.0005	ug/mL		EPA 6010D
	Cadmium (dissolved)	-0.0002	0.003	ug/mL		EPA 6010D
	Chromium (dissolved)	0.0001	0.005	ug/mL		EPA 6010D
	Copper (dissolved)	0.002	0.020	ug/mL		EPA 6010D
	Lead (dissolved)	-0.003	0.005	ug/mL		EPA 6010D
	Nickel (dissolved)	0.0006	0.010	ug/mL		EPA 6010D
	Selenium (dissolved)	0.002	0.025	ug/mL		EPA 6010D

FORM I **BLANKS**

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: WinLabICP Project: 41103.20 Kingston CVS

Sequence: Y0F0526 Calibration: 06/05/20 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y0F0526-CCB9	Silver (dissolved)	0.0006	0.005	ug/mL		EPA 6010D
	Thallium (dissolved)	0.003	0.025	ug/mL		EPA 6010D
	Zinc (dissolved)	-0.005	0.025	ug/mL		EPA 6010D
BF00340-BLK1	Antimony (dissolved)	0.003	0.028	mg/L		EPA 6010D
	Arsenic (dissolved)	-0.004	0.017	mg/L		EPA 6010D
	Beryllium (dissolved)	0.0004	0.0006	mg/L		EPA 6010D
	Cadmium (dissolved)	-0.0002	0.003	mg/L		EPA 6010D
	Chromium (dissolved)	0.0005	0.006	mg/L		EPA 6010D
	Copper (dissolved)	-0.002	0.022	mg/L		EPA 6010D
	Lead (dissolved)	-0.005	0.006	mg/L		EPA 6010D
	Nickel (dissolved)	-0.005	0.011	mg/L		EPA 6010D
	Selenium (dissolved)	-0.002	0.028	mg/L		EPA 6010D
	Silver (dissolved)	-0.001	0.006	mg/L		EPA 6010D
	Thallium (dissolved)	-0.003	0.028	mg/L		EPA 6010D
	Zinc (dissolved)	-0.007	0.028	mg/L		EPA 6010D
Y0F0526-CCBA	Antimony (dissolved)	0.001	0.025	ug/mL		EPA 6010D
	Arsenic (dissolved)	0.002	0.015	ug/mL		EPA 6010D
	Beryllium (dissolved)	0.0003	0.0005	ug/mL		EPA 6010D
	Cadmium (dissolved)	-0.0001	0.003	ug/mL		EPA 6010D
	Chromium (dissolved)	-0.0003	0.005	ug/mL		EPA 6010D
	Copper (dissolved)	-0.0004	0.020	ug/mL		EPA 6010D
	Lead (dissolved)	-0.002	0.005	ug/mL		EPA 6010D
	Nickel (dissolved)	0.002	0.010	ug/mL		EPA 6010D
	Selenium (dissolved)	-0.002	0.025	ug/mL		EPA 6010D
	Silver (dissolved)	-0.0004	0.005	ug/mL		EPA 6010D
	Thallium (dissolved)	0.003	0.025	ug/mL		EPA 6010D
	Zinc (dissolved)	-0.0005	0.025	ug/mL		EPA 6010D

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010D

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Sequence:	Y0F0526	Instrument:	WinLabICP
		Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	Y0F0526-ICV1	qbi060520ARE_1-001	06/05/20 10:14
Initial Cal Blank	Y0F0526-ICB1	qbi060520ARE_1-002	06/05/20 10:17
Instrument RL Check	Y0F0526-CRL1	qbi060520ARE_1-003	06/05/20 10:20
Interference Check A	Y0F0526-IFA1	qbi060520ARE_1-005	06/05/20 10:26
Interference Check B	Y0F0526-IFB1	qbi060520ARE_1-006	06/05/20 10:28
Calibration Check	Y0F0526-CCV1	qbi060520ARE_1-007	06/05/20 10:31
Calibration Blank	Y0F0526-CCB1	qbi060520ARE_1-008	06/05/20 10:34
Calibration Check	Y0F0526-CCV9	qbi060520ARE_1-103	06/05/20 14:51
Calibration Blank	Y0F0526-CCB9	qbi060520ARE_1-104	06/05/20 14:54
Blank	BF00340-BLK1	qbi060520ARE_1-106	06/05/20 15:00
LCS	BF00340-BS1	qbi060520ARE_1-107	06/05/20 15:03
KC-MW-01 0620	20F0067-01	qbi060520ARE_1-112	06/05/20 15:17
Calibration Check	Y0F0526-CCVA	qbi060520ARE_1-115	06/05/20 15:26
Calibration Blank	Y0F0526-CCBA	qbi060520ARE_1-116	06/05/20 15:29

HOLDING TIME SUMMARY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
KC-MW-01 0620	06/01/20 12:39	06/02/20 19:05	06/05/20 12:43	4.00	180.00	06/05/20 15:17	4.11	180.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20F0067

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.20 Kingston CVS

Matrix: Water **Instrument:** WinLabICP

Analyte	LOD	LOQ	Units
Antimony (dissolved)	0.025	0.025	mg/L
Arsenic (dissolved)	0.015	0.015	mg/L
Beryllium (dissolved)	0.0005	0.0005	mg/L
Cadmium (dissolved)	0.003	0.003	mg/L
Chromium (dissolved)	0.005	0.005	mg/L
Copper (dissolved)	0.020	0.020	mg/L
Lead (dissolved)	0.005	0.005	mg/L
Nickel (dissolved)	0.010	0.010	mg/L
Selenium (dissolved)	0.025	0.025	mg/L
Silver (dissolved)	0.005	0.005	mg/L
Thallium (dissolved)	0.025	0.025	mg/L
Zinc (dissolved)	0.025	0.025	mg/L

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

KC-MW-01 0620

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Matrix: Water Laboratory ID: 20F0067-01 File ID: qbi060520ARE_1-112

Sampled: 06/01/20 12:39 Prepared: 06/05/20 12:43 Analyzed: 06/05/20 15:17

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BF00340 Sequence: Y0F0526 Calibration: 06/05/20 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-36-0	Antimony (dissolved)	0.028	1	U	EPA 6010D
7440-38-2	Arsenic (dissolved)	0.017	1	U	EPA 6010D
7440-41-7	Beryllium (dissolved)	0.0006	1	U	EPA 6010D
7440-43-9	Cadmium (dissolved)	0.003	1	U	EPA 6010D
7440-47-3	Chromium (dissolved)	0.006	1	U	EPA 6010D
7440-50-8	Copper (dissolved)	0.022	1	U	EPA 6010D
7439-92-1	Lead (dissolved)	0.006	1	U	EPA 6010D
7440-02-0	Nickel (dissolved)	0.342	1		EPA 6010D
7782-49-2	Selenium (dissolved)	0.095	1		EPA 6010D
7440-22-4	Silver (dissolved)	0.006	1	U	EPA 6010D
7440-28-0	Thallium (dissolved)	0.028	1	U	EPA 6010D
7440-66-6	Zinc (dissolved)	0.028	1	U	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Instrument ID: WinLabICP
Calibration: 06/05/20
Control Limt: +/- 10.00%
Sequence: Y0F0526

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y0F0526-ICV1	Antimony (dissolved)	0.250	0.265	106	ug/mL	EPA 6010D
	Arsenic (dissolved)	0.250	0.251	101	ug/mL	EPA 6010D
	Beryllium (dissolved)	0.250	0.241	96.2	ug/mL	EPA 6010D
	Cadmium (dissolved)	0.125	0.123	98.3	ug/mL	EPA 6010D
	Chromium (dissolved)	1.00	0.996	99.6	ug/mL	EPA 6010D
	Copper (dissolved)	1.25	1.23	98.7	ug/mL	EPA 6010D
	Lead (dissolved)	0.250	0.248	99.0	ug/mL	EPA 6010D
	Nickel (dissolved)	2.50	2.42	96.7	ug/mL	EPA 6010D
	Selenium (dissolved)	0.250	0.262	105	ug/mL	EPA 6010D
	Silver (dissolved)	1.25	1.25	99.9	ug/mL	EPA 6010D
	Thallium (dissolved)	0.250	0.244	97.4	ug/mL	EPA 6010D
	Zinc (dissolved)	2.50	2.43	97.2	ug/mL	EPA 6010D
Y0F0526-CCV1	Antimony (dissolved)	0.250	0.258	103	ug/mL	EPA 6010D
	Arsenic (dissolved)	0.500	0.502	100	ug/mL	EPA 6010D
	Beryllium (dissolved)	0.250	0.253	101	ug/mL	EPA 6010D
	Cadmium (dissolved)	0.250	0.249	99.4	ug/mL	EPA 6010D
	Chromium (dissolved)	1.00	1.01	101	ug/mL	EPA 6010D
	Copper (dissolved)	1.25	1.25	100	ug/mL	EPA 6010D
	Lead (dissolved)	0.500	0.500	100	ug/mL	EPA 6010D
	Nickel (dissolved)	2.50	2.50	100	ug/mL	EPA 6010D
	Selenium (dissolved)	0.500	0.493	98.6	ug/mL	EPA 6010D
	Silver (dissolved)	1.25	1.26	101	ug/mL	EPA 6010D
	Thallium (dissolved)	0.500	0.498	99.6	ug/mL	EPA 6010D
	Zinc (dissolved)	2.50	2.53	101	ug/mL	EPA 6010D
Y0F0526-CCV9	Antimony (dissolved)	0.250	0.259	103	ug/mL	EPA 6010D
	Arsenic (dissolved)	0.500	0.532	106	ug/mL	EPA 6010D
	Beryllium (dissolved)	0.250	0.266	107	ug/mL	EPA 6010D
	Cadmium (dissolved)	0.250	0.264	106	ug/mL	EPA 6010D
	Chromium (dissolved)	1.00	1.10	110	ug/mL	EPA 6010D
	Copper (dissolved)	1.25	1.35	108	ug/mL	EPA 6010D
	Lead (dissolved)	0.500	0.528	106	ug/mL	EPA 6010D
	Nickel (dissolved)	2.50	2.67	107	ug/mL	EPA 6010D
	Selenium (dissolved)	0.500	0.531	106	ug/mL	EPA 6010D
	Silver (dissolved)	1.25	1.36	109	ug/mL	EPA 6010D
	Thallium (dissolved)	0.500	0.526	105	ug/mL	EPA 6010D
	Zinc (dissolved)	2.50	2.69	108	ug/mL	EPA 6010D
Y0F0526-CCVA	Antimony (dissolved)	0.250	0.257	103	ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Instrument ID: WinLabICP
Calibration: 06/05/20
Control Limt: +/- 10.00%
Sequence: Y0F0526

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y0F0526-CCVA	Arsenic (dissolved)	0.500	0.534	107	ug/mL	EPA 6010D
	Beryllium (dissolved)	0.250	0.259	104	ug/mL	EPA 6010D
	Cadmium (dissolved)	0.250	0.259	104	ug/mL	EPA 6010D
	Chromium (dissolved)	1.00	1.08	108	ug/mL	EPA 6010D
	Copper (dissolved)	1.25	1.32	106	ug/mL	EPA 6010D
	Lead (dissolved)	0.500	0.519	104	ug/mL	EPA 6010D
	Nickel (dissolved)	2.50	2.63	105	ug/mL	EPA 6010D
	Selenium (dissolved)	0.500	0.519	104	ug/mL	EPA 6010D
	Silver (dissolved)	1.25	1.34	107	ug/mL	EPA 6010D
	Thallium (dissolved)	0.500	0.517	103	ug/mL	EPA 6010D
	Zinc (dissolved)	2.50	2.63	105	ug/mL	EPA 6010D

* Values outside of QC limits

CRDL STANDARD

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Instrument ID: WinLabICP
Calibration: 06/05/20
Sequence: Y0F0526

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
Y0F0526-CRL1	Antimony (dissolved)	0.0250	0.031	125	ug/mL	70 - 130
	Arsenic (dissolved)	0.0150	0.012	79.4	ug/mL	70 - 130
	Beryllium (dissolved)	0.000500	0.0005	107	ug/mL	70 - 130
	Cadmium (dissolved)	0.00300	0.004	120	ug/mL	70 - 130
	Chromium (dissolved)	0.00500	0.006	114	ug/mL	70 - 130
	Copper (dissolved)	0.0400	0.042	104	ug/mL	70 - 130
	Lead (dissolved)	0.00500	0.005	101	ug/mL	70 - 130
	Nickel (dissolved)	0.0100	0.002	16.6 *	ug/mL	70 - 130
	Selenium (dissolved)	0.0250	0.021	85.8	ug/mL	70 - 130
	Silver (dissolved)	0.0100	0.011	112	ug/mL	70 - 130
	Thallium (dissolved)	0.0250	0.023	93.2	ug/mL	70 - 130
	Zinc (dissolved)	0.0250	0.061	246 *	ug/mL	70 - 130

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Instrument ID: WinLabICP
Calibration: 06/05/20
Sequence: Y0F0526

Lab Sample ID	Analyte	True	Found	%R	Units
Y0F0526-IFA1	Antimony (dissolved)		0.00		ug/mL
	Arsenic (dissolved)		0.00		ug/mL
	Beryllium (dissolved)		0.00		ug/mL
	Cadmium (dissolved)		0.00		ug/mL
	Chromium (dissolved)		0.00		ug/mL
	Copper (dissolved)		0.00		ug/mL
	Lead (dissolved)		0.00		ug/mL
	Nickel (dissolved)		0.00		ug/mL
	Selenium (dissolved)		0.00		ug/mL
	Silver (dissolved)		0.00		ug/mL
	Thallium (dissolved)		0.00		ug/mL
	Zinc (dissolved)		0.00		ug/mL
Y0F0526-IFB1	Antimony (dissolved)	0.500	0.51	102	ug/mL
	Arsenic (dissolved)	0.500	0.51	101	ug/mL
	Beryllium (dissolved)	0.500	0.50	99.5	ug/mL
	Cadmium (dissolved)	1.00	0.96	96.0	ug/mL
	Chromium (dissolved)	0.500	0.50	99.2	ug/mL
	Copper (dissolved)	0.500	0.57	114	ug/mL
	Lead (dissolved)	1.00	1.04	104	ug/mL
	Nickel (dissolved)	1.00	1.08	108	ug/mL
	Selenium (dissolved)	0.500	0.46	91.8	ug/mL
	Silver (dissolved)	1.00	1.10	110	ug/mL
	Thallium (dissolved)	0.500	0.51	103	ug/mL
	Zinc (dissolved)	1.00	0.98	98.3	ug/mL

* Values outside of QC limits

Metals Linear Dynamic Range

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Instrument: WinLabICP

CAS NO.	Analyte	Concentration mg/L
7440-36-0	Antimony	50
7440-38-2	Arsenic	250
7440-41-7	Beryllium	12.5
7440-43-9	Cadmium	30
7440-47-3	Chromium	50
7440-50-8	Copper	62.5
7439-92-1	Lead	150
7440-02-0	Nickel	125
7782-49-2	Selenium	100
7440-22-4	Silver	62.5
7440-28-0	Thallium	125
7440-66-6	Zinc	30

IEC File Last Saved: 6/5/2020 11:56:46 AM
Printed On: 6/5/2020 11:56:57 AM

Results Data Set Name: qbi030415
Method Name: METHOD FOR IE
Results Library: C:\pe\Mikew\Results\Results.md

Interfering Analytes

	Analytes	Al RADIAL	Ca RADIAL	Fe RADIAL	Mg RADIAL
1	**Ag 338.289**	0	0.011281	-0.02	0
2	**Al 308.215**	0	0.0245069	-0.0817898	0.0376104
3	**Al RADIAL**	**n/a**	0.0296996	-0.105128	0
4	**As 188.979**	0	0	-0.01	0
7	**Ca 227.546**	-0.675005	0	-8.62387	-0.0625929
9	**Cd 226.502**	0	0	0.09	0
10	**Co 228.616**	0	0	-0.01	0
11	**Cr 267.716**	0	0	-0.035	0
12	**Cu 324.752**	0	0	-0.01	0
16	**Mg 279.077**	0	0	0.161547	0
17	**Mg RADIAL**	0	0	0.0994223	**n/a**
18	**Mn 257.610**	0	0	-0.195	0
19	**Na 330.237**	0	-0.983571	-4.63141	0
21	**Ni 232.003**	0	0	-0.11	0
22	**Pb 220.353**	-0.129664	-0.0141428	0.07	0
23	**Sb 206.836**	0.000505	0	-0.06	0
24	**Se 196.026**	0	0	0.655	0
25	**Tl 190.801**	0	0	-0.13	0
26	**V 292.402**	0	0	0.04	0
27	**Y 371.029**	9.77357	9.1591	24.475	8.93015
28	**Y RADIAL**	10.2987	9.68204	24.8989	9.399
29	**Zn 206.200**	0	0	0.09	0

BENCHSHEETS

SDG: 20F0067

CLASS: METALS

METHOD: EPA 6010D

PREPARATION BENCH SHEET-AQUEOUS: BF00340

Prepared: **06/05/2020 12:43**

York Analytical Laboratories, Inc.

Printed: 6/9/2020 6:48:44AM

Matrix: Water **Preparation EPA 3015A** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
20E0905-08 U	Metals, Target Ana	45	50							NA			
20E0905-08 U	Metals, Priority Po	45	50										Added for BatchQC in: BF00340
20F0067-01 D	Metals, Priority Po	45	50							NA			
BF00340-BLK1	QC	45	50							NA			
BF00340-BS1	QC	45	50	Y20D195	1					NA			
BF00340-DUP1	QC	45	50					20E0905-08		NA			
BF00340-MS1	QC	45	50	Y20D194	500			20E0905-08		NA			
BF00340-PS1	QC	9	10	Y20C108	100			20E0905-08		NA			[Spk] 45mL->50mL; 50mL->50mL

20E0905 Lab Filtered
20F0067 Field Filtered

Reagents:

ID Number	Description	Lot Number
Y20B219	Nitric Acid , ACS Grade 69-70%	0000239873

ID Number	Description	Lot Number
Y20E185	Hydrochloric Acid, ACS Grade 37%	0000248192

Preparation Performed by SY **Date:** 06/05/2020 12:43

Sample Information Detail Report
Document Name: 060520A

File Description
Sample Information File

Parameters Common to All Samples

Batch ID	060520A
Analyst Name	KML
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Remarks
1	3	SEQ-ICV1	
2	4	SEQ-ICB1	
3	5	SEQ-CRL1	
4	6	SEQ-CRL2	
5	7	SEQ-IFA1	
6	8	SEQ-IFB1	
7	9	SEQ-CCV1	
8	4	SEQ-CCB1	
9	101	BF000254-BLK1	
10	102	BF00254-SRM1	
11	103	20F0124-01	
12	104	20F0124-02	
13	105	20F0124-03	
14	106	20F0124-04	
15	107	20F0124-05	
16	108	20F0124-06	
17	109	20F0124-07	
18	110	20F0124-08	
19	9	SEQ-CCV2	
20	4	SEQ-CCB2	
21	111	20F0124-09	
22	112	20F0124-10	
23	113	20F0124-11	
24	114	20F0124-12	
25	115	20F0124-13	
26	116	20F0124-14	
27	117	20F0124-15	
28	118	20F0124-16	
29	119	20F0124-17	
30	120	20F0124-18	
31	9	SEQ-CCV3	
32	4	SEQ-CCB3	
33	121	20F0124-19	
34	122	BF00254-DUP1	
35	123	BF00254-MS1	
36	124	BF00254-PS1	
37	125	SEQ-SRD1	20F0124-19
38	126	BF00255-BLK1	
39	127	BF00255-SRM1	
40	128	20F0124-20	
41	129	20F0124-21	
42	130	20F0148-01	
43	9	SEQ-CCV4	
44	4	SEQ-CCB4	
45	131	20F0149-01	
46	132	20F0149-02	
47	133	20F0161-01	
48	134	20F0164-01	
49	135	20F0164-02	
50	136	20F0164-03	
51	137	20F0164-04	
52	138	20F0164-05	
53	139	20F0165-01	
54	140	20F0165-02	
55	9	SEQ-CCV5	

56	4	SEQ-CCB5	
57	141	20F0165-03	
58	142	20F0165-04	
59	143	20F0165-05	
60	144	20F0165-06	
61	145	20F0166-01	
62	146	20F0166-03	
63	147	BF00255-DUP1	
64	148	BF00255-MS1	
65	149	BF00255-PS1	
66	150	SEQ-SRD2	20F0164-04
67	9	SEQ-CCV6	
68	4	SEQ-CCB6	
69	151	20E0830-01RE1	BE01217 10X
70	152	BF00270-BLK1	
71	153	BF00270-BS1	
72	154	20F0107-02	
73	155	20F0109-02	
74	156	20F0109-04	
75	157	20F0109-06	
76	158	20F0109-08	
77	159	20F0132-01	
78	160	20F0096-04	BF00272
79	9	SEQ-CCV7	
80	4	SEQ-CCB7	
81	201	20F0096-10	BF00272
82	202	20F0096-16	BF00272
83	203	20F0096-22	BF00272
84	204	20F0096-28	BF00272
85	205	20F0096-34	BF00272
86	206	BF00209-BLK1	
87	207	BF00209-BS1	
88	208	20E0905-08	
89	209	BF00209-DUP1	
90	210	BF00209-MS1	
91	9	SEQ-CCV8	
92	4	SEQ-CCB8	
93	211	BF00209-PS1	
94	212	20F0929-20	
95	213	SEQ-SRD3	20E0905-08
96	214	BF00303-BLK1	
97	215	BF00303-SRM1	
98	216	20F0186-01	
99	217	20F0217-01	
100	218	BF00303-DUP1	
101	219	BF00303-MS1	
102	220	BF00303-PS1	
103	9	SEQ-CCV9	
104	4	SEQ-CCB9	
105	221	SEQ-SRD4	20F0217-01
106	222	BF00340-BLK1	
107	223	BF00340-BS1	
108	224	20E0905-08	
109	225	BF00340-DUP1	
110	226	BF00340-MS1	
111	227	BF00340-PS1	
112	228	20F0067-01	
113	229	SEQ-SRD5	20E0905-08
114	230	BF00289-BLK1	
115	10	SEQ-CCVA	
116	1	SEQ-CCBA	
117	231	BF00289-SRM1	
118	232	20F0147-01	
119	233	BF00355-BLK1	
120	234	BF00355-LBK1	
121	235	BF00355-BS1	
122	236	20E0901-01	
123	237	20E0901-02	

124	238	20E0904-01	
125	239	20F0001-01	
126	240	20F0147-01	
127	10	SEQ-CCVB	
128	1	SEQ-CCBB	
129	241	20F0134-01	BF00237
130	242	20F0163-05	BF00270
131	243	20F0110-01	BF00237
132	244	20F0110-02	BF00237
133	245	20F0110-03	BF00237
134	246	20F0110-04	BF00237
135	247	20F0110-05	BF00237
136	248	20F0114-01	BF00237
137	249	20F0122-01	BF00237
138	250	20F0143-01	BF00237
139	10	SEQ-CCVC	
140	1	SEQ-CCBC	
141	251	20F0143-02	BF00237
142	252	20F0143-03	BF00237
143	253	20F0143-04	BF00237
144	254	20F0143-05	BF00237
145	255	20F0162-01	BF00237
146	10	SEQ-CCVD	
147	1	SEQ-CCBD	
148	5	SEQ-CRL3	
149	6	SEQ-CRL4	
150	7	SEQ-IFA2	
151	8	SEQ-IFB2	
152	405	SEQ-HCV1	
153	1	BLANK1	
154	1	BLANK2	
155	10	SEQ-CCVE	
156	1	SEQ-CCBE	

Reprocessing Begun
Logged In Analyst: john Technique: ICP Continuous

Results Data Set (original): qbi060520A
Results Library (original): C:\pe\rqb\Results\Results 042020.mdb
Results Data Set (reprocessed): qbi060520ARE_1
Results Library (reprocessed): C:\pe\john\Results\Results 042020.mdb

Method Loaded
Method Name: TAL METH_091119FAS Method Last Saved: 9/11/2019 12:48:20 PM
IEC File: IEC 060719A.iec MSF File:
Method Description: TAL METALS

Sequence No.: 1 Autosampler Location: 1
Sample ID: Calib Blank 1 Date Collected: 6/5/2020 10:09:10 AM
Analyst: Data Type: Reprocessed on 6/8/2020 9:10:01 AM
Logged In Analyst (Original) : rqb
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	16186052.2	85081.98	0.53%	5.000	mg/L
Y RADIAL	283439.6	2530.11	0.89%	5.000	mg/L
As 188.979†	-39.5	6.26	15.84%	[0.00]	mg/L
Tl 190.801†	-63.2	7.56	11.96%	[0.00]	mg/L
Se 196.026†	85.9	17.01	19.81%	[0.00]	mg/L
Zn 206.200†	118.4	7.08	5.98%	[0.00]	mg/L
Sb 206.836†	75.3	6.11	8.12%	[0.00]	mg/L
Pb 220.353†	116.6	6.67	5.72%	[0.00]	mg/L
Cd 226.502†	-227.7	9.74	4.28%	[0.00]	mg/L
Co 228.616†	38.5	18.27	47.46%	[0.00]	mg/L
Ni 232.003†	-1284.5	9.03	0.70%	[0.00]	mg/L
Ba 233.527†	47.8	8.75	18.30%	[0.00]	mg/L
Mn 257.610†	252.4	20.52	8.13%	[0.00]	mg/L
Cr 267.716†	327.1	101.41	31.00%	[0.00]	mg/L
Fe 273.955†	-471.2	27.61	5.86%	[0.00]	mg/L
Mg 279.077†	-1015.9	64.24	6.32%	[0.00]	mg/L
V 292.402†	511.1	133.48	26.12%	[0.00]	mg/L
Al 308.215†	12984.2	67.59	0.52%	[0.00]	mg/L
Be 313.107†	-13610.7	123.00	0.90%	[0.00]	mg/L
Cu 324.752†	5181.5	46.03	0.89%	[0.00]	mg/L
Ag 338.289†	1475.4	53.70	3.64%	[0.00]	mg/L
Na 330.237†	783.6	31.52	4.02%	[0.00]	mg/L
Ca 227.546†	-253.2	9.15	3.61%	[0.00]	mg/L
Al RADIAL†	345.4	22.90	6.63%	[0.00]	mg/L
Fe RADIAL†	-36.3	1.79	4.94%	[0.00]	mg/L
Ca RADIAL†	2727.7	51.02	1.87%	[0.00]	mg/L
K RADIAL†	-1211.1	33.33	2.75%	[0.00]	mg/L
Mg RADIAL†	-176.5	14.50	8.21%	[0.00]	mg/L
Na RADIAL†	-73.4	100.92	137.42%	[0.00]	mg/L

Sequence No.: 2
Sample ID: CAL STD 1
Analyst:
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/5/2020 10:12:08 AM
Data Type: Reprocessed on 6/8/2020 9:10:02 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CAL STD 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	15817632.1	81620.33	0.52%	4.886	mg/L
Y RADIAL	282115.7	676.24	0.24%	4.977	mg/L
As 188.979†	1328.9	12.11	0.91%	[1.0000]	mg/L
Tl 190.801†	1889.2	15.71	0.83%	[1.0000]	mg/L
Se 196.026†	2003.9	10.67	0.53%	[1.0000]	mg/L
Zn 206.200†	147755.6	1838.07	1.24%	[5.0000]	mg/L
Sb 206.836†	1207.9	9.59	0.79%	[0.5000]	mg/L
Pb 220.353†	8793.4	86.58	0.98%	[1.0000]	mg/L
Cd 226.502†	52838.7	645.32	1.22%	[0.5000]	mg/L
Co 228.616†	156019.1	1614.04	1.03%	[5.0000]	mg/L
Ni 232.003†	84152.3	817.75	0.97%	[5.0000]	mg/L
Ba 233.527†	1284645.5	13660.92	1.06%	[20.0000]	mg/L
Mn 257.610†	2863289.2	31631.81	1.10%	[5.0000]	mg/L
Cr 267.716†	230594.3	2714.64	1.18%	[2.0000]	mg/L
Fe 273.955†	177538.6	2039.14	1.15%	[10.0000]	mg/L
Mg 279.077†	860391.8	10688.48	1.24%	[50.0000]	mg/L
V 292.402†	1078199.1	11744.66	1.09%	[5.0000]	mg/L
Al 308.215†	317654.8	3484.17	1.10%	[20.0000]	mg/L
Be 313.107†	2006423.1	23086.19	1.15%	[0.5000]	mg/L
Cu 324.752†	574561.5	5759.28	1.00%	[2.5000]	mg/L
Ag 338.289†	262069.9	2767.94	1.06%	[2.5000]	mg/L
Na 330.237†	28825.8	373.21	1.29%	[50.0000]	mg/L
Ca 227.546†	10566.5	86.16	0.82%	[50.0000]	mg/L
Al RADIAL†	27562.5	108.10	0.39%	[20.0000]	mg/L
Fe RADIAL†	4205.4	15.22	0.36%	[10.0000]	mg/L
Ca RADIAL†	253800.8	193.38	0.08%	[50.0000]	mg/L
K RADIAL†	11505.2	27.32	0.24%	[10.0000]	mg/L
Mg RADIAL†	24167.0	143.39	0.59%	[50.0000]	mg/L
Na RADIAL†	295276.1	480.86	0.16%	[50.0000]	mg/L

Sequence No.: 3
Sample ID: SEQ-ICV1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/5/2020 10:14:36 AM
Data Type: Reprocessed on 6/8/2020 9:10:03 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-ICV1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15875631.8	0.000	mg/L	0.0000				0.00%
Y RADIAL	282920.1	0.000	mg/L	0.0000				0.00%
As 188.979†	333.9	0.2513	mg/L	0.00767	0.2513	mg/L	0.00767	3.05%
Tl 190.801†	459.0	0.2436	mg/L	0.00660	0.2436	mg/L	0.00660	2.71%
Se 196.026†	530.8	0.2617	mg/L	0.00151	0.2617	mg/L	0.00151	0.58%
Zn 206.200†	71801.6	2.429	mg/L	0.0174	2.429	mg/L	0.0174	0.72%
Sb 206.836†	638.7	0.2647	mg/L	0.00640	0.2647	mg/L	0.00640	2.42%
Pb 220.353†	2166.3	0.2476	mg/L	0.00478	0.2476	mg/L	0.00478	1.93%
Cd 226.502†	13028.2	0.1228	mg/L	0.00053	0.1228	mg/L	0.00053	0.43%
Co 228.616†	76686.3	2.458	mg/L	0.0169	2.458	mg/L	0.0169	0.69%
Ni 232.003†	40688.5	2.418	mg/L	0.0181	2.418	mg/L	0.0181	0.75%
Ba 233.527†	629855.2	9.806	mg/L	0.0552	9.806	mg/L	0.0552	0.56%
Mn 257.610†	1409633.1	2.463	mg/L	0.0119	2.463	mg/L	0.0119	0.48%
Cr 267.716†	114823.9	0.9961	mg/L	0.00559	0.9961	mg/L	0.00559	0.56%
Fe 273.955†	87180.3	4.910	mg/L	0.0273	4.910	mg/L	0.0273	0.56%
Mg 279.077†	412712.8	23.98	mg/L	0.138	23.98	mg/L	0.138	0.58%
V 292.402†	523549.9	2.428	mg/L	0.0109	2.428	mg/L	0.0109	0.45%
Al 308.215†	152619.6	9.608	mg/L	0.0527	9.608	mg/L	0.0527	0.55%
Be 313.107†	965521.1	0.24061	mg/L	0.001155	0.24061	mg/L	0.001155	0.48%
Cu 324.752†	283545.9	1.234	mg/L	0.0082	1.234	mg/L	0.0082	0.67%
Ag 338.289†	130964.4	1.249	mg/L	0.0087	1.249	mg/L	0.0087	0.69%
Na 330.237†	13201.4	22.94	mg/L	0.116	22.94	mg/L	0.116	0.51%
Ca 227.546†	4963.4	23.54	mg/L	0.124	23.54	mg/L	0.124	0.52%
Al RADIAL†	13419.3	9.737	mg/L	0.1110	9.737	mg/L	0.1110	1.14%
Fe RADIAL†	2030.9	4.829	mg/L	0.0505	4.829	mg/L	0.0505	1.05%
Ca RADIAL†	120032.4	23.65	mg/L	0.042	23.65	mg/L	0.042	0.18%
K RADIAL†	5634.2	4.897	mg/L	0.0569	4.897	mg/L	0.0569	1.16%
Mg RADIAL†	11671.2	24.15	mg/L	0.278	24.15	mg/L	0.278	1.15%
Na RADIAL†	144105.2	24.40	mg/L	0.076	24.40	mg/L	0.076	0.31%

Sequence No.: 4
Sample ID: SEQ-ICB1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/5/2020 10:17:42 AM
Data Type: Reprocessed on 6/8/2020 9:10:04 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-ICB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15702001.5	0.000	mg/L	0.0000				0.00%
Y RADIAL	277721.8	0.000	mg/L	0.0000				0.00%
As 188.979†	4.6	0.0034	mg/L	0.00706	0.0034	mg/L	0.00706	206.02%
Tl 190.801†	2.3	0.0012	mg/L	0.00209	0.0012	mg/L	0.00209	172.88%
Se 196.026†	-9.0	-0.0045	mg/L	0.00613	-0.0045	mg/L	0.00613	136.10%
Zn 206.200†	-188.9	-0.0064	mg/L	0.00020	-0.0064	mg/L	0.00020	3.16%
Sb 206.836†	3.8	0.0016	mg/L	0.00423	0.0016	mg/L	0.00423	270.31%
Pb 220.353†	-9.0	-0.0010	mg/L	0.00159	-0.0010	mg/L	0.00159	155.00%
Cd 226.502†	14.8	0.0001	mg/L	0.00012	0.0001	mg/L	0.00012	83.42%
Co 228.616†	18.5	0.0006	mg/L	0.00014	0.0006	mg/L	0.00014	23.34%
Ni 232.003†	-49.3	-0.0029	mg/L	0.00053	-0.0029	mg/L	0.00053	18.24%
Ba 233.527†	51.7	0.0008	mg/L	0.00021	0.0008	mg/L	0.00021	26.51%
Mn 257.610†	92.6	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	10.79%
Cr 267.716†	36.4	0.0003	mg/L	0.00056	0.0003	mg/L	0.00056	176.77%
Fe 273.955†	-6.0	-0.0003	mg/L	0.00115	-0.0003	mg/L	0.00115	338.85%
Mg 279.077†	-35.1	-0.0020	mg/L	0.00134	-0.0020	mg/L	0.00134	65.64%
V 292.402†	60.5	0.0003	mg/L	0.00030	0.0003	mg/L	0.00030	108.05%
Al 308.215†	-244.3	-0.0154	mg/L	0.00391	-0.0154	mg/L	0.00391	25.42%
Be 313.107†	348.4	0.00009	mg/L	0.000043	0.00009	mg/L	0.000043	49.11%
Cu 324.752†	-72.3	-0.0003	mg/L	0.00016	-0.0003	mg/L	0.00016	49.63%
Ag 338.289†	-59.1	-0.0006	mg/L	0.00057	-0.0006	mg/L	0.00057	101.46%
Na 330.237†	-98.8	-0.1715	mg/L	0.04819	-0.1715	mg/L	0.04819	28.09%
Ca 227.546†	-29.0	-0.1372	mg/L	0.08590	-0.1372	mg/L	0.08590	62.60%
Al RADIAL†	-33.7	-0.0245	mg/L	0.01390	-0.0245	mg/L	0.01390	56.77%
Fe RADIAL†	0.4	0.0010	mg/L	0.00900	0.0010	mg/L	0.00900	889.35%
Ca RADIAL†	-686.8	-0.1353	mg/L	0.00509	-0.1353	mg/L	0.00509	3.76%
K RADIAL†	36.8	0.0320	mg/L	0.04863	0.0320	mg/L	0.04863	152.12%
Mg RADIAL†	7.9	0.0164	mg/L	0.02886	0.0164	mg/L	0.02886	175.54%
Na RADIAL†	8.6	0.0015	mg/L	0.01759	0.0015	mg/L	0.01759	>999.9%

Sequence No.: 5
Sample ID: SEQ-CRL1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/5/2020 10:20:39 AM
Data Type: Reprocessed on 6/8/2020 9:10:04 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CRL1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	15471696.3	0.000	mg/L	0.0000				0.00%
Y RADIAL	268952.1	0.000	mg/L	0.0000				0.00%
As 188.979†	15.8	0.0119	mg/L	0.00341	0.0119	mg/L	0.00341	28.58%
Tl 190.801†	43.9	0.0233	mg/L	0.00569	0.0233	mg/L	0.00569	24.44%
Se 196.026†	43.6	0.0214	mg/L	0.00177	0.0214	mg/L	0.00177	8.27%
Zn 206.200†	1817.9	0.0615	mg/L	0.00055	0.0615	mg/L	0.00055	0.90%
Sb 206.836†	75.7	0.0314	mg/L	0.00618	0.0314	mg/L	0.00618	19.71%
Pb 220.353†	44.1	0.0051	mg/L	0.00085	0.0051	mg/L	0.00085	16.82%
Cd 226.502†	384.2	0.0036	mg/L	0.00019	0.0036	mg/L	0.00019	5.27%
Co 228.616†	144.0	0.0046	mg/L	0.00033	0.0046	mg/L	0.00033	7.08%
Ni 232.003†	26.9	0.0017	mg/L	0.00176	0.0017	mg/L	0.00176	106.40%
Ba 233.527†	1840.4	0.0287	mg/L	0.00027	0.0287	mg/L	0.00027	0.95%
Mn 257.610†	6196.4	0.0109	mg/L	0.00013	0.0109	mg/L	0.00013	1.20%
Cr 267.716†	656.4	0.0057	mg/L	0.00048	0.0057	mg/L	0.00048	8.44%
Fe 273.955†	9376.5	0.5281	mg/L	0.00418	0.5281	mg/L	0.00418	0.79%
Mg 279.077†	9135.6	0.5308	mg/L	0.00660	0.5308	mg/L	0.00660	1.24%
V 292.402†	2350.8	0.0109	mg/L	0.00021	0.0109	mg/L	0.00021	1.89%
Al 308.215†	7755.7	0.4883	mg/L	0.01033	0.4883	mg/L	0.01033	2.12%
Be 313.107†	2141.7	0.00053	mg/L	0.000057	0.00053	mg/L	0.000057	10.64%
Cu 324.752†	9583.9	0.0417	mg/L	0.00042	0.0417	mg/L	0.00042	1.02%
Ag 338.289†	1178.5	0.0112	mg/L	0.00055	0.0112	mg/L	0.00055	4.86%
Na 330.237†	397.2	0.6926	mg/L	0.07558	0.6926	mg/L	0.07558	10.91%
Ca 227.546†	233.3	1.109	mg/L	0.1597	1.109	mg/L	0.1597	14.41%
Al RADIAL†	745.2	0.5408	mg/L	0.01301	0.5408	mg/L	0.01301	2.41%
Fe RADIAL†	216.2	0.5140	mg/L	0.00490	0.5140	mg/L	0.00490	0.95%
Ca RADIAL†	6673.1	1.315	mg/L	0.0101	1.315	mg/L	0.0101	0.77%
K RADIAL†	613.3	0.5331	mg/L	0.02196	0.5331	mg/L	0.02196	4.12%
Mg RADIAL†	260.4	0.5387	mg/L	0.01772	0.5387	mg/L	0.01772	3.29%
Na RADIAL†	3099.0	0.5248	mg/L	0.01257	0.5248	mg/L	0.01257	2.40%

Sequence No.: 7
Sample ID: SEQ-IFA1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 6/5/2020 10:26:31 AM
Data Type: Reprocessed on 6/8/2020 9:10:06 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-IFA1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	14520040.1	0.000	mg/L	0.0000				0.00%
Y RADIAL	273355.5	0.000	mg/L	0.0000				0.00%
As 188.979†	-2.5	0.0000	mg/L	0.01283	0.0000	mg/L	0.01283	>999.9%
Tl 190.801†	-45.1	0.0008	mg/L	0.00604	0.0008	mg/L	0.00604	745.09%
Se 196.026†	251.1	0.0009	mg/L	0.01947	0.0009	mg/L	0.01947	>999.9%
Zn 206.200†	532.2	0.0009	mg/L	0.00093	0.0009	mg/L	0.00093	101.46%
Sb 206.836†	-27.4	-0.0002	mg/L	0.00156	-0.0002	mg/L	0.00156	734.96%
Pb 220.353†	-497.8	0.0009	mg/L	0.00378	0.0009	mg/L	0.00378	418.34%
Cd 226.502†	1741.7	-0.0006	mg/L	0.00015	-0.0006	mg/L	0.00015	24.39%
Co 228.616†	-63.0	-0.0001	mg/L	0.00073	-0.0001	mg/L	0.00073	610.62%
Ni 232.003†	-363.8	-0.0007	mg/L	0.00357	-0.0007	mg/L	0.00357	494.14%
Ba 233.527†	309.7	0.0048	mg/L	0.00024	0.0048	mg/L	0.00024	4.92%
Mn 257.610†	-20826.2	0.0007	mg/L	0.00020	0.0007	mg/L	0.00020	29.31%
Cr 267.716†	-744.5	0.0002	mg/L	0.00056	0.0002	mg/L	0.00056	292.50%
Fe 273.955†	3486867.9	196.4	mg/L	1.24	196.4	mg/L	1.24	0.63%
Mg 279.077†	9011285.4	523.6	mg/L	2.08	523.6	mg/L	2.08	0.40%
V 292.402†	1712.9	0.0003	mg/L	0.00053	0.0003	mg/L	0.00053	154.11%
Al 308.215†	8883851.0	559.3	mg/L	1.40	559.3	mg/L	1.40	0.25%
Be 313.107†	-759.4	-0.00019	mg/L	0.000047	-0.00019	mg/L	0.000047	24.92%
Cu 324.752†	-360.5	0.0003	mg/L	0.00032	0.0003	mg/L	0.00032	96.37%
Ag 338.289†	228.4	0.0005	mg/L	0.00059	0.0005	mg/L	0.00059	113.56%
Na 330.237†	-544.8	0.4109	mg/L	0.02494	0.4109	mg/L	0.02494	6.07%
Ca 227.546†	111781.4	530.9	mg/L	2.59	530.9	mg/L	2.59	0.49%
Al RADIAL†	679875.5	493.3	mg/L	5.33	493.3	mg/L	5.33	1.08%
Fe RADIAL†	79880.5	189.9	mg/L	0.32	189.9	mg/L	0.32	0.17%
Ca RADIAL†	2457246.2	484.1	mg/L	5.83	484.1	mg/L	5.83	1.20%
K RADIAL†	89.3	0.0776	mg/L	0.03191	0.0776	mg/L	0.03191	41.14%
Mg RADIAL†	237473.7	491.3	mg/L	1.04	491.3	mg/L	1.04	0.21%
Na RADIAL†	188.8	0.0320	mg/L	0.01129	0.0320	mg/L	0.01129	35.33%

Sequence No.: 8
Sample ID: SEQ-IFB1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 6/5/2020 10:28:59 AM
Data Type: Reprocessed on 6/8/2020 9:10:07 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-IFB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14269234.3	0.000	mg/L	0.0000				0.00%
Y RADIAL	263649.6	0.000	mg/L	0.0000				0.00%
As 188.979†	671.3	0.5070	mg/L	0.02781	0.5070	mg/L	0.02781	5.49%
Tl 190.801†	921.8	0.5127	mg/L	0.01098	0.5127	mg/L	0.01098	2.14%
Se 196.026†	1169.5	0.4588	mg/L	0.02799	0.4588	mg/L	0.02799	6.10%
Zn 206.200†	29564.4	0.9833	mg/L	0.02798	0.9833	mg/L	0.02798	2.85%
Sb 206.836†	1202.0	0.5088	mg/L	0.02154	0.5088	mg/L	0.02154	4.23%
Pb 220.353†	8596.7	1.036	mg/L	0.0258	1.036	mg/L	0.0258	2.49%
Cd 226.502†	103218.2	0.9596	mg/L	0.03233	0.9596	mg/L	0.03233	3.37%
Co 228.616†	15463.1	0.4975	mg/L	0.01416	0.4975	mg/L	0.01416	2.85%
Ni 232.003†	17797.9	1.078	mg/L	0.0282	1.078	mg/L	0.0282	2.62%
Ba 233.527†	34218.4	0.5327	mg/L	0.01518	0.5327	mg/L	0.01518	2.85%
Mn 257.610†	265353.6	0.5005	mg/L	0.01451	0.5005	mg/L	0.01451	2.90%
Cr 267.716†	56394.6	0.4958	mg/L	0.01635	0.4958	mg/L	0.01635	3.30%
Fe 273.955†	3452485.2	194.5	mg/L	6.51	194.5	mg/L	6.51	3.35%
Mg 279.077†	8905549.1	517.5	mg/L	18.06	517.5	mg/L	18.06	3.49%
V 292.402†	108322.0	0.4947	mg/L	0.01716	0.4947	mg/L	0.01716	3.47%
Al 308.215†	8878144.4	559.0	mg/L	19.56	559.0	mg/L	19.56	3.50%
Be 313.107†	1997384.4	0.49775	mg/L	0.016710	0.49775	mg/L	0.016710	3.36%
Cu 324.752†	130524.3	0.5698	mg/L	0.01991	0.5698	mg/L	0.01991	3.49%
Ag 338.289†	115082.3	1.096	mg/L	0.0337	1.096	mg/L	0.0337	3.08%
Na 330.237†	175.7	1.662	mg/L	0.0863	1.662	mg/L	0.0863	5.19%
Ca 227.546†	111201.5	528.2	mg/L	16.02	528.2	mg/L	16.02	3.03%
Al RADIAL†	685362.9	497.3	mg/L	34.14	497.3	mg/L	34.14	6.86%
Fe RADIAL†	80126.8	190.5	mg/L	13.90	190.5	mg/L	13.90	7.30%
Ca RADIAL†	2447623.0	482.2	mg/L	32.31	482.2	mg/L	32.31	6.70%
K RADIAL†	-33.9	-0.0294	mg/L	0.06998	-0.0294	mg/L	0.06998	237.70%
Mg RADIAL†	237316.0	491.0	mg/L	35.49	491.0	mg/L	35.49	7.23%
Na RADIAL†	247.4	0.0419	mg/L	0.01287	0.0419	mg/L	0.01287	30.73%

Sequence No.: 9
Sample ID: SEQ-CCV1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 6/5/2020 10:31:27 AM
Data Type: Reprocessed on 6/8/2020 9:10:08 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15804954.2	0.000	mg/L	0.0000				0.00%
Y RADIAL	282261.8	0.000	mg/L	0.0000				0.00%
As 188.979†	666.7	0.5017	mg/L	0.00512	0.5017	mg/L	0.00512	1.02%
Tl 190.801†	939.4	0.4979	mg/L	0.00228	0.4979	mg/L	0.00228	0.46%
Se 196.026†	994.4	0.4929	mg/L	0.00536	0.4929	mg/L	0.00536	1.09%
Zn 206.200†	74686.0	2.527	mg/L	0.0353	2.527	mg/L	0.0353	1.40%
Sb 206.836†	622.5	0.2580	mg/L	0.00452	0.2580	mg/L	0.00452	1.75%
Pb 220.353†	4384.4	0.4999	mg/L	0.00274	0.4999	mg/L	0.00274	0.55%
Cd 226.502†	26319.0	0.2486	mg/L	0.00310	0.2486	mg/L	0.00310	1.25%
Co 228.616†	78691.1	2.522	mg/L	0.0339	2.522	mg/L	0.0339	1.34%
Ni 232.003†	42070.5	2.500	mg/L	0.0325	2.500	mg/L	0.0325	1.30%
Ba 233.527†	656637.1	10.22	mg/L	0.129	10.22	mg/L	0.129	1.26%
Mn 257.610†	1458012.9	2.547	mg/L	0.0322	2.547	mg/L	0.0322	1.27%
Cr 267.716†	116852.2	1.014	mg/L	0.0108	1.014	mg/L	0.0108	1.06%
Fe 273.955†	89846.8	5.061	mg/L	0.0661	5.061	mg/L	0.0661	1.31%
Mg 279.077†	432694.1	25.14	mg/L	0.330	25.14	mg/L	0.330	1.31%
V 292.402†	545348.4	2.529	mg/L	0.0268	2.529	mg/L	0.0268	1.06%
Al 308.215†	155043.2	9.761	mg/L	0.1242	9.761	mg/L	0.1242	1.27%
Be 313.107†	1014379.2	0.25278	mg/L	0.002970	0.25278	mg/L	0.002970	1.18%
Cu 324.752†	287518.7	1.251	mg/L	0.0144	1.251	mg/L	0.0144	1.15%
Ag 338.289†	132030.5	1.259	mg/L	0.0141	1.259	mg/L	0.0141	1.12%
Na 330.237†	13621.4	23.68	mg/L	0.355	23.68	mg/L	0.355	1.50%
Ca 227.546†	5243.5	24.86	mg/L	0.134	24.86	mg/L	0.134	0.54%
Al RADIAL†	13943.0	10.12	mg/L	0.107	10.12	mg/L	0.107	1.06%
Fe RADIAL†	2121.7	5.045	mg/L	0.0418	5.045	mg/L	0.0418	0.83%
Ca RADIAL†	126784.1	24.98	mg/L	0.163	24.98	mg/L	0.163	0.65%
K RADIAL†	5825.2	5.063	mg/L	0.0186	5.063	mg/L	0.0186	0.37%
Mg RADIAL†	12074.1	24.98	mg/L	0.216	24.98	mg/L	0.216	0.87%
Na RADIAL†	148711.8	25.18	mg/L	0.158	25.18	mg/L	0.158	0.63%

Sequence No.: 10
Sample ID: SEQ-CCB1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/5/2020 10:34:25 AM
Data Type: Reprocessed on 6/8/2020 9:10:09 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	15550374.4	0.000	mg/L	0.0000				0.00%
Y RADIAL	282716.4	0.000	mg/L	0.0000				0.00%
As 188.979†	0.2	0.0002	mg/L	0.00619	0.0002	mg/L	0.00619	>999.9%
Tl 190.801†	6.4	0.0034	mg/L	0.00170	0.0034	mg/L	0.00170	50.21%
Se 196.026†	-6.5	-0.0032	mg/L	0.00388	-0.0032	mg/L	0.00388	120.08%
Zn 206.200†	-182.5	-0.0062	mg/L	0.00024	-0.0062	mg/L	0.00024	3.95%
Sb 206.836†	-2.7	-0.0011	mg/L	0.00588	-0.0011	mg/L	0.00588	523.35%
Pb 220.353†	-10.4	-0.0012	mg/L	0.00194	-0.0012	mg/L	0.00194	163.93%
Cd 226.502†	-8.7	-0.0001	mg/L	0.00021	-0.0001	mg/L	0.00021	259.26%
Co 228.616†	19.0	0.0006	mg/L	0.00030	0.0006	mg/L	0.00030	48.89%
Ni 232.003†	-64.4	-0.0038	mg/L	0.00084	-0.0038	mg/L	0.00084	21.87%
Ba 233.527†	16.8	0.0003	mg/L	0.00006	0.0003	mg/L	0.00006	22.67%
Mn 257.610†	58.0	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	8.05%
Cr 267.716†	35.8	0.0003	mg/L	0.00037	0.0003	mg/L	0.00037	119.37%
Fe 273.955†	40.5	0.0023	mg/L	0.00076	0.0023	mg/L	0.00076	33.10%
Mg 279.077†	171.2	0.0099	mg/L	0.01157	0.0099	mg/L	0.01157	116.34%
V 292.402†	80.5	0.0004	mg/L	0.00066	0.0004	mg/L	0.00066	176.02%
Al 308.215†	48.5	0.0031	mg/L	0.01001	0.0031	mg/L	0.01001	327.74%
Be 313.107†	165.1	0.00004	mg/L	0.000095	0.00004	mg/L	0.000095	231.28%
Cu 324.752†	556.2	0.0024	mg/L	0.00012	0.0024	mg/L	0.00012	5.04%
Ag 338.289†	44.7	0.0004	mg/L	0.00080	0.0004	mg/L	0.00080	186.63%
Na 330.237†	-67.6	-0.1174	mg/L	0.14869	-0.1174	mg/L	0.14869	126.64%
Ca 227.546†	-15.8	-0.0749	mg/L	0.04386	-0.0749	mg/L	0.04386	58.54%
Al RADIAL†	-21.4	-0.0155	mg/L	0.01402	-0.0155	mg/L	0.01402	90.40%
Fe RADIAL†	0.3	0.0007	mg/L	0.01202	0.0007	mg/L	0.01202	>999.9%
Ca RADIAL†	-669.6	-0.1319	mg/L	0.00531	-0.1319	mg/L	0.00531	4.03%
K RADIAL†	102.9	0.0895	mg/L	0.05157	0.0895	mg/L	0.05157	57.65%
Mg RADIAL†	14.4	0.0297	mg/L	0.01019	0.0297	mg/L	0.01019	34.27%
Na RADIAL†	88.3	0.0149	mg/L	0.02124	0.0149	mg/L	0.02124	142.12%

Sequence No.: 105
Sample ID: SEQ-CCV9
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 6/5/2020 2:51:17 PM
Data Type: Reprocessed on 6/8/2020 9:11:27 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV9

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14864558.8	0.000	mg/L	0.0000				0.00%
Y RADIAL	271336.7	0.000	mg/L	0.0000				0.00%
As 188.979†	706.5	0.5317	mg/L	0.01686	0.5317	mg/L	0.01686	3.17%
Tl 190.801†	992.3	0.5260	mg/L	0.01629	0.5260	mg/L	0.01629	3.10%
Se 196.026†	1071.1	0.5310	mg/L	0.02643	0.5310	mg/L	0.02643	4.98%
Zn 206.200†	79469.1	2.689	mg/L	0.0565	2.689	mg/L	0.0565	2.10%
Sb 206.836†	623.8	0.2585	mg/L	0.00843	0.2585	mg/L	0.00843	3.26%
Pb 220.353†	4632.6	0.5282	mg/L	0.01627	0.5282	mg/L	0.01627	3.08%
Cd 226.502†	27958.0	0.2641	mg/L	0.00626	0.2641	mg/L	0.00626	2.37%
Co 228.616†	83537.0	2.677	mg/L	0.0670	2.677	mg/L	0.0670	2.50%
Ni 232.003†	44990.6	2.674	mg/L	0.0583	2.674	mg/L	0.0583	2.18%
Ba 233.527†	692341.4	10.78	mg/L	0.286	10.78	mg/L	0.286	2.65%
Mn 257.610†	1533259.6	2.678	mg/L	0.0713	2.678	mg/L	0.0713	2.66%
Cr 267.716†	126825.7	1.100	mg/L	0.0278	1.100	mg/L	0.0278	2.53%
Fe 273.955†	97085.2	5.468	mg/L	0.1317	5.468	mg/L	0.1317	2.41%
Mg 279.077†	456084.7	26.50	mg/L	0.649	26.50	mg/L	0.649	2.45%
V 292.402†	572864.1	2.656	mg/L	0.0715	2.656	mg/L	0.0715	2.69%
Al 308.215†	169116.5	10.65	mg/L	0.296	10.65	mg/L	0.296	2.78%
Be 313.107†	1068961.4	0.26638	mg/L	0.006781	0.26638	mg/L	0.006781	2.55%
Cu 324.752†	309609.0	1.347	mg/L	0.0378	1.347	mg/L	0.0378	2.81%
Ag 338.289†	142536.6	1.360	mg/L	0.0349	1.360	mg/L	0.0349	2.57%
Na 330.237†	14821.1	25.76	mg/L	0.580	25.76	mg/L	0.580	2.25%
Ca 227.546†	5483.9	26.00	mg/L	0.848	26.00	mg/L	0.848	3.26%
Al RADIAL†	14797.2	10.74	mg/L	0.084	10.74	mg/L	0.084	0.79%
Fe RADIAL†	2241.8	5.331	mg/L	0.0324	5.331	mg/L	0.0324	0.61%
Ca RADIAL†	132333.4	26.07	mg/L	0.176	26.07	mg/L	0.176	0.67%
K RADIAL†	5999.4	5.214	mg/L	0.0559	5.214	mg/L	0.0559	1.07%
Mg RADIAL†	12709.8	26.30	mg/L	0.241	26.30	mg/L	0.241	0.92%
Na RADIAL†	153421.5	25.98	mg/L	0.160	25.98	mg/L	0.160	0.62%

Sequence No.: 106
Sample ID: SEQ-CCB9
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/5/2020 2:54:23 PM
Data Type: Reprocessed on 6/8/2020 9:11:28 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCB9

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	15600892.7	0.000	mg/L	0.0000				0.00%
Y RADIAL	261894.9	0.000	mg/L	0.0000				0.00%
As 188.979†	6.0	0.0045	mg/L	0.00633	0.0045	mg/L	0.00633	140.52%
Tl 190.801†	5.2	0.0027	mg/L	0.00349	0.0027	mg/L	0.00349	127.61%
Se 196.026†	3.9	0.0019	mg/L	0.00947	0.0019	mg/L	0.00947	487.56%
Zn 206.200†	-143.4	-0.0049	mg/L	0.00051	-0.0049	mg/L	0.00051	10.45%
Sb 206.836†	0.1	0.0001	mg/L	0.00254	0.0001	mg/L	0.00254	>999.9%
Pb 220.353†	-26.6	-0.0030	mg/L	0.00157	-0.0030	mg/L	0.00157	51.99%
Cd 226.502†	-17.0	-0.0002	mg/L	0.00023	-0.0002	mg/L	0.00023	139.19%
Co 228.616†	27.4	0.0009	mg/L	0.00059	0.0009	mg/L	0.00059	67.37%
Ni 232.003†	9.3	0.0006	mg/L	0.00121	0.0006	mg/L	0.00121	218.67%
Ba 233.527†	31.3	0.0005	mg/L	0.00017	0.0005	mg/L	0.00017	34.17%
Mn 257.610†	56.8	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	30.81%
Cr 267.716†	15.3	0.0001	mg/L	0.00072	0.0001	mg/L	0.00072	542.71%
Fe 273.955†	-12.6	-0.0007	mg/L	0.00100	-0.0007	mg/L	0.00100	140.80%
Mg 279.077†	-133.1	-0.0077	mg/L	0.00199	-0.0077	mg/L	0.00199	25.68%
V 292.402†	-25.2	-0.0001	mg/L	0.00047	-0.0001	mg/L	0.00047	401.33%
Al 308.215†	75.3	0.0047	mg/L	0.01266	0.0047	mg/L	0.01266	266.75%
Be 313.107†	940.3	0.00023	mg/L	0.000017	0.00023	mg/L	0.000017	7.40%
Cu 324.752†	511.2	0.0022	mg/L	0.00061	0.0022	mg/L	0.00061	27.53%
Ag 338.289†	60.6	0.0006	mg/L	0.00134	0.0006	mg/L	0.00134	230.43%
Na 330.237†	-119.3	-0.2071	mg/L	0.06267	-0.2071	mg/L	0.06267	30.26%
Ca 227.546†	-11.8	-0.0558	mg/L	0.11054	-0.0558	mg/L	0.11054	198.16%
Al RADIAL†	23.6	0.0171	mg/L	0.01390	0.0171	mg/L	0.01390	81.25%
Fe RADIAL†	5.7	0.0135	mg/L	0.00938	0.0135	mg/L	0.00938	69.24%
Ca RADIAL†	-672.2	-0.1324	mg/L	0.00408	-0.1324	mg/L	0.00408	3.08%
K RADIAL†	9.5	0.0083	mg/L	0.04017	0.0083	mg/L	0.04017	485.23%
Mg RADIAL†	-10.0	-0.0206	mg/L	0.01909	-0.0206	mg/L	0.01909	92.47%
Na RADIAL†	-170.3	-0.0288	mg/L	0.00762	-0.0288	mg/L	0.00762	26.43%

Sequence No.: 108
Sample ID: BF00340-BLK1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 222
Date Collected: 6/5/2020 3:00:15 PM
Data Type: Reprocessed on 6/8/2020 9:11:30 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: BF00340-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	16331326.9	0.000	mg/L	0.0000				0.00%
Y RADIAL	285476.6	0.000	mg/L	0.0000				0.00%
As 188.979†	-5.0	-0.0037	mg/L	0.00643	-0.0037	mg/L	0.00643	172.19%
Tl 190.801†	-5.2	-0.0027	mg/L	0.00374	-0.0027	mg/L	0.00374	136.55%
Se 196.026†	-4.0	-0.0020	mg/L	0.00520	-0.0020	mg/L	0.00520	260.84%
Zn 206.200†	-176.2	-0.0060	mg/L	0.00036	-0.0060	mg/L	0.00036	5.97%
Sb 206.836†	6.4	0.0026	mg/L	0.00280	0.0026	mg/L	0.00280	106.07%
Pb 220.353†	-40.7	-0.0046	mg/L	0.00194	-0.0046	mg/L	0.00194	41.79%
Cd 226.502†	-20.4	-0.0002	mg/L	0.00017	-0.0002	mg/L	0.00017	86.45%
Co 228.616†	8.5	0.0003	mg/L	0.00027	0.0003	mg/L	0.00027	100.98%
Ni 232.003†	-82.0	-0.0049	mg/L	0.00110	-0.0049	mg/L	0.00110	22.54%
Ba 233.527†	25.2	0.0004	mg/L	0.00036	0.0004	mg/L	0.00036	91.78%
Mn 257.610†	124.5	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	22.98%
Cr 267.716†	47.7	0.0004	mg/L	0.00022	0.0004	mg/L	0.00022	52.84%
Fe 273.955†	127.1	0.0072	mg/L	0.00111	0.0072	mg/L	0.00111	15.53%
Mg 279.077†	10.4	0.0006	mg/L	0.00199	0.0006	mg/L	0.00199	329.08%
V 292.402†	-36.0	-0.0002	mg/L	0.00030	-0.0002	mg/L	0.00030	178.29%
Al 308.215†	-959.4	-0.0604	mg/L	0.00356	-0.0604	mg/L	0.00356	5.90%
Be 313.107†	1416.2	0.00035	mg/L	0.000050	0.00035	mg/L	0.000050	14.24%
Cu 324.752†	-350.9	-0.0015	mg/L	0.00021	-0.0015	mg/L	0.00021	13.65%
Ag 338.289†	-102.3	-0.0010	mg/L	0.00070	-0.0010	mg/L	0.00070	72.29%
Na 330.237†	189.8	0.3292	mg/L	0.06479	0.3292	mg/L	0.06479	19.68%
Ca 227.546†	-47.7	-0.2255	mg/L	0.04711	-0.2255	mg/L	0.04711	20.89%
Al RADIAL†	-16.3	-0.0118	mg/L	0.01720	-0.0118	mg/L	0.01720	145.40%
Fe RADIAL†	6.7	0.0160	mg/L	0.00713	0.0160	mg/L	0.00713	44.64%
Ca RADIAL†	-625.6	-0.1233	mg/L	0.00373	-0.1233	mg/L	0.00373	3.02%
K RADIAL†	117.7	0.1023	mg/L	0.05817	0.1023	mg/L	0.05817	56.85%
Mg RADIAL†	3.8	0.0078	mg/L	0.01422	0.0078	mg/L	0.01422	181.90%
Na RADIAL†	-135.5	-0.0229	mg/L	0.01176	-0.0229	mg/L	0.01176	51.27%

Sequence No.: 109
Sample ID: BF00340-BS1
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 223
Date Collected: 6/5/2020 3:03:10 PM
Data Type: Reprocessed on 6/8/2020 9:11:31 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: BF00340-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	16287992.8	0.000	mg/L	0.0000				0.00%
Y RADIAL	283275.0	0.000	mg/L	0.0000				0.00%
As 188.979†	2335.8	1.758	mg/L	0.0350	1.758	mg/L	0.0350	1.99%
Tl 190.801†	3513.1	1.860	mg/L	0.0324	1.860	mg/L	0.0324	1.74%
Se 196.026†	3095.2	1.544	mg/L	0.0216	1.544	mg/L	0.0216	1.40%
Zn 206.200†	14051.8	0.4754	mg/L	0.00881	0.4754	mg/L	0.00881	1.85%
Sb 206.836†	568.1	0.2352	mg/L	0.00572	0.2352	mg/L	0.00572	2.43%
Pb 220.353†	4014.1	0.4567	mg/L	0.01037	0.4567	mg/L	0.01037	2.27%
Cd 226.502†	4869.7	0.0460	mg/L	0.00078	0.0460	mg/L	0.00078	1.70%
Co 228.616†	15541.6	0.4981	mg/L	0.00905	0.4981	mg/L	0.00905	1.82%
Ni 232.003†	8199.2	0.4873	mg/L	0.00797	0.4873	mg/L	0.00797	1.64%
Ba 233.527†	124908.0	1.945	mg/L	0.0210	1.945	mg/L	0.0210	1.08%
Mn 257.610†	276700.4	0.4834	mg/L	0.00571	0.4834	mg/L	0.00571	1.18%
Cr 267.716†	23264.8	0.2018	mg/L	0.00410	0.2018	mg/L	0.00410	2.03%
Fe 273.955†	17656.0	0.9945	mg/L	0.01650	0.9945	mg/L	0.01650	1.66%
Mg 279.077†	16714.1	0.9711	mg/L	0.01491	0.9711	mg/L	0.01491	1.54%
V 292.402†	101724.9	0.4717	mg/L	0.00565	0.4717	mg/L	0.00565	1.20%
Al 308.215†	25858.8	1.628	mg/L	0.0290	1.628	mg/L	0.0290	1.78%
Be 313.107†	189262.9	0.04716	mg/L	0.000531	0.04716	mg/L	0.000531	1.13%
Cu 324.752†	55472.3	0.2414	mg/L	0.00424	0.2414	mg/L	0.00424	1.76%
Ag 338.289†	4905.8	0.0468	mg/L	0.00083	0.0468	mg/L	0.00083	1.78%
Na 330.237†	995.0	1.731	mg/L	0.0150	1.731	mg/L	0.0150	0.87%
Ca 227.546†	162.3	0.7778	mg/L	0.04803	0.7778	mg/L	0.04803	6.18%
Al RADIAL†	2628.0	1.907	mg/L	0.0116	1.907	mg/L	0.0116	0.61%
Fe RADIAL†	412.7	0.9814	mg/L	0.00783	0.9814	mg/L	0.00783	0.80%
Ca RADIAL†	4474.1	0.8814	mg/L	0.00678	0.8814	mg/L	0.00678	0.77%
K RADIAL†	1096.6	0.9531	mg/L	0.03007	0.9531	mg/L	0.03007	3.15%
Mg RADIAL†	473.1	0.9788	mg/L	0.01807	0.9788	mg/L	0.01807	1.85%
Na RADIAL†	5389.4	0.9126	mg/L	0.00936	0.9126	mg/L	0.00936	1.03%

Sequence No.: 114
Sample ID: 20F0067-01
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 228
Date Collected: 6/5/2020 3:17:48 PM
Data Type: Reprocessed on 6/8/2020 9:11:35 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20F0067-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	14886157.8	0.000	mg/L	0.0000				0.00%
Y RADIAL	271269.6	0.000	mg/L	0.0000				0.00%
As 188.979†	10.2	0.0077	mg/L	0.00226	0.0077	mg/L	0.00226	29.36%
Tl 190.801†	-36.7	-0.0192	mg/L	0.00466	-0.0192	mg/L	0.00466	24.23%
Se 196.026†	173.5	0.0857	mg/L	0.00637	0.0857	mg/L	0.00637	7.44%
Zn 206.200†	153.9	0.0051	mg/L	0.00041	0.0051	mg/L	0.00041	8.17%
Sb 206.836†	-4.7	-0.0019	mg/L	0.00424	-0.0019	mg/L	0.00424	227.44%
Pb 220.353†	-68.9	-0.0053	mg/L	0.00128	-0.0053	mg/L	0.00128	24.28%
Cd 226.502†	4.5	-0.0001	mg/L	0.00014	-0.0001	mg/L	0.00014	164.06%
Co 228.616†	2935.8	0.0941	mg/L	0.00037	0.0941	mg/L	0.00037	0.39%
Ni 232.003†	5170.4	0.3074	mg/L	0.00078	0.3074	mg/L	0.00078	0.25%
Ba 233.527†	4645.4	0.0723	mg/L	0.00018	0.0723	mg/L	0.00018	0.25%
Mn 257.610†	1594093.9	2.784	mg/L	0.0268	2.784	mg/L	0.0268	0.96%
Cr 267.716†	266.7	0.0024	mg/L	0.00021	0.0024	mg/L	0.00021	8.71%
Fe 273.955†	25545.9	1.439	mg/L	0.0133	1.439	mg/L	0.0133	0.93%
Mg 279.077†	1070726.5	62.22	mg/L	0.669	62.22	mg/L	0.669	1.07%
V 292.402†	-149.2	-0.0007	mg/L	0.00043	-0.0007	mg/L	0.00043	57.04%
Al 308.215†	-156.2	-0.0165	mg/L	0.00690	-0.0165	mg/L	0.00690	41.71%
Be 313.107†	825.1	0.00021	mg/L	0.000040	0.00021	mg/L	0.000040	19.62%
Cu 324.752†	971.9	0.0042	mg/L	0.00032	0.0042	mg/L	0.00032	7.62%
Ag 338.289†	65.7	-0.0015	mg/L	0.00088	-0.0015	mg/L	0.00088	59.73%
Na 330.237†	144416.7	250.7	mg/L	2.20	250.7	mg/L	2.20	0.88%
Ca 227.546†	41918.8	198.4	mg/L	1.62	198.4	mg/L	1.62	0.82%
Al RADIAL†	67.5	0.0435	mg/L	0.01993	0.0435	mg/L	0.01993	45.79%
Fe RADIAL†	590.5	1.404	mg/L	0.0106	1.404	mg/L	0.0106	0.76%
Ca RADIAL†	961139.8	189.3	mg/L	1.54	189.3	mg/L	1.54	0.82%
K RADIAL†	5508.9	4.788	mg/L	0.0186	4.788	mg/L	0.0186	0.39%
Mg RADIAL†	27989.8	57.91	mg/L	0.101	57.91	mg/L	0.101	0.17%
Na RADIAL†	1366282.6	231.4	mg/L	1.78	231.4	mg/L	1.78	0.77%

Sequence No.: 117
Sample ID: SEQ-CCVA
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 6/5/2020 3:26:43 PM
Data Type: Reprocessed on 6/8/2020 9:11:37 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCVA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15599707.9	0.000	mg/L	0.0000				0.00%
Y RADIAL	277096.5	0.000	mg/L	0.0000				0.00%
As 188.979†	710.0	0.5344	mg/L	0.01079	0.5344	mg/L	0.01079	2.02%
Tl 190.801†	975.1	0.5168	mg/L	0.00701	0.5168	mg/L	0.00701	1.36%
Se 196.026†	1046.1	0.5186	mg/L	0.01068	0.5186	mg/L	0.01068	2.06%
Zn 206.200†	77704.5	2.629	mg/L	0.0235	2.629	mg/L	0.0235	0.90%
Sb 206.836†	620.9	0.2573	mg/L	0.00703	0.2573	mg/L	0.00703	2.73%
Pb 220.353†	4549.1	0.5187	mg/L	0.00515	0.5187	mg/L	0.00515	0.99%
Cd 226.502†	27458.5	0.2594	mg/L	0.00285	0.2594	mg/L	0.00285	1.10%
Co 228.616†	82013.5	2.628	mg/L	0.0210	2.628	mg/L	0.0210	0.80%
Ni 232.003†	44322.4	2.634	mg/L	0.0231	2.634	mg/L	0.0231	0.88%
Ba 233.527†	675489.7	10.52	mg/L	0.102	10.52	mg/L	0.102	0.97%
Mn 257.610†	1494262.5	2.610	mg/L	0.0258	2.610	mg/L	0.0258	0.99%
Cr 267.716†	124324.6	1.078	mg/L	0.0110	1.078	mg/L	0.0110	1.02%
Fe 273.955†	95001.7	5.351	mg/L	0.0493	5.351	mg/L	0.0493	0.92%
Mg 279.077†	444551.3	25.83	mg/L	0.288	25.83	mg/L	0.288	1.12%
V 292.402†	559305.6	2.593	mg/L	0.0283	2.593	mg/L	0.0283	1.09%
Al 308.215†	164618.6	10.36	mg/L	0.107	10.36	mg/L	0.107	1.04%
Be 313.107†	1040980.4	0.25941	mg/L	0.002715	0.25941	mg/L	0.002715	1.05%
Cu 324.752†	304082.6	1.323	mg/L	0.0120	1.323	mg/L	0.0120	0.90%
Ag 338.289†	140034.0	1.336	mg/L	0.0138	1.336	mg/L	0.0138	1.03%
Na 330.237†	14480.4	25.17	mg/L	0.170	25.17	mg/L	0.170	0.68%
Ca 227.546†	5336.3	25.31	mg/L	0.085	25.31	mg/L	0.085	0.34%
Al RADIAL†	14433.7	10.47	mg/L	0.017	10.47	mg/L	0.017	0.16%
Fe RADIAL†	2195.1	5.220	mg/L	0.0162	5.220	mg/L	0.0162	0.31%
Ca RADIAL†	130073.1	25.63	mg/L	0.049	25.63	mg/L	0.049	0.19%
K RADIAL†	5928.6	5.153	mg/L	0.0079	5.153	mg/L	0.0079	0.15%
Mg RADIAL†	12443.1	25.74	mg/L	0.050	25.74	mg/L	0.050	0.20%
Na RADIAL†	154047.6	26.09	mg/L	0.080	26.09	mg/L	0.080	0.31%

Sequence No.: 118
Sample ID: SEQ-CCBA
Analyst: KML
Logged In Analyst (Original) : rqb
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/5/2020 3:29:49 PM
Data Type: Reprocessed on 6/8/2020 9:11:38 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCBA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15527228.1	0.000	mg/L	0.0000				0.00%
Y RADIAL	273327.0	0.000	mg/L	0.0000				0.00%
As 188.979†	3.1	0.0023	mg/L	0.00577	0.0023	mg/L	0.00577	246.32%
Tl 190.801†	5.7	0.0030	mg/L	0.00430	0.0030	mg/L	0.00430	142.83%
Se 196.026†	-3.2	-0.0016	mg/L	0.00224	-0.0016	mg/L	0.00224	138.42%
Zn 206.200†	-14.4	-0.0005	mg/L	0.00030	-0.0005	mg/L	0.00030	62.08%
Sb 206.836†	2.3	0.0010	mg/L	0.00265	0.0010	mg/L	0.00265	276.15%
Pb 220.353†	-20.6	-0.0023	mg/L	0.00117	-0.0023	mg/L	0.00117	50.03%
Cd 226.502†	-10.4	-0.0001	mg/L	0.00015	-0.0001	mg/L	0.00015	151.04%
Co 228.616†	18.7	0.0006	mg/L	0.00035	0.0006	mg/L	0.00035	57.94%
Ni 232.003†	30.8	0.0018	mg/L	0.00170	0.0018	mg/L	0.00170	92.81%
Ba 233.527†	17.1	0.0003	mg/L	0.00011	0.0003	mg/L	0.00011	42.29%
Mn 257.610†	77.0	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	20.45%
Cr 267.716†	-40.3	-0.0003	mg/L	0.00018	-0.0003	mg/L	0.00018	51.48%
Fe 273.955†	-4.3	-0.0002	mg/L	0.00112	-0.0002	mg/L	0.00112	460.98%
Mg 279.077†	-25.8	-0.0015	mg/L	0.00281	-0.0015	mg/L	0.00281	187.74%
V 292.402†	-42.4	-0.0002	mg/L	0.00023	-0.0002	mg/L	0.00023	118.81%
Al 308.215†	-296.8	-0.0187	mg/L	0.00623	-0.0187	mg/L	0.00623	33.31%
Be 313.107†	1126.5	0.00028	mg/L	0.000034	0.00028	mg/L	0.000034	11.94%
Cu 324.752†	-86.3	-0.0004	mg/L	0.00014	-0.0004	mg/L	0.00014	38.17%
Ag 338.289†	-41.9	-0.0004	mg/L	0.00026	-0.0004	mg/L	0.00026	64.58%
Na 330.237†	-115.0	-0.1994	mg/L	0.10840	-0.1994	mg/L	0.10840	54.36%
Ca 227.546†	11.7	0.0552	mg/L	0.05946	0.0552	mg/L	0.05946	107.65%
Al RADIAL†	5.2	0.0038	mg/L	0.01315	0.0038	mg/L	0.01315	349.32%
Fe RADIAL†	0.7	0.0017	mg/L	0.00795	0.0017	mg/L	0.00795	469.15%
Ca RADIAL†	-49.7	-0.0098	mg/L	0.00202	-0.0098	mg/L	0.00202	20.63%
K RADIAL†	29.4	0.0256	mg/L	0.11321	0.0256	mg/L	0.11321	442.78%
Mg RADIAL†	4.3	0.0089	mg/L	0.03115	0.0089	mg/L	0.03115	348.99%
Na RADIAL†	-67.0	-0.0113	mg/L	0.01166	-0.0113	mg/L	0.01166	102.75%

York Analytical Laboratories, Inc.
SDG: 20F0067
CLASS: HG
METHOD: EPA 7473

DATA PACKAGE COVER PAGE

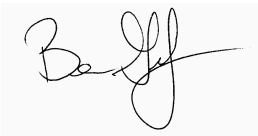
EPA 7473

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Client Sample Id:	Lab Sample Id:
KC-MW-01 0620	20F0067-01
KC-MW-02 0620	20F0067-02
KC-MW-05 0620	20F0067-03
KC-MW-DUP 0620	20F0067-06

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:  Name: Benjamin Gulizia

Date: 6/12/2020 Title: Laboratory Director

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

KC-MW-01 0620

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Matrix: Water Laboratory ID: 20F0067-01 File ID: QBHGDMA80-01 060520A-058

Sampled: 06/01/20 12:39 Prepared: 06/05/20 11:11 Analyzed: 06/05/20 21:09

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BF00337 Sequence: Y0F0810 Calibration: 06/05/20 2 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

KC-MW-02 0620

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Matrix: Water Laboratory ID: 20F0067-02 File ID: QBHGDMA80-01 060520A-059

Sampled: 06/01/20 11:20 Prepared: 06/05/20 11:11 Analyzed: 06/05/20 21:20

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BF00337 Sequence: Y0F0810 Calibration: 06/05/20 2 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

KC-MW-05 0620

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Matrix: Water Laboratory ID: 20F0067-03 File ID: QBHGDMA80-01 060520A-060

Sampled: 06/01/20 10:30 Prepared: 06/05/20 11:11 Analyzed: 06/05/20 21:30

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BF00337 Sequence: Y0F0810 Calibration: 06/05/20 2 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

KC-MW-DUP 0620

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Matrix: Water Laboratory ID: 20F0067-06 File ID: QBHGDMA80-01 060520A-061

Sampled: 06/01/20 00:00 Prepared: 06/05/20 11:11 Analyzed: 06/05/20 21:41

Solids: 0.00 Preparation: EPA 7473 water Initial/Final: 0.25 mL / 0.25 mL

Batch: BF00337 Sequence: Y0F0810 Calibration: 06/05/20 2 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.00020	1	U	EPA 7473

FORM I

METHOD BLANK DATA SHEET

EPA 7473

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00337-BLK1	File ID:	QBHGDMA80-01 060520A-015
Prepared:	06/05/20 11:11	Preparation:	EPA 7473 water	Initial/Final:	0.25 mL / 0.25 mL
Analyzed:	06/05/20 11:14	Instrument:	DMA 80-01		
Batch:	BF00337	Sequence:	Y0F0810	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	Q
7439-97-6	Mercury	0.00020	U

STANDARD REFERENCE MATERIAL RECOVERY

EPA 7473

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Matrix: Water
Batch: BF00337
Laboratory ID: BF00337-SRM1
Preparation: EPA 7473 water
Initial/Final: 0.1 mL / 0.1 mL

ANALYTE	TRUE (mg/L)	FOUND (mg/L)	SRM % REC.	QC LIMITS REC.
Mercury	0.0100	0.0105	105	70 - 130

* Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 7473

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20F0067

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.20 Kingston CVS

Matrix: Water **Instrument:** DMA 80-01

Analyte	LOD	LOQ	Units
Mercury	0.00020	0.00020	mg/L

FORM IV **PREPARATION BATCH SUMMARY**

EPA 7473

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Batch: BF00337 Batch Matrix: Water Preparation: EPA 7473 water

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 0620	20F0067-01	HGDMA80-01 060520A-	06/05/20 11:11	
KC-MW-02 0620	20F0067-02	HGDMA80-01 060520A-	06/05/20 11:11	
KC-MW-05 0620	20F0067-03	HGDMA80-01 060520A-	06/05/20 11:11	
KC-MW-DUP 0620	20F0067-06	HGDMA80-01 060520A-	06/05/20 11:11	
Blank	BF00337-BLK1	HGDMA80-01 060520A-	06/05/20 11:11	
Reference	BF00337-SRM1	HGDMA80-01 060520A-	06/05/20 11:11	

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7473

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Sequence:	Y0F0810	Instrument:	DMA 80-01
		Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Low Cal Check	Y0F0810-LCV1	QBHGDMA80-01 060520A-004	06/05/20 07:31
High Cal Check	Y0F0810-HCV1	QBHGDMA80-01 060520A-005	06/05/20 09:19
Calibration Check	Y0F0810-CCV1	QBHGDMA80-01 060520A-008	06/05/20 09:41
Calibration Blank	Y0F0810-CCB1	QBHGDMA80-01 060520A-009	06/05/20 09:51
Blank	BF00337-BLK1	QBHGDMA80-01 060520A-015	06/05/20 11:14
Reference	BF00337-SRM1	QBHGDMA80-01 060520A-016	06/05/20 11:22
Calibration Check	Y0F0810-CCV2	QBHGDMA80-01 060520A-020	06/05/20 12:53
Calibration Blank	Y0F0810-CCB2	QBHGDMA80-01 060520A-021	06/05/20 13:01
Calibration Check	Y0F0810-CCV3	QBHGDMA80-01 060520A-032	06/05/20 15:06
Calibration Blank	Y0F0810-CCB3	QBHGDMA80-01 060520A-033	06/05/20 15:14
Calibration Check	Y0F0810-CCV5	QBHGDMA80-01 060520A-053	06/05/20 20:03
Calibration Blank	Y0F0810-CCB5	QBHGDMA80-01 060520A-054	06/05/20 20:16
KC-MW-01 0620	20F0067-01	QBHGDMA80-01 060520A-058	06/05/20 21:09
KC-MW-02 0620	20F0067-02	QBHGDMA80-01 060520A-059	06/05/20 21:20
KC-MW-05 0620	20F0067-03	QBHGDMA80-01 060520A-060	06/05/20 21:30
KC-MW-DUP 0620	20F0067-06	QBHGDMA80-01 060520A-061	06/05/20 21:41
Calibration Check	Y0F0810-CCV6	QBHGDMA80-01 060520A-065	06/05/20 23:00
Calibration Blank	Y0F0810-CCB6	QBHGDMA80-01 060520A-066	06/05/20 23:37

CONTINUING CALIBRATION CHECK

EPA 7473

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Instrument ID: DMA 80-01
Calibration: 06/05/20
Control Limt: +/- 20.00%
Sequence: Y0F0810

Lab Sample ID	Analyte	True	Found	%R	Units	Method
Y0F0810-CCV1	Mercury	0.0100	0.0107	107	mg/L	EPA 7473
Y0F0810-CCV2	Mercury	0.0100	0.0102	102	mg/L	EPA 7473
Y0F0810-CCV3	Mercury	0.0100	0.00951	95.1	mg/L	EPA 7473
Y0F0810-CCV5	Mercury	0.0100	0.00937	93.7	mg/L	EPA 7473
Y0F0810-CCV6	Mercury	0.0100	0.00905	90.5	mg/L	EPA 7473

* Values outside of QC limits

FORM I **BLANKS**

EPA 7473

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie)

Instrument ID: DMA 80-01 Project: 41103.20 Kingston CVS

Sequence: Y0F0810 Calibration: 06/05/20 0

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
Y0F0810-CCB1	Mercury	0.00003	0.00020	mg/L		EPA 7473
BF00337-BLK1	Mercury	0.00002	0.00020	mg/L		EPA 7473
Y0F0810-CCB2	Mercury	0.00002	0.00020	mg/L		EPA 7473
Y0F0810-CCB3	Mercury	0.00	0.00020	mg/L		EPA 7473
Y0F0810-CCB5	Mercury	0.00003	0.00020	mg/L		EPA 7473
Y0F0810-CCB6	Mercury	0.00	0.00020	mg/L		EPA 7473

BENCHSHEETS

SDG: 20F0067

CLASS: HG

METHOD: EPA 7473

PREPARATION BENCH SHEET-AQUEOUS: BF00337

Prepared: **06/05/2020 11:11**

York Analytical Laboratories, Inc.

Printed: 6/8/2020 1:21:00PM

Matrix: Water **Preparation EPA 7473 water** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data			Decanted Y/N	Comments
									Initial	Acid	Basic		
20F0049-01 I	Mercury by 7473	0.25	0.25										
20F0049-02 I	Mercury by 7473	0.25	0.25										
20F0049-03 I	Mercury by 7473	0.25	0.25										
20F0049-04 I	Mercury by 7473	0.25	0.25										
20F0049-05 I	Mercury by 7473	0.25	0.25										
20F0049-06 I	Mercury by 7473	0.25	0.25										
20F0067-01 E	Mercury by 7473	0.25	0.25										
20F0067-02 D	Mercury by 7473	0.25	0.25										
20F0067-03 D	Mercury by 7473	0.25	0.25										
20F0067-06 D	Mercury by 7473	0.25	0.25										
20F0135-01 I	Mercury by 7473	0.25	0.25										
20F0135-02 I	Mercury by 7473	0.25	0.25										
20F0135-03 I	Mercury by 7473	0.25	0.25										
20F0135-04 AE	Mercury by 7473	0.25	0.25										
20F0135-05 I	Mercury by 7473	0.25	0.25										
20F0177-01 I	Mercury by 7473	0.25	0.25										
20F0177-02 I	Mercury by 7473	0.25	0.25										
20F0227-01 D	Mercury by 7473	0.25	0.25										
BF00337-BLK1	QC	0.25	0.25										
BF00337-DUP1	QC	0.25	0.25					20F0135-04					
BF00337-MS1	QC	0.25	0.25	Y20A015	125			20F0135-04					
BF00337-SRM1	QC	0.1	0.1	Y20B395	100								

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparation Performed by SY **Date:** 06/05/2020 11:11

Pos Nr	Samplename Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
1 1	mb	0.1000	g	05.06.2020 07:27:17		0.0048	0.0902	0.9021	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
2 2	mb	0.1000	g	05.06.2020 07:27:19		0.0004	0.0000	0.0001	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
3 3	Sys Conditioning 1ng	0.1000	g	05.06.2020 07:51:05		0.0433	0.9944	9.9443	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
4 4	SEQ-LCV1	0.1000	g	05.06.2020 08:07:26		0.0098	0.2072	2.0715	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
5 5	SEQ-HCV1	0.1000	g	05.06.2020 09:55:50		0.0887	2.0631	20.6312	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
6 -	auto BV (1)	0.0000	g	05.06.2020 10:04:15	B	0.0010	0.0000	0.0000	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	15.11.2013
7 6	mb	0.1000	g	05.06.2020 09:55:52		0.0008	0.0000	0.0001	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
8 7	SEQ-CCV1	0.1000	g	05.06.2020 10:14:15		0.0463	1.0667	10.6669	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
9 8	SEQ-CCB1	0.2500	g	05.06.2020 10:14:48		0.0013	0.0065	0.0260	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
10 9	BF00323-BLK1	0.2500	g	05.06.2020 10:36:37		0.0008	0.0000	0.0000	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
11 10	BF00323-SRM1	0.1000	g	05.06.2020 10:36:43		0.0399	0.9141	9.1411	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
12 12	20E0905-08	0.2500	g	05.06.2020 11:00:48		0.0021	0.0266	0.1062	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
13 13	BF00323-DUP1	0.2500	g	05.06.2020 11:18:44		0.0014	0.0105	0.0419	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
14 11	BF00323-MS1	0.1250	g	05.06.2020 11:34:39		0.0542	1.2523	10.0188	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
15 14	BF00337-BLK1	0.2500	g	05.06.2020 11:50:42		0.0012	0.0057	0.0228	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
16 15	BF00337-SRM1	0.1000	g	05.06.2020 11:50:48		0.0456	1.0501	10.5006	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
17 17	20F0135-02	0.2500	g	05.06.2020 12:10:15		0.0023	0.0303	0.1210	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
18 18	20F0135-03	0.2500	g	05.06.2020 12:10:18		0.0022	0.0280	0.1118	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
19 16	20F0135-01	0.2500	g	05.06.2020 12:57:07		0.0016	0.0149	0.0594	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
20 19	SEQ-CCV2	0.1000	g	05.06.2020 13:29:44		0.0445	1.0225	10.2246	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
21 20	SEQ-CCB2	0.2500	g	05.06.2020 13:29:47		0.0012	0.0039	0.0155	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
22 21	20F0135-04	0.2500	g	05.06.2020 13:38:52		0.0025	0.0340	0.1361	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013

Pos Nr	Samplename Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
23 22	BF00337-DUP1	0.2500	g	05.06.2020 13:38:56	❯	0.0024	0.0329	0.1317	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
24 23	BF00337-MS1	0.1250	g	05.06.2020 14:01:40	❯	0.0485	1.1168	8.9342	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
25 24	20F0135-05	0.2500	g	05.06.2020 14:18:14	❯	0.0023	0.0294	0.1176	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
26 25	20F0049-01	0.2500	g	05.06.2020 14:18:17	❯	0.0013	0.0063	0.0252	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
27 26	20F0049-02	0.2500	g	05.06.2020 14:18:22	❯	0.0013	0.0066	0.0266	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
28 27	20F0049-03	0.2500	g	05.06.2020 14:18:24	❯	0.0012	0.0058	0.0231	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
29 28	20F0049-04	0.2500	g	05.06.2020 14:18:27	❯	0.0013	0.0076	0.0303	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
30 29	20F0049-05	0.2500	g	05.06.2020 14:18:29	❯	0.0009	0.0000	0.0000	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
31 30	20F0049-06	0.2500	g	05.06.2020 14:18:31	❯	0.0008	0.0000	0.0000	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
32 31	SEQ-CCV3	0.1000	g	05.06.2020 15:42:58	❯	0.0414	0.9509	9.5086	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
33 32	SEQ-CCB3	0.2500	g	05.06.2020 15:43:01	❯	0.0009	0.0000	0.0000	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
34 33	BF00359-BLK1	0.2500	g	05.06.2020 15:55:54	❯	0.0020	0.0237	0.0949	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
35 34	BF00359-LBK1	0.2500	g	05.06.2020 15:55:58	❯	0.0010	0.0000	0.0000	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
36 36	20E0901-01	0.2500	g	05.06.2020 16:38:45	❯	0.0027	0.0392	0.1567	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
37 37	20E0901-02	0.2500	g	05.06.2020 16:38:50	❯	0.0008	0.0000	0.0000	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
38 38	20E0904-01	0.2500	g	05.06.2020 16:38:52	❯	0.0016	0.0148	0.0591	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
39 39	20F0001-01	0.2500	g	05.06.2020 16:38:56	❯	0.0014	0.0100	0.0401	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
40 35	BF00359-SRM1	0.1000	g	05.06.2020 17:00:30	❯	0.0402	0.9213	9.2133	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
41 40	SEQ-CCV4	0.1000	g	05.06.2020 17:32:37	❯	0.0375	0.8581	8.5814	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
42 1	SEQ-CCB4	0.2500	g	05.06.2020 17:32:40	❯	0.0012	0.0050	0.0198	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
43 2	20F0013-01	0.2500	g	05.06.2020 17:53:03	❯	0.0022	0.0271	0.1086	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
44 3	BF00359-DUP1	0.2500	g	05.06.2020 17:53:06	❯	0.0020	0.0229	0.0914	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013

Pos Nr	Samplename Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
45 4	BF00359-MS1	0.1250	g	05.06.2020 18:25:09	❯	0.0476	1.0952	8.7616	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
46 5	20F0114-01	0.2500	g	05.06.2020 18:37:51	❯	0.0033	0.0545	0.2179	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
47 6	20F0149-01	0.2500	g	05.06.2020 18:37:56	❯	0.0042	0.0753	0.3011	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
48 7	20F0149-02	0.2500	g	05.06.2020 18:37:58	❯	0.0126	0.2734	1.0937	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
49 8	20F0218-04	0.2500	g	05.06.2020 18:38:01	❯	0.0016	0.0130	0.0519	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
50 9	20F0218-10	0.2500	g	05.06.2020 18:38:04	❯	0.0018	0.0181	0.0722	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
51 10	20F0218-16	0.2500	g	05.06.2020 18:38:07	❯	0.0014	0.0104	0.0417	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
52 11	20F0218-22	0.2500	g	05.06.2020 18:38:09	❯	0.0016	0.0143	0.0570	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
53 12	SEQ-CCV5	0.1000	g	05.06.2020 20:39:50	❯	0.0408	0.9369	9.3690	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
54 13	SEQ-CCB5	0.2500	g	05.06.2020 20:53:30	❯	0.0013	0.0064	0.0257	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
55 14	20F0114-01 Rerun	0.2500	g	05.06.2020 21:16:48	❯	0.0017	0.0158	0.0633	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
56 15	20F0148-01	0.2500	g	05.06.2020 21:17:04	❯	0.0020	0.0228	0.0911	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
57 16	20F0194-01	0.2500	g	05.06.2020 21:17:18	❯	0.0016	0.0141	0.0566	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
58 17	20F0067-01	0.2500	g	05.06.2020 21:17:28	❯	0.0019	0.0221	0.0885	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
59 18	20F0067-02	0.2500	g	05.06.2020 21:17:50	❯	0.0019	0.0222	0.0889	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
60 19	20F0067-03	0.2500	g	05.06.2020 21:17:53	❯	0.0016	0.0141	0.0563	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
61 20	20F0067-06	0.2500	g	05.06.2020 21:17:57	❯	0.0016	0.0143	0.0571	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
62 21	20F0177-01	0.2500	g	05.06.2020 21:18:03	❯	0.0015	0.0111	0.0443	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
63 22	20F0177-02	0.2500	g	05.06.2020 21:18:10	❯	0.0016	0.0130	0.0518	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
64 23	20F0227-01	0.2500	g	05.06.2020 21:18:12	❯	0.0012	0.0055	0.0219	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
65 24	SEQ-CCV6	0.1000	g	05.06.2020 23:36:57	❯	0.0395	0.9049	9.0488	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
66 25	SEQ-CCB6	25.0000	g	06.06.2020 00:14:37	❯	0.0008	0.0000	0.0000	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013

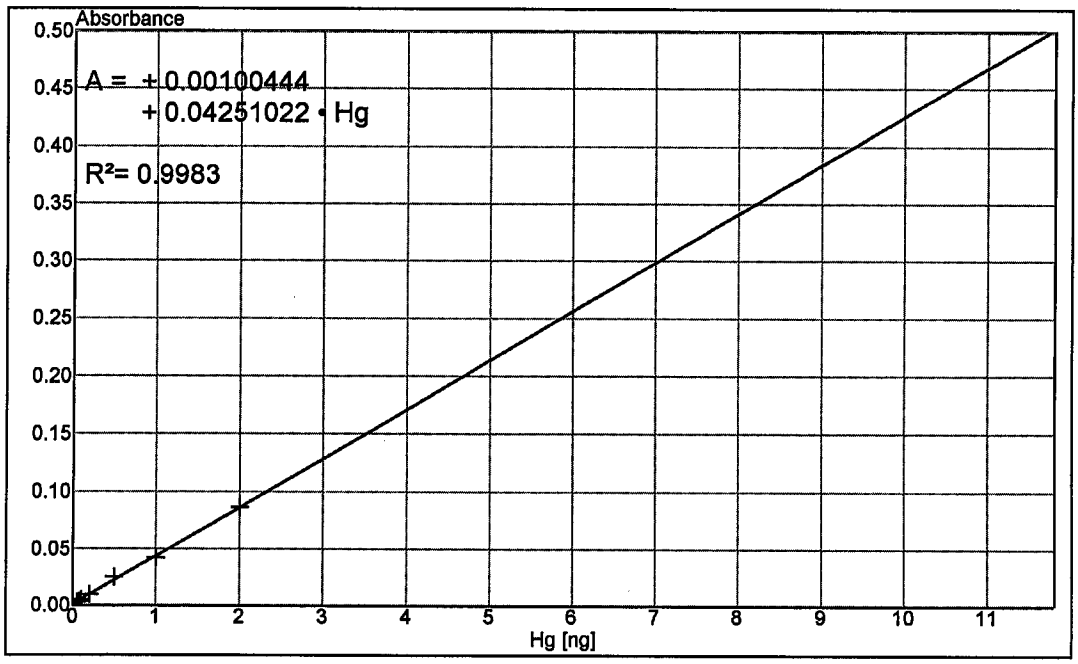
Pos Nr	Samplename Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
1 1	mb	0.1000	g	08.06.2020 09:31:17	✓	0.0013	0.0073	0.0728	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
2 2	mb	0.1000	g	08.06.2020 09:31:19	✓	0.0004	0.0000	0.0001	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
3 3	Sys Conditioning 1ng	0.1000	g	08.06.2020 09:48:22	✓	0.0452	1.0404	10.4043	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
4 4	SEQ-LCV1	0.1000	g	08.06.2020 11:45:35	✓	0.0094	0.1965	1.9655	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
5 5	SEQ-HCV1	0.1000	g	08.06.2020 12:43:37	✓	0.0816	1.8953	18.9526	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
6 6	mb	0.1000	g	08.06.2020 12:43:40	✓	0.0018	0.0186	0.1863	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
7 7	SEQ-CCV1	0.1000	g	08.06.2020 12:51:56	✓	0.0387	0.8860	8.8604	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
8 8	SEQ-CCB1	0.2500	g	08.06.2020 12:51:58	✓	0.0012	0.0035	0.0141	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
9 9	20F0149-01 Rerun from BF00359 06-05-2020	0.2500	g	08.06.2020 13:15:12	✓	0.0083	0.1710	0.6842	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
10 10	20F0149-02 Rerun from BF00359 06-05-2020	0.2500	g	08.06.2020 13:15:17	✓	0.0128	0.2771	1.1083	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
11 11	BF00422-BLK1	0.2500	g	08.06.2020 13:51:31	✓	0.0007	0.0000	0.0000	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
12 12	BF00422-SRM1	0.1000	g	08.06.2020 14:12:28	✓	0.0447	1.0273	10.2729	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
13 13	20F0265-01	0.2500	g	08.06.2020 14:27:21	✓	0.0012	0.0052	0.0206	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
14 14	20F0265-02	0.2500	g	08.06.2020 14:27:26	✓	0.0023	0.0300	0.1199	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
15 15	20F0265-03	0.2500	g	08.06.2020 14:27:29	✓	0.0014	0.0098	0.0390	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
16 16	20F0265-04	0.2500	g	08.06.2020 14:27:31	✓	0.0012	0.0037	0.0146	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
17 17	BF00422-DUP1	0.2500	g	08.06.2020 14:27:33	✓	0.0010	0.0000	0.0000	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
18 18	BF00422-MS1	0.1250	g	08.06.2020 15:35:12	✓	0.0534	1.2327	9.8619	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
19 19	SEQ-CCV2	0.1000	g	08.06.2020 15:49:00	✓	0.0410	0.9411	9.4112	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
20 20	SEQ-CCB2	0.2500	g	08.06.2020 15:49:02	✓	0.0010	0.0006	0.0024	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
21 22	20F0250-11	0.2500	g	08.06.2020 16:19:16	✓	0.0013	0.0067	0.0269	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
22 23	SEQ-CCV3	0.1000	g	08.06.2020 16:30:32	✓	0.0420	0.9654	9.6538	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013

Pos Nr	Samplename Remak	Weight	U	Creation Date	State	Height	Hg [ng]	Concentr. [µg/kg]	Cal-Factor	Calibration file Date	Method file Date
23	SEQ-CCB3	0.2500	g	08.06.2020 16:30:36	›	0.0008	0.0000	0.0000	1.0000	ical LLaq DMA80-01 022520a.c80 25.02.2020 14:14:14	aq samples.m80 15.11.2013
24											

Calibration data "ical LLaq DMA80-01 022520a.c80"

Created by "Service" at 25.02.2020 14:14:14

Cell 0

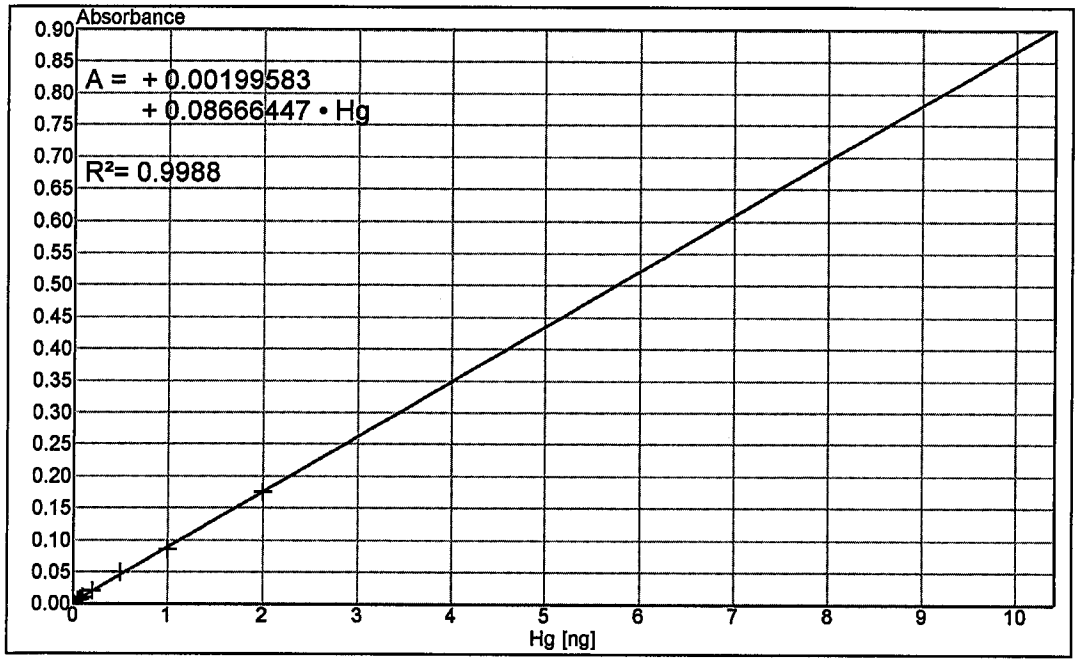


Nr.		Hg [ng]	Height ^	Error ΔE [%]	Date	Remarks
1	✔	0.0000	0.0004	-0.0006	25.02.2020 11:28:02	
2	✔	0.0500	0.0029	-0.0002	25.02.2020 11:38:28	
3	✔	0.0750	0.0038	-0.0004	25.02.2020 11:49:08	
4	✔	0.1000	0.0050	-0.0003	25.02.2020 11:59:50	
5	✔	0.2000	0.0096	0.0001	25.02.2020 12:10:33	
6	✔	0.5000	0.0250	0.0027	25.02.2020 12:21:14	
7	✔	1.0000	0.0420	-0.0015	25.02.2020 12:31:58	
8	✔	2.0000	0.0861	0.0001	25.02.2020 12:42:41	

Calibration data "ical LLaq DMA80-01 022520a.c80"

Created by "Service" at 25.02.2020 14:14:14

Cell 1

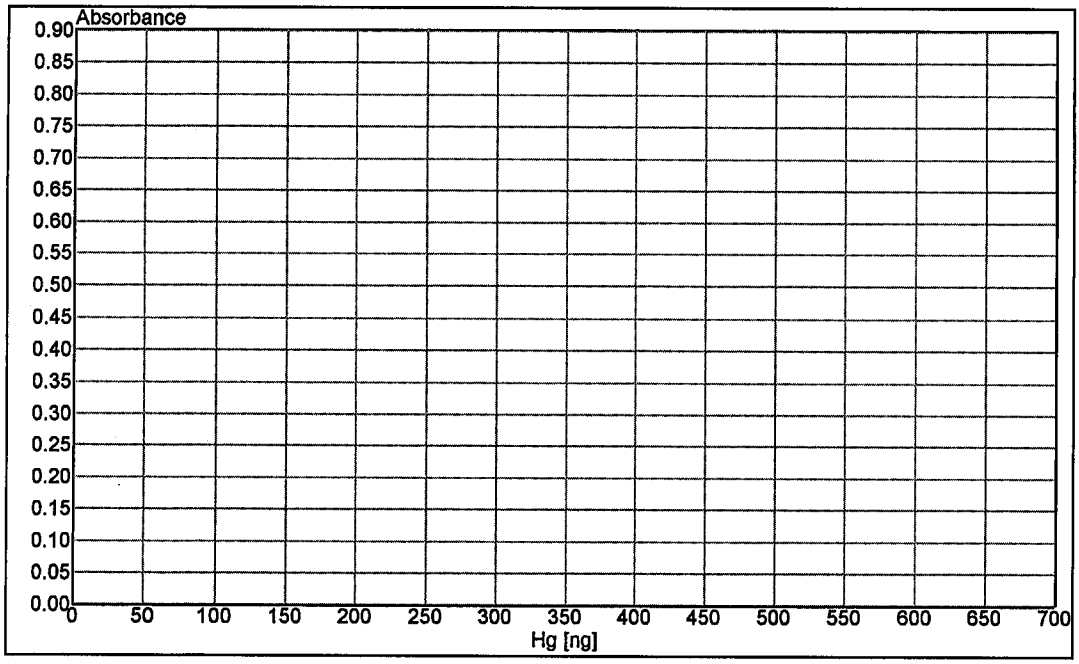


Nr.		Hg [ng]	Height ^	Error ΔE [%]	Date	Remarks
1	✔	0.0000	0.0006	-0.0014	25.02.2020 11:28:02	
2	✔	0.0500	0.0061	-0.0003	25.02.2020 11:38:28	
3	✔	0.0750	0.0075	-0.0009	25.02.2020 11:49:08	
4	✔	0.1000	0.0103	-0.0004	25.02.2020 11:59:50	
5	✔	0.2000	0.0201	0.0007	25.02.2020 12:10:33	
6	✔	0.5000	0.0499	0.0046	25.02.2020 12:21:14	
7	✔	1.0000	0.0862	-0.0024	25.02.2020 12:31:58	
8	✔	2.0000	0.1754	0.0000	25.02.2020 12:42:41	

Calibration data "ical LLaq DMA80-01 022520a.c80"

Created by "Service" at 25.02.2020 14:14:14

Cell 2



Nr.		Hg [ng]	Height ^	Error ⊿E [%]	Date	Remarks

Sample listing "QBHgDMA80-01 022520cal.d80"

Created by "Service"
25.02.2020 15:03:08

Pos Nr.	Samplename Remark	Amount Date	State Date	Height	Hg [ng]	Concentr. [µg/kg]	Σ	Cal- Factor
1 (1)	0.0 ng	0.2500 g 25.02.20 11:14	✔ C 25.02.20 11:19	0.0004	0.0000	0.0001		1.0000
2 (2)	0.050 ng	0.0500 g 25.02.20 11:14	✔ C 25.02.20 11:27	0.0029	0.0500	1.0000		1.0000
3 (3)	0.075 ng	0.0750 g 25.02.20 11:14	✔ C 25.02.20 11:38	0.0038	0.0750	1.0000		1.0000
4 (4)	0.10 ng	0.1000 g 25.02.20 11:14	✔ C 25.02.20 11:49	0.0050	0.1000	1.0000		1.0000
5 (5)	0.20 ng	0.2000 g 25.02.20 11:14	✔ C 25.02.20 11:59	0.0096	0.2000	1.0000		1.0000
6 (6)	0.50 ng	0.5000 g 25.02.20 11:14	✔ C 25.02.20 12:10	0.0250	0.5000	1.0000		1.0000
7 (7)	1.00 ng	0.1000 g 25.02.20 11:14	✔ C 25.02.20 12:21	0.0420	1.0000	10.0000		1.0000
8 (8)	2.00 ng	0.2000 g 25.02.20 11:14	✔ C 25.02.20 12:31	0.0861	2.0000	10.0000		1.0000
9 (9)	mb	0.0250 g 25.02.20 12:51	✔ 25.02.20 12:51	0.0013	0.0068	0.2714		1.0000
11 (10)	ICV	0.1000 g 25.02.20 14:38	✔ 25.02.20 14:38	0.0468	1.0766	10.7659		1.0000

Form 2A

INITIAL CALIBRATION VERIFICATION (Hg)

Lab Name: York Analytical Laboratories, Inc.

I Cal Source: Inorganic Ventures

Sequence: DMA80-01 022520a.c80

C Cal Source: Absolute Standards

Concentration units: ug/L

		ICV	
Analyte	TRUE	FOUND	%R(1)
Mercury	10.0000	10.7659	107.7

(1) Control Limits Hg 80-120 %

York Analytical Laboratories, Inc.
SDG: 20F0067
CLASS: HG
METHOD: EPA 7470

DATA PACKAGE COVER PAGE

EPA 7470

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Client Sample Id:	Lab Sample Id:
KC-MW-01 0620	20F0067-01

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature: 

Name: Benjamin Gulizia

Date: 7/15/2020

Title: Laboratory Director

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

KC-MW-01 0620

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Matrix: Water Laboratory ID: 20F0067-01 File ID: QBHg06032020B-011

Sampled: 06/01/20 12:39 Prepared: 06/03/20 15:26 Analyzed: 06/03/20 15:26

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BF00216 Sequence: Calibration: 06/03/20 1 Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury (dissolved)	0.0002	1	U	EPA 7470

FORM I

METHOD BLANK DATA SHEET

EPA 7470

Laboratory:	York Analytical Laboratories, Inc.			SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41103.20 Kingston CVS
Matrix:	Water	Laboratory ID:	BF00216-BLK1	File ID:	QBHg06032020B-010
Prepared:	06/03/20 15:26	Preparation:	EPA SW846-7470A	Initial/Final:	100 mL / 100 mL
Analyzed:	06/03/20 15:26	Instrument:	Buck 410		
Batch:	BF00216	Sequence:		Calibration:	

CAS NO.	COMPOUND	CONC. (mg/L)	Q
7439-97-6	Mercury	0.0002	U

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 7470

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00216	Laboratory ID:	BF00216-BS1
Preparation:	EPA SW846-7470A	Initial/Final:	100 mL / 100 mL

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Mercury (dissolved)	0.00200	0.0020	98.8	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 7470

Laboratory:	York Analytical Laboratories, Inc.	SDG:	20F0067
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41103.20 Kingston CVS
Matrix:	Water		
Batch:	BF00216	Laboratory ID:	BF00216-BS2
Preparation:	EPA SW846-7470A	Initial/Final:	100 mL / 100 mL

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Mercury (dissolved)	0.00200	0.0020	98.8	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 7470

Laboratory: York Analytical Laboratories, Inc. **SDG:** 20F0067

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41103.20 Kingston CVS

Matrix: Water **Instrument:**

Analyte	LOD	LOQ	Units
Mercury (dissolved)	0.0002	0.0002	mg/L

FORM IV **PREPARATION BATCH SUMMARY**

EPA 7470

Laboratory: York Analytical Laboratories, Inc. SDG: 20F0067

Client: Chazen Environmental Services (Poughkeepsie) Project: 41103.20 Kingston CVS

Batch: BF00216 Batch Matrix: Water Preparation: EPA SW846-7470A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KC-MW-01 0620	20F0067-01	QBHg06032020B-011	06/03/20 15:26	
Blank	BF00216-BLK1	QBHg06032020B-010	06/03/20 15:26	
LCS	BF00216-BS1	QBHg06032020B-009	06/03/20 15:26	
LCS	BF00216-BS2	QBHg06032020B-012	06/03/20 15:26	DEI SPIKE

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7470

Laboratory: York Analytical Laboratories, Inc.
SDG: 20F0067
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41103.20 Kingston CVS
Sequence:
Instrument:
Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	BF00216-BS2	QBHg06032020B-012	06/03/20 15:26
LCS	BF00216-BS1	QBHg06032020B-009	06/03/20 15:26
Blank	BF00216-BLK1	QBHg06032020B-010	06/03/20 15:26

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7470

Laboratory: York Analytical Laboratories, Inc.
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Client: Chazen Environmental Services (Poughkeepsie)
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Sequence:
Instrument:
Matrix:
Calibration: 06/03/20

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	BF00216-BS2	QBHg06032020B-012	06/03/20 15:26
LCS	BF00216-BS1	QBHg06032020B-009	06/03/20 15:26
Blank	BF00216-BLK1	QBHg06032020B-010	06/03/20 15:26

MERCURY QBHg06032020B

	ug/L
CCV Spike Conc:	2.0

Date:	06/03/2020
Analyst:	AA
Instrument:	Buck 410, Cold Vapor

LabNumber	Dil	Absorbance	Control Limit 90-110% %R	Conc. (µg/L)	Conc. (mg/L) Result
CCV-1	1	0.9570000	97.2	1.9441806	**0.0019442**
CCB-1	1	0.0150000		0.1275871	**0.0001276**
BF00215-BS1	1	0.9180000		1.8689713	**0.0018690**
BF00215-BLK1	1	0.0100000		0.1179449	**0.0001179**
BF00215-BLK2	1	-0.0040000		0.0909467	**0.0000909**
20F0043-01	1	-0.0360000		0.0292365	**0.0000292**
20F0083-01	1	-0.0650000		-0.0266883	**-0.0000267**
BF00215-BS2	1	0.9540000		1.9383953	**0.0019384**
BF00216-BS1	1	0.9740000		1.9769641	**0.0019770**
BF00216-BLK1	1	-0.0390000		0.0234512	**0.0000235**
20F0067-01	1	-0.1190000		-0.1308243	**-0.0001308**
BF00216-BS2	1	0.9740000		1.9769641	**0.0019770**
CCV-2	1	1.0130000	102.6	2.0521734	**0.0020522**
CCB-2	1	-0.0090000		0.0813045	**0.0000813**

BENCHSHEETS

SDG: 20F0067

CLASS: HG

METHOD: EPA 7470

PREPARATION BENCH SHEET-AQUEOUS: BF00216

Prepared: **06/03/2020 15:26**

York Analytical Laboratories, Inc.

Printed: 6/10/2020 6:12:36AM

Matrix: Water **Preparation EPA SW846-7470A** **(No Surrogate)** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data Initial	pH Data Acid	pH Data Basic	Decanted Y/N	Comments
20F0067-01 D	Mercury, Dissolvec	100	100										
BF00216-BLK1	QC	100	100										
BF00216-BS1	QC	100	100	Y20E334	200								
BF00216-BS2	QC	100	100	Y20E334	200								DEI SPIKE

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparation Performed by AA **Date:** 06/03/2020 15:26

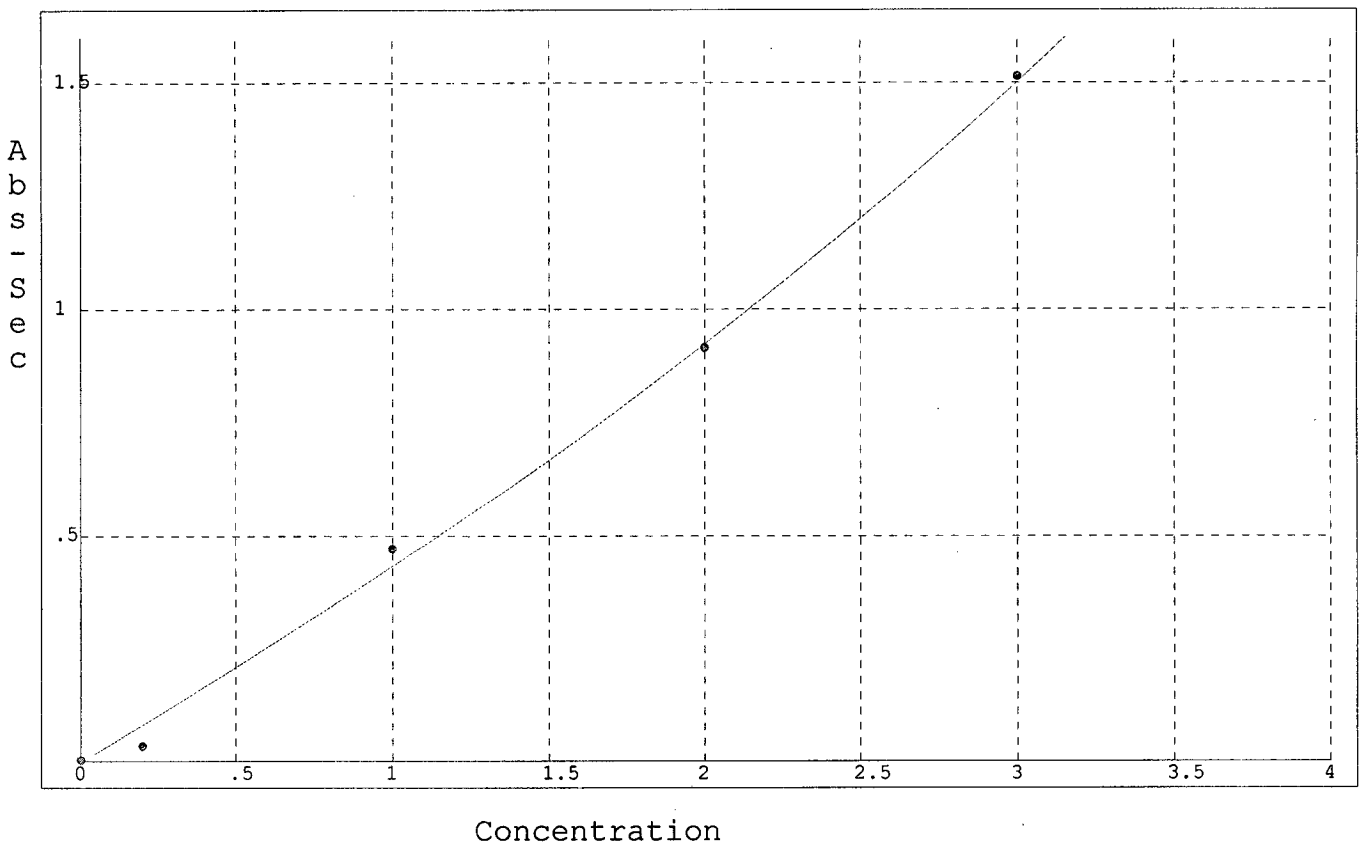
Calibration Report

Statistics

Data Source:	QBHg06032020B0130.brf
File Date:	kground: 4.891 End of Report # 13
Method:	Hydride/Vapor
Anl:	Hg-CV-253.7
Max Conc:	3.5 ppb
Conc Coeff:	2.4189
C2:	-.116482
R Squared	0.99765

Standards

1	S1	0.00000	0.002606
2	S2	0.20000	0.033930
3	S3	1.00000	0.471374
4	S4	2.00000	0.915975
5	S5	3.00000	1.513917
6	S6	3.50000	1.790937



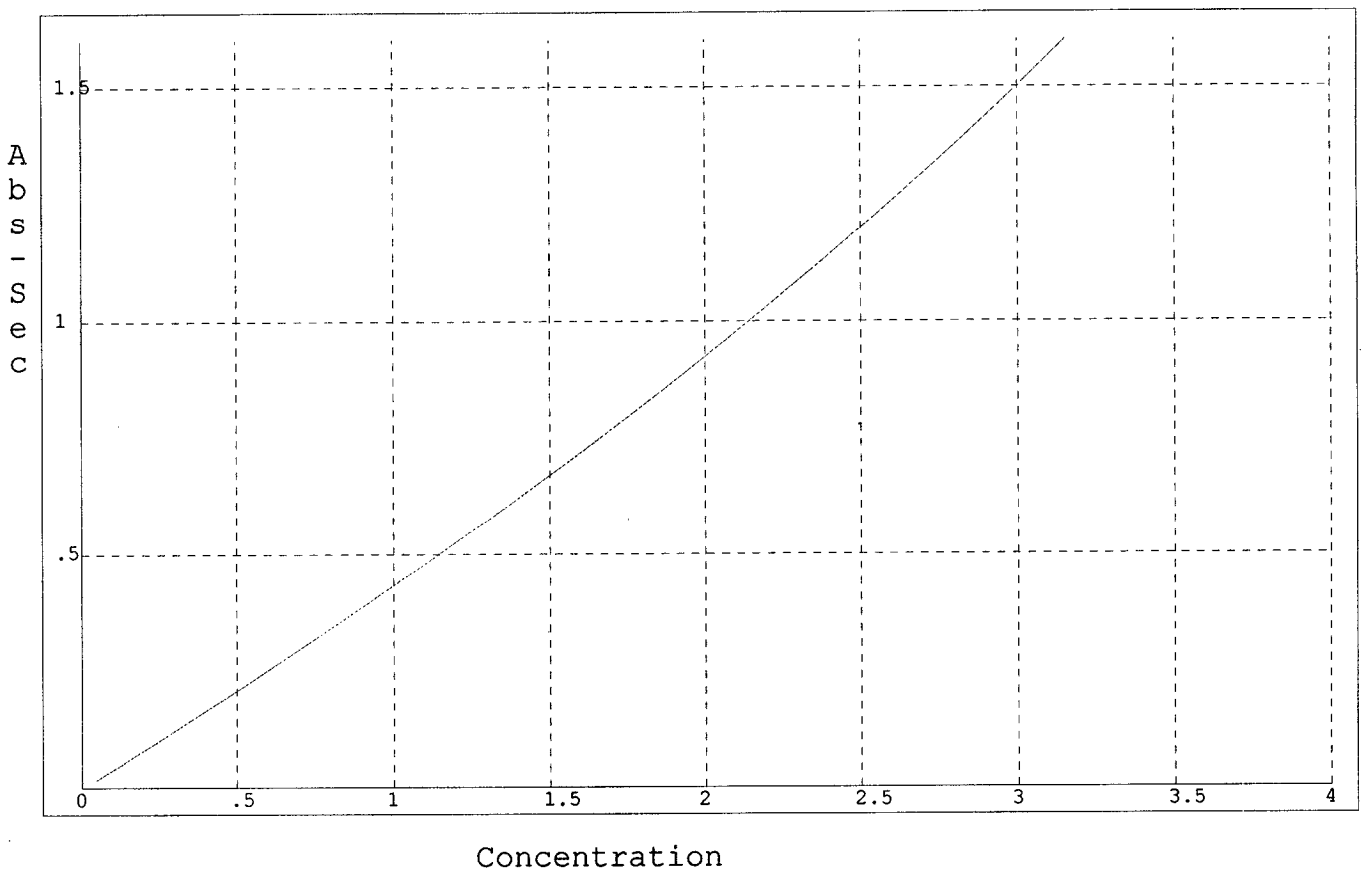
Samples

Ref	Time	Cup	Sample	Abs-Sec	Bkg Abs
1	9:42:46 PM	1	S1	-0.003	0.000
2	9:45:16 PM	2	S2	0.034	0.014
3	9:49:07 PM	3	S3	0.471	0.011
4	9:51:05 PM	4	S4	0.916	0.015
5	9:57:17 PM	5	S5	1.514	0.014
6	9:59:23 PM	6	S6	1.791	0.010

Sample Report

Statistics

Data Source: QBHg06032020B0131.brf
File Date: 10:01:45 PM Wed Jun 3, 2020
Method: Hydride/Vapor
Anl: Hg-CV-253.7
Max Conc: 3.5 ppb
Conc Coeff: 2.4189
C2: -.116482



Samples

Ref	Time	Cup	Sample		Abs-Sec	Bkg Abs
1	10:03:23 PM	1	S1	2.20 ppb	1.031	0.014
2	10:07:29 PM	2	S2	0.02 ppb	0.005	0.005
3	10:09:20 PM	3	S3	2.26 ppb	1.066	0.007
4	10:12:08 PM	4	S4	2.06 ppb	0.957	0.012
5	10:15:21 PM	5	S5	0.11 ppb	0.044	0.000
6	10:17:42 PM	6	S6	0.04 ppb	0.015	0.000
7	10:19:27 PM	7	S7	1.99 ppb	0.918	0.000
8	10:21:28 PM	8	S8	0.03 ppb	0.010	0.000
9	10:24:02 PM	9	S9	0.00 ppb	-0.004	0.002
10	10:27:27 PM	10	S10	-0.07 ppb	-0.036	0.017
11	10:29:19 PM	11	S11	-0.14 ppb	-0.065	0.021
12	10:31:15 PM	12	S12	2.06 ppb	0.954	0.017
13	10:34:02 PM	13	S13	2.09 ppb	0.974	0.001
14	10:36:15 PM	14	S14	-0.08 ppb	-0.039	0.003
15	10:38:15 PM	15	S15	-0.28 ppb	-0.119	0.012
16	10:40:08 PM	16	S16	2.09 ppb	0.974	0.006
17	10:42:13 PM	17	S17	1.86 ppb	0.853	0.001
18	10:44:39 PM	18	S18	2.17 ppb	1.013	0.001
19	10:47:01 PM	19	S19	0.00 ppb	-0.009	0.001
20	10:49:04 PM	20	S20	2.09 ppb	0.970	0.001
21	10:50:45 PM	21	S21	-0.11 ppb	-0.052	0.001
22	10:52:45 PM	22	S22	-0.33 ppb	-0.141	0.013
23	10:54:43 PM	23	S23	-0.12 ppb	-0.055	0.010
24	11:02:30 PM	24	S24	0.07 ppb	0.028	0.009
25	11:04:16 PM	25	S25	-0.17 ppb	-0.077	0.009
26	11:06:12 PM	26	S26	-0.11 ppb	-0.052	0.010
27	11:08:26 PM	27	S27	-0.11 ppb	-0.051	0.006
28	11:10:29 PM	28	S28	0.09 ppb	0.035	0.011
29	11:12:31 PM	29	S29	-0.20 ppb	-0.087	0.004
30	11:14:32 PM	30	S30	2.15 ppb	1.006	0.000
31	11:16:14 PM	31	S31	-0.20 ppb	-0.088	0.001
32	11:18:16 PM	32	S32	-0.09 ppb	-0.044	0.007
33	11:20:10 PM	33	S33	-0.16 ppb	-0.073	0.008
34	11:22:10 PM	34	S34	-0.11 ppb	-0.053	0.010
35	11:24:06 PM	35	S35	-0.11 ppb	-0.050	0.008
36	11:26:03 PM	36	S36	-0.28 ppb	-0.123	0.030
37	11:28:12 PM	37	S37	-0.07 ppb	-0.035	0.009
38	11:30:13 PM	38	S38	0.00 ppb	-0.002	0.002
39	11:32:14 PM	39	S39	0.00 ppb	-0.005	0.000
40	11:34:17 PM	40	S40	0.21 ppb	0.086	0.000
41	11:36:16 PM	41	S41	-0.04 ppb	-0.025	0.000
42	11:38:09 PM	42	S42	1.93 ppb	0.889	0.000
43	11:40:38 PM	43	S43	0.01 ppb	0.003	0.000
44	12:14:38 AM	44	S44	-0.13 ppb	-0.060	0.011
45	12:39:51 AM	45	S45	-0.08 ppb	-0.040	0.005
46	12:42:11 AM	46	S46	2.11 ppb	0.983	0.002
47	12:43:58 AM	47	S47	2.12 ppb	0.987	0.004
48	12:45:47 AM	48	S48	-0.05 ppb	-0.026	0.004

MERCURY ICAL: QBHg06032020B

STANDARDS DATA	
Concentration (µg/L)	Absorbance
0	-0.003
0.2	0.034
1	0.471
2	0.916
3	1.514
3.5	1.791
SLOPE	**1.9284432**
y-INTERCEPT	**0.0986605**
CORRELATION	**0.9985265**
ICV	1.031
ICB	0.005

Date:	06/03/2020
Analyst:	AA
Instrument:	Buck 410, Cold Vapor

	ug/L		
ICV Spike Conc:	2.0		
			Control Limit 85-115%
	ug/L	mg/L	%R
ICV Conc:	2.0868854	0.0020869	104.3
ICB Conc:	0.1083027	0.0001083	