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Mr. Glenn May, PG
New York State Department of Environmental Conservation, Region 9
270 Michigan Avenue
Buffalo, NY 14203-2999

**Subject: Fiscal Fourth Quarter 2019 Groundwater Monitoring Report (7/25/19-10/17/19)
October 2019 Sampling Event
Former Scott Aviation Facility – West of Plant 2
Lancaster, New York
NYSDEC Site Code No. 9-15-149**

Dear Mr. May:

On behalf of Scott Figgie LLC (successor to Scott Technologies, Inc.), AECOM Technical Services, Inc. (AECOM) is pleased to provide this Fiscal Fourth Quarter 2019 Groundwater Monitoring Report for the former Scott Aviation Facility – West of Plant 2 area (site) located in Lancaster, New York (**Figure 1**). Quarterly groundwater monitoring activities have been performed in accordance with the New York State Department of Environmental Conservation (NYSDEC) Administrative Order on Consent (AOC), Index No. B9-0377095-05, for the former Scott Aviation facility (formerly Figgie International), NYSDEC Site Code No. 9-15-149. This report has been developed in accordance with the NYSDEC Division of Environmental Remediation, DER-10 Technical Guidance for Site Investigation and Remediation, dated May 3, 2010.

Groundwater samples were collected from select monitoring wells in fulfillment of the site AOC for groundwater monitoring requirements. A new monitoring schedule was implemented based on Table 12 presented in the revised Periodic Review Report (PRR) (April 18, 2018 through April 8, 2019), dated August 8, 2019, and the wells sampled during this groundwater monitoring event reflect this schedule. Additionally, one vapor sample was collected from the air stripper discharge sampling port as part of the October 2019 sampling event, to ensure that the treated system effluent was in compliance with NYSDEC vapor discharge guidance criteria. Included in this report are a description of the project background, groundwater and vapor monitoring activities, operation and maintenance (O&M) activities for the groundwater dual phase extraction (DPE) remediation system, and a summary of groundwater quality and vapor effluent results.

Project Background

Scott Aviation, Inc. was sold to Zodiac Acquisitions Corporation in 2004, and the facility is now occupied by AVOX Systems Inc. (AVOX). Per the purchase and sale agreement, the responsibility for the DPE groundwater remediation system located at 25A Walter Winter Drive, west of AVOX Plant 2, was retained for a designated period of years by Scott Technologies, Inc., the former parent company of Scott Aviation, Inc. Due to an organizational change, Scott Figgie LLC has replaced Scott Technologies, Inc. as the entity responsible under that agreement for the remediation of the subject site until the designated period ends. Scott Figgie has retained the services of AECOM for the ongoing O&M of the DPE remediation system and related groundwater monitoring activities.

AECOM conducted a site investigation during February 2003 in fulfillment of the document Site Investigation Work Plan dated December 31, 2002 (NYSDEC approval dated January 15, 2003). A comprehensive "Site Investigation Completion Report" (SICR) was submitted to NYSDEC on June

30, 2003; the report was approved by NYSDEC in August 2003. At the request of NYSDEC, AECOM prepared a "Remedial Design Work Plan" (RDWP) to complete the additional remedial work recommended in the SICR. The RDWP was submitted to NYSDEC on November 21, 2003, and the document was approved by NYSDEC on January 5, 2004.

Per the approved RDWP, a DPE remediation system was installed at the site during the period February 2004 through May 2004, and the DPE system was initially started on May 14, 2004. The DPE system was combined with a pre-existing groundwater collection trench (GWCT) system that was started on March 1, 1996.

The objectives for this combined remediation system (collectively known as the combined DPE remediation system) include:

- Maintaining hydraulic capture of groundwater containing dissolved volatile organic compounds (VOCs) along the western Plant 2 property boundary;
- Inducing a depression in the water table surface and reversing the groundwater flow direction along the western Plant 2 property boundary; and,
- Reducing VOC concentrations in perched groundwater and soil.

Figure 2 depicts the location of site groundwater monitoring wells and piezometers, DPE recovery wells and system piping, enclosed DPE system trailer, and pre-existing GWCT and treatment building. **Figure 3** provides the process and instrumentation diagram for the combined DPE remediation system.

At the conclusion of the initial one-year O&M period (May 14, 2004 to July 19, 2005), a "Remedial Action Engineering Report" (RAER) was prepared to summarize the combined DPE remediation system as-built design, combined DPE remediation system start-up, O&M activities, and quarterly monitoring data, and to provide recommendations for continued system operation, system optimization, sampling frequency, and O&M. The 2005 RAER was submitted to NYSDEC on November 11, 2005. In a letter dated December 13, 2005, NYSDEC accepted the 2005 RAER and requested that site monitoring wells MW-4, MW-8R, and MW-16S be added to the quarterly site sampling schedule.

The second year of combined DPE groundwater remediation system operation was summarized in the 2006 RAER (July 20, 2005 through July 20, 2006) and was submitted to NYSDEC in November 2006. The third year of combined DPE groundwater remediation system operation was summarized in the 2007 RAER (July 21, 2006 through October 15, 2007) and was submitted to NYSDEC in January 2008. The fourth year of combined DPE groundwater remediation system operation was summarized in the 2008 RAER (October 15, 2007 through January 22, 2009) and was submitted to NYSDEC in April 2009. The fifth year of combined DPE groundwater remediation system operation was summarized in the 2009 RAER (January 22, 2009 through April 8, 2010) and was submitted to NYSDEC in June 2010.

Per a letter from NYSDEC dated August 16, 2010, an Institutional Controls/Engineering Controls (IC/EC) certification has been, as of that correspondence, required for the site each calendar year, and is to include four quarters of groundwater sampling based on the current **Table 1**. **Table 1** is updated quarterly; the attached **Table 1** presents the groundwater monitoring schedule for the site from January 2020 through October 2020. The August 2010 NYSDEC letter also stated that, as of that correspondence, the RAER should be revised into a Periodic Review Report (PRR). Therefore, the sixth year of combined DPE groundwater remediation system operation was summarized in a PRR (April 8, 2010 through April 7, 2011) and submitted to NYSDEC in June 2011. The seventh year of combined DPE groundwater remediation system operation was summarized in a PRR (April 7, 2011 through April 3, 2012) and submitted to NYSDEC in May 2012. The eighth year of

combined DPE groundwater remediation system operation was summarized in a PRR (April 3, 2012 through April 3, 2013) and submitted to NYSDEC in July 2013. The ninth year of combined DPE groundwater remediation system operation was summarized in a PRR (April 3, 2013 through April 7, 2014) and submitted to NYSDEC in July 2014. The tenth year of combined DPE groundwater remediation system operation was summarized in a PRR (April 7, 2014 through April 7, 2015) and submitted to NYSDEC in July 2015. The eleventh year of combined DPE groundwater remediation system operation was summarized in a PRR (April 7, 2015 through April 7, 2016) and submitted to NYSDEC in November 2016. The twelfth year of combined DPE groundwater remediation system operation was summarized in a PRR (April 7, 2016 through April 20, 2017) and submitted to NYSDEC on May 30, 2017. The thirteenth year of combined DPE groundwater remediation system operation was summarized in a PRR (April 20, 2017 through April 18, 2018) and submitted to NYSDEC on May 31, 2018. During the past year, the fourteenth PRR (April 18, 2018 through April 8, 2019) was completed and submitted to NYSDEC on June 15, 2019; per NYSDEC comment letter dated August 2, 2019, the fourteenth PRR was revised and resubmitted on August 8, 2019. An IC/EC certification was included with each PRR apart from the five most recent PRRs; NYSDEC informed AECOM via email that an IC/EC certification form was not auto-generated by the NYSDEC and therefore to submit those PRRs without an IC/EC certification.

Quarterly Groundwater Monitoring Activities – October 2019

AECOM personnel collected quarterly groundwater samples on October 14-17, 2019 (a vapor sample was collected on October 13, 2019), in accordance with the procedures outlined in the NYSDEC-approved November 2003 RDWP and the August 2010 letter. October 2019 groundwater samples were collected from eight monitoring wells (MW-2, MW-3, MW-4, MW-8R, MW-11, MW-13D, MW-16S, MW-16D), the GWCT, and eight DPE wells (DPE-1, DPE-2, DPE-3, DPE-4, DPE-5, DPE-6, DPE-7, and DPE-8) (**Figure 2**). Note that MW-13S was dry and was not sampled. Field forms generated during this sampling event are provided in **Appendix A**. Groundwater samples were analyzed for VOCs by Eurofins TestAmerica Laboratories, Inc. (Amherst, New York) using United States Environmental Protection Agency (EPA) SW-846 Method 8260C. Four wells (MW-4, MW-8R, MW-16S, and MW-16D) were also sampled for total organic carbon (TOC) and monitored natural attenuation (MNA) parameters (note MW-13S was not included in the TOC and MNA analysis as scheduled because the piezometer was dry). MNA samples were analyzed by Eurofins TestAmerica Laboratories, Inc. (Amherst, New York). In addition, two wells (MW-4 and MW-16S) were sampled for DHC, tceA Reductase, BAV1 VC Reductase, and VC Reductase by Microbial Insights, Inc. (Knoxville, Tennessee).

Prior to the collection of groundwater samples, a complete round of groundwater levels was measured in all site wells and piezometers. **Table 2** provides a summary of groundwater elevations measured on October 14, 2019. A summary of current and historical groundwater levels and corresponding elevations and hydrographs for each active monitoring well and nested piezometer pair is provided in **Appendix B**. Monitoring well MW-2 is screened across the shallow overburden groundwater zone while MW-3, MW-4, MW-8R, MW-9, and MW-11 are screened across both the shallow and deep overburden groundwater zones. The nested piezometer pairs (MW-13S/D, MW-14S/D, MW-15S/D, and MW-16S/D) are discretely screened with one piezometer screened in the shallow overburden groundwater zone ('S' designation) and one piezometer screened in the deep overburden groundwater zone ('D' designation). DPE wells DPE-1, DPE-3, DPE-5, DPE-6, and DPE-8 are screened in the shallow water-bearing unit, while DPE-2, DPE-4, and DPE-7 are screened in the deep water-bearing unit. The GWCT is installed in the deep overburden water-bearing unit.

Two groundwater surface contour maps for October 2019 are provided. The average water levels calculated for the nested piezometer pairs and monitoring wells, in conjunction with GWCT water level data, were used to generate the groundwater surface contours presented in **Figure 4**. **Figure**

5 illustrates the groundwater surface contours using only monitoring well and deep piezometer and GWCT water level data.

Groundwater elevations measured from monitoring wells and piezometers on October 14, 2019 ranged from 685.85 feet above mean sea level (AMSL) at MW-15S to 670.15 feet AMSL at MW-13S (note MW-13S was dry). The average groundwater surface elevation across the site was 0.48 feet higher when compared to the prior round of groundwater elevation measurements collected in July 2019. The increase in groundwater elevations may be attributable to seasonal variations. Note the DPE system was off line during the October 2019 groundwater sampling event to accommodate the November 2018 injection program; the GWCT was on-line during the October 2019 groundwater sampling event. Based on the October 2019 water level measurements, the groundwater surface beneath the Site continues to exhibit inward flow towards the GWCT. As **Figures 4 and 5** illustrate, the GWCT induces groundwater flow reversal along the western AVOX Plant 2 property boundary. This reversal in groundwater flow provides hydraulic capture of VOCs present in the shallow and deep overburden groundwater that might otherwise migrate off-site.

Groundwater Quality Results – October 2019

Tables 3, 4 and 5 summarize VOC data for groundwater samples collected in October 2019 from the monitoring wells and piezometers, DPE wells, and GWCT, respectively. The table below summarizes VOCs detected in groundwater above their detection limits, their respective concentration ranges, the number of detections, and the number of those detections that exceeded the site-specific Remedial Action Objectives (RAOs) or the guidance values in New York Code, Rules, and Regulations (NYCRR), Title 6, Parts 702.15(a)(2) and 703.5. Note that in some cases the detection limits for certain VOCs were set above their respective RAO's due to dilution factors (high concentration of target analyte[s]). Consistent with previous quarterly reports, the table below summarizes only monitoring wells and piezometers (GWCT and DPE well results are not included).

Groundwater Quality Results October 2019

VOCs Detected in Groundwater	Concentration Range (micrograms per liter)	Number of Detections	RAO/NYCRR Exceedances
Vinyl Chloride	1.9 – 32,000	6	4
Chloroethane	1.8 – 1,100	6	4
1,1-Dichloroethane	0.82 – 620	6	3
cis-1,2-Dichloroethene	1.8 – 14,000	6	2
Toluene	0.73 – 540	4	3
Acetone	4.0 – 86	4	1
2-Butanone	2.2 – 100	3	1
Methylene Chloride	670	1	1
Benzene	1.8	1	1
2-Hexanone	10	1	0
Chloromethane	0.39	1	0

Eleven VOCs were detected in groundwater from monitoring wells and piezometers sampled above their associated detection limits during the monitoring period. Nine of the eleven VOCs detected exceeded either the site-specific RAOs for groundwater or the NYCRR criteria. Note that acetone and methylene chloride, laboratory cleaning compounds, were detected in five of the eight samples.

The occurrences of constituents of potential concern were detected primarily in the vicinity of the former on-site source area. VOC concentrations decrease significantly in the vicinity of the perimeter monitoring wells.

An electronic copy of the analytical laboratory data package for the October 2019 groundwater monitoring event is provided in **Appendix C**. A complete hard copy of the analytical data report can be made available to NYSDEC upon request.

The presence and distribution of trichloroethene (TCE) degradation products cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride (VC), and of 1,1,1-trichloroethane (1,1,1-TCA) degradation products 1,1-dichloroethane (1,1-DCA) and chloroethane, provides supportive evidence that the attenuation of TCE and 1,1,1-TCA continues to occur on the site via reductive dechlorination. The occurrence of these degradation products appears to be directly related to the historic distribution of TCE and 1,1,1-TCA in the subsurface. In addition, the virtual elimination of TCE and 1,1,1-TCA concentrations between Third Quarter 2015 and the current reporting period can be attributed to the injection pilot test performed in November 2014 using the injectate Anaerobic BioChem and zero valent iron (ABC+®), the injection treatment in April/May 2015 using ABC+®, and the most recent injection treatment in November 2018 using ABC-Ole+® (ABC-Ole+® is a mixture of Anaerobic BioChem, zero valent iron, and emulsified fatty acids). For details of the injection programs, refer to the NYSDEC-approved 2014 Injection Pilot Test Work Plan dated November 6, 2014, the NYSDEC-approved 2015 addendum to the 2014 Injection Pilot Test Work Plan dated April 28, 2015, and the NYSDEC-approved 2018 Injection Pilot Test Work Plan dated October 31, 2018. A summary of the November 2018 injection program was included in the 2019 PRR (August 8, 2019).

Historical trend plots for the wells sampled during this quarter for concentrations of TCE, cis-1,2-DCE, VC, 1,1,1-TCA, 1,1-DCA, and chloroethane are provided in **Appendix D**. As stated above, the VOC concentrations in groundwater continue to show a degradation trend both as a result of naturally occurring reductive dechlorination processes, and as a result of the injection programs. Additionally, historical concentrations of VOCs in soil vapor and groundwater are also decreasing as a result of extraction and treatment through the combined DPE remediation system. Because TCE has been considered the primary source of groundwater contamination at the site, a summary of historical and current TCE concentrations in groundwater for six of the nine monitoring wells and piezometers sampled in October 2019 is included in **Table 6**. Recall that the DPE component of the combined remediation system was started May 14, 2004 and the injection of ABC+® occurred in November 2014 and April/May 2015, with a follow up injection of ABC-Ole+® in November 2018. In addition, a chemical oxidation injection pilot test was performed between July and October 2010, and a second series of chemical oxidation injections was performed between June and October 2011.

Table 6 shows a summary of historical and current TCE concentrations. Based on the October 2019 groundwater data, there were no detections of TCE in the monitoring wells and piezometers. It is important to note that the November 2014 injections were centered on MW-4 and MW-8R, while the April/May 2015 and November 2018 injections included an expanded area which also included MW-13S/D and MW-16S/D. Overall, decreases in TCE concentrations observed since the combined DPE groundwater remediation system was installed in May 2004 indicate that the system continues to reduce VOC concentrations in overburden groundwater and soil at the site. Based on the decrease in concentration of TCE at these locations, as well as other locations with historical detections of TCE, the previous injections appear to be contributing to the ongoing degradation of TCE. This is most clearly demonstrated on the TCE trend plots in **Figures 6 through 9** for monitoring wells MW-4, MW-8R, MW-13S, and MW-16S.

Bioattenuation Screening Summary

The *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater* (USEPA, 1998) presents analytical parameters and weighting criteria that can be used for the preliminary screening of bioattenuation (natural attenuation via reductive dechlorination) for a site. The screening process is designed to recognize geochemical environments where reductive dechlorination is possible. Field and geochemical indicator parameters measured in October 2019 were used to conduct this screening for the Site groundwater plume. **Table 7** presents a summary of the parameters, screening criteria, and scores for the four monitoring wells that were analyzed for MNA parameters in October 2019 (note results for MW-13S are also included but the well was not sampled in July 2019 and October 2019 because it was dry). Previous results are also shown for comparison purposes. Note that the October/November 2018 results were from samples collected prior to the November 2018 ABC-Ole+® injection event (i.e., baseline samples).

Based on the October 2019 sampling results, MW-4, MW-8R, MW-16S, and MW-16D continue to have a total score indicating “strong evidence for anaerobic biodegradation”. Three of the wells have a total score in excess of their October/November 2018 baseline scores. Only MW-16S has a score that is less than its baseline score. This may indicate that conditions are becoming less conducive for reductive dechlorination to occur; however, conditions remain in place for reductive dechlorination to occur.

Dechlorinating Bacteria Analysis

On September 20, 2019, AECOM deployed two “Bio-traps”, one each at MW-4 and MW-16S, to determine the concentration (i.e., cells/bead) of dechlorinating bacteria. On October 17, 2019, AECOM extracted the two “Bio-traps” and submitted them to Microbial Insights, Inc.; refer to **Appendix C** for the associated laboratory report.

Per the analysis, MW-16S, the well with the historic highest CVOC concentrations, had counts of greater than 10^4 cells per milliliter of *Dehalococcoides*, tceA Reductase, and VC Reductase. While these counts are less for *Dehalococcoides* and tceA Reductase than what was measured in 2016, they continue to remain in the range for reductive dechlorination to occur at MW-16S. The October 2019 counts for MW-4 were all at least two orders of magnitude less than the January 2016 results. While these numbers indicate relatively low bacteria activity in the vicinity of this well, they do not preclude the possibility for reductive dechlorination to occur. Refer to the table below for dechlorinating bacteria and enzyme results from January 4, 2016 and October 17, 2019.

Sample ID	MW-4	MW-4	MW-16S	MW-16S
Sample Date	1/4/16	10/17/19	1/4/16	10/17/19
Dechlorinating Bacteria (Cells/bead)				
<i>Dehalococcoides</i>	5.36×10^5	4.42×10^3	2.28×10^6	8.04×10^5
tceA Reductase	1.63×10^4	1.54×10^2	1.02×10^5	6.35×10^4
BAV1 VC Reductase	2.80×10^4	$< 2.50 \times 10^1$	6.80×10^4	8.65×10^2
VC Reductase	4.81×10^4	6.18×10^1	2.07×10^4	3.20×10^4

Total Organic Carbon

The detection of TOC is indicative of the presence of natural organic material available for microbial degradation and/or of substrate distribution if a carbon source has been injected into the aquifer to promote reductive dechlorination. Because chlorinated aliphatic hydrocarbons such as TCE are used as electron acceptors during reductive dechlorination, there must be an appropriate source of carbon (natural and/or anthropogenic) present for microbial growth to occur. TOC concentrations greater

than 20 milligrams per liter (mg/L) are generally necessary for robust reductive dechlorination to occur.

In October 2019, samples were collected for TOC analysis from four locations (MW-4, MW-8R, MW-16S, and MW-16D) to monitor the concentration of available carbon sources for optimum microbial growth. TOC concentrations in MW-4, MW-8R, and MW-16S continue to remain well above the 20 mg/L threshold. In MW-16D, the TOC concentration continues to remain below optimal. Refer to **Table 7** for a summary of TOC concentrations in October 2019.

Quarterly Combined DPE Remediation System Vapor Effluent Monitoring Activities – October 2019

AECOM personnel attempted to collect a vapor effluent sample from the groundwater remediation system vapor discharge stack on October 13, 2019, but because the DPE system was off-line to accommodate the November 2018 injection program, an air sample was not collected from the DPE vacuum pump discharge stack. A Summa canister was used to collect the vapor sample from the permanent sample port located on the air stripper (AS) discharge stack. **Figure 3** shows the location of the vapor sample port. The vapor sample was analyzed for VOCs using EPA Method TO-15 by TestAmerica Laboratories, Inc., Burlington, Vermont.

Combined DPE Remediation System Effluent Monitoring Results – October 2019

The system vapor effluent results are summarized in **Table 8**, and an electronic copy of the analytical laboratory data package is provided on the enclosed CD in **Appendix C**. Two VOCs were detected in the AS unit effluent; the total VOCs discharged were 96.5 micrograms per cubic meter. The calculated VOC discharge-loading rate for the GWCT remediation system was approximately 0.00002 pounds per hour (lb/hr), which is well below the NYSDEC discharge guidance value of 0.5 lb/hr.

Combined DPE Remediation System Operation and Maintenance

During the reporting period, AECOM monitored system performance, conducted routine O&M, and responded to potential system alarms and periodic breakdowns of the combined DPE remediation system. No issues were observed with the combined DPE remediation system during the reporting period.

Based on a system operational period from July 22, 2019 (Third Quarter BSA compliance sampling event) to October 13, 2019 (Fourth Quarter BSA compliance sampling event), the estimated total volume of groundwater treated and discharged by the AS unit to the local sanitary sewer was 113,871 gallons, at an average flow rate of 0.95 gallons per minute. Note: the DPE remedial system was off-line during the sampling event to accommodate the November 2018 injection program; the GWCT was on-line.

Summary

The DPE was taken off-line on November 26, 2018 to accommodate the injection of ABC-Ole+® and remained off-line during the Fourth Quarter 2019 sampling event; the GWCT was fully operational during the Fourth Quarter 2019 sampling event. TCE was not detected above its RAO in site perimeter monitoring wells MW-2, MW-3, and MW-11. Following the November 2014 injection pilot test, and the subsequent April/May 2015 and November 2018 injection treatments, significant reductions in TCE concentrations have been measured at MW-4, MW-8R, MW-13S, and MW-16S.

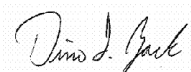
Based on the results of the October 2019 sampling event, the combined GWCT system continues to maintain hydraulic capture of the overburden groundwater. In addition, the system continues to

make progress towards the reduction of the concentration of VOCs present in site soil and groundwater. Vapor emissions produced by the system during the Fourth Quarter 2019 event were well below than the NYSDEC discharge guidance value of 0.5 lb/hr.

The next monitoring event, the quarterly sampling event, is planned for January 2020; a list of the monitoring wells and piezometers to be sampled is included in **Table 1**.

If you have any questions regarding this submission, please do not hesitate to contact me at (716) 923-1125 or via e-mail at dino.zack@aecom.com.

Yours sincerely,



Dino L. Zack, PG, STS
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\Enclosures

cc: Stuart Rixman, GSF Management Company LLC (Electronic copy)
 Troy Chute, GSF Management Company LLC (Electronic copy)
 Christopher Bourne, AVOX Systems Inc. (Electronic Copy)
 AECOM Project 60538931 File (Electronic Copy)

Tables

Table 1

**Proposed Groundwater Monitoring Schedule - January 2020 through October 2020
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Event Date	Number of Locations Scheduled for Sampling	Locations Scheduled for Sampling			
Quarterly Groundwater Monitoring					
January 2020	18	MW-2 MW-11 MW-16D* DPE-4 DPE-8	MW-3 MW-13S* DPE-1 DPE-5 GWCT	MW-4* MW-13D DPE-2 DPE-6	MW-8R* MW-16S* DPE-3 DPE-7
Comprehensive Annual Groundwater Monitoring					
April 2020	23	MW-2 MW-9 MW-14S MW-16S DPE-3 DPE-7	MW-3 MW-11 MW-14D MW-16D DPE-4 DPE-8	MW-4 MW-13S MW-15S DPE-1 DPE-5 GWCT	MW-8R MW-13D MW-15D DPE-2 DPE-6
Quarterly Groundwater Monitoring					
July 2020	18	MW-2 MW-11 MW-16D DPE-4 DPE-8	MW-3 MW-13S DPE-1 DPE-5 GWCT	MW-4 MW-13D DPE-2 DPE-6	MW-8R MW-16S DPE-3 DPE-7
October 2020	18	MW-2 MW-11 MW-16D DPE-4 DPE-8	MW-3 MW-13S DPE-1 DPE-5 GWCT	MW-4 MW-13D DPE-2 DPE-6	MW-8R MW-16S DPE-3 DPE-7

Notes:

MW-## - Monitoring Well

MW-##S - Shallow Piezometer

MW-##D - Deep Piezometer

DPE-## - Dual Phase Extraction Well

GWCT - Groundwater Collection Trench

* - Locations to be included for MNA sampling

Table 2

Quarterly Groundwater Monitoring Water Level Data - October 14, 2019
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York

Monitoring Point Identification	Top of Casing Elevation (feet AMSL)	Depth to Water (feet from TOC)	Ground Water Elevation (feet AMSL)
Monitoring Wells			
MW-2	688.62	7.56	681.06
MW-3	687.05	8.61	678.44
MW-4	686.50	8.39	678.11
MW-8R	686.29	9.91	676.38
MW-9	689.57	11.83	677.74
MW-11	688.61	11.59	677.02
Nested Piezometers			
MW-13S	686.65	16.50	670.15
MW-13D	686.78	8.87	677.91
MW-14S	685.74	5.14	680.60
MW-14D	685.88	11.88	674.00
MW-15S	687.17	1.32	685.85
MW-15D	687.87	11.97	675.90
MW-16S	688.15	6.02	682.13
MW-16D	688.16	11.32	676.84
Remedial System			
GWCT Manhole (rim)	687.22	21.65	665.57
DPE Wells			
DPE-1	687.17	3.05	684.12
DPE-2	685.32	10.63	674.69
DPE-3	685.98	2.54	683.44
DPE-4	686.00	3.94	682.06
DPE-5	686.91	5.42	681.49
DPE-6	687.53	1.15	686.38
DPE-7	685.92	9.18	676.74
DPE-8	686.03	1.61	684.42

Notes:

TOC - Top of Casing

AMSL - Above Mean Sea Level

GWCT - Groundwater Collection Trench

GWCT is 200 feet long with a 0.01 foot/foot slope to the collection manhole

Locations re-surveyed on February 23, 2016

Table 3

**Summary of October 2019 Analytical Data
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Sample ID	Groundwater	MW-2	MW-3	MW-4	MW-8R	MW-11	MW-13D	MW-16S	MW-16D
Date Collected	RAO/NYCRR	10/15/19	10/15/19	10/17/19	10/15/19	10/15/19	10/15/19	10/17/19	10/17/19
Lab Sample ID	Objective	480-160850-2	480-160850-3	480-161048-1	480-160850-1	480-160850-4	480-160850-5	480-161146-1	480-161048-2
Volatile Organic Compounds by Method 8260 (µg/L)									
1,1-Dichloroethane	5*	< 1.0 U	15	2.7 J	19	0.82 J	< 1.0 U	620 J	1.3
2-Butanone (MEK)	50	< 10 U	< 10 U	100	30 J	< 10 U	2.2 J	< 10,000 U	< 10 U
2-Hexanone	50	< 5.0 U	< 5.0 U	10 J	< 50 U	< 5.0 U	< 5.0 U	< 5,000 U	< 5.0 U
Acetone	50	< 10 U	< 10 U	86	40 J	< 10 U	12	< 10,000 U	4.0 J
Benzene	1	< 1.0 U	< 1.0 U	1.8 J	< 10 U	< 1.0 U	< 1.0 U	< 1,000 U	< 1.0 U
Chloroethane	5*	< 1.0 U	1.8	120	24	< 1.0 U	4.5	1,100	76
Chloromethane	5	< 1.0 U	< 1.0 U	< 4.0 U	< 10 U	< 1.0 U	< 1.0 U	< 1,000 U	0.39 J
cis-1,2-Dichloroethene	5*	< 1.0 U	3.2	4.6	370	1.9	< 1.0 U	14,000	1.8
Methylene Chloride	5	< 1.0 U	< 1.0 U	< 4.0 U	< 10 U	< 1.0 U	< 1.0 U	670 J	< 1.0 U
Toluene	5*	< 1.0 U	< 1.0 U	8.3	23	< 1.0 U	0.73 J	540 J	< 1.0 U
Vinyl chloride	5*	< 1.0 U	34	14	620	1.9	< 1.0 U	32,000	2.3
Total Volatile Organic Compounds	NL	0.0	54.0	347.4	1,126	4.6	19.4	48,930	85.8

Table 4

**Summary of Dual Phase Extraction Well Groundwater Analytical Data
Former Scott Aviation Facility - West of Plant 2
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Sample ID Date Collected Lab Sample ID	Groundwater RAO/ NYCRR Objective	DPE-1 04/17/14 480-58303-1	DPE-1 04/06/16 480-97989-10	DPE-1 07/06/16 480-102662-9	DPE-1 10/27/16 480-108538-3	DPE-1 01/16/17 480-112334-10	DPE-1 04/18/17 480-116720-17	DPE-1 07/11/17 480-121042-17	DPE-1 10/19/17 480-126348-2	DPE-1 01/10/18 480-129995-14	DPE-1 07/22/19 480-156622-8	DPE-1 10/14/19 480-160839-8
Volatile Organic Compounds by Method 8260 (µg/L)												
1,1,1-Trichloroethane	5*	10 U	20 U	10 U	5.0 U	20 U	7.7	1.0 U	1.0 U	1.0 U	10 U	20 U
1,1-Dichloroethane	5*	69	130	10 U	21	20	5.0 U	2.8	2.4	67	10 U	78
1,1-Dichloroethene	5	10 U	20 U	10 U	5.0 U	20 U	5.0 U	1.0 U	1.0 U	0.98 J	10 U	20 U
1,2-Dichloroethane	0.6	10 U	20 U	10 U	1.1 J	20 U	5.0 U	1.0 U	1.0 U	1.0 U	10 U	20 U
2-Butanone (MEK)	50	140	200 U	100 U	24 J	200 U	50 U	10	33 J	58	100 U	200 U
2-Hexanone	50	50 U	100 U	50 U	25 U	100 U	25 U	5.0 U	5.0 U	2.6 J	50 U	100 U
Ethylbenzene	5	10 U	20 U	10 U	5.0 U	20 U	5.0 U	1.0 U	0.51 J	2.3	10 U	20 U
Acetone	50	310	200 U	100 U	64	65 J	50 U	36	84	160	36 J	83 J
Benzene	1	10 U	20 U	10 U	5.0 U	20 U	5.0 U	1.0 U	1.0 U	1.6	10 U	20 U
Carbon Disulfide	60	10 U	20 U	10 U	5.0 U	20 U	5.0 U	1.0 U	5.7	1.0	10 U	20 U
Chloroethane	5*	15	20 U	10 U	9.2	15 J	24	4.1	7.6	20	10 U	20 U
Chloromethane	5	10 U	18 J	10 U	5.0 U	20 U	5.0 U	1.0 U	1.0 U	1.0 U	10 U	20 U
cis-1,2-Dichloroethene	5*	71	130	10 U	25	16 J	12	2.4	5.3	58	10 U	73
Methylene Chloride	5	10 U	20 U	10 U	4.3 J	20 U	5.0 U	1.0 U	5.0 U	1.0 U	10 U	24
Toluene	5*	18	29	10 U	5.7	20 U	3.8 J	0.74 J	3.6	14	10 U	13 J
trans-1,2-Dichloroethene	5	10 U	20 U	10 U	5.0 U	20 U	5.0 U	1.0 U	1.0 U	1.0	10 U	20 U
Trichloroethene	5*	23	18 J	10 U	4.7 J	20 U	1.3 J	1.0 U	1.0 U	10	10 U	20 U
Vinyl chloride	5*	15	31	10 U	6.8	20 U	5.0 U	1.0 U	1.1	15	10 U	20
Xylenes, Total	5	20 U	40 U	20 U	10 U	40 U	10 U	2.0 U	2.0 U	6.9	20 U	40 U

Notes:

The DPE system was put back on line following the third quarter 2016 sampling event.

The injection of ABC-[®] occurred in November 2014 and April/May 2015.

The injection of ABC-Ole[®] with ZVI occurred in November 2018.

Bold font indicates the analyte was detected.

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* Site-specific RAO per ROD (November 1994)

J - Analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit; concentrations estimated.

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NS - Not sampled.

Table 4

**Summary of Dual Phase Extraction Well Groundwater Analytical Data
Former Scott Aviation Facility - West of Plant 2
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Sample ID Date Collected Lab Sample ID	Groundwater RAO/ NYCRR Objective	DPE-2 04/17/14 480-58303-6	DPE-2 04/06/16 480-97989-11	DPE-2 07/06/16 480-102662-8	DPE-2 01/16/17 480-112334-11	DPE-2 04/18/17 480-116720-18	DPE-2 07/11/17 480-121042-18	DPE-2 10/23/17 480-126420-7	DPE-2 01/10/18 480-129995-15	DPE-2 04/13/18 480-134234-2	DPE-2 07/12/18 480-138781-7	DPE-2 10/25/18 480-144170-18	DPE-2 01/09/19 480-147748-18	DPE-2 04/08/19 480-151560-7	DPE-2 07/22/19 480-156622-1	DPE-2 10/14/01 480-160839-9
Volatile Organic Compounds by Method 8260 (µg/L)																
1,1-Dichloroethane	5*	4.4	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.49 J	1.0 U	0.65 J	2.0 U	2.0 U	1.0 U
2-Butanone (MEK)	50	50 U	50 U	50 U	3.2 J	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U
Acetone	50	50 U	50 U	50 U	10 U	50 U	6.0 J	3.4 J	10 U	10 U	10 U	3.2 J	10 U	20 U	20 U	10 U
Benzene	1	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.47 J	2.0 U	2.0 U	1.0 U
Carbon Disulfide	60	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	0.33 J	1.0 U	1.0 U	1.0 U	1.0 U	0.32 J	1.0 U	2.0 U	2.0 U	1.0 U
Chloroethane	5*	5.0 U	5.0 U	5.0 U	2.5	3.5 J	1.0 U	1.0 U	1.0 U	1.0 U	2.7	3.5	11	16	13	1.0 U
Chloromethane	5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.7	3.2 J	11	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U
cis-1,2-Dichloroethene	5*	240	5.0 U	5.0 U	1.0 U	2.4 J	1.0 U	1.0 U	1.0 U	1.0 U	1.1	1.1	1.0 U	2.0 U	2.0 U	1.0 U
Methylene Chloride	5	5.0 U	5.0 U	5.0 U	0.51 J	5.0 U	1.0 U	1.0 U	5.2	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U
Trichloroethene	5*	5.9	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U
Vinyl chloride	5*	54	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	0.85 J	1.7	1.0 U	9.9	4.2	11	2.0 U	2.0 U	1.0 U

Notes:

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Table 4

**Summary of Dual Phase Extraction Well Groundwater Analytical Data
Former Scott Aviation Facility - West of Plant 2
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Sample ID Date Collected Lab Sample ID	Groundwater RAO/ NYCRR Objective	DPE-3 04/17/14 480-58303-2	DPE-3 07/24/15 480-84562-16	DPE-3 10/21/15 480-89674-15	DPE-3 04/06/16 480-97989-12	DPE-3 07/07/16 480-102624-3	DPE-3 10/27/16 480-108538-4	DPE-3 01/16/17 480-112334-12	DPE-3 04/18/17 480-116720-19	DPE-3 07/11/17 480-121042-19	DPE-3 10/24/17 480-126420-15	DPE-3 04/13/18 480-134234-2	DPE-3 07/12/18 480-138781-8	DPE-3 10/25/18 480-144170-19	DPE-3 01/09/19 480-147748-19	DPE-3 04/08/19 480-151560-8	DPE-3 10/14/19 480-160839-1
Volatile Organic Compounds by Method 8260 (µg/L)																	
1,1,1-Trichloroethane	5*	43	10 U	20 U	5.0 U	10 U	5.0 U	20 U	5.4	20 U	20 U	25 U	10 U	11	100 U	20 U	10
1,1-Dichloroethane	5*	42	24	20 U	5.0 U	10 U	5.0 U	20 U	14	92	34	25 U	15	88	180	18 J	10
1,1-Dichloroethene	5	26	3.1 J	20 U	5.0 U	10 U	5.0 U	20 U	20	53	11 J	25 U	3.5 J	38 J	100 U	20 U	10
2-Butanone (MEK)	50	100 U	610	220	50 U	100 U	50 U	200 U	10	200 U	1,000 U	250 U	100 U	1,000 U	200 U	100	100
Acetone	50	50 U	110	110 J	50 U	100 U	50 U	200 U	28	200 U	500 U	250 U	100 U	37 J	1,000 U	200 U	63 J
Carbon Disulfide	60	10 U	10 U	20 U	5.0 U	10 U	5.0 U	20 U	0.5 J	20 U	20 U	25 U	10 U	10 U	100 U	20 U	10
Chloroethane	5*	10 U	23	20 U	5.0 U	10 U	5.0 U	20 U	6.5	20 U	14 J	25 U	10 U	10 U	100 U	20 U	16
cis-1,2-Dichloroethene	5*	2,700	650	70	18	8.7 J	5.0 U	20 U	4,300	11,000	1,700	78	740	10,000	6,400	150	19
Methylene Chloride	5	10 U	6.1 J	20 U	7.5	10 U	5.0 U	20 U	1.0 U	20 U	100 U	25 U	10 U	10 U	100 U	20 U	10
Toluene	5*	8.0 J	8.4 J	20 U	5.0 U	10 U	5.0 U	20 U	4.1	12 J	20 U	25 U	10 U	40	100 U	15 J	5.3 J
trans-1,2-Dichloroethene	5	10 U	10 U	20 U	5.0 U	10 U	5.0 U	20 U	68	22	19 J	25 U	10 U	11	100 U	20 U	10
Trichloroethene	5*	6,500	10 U	20 U	5.0 U	10 U	3.1 J	20 U	190	69	430	25 U	31	120	100 U	20 U	10
Vinyl chloride	5*	120	240	20 U	12	43	10	45	480	10,000	430	35	360	2,700	9,100	430	29

Notes:

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Table 4

**Summary of Dual Phase Extraction Well Groundwater Analytical Data
Former Scott Aviation Facility - West of Plant 2
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Sample ID Date Collected Lab Sample ID	Groundwater RAO/ NYCRR Objective	DPE-4 04/17/14 480-58303-3	DPE-4 07/24/15 480-84562-17	DPE-4 10/21/15 480-89674-16	DPE-4 07/06/16 480-102662-10	DPE-4 10/27/16 480-108538-5	DPE-4 01/16/17 480-112334-13	DPE-4 04/18/17 480-116720-20	DPE-4 10/23/17 480-126420-8	DPE-4 01/10/18 480-12995-16	DPE-4 04/13/18 480-134234-4	DPE-4 07/12/18 480-138781-9	DPE-4 10/25/18 480-144170-20	DPE-4 01/09/19 480-147748-20	DPE-4 04/08/19 480-151560-9	DPE-4 07/22/19 480-156622-2	DPE-4 10/14/19 480-160839-2
Volatile Organic Compounds by Method 8260 (µg/L)																	
1,1,1-Trichloroethane	5*	10 U	10 U	100 U	400 U	1.0 U	100 U	20 U	50 U	50 U	10 U	10 U	1.0 U	8.0 U	1.2	3.0	10 U
1,1-Dichloroethane	5*	8.1	130	450	400 U	2.5	100 U	20	22 J	50 U	10 U	8.4 J	1.0 U	8.0 U	10	9.5	14
1,1-Dichloroethene	5	10 U	30	460	400 U	1.0 U	100 U	17 J	34 J	50 U	10 U	7.0 J	1.0 U	8.0 U	1.0 U	0.51 J	10 U
1,2-Dichloroethane	0.6	10 U	2.2 J	100 U	400 U	1.0 U	100 U	20 U	50 U	50 U	10 U	10 U	0.65 J	15	1.0 U	1.0 U	10 U
2-Butanone (MEK)	50	50 U	65 J	1,000 U	4,000 U	10 U	1,000 U	200 U	2,500 U	500 U	100 U	100 U	10 U	80 U	2.7 J	5.7 J	100 U
Acetone	50	50 U	46 J	1,000 U	4,000 U	6.9 J	1,000 U	200 U	1,300 U	190 J	100 U	100 U	10 U	80 U	5.9 J	16	100 U
Carbon Disulfide	60	10 U	3.4 J	100 U	400 U	2.1	100 U	20 U	50 U	50 U	10 U	10 U	1.0 U	8.0 U	0.96 J	0.36 J	10 U
Chloroethane	5*	10 U	49	110	400 U	4.6	100 U	8 J	50 U	50 U	10 U	10 U	1.0 U	8.0 U	2.5	2.6	10 U
Chloromethane	5	10 U	10 U	230	400 U	1.0 U	100 U	20 U	50 U	50 U	10 U	10 U	1.0 U	8.0 U	1.0 U	1.0 U	10 U
cis-1,2-Dichloroethene	5*	510	30,000	130,000	25,000	130	4,300	4,400	6,000	2,100	320	2,600	29	48	28	130	87
Methylene Chloride	5	10 U	8.1 J	100 U	250 J	5.7 J	81 J	20 U	250 U	320	10 U	10 U	1.0 U	8.0 U	1.0 U	1.0 U	12
Toluene	5*	10 U	28	140	400 U	1.0 U	100 U	7 J	50 U	50 U	10 U	10 U	1.0 U	8.0 U	1.8	0.84 J	10 U
trans-1,2-Dichloroethene	5	10 U	36	100 U	400 U	1.0 U	100 U	76	50 U	50 U	10 U	10 U	1.0 U	8.0 U	1.1	1.4	10 U
Trichloroethene	5*	630	93	120	400	1.4	100 U	120	13 J	47 J	10 U	34	1.0 U	8.0 U	1.9	18	10 U
Vinyl chloride	5*	31	4,700	37,000	12,000	44	1,100	1,400	3,700	430	62	810	18	500	20	79	34

Notes:

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Table 4

**Summary of Dual Phase Extraction Well Groundwater Analytical Data
Former Scott Aviation Facility - West of Plant 2
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Sample ID	Groundwater	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5	DPE-5
Date Collected	RAOI/ NYCRR	04/17/14	07/24/15	10/21/15	07/06/16	10/27/16	01/16/17	04/18/17	07/11/17	10/19/17	01/10/18	04/13/18	07/12/18	10/25/18	01/09/19	04/08/19	07/22/19	10/14/19
Lab Sample ID	Objective	480-58303-4	480-84562-18	480-89674-17	480-102662-13	480-108538-6	480-112334-14	480-116720-21	480-121042-21	480-126348-1	480-129995-17	480-134234-5	480-138781-10	480-144170-21	480-147748-20	480-151586-8	480-156622-3	480-160839-3
Volatile Organic Compounds by Method 8260 (µg/L)																		
1,1-Dichloroethane	5*	160	30	59	17	110	150	44	45	100	66	140	87	50 U	35	22	6.5	10 U
1,1-Dichloroethane	5	2.9 J	10 U	10 U	10 U	10 U	82	20 U	8.0 U	1.0 U	10 U	15 J	50 U	50 U	10 U	10 U	1.0 U	10 U
1,2-Dichloroethane	0.6	10 U	10 U	10 U	10 U	9.3 J	50 U	20 U	8.0 U	1.0 U	10 U	40 U	50 U	50 U	10 U	10 U	1.0 U	10 U
2-Butanone (MEK)	50	26 J	330	660	78 J	100 U	500 U	200 U	80 U	240	21 J	400 U	500 U	500 U	20 J	39 J	54	100 U
2-Hexanone	50	50 U	50 U	50 U	50 U	50 U	50 U	100 U	40 U	5.0 U	50 U	200 U	250 U	250 U	50 U	50 U	5.8	50 U
Ethylbenzene	5	10 U	10 U	10 U	10 U	10 U	50 U	20 U	8.0 U	1.8 U	10 U	40 U	50 U	50 U	10 U	10 U	1.0	10 U
Acetone	50	120	240	340	120	180	160 J	200 U	200	25 U	90 J	120 J	500 U	500 U	40 J	91 J	160	32 J
Benzene	1	10 U	10 U	10 U	10 U	10 U	50 U	20 U	8.0 U	0.62 J	10 J	40 J	50 U	50 U	10 J	10 J	1.0	10 U
Carbon Disulfide	60	10 U	51 U	10 U	10 U	10 U	50 U	20 U	12	3.0	3.1 J	40 J	50 U	50 U	3.1 J	10 U	1.5	10 U
Chloroethane	5*	46	51	81	87	120	130	38	60	84	80	150	100	50 U	32	68	86	53
cis-1,2-Dichloroethene	5*	320	410	610	120	2,800	33,000	2,000	290	1,400	480	3,500	2,100	1,100	830	230	52	10 U
Methylene Chloride	5	10 U	4.5 J	10 U	10 U	10 U	26 J	20 U	8.0 U	5.0 U	10 U	40 U	50 U	50 U	10 U	10 U	1.0 U	9.1 J
Toluene	5*	30	11	9.2	10 U	12	37 J	7.8 J	8.0 U	5.7	9.6 J	20 J	50 U	50 U	6.4 J	6.6 J	5.5	10 U
trans-1,2-Dichloroethene	5	10 U	11	20	10 U	10 U	10 U	24	8.0 U	22	10	40 U	50 U	50 U	10	10 U	2.1	10 U
Trichloroethene	5*	160	10 U	10 U	10 U	14	250	5.5 J	8.0 U	1.0 U	6.7 J	40 U	50 U	50 U	8.5 J	6.2 J	4.9	10 U
Vinyl chloride	5*	71	180	170	71	1,600	6,400	570	190	1,600	250	2,200	1,700	660	410	39	53	10 U
Xylenes, Total	5	50 U	50 U	50 U	50 U	50 U	50 U	100 U	40 U	2.3 J	20 U	80 U	100 U	100 U	20 U	20 U	3.4	20 U

Notes:

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Table 4

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Former Scott Aviation Facility - West of Plant 2
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Sample ID Date Collected Lab Sample ID	Groundwater RAO/ NYCRR Objective	DPE-6 10/25/18 480-144170-4	DPE-6 01/09/19 480-147748-20	DPE-6 04/08/19 480-151586-4	DPE-6 07/22/19 480-156622-4	DPE-6 10/14/19 480-160839-4
Volatile Organic Compounds by Method 8260 (µg/L)						
1,1-Dichloroethane	5*	700	13	5.9	0.81 J	1.0 U
1,1-Dichloroethene	5	47 J	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	380	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (MIBK)	NL	42 J	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50	1,700	10 U	10 U	10 U	10 U
Carbon Disulfide	60	20 U	1.0 U	1.0 U	0.20 J	1.0 U
cis-1,2-Dichloroethene	5*	310	7.2	4.3	1.0	1.0 U
Methylene Chloride	5	12 J	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5*	13 J	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5*	17 J	1.3	1.1	0.51 J	1.0 U
Vinyl chloride	5*	180	3.3	1.0	1.0 U	1.0 U

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NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Sample ID	Groundwater RAO/ NYCRR Objective	DPE-7 04/17/14 480-58303-5	DPE-7 07/24/15 480-84562-19	DPE-7 10/21/15 480-89674-18	DPE-7 07/07/16 480-102824-4	DPE-7 10/27/16 480-108538-7	DPE-7 01/16/17 480-112334-15	DPE-7 04/18/17 480-116720-23	DPE-7 07/11/17 480-121042-22	DPE-7 10/23/17 480-126420-5	DPE-7 01/10/18 480-129995-18	DPE-7 04/13/18 480-134234-6	DPE-7 07/12/18 480-138781-11	DPE-7 10/25/18 480-144170-5	DPE-7 01/09/19 480-147748-5	DPE-7 04/08/19 480-151586-5	DPE-7 07/22/19 480-156622-5	DPE-7 10/14/19 480-160839-5
Volatile Organic Compounds by Method 8260 (µg/L)																		
1,1-Dichloroethane	5*	460	250	390	63	20 U	91	120	45	67	10 U	65	28	10 U	2.0 U	1.8 J	0.88 J	40 U
1,1-Dichloroethene	5	47 J	12 J	20 U	20 U	20 U	20 U	0.48 J	20 U	1.0 U	10 U	20 U	10 U	10 U	2.0 U	2.0 U	2.0 U	40 U
1,2-Dichloroethane	0.6	10 U	20 U	20 U	20 U	20 U	20 U	0.41 J	20 U	1.0 U	10 U	20 U	10 U	10 U	7.7	2.0 U	2.0 U	40 U
2-Butanone (MEK)	50	50 U	150 J	940	530	210	270	280	120 J	67	100 U	130 J	50 J	18 J	25	11 J	21	400 U
2-Hexanone	50	50 U	100 U	100 U	100 U	100 U	100 U	5.0 U	100 U	5.0 U	50 U	100 U	50 U	50 U	6.9 J	10 U	6.2 J	200 U
Acetone	50	50 U	1,100	530	230	130 J	140 J	150	130 J	30	100 U	81 J	37 J	100 U	23	17 J	38	400 U
Benzene	1	10 U	20 U	20 U	20 U	20 U	20 U	1.0	20 U	0.66 J	10 U	20 U	10 U	10 U	2.0 U	2.0 U	2.0 U	40 U
Chloroethane	5*	11	27	260	260	110	530	360	450	340	340	390	320	190	120	87	28	40 U
cis-1,2-Dichloroethene	5*	11,000	820	680	26	27	20 U	67	20 U	1.3	10	20 U	10 U	10 U	56	25	12	40 U
Methylene Chloride	5	10 U	11 J	20 U	20 U	20 U	12 J	1.0 U	20 U	5.0 U	10 U	25	10 U	10 U	5.8 J	2.0 U	2.0 U	66
Toluene	5*	10 U	20 U	20 U	20 U	20 U	20 U	5.8	20 U	2.0	10 U	20 U	10 U	10 U	2.8	2.2	1.7	40 U
trans-1,2-Dichloroethene	5	10 U	20 U	20 U	20 U	20 U	20 U	4.1 J	20 U	1.3	10 U	20 U	10 U	10 U	2.0 U	2.0 U	2.0 U	40 U
Trichloroethene	5*	1,300	20 U	12 J	20 U	20 U	20 U	0.93 J	20 U	0.46 J	10 U	20 U	10 U	10 U	5.1	2.5	2.2	40 U
Vinyl chloride	5*	580	470	780	300	20 U	50	270	110	25	10 U	59	130	10 U	23	4.0	3.8	40 U

Notes:

The DPE system was put back on line following the third quarter 2016 sampling event.

The injection of ABC+® occurred in November 2014 and April/May 2015

The injection of ABC-Ole® with ZVI occurred in November 2018.

Bold font indicates the analyte was detected.

Bold font and bold outline indicates the screening criteria was exceeded.

* Site-specific RAO per ROD (November 1994)

J - Analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit; concentrations estimated.

U - Not detected at or above reporting limit.

NS - Not sampled.

Table 4

**Summary of Dual Phase Extraction Well Groundwater Analytical Data
Former Scott Aviation Facility - West of Plant 2
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Sample ID Date Collected Lab Sample ID	Groundwater RAO/ NYCRR Objective	DPE-8 07/24/15 480-84562-20	DPE-8 10/21/15 480-89674-19	DPE-8 07/07/16 480-102824-5	DPE-8 10/27/16 480-108538-1	DPE-8 01/16/17 480-112334-16	DPE-8 04/18/17 480-116720-24	DPE-8 07/11/17 480-121042-20	DPE-8 10/23/17 480-126420-6	DPE-8 01/10/18 480-129995-19	DPE-8 04/13/18 480-134234-7	DPE-8 07/12/18 480-138781-3	DPE-8 10/25/18 480-144170-5	DPE-8 01/09/19 480-147748-7	DPE-8 04/09/19 480-151586-8	DPE-8 07/22/19 480-156622-5	DPE-8 10/14/19 480-160839-6
Volatile Organic Compounds by Method 8260 (µg/L)																	
1,1,1-Trichloroethane	5*	57	170	39	21	170	55	100 U	4.8	20 U	75	30	20 U	20 U	20 U	20 U	20 U
1,1-Dichloroethane	5*	140	590	58	22	130	50 U	310	4.4	50	71	28	330	240	160	54	20 U
1,1-Dichloroethene	5	50 U	20	5.0 U	4.0 J	27 J	50 U	100 U	1.8	8.2 J	6.5 J	20 U	20 U	54	9.1 J	20 U	20 U
2-Butanone (MEK)	50	540	260	50 U	50 U	400 U	500 U	1,000 U	50 U	200 U	200 U	200 U	200 U	200 U	100 U	100 U	100 U
Acetone	50	890	220	50 U	50 U	400 U	500 U	1,000 U	25 U	200 U	200 U	200 U	200 U	200 U	200 U	70 J	200 U
Carbon Disulfide	60	50 U	11	5.0 U	5.0 U	40 U	50 U	51 J	1.0 U	20 U	20 U	20 U	8.5 J	20 U	20 U	20 U	20 U
Chloroethane	5*	50 U	54	44	12	40 U	50 U	100 U	1.8	22	30	20 U	62	20 U	110	53	20 U
cis-1,2-Dichloroethene	5*	1,500	2,300	5.0 U	850	4,100	4,800	8,500	110	540	1,600	1,000	19,000	10,000	850	430	20 U
Methylene Chloride	5	23 J	20 U	5.0 U	5.0 U	40 U	50 U	100 U	5.0 U	20 U	20 U	20 U	11 J	20 U	20 U	20 U	20 U
Toluene	5*	50 U	20 U	5.0 U	5.0 U	40 U	50 U	100 U	1.0 U	20 U	20 U	20 U	10 J	21	11 J	20 U	20 U
trans-1,2-Dichloroethene	5	50 U	55	8.1	5.0 U	40 U	57	100 U	0.99	20 U	20 U	20 U	34	27	24	20 U	20 U
Trichloroethene	5*	230	92	5.4	8.4	98	36 J	100 U	6.6	11 J	65 J	40	20 U	13 J	20 U	20 U	20 U
Vinyl chloride	5*	1,400	1,700	110	140	920	480	2,300	1.0 U	410	480	120	1,800	2,800	710	370	20 U

Notes:

The DPE system was put back on line following the third quarter 2016 sampling event.

The injection of ABC*® occurred in November 2014 and April/May 2015

The injection of ABC-Ole® with ZVI occurred in November 2018.

Bold font indicates the analyte was detected.

Bold font and bold outline indicates the screening criteria was exceeded.

* Site-specific RAO per ROD (November 1994)

J - Analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit; concentrations estimated.

U - Not detected at or above reporting limit.

NS - Not sampled.

Table 5

**Summary of Groundwater Collection Trench Analytical Data
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Sample ID Date Collected Lab Sample ID	Groundwater RAO/ NYCRR Objective	GWCT Manhole 07/24/15 480-84562-15	GWCT Manhole 10/19/15 480-89674-20	GWCT Manhole 01/05/16 480-93630-15	GWCT Manhole 04/04/16 480-84562-15	GWCT Manhole 07/05/16 480-102662-4	GWCT Manhole 10/27/16 480-108538-2	GWCT Manhole 01/16/17 480-112334-8
Volatile Organic Compounds by Method 8260 (µg/L)								
1,1-Dichloroethane	5*	1.3	0.7	< 1.0 U	0.4 J	< 1.0 U	< 1.0 U	< 1.0 U
2-Butanone (MEK)	50	2.4 J	< 10 U	< 10 U	< 10 U	< 1.0 U	< 1.0 U	< 1.0 U
Acetone	50	7.0 J	< 10 U	< 10 U	< 10 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon disulfide	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	5*	< 1.0 U	< 1.0 U	62	44	70	34	45
cis-1,2-Dichloroethene	5*	1.1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethylbenzene	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	5*	< 1.0 U	< 1.0 U	0.99 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl chloride	5*	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylenes, Total	5*	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Total Volatile Organic Compounds	NA	12.8	0.7	63	44	70	34	45

Table 5

**Summary of Groundwater Collection Trench Analytical Data
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Sample ID Date Collected Lab Sample ID	Groundwater RAO/ NYCRR Objective	GWCT Manhole 04/20/17 480-116720-15	GWCT Manhole 07/11/17 480-121042-15	GWCT Manhole 10/23/17 480-126420-1	GWCT Manhole 01/08/18 480-129995-13	GWCT Manhole 04/13/18 480-134234-8	GWCT Manhole 07/12/18 480-138781-4	GWCT Manhole 10/24/18 480-144170-15
Volatile Organic Compounds by Method 8260 (µg/L)								
1,1-Dichloroethane	5*	0.74 J	< 1.0 U	< 1.0 U	< 1.0 U	0.52 J	< 1.0 U	< 1.0 U
2-Butanone (MEK)	50	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Acetone	50	< 10 U	< 10 U	< 10 U	< 10 U	10 J	< 10 U	< 10 U
Carbon disulfide	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	5*	26	65	45	64	53	49	38
cis-1,2-Dichloroethene	5*	0.74 J	< 1.0 U	< 1.0 U	5.1	< 1.0 U	< 1.0 U	< 1.0 U
Ethylbenzene	5	< 1.0 U	< 1.0 U	0.19 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	5*	< 1.0 U	< 1.0 U	0.25 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	5	< 1.0 U	< 1.0 U	0.34 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl chloride	5*	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylenes, Total	5*	< 2.0 U	< 2.0 U	0.67 J	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Total Volatile Organic Compounds	NA	27	65	45	69	64	49	38

Table 5

**Summary of Groundwater Collection Trench Analytical Data
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Sample ID Date Collected Lab Sample ID	Groundwater RAO/ NYCRR Objective	GWCT Manhole 01/09/19 480-147748-15	GWCT Manhole 04/08/19 480-151586-12	GWCT Manhole 07/23/19 480-156622-7	GWCT Manhole 10/14/19 480-160839-7
Volatile Organic Compounds by Method 8260 (µg/L)					
1,1-Dichloroethane	5*	0.38 J	0.48 J	< 1.0 U	< 1.0 U
2-Butanone (MEK)	50	< 10 U	< 10 U	< 1.0 U	< 1.0 U
Acetone	50	< 10 U	< 10 U	< 1.0 U	< 1.0 U
Carbon disulfide	1	< 1.0 U	0.20 J	< 1.0 U	< 1.0 U
Chloroethane	5*	28	48	48	28
cis-1,2-Dichloroethene	5*	0.93 J	1.20	< 1.0 U	< 1.0 U
Ethylbenzene	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	5*	0.80 J	0.60 J	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl chloride	5*	< 1.0 U	1.4	< 1.0 U	< 1.0 U
Xylenes, Total	5*	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Total Volatile Organic Compounds	NA	30	52	48	28

Notes:

Bold font indicates the analyte was detected.

Bold font and bold outline indicates the screening criteria was exceeded.

* Site-specific RAO per ROD (November 1994)

J - Analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit; concentrations estimated.

U - Not detected at or above reporting limit.

NA - Not applicable

Table 6

Summary of Trichloroethene Concentrations Following November 2014 Injection Pilot Study - October 2019
Former Scott Aviation Facility - West of Plant 2 Site
NYSDEC Site Code No. 9-15-149
Lancaster, New York

Well ID	Jan 2015 ⁽¹⁾	Apr 2015	Jul 2015	Oct 2015	Jan 2016	Apr 2016	Jul 2016	Oct 2016	Jan 2017	Apr 2017	Jul 2017	Oct 2017	Jan 2018	Apr 2018	Jul 2018	Oct 2018	Jan 2019	April 2019	July 2019	Oct 2019	TCE Reduction - Previous Sampling	TCE Reduction - Baseline Sampling
MW-2	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	ND	ND
MW-3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	ND	ND
MW-4	18,000	110	<100	<100	<100	<100	<20	<20	<20	<5	<20	<20	<5	<20	<5	<20	5.2	2.1	2.6	<4	ND	ND
MW-6 ⁽²⁾	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NS	NS	NS	NS	NS	NS	NS	NA	NA
MW-8R	2,100	<2,000	200	<25	<1,000	<1,000	24	<100	<100	14	<400	7.7	NS	13	<10	<10	9.9	<40	<8	<10	ND	ND
MW-10 ⁽²⁾	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NS	NS	NS	NS	NS	NA	NA
MW- 11	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<4	<1	<1	<1	<1	ND	ND
MW-12 ⁽²⁾	NS	<1	<1	<1	<1	<5	<5	<1	<4	<1	<1	<1	<1	<4	<5	NS	NS	NS	NS	NS	NA	NA
MW-13S	19,000	31,000	<500	<10	41	<100	<4	<2	2.1	0.26	<2	<5	<40	<40	<40	<40	<40	0.7	NS	NS	ND	ND
MW-16S	160,000	26,000	5,100	<4,000	<4,000	<4,000	<2,000	<500	<500	86	<1,000	<500	<1,000	<1,000	<1,000	<1,000	550	<1,000	<2,500	<1,000	ND	ND

Notes:

(1) New baseline established following November 2014 injection pilot study.

(2) Well was decommissioned.

The injection of ABC+[®] occurred in November 2014 and April/May 2015.

The injection of ABC-Ole[®] with ZVI occurred in November 2018.

ND - Not Detected

NA - Not Available

NS - Not Sampled

Table 7
Bioattenuation Screening Summary
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York

Parameter	Units	Criteria		Score Value	Monitoring Well Identification							
					MW-4		MW-4		MW-4		MW-4	
					Oct/Nov 18	Score	Apr 19	Score	Jul 19	Score	Oct 19	Score
Dissolved Oxygen	mg/L	< 0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	3	1.24	0	2.63	0	0.42	3	0.25	3
		> 5 mg/L	Not tolerated; however, VC may be oxidized aerobically	-3								
Nitrate	mg/L	< 1 mg/L	At higher concentrations may compete with reductive pathway	2	ND	2	ND	2	0.025J	2	0.095	2
Ferrous Iron	µg/L	> 1 mg/L	Reductive pathway possible	3	3.4	3	1.2	3	2.0	3	ND	0
Sulfate	mg/L	< 20 mg/L	At higher concentrations may compete with reductive pathway	2	ND	2	ND	2	ND	2	19.1J	2
Sulfide	mg/L	> 1 mg/L	Reductive pathway possible	3	2.4	3	2.0	3	2.0	3	2.0	3
Methane	µg/L	< 500 µg/L	VC oxidizes	0								
		> 500 µg/L	Ultimate reductive daughter product, VC accumulates	3	18,000	3	22,000	3	12,000	3	7,900	3
Ethene	µg/L	> 10 µg/L	Daughter product of VC	2	4,800	2	1,100	2	ND	0	ND	0
Ethane	µg/L	> 100 µg/L	Daughter product of Ethene	3	440	3	250J	3	240J	3	160J	3
ORP	mV	< 50 mV	Reductive pathway possible	1								
		< -100 mV	Reductive pathway likely	2	-110.2	2	-157.7	2	-187.1	2	-134.8	2
pH	s.u.	5 < pH < 9	Optimal range for reductive pathway	0	6.83	0	7.40	0	6.96	0	7.42	0
		5 > pH > 9	Outside optimal range for reductive pathway	-2								
Temperature	°C	> 20°C	At temperature > 20°C, biochemical process is accelerated	1	11.72	0	11.60	0	15.30	0	12.60	0
TOC	mg/L	> 20 mg/L	Carbon and energy source, drives dechlorination (natural or anthropogenic)	2	46.6	2	614	2	434	2	310	2
Carbon Dioxide	µg/L	> 2x background	Ultimate oxidative product	1	64,000	0	51,000	0	85,000	0	87,000	0
Alkalinity	mg/L	> 2x background	Results from interaction of between carbon dioxide and aquifer minerals	1	740	0	692	0	873	0	986	0
PCE ¹	µg/L	----	N/A	0	<20	0	<4	0	<4	0	<4	0
TCE ²	µg/L	----	Material Released	0	<20	0	2.1J	0	2.6J	0	<4	0
DCE ³	µg/L	----	Daughter product of TCE (score if cis-1,2-DCE is 80% of total DCE)	2	<20	0	15	2	8.8	2	4.6	2
VC ⁴	µg/L	----	Daughter product of DCE	2	<20	0	71	2	13	2	14	2
1,1,1-TCA ⁵	µg/L	----	Material Released	0	<20	0	<4	0	<4	0	<4	0
1,1-DCA ⁶	µg/L	----	Daughter product of 1,1,1-TCA under reducing conditions	2	<20	0	25	2	<4.0	0	2.7	2
CA ⁷	µg/L	----	Daughter product of 1,1-DCA or VC under reducing conditions	2	420	2	84	2	210	2	120	2
TOTAL SCORE						24		30		29		28

Table 7
Bioattenuation Screening Summary
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York

Parameter	Units	Criteria		Score Value	Monitoring Well Identification							
					MW-8R		MW-8R		MW-8R		MW-8R	
					Oct/Nov 18	Score	Apr 19	Score	Jul 19	Score	Oct 19	Score
Dissolved Oxygen	mg/L	< 0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	3	0.08	3	3.01	0	0.33	3	0.17	3
		> 5 mg/L	Not tolerated; however, VC may be oxidized aerobically	-3								
Nitrate	mg/L	< 1 mg/L	At higher concentrations may compete with reductive pathway	2	0.24	2	ND	2	ND	2	ND	2
Ferrous Iron	µg/L	> 1 mg/L	Reductive pathway possible	3	0.74	0	1.0	0	11.8	3	0.19	0
Sulfate	mg/L	< 20 mg/L	At higher concentrations may compete with reductive pathway	2	14.0	2	ND	2	ND	2	11.8	2
Sulfide	mg/L	> 1 mg/L	Reductive pathway possible	3	2.0	3	1.6	3	2.0	3	ND	0
Methane	µg/L	< 500 µg/L	VC oxidizes	0								
		> 500 µg/L	Ultimate reductive daughter product, VC accumulates	3	13,000	3	25,000	3	9,500	3	9,600	3
Ethene	µg/L	> 10 µg/L	Daughter product of VC	2	1,700	2	1,500	2	ND	0	200	2
Ethane	µg/L	> 100 µg/L	Daughter product of Ethene	3	1,200	3	520J	3	ND	0	140	2
ORP	mV	< 50 mV	Reductive pathway possible	1								
		< -100 mV	Reductive pathway likely	2	-118.1	2	-188.7	2	-237.7	2	-150.8	2
pH	s.u.	5 < pH < 9	Optimal range for reductive pathway	0	7.11	0	7.56	0	7.28	0	7.32	0
		5 > pH > 9	Outside optimal range for reductive pathway	-2								
Temperature	°C	> 20°C	At temperature > 20°C, biochemical process is accelerated	1	10.63	0	10.20	0	14.70	0	15.70	0
TOC	mg/L	> 20 mg/L	Carbon and energy source, drives dechlorination (natural or anthropogenic)	2	34.2	2	147	2	171	2	227.0	2
Carbon Dioxide	µg/L	> 2x background	Ultimate oxidative product	1	25,000	0	23,000	0	85,000	1	58,000	1
Alkalinity	mg/L	> 2x background	Results from interaction of between carbon dioxide and aquifer minerals	1	447	0	345	0	534	0	733	0
PCE ¹	µg/L	----	N/A	0	<10	0		0	<8	0	<10	0
TCE ²	µg/L	----	Material Released	0	<10	0	<8	0	<8	0	<10	0
DCE ³	µg/L	----	Daughter product of TCE (score if cis-1,2-DCE is 80% of total DCE)	2	<10	0	880	2	290	2	370	2
VC ⁴	µg/L	----	Daughter product of DCE	2	<10	0	1900	2	270	2	620	2
1,1,1-TCA ⁵	µg/L	----	Material Released	0	<10	0	<8	0	<8	0	<10	0
1,1-DCA ⁶	µg/L	----	Daughter product of 1,1,1-TCA under reducing conditions	2	5J	0	39	2	12	2	19	2
CA ⁷	µg/L	----	Daughter product of 1,1-DCA or VC under reducing conditions	2	38	2	<40	2	20	2	24	2
TOTAL SCORE						24		27		29		27

Table 7
Bioattenuation Screening Summary
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York

Parameter	Units	Criteria		Score Value	Monitoring Well Identification							
					MW-13S		MW-13S		MW-13S		MW-13S	
					Oct/Nov 18	Score	Apr 19	Score	July 19	Score	Oct 19	Score
Dissolved Oxygen	mg/L	< 0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	3	0.03	3	2.86	0	NA	NA	NA	NA
		> 5 mg/L	Not tolerated; however, VC may be oxidized aerobically	-3								
Nitrate	mg/L	< 1 mg/L	At higher concentrations may compete with reductive pathway	2	0.46	2	0.17	2	NA	NA	NA	NA
Ferrous Iron	µg/L	> 1 mg/L	Reductive pathway possible	3	0.47	0	0.14	0	NA	NA	NA	NA
Sulfate	mg/L	< 20 mg/L	At higher concentrations may compete with reductive pathway	2	ND	2	ND	2	NA	NA	NA	NA
Sulfide	mg/L	> 1 mg/L	Reductive pathway possible	3	ND	0	ND	0	NA	NA	NA	NA
Methane	µg/L	< 500 µg/L	VC oxidizes	0								
		> 500 µg/L	Ultimate reductive daughter product, VC accumulates	3	21,000	3	23,000	3	NA	NA	NA	NA
Ethene	µg/L	> 10 µg/L	Daughter product of VC	2	1,300	2	670J	2	NA	NA	NA	NA
Ethane	µg/L	> 100 µg/L	Daughter product of Ethene	3	470	3	220J	3	NA	NA	NA	NA
ORP	mV	< 50 mV	Reductive pathway possible	1								
		< -100 mV	Reductive pathway likely	2	-148.3	2	-137.4	2	NA	NA	NA	NA
pH	s.u.	5 < pH < 9	Optimal range for reductive pathway	0	7.12	0	7.17	0	NA	NA	NA	NA
		5 > pH > 9	Outside optimal range for reductive pathway	-2								
Temperature	°C	> 20°C	At temperature > 20°C, biochemical process is accelerated	1	11.79	0	10.20	0	NA	NA	NA	NA
TOC	mg/L	> 20 mg/L	Carbon and energy source, drives dechlorination (natural or anthropogenic)	2	68.0	2	38.1	2	NA	NA	NA	NA
Carbon Dioxide	µg/L	> 2x background	Ultimate oxidative product	1	36,000	0	100,000	1	NA	NA	NA	NA
Alkalinity	mg/L	> 2x background	Results from interaction of between carbon dioxide and aquifer minerals	1	380	0	547	0	NA	NA	NA	NA
PCE ¹	µg/L	----	N/A	0	<1.0	0	<1.0	0	NA	NA	NA	NA
TCE ²	µg/L	----	Material Released	0	<1.0	0	0.70J	0	NA	NA	NA	NA
DCE ³	µg/L	----	Daughter product of TCE (score if cis-1,2-DCE is 80% of total DCE)	2	<1.0	0	3.2	2	NA	NA	NA	NA
VC ⁴	µg/L	----	Daughter product of DCE	2	<1.0	0	3.6	2	NA	NA	NA	NA
1,1,1-TCA ⁵	µg/L	----	Material Released	0	<1.0	0	<1	0	NA	NA	NA	NA
1,1-DCA ⁶	µg/L	----	Daughter product of 1,1,1-TCA under reducing conditions	2	<1.0	0	0.48	2	NA	NA	NA	NA
CA ⁷	µg/L	----	Daughter product of 1,1-DCA or VC under reducing conditions	2	4.2	2	6.30	2	NA	NA	NA	NA
TOTAL SCORE						21		25		NA		NA

* MW-13S was dry in July and October 2019.

Table 7
Bioattenuation Screening Summary
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York

Parameter	Units	Criteria		Score Value								
					MW-16S		MW-16S		MW-16S		MW-16S	
					Oct/Nov 18	Score	Apr 19	Score	Jul 19	Score	Oct 19	Score
Dissolved Oxygen	mg/L	< 0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	3	0.66	0	3.23	0	3.37	0	1.71	0
		> 5 mg/L	Not tolerated; however, VC may be oxidized aerobically	-3								
Nitrate	mg/L	< 1 mg/L	At higher concentrations may compete with reductive pathway	2	0.025J	2	ND	2	0.023	2	0.050	2
Ferrous Iron	µg/L	> 1 mg/L	Reductive pathway possible	3	2.8	3	103	3	49.9	3	4.7	3
Sulfate	mg/L	< 20 mg/L	At higher concentrations may compete with reductive pathway	2	17.1J	2	ND	2	ND	2	16.1	2
Sulfide	mg/L	> 1 mg/L	Reductive pathway possible	3	ND	0	ND	0	ND	0	ND	0
Methane	µg/L	< 500 µg/L	VC oxidizes	0								
		> 500 µg/L	Ultimate reductive daughter product, VC accumulates	3	16,000	3	17,000	3	7,900	3	12,000	3
Ethene	µg/L	> 10 µg/L	Daughter product of VC	2	26,000	2	11,000	2	12,000	2	14,000	2
Ethane	µg/L	> 100 µg/L	Daughter product of Ethene	3	1,500	3	430J	3	290J	3	280J	3
ORP	mV	< 50 mV	Reductive pathway possible	1	2.6	1	-93.6	1			-30.3	1
		< -100 mV	Reductive pathway likely	2					-127.0	2		
pH	s.u.	5 < pH < 9	Optimal range for reductive pathway	0	6.12	0	6.34	0	6.45	0	6.59	0
		5 > pH > 9	Outside optimal range for reductive pathway	-2								
Temperature	°C	> 20°C	At temperature > 20°C, biochemical process is accelerated	1	10.01	0	8.60	0	17.00	0	11.00	0
TOC	mg/L	> 20 mg/L	Carbon and energy source, drives dechlorination (natural or anthropogenic)	2	103	2	511	2	268	2	316.0	2
Carbon Dioxide	µg/L	> 2x background	Ultimate oxidative product	1	170,000	0	83,000	0	56,000	0	66,000	0
Alkalinity	mg/L	> 2x background	Results from interaction of between carbon dioxide and aquifer minerals	1	327	0	379	0	388	0	443	0
PCE ¹	µg/L	----	N/A	0	<1000	0	<1000	0	<2500	0	<1000	0
TCE ²	µg/L	----	Material Released	0	<1000	0	<1000	0	<2500	0	<1000	0
DCE ³	µg/L	----	Daughter product of TCE (score if cis-1,2-DCE is 80% of total DCE)	2	73,000	2	46,000	2	22,000	2	14,000	2
VC ⁴	µg/L	----	Daughter product of DCE	2	59,000	2	92,000	2	62,000	2	32,000	2
1,1,1-TCA ⁵	µg/L	----	Material Released	0	<1000	0	<1000	0	<2500	0	<1000	0
1,1-DCA ⁶	µg/L	----	Daughter product of 1,1,1-TCA under reducing conditions	2	700J	2	1300J	2	<2500	2	<1000	0
CA ⁷	µg/L	----	Daughter product of 1,1-DCA or VC under reducing conditions	2	1,500	2	920J	2	<2500	2	1,100	2
TOTAL SCORE						26		26		27		24

Table 7
Bioattenuation Screening Summary
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York

Parameter	Units	Criteria		Score Value	Monitoring Well Identification							
					MW-16D		MW-16D		MW-16D		MW-16D	
					Oct/Nov 18	Score	Apr 19	Score	Jul 19	Score	Oct 19	Score
Dissolved Oxygen	mg/L	< 0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	3	1.4	0	2.69	0	0.49	3	0.28	3
		> 5 mg/L	Not tolerated; however, VC may be oxidized aerobically	-3								
Nitrate	mg/L	< 1 mg/L	At higher concentrations may compete with reductive pathway	2	ND	2	ND	2	ND	2	0.033J	2
Ferrous Iron	µg/L	> 1 mg/L	Reductive pathway possible	3	0.045J	0	0.053	0	0.053	0	ND	0
Sulfate	mg/L	< 20 mg/L	At higher concentrations may compete with reductive pathway	2	ND	2	ND	2	ND	2	ND	2
Sulfide	mg/L	> 1 mg/L	Reductive pathway possible	3	ND	0	ND	0	ND	0	ND	0
Methane	µg/L	< 500 µg/L	VC oxidizes	0								
		> 500 µg/L	Ultimate reductive daughter product, VC accumulates	3	9,600	3	13,000	3	9,800	3	10,000	3
Ethene	µg/L	> 10 µg/L	Daughter product of VC	2	260	2	ND	0	ND	0	ND	0
Ethane	µg/L	> 100 µg/L	Daughter product of Ethene	3	310	3	ND	0	330	3	390J	3
ORP	mV	< 50 mV	Reductive pathway possible	1	-31.3	1						
		< -100 mV	Reductive pathway likely	2			-166.5	2	-195.4	2	-116.6	2
pH	s.u.	5 < pH < 9	Optimal range for reductive pathway	0	6.06	0	7.65	0	7.57	0	7.66	0
		5 > pH > 9	Outside optimal range for reductive pathway	-2								
Temperature	°C	> 20°C	At temperature > 20°C, biochemical process is accelerated	1	9.35	0	11.30	0	13.50	0	11.2	0
TOC	mg/L	> 20 mg/L	Carbon and energy source, drives dechlorination (natural or anthropogenic)	2	2.5	0	3.0	0	1.7	0	3.2	0
Carbon Dioxide	µg/L	> 2x background	Ultimate oxidative product	1	9,200	0	22,000	1	18,000	0	21,000	1
Alkalinity	mg/L	> 2x background	Results from interaction of between carbon dioxide and aquifer minerals	1	213	0	228	0	292	0	302	0
PCE ¹	µg/L	----	N/A	0	<1.0	0	<2	0	<1	0	<1	0
TCE ²	µg/L	----	Material Released	0	<1.0	0	<2	0	<1	0	<1	0
DCE ³	µg/L	----	Daughter product of TCE (score if cis-1,2-DCE is 80% of total DCE)	2	2.3	2	5	2	2.0	2	1.8	2
VC ⁴	µg/L	----	Daughter product of DCE	2	17	2	37	2	6.5	2	2.3	2
1,1,1-TCA ⁵	µg/L	----	Material Released	0	<1.0	0	<2	0	<1	0	<1	0
1,1-DCA ⁶	µg/L	----	Daughter product of 1,1,1-TCA under reducing conditions	2	1.2	2	3.6	2	2.1	2	1.3	2
CA ⁷	µg/L	----	Daughter product of 1,1-DCA or VC under reducing conditions	2	38	2	72	2	39	2	76	2
TOTAL SCORE						21		18		23		24

Table 7
Bioattenuation Screening Summary
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York

Notes:

DCE = dichloroethene

°C = degrees Celsius

µg/L = micrograms per liter

mg/L = milligrams per liter

mV = millivolts

ORP = oxidation-reduction potential

s.u. = standard unit

PCE = tetrachloroethene

TCE = trichloroethene

TOC = total organic carbon

VC = vinyl chloride

1,1,1-TCA = 1,1,1-trichloroethane

1,1-DCA = 1,1-dichloroethane

CA = chloroethane

ND = Non-Detect

J = Estimated Concentration

Injection of ABC-Ole+ occurred during the week of November 26, 2018.

0 to 5 points:

There is inadequate evidence for anaerobic biodegradation of chlorinated organics.

6 to 14 points:

There is limited evidence for anaerobic biodegradation of chlorinated organics.

15 to 20 points:

There is adequate evidence for anaerobic biodegradation of chlorinated organics.

>20 points:

There is strong evidence for anaerobic biodegradation of chlorinated organics.

¹ = Material Released

² = Daughter product of PCE

³ = Daughter product of TCE (score if cis-1,2-DCE is 80% of total DCE)

⁴ = Daughter product of DCE

⁵ = Material Released

⁶ = Daughter product of 1,1,1-TCA under reducing conditions

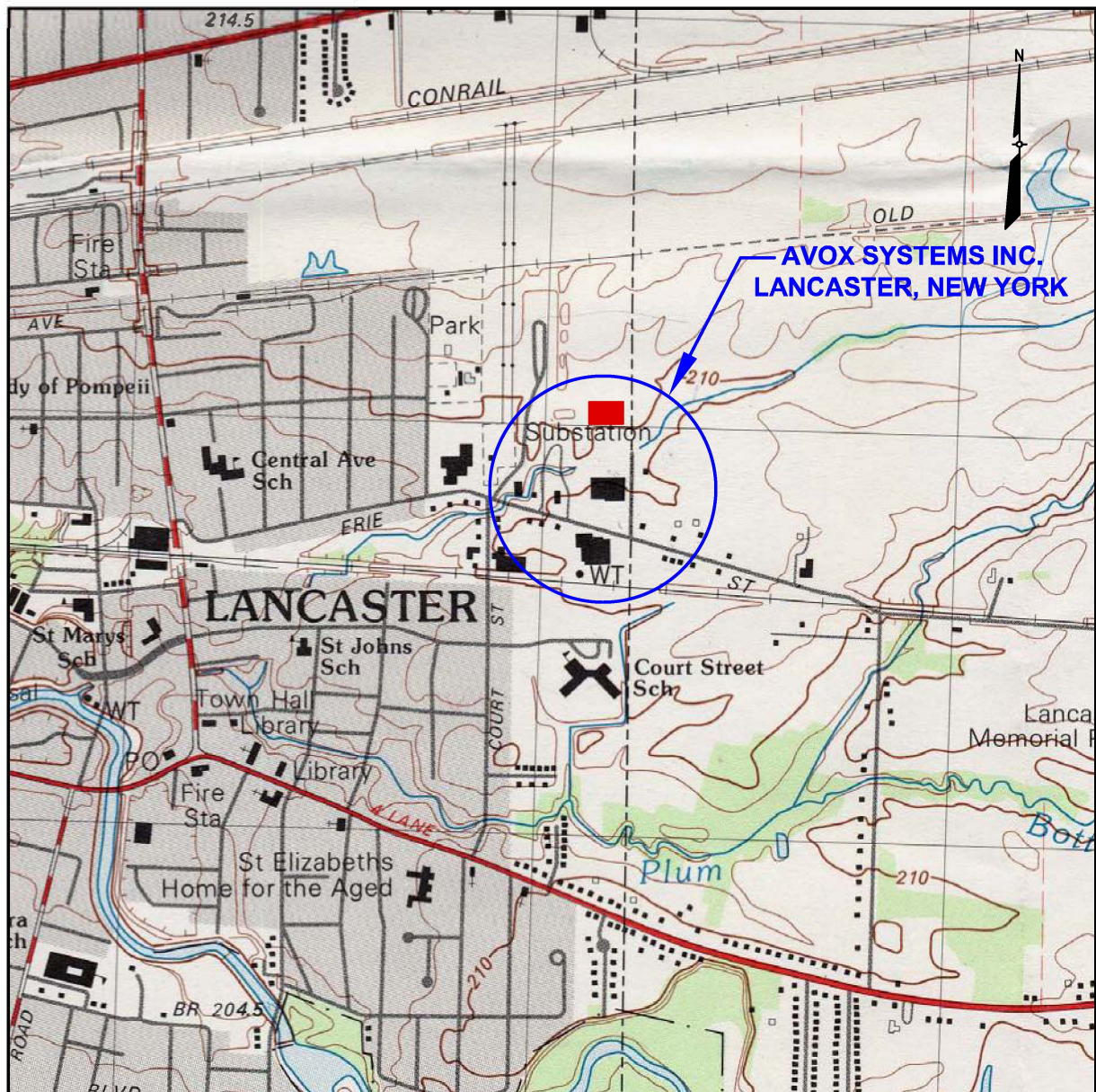
⁷ = Daughter product of 1,1-DCA or VC under reducing conditions

Table 8

Vapor Monitoring Results - October 2019
Former Scott Aviation Facility - West of Plant 2
NYSDEC Site Code No. 9-15-149
Lancaster, New York

	LRP Effluent 4Q19 Not Sampled	AS Effluent 4Q19 10/13/2019
<u>VOCs by Method TO-15 (µg/m³)</u>		
Chloroethane	NA	95
Toluene	NA	1.5
Total Detected VOCs (µg/m ³)	NA	96.5
Vacuum (inches Hg)	NA	3.0
Air Flow Rate (acfm)	NA	57
VOC discharge loading (lb/hr)	NA	0.00002
Total VOC discharge loading (lb/hr)	0.00002	
Notes: 1. µg/m ³ = micrograms per cubic meter 2. acfm = actual cubic feet per minute 3. Hg = Mercury 4. lb/hr = pounds per hour 5. LRP Effluent represents the untreated vapor discharge for the Liquid Ring Pump; LRP is off line due to November 2018 injection program. 6. AS Effluent represents the untreated vapor discharge for the Air Stripper.		

Figures



SOURCE:
1982 GEOLOGIC SURVEY 7.5 X 15 MINUTE TOPOGRAPHIC QUADRANGLE
LANCASTER, NEW YORK

LEGEND

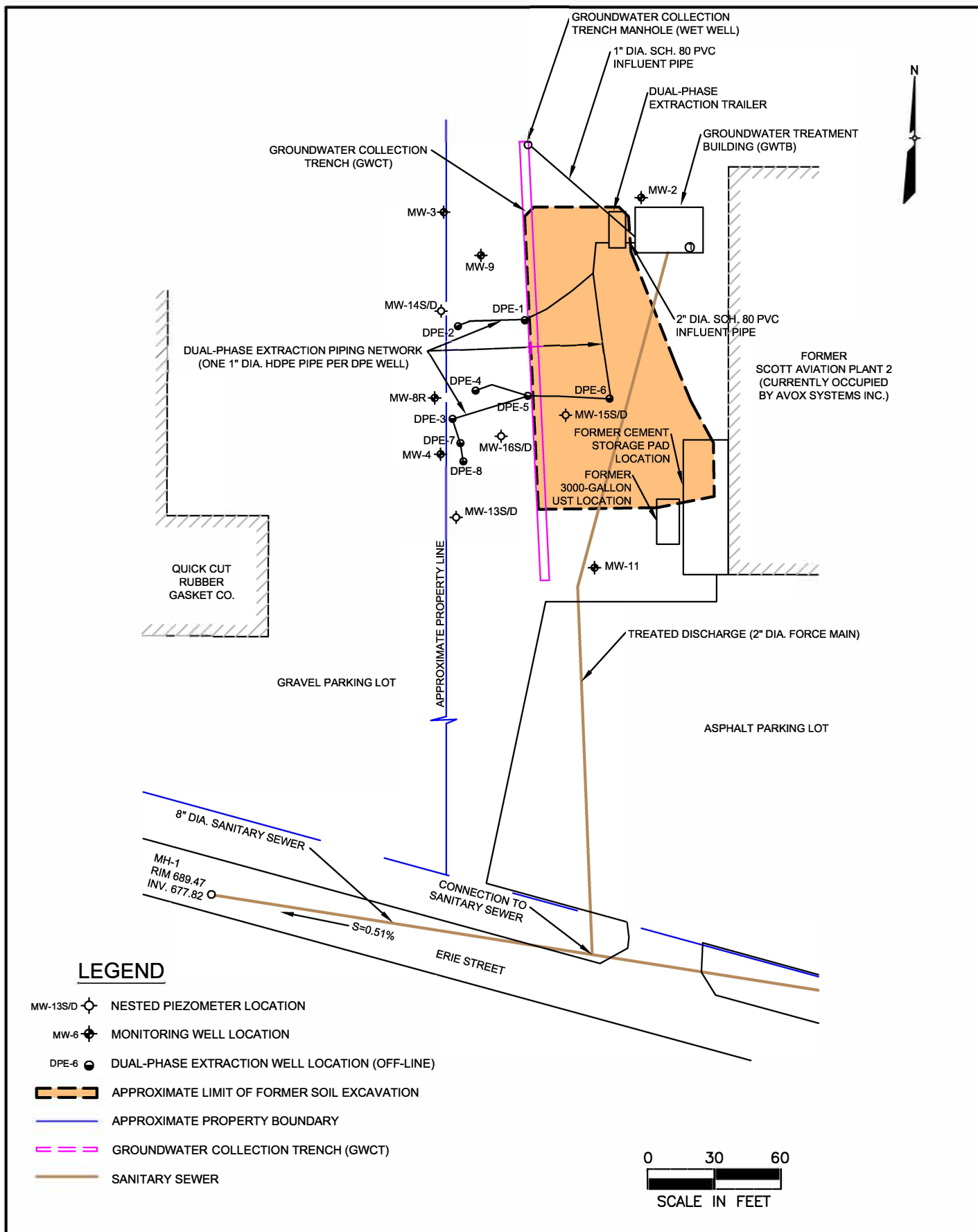
■ AVOX PLANT 3 ADDED AFTER PUBLICATION OF LANCASTER, NEW YORK
TOPOGRAPHIC QUADRANGLE.

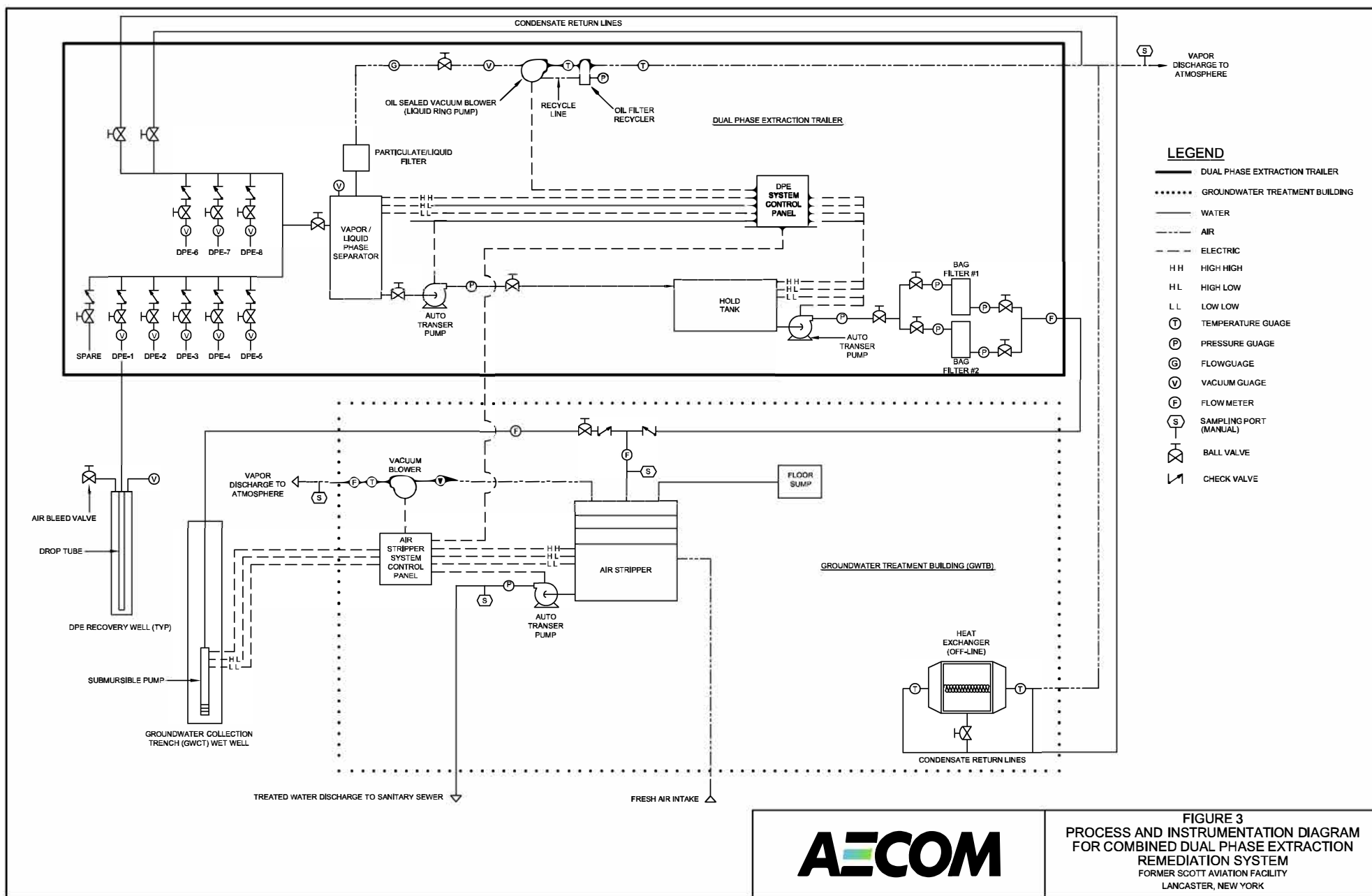
0 1000 2000
SCALE IN FEET

AECOM

FIGURE 1
SITE LOCATION MAP

FORMER SCOTT AVIATION FACILITY
LANCASTER, NEW YORK





Quarterly Groundwater Monitoring Water Level Data - October 14, 2019
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York

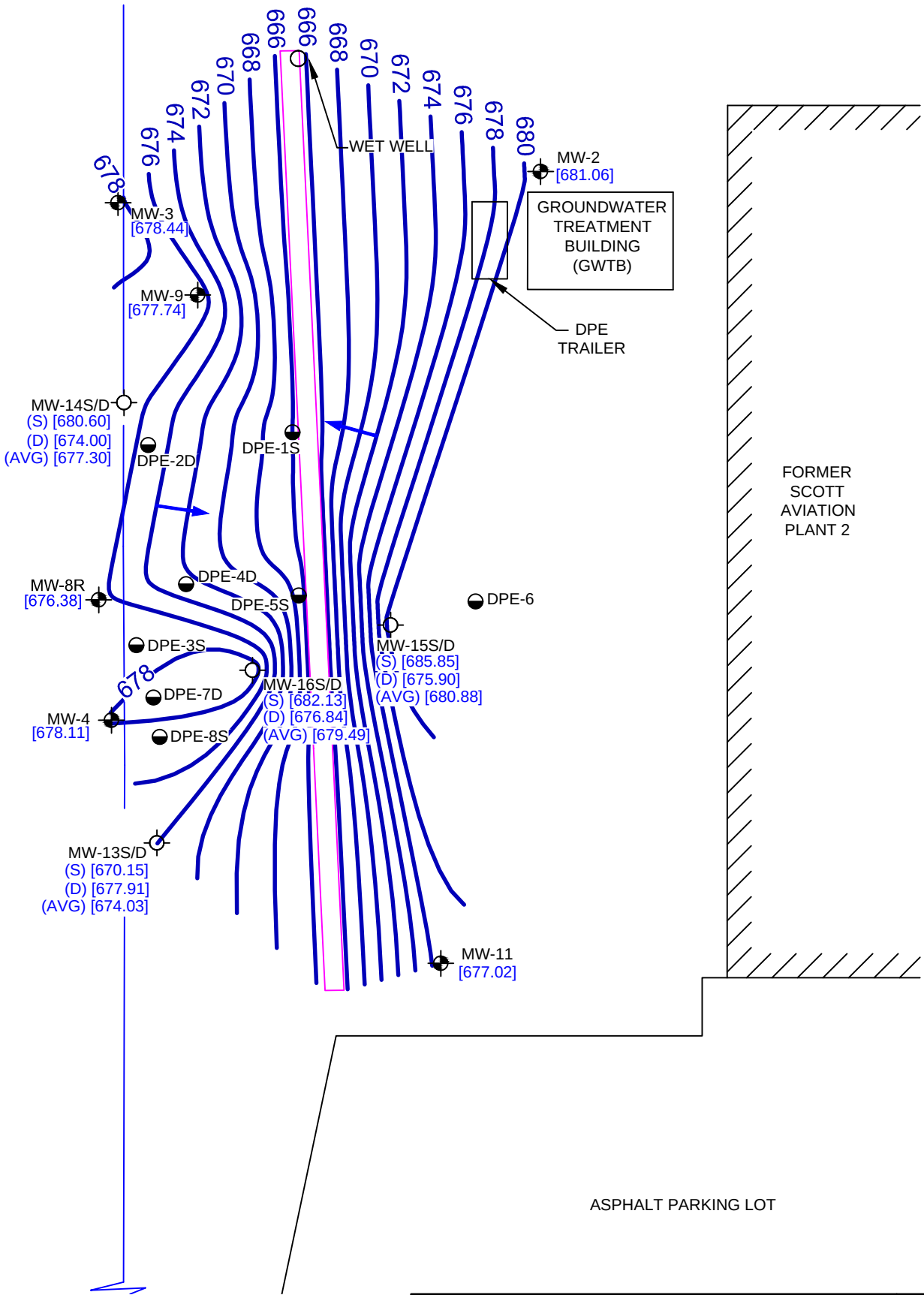
Monitoring Point Identification	Top of Casing Elevation (feet AMSL)	Depth to Water (feet from TOC)	Ground Water Elevation (feet AMSL)
Monitoring Point	Top of Casing	Depth to	Ground Water
Monitoring Wells			
MW-2	688.62	7.56	681.06
MW-3	687.05	8.61	678.44
MW-4	686.50	8.39	678.11
MW-8R	686.29	9.91	676.38
MW-9	689.57	11.83	677.74
MW-11	688.61	11.59	677.02
Nested Piezometers			
MW-13S	686.65	16.50	670.15
MW-13D	686.78	8.87	677.91
MW-14S	685.74	5.14	680.60
MW-14D	685.88	11.88	674.00
MW-15S	687.17	1.32	685.85
MW-15D	687.87	11.97	675.90
MW-16S	688.15	6.02	682.13
MW-16D	688.16	11.32	676.84
Remedial System			
DPE-8	686.03	1.61	684.42

Notes:
TOC - Top of Casing
AMSL - Above Mean Sea Level
GWCT - Groundwater Collection Trench
GWCT is 200 feet long with a 0.01 foot/foot slope to the collection manhole
Locations re-surveyed on February 23, 2016



GRAVEL PARKING LOT

ASPHALT PARKING LOT



LEGEND

- MW-13S/D NESTED PIEZOMETER LOCATION
- MW-9 MONITORING WELL LOCATION
- DPE-6 DUAL-PHASE EXTRACTION WELL LOCATION (OFF-LINE)
- [677.02] GROUNDWATER SURFACE ELEVATION IN FEET AMSL
- 678 ESTIMATED GROUNDWATER SURFACE CONTOUR IN FEET AMSL
- GROUNDWATER FLOW DIRECTION
- (S) SHALLOW PIEZOMETER/DPE
- (D) DEEP PIEZOMETER/DPE
- GROUNDWATER COLLECTION TRENCH (GWCT)
- APPROXIMATE PROPERTY BOUNDARY

NOTES

- GROUNDWATER ELEVATIONS WERE AVERAGED AT SHALLOW AND DEEP PIEZOMETER PAIR LOCATIONS (e.g. MW-15S/D) TO COMPARE TO ELEVATIONS MEASURED IN WELLS SCREENED ACROSS THE ENTIRE OVERBURDEN THICKNESS.
- GROUNDWATER WATER LEVELS WERE COLLECTED ON OCTOBER 14, 2019.
- THE DPE SYSTEM WAS TEMPORARY TURNED OFF LINE TO ACCOMMODATE THE NOVEMBER 2018 GROUNDWATER INJECTION PROGRAM. (THE GROUNDWATER COLLECTION TRENCH WAS ACTIVELY PUMPING.)



FIGURE 4
OCTOBER 14, 2019 AVERAGE OVERBURDEN
GROUNDWATER ELEVATIONS

FORMER SCOTT AVIATION FACILITY
LANCASTER, NEW YORK



Quarterly Groundwater Monitoring Water Level Data - October 14, 2019
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York

Monitoring Point Identification	Top of Casing Elevation (feet AMSL)	Depth to Water (feet from TOC)	Ground Water Elevation (feet AMSL)

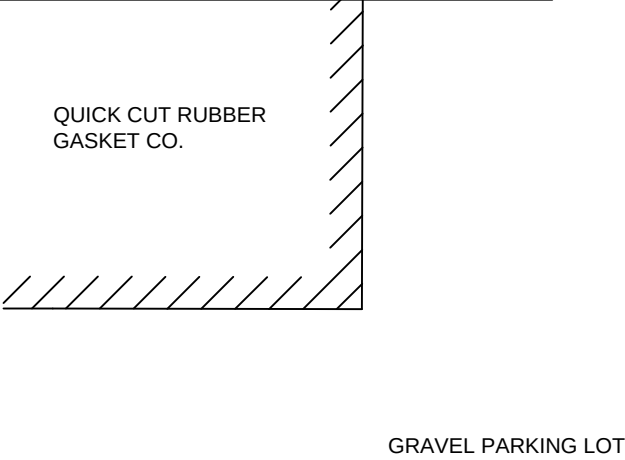
Monitoring Point	Top of Casing	Depth to	Ground Water

Monitoring Wells			
MW-2	688.62	7.56	681.06
MW-3	687.05	8.61	678.44
MW-4	686.50	8.39	678.11
MW-8R	686.29	9.91	676.38
MW-9	689.57	11.83	677.74
MW-11	688.61	11.59	677.02

Nested Piezometers			
MW-13S	686.65	16.50	670.15
MW-13D	686.78	8.87	677.91
MW-14S	685.74	5.14	680.60
MW-14D	685.88	11.88	674.00
MW-15S	687.17	1.32	685.85
MW-15D	687.87	11.97	675.90
MW-16S	688.15	6.02	682.13
MW-16D	688.16	11.32	676.84

Remedial System			
DPE-8	686.03	1.61	684.42

Notes:
TOC - Top of Casing
AMSL - Above Mean Sea Level
GWCT - Groundwater Collection Trench
GWCT is 200 feet long with a 0.01 foot/foot slope to the collection manhole
Locations re-surveyed on February 23, 2016



LEGEND

MW-13S/D

NESTED PIEZOMETER LOCATION

MW-9

MONITORING WELL LOCATION

DPE-6

DUAL-PHASE EXTRACTION WELL LOCATION (OFF-LINE)

[677.02]

GROUNDWATER SURFACE ELEVATION IN FEET AMSL

676

ESTIMATED GROUNDWATER SURFACE CONTOUR IN FEET AMSL

GROUND WATER FLOW DIRECTION

(S)

SHALLOW PIEZOMETER/DPE

(D)

DEEP PIEZOMETER/DPE

GROUNDWATER COLLECTION TRENCH (GWCT)

APPROXIMATE PROPERTY BOUNDARY

- NOTES**
1. GROUNDWATER ELEVATIONS FROM THE DEEP PIEZOMETERS PAIR AND DEEP DUAL PHASE EXTRACTION WELLS (i.e. MW-13D, MW-14D, MW-15D, MW-16D, DPE-2, DPE-4, AND DPE-7) WERE USED TO CREATE THE GROUNDWATER SURFACE CONTOURS.

2. GROUNDWATER WATER LEVELS WERE COLLECTED ON OCTOBER 14, 2019.

3. THE DPE SYSTEM WAS TEMPORARY TURNED OFF LINE TO ACCOMMODATE THE NOVEMBER 2018 GROUNDWATER INJECTION PROGRAM. (THE GROUNDWATER COLLECTION TRENCH WAS ACTIVELY PUMPING.)

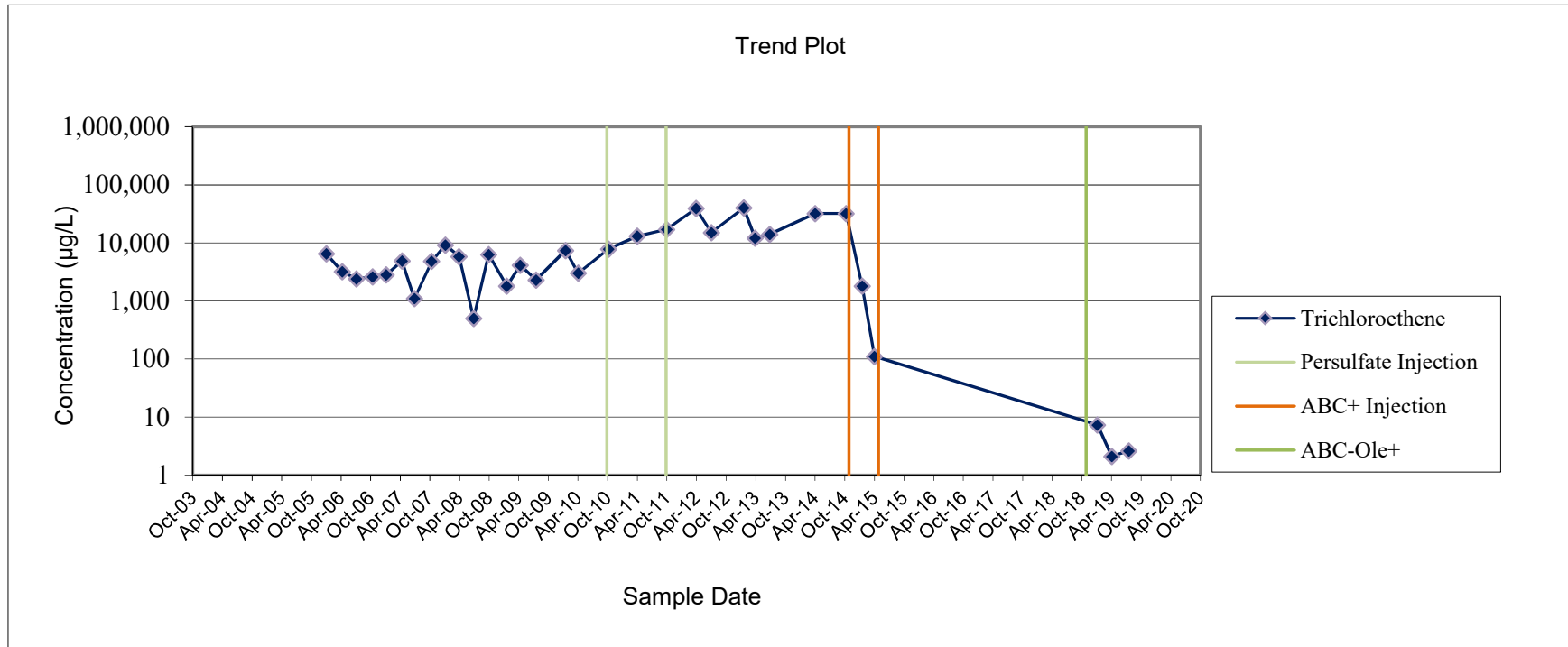


FIGURE 5
OCTOBER 14, 2019 DEEP OVERBURDEN
GROUNDWATER ELEVATIONS

FORMER SCOTT AVIATION FACILITY
LANCASTER, NEW YORK

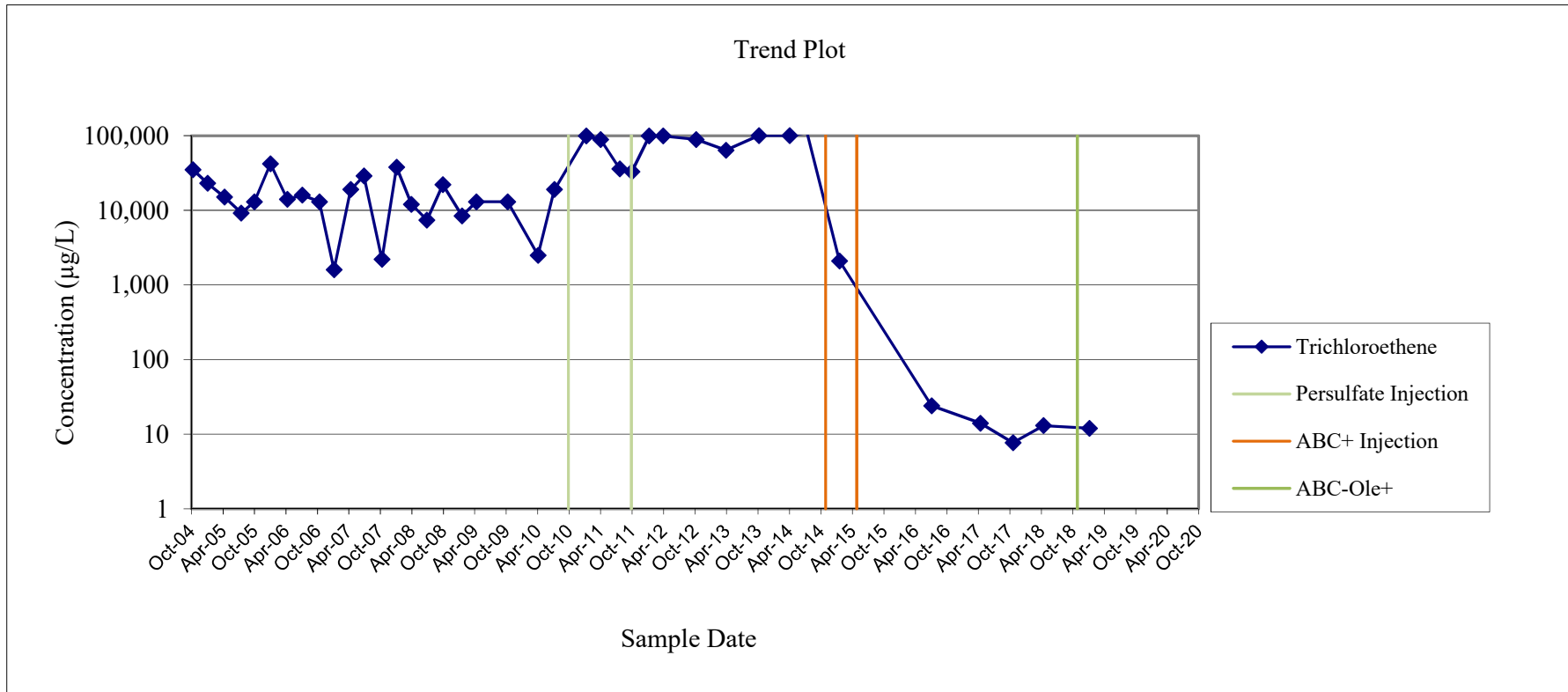


FIGURE 6
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
MONITORING WELL MW-4
Former Scott Aviation Site
Lancaster, New York



Note: LNAPL was present in MW-4 during the October 2004 and January 2005 groundwater sampling events.

FIGURE 7
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
MONITORING WELL MW-8R
Former Scott Aviation Site
Lancaster, New York



Note: LNAPL was present in MW-4 during the October 2004 and January 2005 groundwater sampling events.

FIGURE 8
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
MONITORING WELL MW-13S
Former Scott Aviation Site
Lancaster, New York

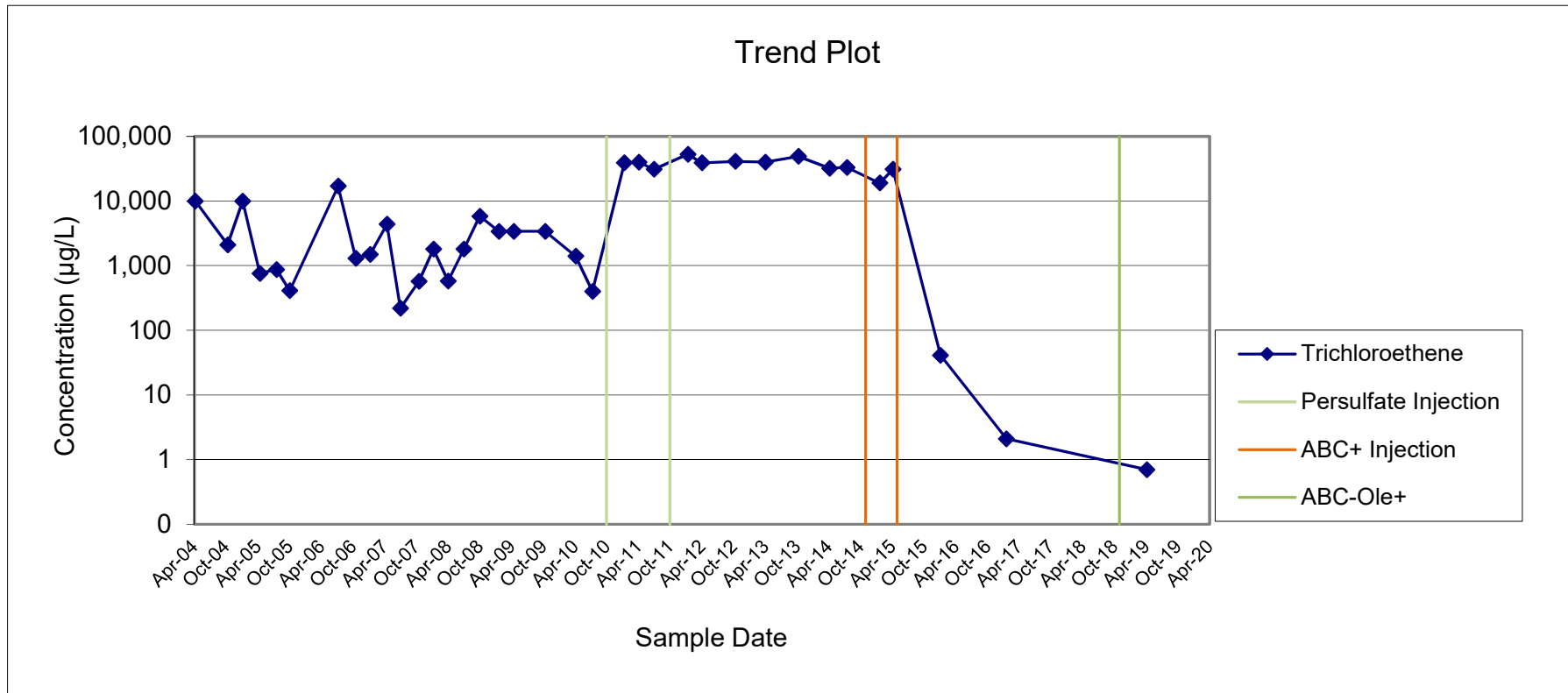
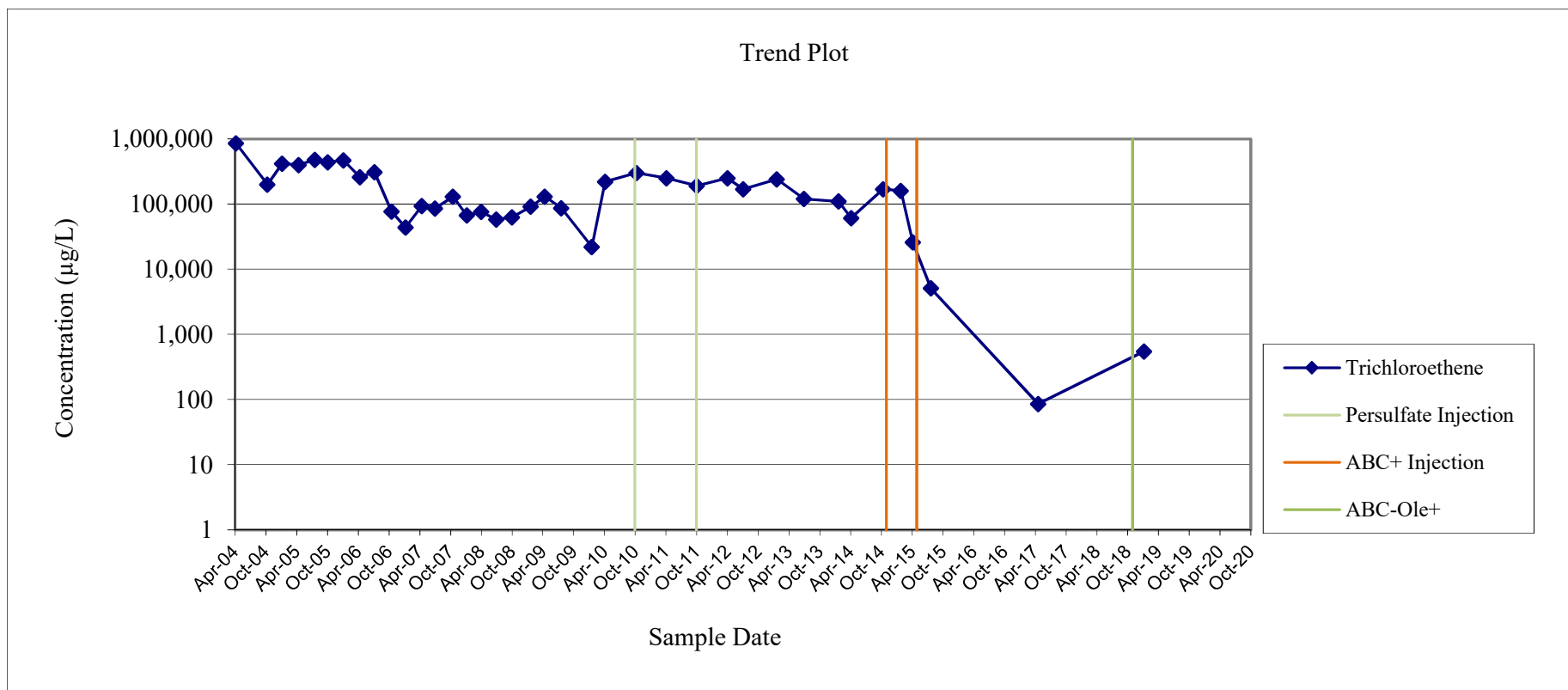


FIGURE 9
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
MONITORING WELL MW-16S
Former Scott Aviation Site
Lancaster, New York



Appendix A

October 2019 Field Forms



GROUNDWATER SAMPLING LOG

Page 1 of 1

Date (mo/day/yr) 10/15/2019

Field Personnel S. Connelly

Site Name Former Scott Aviation Site - Lancaster, NY

Job # 60538931

Well ID # MW-2

☒ Upgradient ☐ Downgradient

Weather Conditions Sunny

Air Temperature 56 ° F

Total Depth (TWD) Below Top of Casing = 16 1/100 ft

Depth to Groundwater (DGW) Below Top of Casing = 7.58 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 8.42 1/100 ft

1 Casing Volume (OCV) = LWC x 0.163 = 1.4 gal

3 Casing Volumes = 4.1 gal

Method of Well Evacuation Peristaltic Pump

Method of Sample Collection Peristaltic Pump/Poly Tubing

Total Volume of Water Removed 2.5 gal

Casing Diameter 2 inches

Casing Material PVC

Measuring Point Elevation 688.62 1/100 ft

Height of Riser (above land surface) 3.32 1/100 ft

Land Surface Elevation 685.3 1/100 ft

Screened Interval (below land surface) 7-17 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260C)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	300	300	300	300	300	300	300
Time (Military)	9:50	9:55	10:00	10:05	10:10	10:15	10:25
Depth to Groundwater Below Top of Casing (ft)	9.84	10.22	10.61	11.12	11.50	11.98	12.67
Drawdown (ft)	-2.26	-0.38	-0.39	-0.51	-0.38	-0.48	-0.27
pH (S.U.)	6.77	6.79	6.91	6.85	6.73	6.68	6.72
Sp. Cond. (uS/cm)	0.816	0.769	0.703	0.684	0.690	0.726	0.744
Turbidity (NTUs)	0.82	1.90	16.21	16.38	6.61	0.65	2.94
Dissolved Oxygen (mg/L)	0.72	0.56	0.43	0.41	0.40	0.36	0.35
Water Temperature (°C)	15.2	15.4	15.6	15.7	15.8	15.8	15.9
ORP (mV)	-85.1	-81.9	-74.9	-21.2	-37.9	-80.0	-84.9

Physical appearance at start Color Clear

Odor None

Sheen/Free Product None

Physical appearance at sampling Color Clear

Odor None

Sheen/Free Product None

COMMENTS/OBSERVATIONS Began purge at 09:44

Began sampling at 10:23

GROUNDWATER SAMPLING LOG

Date (mo/day/yr)	10/15/2019		
Field Personnel	S. Connelly		
Site Name	Former Scott Aviation Site - Lancaster, NY		
Job #	60538931		
Well ID #	MW-8R		
	Upgradient	X	Downgradient
Weather Conditions	Sunny		
Air Temperature	56		° F
Total Depth (TWD) Below Top of Casing =	27.2		1/100 ft
Depth to Groundwater (DGW) Below Top of Casing =	7.92		1/100 ft
Length of Water Column (LWC) = TWD - DGW =	19.28		1/100 ft
1 Casing Volume (OCV) = LWC x	0.163	=	3.1 gal
3 Casing Volumes =	9.4		gal
Method of Well Evacuation	Peristaltic Pump		
Method of Sample Collection	Peristaltic Pump/Poly Tubing		
Total Volume of Water Removed	2.75		gal

Casing Diameter	4	inches
Casing Material	PVC	
Measuring Point Elevation	686.29	1/100 ft
Height of Riser (above land surface)	-0.29	1/100 ft
Land Surface Elevation	686.58	1/100 ft
Screened Interval (below land surface)	14 - 24	1/100 ft

[illegible]

FIELD ANALYSES

Flow Rate (ml/min)
Time (Military)
Depth to Groundwater
Below Top of Casing (ft)
Drawdown (ft)
pH (S.U.)
Sp. Cond. (uS/cm)
Turbidity (NTUs)
Dissolved Oxygen (g/L)
Water Temperature (°C)
ORP (mV)

230	230	230	230	230	230	230	230
12:50	12:55	13:00	13:05	13:10	13:15	13:20	13:25
8.62	10.27	11.04	12.05	13.27	14.16	14.32	14.35
-0.70	-1.65	-0.77	-1.01	-1.22	-0.89	-0.16	-0.03
7.45	7.52	7.48	7.44	7.42	7.4	7.39	7.33
2.120	2.116	2.110	2.109	2.113	2.128	2.125	2.127
265.48	75.28	55.79	45.81	290.61	320.49	235.74	202.04
0.60	0.35	0.29	0.24	0.20	0.24	0.19	0.18
14.2	14.3	14.4	14.6	14.6	14.8	15.1	15.5
-149.2	-168.6	-158.4	-148.6	-155.3	-161.7	-164.1	-153.2

Physical appearance at start	Color	Clear
	Odor	Slight
Shoen/Free Product	None	

Physical appearance at sampling	Color	<u>Clear / Gray</u>
	Odor	<u>Slight</u>
Shreen/Free Product	None	

COMMENTS/OBSERVATIONS	Began purge at 12:48
	Began sampling at 13:35



GROUNDWATER SAMPLING LOG

Page 1 of 1

Date (mo/day/yr) 10/15/2019
Field Personnel S. Connelly
Site Name Former Scott Aviation Site - Lancaster, NY
Job # 60538931
Well ID # MW-13S

Casing Diameter 1 inches
Casing Material PVC
Measuring Point Elevation 685.74 1/100 ft
Height of Riser (above land surface) -0.50 1/100 ft
Land Surface Elevation 686.24 1/100 ft
Screened Interval (below land surface) 8.5-16.5 1/100 ft

Upgradient X Downgradient
Weather Conditions Sunny, slight breeze

Air Temperature 56 ° F
Total Depth (TWD) Below Top of Casing = 16 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = dry 1/100 ft
Length of Water Column (LWC) = TWD - DGW = dry 1/100 ft
1 Casing Volume (OCV) = LWC x 0.041 = 0 gal
3 Casing Volumes = 0 gal
Method of Well Evacuation Peristaltic Pump
Method of Sample Collection Peristaltic Pump/Poly Tubing
Total Volume of Water Removed 0 gal

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260C)	0	HCL, 4°C	
Various	MNA	0	Various	

FIELD ANALYSES

Flow Rate (ml/min)
Time (Military)
Depth to Groundwater
Below Top of Casing (ft)
Drawdown (ft)
pH (S.U.)
Sp. Cond. (mS/cm)
Turbidity (NTUs)
Dissolved Oxygen (mg/L)
Water Temperature (°C)
ORP (mV)

NA							
NA							
well dry							
NA							
NA							
NA							
NA							
NA							
NA							

Physical appearance at start Color NA
Odor NA

Physical appearance at sampling Color NA
Odor NA

Sheen/Free Product NA

Sheen/Free Product NA

COMMENTS/OBSERVATIONS Well dry and not sampled.

Appendix B

Current and Historical Summary of Groundwater Elevations

MONITORING WELL MW-2
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
11/7/2003	7.29	683.06
4/8/2004	NM	NA
10/12/2004	NM	NA
1/6/2005	5.92	684.43
4/14/2005	6.50	683.85
7/20/2005	7.77	682.58
10/4/2005	6.08	684.27
1/5/2006	9.56	680.79
4/11/2006	6.65	683.70
7/10/2006	7.79	682.56
10/18/2006	6.11	684.24
1/9/2007	6.27	684.08
2/28/2007	5.20	685.15
4/16/2007	5.99	684.36
7/2/2007	7.22	683.13
10/15/2007	8.15	682.20
1/8/2008	5.73	684.62
4/2/2008	5.95	684.40
7/1/2008	4.90	685.45
9/30/2008	7.40	682.95
1/19/2009	6.75	683.60
4/14/2009	6.15	684.20
7/21/2009	6.25	684.10
10/14/2009	5.85	684.50
1/18/2010	7.00	683.35
4/8/2010	5.45	684.90
7/12/2010	6.10	684.25
10/11/2010	7.00	683.35
1/11/2011	6.80	683.55
4/4/2011	5.70	684.65
7/25/2011	4.75	685.60
10/3/2011	4.13	686.22
1/12/2012	6.40	683.95
4/2/2012	6.00	684.35
7/5/2012	6.47	683.88
10/11/2012	7.17	683.18
1/21/2013	6.72	683.63
4/1/2013	6.10	684.25
7/1/2013	6.84	683.51
10/9/2013	6.70	683.65
1/21/2014	6.00	684.35
4/7/2014	4.95	685.40
7/16/2014	6.72	683.63
10/14/2014	6.79	683.56
1/20/2015	7.12	683.23
4/6/2015	5.74	684.61
7/22/2015	6.19	684.16
10/19/2015	5.79	684.56
1/5/2016	6.41	683.94
4/4/2016	5.68	681.42
7/5/2016	5.56	683.12
10/24/2016	5.56	683.12
1/16/2017	6.21	682.47
4/18/2017	6.06	682.47
7/11/2017	6.92	681.76
10/23/2017	6.59	682.09
1/8/2018	6.61	680.39
4/11/2018	5.12	681.88
7/12/2018	6.71	680.29
10/19/2018	6.44	680.56
1/9/2019	5.65	681.35
4/8/2019	5.28	681.72
7/22/2019	6.30	680.70
10/14/2019	7.56	679.44

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 690.35

DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008.

DPE off line for repairs in October 2013.

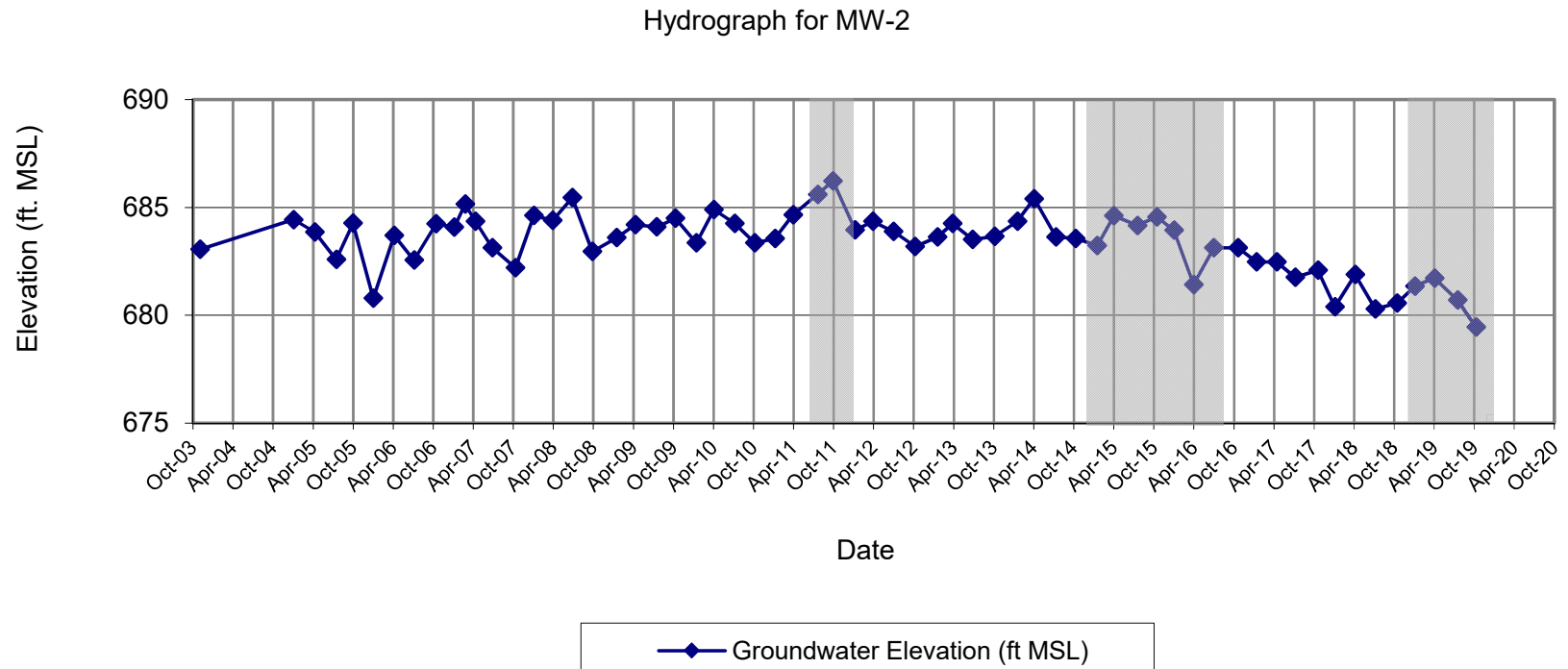
TOC Elevation re-measured June 13, 2008 at 687.1.

DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line November 2018 to accommodate ABC+ OLE injection pilot test (note shading on graph).

MONITORING WELL MW-2
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-3
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
11/7/2003	12.76	674.96
4/8/2004	NM	NA
10/12/2004	NM	NA
1/6/2005	11.65	676.07
4/14/2005	12.64	675.08
7/20/2005	12.73	674.99
10/4/2005	7.38	680.34
1/5/2006	11.31	676.41
4/11/2006	11.84	675.88
7/10/2006	12.31	675.41
10/18/2006	10.82	676.9
1/9/2007	10.99	676.73
2/28/2007	3.99	683.73
4/16/2007	11.87	675.85
7/2/2007	13.35	674.37
10/17/2007	13.1	674.62
1/8/2008	7.61	680.11
4/2/2008	11.71	676.01
7/1/2008	10.75	676.27
9/30/2008	11.95	675.07
1/19/2009	10.94	676.08
4/14/2009	10.94	676.08
7/21/2009	11.51	675.51
10/14/2009	10.75	676.27
1/18/2010	12.38	674.64
4/8/2010	11.02	676.00
7/12/2010	9.18	677.84
10/11/2010	10.9	676.12
1/12/2011	11.3	675.72
4/4/2011	10.7	676.32
7/25/2011	4.38	682.64
10/3/2011	3.14	683.88
1/12/2012	10.65	676.37
4/2/2012	9.81	677.21
7/5/2012	8.56	678.46
10/11/2012	9.77	677.25
1/21/2013	11.15	675.87
4/1/2013	8.56	678.46
7/1/2013	11.85	675.17
10/9/2013	10.43	676.59
1/21/2014	10.45	676.57
4/7/2014	11.77	675.25
7/16/2014	10.29	676.73
10/14/2014	9.65	677.37
1/20/2015	10.15	676.87
4/6/2015	8.94	678.08
7/22/2015	7.98	679.04
10/19/2015	5.15	681.87
1/5/2016	9.01	678.01
4/4/2016	8.00	679.05
7/5/2016	5.86	681.19
10/24/2016	5.86	681.19
1/16/2017	10.58	676.47
4/18/2017	12.29	674.76
7/11/2017	12.65	674.40
10/23/2017	11.80	675.25
1/8/2018	10.12	676.93
4/11/2018	9.58	677.47
7/12/2018	10.98	676.07
10/19/2018	13.40	673.65
1/9/2019	12.32	674.73
4/8/2019	10.09	676.96
7/22/2019	9.24	677.81
10/14/2019	8.61	678.44

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 687.72

DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008.

DPE off line for repairs in October 2013.

TOC Elevation re-measured June 13, 2008 at 687.02

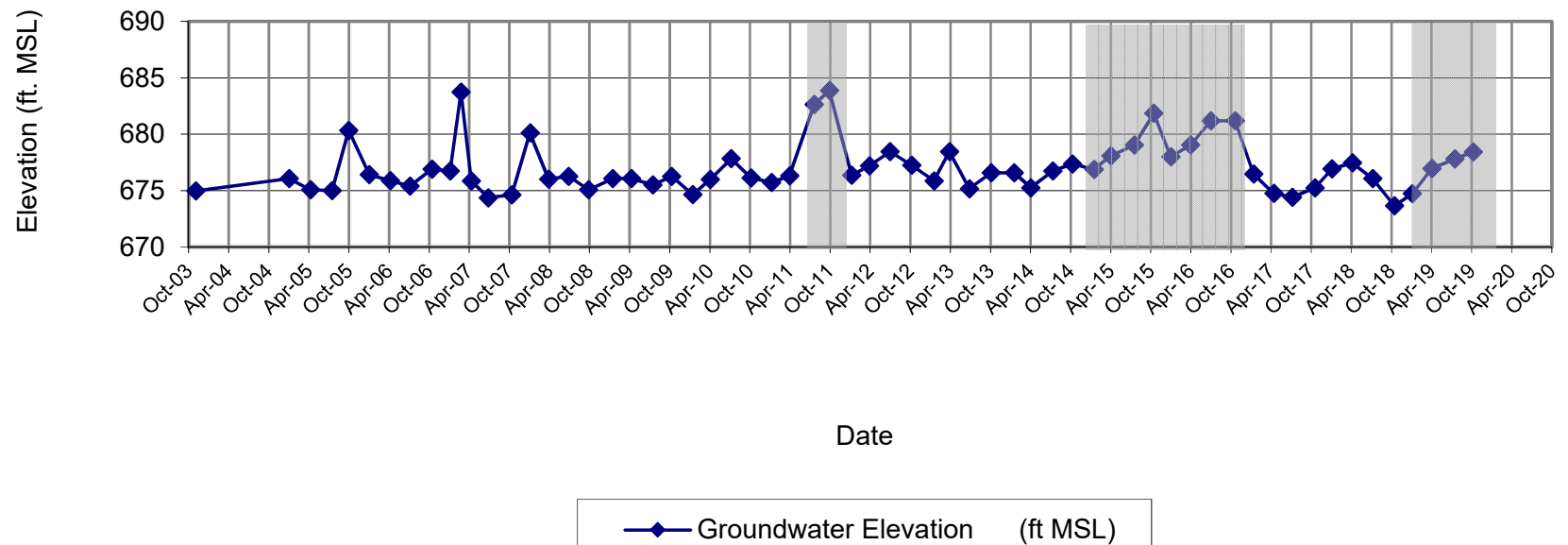
DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line November 2018 to accommodate ABC+ OLE injection pilot test (note shading on graph).

MONITORING WELL MW-3
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Hydrograph for MW-3



MONITORING WELL MW-4
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
11/7/2003	8.54	678.10
4/8/2004	NM	NA
10/12/2004	11.40	675.24
1/6/2005	9.20	677.44
4/14/2005	NM	NA
7/20/2005	NM	NA
10/4/2005	15.24	671.40
1/5/2006	15.71	670.93
4/11/2006	18.56	668.08
7/10/2006	15.02	671.62
10/18/2006	15.21	671.43
1/9/2007	14.00	672.64
2/28/2007	2.54	684.10
4/16/2007	12.45	674.19
7/2/2007	14.89	671.75
10/17/2007	12.91	673.73
1/8/2008	5.59	681.05
4/2/2008	9.31	677.33
7/1/2008	13.91	672.51
9/30/2008	13.55	672.87
1/19/2009	10.78	675.64
4/14/2009	8.90	677.52
7/21/2009	12.35	674.07
10/14/2009	10.40	676.02
1/18/2010	8.90	677.52
4/8/2010	10.90	675.52
7/12/2010	14.00	672.42
10/11/2010	16.69	669.73
1/12/2011	16.35	670.07
4/4/2011	17.67	668.75
7/25/2011	2.32	684.10
10/3/2011	2.98	683.44
1/12/2012	13.26	673.16
4/2/2012	13.10	673.32
7/6/2012	9.66	676.76
10/11/2012	18.60	667.82
1/21/2013	17.04	669.38
4/1/2013	18.65	667.77
7/1/2013	19.10	667.32
10/9/2013	10.10	676.32
1/21/2014	NM	NA
4/7/2014	18.85	667.57
7/16/2014	10.74	675.68
10/14/2014	8.52	677.90
1/20/2015	10.95	675.47
4/6/2015	9.05	677.37
7/22/2015	7.55	678.87
10/19/2015	4.59	681.83
1/5/2016	9.92	676.50
4/4/2016	8.20	678.30
7/5/2016	4.94	681.56
10/24/2016	4.94	681.56
1/16/2017	10.80	675.70
4/18/2017	11.92	675.70
7/11/2017	11.30	675.20
10/23/2017	13.06	673.44
1/8/2018	10.45	676.05
4/11/2018	10.55	675.95
7/12/2018	11.57	674.93
10/19/2018	11.57	674.93
1/9/2019	9.95	676.55
4/8/2019	8.83	677.67
7/22/2019	9.15	677.35
10/14/2019	8.39	678.11

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 686.64

DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008.

DPE off line for repairs in October 2013.

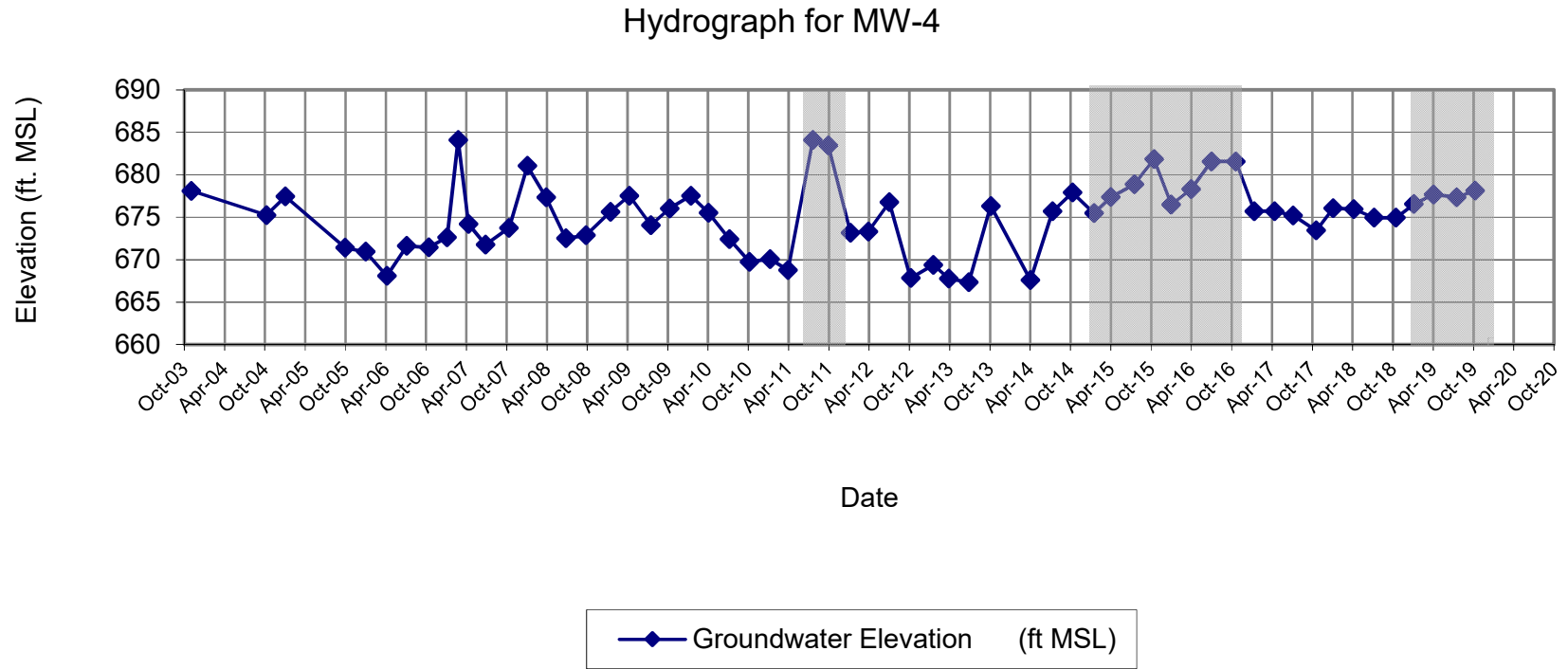
TOC Elevation re-measured on June 13, 2008 at 686.42.

DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line November 2018 to accommodate ABC+ OLE injection pilot test (note shading on graph).

MONITORING WELL MW-4
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-8R
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	NM	NA
10/12/2004	12.75	672.92
1/6/2005	7.45	678.22
4/14/2005	14.45	671.22
7/20/2005	NM	NA
10/4/2005	NM	NA
1/6/2006	15.51	670.16
4/11/2006	15.65	670.02
7/10/2006	14.9	670.77
10/18/2006	15.72	669.95
1/9/2007	15.76	669.91
2/28/2007	10.78	674.89
4/16/2007	15.60	670.07
7/2/2007	16.29	669.38
10/15/2007	18.50	667.17
1/8/2008	4.99	680.68
4/2/2008	13.19	672.48
7/1/2008	12.15	674.06
9/30/2008	15.83	670.38
1/19/2009	11.55	674.66
4/14/2009	11.20	675.01
7/21/2009	13.57	672.64
10/14/2009	12.76	673.45
1/18/2010	11.26	674.95
4/8/2010	14.95	671.26
7/12/2010	13.74	672.47
10/11/2010	12.34	673.87
1/12/2011	13.10	673.11
4/4/2011	14.88	671.33
7/25/2011	3.25	682.96
10/3/2011	4.50	681.71
1/12/2012	12.96	673.25
4/2/2012	11.70	674.51
7/5/2012	10.34	675.87
10/11/2012	13.38	672.83
1/21/2013	14.90	671.31
4/1/2013	10.82	675.39
7/1/2013	12.70	673.51
10/9/2013	9.25	676.96
1/21/2014	NM	NA
4/7/2014	14.55	671.66
7/16/2014	8.97	677.24
10/14/2014	5.85	680.36
1/20/2015	9.80	676.41
4/6/2015	7.55	678.66
7/22/2015	8.22	677.99
10/19/2015	4.90	681.31
1/5/2016	8.95	677.26
4/4/2016	8.10	678.19
7/5/2016	4.99	681.30
10/24/2016	4.99	681.30
1/16/2017	10.35	675.94
4/18/2017	13.68	675.94
7/11/2017	11.60	674.69
10/23/2017	12.06	674.23
4/11/2018	10.05	676.16
7/12/2018	18.78	667.43
10/19/2018	18.60	667.61
1/9/2019	7.95	678.26
4/8/2019	6.80	679.41
7/22/2019	8.00	678.21
10/14/2019	9.91	676.30

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 685.67

DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008.

DPE off line for repairs in October 2013.

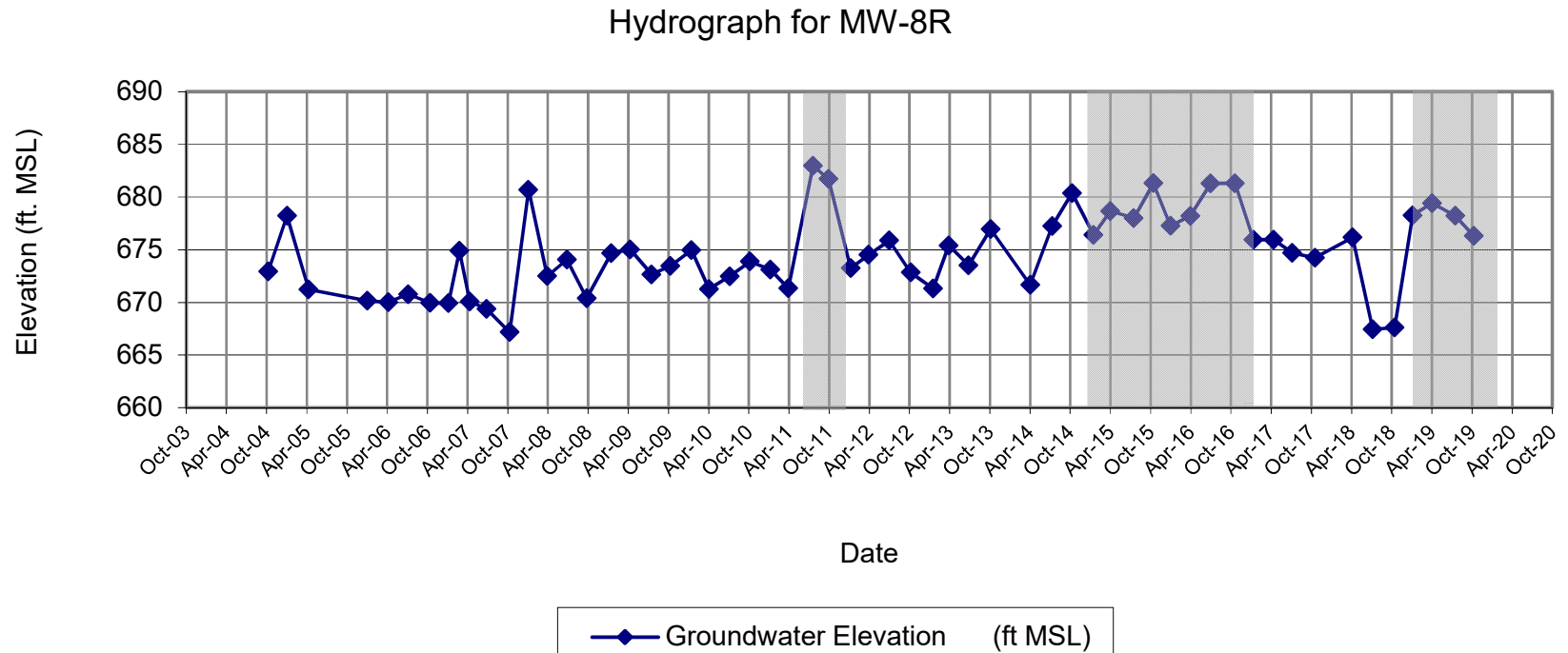
TOC Elevation re-measured on June 13, 2008 at 686.21.

DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line November 2018 to accommodate ABC+ OLE injection pilot test (note shading on graph).

MONITORING WELL MW-8R
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-9
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
11/7/2003	13.03	672.4
4/8/2004	NM	NA
10/12/2004	13.68	671.75
1/6/2005	12.89	672.54
4/14/2005	12.74	672.69
7/20/2005	13.88	671.55
10/4/2005	7.22	678.21
1/5/2006	12.79	672.64
4/11/2006	13.50	671.93
7/10/2006	13.24	672.19
10/18/2006	11.00	674.43
1/9/2007	12.24	673.19
2/28/2007	1.66	683.77
4/16/2007	13.15	672.28
7/2/2007	13.00	672.43
10/17/2007	13.95	671.48
1/8/2008	6.70	678.73
4/2/2008	10.61	674.82
7/1/2008	14.25	674.39
9/30/2008	15.67	672.97
1/19/2009	14.48	674.16
4/14/2009	15.48	673.16
7/21/2009	15.20	673.44
10/10/2009	15.06	673.58
1/18/2010	17.00	671.64
4/8/2010	15.40	673.24
7/12/2010	12.42	676.22
10/11/2010	14.21	674.43
1/12/2011	15.29	673.35
4/4/2011	14.55	674.09
7/25/2011	5.75	682.89
10/3/2011	4.58	684.06
1/12/2012	14.75	673.89
4/2/2012	14.52	674.12
7/5/2012	11.48	677.16
10/11/2012	12.66	675.98
1/21/2013	14.44	674.20
4/1/2013	11.87	676.77
7/1/2013	16.54	672.10
10/9/2013	13.68	674.96
1/21/2014	15.38	673.26
4/7/2014	16.30	672.34
7/16/2014	13.71	674.93
10/14/2014	13.09	675.55
1/20/2015	13.92	674.72
4/6/2015	12.41	676.23
7/22/2015	10.72	677.92
10/19/2015	7.06	681.58
1/5/2016	12.09	676.55
4/4/2016	11.38	678.19
7/5/2016	7.41	682.16
10/24/2016	7.41	682.16
1/16/2017	13.72	675.85
4/18/2017	14.24	675.85
7/11/2017	15.00	674.57
10/23/2017	14.84	674.73
1/8/2018	13.04	676.53
4/11/2018	13.20	676.37
7/12/2018	14.49	675.08
10/19/2018	14.21	675.36
1/9/2019	13.49	676.08
4/8/2019	12.85	676.72
7/22/2019	12.61	676.96
10/14/2019	11.83	677.74

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 685.43

DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008.

DPE off line for repairs in October 2013.

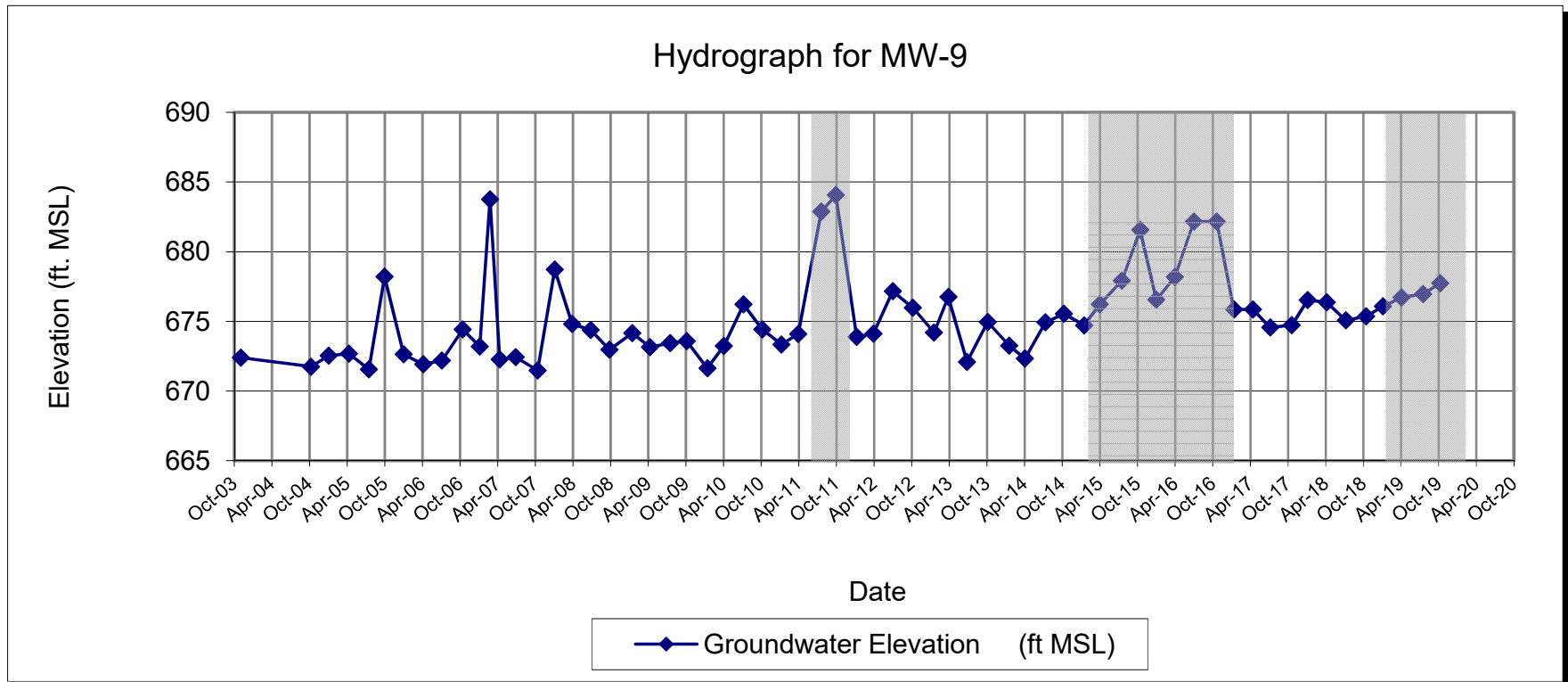
TOC Elevation re-measured on June 13, 2008 at 688.64.

DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phase of the ABC+ injection pilot test (note shading on graph).

DPE system off line November 2018 to accommodate ABC+ OLE injection pilot test (note shading on graph).

MONITORING WELL MW-9
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-11
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	NM	NA
10/12/2004	NM	NA
1/6/2005	15.59	673.02
4/14/2005	11.59	677.02
7/20/2005	17.34	671.27
10/4/2005	10.45	678.16
1/5/2006	16.58	672.03
4/11/2006	13.52	675.09
7/10/2006	13.75	674.86
10/18/2006	14.35	674.26
1/9/2007	15.26	673.35
2/28/2007	6.34	682.27
4/16/2007	11.55	677.06
7/2/2007	17.30	671.31
10/16/2007	17.69	670.92
1/8/2008	11.73	676.88
4/2/2008	14.78	673.83
7/1/2008	13.91	674.74
9/30/2008	15.25	673.40
1/19/2009	13.45	675.20
4/14/2009	13.50	675.15
7/21/2009	14.51	674.14
10/14/2009	13.85	674.80
1/18/2010	16.38	672.27
4/8/2010	13.90	674.75
7/12/2010	12.60	676.05
10/11/2010	14.80	673.85
1/12/2011	NM	NA
4/4/2011	14.52	674.13
7/25/2011	4.48	684.17
10/3/2011	4.05	684.60
1/12/2012	8.96	679.69
4/2/2012	12.87	675.78
7/5/2012	10.53	678.12
10/11/2012	14.40	674.25
1/21/2013	14.75	673.90
4/1/2013	11.66	676.99
7/1/2013	14.99	673.66
10/9/2013	12.25	676.40
1/21/2014	13.75	674.90
4/7/2014	14.56	674.09
7/16/2014	12.64	676.01
10/14/2014	12.26	676.39
1/20/2015	12.31	676.34
4/6/2015	11.95	676.70
7/22/2015	8.49	680.16
10/19/2015	8.75	679.90
1/5/2016	12.53	676.12
4/4/2016	10.84	677.77
7/5/2016	9.37	679.24
10/24/2016	9.37	679.24
1/16/2017	9.60	679.01
4/18/2017	11.98	679.01
7/11/2017	13.75	674.86
10/23/2017	12.83	675.78
1/8/2018	11.79	676.82
4/11/2018	10.75	677.86
7/12/2018	13.21	675.40
10/19/2018	12.40	676.21
1/9/2019	12.27	676.34
4/8/2019	11.66	676.95
7/22/2019	11.45	677.16
10/14/2019	11.59	677.02

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 688.61

DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008.

DPE off line for repairs in October 2013.

TOC Elevation re-measured on June 13, 2008 at 688.65.

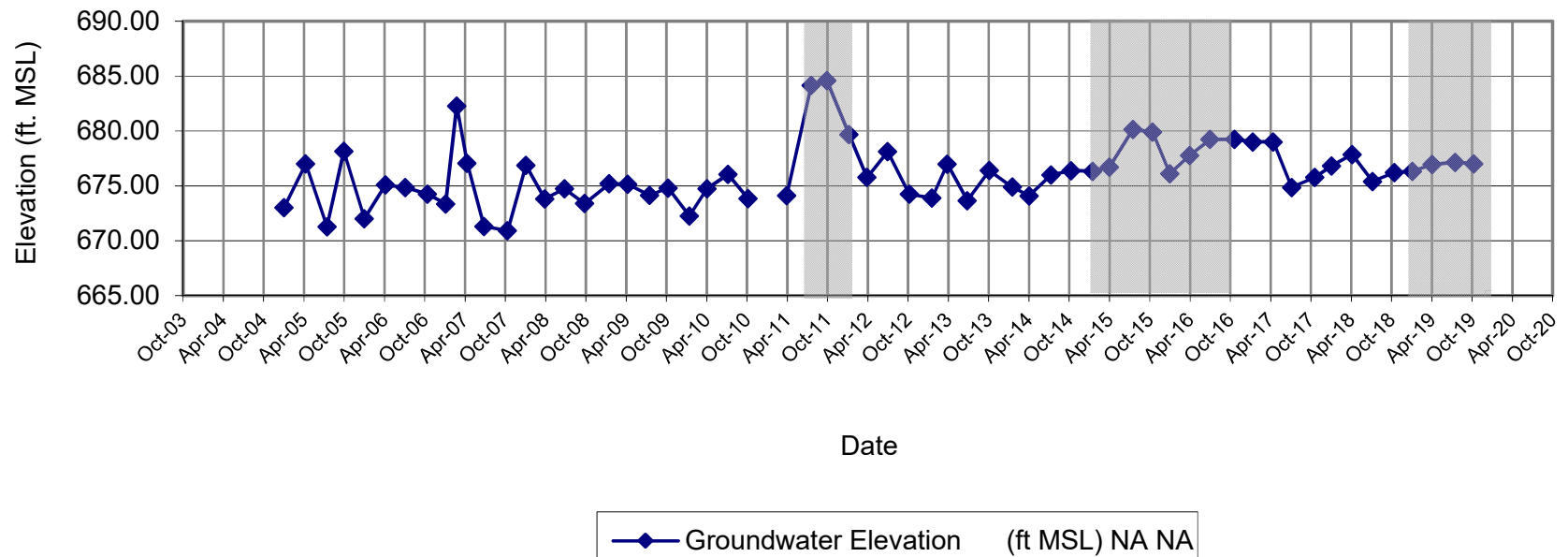
DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line November 2018 to accommodate ABC+ OLE injection pilot test (note shading on graph).

MONITORING WELL MW-11
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Hydrograph for MW-11



MONITORING WELL MW-13S
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	7.01	679.56
10/12/2004	13.47	673.10
1/6/2005	7.24	679.33
4/14/2005	13.91	672.66
7/20/2005	12.81	673.76
10/4/2005	13.35	673.22
1/5/2006	13.79	672.78
4/11/2006	12.45	674.12
7/10/2006	13.02	673.55
10/18/2006	10.99	675.58
1/9/2007	11.35	675.22
2/28/2007	3.49	683.08
4/16/2007	12.01	674.56
7/2/2007	13.20	673.37
10/18/2007	12.77	673.80
1/8/2008	5.08	681.49
4/2/2008	5.45	681.12
7/1/2008	9.70	676.90
9/30/2008	11.80	674.80
1/19/2009	8.70	677.90
4/14/2009	8.64	677.96
7/21/2009	10.91	675.69
10/14/2009	9.18	677.42
1/18/2010	9.80	676.80
4/8/2010	8.30	678.30
7/12/2010	9.96	676.64
10/11/2010	10.29	676.31
1/12/2011	7.53	679.07
4/4/2011	8.00	678.60
7/25/2011	2.55	684.05
10/3/2011	1.81	684.79
1/12/2012	8.11	678.49
4/2/2012	8.06	678.54
7/5/2012	8.71	677.89
10/11/2012	9.57	677.03
1/21/2013	13.85	672.75
4/1/2013	6.44	680.16
7/1/2013	6.44	680.16
10/9/2013	4.10	682.50
1/21/2014	4.95	681.65
4/7/2014	6.02	680.58
7/16/2014	5.42	681.18
10/14/2014	4.41	682.19
1/20/2015	6.10	680.50
4/6/2015	4.69	681.91
7/22/2015	7.97	678.63
10/19/2015	3.95	682.65
1/5/2016	5.90	680.70
4/4/2016	5.05	681.60
7/5/2016	3.90	682.75
10/24/2016	3.90	682.75
1/16/2017	7.20	679.45
4/18/2017	6.11	679.45
7/11/2017	8.60	678.05
10/23/2017	6.42	680.23
1/8/2018	4.73	681.92
4/11/2018	4.20	682.45
7/12/2018	7.02	679.63
10/19/2018	15.86	670.79
1/9/2019	9.71	676.94
4/8/2019	5.35	681.30
7/22/2019	16.50	670.15
10/14/2019	16.50	670.15

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 686.57

DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008.

DPE off line for repairs in October 2013.

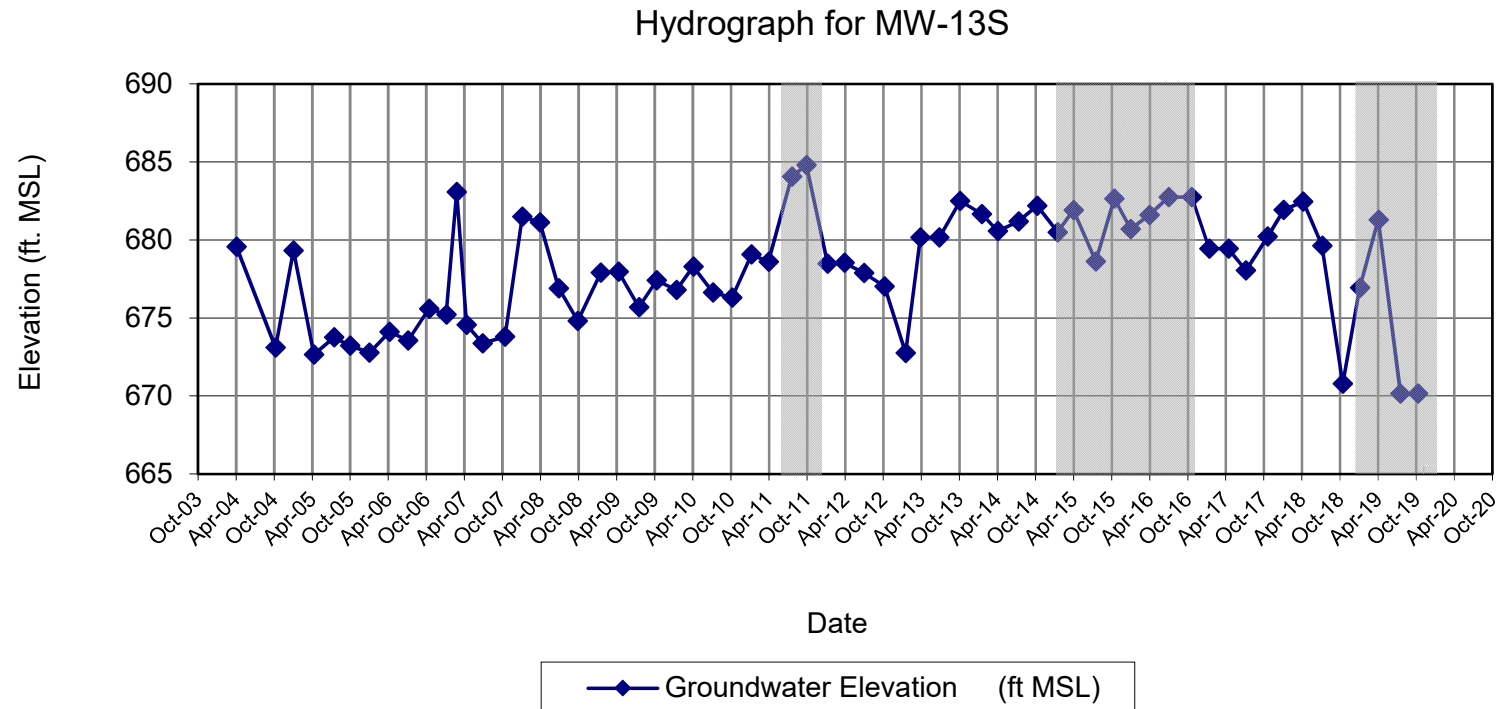
TOC Elevation re-measured on June 13, 2008 at 686.60.

DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line November 2018 to accommodate ABC+ OLE injection pilot test (note shading on graph).

MONITORING WELL MW-13S
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-13D
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	13.28	673.43
10/12/2004	14.87	671.84
1/6/2005	14.55	672.16
4/14/2005	15.32	671.39
7/20/2005	15.65	671.06
10/4/2005	9.44	677.27
1/5/2006	15.83	670.88
4/11/2006	15.41	671.30
7/10/2006	13.79	672.92
10/18/2006	13.17	673.54
1/9/2007	14.41	672.30
2/28/2007	3.28	683.43
4/16/2007	14.66	672.05
7/2/2007	15.68	671.03
10/18/2007	15.80	670.91
1/8/2008	8.69	678.02
4/2/2008	12.86	673.85
7/1/2008	12.55	674.18
9/30/2008	13.89	672.84
1/19/2009	12.10	674.63
4/14/2009	11.78	674.95
7/21/2009	12.86	673.87
10/14/2009	11.59	675.14
1/18/2010	13.88	672.85
4/8/2010	12.00	674.73
7/12/2010	11.90	674.83
10/11/2010	13.34	673.39
1/12/2011	13.2	673.53
4/4/2011	13.13	673.60
7/25/2011	3.33	683.40
10/3/2011	2.55	684.18
1/12/2012	12.34	674.39
4/2/2012	11.76	674.97
7/5/2012	9.25	677.48
10/11/2012	13.00	673.73
1/21/2013	13.85	672.88
4/1/2013	11.01	675.72
7/1/2013	14.26	672.47
10/9/2013	10.36	676.37
1/21/2014	11.45	675.28
4/7/2014	13.65	673.08
7/16/2014	10.74	675.99
10/14/2014	9.41	677.32
1/20/2015	11.02	675.71
4/6/2015	9.35	677.38
7/22/2015	7.44	679.29
10/19/2015	4.55	682.18
1/5/2016	10.31	676.42
4/4/2016	8.65	678.13
7/5/2016	5.06	681.72
10/24/2016	5.06	681.72
1/16/2017	12.50	674.28
4/18/2017	10.10	674.28
7/11/2017	11.15	675.63
10/23/2017	10.87	675.91
1/8/2018	9.12	677.66
4/11/2018	8.70	678.08
7/12/2018	10.91	675.87
10/19/2018	10.86	675.92
1/9/2019	9.85	676.93
4/8/2019	9.00	677.78
7/22/2019	9.79	676.99
10/14/2019	8.87	677.91

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 686.71

DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008.

DPE off line for repairs in October 2013.

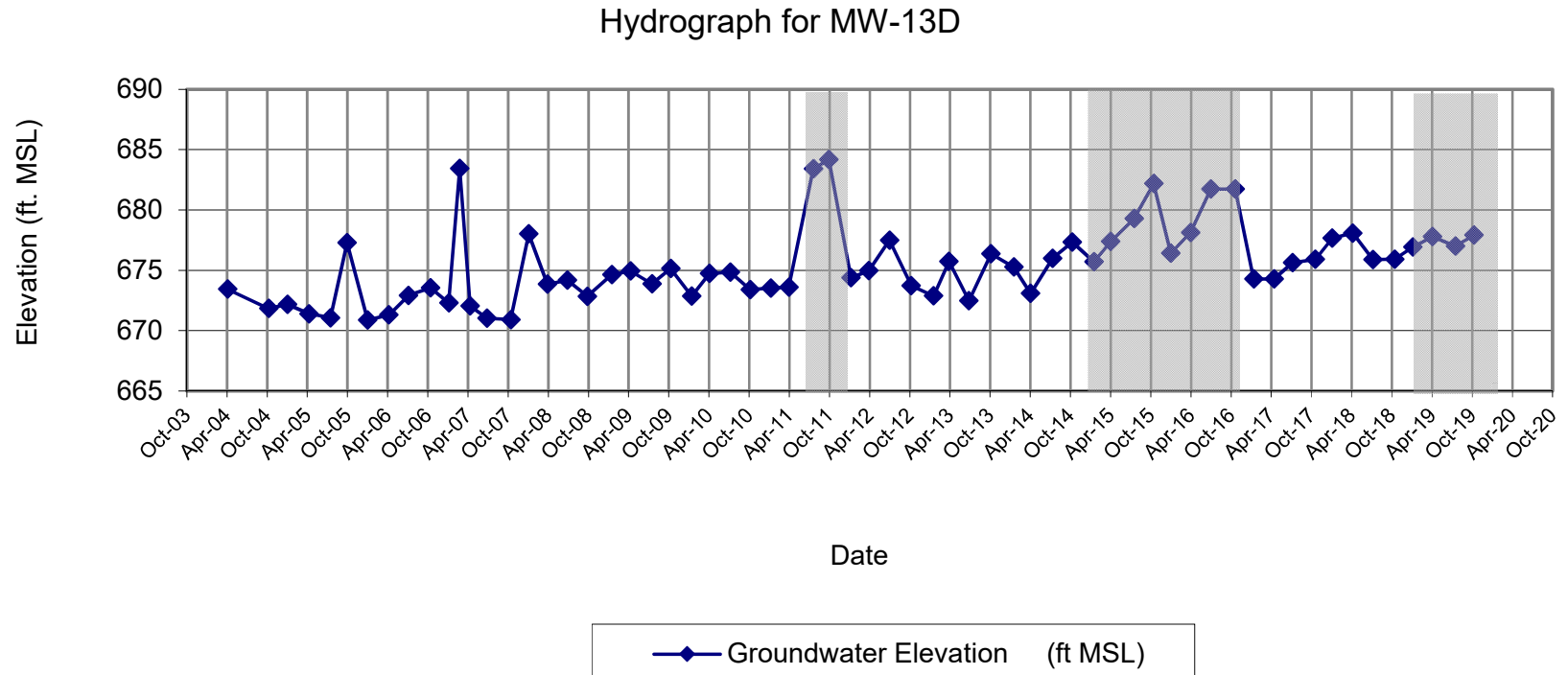
TOC Elevation re-measured on June 13, 2008 at 686.73.

DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line November 2018 to accommodate ABC+ OLE injection pilot test (note shading on graph).

MONITORING WELL MW-13D
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-14S
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	5.14	680.17
10/12/2004	8.57	676.74
1/6/2005	6.27	679.04
4/14/2005	5.16	680.15
7/20/2005	8.32	676.99
10/4/2005	6.14	679.17
1/5/2006	8.41	676.90
4/11/2006	7.75	677.56
7/10/2006	8.18	677.13
10/18/2006	9.00	676.31
1/9/2007	6.61	678.70
2/28/2007	1.50	683.81
4/16/2007	3.45	681.86
7/2/2007	8.36	676.95
10/15/2007	9.45	675.86
1/8/2008	4.65	680.66
4/2/2008	4.47	680.84
7/1/2008	6.37	679.33
9/30/2008	8.90	676.80
1/19/2009	6.15	679.55
4/14/2009	7.70	678.00
7/21/2009	7.25	678.45
10/14/2009	7.05	678.65
1/18/2010	NM	NA
4/8/2010	6.50	678.81
7/12/2010	6.54	678.77
10/11/2010	5.90	679.80
1/12/2011	6.83	678.87
4/4/2011	6.34	679.36
7/25/2011	2.59	683.11
10/3/2011	1.98	683.72
1/12/2012	5.10	680.60
4/2/2012	4.55	681.15
7/5/2012	7.15	678.55
10/11/2012	6.67	679.03
1/21/2013	5.15	680.55
4/1/2013	5.05	680.65
7/1/2013	6.81	678.89
10/9/2013	5.60	680.10
1/21/2014	5.68	680.02
4/7/2014	6.03	679.67
7/16/2014	5.49	680.21
10/14/2014	5.61	680.09
1/20/2015	5.55	680.15
4/6/2015	4.58	681.12
7/22/2015	3.59	682.11
10/19/2015	3.70	682.00
1/5/2016	3.92	681.78
4/4/2016	8.80	676.90
7/5/2016	3.80	681.90
10/24/2016	3.80	681.90
1/16/2017	5.10	680.60
4/18/2017	5.44	680.26
7/11/2017	7.50	678.20
10/23/2017	7.18	678.52
1/8/2018	5.39	680.35
4/11/2018	5.14	680.60
7/12/2018	7.25	678.49
10/19/2018	6.89	678.85
1/9/2019	4.30	681.44
4/8/2019	4.40	681.34
7/22/2019	8.60	677.14
10/14/2019	5.14	680.60

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 685.31

DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008.

DPE off line for repairs in October 2013.

TOC Elevation re-measured on June 13, 2008 at 685.70.

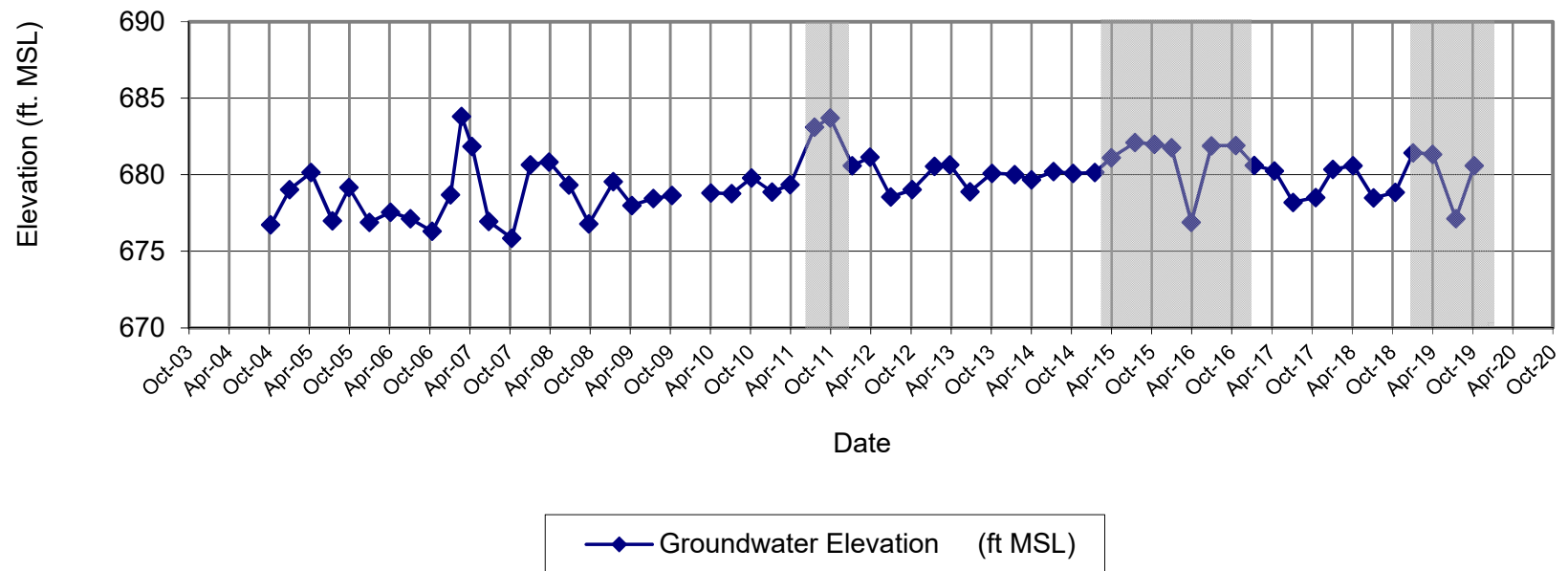
DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line November 2018 to accommodate ABC+ OLE injection pilot test (note shading on graph).

MONITORING WELL MW-14S
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Hydrograph for MW-14S



MONITORING WELL MW-14D
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	13.21	672.22
10/12/2004	14.55	670.88
1/6/2005	15.97	669.46
4/14/2005	13.25	672.18
7/20/2005	18.20	667.23
10/4/2005	13.26	672.17
1/5/2006	19.08	666.35
4/11/2006	19.79	665.64
7/10/2006	17.16	668.27
10/18/2006	19.44	665.99
1/9/2007	14.71	670.72
2/28/2007	2.67	682.76
4/16/2007	19.74	665.69
7/2/2007	19.68	665.75
10/15/2007	19.76	665.67
1/8/2008	7.92	677.51
4/2/2008	14.41	671.02
7/1/2008	14.45	671.37
9/30/2008	15.39	670.43
1/19/2009	13.55	672.27
4/14/2009	20.10	665.72
7/21/2009	15.15	670.67
10/14/2009	20.27	665.55
1/18/2010	20.40	665.42
4/8/2010	15.40	670.42
7/12/2010	17.15	668.67
10/11/2010	14.40	671.42
1/12/2011	17.92	667.90
4/4/2011	16.23	669.59
7/25/2011	3.10	682.72
10/3/2011	2.72	683.10
1/12/2012	15.30	670.52
4/2/2012	16.50	669.32
7/5/2012	12.81	673.01
10/11/2012	14.55	671.27
1/21/2013	13.45	672.37
4/1/2013	10.78	675.04
7/1/2013	19.85	665.97
10/9/2013	10.02	675.80
1/21/2014	18.20	667.62
4/7/2014	17.95	667.87
7/16/2014	12.99	672.83
10/14/2014	10.70	675.12
1/20/2015	13.49	672.33
4/6/2015	11.30	674.52
7/22/2015	8.62	677.20
10/19/2015	4.10	681.72
1/5/2016	11.70	674.12
4/4/2016	17.98	667.90
7/5/2016	4.67	681.21
10/24/2016	4.67	681.21
1/16/2017	15.89	669.99
4/18/2017	12.45	669.99
7/11/2017	14.74	671.14
10/23/2017	17.02	668.86
1/8/2018	17.69	668.19
4/11/2018	15.95	669.93
7/12/2018	16.90	668.98
10/19/2018	15.69	670.19
1/9/2019	12.62	673.26
4/8/2019	11.80	674.08
7/22/2019	11.35	674.53
10/14/2019	11.88	674.00

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 685.43

DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008.

DPE off line for repairs in October 2013.

TOC Elevation re-measured on June 13, 2008 at 685.82.

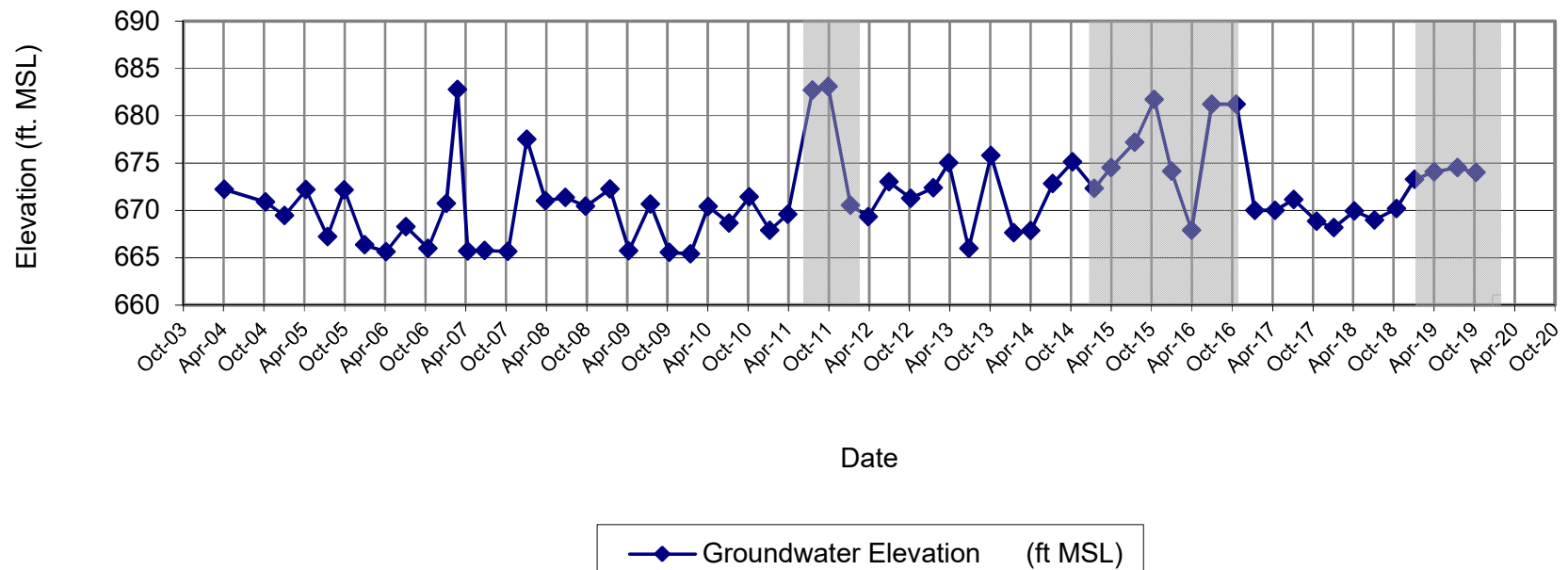
DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line November 2018 to accommodate ABC+ OLE injection pilot test (note shading on graph).

MONITORING WELL MW-14D
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Hydrograph for MW-14D



MONITORING WELL MW-15S
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	1.20	685.44
10/12/2004	5.26	681.38
1/6/2005	0.35	686.29
4/14/2005	2.31	684.33
7/20/2005	4.78	681.86
10/4/2005	2.22	684.42
1/5/2006	0.70	685.94
4/11/2006	2.00	684.64
7/10/2006	4.75	681.89
1/9/2007	0.05	686.59
2/28/2007	0.00	686.64
4/16/2007	0.50	686.14
7/2/2007	4.67	681.97
10/16/2007	4.80	681.84
1/8/2008	0.70	685.94
4/2/2008	0.00	686.64
7/1/2008	0.50	687.02
9/30/2008	3.14	684.38
1/19/2009	1.50	686.02
4/14/2009	1.60	685.92
7/21/2009	1.11	686.41
10/14/2009	1.11	686.41
1/18/2010	0.80	686.72
4/8/2010	2.00	685.52
7/12/2010	2.80	684.72
10/11/2010	3.14	684.38
1/12/2011	1.40	686.12
4/4/2011	0.50	687.02
7/25/2011	2.51	685.01
10/3/2011	0.20	687.32
1/12/2012	0.50	687.02
4/2/2012	1.40	686.12
7/5/2012	3.90	683.62
10/1/2012	3.18	684.34
1/21/2013	0.00	687.52
4/1/2013	0.50	687.02
7/1/2013	1.73	685.79
10/9/2013	2.10	685.42
1/21/2014	1.75	685.77
4/7/2014	0.90	686.62
7/16/2014	1.91	685.61
10/14/2014	2.00	685.52
1/20/2015	1.60	685.92
4/6/2015	0.51	687.01
7/22/2015	1.41	686.11
10/19/2015	2.20	685.32
1/5/2016	1.15	686.37
4/4/2016	0.70	687.17
7/5/2016	3.61	683.56
10/24/2016	3.61	683.56
1/16/2017	1.20	685.97
4/18/2017	0.90	685.97
7/11/2017	4.30	682.87
10/23/2017	2.55	684.62
1/8/2018	0.00	687.17
4/11/2018	0.00	687.17
7/12/2018	0.35	686.82
10/19/2018	0.44	686.73
1/9/2019	0.22	686.95
4/8/2019	0.00	687.17
7/22/2019	2.95	684.22
10/14/2019	1.32	685.85

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 686.64

DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008.

DPE off line for repairs in October 2013.

Measured from ground surface on April 4, 2016 at 687.87.

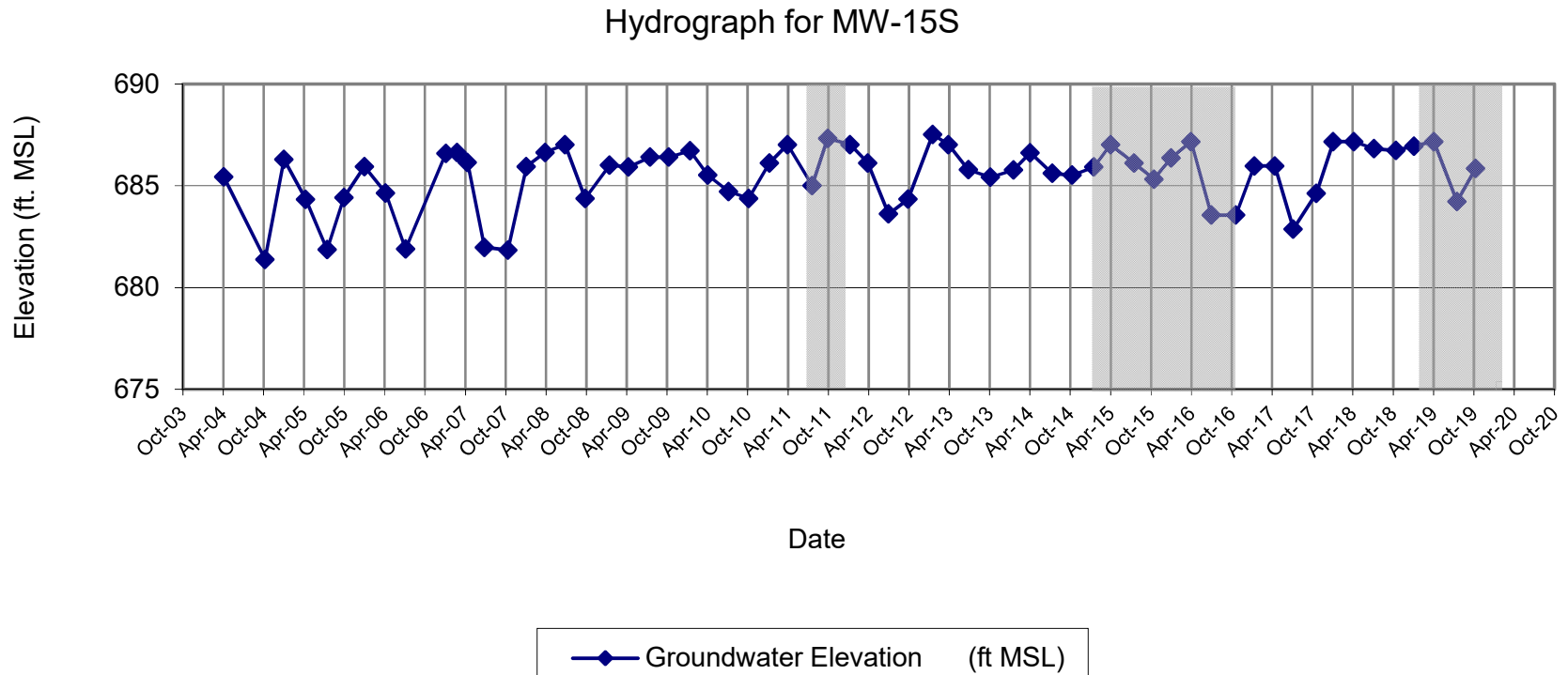
TOC Elevation re-measured on June 13, 2008 at 687.52.

DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line November 2018 to accommodate ABC+ OLE injection pilot test (note shading on graph).

MONITORING WELL MW-15S
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-15D
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	15.70	671.61
10/12/2004	17.42	669.89
1/6/2005	15.74	671.57
4/14/2005	16.99	670.32
7/20/2005	17.31	670.00
10/4/2005	8.94	678.37
1/5/2006	16.16	671.15
4/11/2006	16.90	670.41
7/10/2006	15.78	671.53
10/18/2006	15.50	671.81
1/9/2007	15.80	671.51
2/28/2007	4.10	683.21
4/16/2007	16.61	670.70
7/2/2007	17.20	670.11
10/16/2007	16.70	670.61
1/8/2008	8.99	678.32
4/2/2008	15.01	672.30
7/1/2008	14.64	672.98
9/30/2008	16.24	671.38
1/19/2009	15.00	672.62
4/14/2009	14.21	673.41
7/21/2009	14.61	673.01
10/14/2009	14.81	672.81
1/18/2010	16.89	670.73
4/8/2010	15.00	672.62
7/12/2010	13.00	674.62
10/11/2010	13.00	674.62
1/12/2011	15.65	671.97
4/4/2011	15.51	672.11
7/25/2011	3.73	683.89
10/3/2011	3.05	684.57
1/12/2012	15.50	672.12
4/2/2012	14.30	673.32
7/5/2012	9.81	677.81
10/11/2012	13.70	673.92
1/21/2013	15.90	671.72
4/1/2013	11.08	676.54
7/1/2013	16.04	671.58
10/9/2013	13.95	673.67
1/21/2014	15.05	672.57
4/7/2014	15.84	671.78
7/16/2014	13.51	674.11
10/14/2014	12.49	675.13
1/20/2015	15.04	672.58
4/6/2015	13.15	674.47
7/22/2015	9.92	677.70
10/19/2015	6.50	681.12
1/5/2016	13.65	673.97
4/4/2016	11.70	676.17
7/5/2016	5.85	681.52
10/24/2016	5.85	681.52
1/16/2017	13.56	673.81
4/18/2017	13.40	673.97
7/11/2017	14.06	673.31
10/23/2017	14.21	673.16
1/8/2018	13.08	674.79
4/11/2018	11.70	676.17
7/12/2018	14.19	673.68
10/19/2018	13.83	674.04
1/9/2019	13.17	674.70
4/8/2019	12.80	675.07
7/22/2019	12.66	675.21
10/14/2019	11.97	675.90

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 687.31'

DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008.

DPE off line for repairs in October 2013.

TOC Elevation re-measured on June 13, 2008 at 687.62.

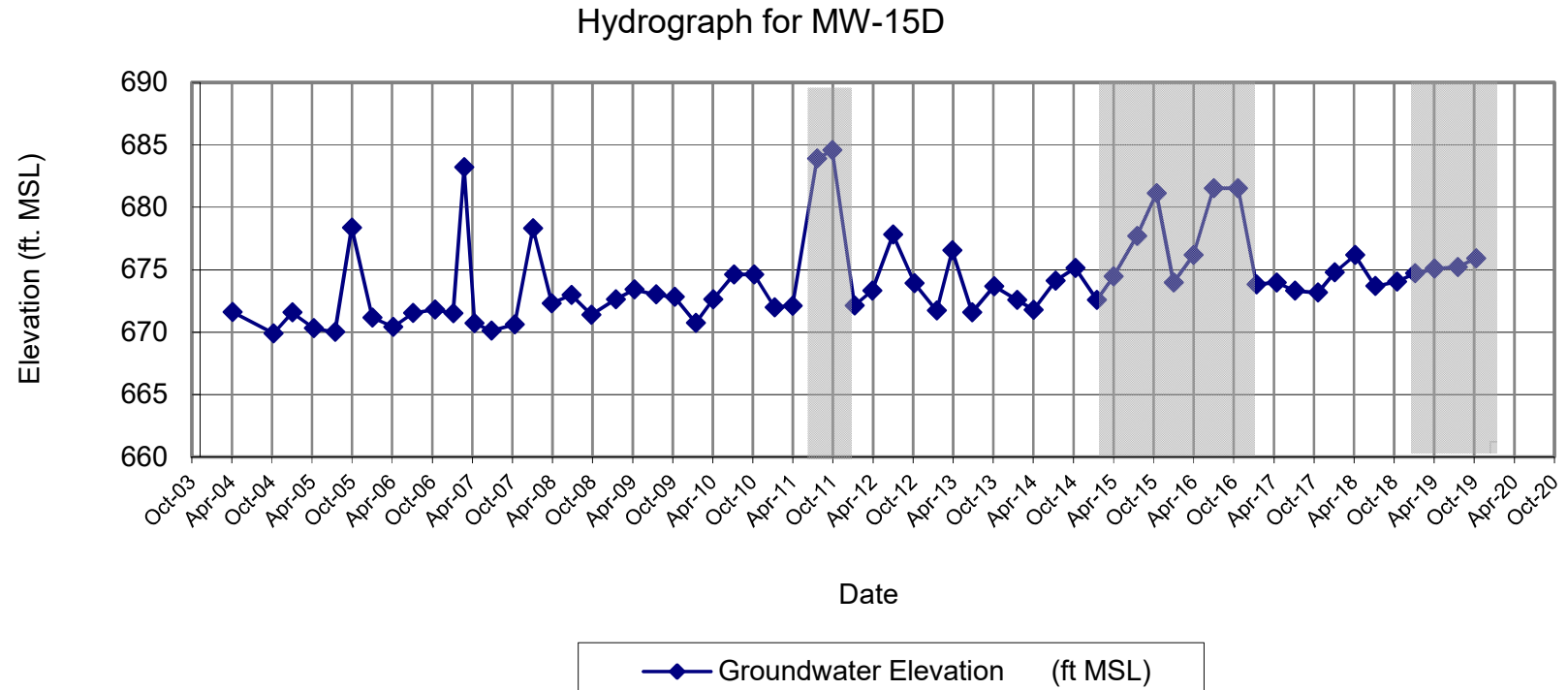
Measured from ground surface on April 4, 2016 at 687.87.

DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

DPE system off line November 2018 to accommodate ABC+ OLE injection pilot test (note shading on graph).

MONITORING WELL MW-15D
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-16S
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	5.09	680.75
10/12/2004	12.09	673.75
1/6/2005	4.75	681.09
4/14/2005	10.15	675.69
7/20/2005	14.56	671.28
10/4/2005	11.50	674.34
1/5/2006	11.41	674.43
4/11/2006	12.90	672.94
7/10/2006	11.54	674.30
10/18/2006	12.50	673.34
1/9/2007	13.82	672.02
2/28/2007	2.90	682.94
4/16/2007	13.07	672.77
7/2/2007	12.50	673.34
10/18/2007	15.23	670.61
1/8/2008	5.60	680.24
4/2/2008	12.40	673.44
7/1/2008	15.70	674.67
9/30/2008	19.34	671.03
1/19/2009	17.80	672.57
4/14/2009	18.22	672.15
7/21/2009	19.95	670.42
10/14/2009	17.77	672.60
1/18/2010	16.45	673.92
4/8/2010	18.60	671.77
7/12/2010	18.45	671.92
10/11/2010	13.51	676.86
4/7/2011	8.55	677.29
7/25/2011	1.45	684.39
10/3/2011	0.60	685.24
1/12/2012	3.80	682.04
4/2/2012	5.85	679.99
7/5/2012	9.12	676.72
10/11/2012	6.36	679.48
1/21/2013	7.85	677.99
4/1/2013	10.15	675.69
7/1/2013	9.18	676.66
10/9/2013	3.80	682.04
1/21/2014	9.55	676.29
4/7/2014	9.60	676.24
7/16/2014	9.05	676.79
10/14/2014	3.10	682.74
1/20/2015	6.90	678.94
4/6/2015	5.50	680.34
7/22/2015	10.14	678.05
10/19/2015	5.00	683.19
1/5/2016	7.05	681.14
4/4/2016	6.38	681.77
7/5/2016	5.23	682.92
10/24/2016	5.23	682.92
1/16/2017	8.25	679.90
4/18/2017	7.28	679.90
7/11/2017	10.36	677.79
10/23/2017	8.66	679.49
1/8/2018	6.29	681.86
4/11/2018	6.71	681.44
7/12/2018	8.99	679.16
10/19/2018	10.42	677.73
1/9/2019	6.86	681.29
4/8/2019	6.02	682.13
7/22/2019	6.91	681.24
10/14/2019	6.02	682.13

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 685.84

DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008.

DPE off line for repairs in October 2013.

TOC Elevation re-measured on June 13, 2008 at 690.37.

TOC Elevation re-measured on April 7, 2011 at 685.84.

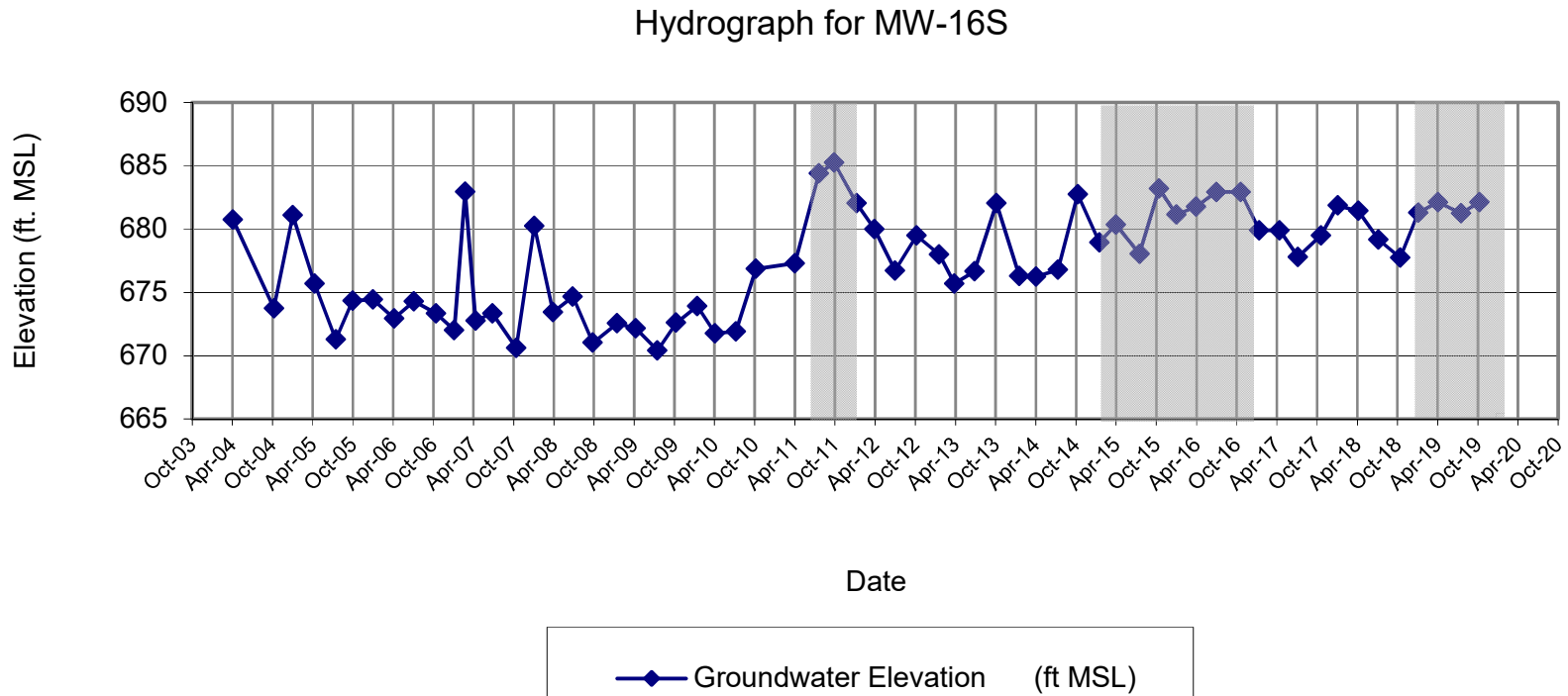
TOC Elevation re-measured on June 1, 2015 at 688.19.

TOC Elevation re-measured on February 23, 2016 at 688.15.

DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

MONITORING WELL MW-16S
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-16D
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	13.62	672.39
10/12/2004	15.51	670.50
1/6/2005	13.70	672.31
4/14/2005	16.09	669.92
7/20/2005	16.65	669.36
10/4/2005	9.89	676.12
1/5/2006	17.21	668.80
4/11/2006	17.1	668.91
7/10/2006	10.61	675.4
10/18/2006	15.41	670.6
1/9/2007	15.6	670.41
2/28/2007	2.74	683.27
4/16/2007	16.35	669.66
7/2/2007	16.85	669.16
10/18/2007	17.17	668.84
1/8/2008	8.32	677.69
4/2/2008	13.44	672.57
7/1/2008	17.72	672.83
9/30/2008	19.29	671.26
1/19/2009	17.95	672.60
4/14/2009	17.21	673.34
7/21/2009	18.28	672.27
10/14/2009	17.60	672.95
1/18/2010	19.51	671.04
4/8/2010	17.19	673.36
7/12/2010	17.15	673.40
10/11/2010	18.63	671.92
4/7/2011	13.67	672.34
7/25/2011	2.46	683.55
10/3/2011	1.70	684.31
1/12/2012	13.55	672.46
4/2/2012	12.61	673.40
7/5/2012	8.90	677.11
10/11/2012	13.38	672.63
1/21/2013	15.44	670.57
4/1/2013	12.31	673.70
7/1/2013	16.25	669.76
10/9/2013	11.40	674.61
1/21/2014	13.35	672.66
4/7/2014	15.54	670.47
7/16/2014	11.73	674.28
10/14/2014	10.04	675.97
1/20/2015	12.31	673.70
4/6/2015	10.30	675.71
7/22/2015	9.80	678.59
10/19/2015	6.40	681.99
1/5/2016	13.00	675.39
4/4/2016	11.35	676.81
7/5/2016	6.49	681.67
10/24/2016	6.49	681.67
1/16/2017	14.28	673.88
4/18/2017	13.24	673.88
7/11/2017	14.25	673.91
10/23/2017	14.72	673.44
1/8/2018	12.38	675.78
4/11/2018	11.67	676.49
7/12/2018	14.20	673.96
10/19/2018	14.32	673.84
1/9/2019	12.82	675.34
4/8/2019	11.78	676.38
7/22/2019	12.13	676.03
10/14/2019	11.32	676.84

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 686.01

DPE and GWCT off line for repairs in February 2007.

DPE off line for repairs in January 2008.

DPE off line for repairs in October 2013.

TOC Elevation re-measured on June 13, 2008 at 690.55.

TOC Elevation re-measured on April 7, 2011 at 686.01.

TOC Elevation re-measured on June 1, 2015 at 688.39.

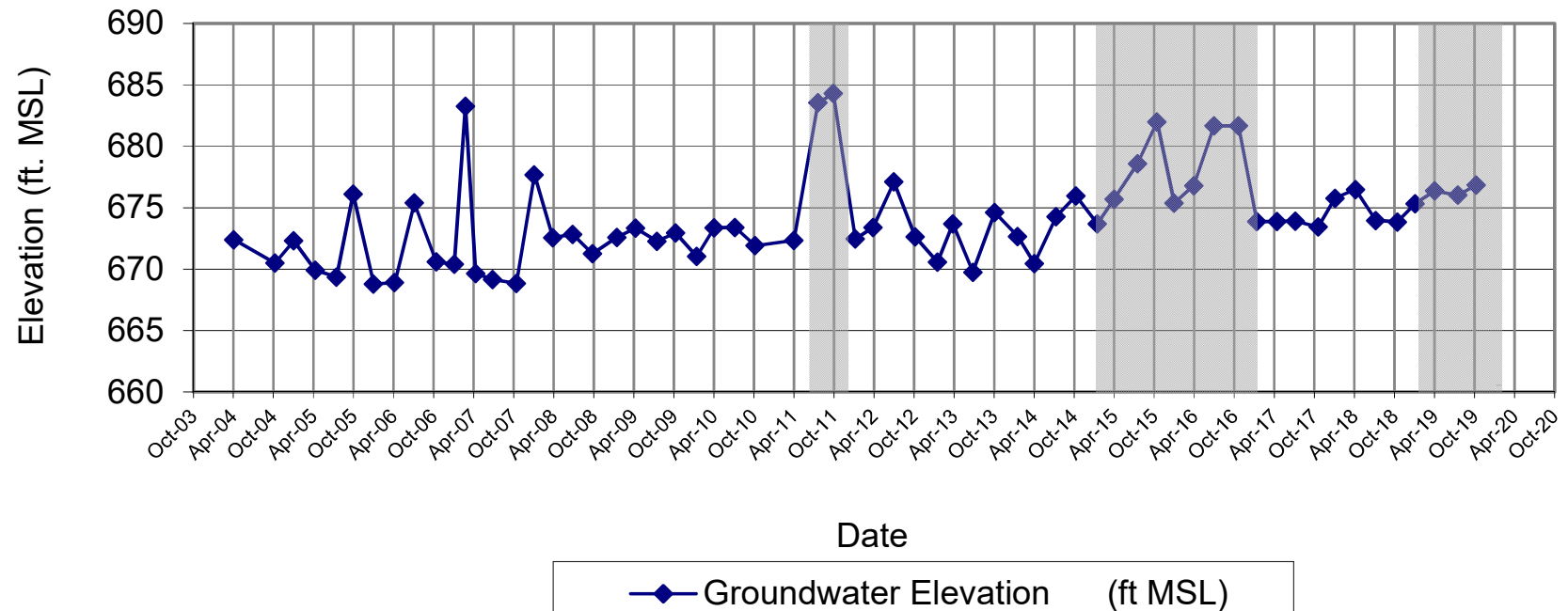
TOC Elevation re-measured on February 23, 2016 at 688.16.

DPE system off line between June 2011 and November 2011 to accommodate the second phase of the chemical oxidation injection pilot test (note shading on graph).

DPE system off line between November 2014 and August 2016 to accommodate first and second phases of the ABC+ injection pilot test (note shading on graph).

MONITORING WELL MW-16D
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Hydrograph for MW-16D



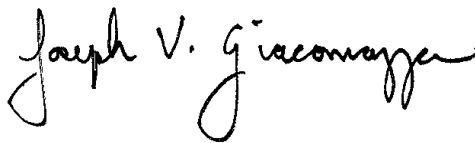
Appendix C
Analytical Laboratory Data Packages
(Provided on CD)

ANALYTICAL REPORT

Job Number: 200-51013-1

Job Description: Scott Figgie West of Plant 2

For:
AECOM
257 West Genesee Street
Suite 400
Buffalo, NY 14202-2657
Attention: Mr. Dino Zack



Approved for release.
Joe V Giacomazza
Project Management Assistant II
10/18/2019 3:36 PM

Designee for
Brian J Fischer, Manager of Project Management
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9835
brian.fischer@testamericainc.com
10/18/2019

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NYDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Eurofins TestAmerica, Burlington

30 Community Drive, Suite 11, South Burlington, VT 05403
Tel (802) 660-1990 Fax (802) 660-1919 www.testamericainc.com



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Job Narrative
200-51013-1

Comments

No additional comments.

Receipt

The sample was received on 10/16/2019 10:17 AM; the sample arrived in good condition, properly preserved and, where required, on ice.

Air Toxics

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 200-51013-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description

U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: AECOM

Job ID: 200-51013-1

Project/Site: Scott Figgie West of Plant 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-51013-1	AS Effluent 4Q19	Air	10/13/19 07:00	10/16/19 10:17	Air Canister (6-Liter) #4837

Detection Summary

Client: AECOM

Job ID: 200-51013-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: AS Effluent 4Q19

Lab Sample ID: 200-51013-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Chloroethane	36		1.0	1.0	ppb v/v	2			TO-15	Total/NA
Toluene	0.41		0.40	0.40	ppb v/v	2			TO-15	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Chloroethane	95		2.6	2.6	ug/m3	2			TO-15	Total/NA
Toluene	1.5		1.5	1.5	ug/m3	2			TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Burlington

Method Summary

Client: AECOM

Job ID: 200-51013-1

Project/Site: Scott Figgie West of Plant 2

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 200-51013-1

Client Sample ID: AS Effluent 4Q19

Lab Sample ID: 200-51013-1

Date Collected: 10/13/19 07:00

Matrix: Air

Date Received: 10/16/19 10:17

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
1,1,2,2-Tetrachloroethane	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
1,1,2-Trichloroethane	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
1,1-Dichloroethane	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
1,1-Dichloroethene	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
1,2,4-Trichlorobenzene	1.0	U	1.0	1.0	ppb v/v			10/17/19 17:18	2
1,2,4-Trimethylbenzene	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
1,2-Dibromoethane	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
1,2-Dichlorobenzene	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
1,2-Dichloroethane	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
1,2-Dichloroethene, Total	0.80	U	0.80	0.80	ppb v/v			10/17/19 17:18	2
1,2-Dichloropropane	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
1,2-Dichlorotetrafluoroethane	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
1,3,5-Trimethylbenzene	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
1,3-Butadiene	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
1,3-Dichlorobenzene	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
1,4-Dichlorobenzene	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
1,4-Dioxane	10	U	10	10	ppb v/v			10/17/19 17:18	2
2,2,4-Trimethylpentane	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
2-Chlorotoluene	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
3-Chloropropene	1.0	U	1.0	1.0	ppb v/v			10/17/19 17:18	2
4-Ethyltoluene	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
Acetone	10	U	10	10	ppb v/v			10/17/19 17:18	2
Benzene	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
Bromodichloromethane	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
Bromoethene(Vinyl Bromide)	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
Bromoform	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
Bromomethane	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
Carbon disulfide	1.0	U	1.0	1.0	ppb v/v			10/17/19 17:18	2
Carbon tetrachloride	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
Chlorobenzene	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
Chloroethane	36		1.0	1.0	ppb v/v			10/17/19 17:18	2
Chloroform	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
Chloromethane	1.0	U	1.0	1.0	ppb v/v			10/17/19 17:18	2
cis-1,2-Dichloroethene	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
cis-1,3-Dichloropropene	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
Cyclohexane	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
Dibromochloromethane	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
Dichlorodifluoromethane	1.0	U	1.0	1.0	ppb v/v			10/17/19 17:18	2
Ethylbenzene	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
Freon TF	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
Hexachlorobutadiene	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2
Isopropyl alcohol	10	U	10	10	ppb v/v			10/17/19 17:18	2
m,p-Xylene	1.0	U	1.0	1.0	ppb v/v			10/17/19 17:18	2
Methyl Butyl Ketone (2-Hexanone)	1.0	U	1.0	1.0	ppb v/v			10/17/19 17:18	2
Methyl Ethyl Ketone	1.0	U	1.0	1.0	ppb v/v			10/17/19 17:18	2
methyl isobutyl ketone	1.0	U	1.0	1.0	ppb v/v			10/17/19 17:18	2
Methyl tert-butyl ether	0.40	U	0.40	0.40	ppb v/v			10/17/19 17:18	2

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 200-51013-1

Client Sample ID: AS Effluent 4Q19

Lab Sample ID: 200-51013-1

Date Collected: 10/13/19 07:00

Matrix: Air

Date Received: 10/16/19 10:17

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	1.0 ppb v/v			10/17/19 17:18	2
n-Heptane	0.40	U	0.40	0.40 ppb v/v			10/17/19 17:18	2
n-Hexane	0.40	U	0.40	0.40 ppb v/v			10/17/19 17:18	2
Styrene	0.40	U	0.40	0.40 ppb v/v			10/17/19 17:18	2
tert-Butyl alcohol	10	U	10	10 ppb v/v			10/17/19 17:18	2
Tetrachloroethene	0.40	U	0.40	0.40 ppb v/v			10/17/19 17:18	2
Tetrahydrofuran	10	U	10	10 ppb v/v			10/17/19 17:18	2
Toluene	0.41		0.40	0.40 ppb v/v			10/17/19 17:18	2
trans-1,2-Dichloroethene	0.40	U	0.40	0.40 ppb v/v			10/17/19 17:18	2
trans-1,3-Dichloropropene	0.40	U	0.40	0.40 ppb v/v			10/17/19 17:18	2
Trichloroethene	0.40	U	0.40	0.40 ppb v/v			10/17/19 17:18	2
Trichlorofluoromethane	0.40	U	0.40	0.40 ppb v/v			10/17/19 17:18	2
Vinyl chloride	0.40	U	0.40	0.40 ppb v/v			10/17/19 17:18	2
Xylene (total)	1.4	U	1.4	1.4 ppb v/v			10/17/19 17:18	2
Xylene, o-	0.40	U	0.40	0.40 ppb v/v			10/17/19 17:18	2
Analyte	Result	Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.2	U	2.2	2.2 ug/m3			10/17/19 17:18	2
1,1,2,2-Tetrachloroethane	2.7	U	2.7	2.7 ug/m3			10/17/19 17:18	2
1,1,2-Trichloroethane	2.2	U	2.2	2.2 ug/m3			10/17/19 17:18	2
1,1-Dichloroethane	1.6	U	1.6	1.6 ug/m3			10/17/19 17:18	2
1,1-Dichloroethene	1.6	U	1.6	1.6 ug/m3			10/17/19 17:18	2
1,2,4-Trichlorobenzene	7.4	U	7.4	7.4 ug/m3			10/17/19 17:18	2
1,2,4-Trimethylbenzene	2.0	U	2.0	2.0 ug/m3			10/17/19 17:18	2
1,2-Dibromoethane	3.1	U	3.1	3.1 ug/m3			10/17/19 17:18	2
1,2-Dichlorobenzene	2.4	U	2.4	2.4 ug/m3			10/17/19 17:18	2
1,2-Dichloroethane	1.6	U	1.6	1.6 ug/m3			10/17/19 17:18	2
1,2-Dichloroethene, Total	3.2	U	3.2	3.2 ug/m3			10/17/19 17:18	2
1,2-Dichloropropane	1.8	U	1.8	1.8 ug/m3			10/17/19 17:18	2
1,2-Dichlorotetrafluoroethane	2.8	U	2.8	2.8 ug/m3			10/17/19 17:18	2
1,3,5-Trimethylbenzene	2.0	U	2.0	2.0 ug/m3			10/17/19 17:18	2
1,3-Butadiene	0.88	U	0.88	0.88 ug/m3			10/17/19 17:18	2
1,3-Dichlorobenzene	2.4	U	2.4	2.4 ug/m3			10/17/19 17:18	2
1,4-Dichlorobenzene	2.4	U	2.4	2.4 ug/m3			10/17/19 17:18	2
1,4-Dioxane	36	U	36	36 ug/m3			10/17/19 17:18	2
2,2,4-Trimethylpentane	1.9	U	1.9	1.9 ug/m3			10/17/19 17:18	2
2-Chlorotoluene	2.1	U	2.1	2.1 ug/m3			10/17/19 17:18	2
3-Chloropropene	3.1	U	3.1	3.1 ug/m3			10/17/19 17:18	2
4-Ethyltoluene	2.0	U	2.0	2.0 ug/m3			10/17/19 17:18	2
Acetone	24	U	24	24 ug/m3			10/17/19 17:18	2
Benzene	1.3	U	1.3	1.3 ug/m3			10/17/19 17:18	2
Bromodichloromethane	2.7	U	2.7	2.7 ug/m3			10/17/19 17:18	2
Bromoethene(Vinyl Bromide)	1.7	U	1.7	1.7 ug/m3			10/17/19 17:18	2
Bromoform	4.1	U	4.1	4.1 ug/m3			10/17/19 17:18	2
Bromomethane	1.6	U	1.6	1.6 ug/m3			10/17/19 17:18	2
Carbon disulfide	3.1	U	3.1	3.1 ug/m3			10/17/19 17:18	2
Carbon tetrachloride	2.5	U	2.5	2.5 ug/m3			10/17/19 17:18	2
Chlorobenzene	1.8	U	1.8	1.8 ug/m3			10/17/19 17:18	2
Chloroethane	95		2.6	2.6 ug/m3			10/17/19 17:18	2

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 200-51013-1

Client Sample ID: AS Effluent 4Q19

Lab Sample ID: 200-51013-1

Date Collected: 10/13/19 07:00

Matrix: Air

Date Received: 10/16/19 10:17

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	2.0	U	2.0	2.0 ug/m3			10/17/19 17:18	2
Chloromethane	2.1	U	2.1	2.1 ug/m3			10/17/19 17:18	2
cis-1,2-Dichloroethene	1.6	U	1.6	1.6 ug/m3			10/17/19 17:18	2
cis-1,3-Dichloropropene	1.8	U	1.8	1.8 ug/m3			10/17/19 17:18	2
Cyclohexane	1.4	U	1.4	1.4 ug/m3			10/17/19 17:18	2
Dibromochloromethane	3.4	U	3.4	3.4 ug/m3			10/17/19 17:18	2
Dichlorodifluoromethane	4.9	U	4.9	4.9 ug/m3			10/17/19 17:18	2
Ethylbenzene	1.7	U	1.7	1.7 ug/m3			10/17/19 17:18	2
Freon TF	3.1	U	3.1	3.1 ug/m3			10/17/19 17:18	2
Hexachlorobutadiene	4.3	U	4.3	4.3 ug/m3			10/17/19 17:18	2
Isopropyl alcohol	25	U	25	25 ug/m3			10/17/19 17:18	2
m,p-Xylene	4.3	U	4.3	4.3 ug/m3			10/17/19 17:18	2
Methyl Butyl Ketone (2-Hexanone)	4.1	U	4.1	4.1 ug/m3			10/17/19 17:18	2
Methyl Ethyl Ketone	2.9	U	2.9	2.9 ug/m3			10/17/19 17:18	2
methyl isobutyl ketone	4.1	U	4.1	4.1 ug/m3			10/17/19 17:18	2
Methyl tert-butyl ether	1.4	U	1.4	1.4 ug/m3			10/17/19 17:18	2
Methylene Chloride	3.5	U	3.5	3.5 ug/m3			10/17/19 17:18	2
n-Heptane	1.6	U	1.6	1.6 ug/m3			10/17/19 17:18	2
n-Hexane	1.4	U	1.4	1.4 ug/m3			10/17/19 17:18	2
Styrene	1.7	U	1.7	1.7 ug/m3			10/17/19 17:18	2
tert-Butyl alcohol	30	U	30	30 ug/m3			10/17/19 17:18	2
Tetrachloroethene	2.7	U	2.7	2.7 ug/m3			10/17/19 17:18	2
Tetrahydrofuran	29	U	29	29 ug/m3			10/17/19 17:18	2
Toluene	1.5		1.5	1.5 ug/m3			10/17/19 17:18	2
trans-1,2-Dichloroethene	1.6	U	1.6	1.6 ug/m3			10/17/19 17:18	2
trans-1,3-Dichloropropene	1.8	U	1.8	1.8 ug/m3			10/17/19 17:18	2
Trichloroethene	2.1	U	2.1	2.1 ug/m3			10/17/19 17:18	2
Trichlorofluoromethane	2.2	U	2.2	2.2 ug/m3			10/17/19 17:18	2
Vinyl chloride	1.0	U	1.0	1.0 ug/m3			10/17/19 17:18	2
Xylene (total)	6.1	U	6.1	6.1 ug/m3			10/17/19 17:18	2
Xylene, o-	1.7	U	1.7	1.7 ug/m3			10/17/19 17:18	2

QC Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 200-51013-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-148544/4

Matrix: Air

Analysis Batch: 148544

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
1,1,2-Trichloroethane	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
1,1-Dichloroethane	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
1,1-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	ppb v/v			10/17/19 10:50	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
1,2-Dibromoethane	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
1,2-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
1,2-Dichloroethane	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.40	ppb v/v			10/17/19 10:50	1
1,2-Dichloropropane	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
1,3-Butadiene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
1,3-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
1,4-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
1,4-Dioxane	5.0	U	5.0	5.0	ppb v/v			10/17/19 10:50	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
2-Chlorotoluene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
3-Chloropropene	0.50	U	0.50	0.50	ppb v/v			10/17/19 10:50	1
4-Ethyltoluene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Acetone	5.0	U	5.0	5.0	ppb v/v			10/17/19 10:50	1
Benzene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Bromodichloromethane	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Bromoform	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Bromomethane	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Carbon disulfide	0.50	U	0.50	0.50	ppb v/v			10/17/19 10:50	1
Carbon tetrachloride	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Chlorobenzene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Chloroethane	0.50	U	0.50	0.50	ppb v/v			10/17/19 10:50	1
Chloroform	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Chloromethane	0.50	U	0.50	0.50	ppb v/v			10/17/19 10:50	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Cyclohexane	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Dibromochloromethane	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Dichlorodifluoromethane	0.50	U	0.50	0.50	ppb v/v			10/17/19 10:50	1
Ethylbenzene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Freon TF	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Hexachlorobutadiene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Isopropyl alcohol	5.0	U	5.0	5.0	ppb v/v			10/17/19 10:50	1
m,p-Xylene	0.50	U	0.50	0.50	ppb v/v			10/17/19 10:50	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50	ppb v/v			10/17/19 10:50	1
Methyl Ethyl Ketone	0.50	U	0.50	0.50	ppb v/v			10/17/19 10:50	1
methyl isobutyl ketone	0.50	U	0.50	0.50	ppb v/v			10/17/19 10:50	1
Methyl tert-butyl ether	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1

Eurofins TestAmerica, Burlington

QC Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 200-51013-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-148544/4
Matrix: Air
Analysis Batch: 148544

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.50	U	0.50	0.50	ppb v/v			10/17/19 10:50	1
n-Heptane	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
n-Hexane	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Styrene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
tert-Butyl alcohol	5.0	U	5.0	5.0	ppb v/v			10/17/19 10:50	1
Tetrachloroethene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Tetrahydrofuran	5.0	U	5.0	5.0	ppb v/v			10/17/19 10:50	1
Toluene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Trichloroethene	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Trichlorofluoromethane	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Vinyl chloride	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1
Xylene (total)	0.70	U	0.70	0.70	ppb v/v			10/17/19 10:50	1
Xylene, o-	0.20	U	0.20	0.20	ppb v/v			10/17/19 10:50	1

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	1.1	1.1	ug/m3			10/17/19 10:50	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4	ug/m3			10/17/19 10:50	1
1,1,2-Trichloroethane	1.1	U	1.1	1.1	ug/m3			10/17/19 10:50	1
1,1-Dichloroethane	0.81	U	0.81	0.81	ug/m3			10/17/19 10:50	1
1,1-Dichloroethene	0.79	U	0.79	0.79	ug/m3			10/17/19 10:50	1
1,2,4-Trichlorobenzene	3.7	U	3.7	3.7	ug/m3			10/17/19 10:50	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.98	ug/m3			10/17/19 10:50	1
1,2-Dibromoethane	1.5	U	1.5	1.5	ug/m3			10/17/19 10:50	1
1,2-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			10/17/19 10:50	1
1,2-Dichloroethane	0.81	U	0.81	0.81	ug/m3			10/17/19 10:50	1
1,2-Dichloroethene, Total	1.6	U	1.6	1.6	ug/m3			10/17/19 10:50	1
1,2-Dichloropropane	0.92	U	0.92	0.92	ug/m3			10/17/19 10:50	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4	ug/m3			10/17/19 10:50	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98	ug/m3			10/17/19 10:50	1
1,3-Butadiene	0.44	U	0.44	0.44	ug/m3			10/17/19 10:50	1
1,3-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			10/17/19 10:50	1
1,4-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			10/17/19 10:50	1
1,4-Dioxane	18	U	18	18	ug/m3			10/17/19 10:50	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.93	ug/m3			10/17/19 10:50	1
2-Chlorotoluene	1.0	U	1.0	1.0	ug/m3			10/17/19 10:50	1
3-Chloropropene	1.6	U	1.6	1.6	ug/m3			10/17/19 10:50	1
4-Ethyltoluene	0.98	U	0.98	0.98	ug/m3			10/17/19 10:50	1
Acetone	12	U	12	12	ug/m3			10/17/19 10:50	1
Benzene	0.64	U	0.64	0.64	ug/m3			10/17/19 10:50	1
Bromodichloromethane	1.3	U	1.3	1.3	ug/m3			10/17/19 10:50	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.87	ug/m3			10/17/19 10:50	1
Bromoform	2.1	U	2.1	2.1	ug/m3			10/17/19 10:50	1
Bromomethane	0.78	U	0.78	0.78	ug/m3			10/17/19 10:50	1
Carbon disulfide	1.6	U	1.6	1.6	ug/m3			10/17/19 10:50	1
Carbon tetrachloride	1.3	U	1.3	1.3	ug/m3			10/17/19 10:50	1
Chlorobenzene	0.92	U	0.92	0.92	ug/m3			10/17/19 10:50	1
Chloroethane	1.3	U	1.3	1.3	ug/m3			10/17/19 10:50	1

Eurofins TestAmerica, Burlington

QC Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 200-51013-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-148544/4
Matrix: Air
Analysis Batch: 148544

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.98	U	0.98	0.98	ug/m3			10/17/19 10:50	1
Chloromethane	1.0	U	1.0	1.0	ug/m3			10/17/19 10:50	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.79	ug/m3			10/17/19 10:50	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.91	ug/m3			10/17/19 10:50	1
Cyclohexane	0.69	U	0.69	0.69	ug/m3			10/17/19 10:50	1
Dibromochloromethane	1.7	U	1.7	1.7	ug/m3			10/17/19 10:50	1
Dichlorodifluoromethane	2.5	U	2.5	2.5	ug/m3			10/17/19 10:50	1
Ethylbenzene	0.87	U	0.87	0.87	ug/m3			10/17/19 10:50	1
Freon TF	1.5	U	1.5	1.5	ug/m3			10/17/19 10:50	1
Hexachlorobutadiene	2.1	U	2.1	2.1	ug/m3			10/17/19 10:50	1
Isopropyl alcohol	12	U	12	12	ug/m3			10/17/19 10:50	1
m,p-Xylene	2.2	U	2.2	2.2	ug/m3			10/17/19 10:50	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	2.0	ug/m3			10/17/19 10:50	1
Methyl Ethyl Ketone	1.5	U	1.5	1.5	ug/m3			10/17/19 10:50	1
methyl isobutyl ketone	2.0	U	2.0	2.0	ug/m3			10/17/19 10:50	1
Methyl tert-butyl ether	0.72	U	0.72	0.72	ug/m3			10/17/19 10:50	1
Methylene Chloride	1.7	U	1.7	1.7	ug/m3			10/17/19 10:50	1
n-Heptane	0.82	U	0.82	0.82	ug/m3			10/17/19 10:50	1
n-Hexane	0.70	U	0.70	0.70	ug/m3			10/17/19 10:50	1
Styrene	0.85	U	0.85	0.85	ug/m3			10/17/19 10:50	1
tert-Butyl alcohol	15	U	15	15	ug/m3			10/17/19 10:50	1
Tetrachloroethene	1.4	U	1.4	1.4	ug/m3			10/17/19 10:50	1
Tetrahydrofuran	15	U	15	15	ug/m3			10/17/19 10:50	1
Toluene	0.75	U	0.75	0.75	ug/m3			10/17/19 10:50	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.79	ug/m3			10/17/19 10:50	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.91	ug/m3			10/17/19 10:50	1
Trichloroethene	1.1	U	1.1	1.1	ug/m3			10/17/19 10:50	1
Trichlorofluoromethane	1.1	U	1.1	1.1	ug/m3			10/17/19 10:50	1
Vinyl chloride	0.51	U	0.51	0.51	ug/m3			10/17/19 10:50	1
Xylene (total)	3.0	U	3.0	3.0	ug/m3			10/17/19 10:50	1
Xylene, o-	0.87	U	0.87	0.87	ug/m3			10/17/19 10:50	1

Lab Sample ID: LCS 200-148544/3
Matrix: Air
Analysis Batch: 148544

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	9.66		ppb v/v		97	72 - 127
1,1,2,2-Tetrachloroethane	10.0	8.98		ppb v/v		90	74 - 126
1,1,2-Trichloroethane	10.0	9.02		ppb v/v		90	75 - 126
1,1-Dichloroethane	10.0	8.96		ppb v/v		90	66 - 130
1,1-Dichloroethene	10.0	7.92		ppb v/v		79	68 - 120
1,2,4-Trichlorobenzene	10.0	8.11		ppb v/v		81	50 - 150
1,2,4-Trimethylbenzene	10.0	9.22		ppb v/v		92	71 - 129
1,2-Dibromoethane	10.0	9.16		ppb v/v		92	78 - 122
1,2-Dichlorobenzene	10.0	8.98		ppb v/v		90	68 - 129
1,2-Dichloroethane	10.0	10.4		ppb v/v		104	68 - 135
1,2-Dichloropropane	10.0	8.82		ppb v/v		88	69 - 128
1,2-Dichlorotetrafluoroethane	10.0	9.96		ppb v/v		100	71 - 141

Euofins TestAmerica, Burlington

QC Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 200-51013-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-148544/3

Matrix: Air

Analysis Batch: 148544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	10.0	9.34		ppb v/v		93	72 - 126
1,3-Butadiene	10.0	8.14		ppb v/v		81	58 - 139
1,3-Dichlorobenzene	10.0	9.16		ppb v/v		92	69 - 131
1,4-Dichlorobenzene	10.0	8.99		ppb v/v		90	67 - 132
1,4-Dioxane	10.0	8.83		ppb v/v		88	66 - 129
2,2,4-Trimethylpentane	10.0	9.06		ppb v/v		91	68 - 131
2-Chlorotoluene	10.0	9.42		ppb v/v		94	74 - 126
3-Chloropropene	10.0	7.69		ppb v/v		77	50 - 150
4-Ethyltoluene	10.0	9.72		ppb v/v		97	75 - 129
Acetone	10.0	9.78		ppb v/v		98	54 - 154
Benzene	10.0	8.94		ppb v/v		89	73 - 119
Bromodichloromethane	10.0	9.39		ppb v/v		94	75 - 127
Bromoethene(Vinyl Bromide)	10.0	8.12		ppb v/v		81	75 - 125
Bromoform	10.0	7.74		ppb v/v		77	53 - 149
Bromomethane	10.0	7.65		ppb v/v		77	72 - 124
Carbon disulfide	10.0	8.89		ppb v/v		89	71 - 138
Carbon tetrachloride	10.0	10.0		ppb v/v		100	71 - 133
Chlorobenzene	10.0	9.30		ppb v/v		93	76 - 119
Chloroethane	10.0	7.60		ppb v/v		76	68 - 130
Chloroform	10.0	9.23		ppb v/v		92	73 - 124
Chloromethane	10.0	9.37		ppb v/v		94	56 - 141
cis-1,2-Dichloroethene	10.0	8.69		ppb v/v		87	72 - 121
cis-1,3-Dichloropropene	10.0	8.76		ppb v/v		88	74 - 125
Cyclohexane	10.0	9.38		ppb v/v		94	76 - 124
Dibromochloromethane	10.0	8.66		ppb v/v		87	73 - 125
Dichlorodifluoromethane	10.0	9.01		ppb v/v		90	61 - 142
Ethylbenzene	10.0	9.32		ppb v/v		93	74 - 122
Freon TF	10.0	8.06		ppb v/v		81	70 - 121
Hexachlorobutadiene	10.0	8.91		ppb v/v		89	58 - 130
Isopropyl alcohol	10.0	8.96		ppb v/v		90	53 - 142
m,p-Xylene	20.0	18.7		ppb v/v		93	76 - 121
Methyl Butyl Ketone (2-Hexanone)	10.0	9.49		ppb v/v		95	57 - 143
Methyl Ethyl Ketone	10.0	9.03		ppb v/v		90	72 - 124
methyl isobutyl ketone	10.0	9.48		ppb v/v		95	58 - 144
Methyl tert-butyl ether	10.0	9.60		ppb v/v		96	70 - 127
Methylene Chloride	10.0	8.72		ppb v/v		87	59 - 137
n-Heptane	10.0	9.09		ppb v/v		91	60 - 142
n-Hexane	10.0	9.52		ppb v/v		95	63 - 138
Styrene	10.0	9.04		ppb v/v		90	74 - 125
tert-Butyl alcohol	10.0	9.88		ppb v/v		99	66 - 132
Tetrachloroethene	10.0	9.63		ppb v/v		96	70 - 125
Tetrahydrofuran	10.0	10.4		ppb v/v		104	60 - 149
Toluene	10.0	9.14		ppb v/v		91	75 - 122
trans-1,2-Dichloroethene	10.0	9.67		ppb v/v		97	69 - 137
trans-1,3-Dichloropropene	10.0	9.95		ppb v/v		100	74 - 128
Trichloroethene	10.0	8.98		ppb v/v		90	73 - 122
Trichlorofluoromethane	10.0	9.60		ppb v/v		96	70 - 129
Vinyl chloride	10.0	7.90		ppb v/v		79	61 - 135

Eurofins TestAmerica, Burlington

QC Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 200-51013-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-148544/3

Matrix: Air

Analysis Batch: 148544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylene, o-	10.0	9.54		ppb v/v		95	73 - 123
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	55	52.7		ug/m3		97	72 - 127
1,1,2,2-Tetrachloroethane	69	61.6		ug/m3		90	74 - 126
1,1,2-Trichloroethane	55	49.2		ug/m3		90	75 - 126
1,1-Dichloroethane	40	36.3		ug/m3		90	66 - 130
1,1-Dichloroethene	40	31.4		ug/m3		79	68 - 120
1,2,4-Trichlorobenzene	74	60.2		ug/m3		81	50 - 150
1,2,4-Trimethylbenzene	49	45.3		ug/m3		92	71 - 129
1,2-Dibromoethane	77	70.4		ug/m3		92	78 - 122
1,2-Dichlorobenzene	60	54.0		ug/m3		90	68 - 129
1,2-Dichloroethane	40	42.2		ug/m3		104	68 - 135
1,2-Dichloropropane	46	40.8		ug/m3		88	69 - 128
1,2-Dichlorotetrafluoroethane	70	69.6		ug/m3		100	71 - 141
1,3,5-Trimethylbenzene	49	45.9		ug/m3		93	72 - 126
1,3-Butadiene	22	18.0		ug/m3		81	58 - 139
1,3-Dichlorobenzene	60	55.1		ug/m3		92	69 - 131
1,4-Dichlorobenzene	60	54.0		ug/m3		90	67 - 132
1,4-Dioxane	36	31.8		ug/m3		88	66 - 129
2,2,4-Trimethylpentane	47	42.3		ug/m3		91	68 - 131
2-Chlorotoluene	52	48.8		ug/m3		94	74 - 126
3-Chloropropene	31	24.1		ug/m3		77	50 - 150
4-Ethyltoluene	49	47.8		ug/m3		97	75 - 129
Acetone	24	23.2		ug/m3		98	54 - 154
Benzene	32	28.6		ug/m3		89	73 - 119
Bromodichloromethane	67	62.9		ug/m3		94	75 - 127
Bromoethene(Vinyl Bromide)	44	35.5		ug/m3		81	75 - 125
Bromoform	100	80.0		ug/m3		77	53 - 149
Bromomethane	39	29.7		ug/m3		77	72 - 124
Carbon disulfide	31	27.7		ug/m3		89	71 - 138
Carbon tetrachloride	63	63.1		ug/m3		100	71 - 133
Chlorobenzene	46	42.8		ug/m3		93	76 - 119
Chloroethane	26	20.0		ug/m3		76	68 - 130
Chloroform	49	45.0		ug/m3		92	73 - 124
Chloromethane	21	19.3		ug/m3		94	56 - 141
cis-1,2-Dichloroethene	40	34.5		ug/m3		87	72 - 121
cis-1,3-Dichloropropene	45	39.8		ug/m3		88	74 - 125
Cyclohexane	34	32.3		ug/m3		94	76 - 124
Dibromochloromethane	85	73.7		ug/m3		87	73 - 125
Dichlorodifluoromethane	49	44.6		ug/m3		90	61 - 142
Ethylbenzene	43	40.5		ug/m3		93	74 - 122
Freon TF	77	61.7		ug/m3		81	70 - 121
Hexachlorobutadiene	110	95.1		ug/m3		89	58 - 130
Isopropyl alcohol	25	22.0		ug/m3		90	53 - 142
m,p-Xylene	87	81.0		ug/m3		93	76 - 121
Methyl Butyl Ketone (2-Hexanone)	41	38.9		ug/m3		95	57 - 143
Methyl Ethyl Ketone	29	26.6		ug/m3		90	72 - 124

Eurofins TestAmerica, Burlington

QC Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 200-51013-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-148544/3

Matrix: Air

Analysis Batch: 148544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
methyl isobutyl ketone	41	38.8		ug/m3		95	58 - 144
Methyl tert-butyl ether	36	34.6		ug/m3		96	70 - 127
Methylene Chloride	35	30.3		ug/m3		87	59 - 137
n-Heptane	41	37.2		ug/m3		91	60 - 142
n-Hexane	35	33.5		ug/m3		95	63 - 138
Styrene	43	38.5		ug/m3		90	74 - 125
tert-Butyl alcohol	30	30.0		ug/m3		99	66 - 132
Tetrachloroethene	68	65.3		ug/m3		96	70 - 125
Tetrahydrofuran	29	30.5		ug/m3		104	60 - 149
Toluene	38	34.4		ug/m3		91	75 - 122
trans-1,2-Dichloroethene	40	38.3		ug/m3		97	69 - 137
trans-1,3-Dichloropropene	45	45.2		ug/m3		100	74 - 128
Trichloroethene	54	48.2		ug/m3		90	73 - 122
Trichlorofluoromethane	56	53.9		ug/m3		96	70 - 129
Vinyl chloride	26	20.2		ug/m3		79	61 - 135
Xylene, o-	43	41.4		ug/m3		95	73 - 123

QC Association Summary

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 200-51013-1

Air - GC/MS VOA

Analysis Batch: 148544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-51013-1	AS Effluent 4Q19	Total/NA	Air	TO-15	
MB 200-148544/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-148544/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 200-51013-1

Client Sample ID: AS Effluent 4Q19

Lab Sample ID: 200-51013-1

Date Collected: 10/13/19 07:00

Matrix: Air

Date Received: 10/16/19 10:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2	148544	10/17/19 17:18	A1B	TAL BUR

Laboratory References:

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: AECOM

Job ID: 200-51013-1

Project/Site: Scott Figgie West of Plant 2

Laboratory: Eurofins TestAmerica, Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-20
Connecticut	State	<cert No.>	09-30-20 *
Connecticut	State Program	PH-0751	09-30-19 *
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-15-20
Florida	NELAP	E87467	06-30-20
Minnesota	NELAP	050-999-436	12-31-19
New Hampshire	NELAP	2006	12-18-19
New Jersey	NELAP	VT972	06-30-20
New York	NELAP	10391	03-31-20
Pennsylvania	NELAP	68-00489	04-30-20
Rhode Island	State	LAO00298	12-30-19
Rhode Island	State Program	LAO00298	12-30-19
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00272	08-09-20
Vermont	State	VT4000	12-31-19
Virginia	NELAP	460209	12-14-19

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Burlington

Method T015

Volatile Organic Compounds (GC/MS)
by Method T015

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: 38287-03.D
 Lab ID: LCS 200-148544/3 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	9.66	97	72-127	
1,1,2,2-Tetrachloroethane	10.0	8.98	90	74-126	
1,1,2-Trichloroethane	10.0	9.02	90	75-126	
1,1-Dichloroethane	10.0	8.96	90	66-130	
1,1-Dichloroethene	10.0	7.92	79	68-120	
1,2,4-Trichlorobenzene	10.0	8.11	81	50-150	
1,2,4-Trimethylbenzene	10.0	9.22	92	71-129	
1,2-Dibromoethane	10.0	9.16	92	78-122	
1,2-Dichlorobenzene	10.0	8.98	90	68-129	
1,2-Dichloroethane	10.0	10.4	104	68-135	
1,2-Dichloropropane	10.0	8.82	88	69-128	
1,2-Dichlorotetrafluoroethane	10.0	9.96	100	71-141	
1,3,5-Trimethylbenzene	10.0	9.34	93	72-126	
1,3-Butadiene	10.0	8.14	81	58-139	
1,3-Dichlorobenzene	10.0	9.16	92	69-131	
1,4-Dichlorobenzene	10.0	8.99	90	67-132	
1,4-Dioxane	10.0	8.83	88	66-129	
2,2,4-Trimethylpentane	10.0	9.06	91	68-131	
2-Chlorotoluene	10.0	9.42	94	74-126	
3-Chloropropene	10.0	7.69	77	50-150	
4-Ethyltoluene	10.0	9.72	97	75-129	
Acetone	10.0	9.78	98	54-154	
Benzene	10.0	8.94	89	73-119	
Bromodichloromethane	10.0	9.39	94	75-127	
Bromoethene (Vinyl Bromide)	10.0	8.12	81	75-125	
Bromoform	10.0	7.74	77	53-149	
Bromomethane	10.0	7.65	77	72-124	
Carbon disulfide	10.0	8.89	89	71-138	
Carbon tetrachloride	10.0	10.0	100	71-133	
Chlorobenzene	10.0	9.30	93	76-119	
Chloroethane	10.0	7.60	76	68-130	
Chloroform	10.0	9.23	92	73-124	
Chloromethane	10.0	9.37	94	56-141	
cis-1,2-Dichloroethene	10.0	8.69	87	72-121	
cis-1,3-Dichloropropene	10.0	8.76	88	74-125	
Cyclohexane	10.0	9.38	94	76-124	
Dibromochloromethane	10.0	8.66	87	73-125	
Dichlorodifluoromethane	10.0	9.01	90	61-142	
Ethylbenzene	10.0	9.32	93	74-122	
Freon TF	10.0	8.06	81	70-121	
Hexachlorobutadiene	10.0	8.91	89	58-130	
Isopropyl alcohol	10.0	8.96	90	53-142	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1

SDG No.: _____

Matrix: Air Level: Low Lab File ID: 38287-03.D

Lab ID: LCS 200-148544/3 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
m,p-Xylene	20.0	18.7	93	76-121	
Methyl Butyl Ketone (2-Hexanone)	10.0	9.49	95	57-143	
Methyl Ethyl Ketone	10.0	9.03	90	72-124	
methyl isobutyl ketone	10.0	9.48	95	58-144	
Methyl tert-butyl ether	10.0	9.60	96	70-127	
Methylene Chloride	10.0	8.72	87	59-137	
n-Heptane	10.0	9.09	91	60-142	
n-Hexane	10.0	9.52	95	63-138	
Styrene	10.0	9.04	90	74-125	
tert-Butyl alcohol	10.0	9.88	99	66-132	
Tetrachloroethene	10.0	9.63	96	70-125	
Tetrahydrofuran	10.0	10.4	104	60-149	
Toluene	10.0	9.14	91	75-122	
trans-1,2-Dichloroethene	10.0	9.67	97	69-137	
trans-1,3-Dichloropropene	10.0	9.95	100	74-128	
Trichloroethene	10.0	8.98	90	73-122	
Trichlorofluoromethane	10.0	9.60	96	70-129	
Vinyl chloride	10.0	7.90	79	61-135	
Xylene, o-	10.0	9.54	95	73-123	

Column to be used to flag recovery and RPD values

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
SDG No.: _____
Lab File ID: 38287-04.D Lab Sample ID: MB 200-148544/4
Matrix: Air Heated Purge: (Y/N) N
Instrument ID: CHC.i Date Analyzed: 10/17/2019 10:50
GC Column: RTX-624 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-148544/3	38287-03.D	10/17/2019 09:56
AS Effluent 4Q19	200-51013-1	38287-11.D	10/17/2019 17:18

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Lab File ID: 37879-01.D BFB Injection Date: 09/22/2019
 Instrument ID: CHC.i BFB Injection Time: 11:56
 Analysis Batch No.: 147607

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	16.8	
75	30.0 - 66.0% of mass 95	44.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	0.0	(0.0) 1
174	50.0 - 120.0% of mass 95	98.9	
175	4.0 - 9.0 % of mass 174	7.3	(7.3) 1
176	93.0 - 101.0% of mass 174	97.1	(98.2) 1
177	5.0 - 9.0% of mass 176	6.3	(6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-147607/4	37879-04.D	09/22/2019	15:25
	IC 200-147607/5	37879-05.D	09/22/2019	16:30
	IC 200-147607/6	37879-06.D	09/22/2019	17:36
	IC 200-147607/7	37879-07.D	09/22/2019	18:41
	ICIS 200-147607/8	37879-08.D	09/22/2019	19:46
	IC 200-147607/9	37879-09.D	09/22/2019	20:51
	IC 200-147607/19	37879-19.D	09/23/2019	09:42
	IC 200-147607/20	37879-20.D	09/23/2019	10:48
	ICV 200-147678/3	37906-03.D	09/24/2019	11:56

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Lab File ID: 38287-01.D BFB Injection Date: 10/17/2019
 Instrument ID: CHC.i BFB Injection Time: 08:16
 Analysis Batch No.: 148544

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.6
75	30.0 - 66.0% of mass 95	49.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	113.4
175	4.0 - 9.0 % of mass 174	8.4 (7.4) 1
176	93.0 - 101.0% of mass 174	110.5 (97.5) 1
177	5.0 - 9.0% of mass 176	7.2 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-148544/2	38287-02.D	10/17/2019	09:02
	LCS 200-148544/3	38287-03.D	10/17/2019	09:56
	MB 200-148544/4	38287-04.D	10/17/2019	10:50
AS Effluent 4Q19	200-51013-1	38287-11.D	10/17/2019	17:18

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Sample No.: ICIS 200-147607/8 Date Analyzed: 09/22/2019 19:46
 Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): 37879-08.D Heated Purge: (Y/N) N
 Calibration ID: 42406

	BCM		DFBZ		CBNZd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	466809	10.09	2199067	12.08	2158216	18.13
UPPER LIMIT	653533	10.42	3078694	12.41	3021502	18.46
LOWER LIMIT	280085	9.76	1319440	11.75	1294930	17.80
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-147678/3		642563	10.09	3038218	12.07	2934345
						18.12

BCM = Bromochloromethane
 DFBZ = 1,4-Difluorobenzene
 CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
 RT Limit = $\pm$ 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Sample No.: CCVIS 200-148544/2 Date Analyzed: 10/17/2019 09:02
 Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): 38287-02.D Heated Purge: (Y/N) N
 Calibration ID: 42406

		BCM		DFBZ		CBNZd5		
		AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD		422505	10.07	1959718	12.05	1929746	18.10	
UPPER LIMIT		591507	10.40	2743605	12.38	2701644	18.43	
LOWER LIMIT		253503	9.74	1175831	11.72	1157848	17.77	
LAB SAMPLE ID		CLIENT SAMPLE ID						
LCS 200-148544/3		421980	10.07	1980181	12.06	1955028	18.10	
MB 200-148544/4		425375	10.07	1992434	12.05	1744594	18.10	
200-51013-1		AS Effluent 4Q19	296149	10.07	1400285	12.05	1359464	18.10

BCM = Bromochloromethane
 DFBZ = 1,4-Difluorobenzene
 CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
 RT Limit = $\pm$ 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Client Sample ID: AS Effluent 4Q19 Lab Sample ID: 200-51013-1
 Matrix: Air Lab File ID: 38287-11.D
 Analysis Method: TO-15 Date Collected: 10/13/2019 07:00
 Sample wt/vol: 100 (mL) Date Analyzed: 10/17/2019 17:18
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 148544 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
71-55-6	1,1,1-Trichloroethane	133.41	0.40	U	0.40	0.40
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.40	U	0.40	0.40
79-00-5	1,1,2-Trichloroethane	133.41	0.40	U	0.40	0.40
75-34-3	1,1-Dichloroethane	98.96	0.40	U	0.40	0.40
75-35-4	1,1-Dichloroethene	96.94	0.40	U	0.40	0.40
120-82-1	1,2,4-Trichlorobenzene	181.45	1.0	U	1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	120.20	0.40	U	0.40	0.40
106-93-4	1,2-Dibromoethane	187.87	0.40	U	0.40	0.40
95-50-1	1,2-Dichlorobenzene	147.00	0.40	U	0.40	0.40
107-06-2	1,2-Dichloroethane	98.96	0.40	U	0.40	0.40
540-59-0	1,2-Dichloroethene, Total	96.94	0.80	U	0.80	0.80
78-87-5	1,2-Dichloropropane	112.99	0.40	U	0.40	0.40
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.40	U	0.40	0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	0.40	U	0.40	0.40
106-99-0	1,3-Butadiene	54.09	0.40	U	0.40	0.40
541-73-1	1,3-Dichlorobenzene	147.00	0.40	U	0.40	0.40
106-46-7	1,4-Dichlorobenzene	147.00	0.40	U	0.40	0.40
123-91-1	1,4-Dioxane	88.11	10	U	10	10
540-84-1	2,2,4-Trimethylpentane	114.23	0.40	U	0.40	0.40
95-49-8	2-Chlorotoluene	126.59	0.40	U	0.40	0.40
107-05-1	3-Chloropropene	76.53	1.0	U	1.0	1.0
622-96-8	4-Ethyltoluene	120.20	0.40	U	0.40	0.40
67-64-1	Acetone	58.08	10	U	10	10
71-43-2	Benzene	78.11	0.40	U	0.40	0.40
75-27-4	Bromodichloromethane	163.83	0.40	U	0.40	0.40
593-60-2	Bromoethene (Vinyl Bromide)	106.96	0.40	U	0.40	0.40
75-25-2	Bromoform	252.75	0.40	U	0.40	0.40
74-83-9	Bromomethane	94.94	0.40	U	0.40	0.40
75-15-0	Carbon disulfide	76.14	1.0	U	1.0	1.0
56-23-5	Carbon tetrachloride	153.81	0.40	U	0.40	0.40
108-90-7	Chlorobenzene	112.56	0.40	U	0.40	0.40
75-00-3	Chloroethane	64.52	36		1.0	1.0
67-66-3	Chloroform	119.38	0.40	U	0.40	0.40

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Client Sample ID: AS Effluent 4Q19 Lab Sample ID: 200-51013-1
 Matrix: Air Lab File ID: 38287-11.D
 Analysis Method: TO-15 Date Collected: 10/13/2019 07:00
 Sample wt/vol: 100 (mL) Date Analyzed: 10/17/2019 17:18
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 148544 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
74-87-3	Chloromethane	50.49	1.0	U	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
10061-01-5	cis-1,3-Dichloropropene	110.97	0.40	U	0.40	0.40
110-82-7	Cyclohexane	84.16	0.40	U	0.40	0.40
124-48-1	Dibromochloromethane	208.29	0.40	U	0.40	0.40
75-71-8	Dichlorodifluoromethane	120.91	1.0	U	1.0	1.0
100-41-4	Ethylbenzene	106.17	0.40	U	0.40	0.40
76-13-1	Freon TF	187.38	0.40	U	0.40	0.40
87-68-3	Hexachlorobutadiene	260.76	0.40	U	0.40	0.40
67-63-0	Isopropyl alcohol	60.10	10	U	10	10
179601-23-1	m,p-Xylene	106.17	1.0	U	1.0	1.0
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	72.11	1.0	U	1.0	1.0
108-10-1	methyl isobutyl ketone	100.16	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	88.15	0.40	U	0.40	0.40
75-09-2	Methylene Chloride	84.93	1.0	U	1.0	1.0
142-82-5	n-Heptane	100.21	0.40	U	0.40	0.40
110-54-3	n-Hexane	86.17	0.40	U	0.40	0.40
100-42-5	Styrene	104.15	0.40	U	0.40	0.40
75-65-0	tert-Butyl alcohol	74.12	10	U	10	10
127-18-4	Tetrachloroethene	165.83	0.40	U	0.40	0.40
109-99-9	Tetrahydrofuran	72.11	10	U	10	10
108-88-3	Toluene	92.14	0.41		0.40	0.40
156-60-5	trans-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
10061-02-6	trans-1,3-Dichloropropene	110.97	0.40	U	0.40	0.40
79-01-6	Trichloroethene	131.39	0.40	U	0.40	0.40
75-69-4	Trichlorofluoromethane	137.37	0.40	U	0.40	0.40
75-01-4	Vinyl chloride	62.50	0.40	U	0.40	0.40
1330-20-7	Xylene (total)	106.17	1.4	U	1.4	1.4
95-47-6	Xylene, o-	106.17	0.40	U	0.40	0.40

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Client Sample ID: AS Effluent 4Q19 Lab Sample ID: 200-51013-1
 Matrix: Air Lab File ID: 38287-11.D
 Analysis Method: TO-15 Date Collected: 10/13/2019 07:00
 Sample wt/vol: 100 (mL) Date Analyzed: 10/17/2019 17:18
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 148544 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
71-55-6	1,1,1-Trichloroethane	133.41	2.2	U	2.2	2.2
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.7	U	2.7	2.7
79-00-5	1,1,2-Trichloroethane	133.41	2.2	U	2.2	2.2
75-34-3	1,1-Dichloroethane	98.96	1.6	U	1.6	1.6
75-35-4	1,1-Dichloroethene	96.94	1.6	U	1.6	1.6
120-82-1	1,2,4-Trichlorobenzene	181.45	7.4	U	7.4	7.4
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	2.0
106-93-4	1,2-Dibromoethane	187.87	3.1	U	3.1	3.1
95-50-1	1,2-Dichlorobenzene	147.00	2.4	U	2.4	2.4
107-06-2	1,2-Dichloroethane	98.96	1.6	U	1.6	1.6
540-59-0	1,2-Dichloroethene, Total	96.94	3.2	U	3.2	3.2
78-87-5	1,2-Dichloropropane	112.99	1.8	U	1.8	1.8
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.8	U	2.8	2.8
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	2.0
106-99-0	1,3-Butadiene	54.09	0.88	U	0.88	0.88
541-73-1	1,3-Dichlorobenzene	147.00	2.4	U	2.4	2.4
106-46-7	1,4-Dichlorobenzene	147.00	2.4	U	2.4	2.4
123-91-1	1,4-Dioxane	88.11	36	U	36	36
540-84-1	2,2,4-Trimethylpentane	114.23	1.9	U	1.9	1.9
95-49-8	2-Chlorotoluene	126.59	2.1	U	2.1	2.1
107-05-1	3-Chloropropene	76.53	3.1	U	3.1	3.1
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	2.0
67-64-1	Acetone	58.08	24	U	24	24
71-43-2	Benzene	78.11	1.3	U	1.3	1.3
75-27-4	Bromodichloromethane	163.83	2.7	U	2.7	2.7
593-60-2	Bromoethene (Vinyl Bromide)	106.96	1.7	U	1.7	1.7
75-25-2	Bromoform	252.75	4.1	U	4.1	4.1
74-83-9	Bromomethane	94.94	1.6	U	1.6	1.6
75-15-0	Carbon disulfide	76.14	3.1	U	3.1	3.1
56-23-5	Carbon tetrachloride	153.81	2.5	U	2.5	2.5
108-90-7	Chlorobenzene	112.56	1.8	U	1.8	1.8
75-00-3	Chloroethane	64.52	95		2.6	2.6
67-66-3	Chloroform	119.38	2.0	U	2.0	2.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Client Sample ID: AS Effluent 4Q19 Lab Sample ID: 200-51013-1
 Matrix: Air Lab File ID: 38287-11.D
 Analysis Method: TO-15 Date Collected: 10/13/2019 07:00
 Sample wt/vol: 100 (mL) Date Analyzed: 10/17/2019 17:18
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 148544 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
74-87-3	Chloromethane	50.49	2.1	U	2.1	2.1
156-59-2	cis-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
10061-01-5	cis-1,3-Dichloropropene	110.97	1.8	U	1.8	1.8
110-82-7	Cyclohexane	84.16	1.4	U	1.4	1.4
124-48-1	Dibromochloromethane	208.29	3.4	U	3.4	3.4
75-71-8	Dichlorodifluoromethane	120.91	4.9	U	4.9	4.9
100-41-4	Ethylbenzene	106.17	1.7	U	1.7	1.7
76-13-1	Freon TF	187.38	3.1	U	3.1	3.1
87-68-3	Hexachlorobutadiene	260.76	4.3	U	4.3	4.3
67-63-0	Isopropyl alcohol	60.10	25	U	25	25
179601-23-1	m,p-Xylene	106.17	4.3	U	4.3	4.3
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	4.1	U	4.1	4.1
78-93-3	Methyl Ethyl Ketone	72.11	2.9	U	2.9	2.9
108-10-1	methyl isobutyl ketone	100.16	4.1	U	4.1	4.1
1634-04-4	Methyl tert-butyl ether	88.15	1.4	U	1.4	1.4
75-09-2	Methylene Chloride	84.93	3.5	U	3.5	3.5
142-82-5	n-Heptane	100.21	1.6	U	1.6	1.6
110-54-3	n-Hexane	86.17	1.4	U	1.4	1.4
100-42-5	Styrene	104.15	1.7	U	1.7	1.7
75-65-0	tert-Butyl alcohol	74.12	30	U	30	30
127-18-4	Tetrachloroethene	165.83	2.7	U	2.7	2.7
109-99-9	Tetrahydrofuran	72.11	29	U	29	29
108-88-3	Toluene	92.14	1.5		1.5	1.5
156-60-5	trans-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
10061-02-6	trans-1,3-Dichloropropene	110.97	1.8	U	1.8	1.8
79-01-6	Trichloroethene	131.39	2.1	U	2.1	2.1
75-69-4	Trichlorofluoromethane	137.37	2.2	U	2.2	2.2
75-01-4	Vinyl chloride	62.50	1.0	U	1.0	1.0
1330-20-7	Xylene (total)	106.17	6.1	U	6.1	6.1
95-47-6	Xylene, o-	106.17	1.7	U	1.7	1.7

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D
 Lims ID: 200-51013-A-1
 Client ID: AS Effluent 4Q19
 Sample Type: Client
 Inject. Date: 17-Oct-2019 17:18:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 200.000 mL Dil. Factor: 2.0000
 Sample Info: 200-0038287-011
 Misc. Info.: 51015-03
 Operator ID: ggg Instrument ID: CHC.i
 Method: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\TO15_MasterMethod_(v1)_CHC.i.m
 Limit Group: AI_TO15_ICAL
 Last Update: 18-Oct-2019 11:56:51 Calib Date: 23-Sep-2019 10:48:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX0329

First Level Reviewer: bunmaa

Date: 18-Oct-2019 11:56:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85	2.999	2.994	0.005	99	7438	0.1977	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.245				ND	U
5 Chloromethane	50	3.373	3.368	0.005	96	2762	0.2159	
7 Vinyl chloride	62	3.603	3.597	0.006	93	2593	0.1618	
8 Butadiene	54		3.672				ND	
9 Bromomethane	94		4.318				ND	
10 Chloroethane	64	4.552	4.547	0.005	97	116844	18.0	
13 Vinyl bromide	106		4.931				ND	
14 Trichlorofluoromethane	101	5.049	5.049	0.006	94	3627	0.0965	M
19 1,1,2-Trichloro-1,2,2-trif	101		6.116				ND	U
20 1,1-Dichloroethene	96		6.137				ND	U
21 Acetone	43	6.378	6.356	0.022	99	25025	1.32	
22 Carbon disulfide	76	6.511	6.511	0.000	100	17737	0.4203	
23 Isopropyl alcohol	45		6.693				ND	U
24 3-Chloro-1-propene	41		6.911				ND	U
27 Methylene Chloride	49		7.205				ND	MU
28 2-Methyl-2-propanol	59		7.461				ND	
29 Methyl tert-butyl ether	73		7.642				ND	U
30 trans-1,2-Dichloroethene	61	7.653	7.653	0.000	70	2097	0.1006	M
32 Hexane	57		8.075				ND	U
33 1,1-Dichloroethane	63	8.523	8.512	0.011	91	2748	0.0989	
35 cis-1,2-Dichloroethene	96	9.623	9.622	0.001	47	2055	0.1138	
36 2-Butanone (MEK)	72	9.697	9.665	0.032	99	1510	0.2072	
* 38 Chlorobromomethane	128	10.071	10.071	0.000	82	296149	10.0	
39 Tetrahydrofuran	42		10.108				ND	U
S 40 1,2-Dichloroethene, Total	61				0		0.2143	
41 Chloroform	83		10.220				ND	
42 Cyclohexane	84		10.487				ND	U
43 1,1,1-Trichloroethane	97		10.487				ND	
44 Carbon tetrachloride	117	10.743	10.743	-0.011	15	1236	0.0312	M
45 Benzene	78	11.197	11.197	0.000	96	4269	0.0813	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
46 Isooctane	57	11.218	11.218	0.005	50	1872	0.0232	Ma
47 1,2-Dichloroethane	62		11.368				ND	
48 n-Heptane	43	11.592	11.592	-0.032	64	2085	0.0644	M
* 49 1,4-Difluorobenzene	114	12.051	12.056	-0.005	94	1400285	10.0	
51 Trichloroethene	95		12.526				ND	
53 1,2-Dichloropropane	63		13.054				ND	
56 1,4-Dioxane	88	13.321	13.305	0.016	94	3453	0.2985	
58 Dichlorobromomethane	83		13.630				ND	
60 cis-1,3-Dichloropropene	75		14.591				ND	
61 4-Methyl-2-pentanone (MIBK)	43		14.885				ND	U
62 Toluene	92	15.189	15.189	0.000	94	8796	0.2044	
64 trans-1,3-Dichloropropene	75		15.792				ND	U
65 1,1,2-Trichloroethane	83		16.160				ND	
66 Tetrachloroethene	166		16.299				ND	
67 2-Hexanone	43		16.624				ND	MU
68 Chlorodibromomethane	129		16.923				ND	
69 Ethylene Dibromide	107		17.180				ND	
* 70 Chlorobenzene-d5	117	18.098	18.103	-0.005	86	1359464	10.0	
71 Chlorobenzene	112		18.162				ND	
72 Ethylbenzene	91	18.327	18.327	0.000	97	7870	0.0818	
74 m-Xylene & p-Xylene	106	18.583	18.578	0.005	0	5122	0.1324	
76 o-Xylene	106	19.416	19.416	0.000	98	3260	0.0880	M
77 Styrene	104		19.469				ND	
78 Bromoform	173		19.896				ND	
S 79 Xylenes, Total	106				0		0.2204	
81 1,1,2,2-Tetrachloroethane	83		20.819				ND	
85 2-Chlorotoluene	91		21.102				ND	U
84 4-Ethyltoluene	105	21.097	21.097	-0.005	1	1616	0.0145	M
87 1,3,5-Trimethylbenzene	105	21.225	21.225	0.011	10	1174	0.0129	M
90 1,2,4-Trimethylbenzene	105	21.817	21.817	0.000	96	3632	0.0393	
93 1,3-Dichlorobenzene	146		22.287				ND	MU
94 1,4-Dichlorobenzene	146		22.426				ND	U
98 1,2-Dichlorobenzene	146		22.949				ND	U
100 1,2,4-Trichlorobenzene	180		25.345				ND	U
101 Hexachlorobutadiene	225		25.542				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D

Injection Date: 17-Oct-2019 17:18:30

Instrument ID: CHC.i

Operator ID: ggg

Lims ID: 200-51013-A-1

Lab Sample ID: 200-51013-1

Worklist Smp#: 11

Client ID: AS Effluent 4Q19

Purge Vol: 200.000 mL

Dil. Factor: 2.0000

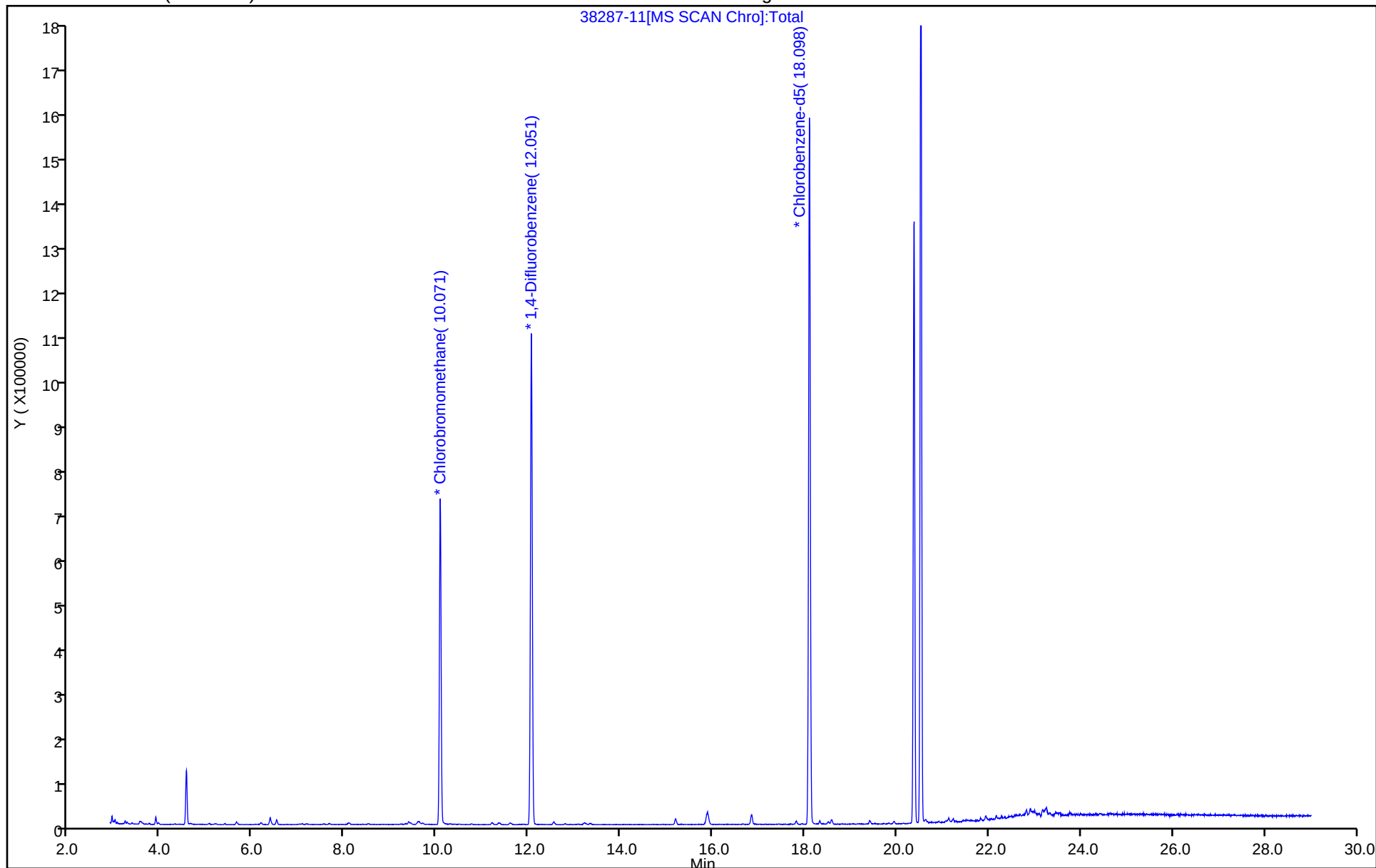
ALS Bottle#: 10

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D

Injection Date: 17-Oct-2019 17:18:30

Instrument ID: CHC.i

Lims ID: 200-51013-A-1

Lab Sample ID: 200-51013-1

Client ID: AS Effluent 4Q19

Operator ID: ggg

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 200.000 mL

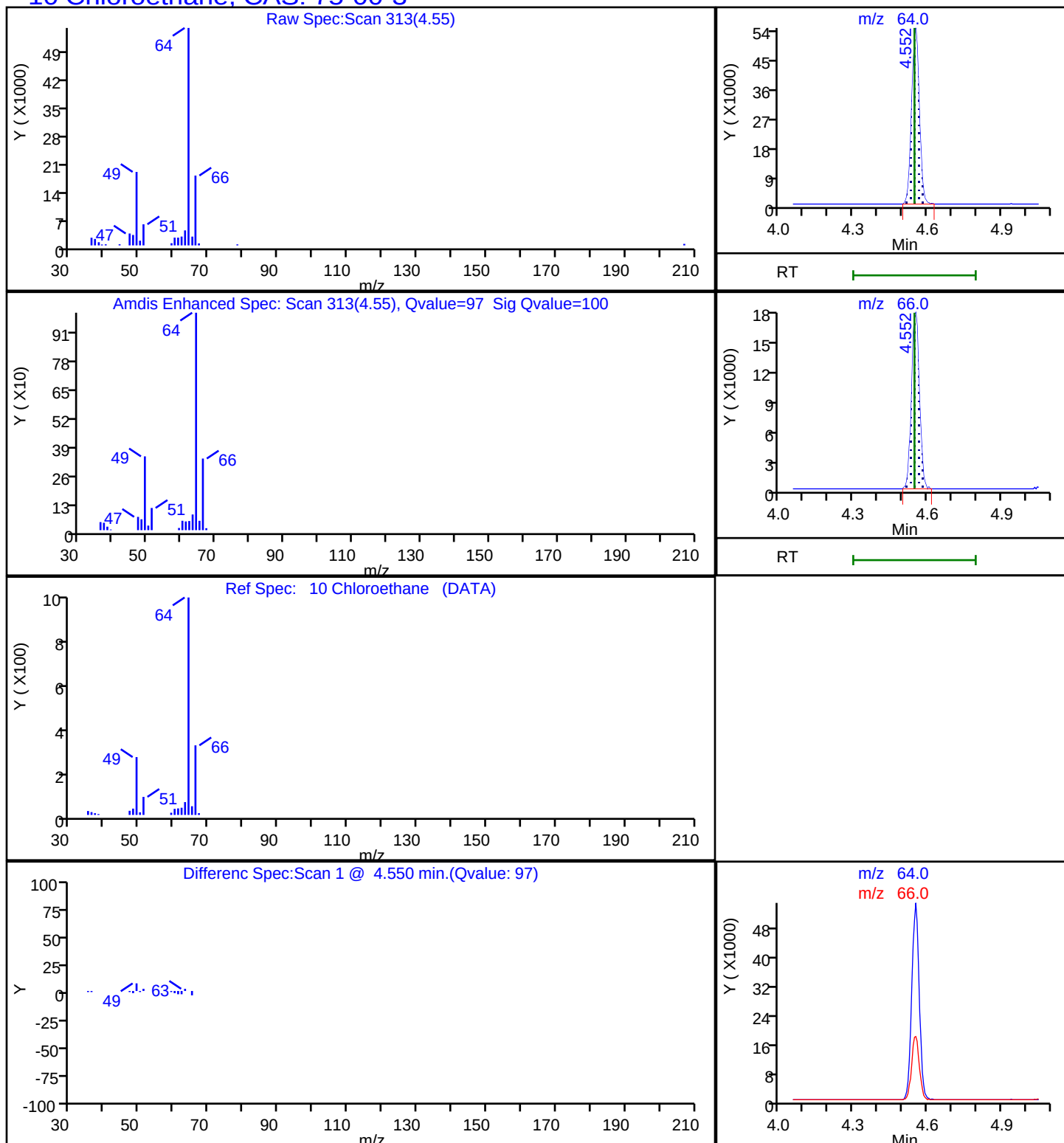
Dil. Factor: 2.0000

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

10 Chloroethane, CAS: 75-00-3

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D

Injection Date: 17-Oct-2019 17:18:30

Instrument ID: CHC.i

Lims ID: 200-51013-A-1

Lab Sample ID: 200-51013-1

Client ID: AS Effluent 4Q19

Operator ID: ggg

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 200.000 mL

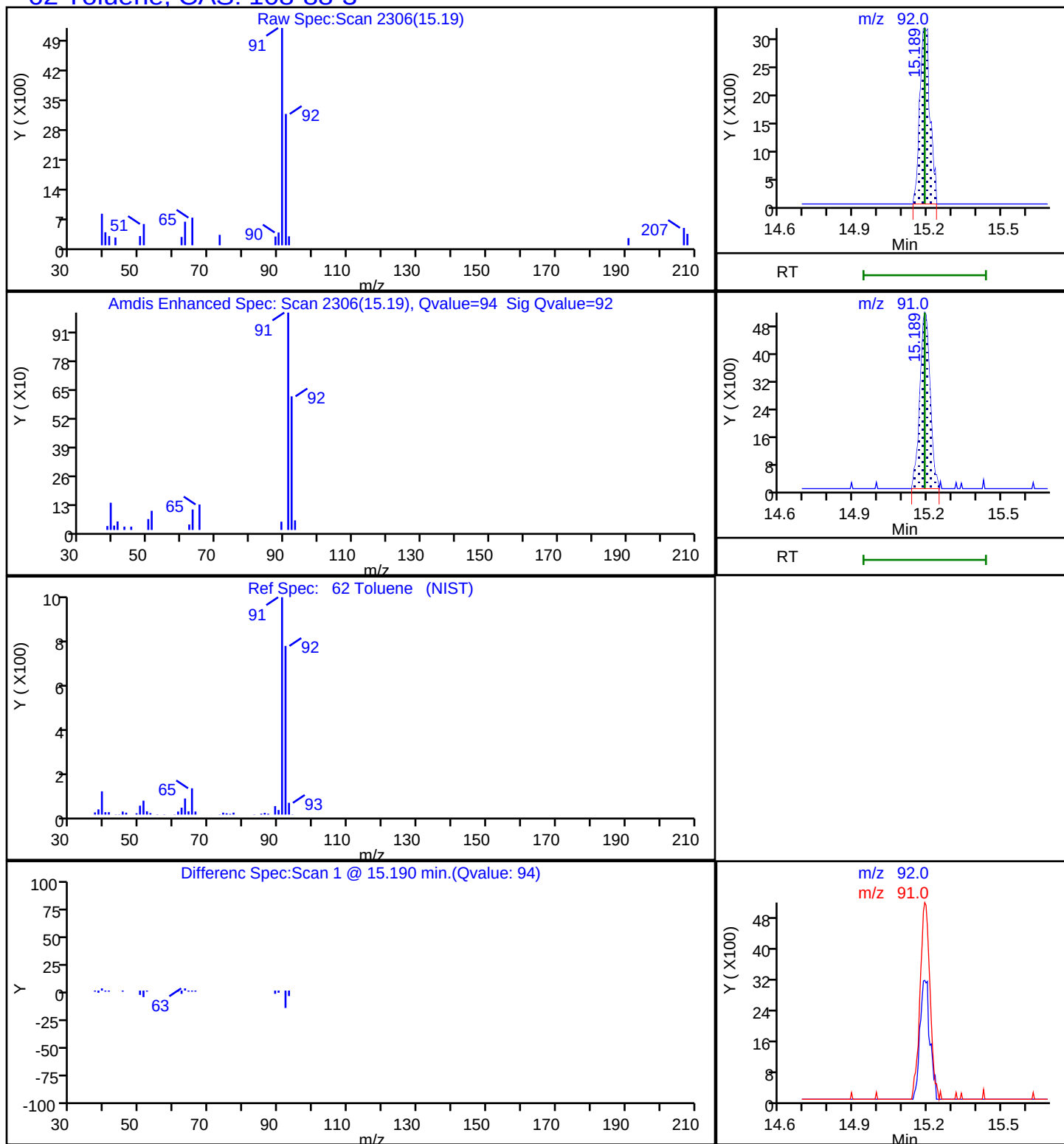
Dil. Factor: 2.0000

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

62 Toluene, CAS: 108-88-3

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D

Injection Date: 17-Oct-2019 17:18:30

Instrument ID: CHC.i

Lims ID: 200-51013-A-1

Lab Sample ID: 200-51013-1

Client ID: AS Effluent 4Q19

Operator ID: ggg

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 200.000 mL

Dil. Factor: 2.0000

Method: TO15_MasterMethod_(v1)_CHC.i

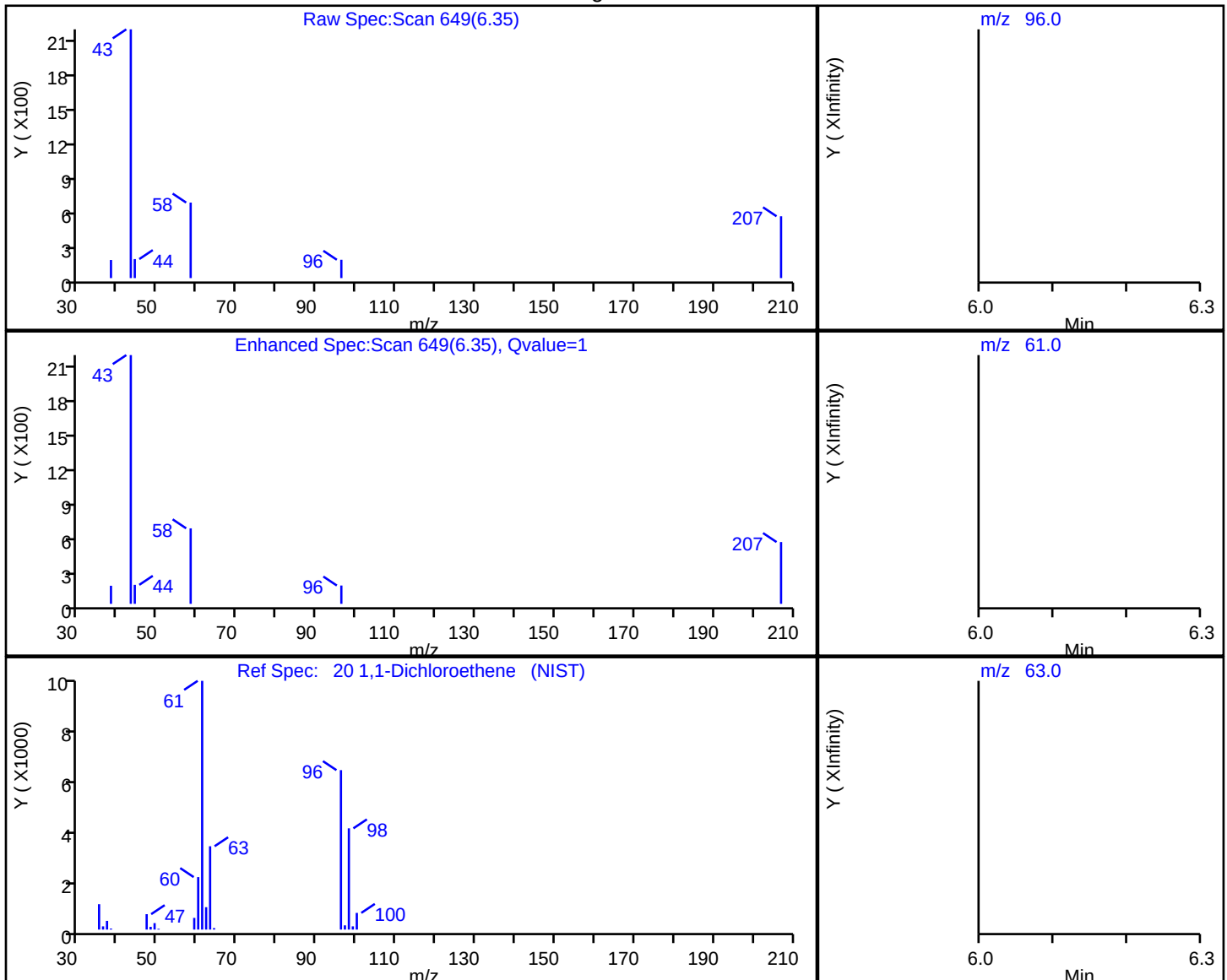
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



RT	Mass	Response	Amount
6.35	96.00	100	0.006390
6.14	61.00	0	
6.14	63.00	0	

Reviewer: bunmaa, 18-Oct-2019 11:51:28

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D

Injection Date: 17-Oct-2019 17:18:30

Instrument ID: CHC.i

Lims ID: 200-51013-A-1

Lab Sample ID: 200-51013-1

Client ID: AS Effluent 4Q19

Operator ID: ggg

ALS Bottle#:

10

Worklist Smp#: 11

Purge Vol: 200.000 mL

Dil. Factor: 2.0000

Method: TO15_MasterMethod_(v1)_CHC.i

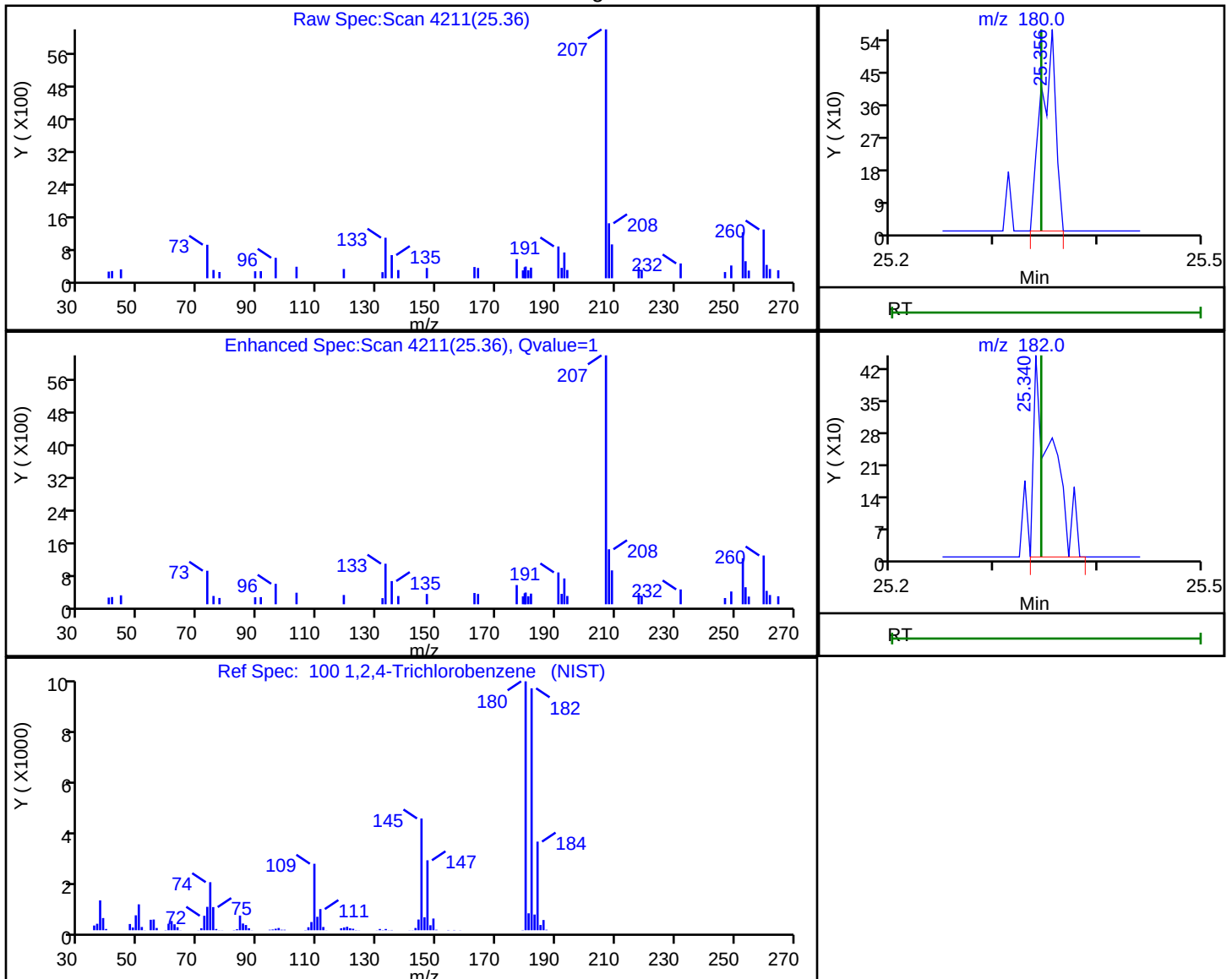
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

100 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



RT	Mass	Response	Amount
25.36	180.00	543	0.010663
25.34	182.00	548	

Reviewer: bunmaa, 18-Oct-2019 11:56:45

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D

Injection Date: 17-Oct-2019 17:18:30

Instrument ID: CHC.i

Lims ID: 200-51013-A-1

Lab Sample ID: 200-51013-1

Client ID: AS Effluent 4Q19

Operator ID: ggg

ALS Bottle#:

10

Worklist Smp#: 11

Purge Vol: 200.000 mL

Dil. Factor: 2.0000

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group:

AI_TO15_ICAL

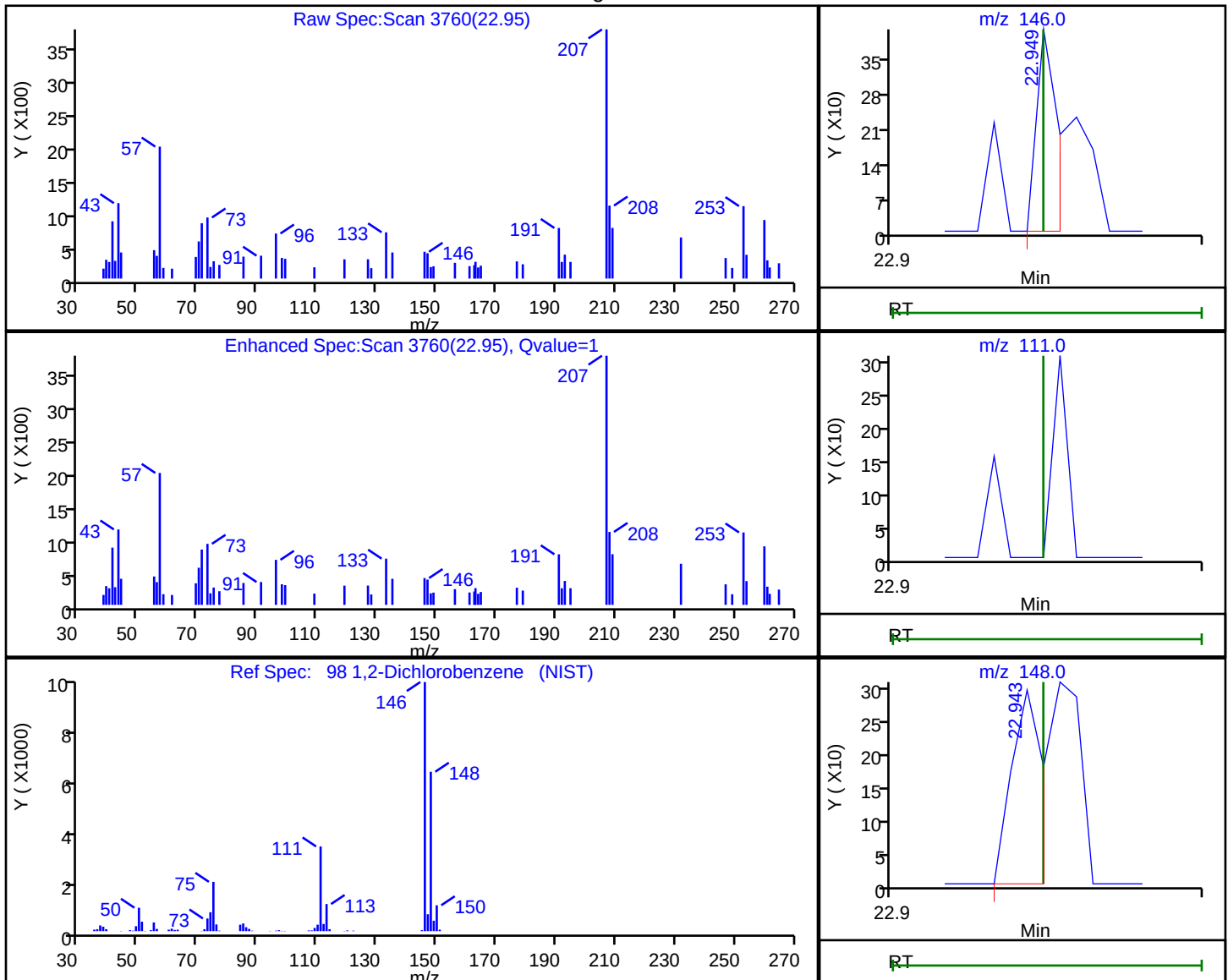
Column: RTX-624 (0.32 mm)

Detector

MS SCAN

98 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



RT	Mass	Response	Amount
22.95	146.00	193	0.002764
22.94	148.00	202	
22.95	111.00	0	

Reviewer: bunmaa, 18-Oct-2019 11:56:42

Audit Action: Marked Compound Undetected

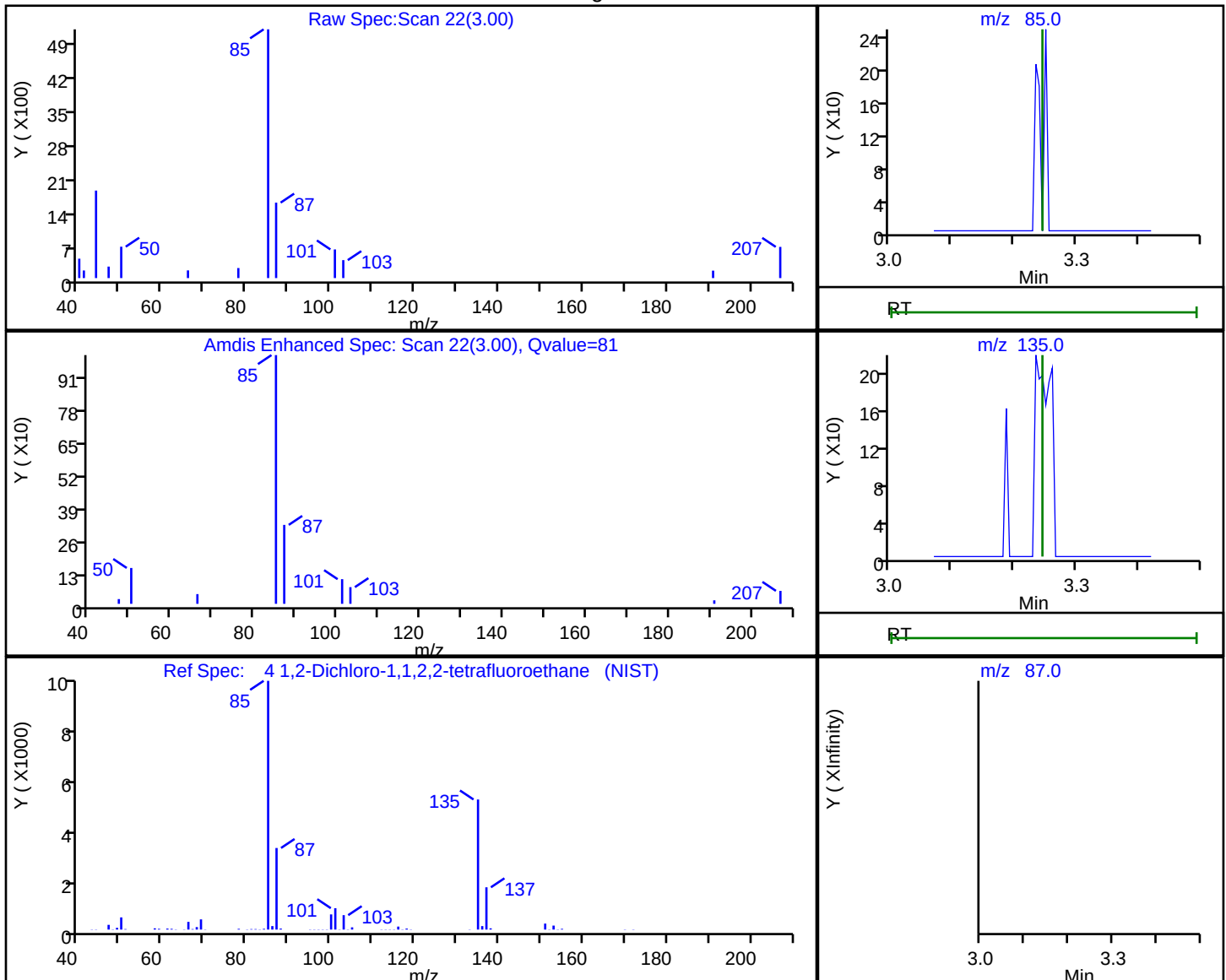
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D
Injection Date: 17-Oct-2019 17:18:30 Instrument ID: CHC.i
Lims ID: 200-51013-A-1 Lab Sample ID: 200-51013-1
Client ID: AS Effluent 4Q19
Operator ID: ggg ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 2.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Processing Results



RT	Mass	Response	Amount
3.00	85.00	7438	0.178706
3.24	135.00	0	
3.00	87.00	2507	

Reviewer: bunmaa, 18-Oct-2019 11:50:49

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

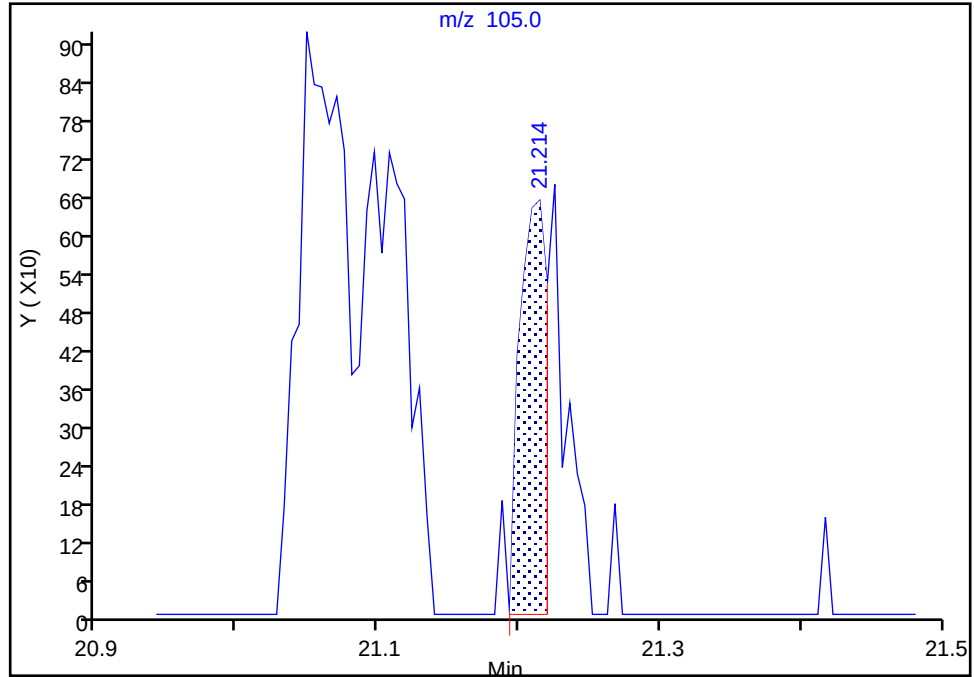
Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D
Injection Date: 17-Oct-2019 17:18:30 Instrument ID: CHC.i
Lims ID: 200-51013-A-1 Lab Sample ID: 200-51013-1
Client ID: AS Effluent 4Q19
Operator ID: ggg ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 2.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

87 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

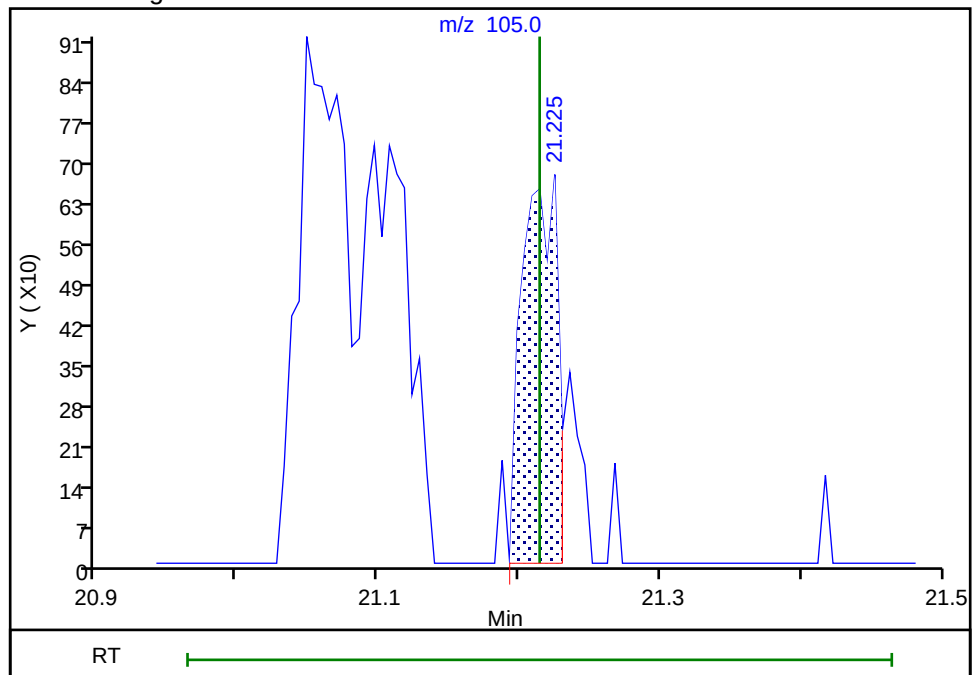
RT: 21.21
Area: 884
Amount: 0.009681
Amount Units: ppb v/v

Processing Integration Results



RT: 21.22
Area: 1174
Amount: 0.012857
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:56:11
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D

Injection Date: 17-Oct-2019 17:18:30

Instrument ID: CHC.i

Lims ID: 200-51013-A-1

Lab Sample ID: 200-51013-1

Client ID: AS Effluent 4Q19

Operator ID: ggg

ALS Bottle#:

10

Worklist Smp#: 11

Purge Vol: 200.000 mL

Dil. Factor: 2.0000

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group:

AI_TO15_ICAL

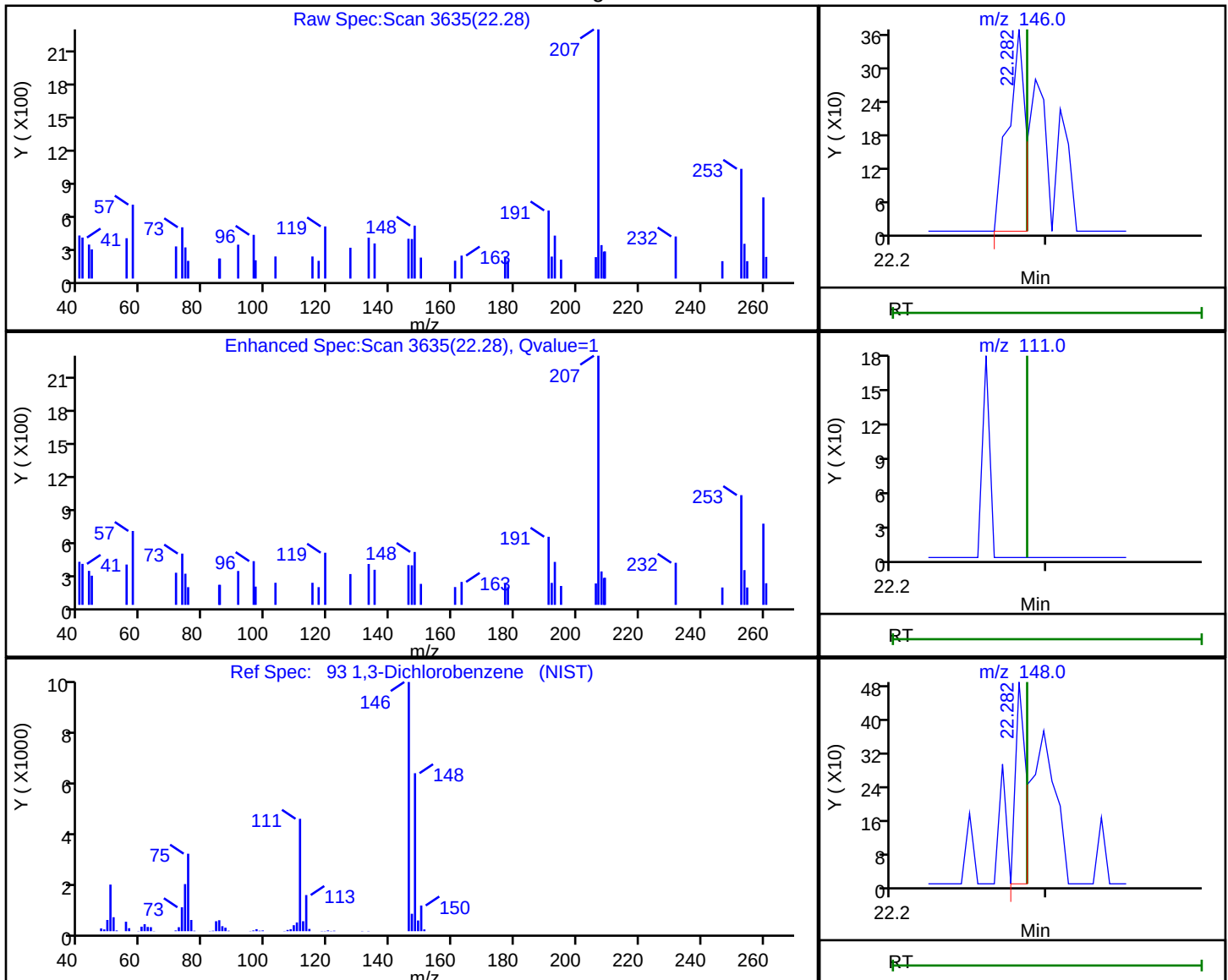
Column: RTX-624 (0.32 mm)

Detector

MS SCAN

93 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
22.28	146.00	284	0.003866
22.29	111.00	0	
22.28	148.00	231	

Reviewer: bunmaa, 18-Oct-2019 11:56:28

Audit Action: Marked Compound Undetected

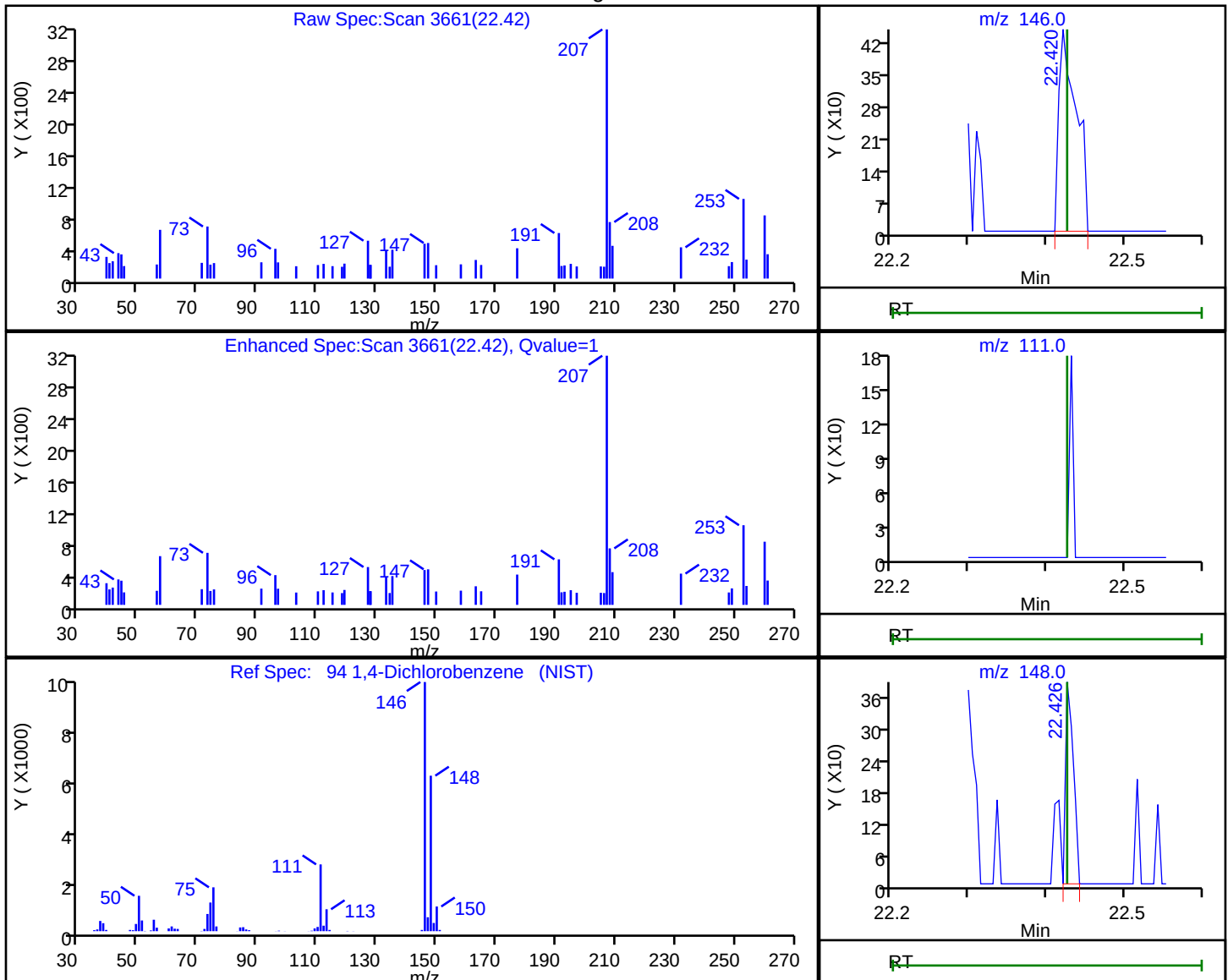
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D
Injection Date: 17-Oct-2019 17:18:30 Instrument ID: CHC.i
Lims ID: 200-51013-A-1 Lab Sample ID: 200-51013-1
Client ID: AS Effluent 4Q19
Operator ID: ggg ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 2.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
22.42	146.00	693	0.009548
22.43	111.00	0	
22.43	148.00	269	

Reviewer: bunmaa, 18-Oct-2019 11:56:39

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

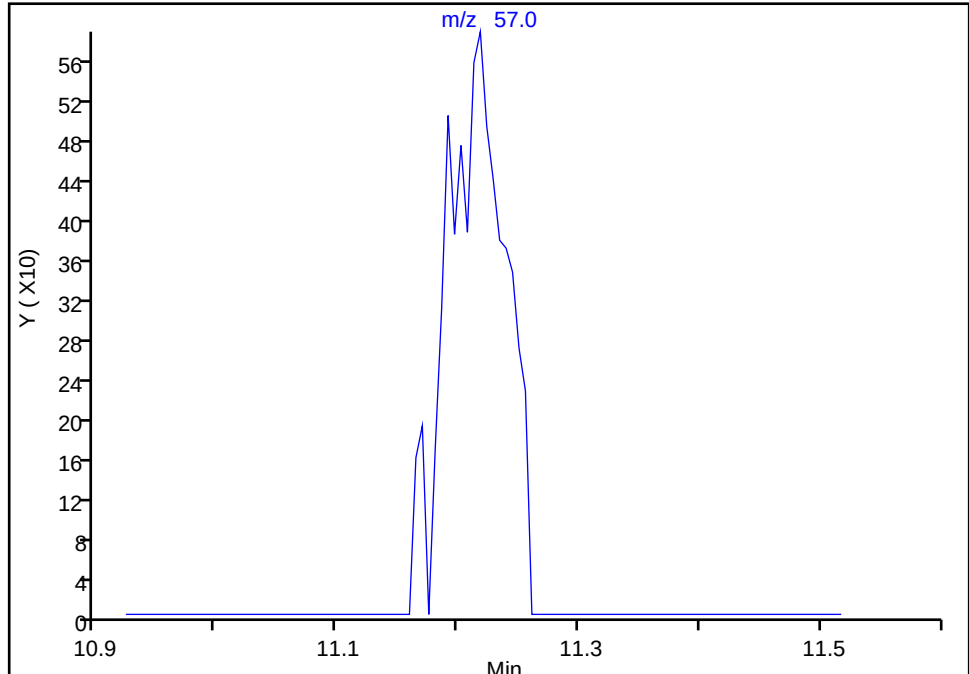
Data File:	\\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D				
Injection Date:	17-Oct-2019 17:18:30	Instrument ID:	CHC.i		
Lims ID:	200-51013-A-1	Lab Sample ID:	200-51013-1		
Client ID:	AS Effluent 4Q19				
Operator ID:	ggg	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector:	MS SCAN		

46 Isooctane, CAS: 540-84-1

Signal: 1

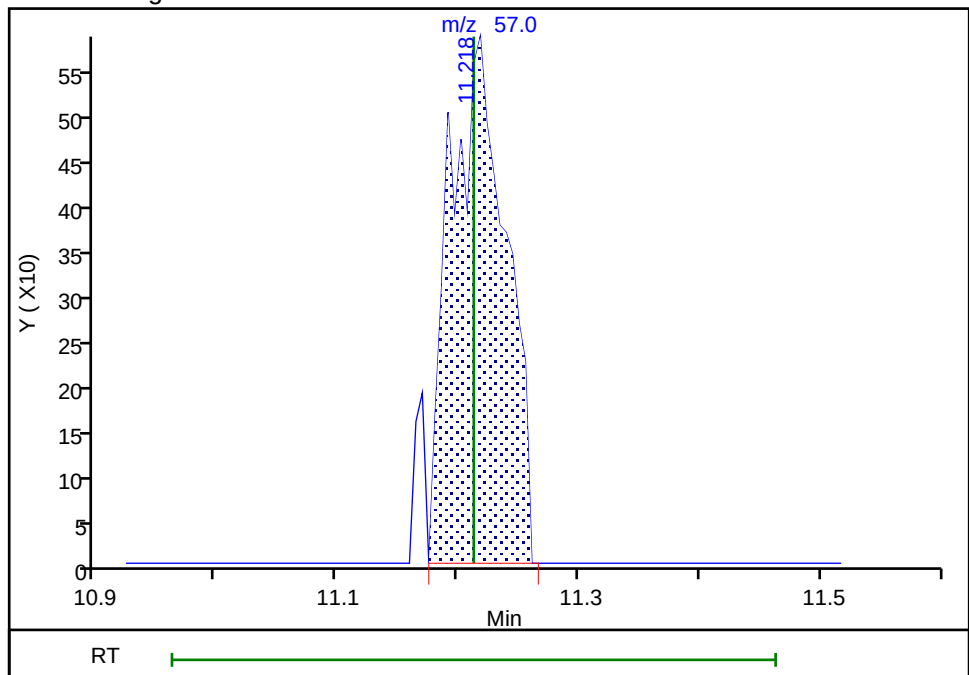
Not Detected
Expected RT: 11.21

Processing Integration Results



RT: 11.22
Area: 1872
Amount: 0.023154
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:53:43
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D

Injection Date: 17-Oct-2019 17:18:30

Instrument ID: CHC.i

Lims ID: 200-51013-A-1

Lab Sample ID: 200-51013-1

Client ID: AS Effluent 4Q19

Operator ID: ggg

ALS Bottle#:

10

Worklist Smp#: 11

Purge Vol: 200.000 mL

Dil. Factor: 2.0000

Method: TO15_MasterMethod_(v1)_CHC.i

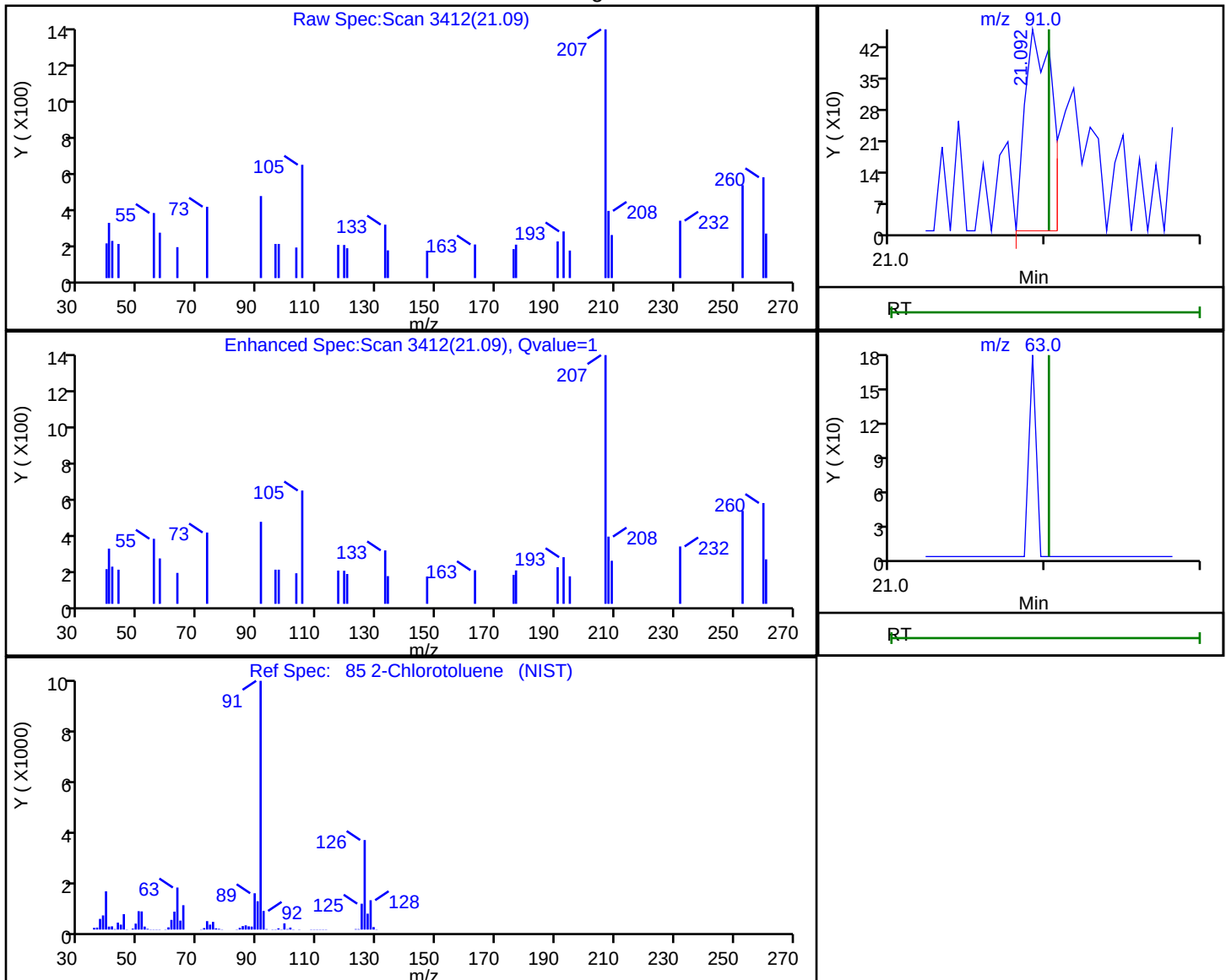
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

85 2-Chlorotoluene, CAS: 95-49-8

Processing Results



RT	Mass	Response	Amount
21.09	91.00	554	0.006072
21.10	63.00	0	

Reviewer: bunmaa, 18-Oct-2019 11:55:39

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D

Injection Date: 17-Oct-2019 17:18:30

Instrument ID: CHC.i

Lims ID: 200-51013-A-1

Lab Sample ID: 200-51013-1

Client ID: AS Effluent 4Q19

Operator ID: ggg

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 200.000 mL

Dil. Factor: 2.0000

Method: TO15_MasterMethod_(v1)_CHC.i

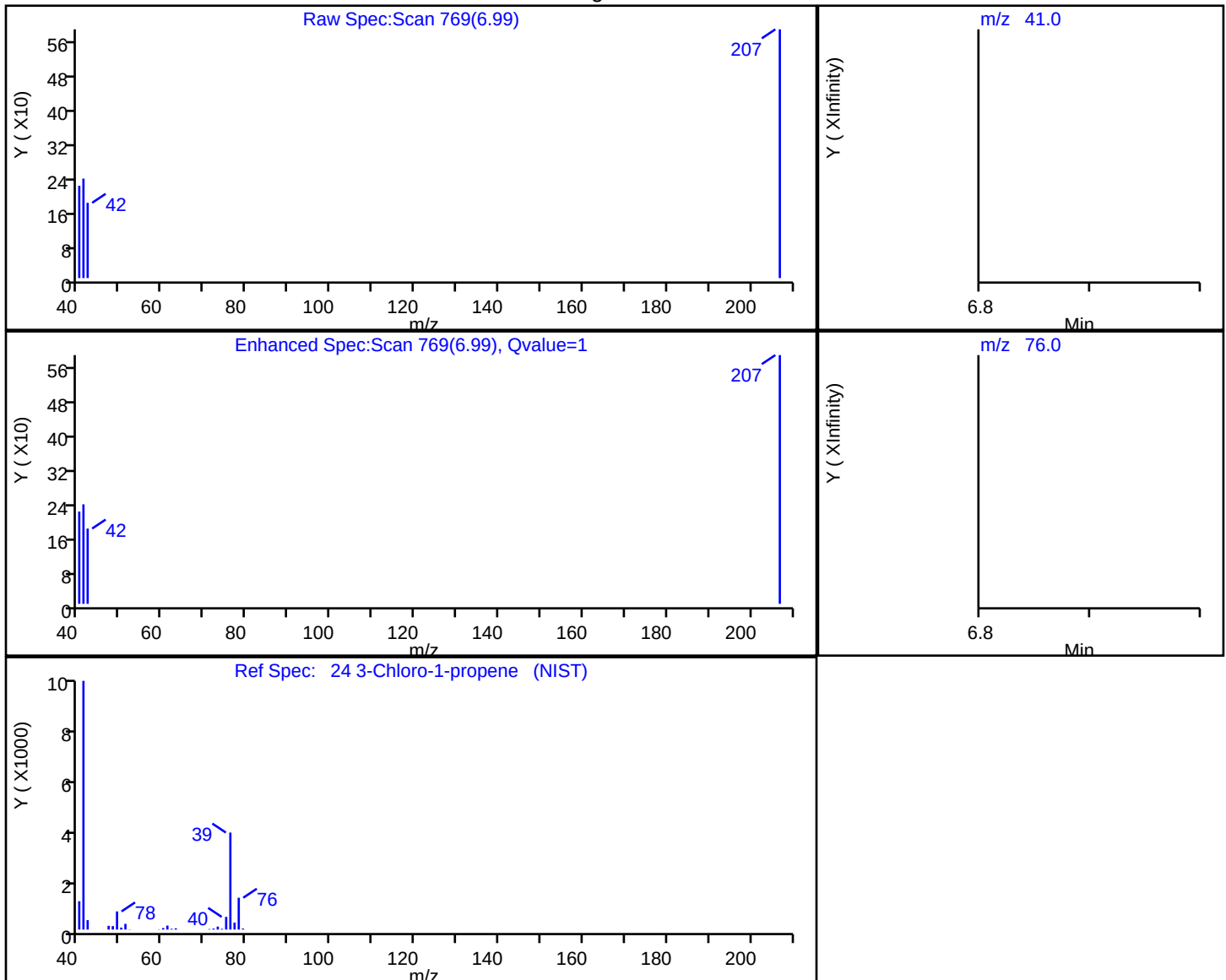
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

24 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
6.99	41.00	197	0.011819
6.91	76.00	0	

Reviewer: bunmaa, 18-Oct-2019 11:51:44

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

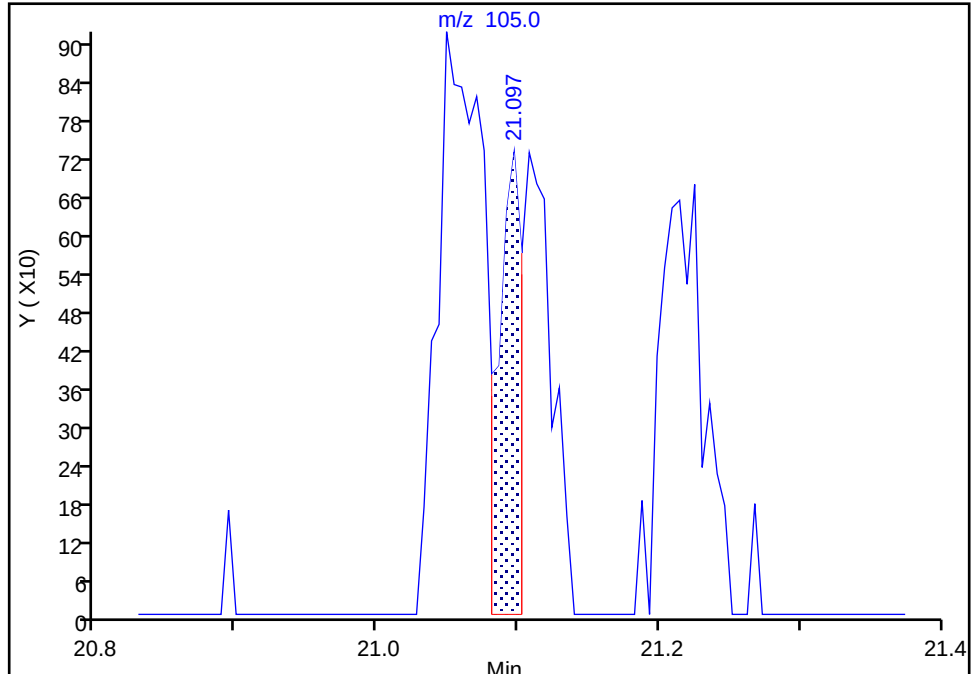
Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D
Injection Date: 17-Oct-2019 17:18:30 Instrument ID: CHC.i
Lims ID: 200-51013-A-1 Lab Sample ID: 200-51013-1
Client ID: AS Effluent 4Q19
Operator ID: ggg ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 2.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

84 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

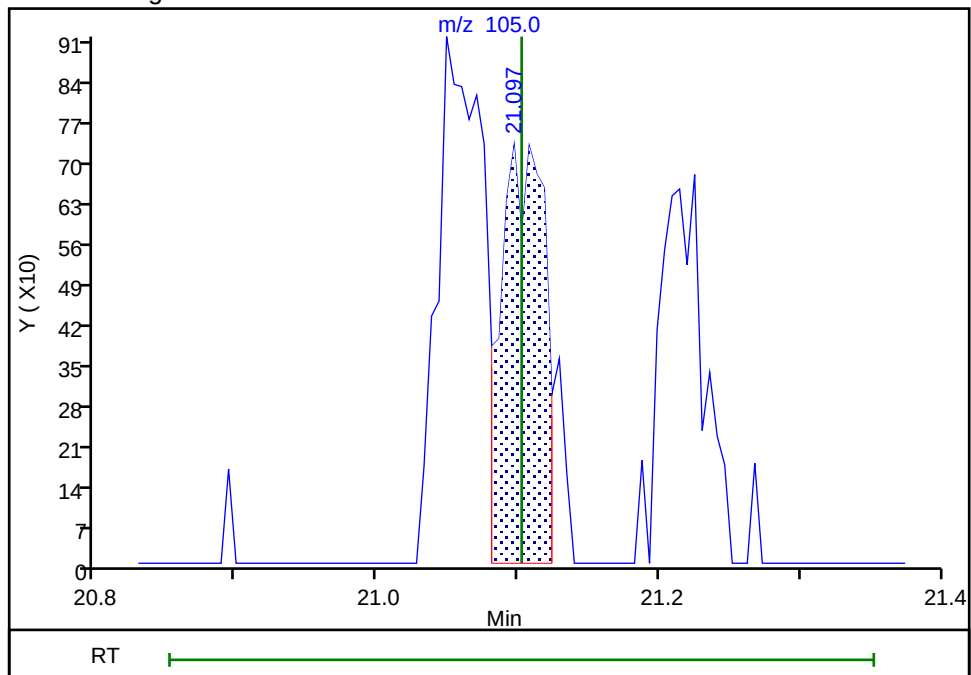
RT: 21.10
Area: 864
Amount: 0.007740
Amount Units: ppb v/v

Processing Integration Results



RT: 21.10
Area: 1616
Amount: 0.014476
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:55:51
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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Eurofins TestAmerica, Burlington

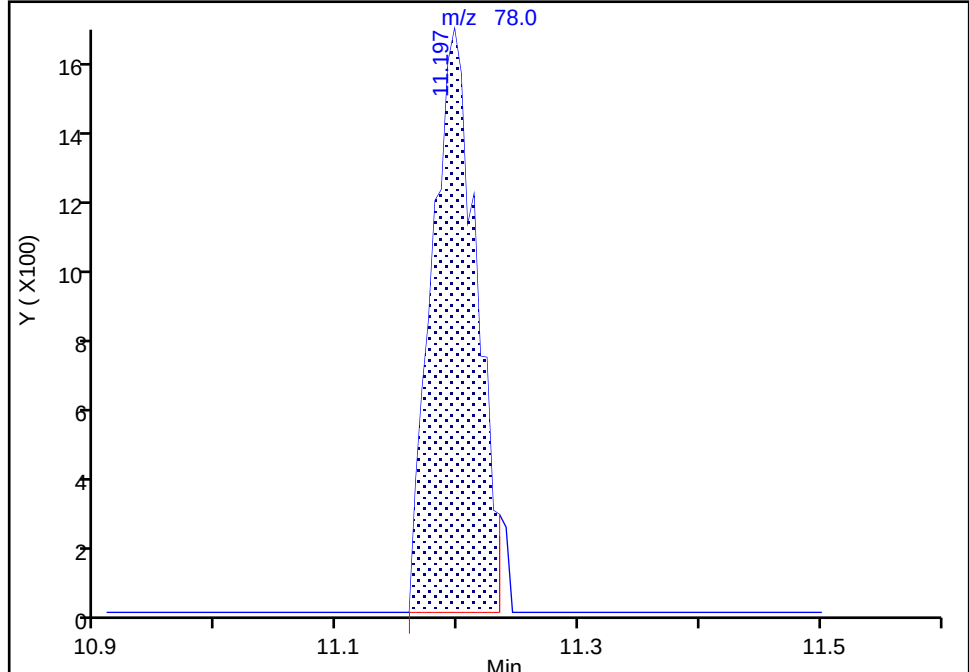
Data File:	\\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D				
Injection Date:	17-Oct-2019 17:18:30	Instrument ID:	CHC.i		
Lims ID:	200-51013-A-1	Lab Sample ID:	200-51013-1		
Client ID:	AS Effluent 4Q19				
Operator ID:	ggg	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

45 Benzene, CAS: 71-43-2

Signal: 1

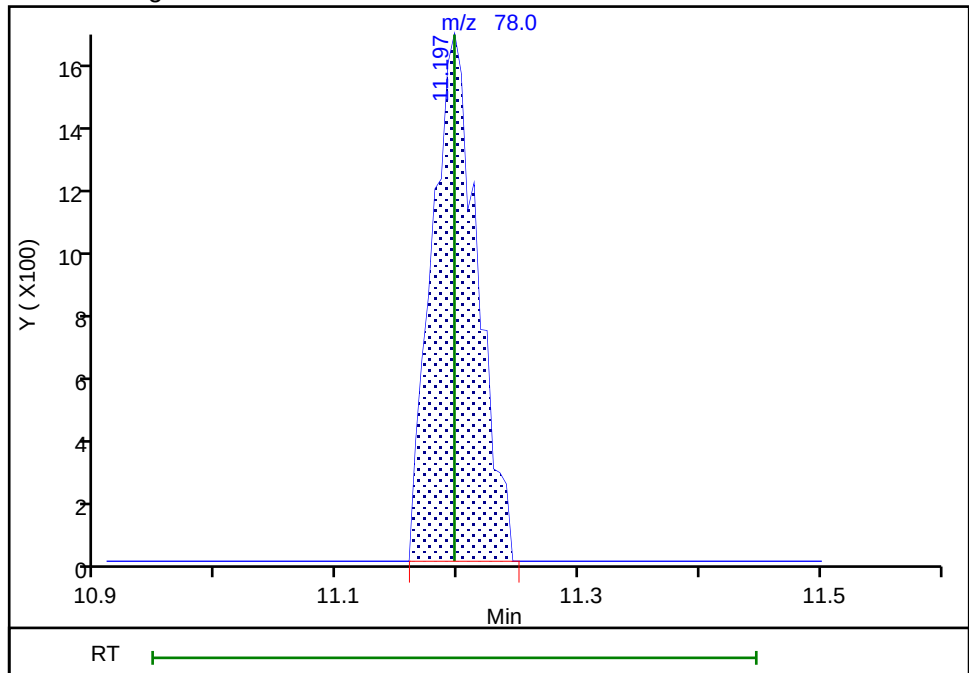
RT: 11.20
Area: 4192
Amount: 0.079802
Amount Units: ppb v/v

Processing Integration Results



RT: 11.20
Area: 4269
Amount: 0.081268
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:53:22
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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Eurofins TestAmerica, Burlington

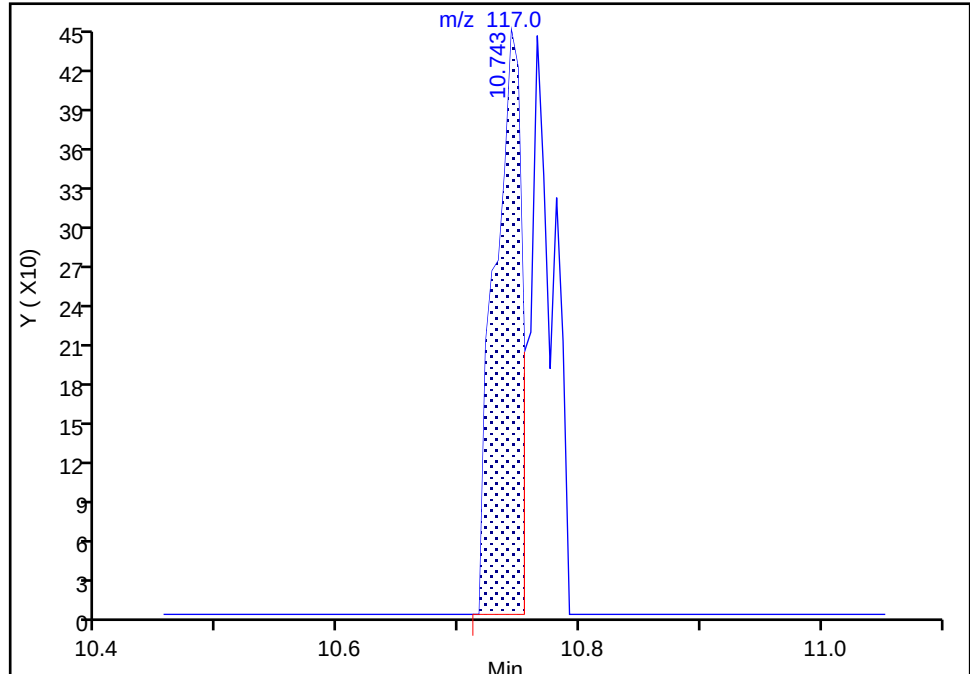
Data File:	\\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D				
Injection Date:	17-Oct-2019 17:18:30	Instrument ID:	CHC.i		
Lims ID:	200-51013-A-1	Lab Sample ID:	200-51013-1		
Client ID:	AS Effluent 4Q19				
Operator ID:	ggg	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector:	MS SCAN		

44 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

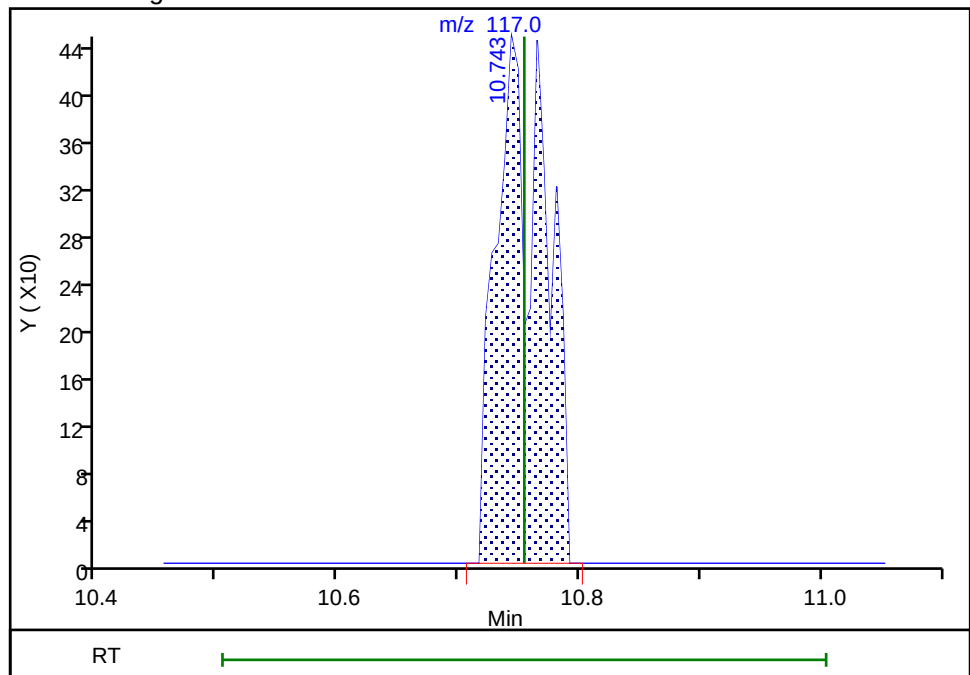
RT: 10.74
Area: 689
Amount: 0.017370
Amount Units: ppb v/v

Processing Integration Results



RT: 10.74
Area: 1236
Amount: 0.031160
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:53:09
Audit Action: Manually Integrated

Audit Reason: Assign Peak
Page 50 of 247

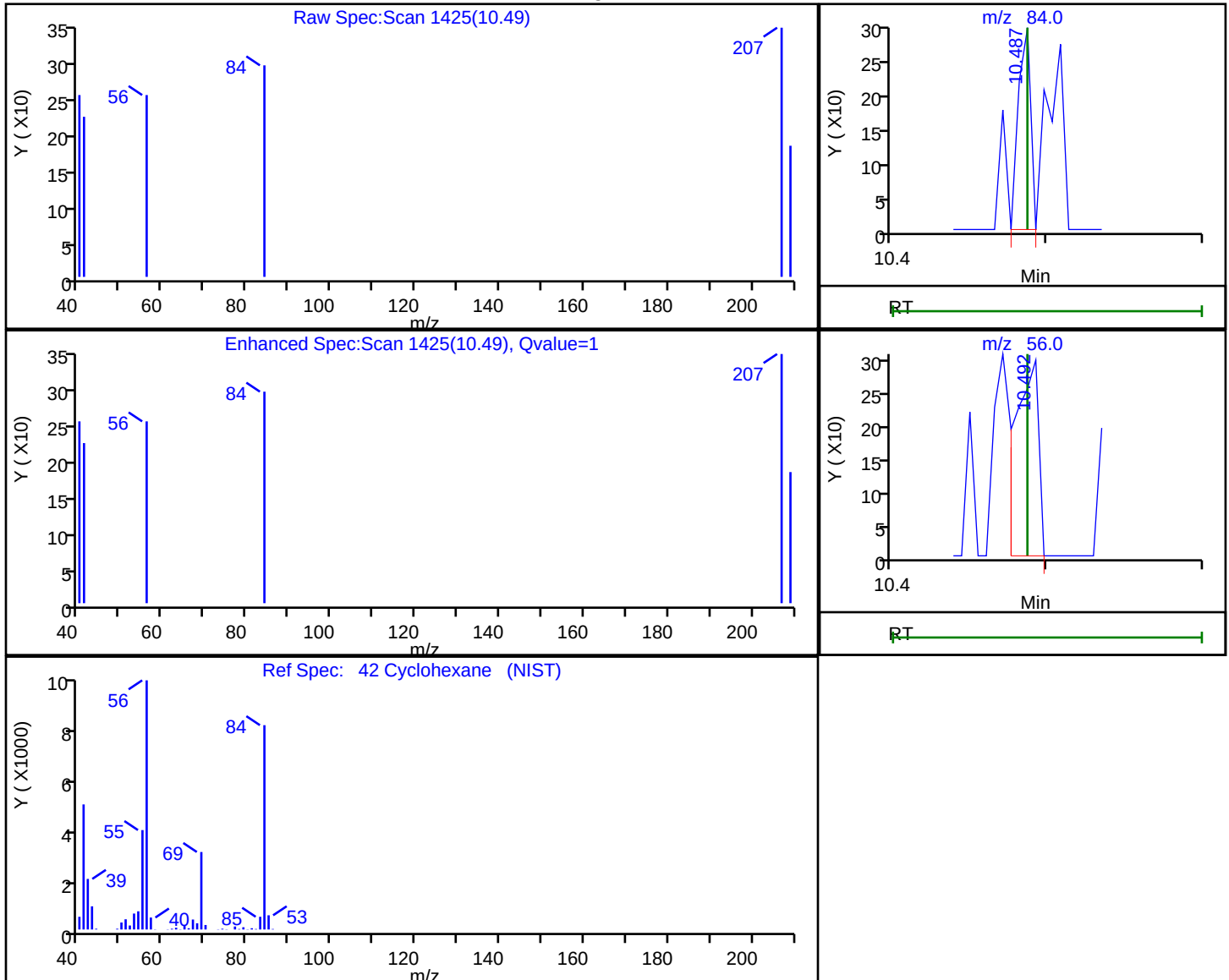
10/18/2019

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D
Injection Date: 17-Oct-2019 17:18:30 Instrument ID: CHC.i
Lims ID: 200-51013-A-1 Lab Sample ID: 200-51013-1
Client ID: AS Effluent 4Q19
Operator ID: ggg ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 2.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

42 Cyclohexane, CAS: 110-82-7

Processing Results



RT	Mass	Response	Amount
10.49	84.00	162	0.007521
10.49	56.00	307	

Reviewer: bunmaa, 18-Oct-2019 11:52:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D

Injection Date: 17-Oct-2019 17:18:30

Instrument ID: CHC.i

Lims ID: 200-51013-A-1

Lab Sample ID: 200-51013-1

Client ID: AS Effluent 4Q19

Operator ID: ggg

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 200.000 mL

Dil. Factor: 2.0000

Method: TO15_MasterMethod_(v1)_CHC.i

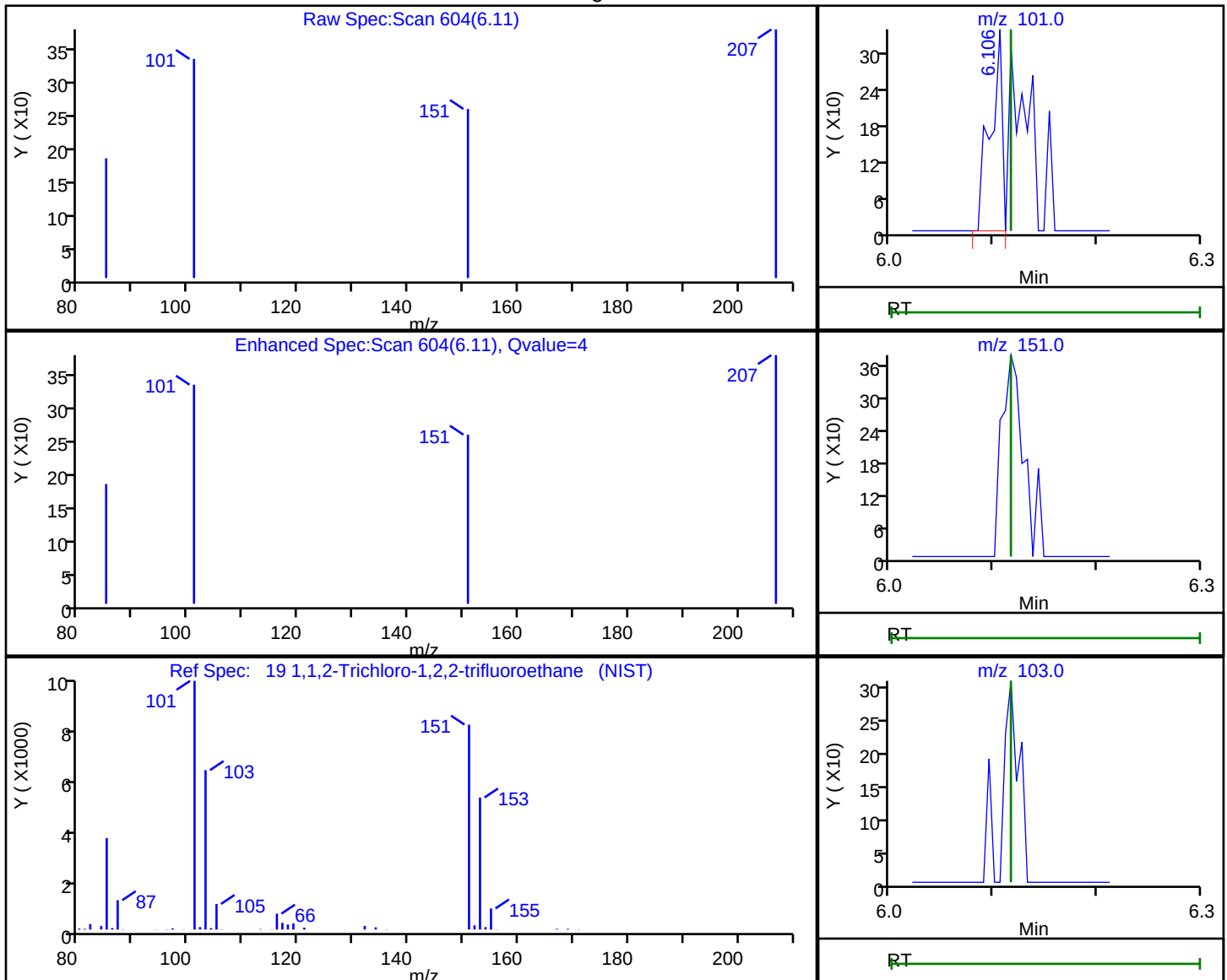
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

19 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results



RT	Mass	Response	Amount
6.11	101.00	264	0.007917
6.12	151.00	0	
6.12	103.00	0	

Reviewer: bunmaa, 18-Oct-2019 11:51:25

Audit Action: Marked Compound Undetected

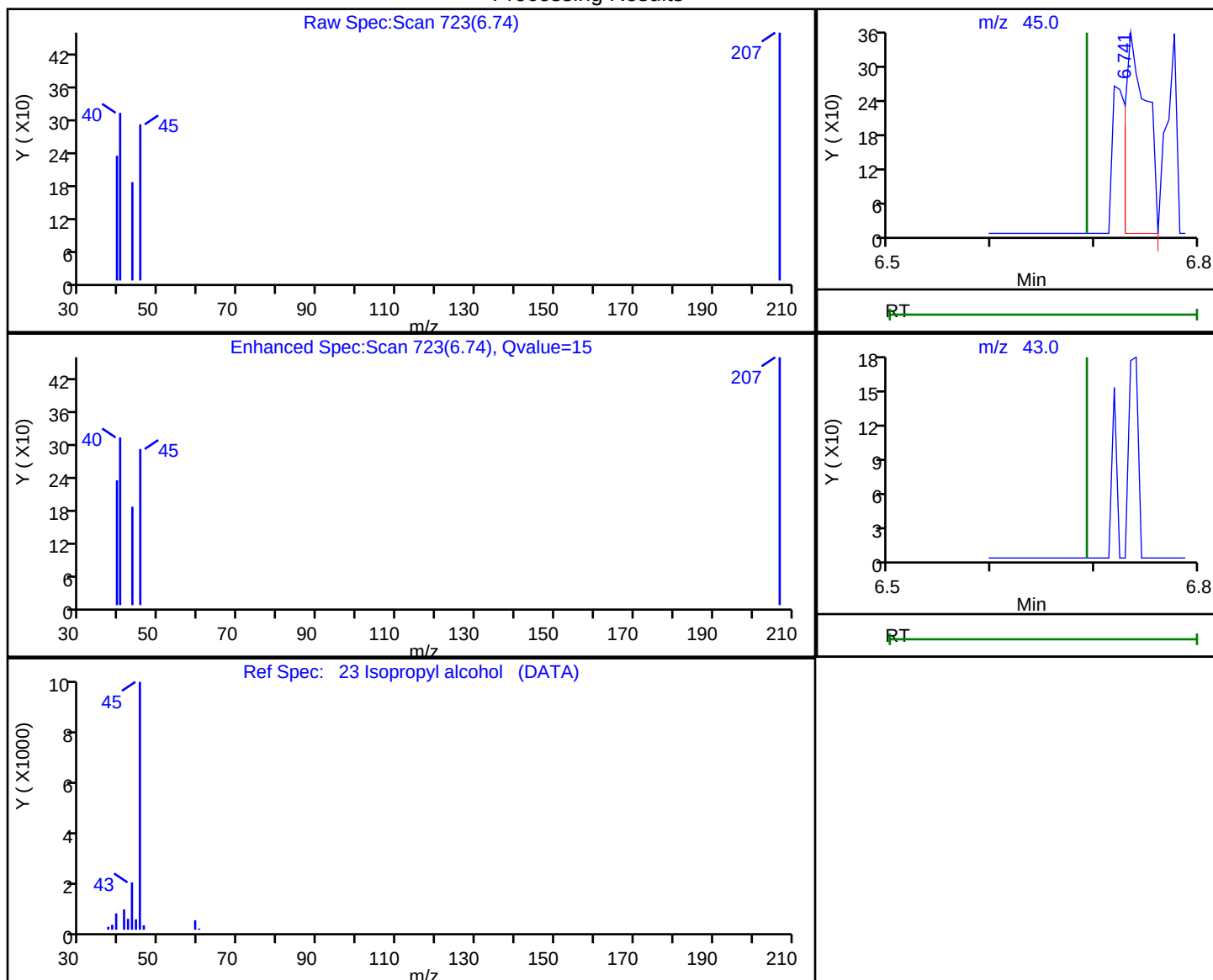
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D
Injection Date: 17-Oct-2019 17:18:30 Instrument ID: CHC.i
Lims ID: 200-51013-A-1 Lab Sample ID: 200-51013-1
Client ID: AS Effluent 4Q19
Operator ID: ggg ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 2.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

23 Isopropyl alcohol, CAS: 67-63-0

Processing Results



RT	Mass	Response	Amount
6.74	45.00	504	0.025962
6.69	43.00	0	

Reviewer: bunmaa, 18-Oct-2019 11:51:40

Audit Action: Marked Compound Undetected

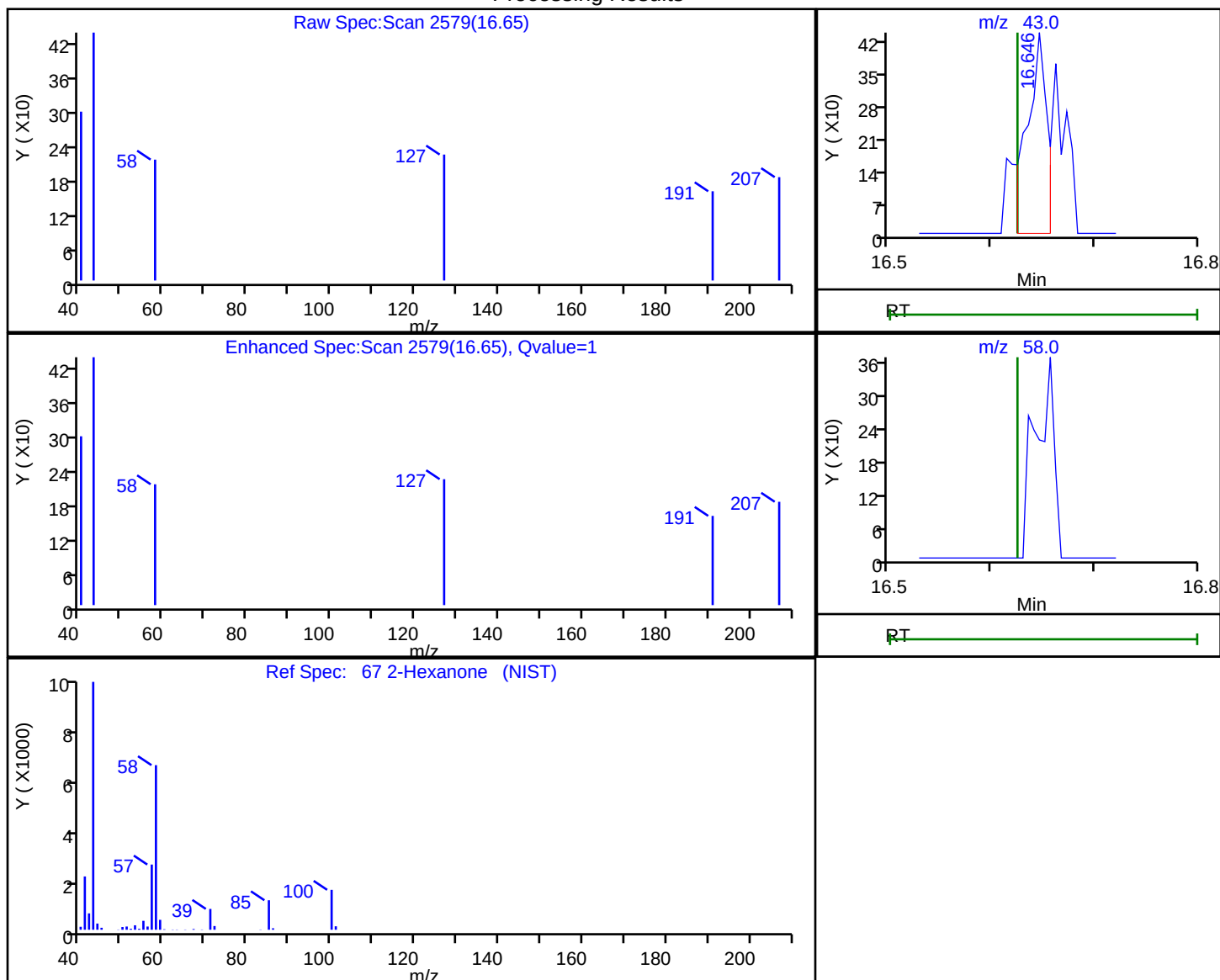
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D
Injection Date: 17-Oct-2019 17:18:30 Instrument ID: CHC.i
Lims ID: 200-51013-A-1 Lab Sample ID: 200-51013-1
Client ID: AS Effluent 4Q19
Operator ID: ggg ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 2.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

67 2-Hexanone, CAS: 591-78-6

Processing Results



Reviewer: bunmaa, 18-Oct-2019 11:55:11

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D

Injection Date: 17-Oct-2019 17:18:30

Instrument ID: CHC.i

Lims ID: 200-51013-A-1

Lab Sample ID: 200-51013-1

Client ID: AS Effluent 4Q19

Operator ID: ggg

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 200.000 mL

Dil. Factor: 2.0000

Method: TO15_MasterMethod_(v1)_CHC.i

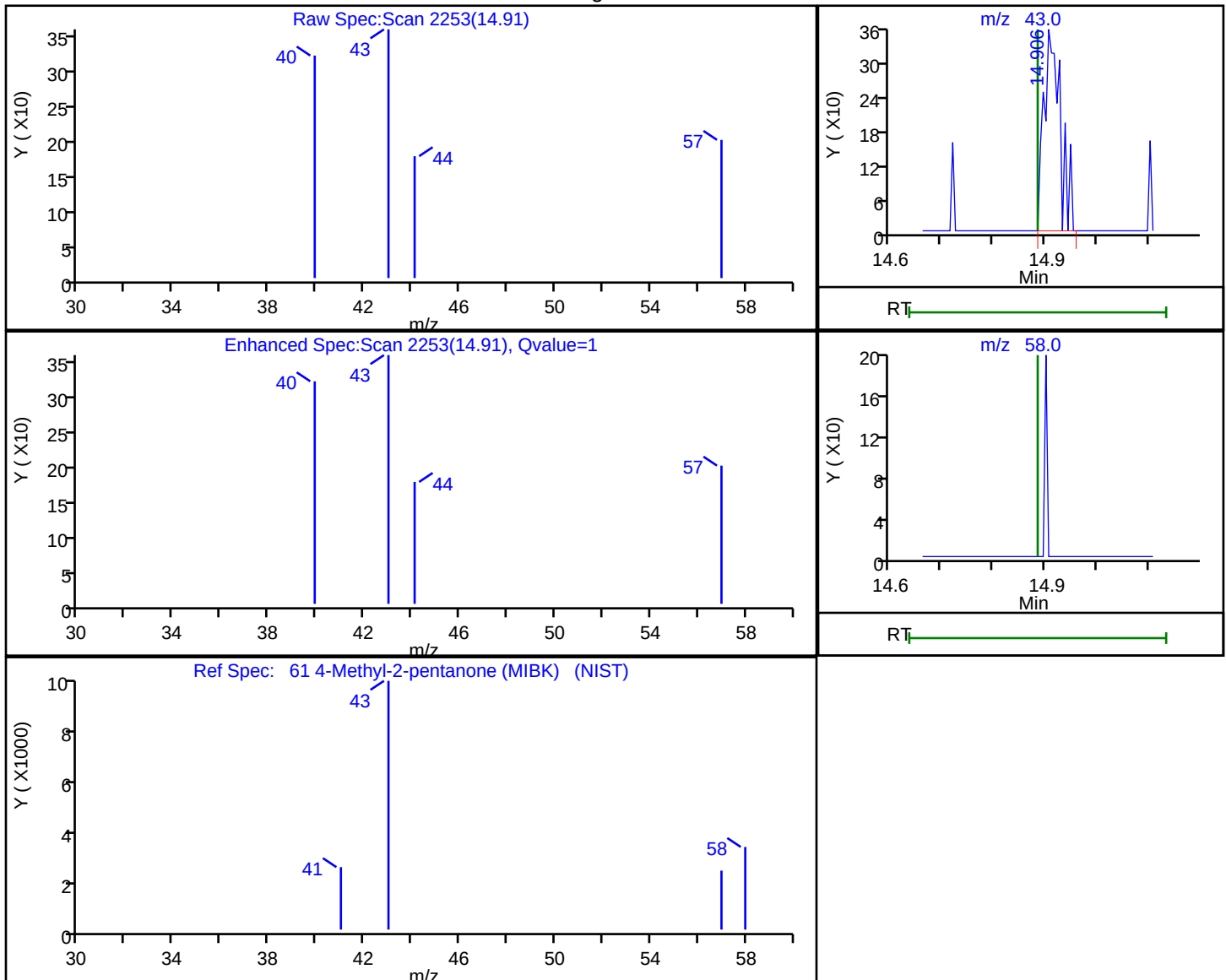
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
14.91	43.00	773	0.016921
14.88	58.00	0	

Reviewer: bunmaa, 18-Oct-2019 11:54:49

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D

Injection Date: 17-Oct-2019 17:18:30

Instrument ID: CHC.i

Lims ID: 200-51013-A-1

Lab Sample ID: 200-51013-1

Client ID: AS Effluent 4Q19

Operator ID: ggg

ALS Bottle#:

10

Worklist Smp#: 11

Purge Vol: 200.000 mL

Dil. Factor: 2.0000

Method: TO15_MasterMethod_(v1)_CHC.i

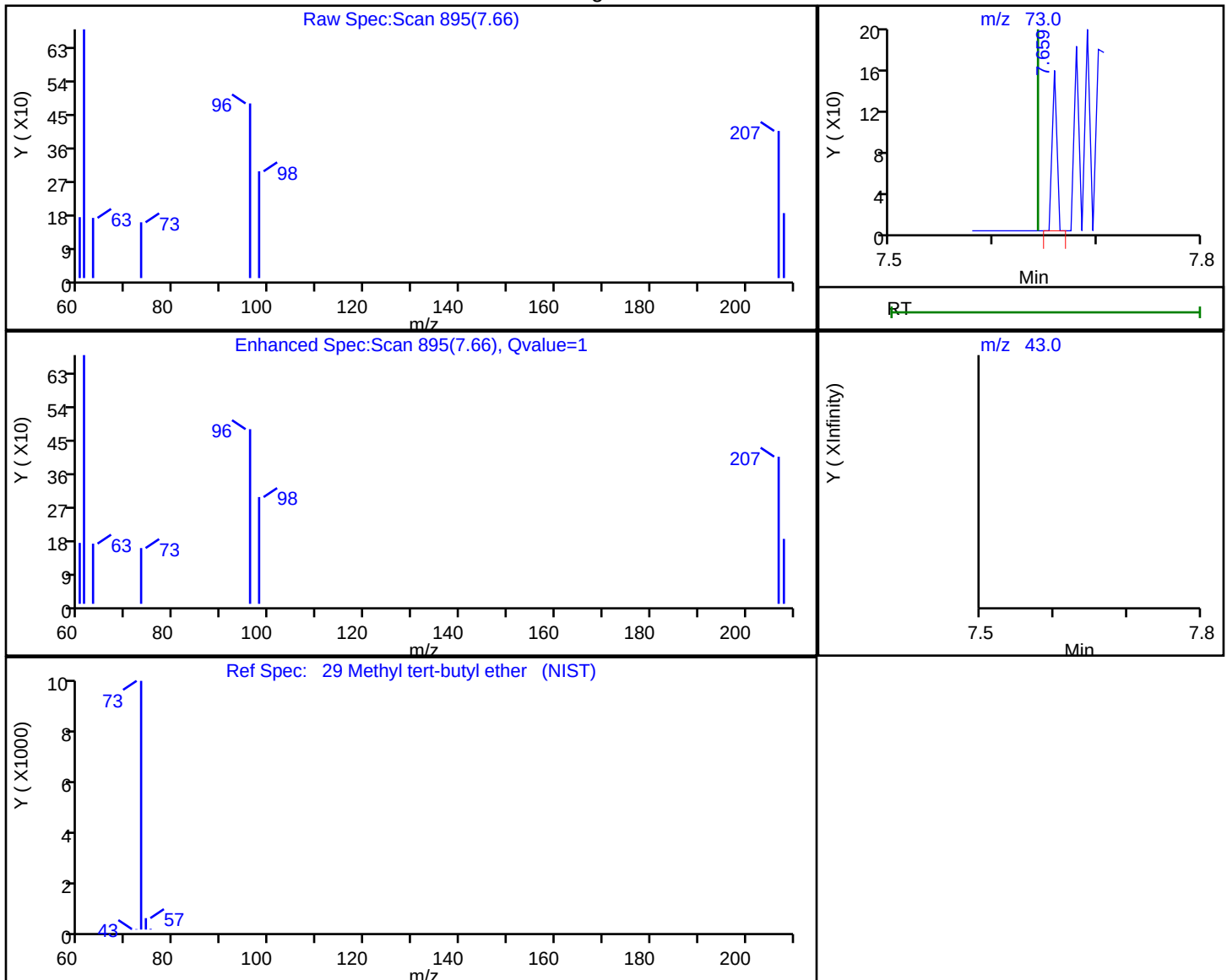
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

29 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



RT	Mass	Response	Amount
7.66	73.00	49	0.001260
7.64	43.00	0	

Reviewer: bunmaa, 18-Oct-2019 11:52:04

Audit Action: Marked Compound Undetected

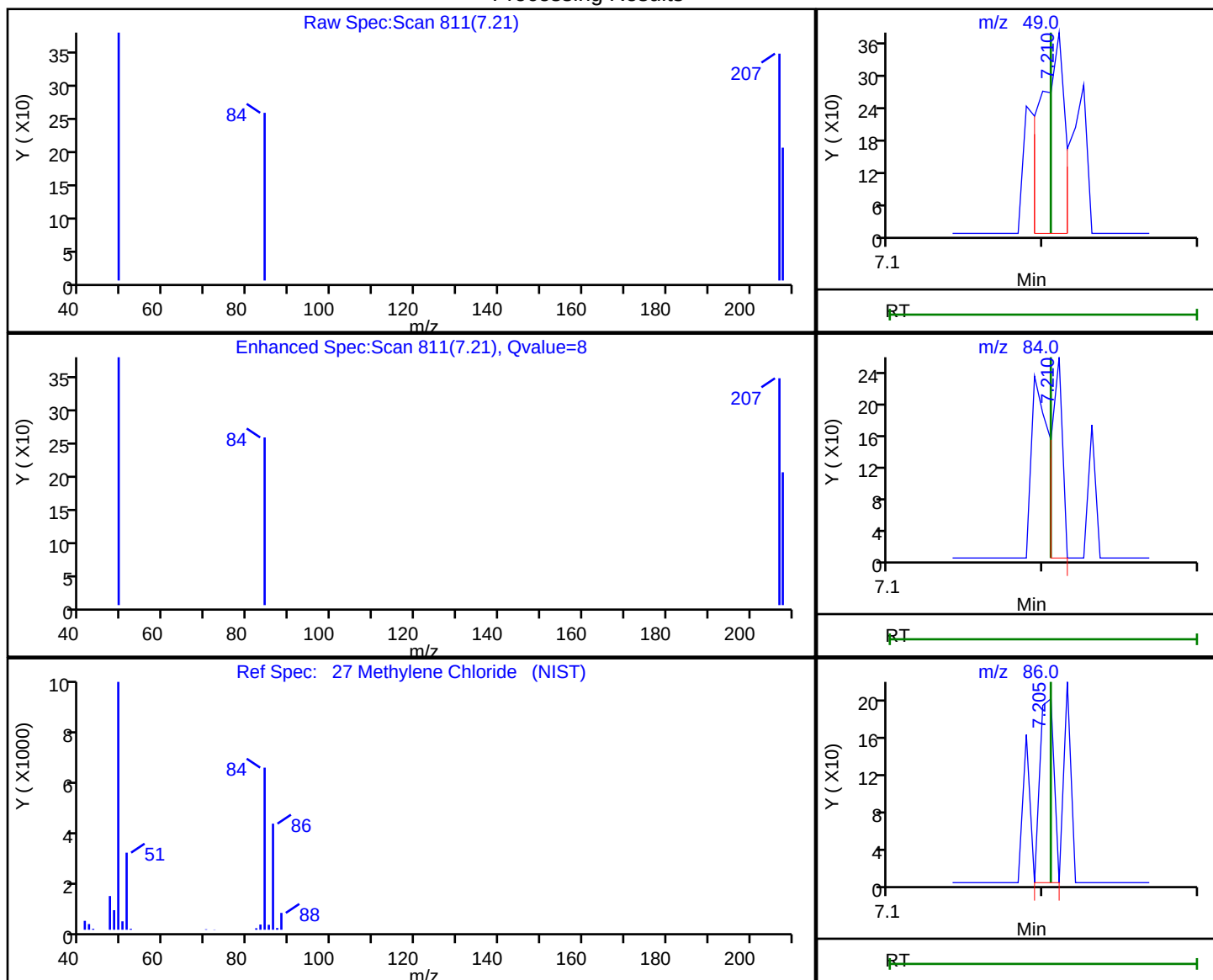
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D
Injection Date: 17-Oct-2019 17:18:30 Instrument ID: CHC.i
Lims ID: 200-51013-A-1 Lab Sample ID: 200-51013-1
Client ID: AS Effluent 4Q19
Operator ID: ggg ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 2.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
7.21	49.00	412	0.026145
7.21	84.00	130	
7.20	86.00	123	

Reviewer: bunmaa, 18-Oct-2019 11:52:00

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

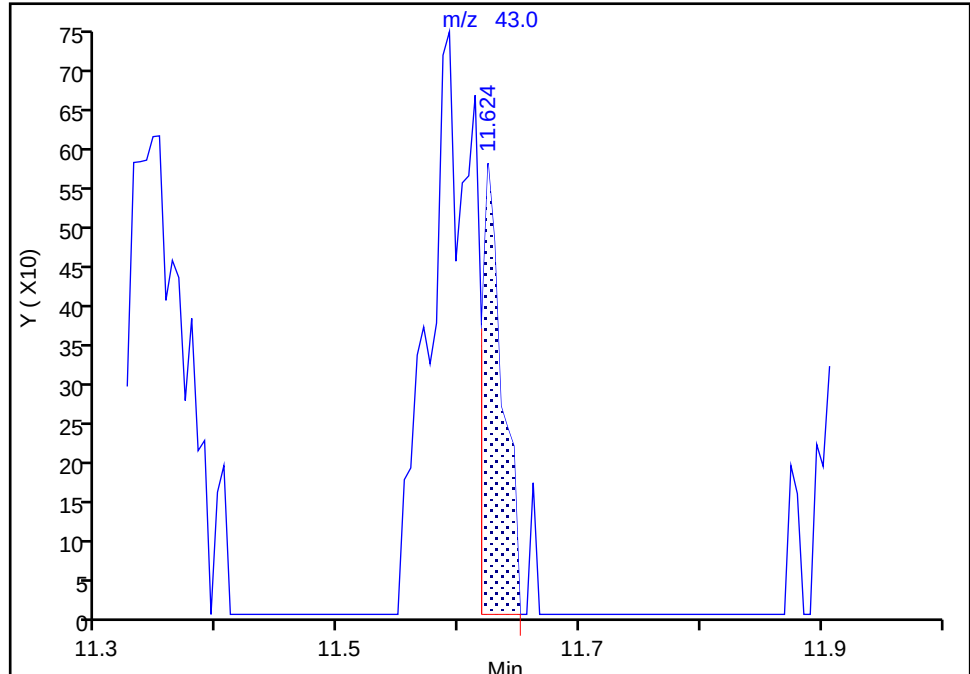
Data File:	\\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D				
Injection Date:	17-Oct-2019 17:18:30	Instrument ID:	CHC.i		
Lims ID:	200-51013-A-1	Lab Sample ID:	200-51013-1		
Client ID:	AS Effluent 4Q19				
Operator ID:	ggg	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector:	MS SCAN		

48 n-Heptane, CAS: 142-82-5

Signal: 1

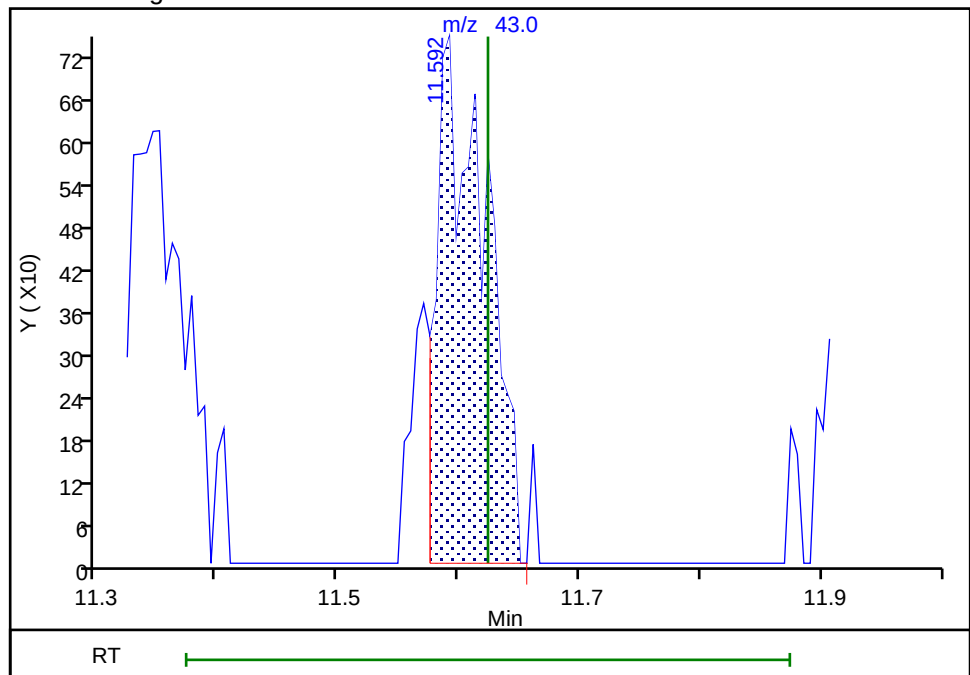
RT: 11.62
Area: 684
Amount: 0.021114
Amount Units: ppb v/v

Processing Integration Results



RT: 11.59
Area: 2085
Amount: 0.064362
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:54:16
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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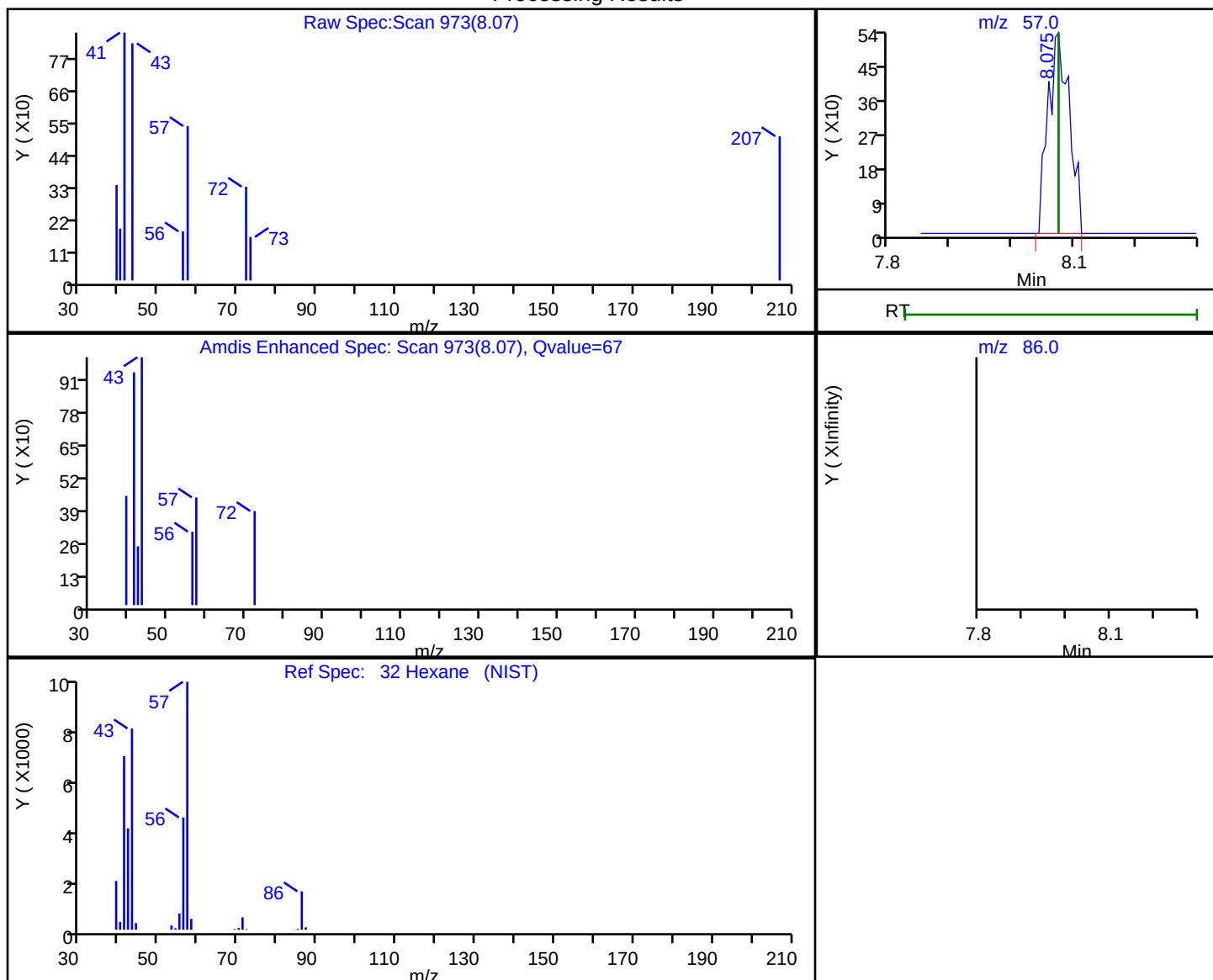
10/18/2019

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D
Injection Date: 17-Oct-2019 17:18:30 Instrument ID: CHC.i
Lims ID: 200-51013-A-1 Lab Sample ID: 200-51013-1
Client ID: AS Effluent 4Q19
Operator ID: ggg ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 2.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

32 Hexane, CAS: 110-54-3

Processing Results



RT	Mass	Response	Amount
8.07	57.00	1275	0.063523
8.07	86.00	0	

Reviewer: bunmaa, 18-Oct-2019 11:52:25

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D

Injection Date: 17-Oct-2019 17:18:30

Instrument ID: CHC.i

Lims ID: 200-51013-A-1

Lab Sample ID: 200-51013-1

Client ID: AS Effluent 4Q19

Operator ID: ggg

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 200.000 mL

Dil. Factor: 2.0000

Method: TO15_MasterMethod_(v1)_CHC.i

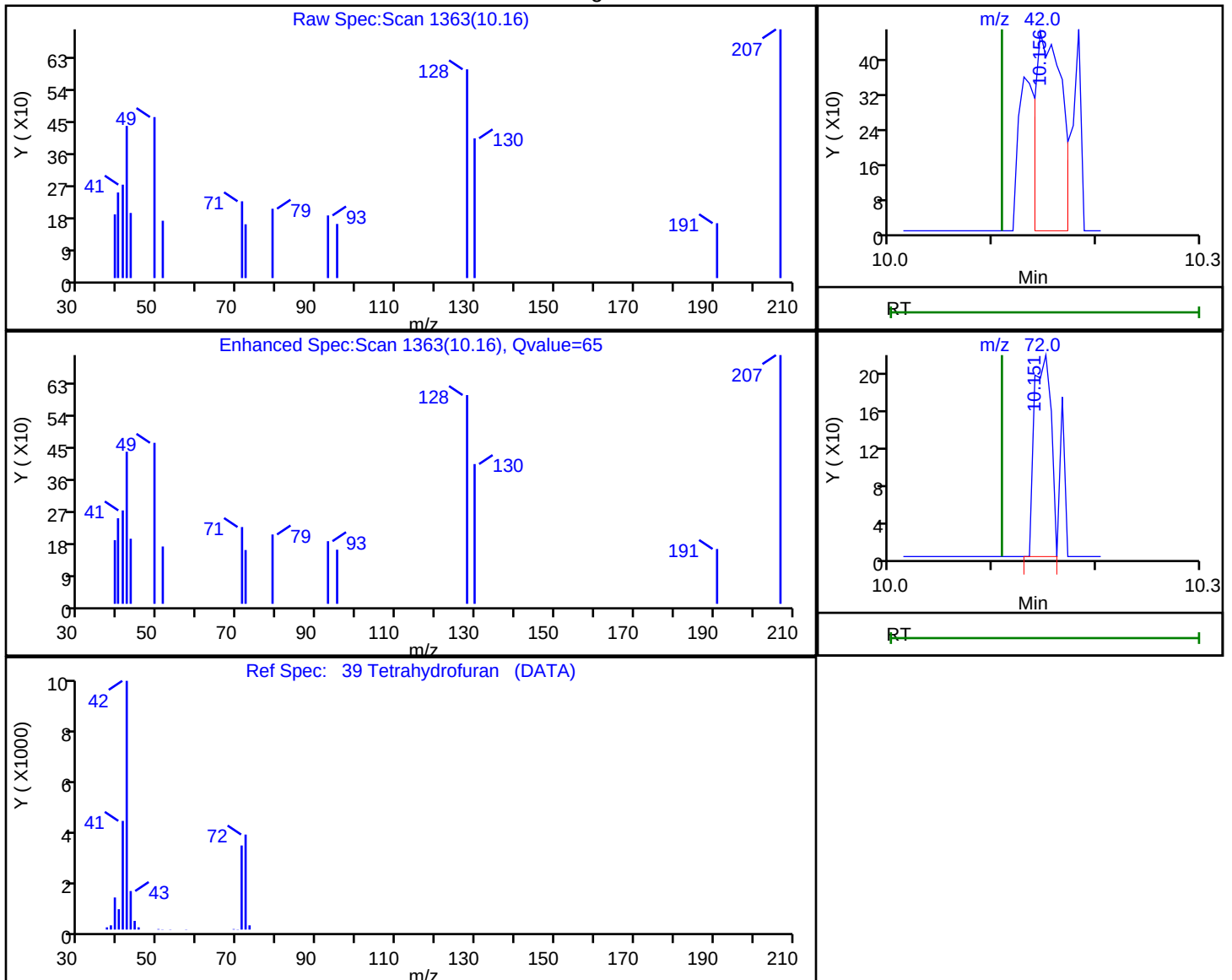
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

39 Tetrahydrofuran, CAS: 109-99-9

Processing Results



RT	Mass	Response	Amount
10.16	42.00	810	0.051428
10.15	72.00	237	

Reviewer: bunmaa, 18-Oct-2019 11:52:52

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

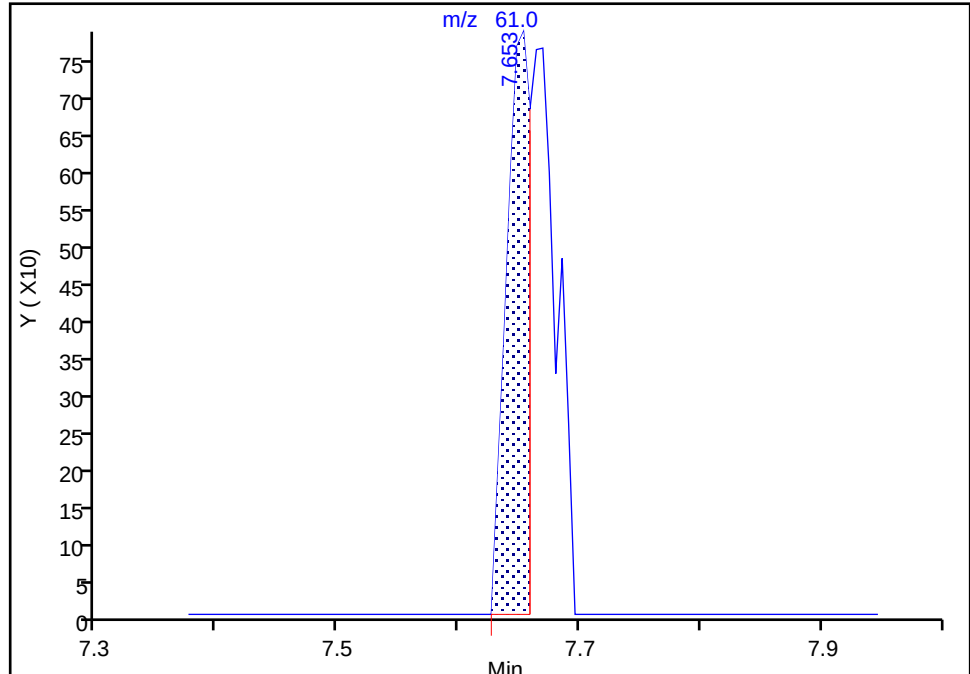
Data File:	\\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D				
Injection Date:	17-Oct-2019 17:18:30	Instrument ID:	CHC.i		
Lims ID:	200-51013-A-1	Lab Sample ID:	200-51013-1		
Client ID:	AS Effluent 4Q19				
Operator ID:	ggg	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector:	MS SCAN		

30 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

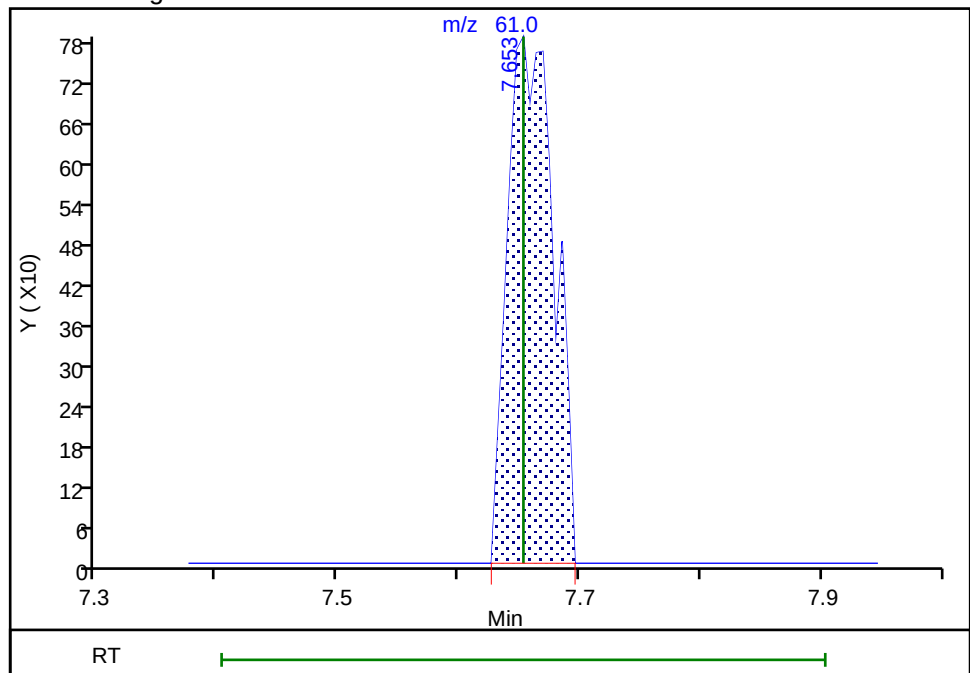
RT: 7.65
Area: 1083
Amount: 0.051943
Amount Units: ppb v/v

Processing Integration Results



RT: 7.65
Area: 2097
Amount: 0.100577
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:52:12

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D

Injection Date: 17-Oct-2019 17:18:30

Instrument ID: CHC.i

Lims ID: 200-51013-A-1

Lab Sample ID: 200-51013-1

Client ID: AS Effluent 4Q19

Operator ID: ggg

ALS Bottle#:

10

Worklist Smp#: 11

Purge Vol: 200.000 mL

Dil. Factor: 2.0000

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

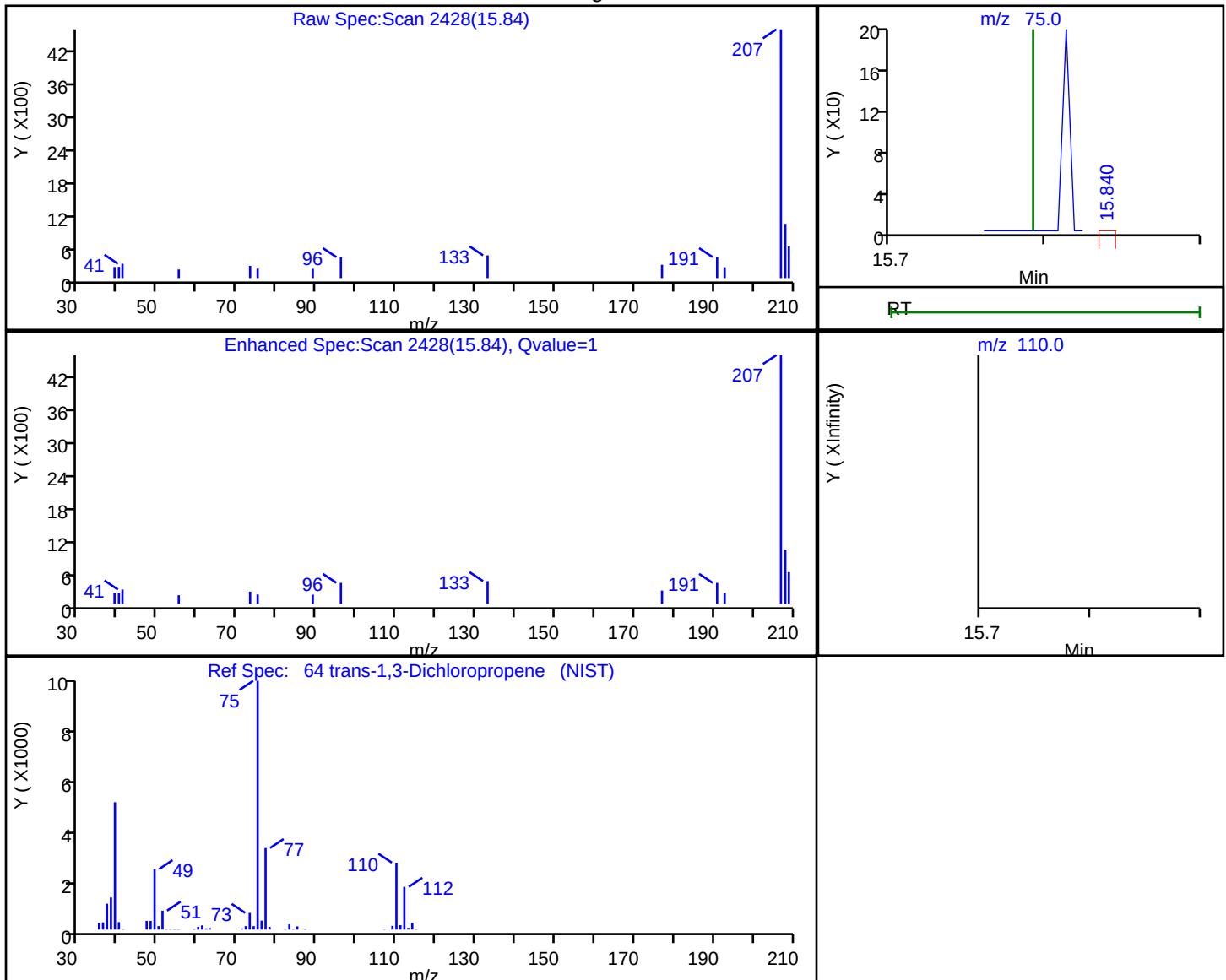
Column: RTX-624 (0.32 mm)

Detector

MS SCAN

64 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



RT	Mass	Response	Amount
15.84	75.00	54	0.001604
15.79	110.00	0	

Reviewer: bunmaa, 18-Oct-2019 11:54:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

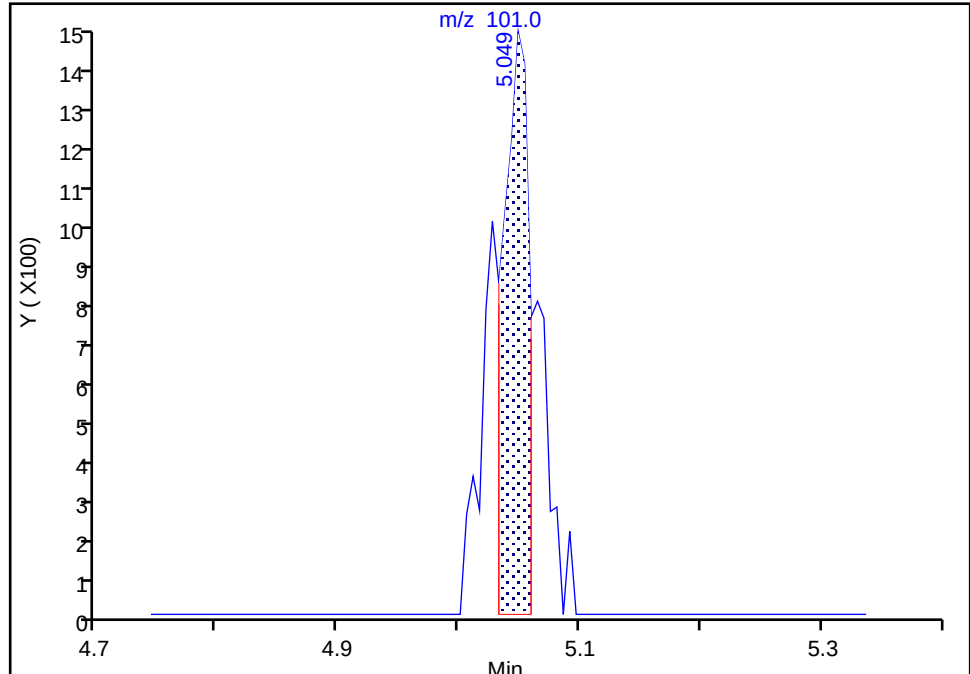
Data File:	\\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D				
Injection Date:	17-Oct-2019 17:18:30	Instrument ID:	CHC.i		
Lims ID:	200-51013-A-1	Lab Sample ID:	200-51013-1		
Client ID:	AS Effluent 4Q19				
Operator ID:	ggg	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

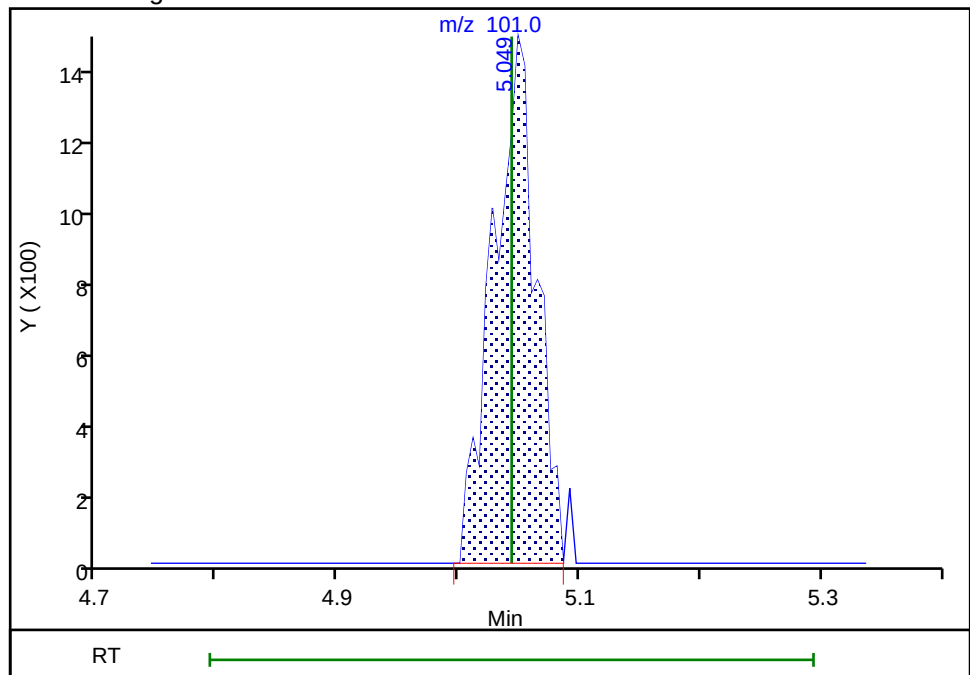
RT: 5.05
Area: 2130
Amount: 0.056677
Amount Units: ppb v/v

Processing Integration Results



RT: 5.05
Area: 3627
Amount: 0.096511
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:51:12

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

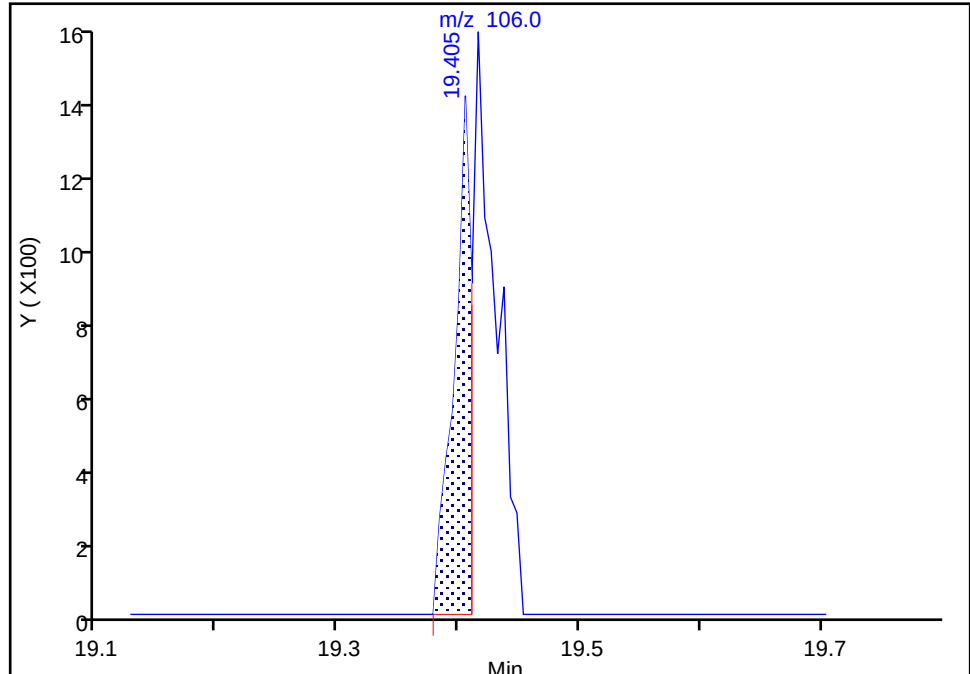
Data File:	\\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-11.D				
Injection Date:	17-Oct-2019 17:18:30	Instrument ID:	CHC.i		
Lims ID:	200-51013-A-1	Lab Sample ID:	200-51013-1		
Client ID:	AS Effluent 4Q19				
Operator ID:	ggg	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	2.0000		
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector:	MS SCAN		

76 o-Xylene, CAS: 95-47-6

Signal: 1

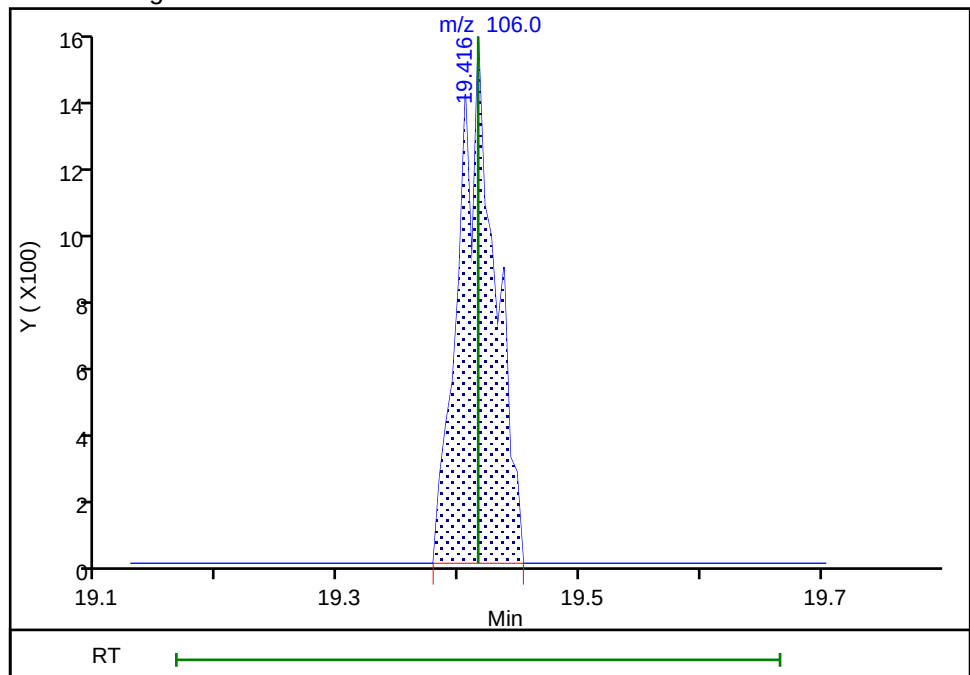
RT: 19.41
Area: 1401
Amount: 0.037802
Amount Units: ppb v/v

Processing Integration Results



RT: 19.42
Area: 3260
Amount: 0.087962
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:55:28
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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10/18/2019

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1 Analy Batch No.: 147607

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/22/2019 15:25 Calibration End Date: 09/23/2019 10:48 Calibration ID: 42406

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-147607/4	37879-04.D
Level 2	IC 200-147607/5	37879-05.D
Level 3	IC 200-147607/6	37879-06.D
Level 4	IC 200-147607/7	37879-07.D
Level 5	ICIS 200-147607/8	37879-08.D
Level 6	IC 200-147607/9	37879-09.D
Level 7	IC 200-147607/20	37879-20.D
Level 8	IC 200-147607/19	37879-19.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	+++++ 0.3034	0.4758 +++++	0.4267 +++++	0.3828	0.3560	Ave		0.3889				17.0		30.0			
Dichlorodifluoromethane	+++++ 1.2636	+++++ 1.1497	1.3825 1.1947	1.3465	1.2843	Ave		1.2702				6.9		30.0			
Freon 22	+++++ 0.6772	+++++ 0.6467	0.8350 0.6614	0.7921	0.7512	Ave		0.7273				10.6		30.0			
1,2-Dichlorotetrafluoroethane	+++++ 1.3705	1.6009 1.3352	1.4531 1.3390	1.3959	1.3434	Ave		1.4054				6.8		30.0			
Chloromethane	+++++ 0.3983	+++++ 0.4115	0.4782 0.4020	0.4599	0.4424	Ave		0.4321				7.7		30.0			
n-Butane	+++++ 0.6151	+++++ 0.6020	0.8256 0.6094	0.7552	0.7111	Ave		0.6864				13.5		30.0			
Vinyl chloride	0.7318 0.4762	0.6144 0.4815	0.5521 0.4822	0.5025	0.4894	Ave		0.5413				16.7		30.0			
1,3-Butadiene	0.5036 0.3212	0.4091 0.3216	0.3807 0.3287	0.3648	0.3427	Ave		0.3716				16.6		30.0			
Bromomethane	+++++ 0.4808	0.6007 0.5133	0.5284 0.4973	0.4844	0.4662	Ave		0.5102				8.8		30.0			
Chloroethane	+++++ 0.2034	+++++ 0.2197	0.2368 0.2156	0.2230	0.2131	Ave		0.2186				5.1		30.0			
Isopentane	+++++ 0.4350	0.6501 0.4394	0.5927 0.4632	0.5205	0.4943	Ave		0.5136				15.8		30.0			
Bromoethene (Vinyl Bromide)	+++++ 0.4453	0.5187 0.4741	0.5126 0.4698	0.4630	0.4488	Ave		0.4760				6.1		30.0			
Trichlorofluoromethane	+++++ 1.2023	1.4345 1.1519	1.3833 1.1916	1.2977	1.2216	Ave		1.2690				8.4		30.0			
n-Pentane	+++++ 0.6852	1.0502 0.7394	0.8382 0.7900	0.8210	0.7781	Ave		0.8146				14.2		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1 Analy Batch No.: 147607

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/22/2019 15:25 Calibration End Date: 09/23/2019 10:48 Calibration ID: 42406

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	++++ 0.1493	++++ 0.1547	0.2175 0.1628	0.2107	0.1828	Ave		0.1796				16.2		30.0			
Ethyl ether	++++ 0.2602	0.3386 0.2818	0.2951 0.2927	0.2938	0.2792	Ave		0.2916				8.2		30.0			
Acrolein	++++ 0.1348	++++ 0.1494	++++ 0.1617	0.1614	0.1488	Ave		0.1512				7.3		30.0			
Freon TF	++++ 1.0607	1.2783 1.0934	1.1563 1.0806	1.1366	1.0757	Ave		1.1259				6.7		30.0			
1,1-Dichloroethene	0.6226 0.4897	0.5766 0.5072	0.5129 0.5042	0.5197	0.4947	Ave		0.5285				8.8		30.0			
Acetone	++++ 0.5741	++++ 0.5833	++++ 0.6414	0.7251	0.6671	Ave		0.6382				9.8		30.0			
Carbon disulfide	++++ 1.3261	++++ 1.4216	1.5272 1.4336	1.4549	1.3857	Ave		1.4248				4.7		30.0			
Isopropyl alcohol	++++ 0.5847	++++ 0.6333	++++ 0.6584	0.7145	0.6867	Ave		0.6555				7.6		30.0			
3-Chloropropene	++++ 0.4795	0.5219 0.5171	0.6504 0.5760	0.6157	0.5792	Ave		0.5628				10.7		30.0			
Acetonitrile	++++ 0.2640	++++ 0.3007	++++ 0.3212	0.3390	0.3190	Ave		0.3088				9.2		30.0			
Methylene Chloride	++++ 0.4696	++++ 0.5033	0.5992 0.5221	0.5703	0.5281	Ave		0.5321				8.7		30.0			
tert-Butyl alcohol	++++ 0.8270	++++ 0.8516	++++ 0.8876	0.9537	0.9095	Ave		0.8859				5.6		30.0			
Methyl tert-butyl ether	++++ 1.2116	1.4450 1.2485	1.3643 1.2988	1.3467	1.2799	Ave		1.3136				6.0		30.0			
trans-1,2-Dichloroethene	++++ 0.6408	0.7530 0.6678	0.7290 0.7117	0.7265	0.6995	Ave		0.7040				5.5		30.0			
Acrylonitrile	++++ 0.2699	++++ 0.3020	0.2923 0.3287	0.3108	0.2978	Ave		0.3002				6.5		30.0			
n-Hexane	++++ 0.5955	0.7254 0.6556	0.7285 0.7011	0.6849	0.6531	Ave		0.6777				6.9		30.0			
1,1-Dichloroethane	1.2478 0.7945	1.0108 0.8389	0.9301 0.8968	0.9203	0.8629	Ave		0.9378				15.0		30.0			
Vinyl acetate	++++ 0.9090	++++ 0.9918	++++ 1.1393	1.0969	1.0417	Ave		1.0357				8.7		30.0			
cis-1,2-Dichloroethene	0.7825 0.5569	0.6443 0.5768	0.5887 0.5742	0.5915	0.5652	Ave		0.6100				12.2		30.0			
Methyl Ethyl Ketone	++++ 0.2289	++++ 0.2466	0.2584 0.2513	0.2542	0.2374	Ave		0.2461				4.5		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1 Analy Batch No.: 147607

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/22/2019 15:25 Calibration End Date: 09/23/2019 10:48 Calibration ID: 42406

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	++++ 0.0421	++++ 0.0434	++++ 0.0433	0.0416	0.0409	Ave		0.0423				2.6		30.0			
Tetrahydrofuran	++++ 0.0972	++++ 0.1079	++++ 0.1202	0.1233	0.1139	Ave		0.1125				9.2		30.0			
Chloroform	++++ 1.1291	1.3647 1.1157	1.2639 1.1688	1.2423	1.1894	Ave		1.2106				7.2		30.0			
Cyclohexane	++++ 0.1448	0.1788 0.1513	0.1480 0.1518	0.1531	0.1490	Ave		0.1538				7.4		30.0			
1,1,1-Trichloroethane	++++ 0.2558	0.3049 0.2426	0.2871 0.2514	0.2759	0.2663	Ave		0.2691				8.1		30.0			
Carbon tetrachloride	0.2795 0.2800	0.2939 0.2629	0.2947 0.2688	0.2968	0.2897	Ave		0.2833				4.5		30.0			
Benzene	++++ 0.3470	0.4281 0.3637	0.3862 0.3670	0.3733	0.3608	Ave		0.3751				7.0		30.0			
2,2,4-Trimethylpentane	++++ 0.5177	0.6410 0.5526	0.6030 0.5746	0.5896	0.5633	Ave		0.5774				6.8		30.0			
1,2-Dichloroethane	++++ 0.1500	0.1678 0.1414	0.1761 0.1521	0.1748	0.1632	Ave		0.1608				8.2		30.0			
n-Heptane	++++ 0.1970	0.2826 0.2082	0.2433 0.2269	0.2380	0.2234	Ave		0.2313				12.0		30.0			
n-Butanol	++++ 0.0653	++++ 0.0729	++++ 0.0734	0.0777	0.0719	Ave		0.0722				6.2		30.0			
Trichloroethene	0.1985 0.1781	0.2034 0.1781	0.1946 0.1784	0.1888	0.1823	Ave		0.1878				5.4		30.0			
1,2-Dichloropropane	++++ 0.1489	0.1685 0.1534	0.1680 0.1592	0.1637	0.1571	Ave		0.1598				4.6		30.0			
Methyl methacrylate	++++ 0.1387	++++ 0.1431	++++ 0.1477	0.1470	0.1426	Ave		0.1445				2.6		30.0			
1,4-Dioxane	++++ 0.0806	++++ 0.0811	++++ 0.0798	0.0868	0.0847	Ave		0.0826				3.7		30.0			
Dibromomethane	++++ 0.2062	0.2281 0.1966	0.2046 0.1971	0.1975	0.1978	Ave		0.2040				5.6		30.0			
Bromodichloromethane	++++ 0.2994	0.3445 0.2884	0.3229 0.3034	0.3201	0.3086	Ave		0.3125				5.9		30.0			
cis-1,3-Dichloropropene	++++ 0.2503	0.2775 0.2493	0.2653 0.2601	0.2628	0.2572	Ave		0.2604				3.7		30.0			
methyl isobutyl ketone	++++ 0.2968	++++ 0.3027	0.3512 0.3263	0.3520	0.3285	Ave		0.3262				7.1		30.0			
Toluene	++++ 0.2984	0.3648 0.3089	0.3259 0.3011	0.3148	0.3017	Ave		0.3165				7.4		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1 Analy Batch No.: 147607

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/22/2019 15:25 Calibration End Date: 09/23/2019 10:48 Calibration ID: 42406

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Octane	++++ 0.3242	0.4337 0.3265	0.4005 0.3548	0.3795	0.3592	Ave		0.3683				10.7		30.0			
trans-1,3-Dichloropropene	++++ 0.2333	0.2575 0.2262	0.2393 0.2408	0.2462	0.2401	Ave		0.2405				4.1		30.0			
1,1,2-Trichloroethane	++++ 0.1554	0.1963 0.1598	0.1729 0.1567	0.1679	0.1579	Ave		0.1667				8.7		30.0			
Tetrachloroethene	0.3859 0.3012	0.3292 0.2974	0.3076 0.2925	0.2992	0.2937	Ave		0.3133				10.1		30.0			
Methyl Butyl Ketone (2-Hexanone)	++++ 0.2832	++++ 0.3039	0.3703 0.3098	0.3520	0.3199	Ave		0.3232				10.0		30.0			
Dibromochloromethane	++++ 0.3693	0.3946 0.3653	0.3644 0.3680	0.3713	0.3748	Ave		0.3725				2.8		30.0			
1,2-Dibromoethane	++++ 0.3078	0.3226 0.3098	0.3258 0.3064	0.3083	0.3071	Ave		0.3125				2.6		30.0			
Chlorobenzene	++++ 0.4416	0.5156 0.4426	0.4727 0.4379	0.4558	0.4449	Ave		0.4587				6.0		30.0			
Ethylbenzene	++++ 0.6727	0.8117 0.6789	0.7265 0.6720	0.7057	0.6881	Ave		0.7079				7.0		30.0			
n-Nonane	++++ 0.3106	0.3597 0.3263	0.3575 0.3310	0.3548	0.3348	Ave		0.3392				5.5		30.0			
m,p-Xylene	++++ 0.2776	0.3089 0.2761	0.2823 0.2797	0.2864	0.2804	Ave		0.2845				4.0		30.0			
Xylene, o-	++++ 0.2692	0.2874 0.2677	0.2697 0.2705	0.2716	0.2721	Ave		0.2726				2.5		30.0			
Styrene	++++ 0.4445	0.4301 0.4404	0.4089 0.4453	0.4460	0.4507	Ave		0.4380				3.3		30.0			
Bromoform	++++ 0.4087	0.3555 0.3831	0.3202 0.4116	0.3866	0.4087	Ave		0.3821				8.8		30.0			
Cumene	++++ 0.8046	0.8557 0.7817	0.7816 0.7849	0.8074	0.8208	Ave		0.8053				3.3		30.0			
1,1,2,2-Tetrachloroethane	++++ 0.4297	0.5035 0.4295	0.4392 0.4333	0.4513	0.4500	Ave		0.4481				5.8		30.0			
n-Propylbenzene	++++ 0.9512	1.0369 0.9316	0.9534 0.9273	0.9850	0.9886	Ave		0.9677				4.0		30.0			
1,2,3-Trichloropropane	++++ 0.3282	++++ 0.3251	0.3578 0.3248	0.3639	0.3500	Ave		0.3416				5.2		30.0			
2-Chlorotoluene	++++ 0.6629	0.6989 0.6429	0.6555 0.6457	0.6976	0.6947	Ave		0.6712				3.7		30.0			
4-Ethyltoluene	++++ 0.8238	0.8449 0.7995	0.7844 0.8063	0.8380	0.8513	Ave		0.8212				3.1		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1 Analy Batch No.: 147607

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/22/2019 15:25 Calibration End Date: 09/23/2019 10:48 Calibration ID: 42406

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Decane	++++ 0.4091	++++ 0.4225	0.4727 0.4158	0.4802	0.4564	Ave		0.4428				7.0		30.0			
1,3,5-Trimethylbenzene	++++ 0.6775	0.6888 0.6452	0.6385 0.6542	0.6990	0.6988	Ave		0.6717				3.8		30.0			
Alpha Methyl Styrene	++++ 0.3859	0.3329 0.3656	0.3258 0.3770	0.3783	0.3919	Ave		0.3654				7.1		30.0			
tert-Butylbenzene	++++ 0.6925	0.6698 0.6467	0.6231 0.6562	0.7115	0.7166	Ave		0.6738				5.2		30.0			
1,2,4-Trimethylbenzene	++++ 0.6991	0.6719 0.6568	0.6115 0.6652	0.7276	0.7295	Ave		0.6803				6.2		30.0			
sec-Butylbenzene	++++ 1.0596	1.0268 0.9863	0.9392 0.9842	1.1049	1.1086	Ave		1.0299				6.3		30.0			
4-Isopropyltoluene	++++ 0.9323	0.8541 0.8666	0.7814 0.8713	0.9540	0.9730	Ave		0.8904				7.5		30.0			
1,3-Dichlorobenzene	++++ 0.5779	0.4872 0.5302	0.4708 0.5471	0.5737	0.5961	Ave		0.5404				8.8		30.0			
1,4-Dichlorobenzene	++++ 0.5771	0.4873 0.5217	0.4584 0.5354	0.5684	0.5890	Ave		0.5339				9.1		30.0			
Benzyl chloride	++++ 0.6467	0.5873 0.6167	0.5763 0.6283	0.7071	0.6935	Ave		0.6365				7.8		30.0			
n-Butylbenzene	++++ 0.8392	0.7869 0.7836	0.7362 0.7761	0.9075	0.9016	Ave		0.8187				8.0		30.0			
n-Undecane	++++ 0.4711	++++ 0.4751	++++ 0.4698	0.5673	0.5317	Ave		0.5030				8.8		30.0			
1,2-Dichlorobenzene	++++ 0.5567	0.4587 0.4987	0.4430 0.5127	0.5538	0.5722	Ave		0.5137				9.8		30.0			
n-Dodecane	++++ 0.4049	++++ 0.4212	++++ 0.3992	0.4284	0.4407	Ave		0.3921				17.2		30.0			
1,2,4-Trichlorobenzene	++++ 0.4564	++++ 0.3980	0.1783 0.4340	0.3487	0.4322	Ave		0.3746				27.6		30.0			
Hexachlorobutadiene	++++ 0.4639	0.3440 0.3930	0.3165 0.4334	0.4053	0.4589	Ave		0.4022				13.9		30.0			
Naphthalene	++++ 0.8444	++++ 0.7682	0.2787 0.8283	0.6083	0.7995	Ave		0.6879				31.6	*	30.0			
1,2,3-Trichlorobenzene	++++ 0.3515	++++ 0.3050	0.0993 0.3436	0.2340	0.3197	Ave		0.2755				34.8	*	30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1 Analy Batch No.: 147607

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/22/2019 15:25 Calibration End Date: 09/23/2019 10:48 Calibration ID: 42406

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-147607/4	37879-04.D
Level 2	IC 200-147607/5	37879-05.D
Level 3	IC 200-147607/6	37879-06.D
Level 4	IC 200-147607/7	37879-07.D
Level 5	ICIS 200-147607/8	37879-08.D
Level 6	IC 200-147607/9	37879-09.D
Level 7	IC 200-147607/20	37879-20.D
Level 8	IC 200-147607/19	37879-19.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 241349	4786 +++++	9925 +++++	84697	166166	+++++ 15.0	0.200 +++++	0.500 +++++	4.99	10.00
Dichlorodifluoromethane	BCM	Ave	+++++ 1005009	+++++ 1613258	32158 2846008	297932	599408	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Freon 22	BCM	Ave	+++++ 538625	+++++ 907497	19424 1575706	175257	350608	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	+++++ 1090081	16103 1873619	33802 3189872	308854	626969	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	+++++ 316819	+++++ 577485	11123 957745	101755	206498	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Butane	BCM	Ave	+++++ 489234	+++++ 844696	19205 1451709	167090	331899	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	1414 378776	6180 675664	12843 1148701	111178	228432	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	973 255497	4115 451330	8855 783105	80722	159947	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	+++++ 382440	6042 720352	12292 1184790	107175	217579	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	+++++ 161797	+++++ 308357	5508 513650	49348	99437	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Isopentane	BCM	Ave	+++++ 345947	6539 616544	13786 1103498	115155	230722	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoethene (Vinyl Bromide)	BCM	Ave	+++++ 354202	5218 665263	11923 1119210	102439	209458	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	+++++ 956281	14430 1616353	32177 2838793	287127	570165	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Pentane	BCM	Ave	+++++ 544956	10564 1037578	19498 1882010	181643	363170	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethanol	BCM	Ave	+++++ 158636	+++++ 434272	50659 969662	93320	128060	+++++ 20.0	+++++ 40.0	5.01 100.0	9.99	15.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1 Analy Batch No.: 147607

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/22/2019 15:25 Calibration End Date: 09/23/2019 10:48 Calibration ID: 42406

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethyl ether	BCM	Ave	++++ 206962	3406 395409	6865 697192	65015	130294	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrolein	BCM	Ave	++++ 107230	++++ 209714	++++ 385223	35721	69442	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Freon TF	BCM	Ave	++++ 843626	12858 1534361	26898 2574188	251472	502053	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethene	BCM	Ave	1203 389516	5800 711740	11930 1201242	114982	230879	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetone	BCM	Ave	++++ 456614	++++ 818578	++++ 1528117	160430	311342	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Carbon disulfide	BCM	Ave	++++ 1054727	++++ 1994875	++++ 35524 3415277	321905	646744	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Isopropyl alcohol	BCM	Ave	++++ 465025	++++ 888720	++++ 1568605	158079	320511	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
3-Chloropropene	BCM	Ave	++++ 381399	5250 725622	15130 1372199	136229	270310	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetonitrile	BCM	Ave	++++ 209994	++++ 421972	++++ 765195	74999	148862	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Methylene Chloride	BCM	Ave	++++ 373544	++++ 706185	13939 1243734	126187	246477	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
tert-Butyl alcohol	BCM	Ave	++++ 657808	++++ 1195027	++++ 2114443	211008	424487	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Methyl tert-butyl ether	BCM	Ave	++++ 963667	14535 1751966	31736 3094229	297964	597370	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,2-Dichloroethene	BCM	Ave	++++ 509652	7574 937029	16957 1695390	160750	326484	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrylonitrile	BCM	Ave	++++ 214642	++++ 423792	6800 783059	68768	138975	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Hexane	BCM	Ave	++++ 473653	7297 920023	16947 1670307	151544	304801	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethane	BCM	Ave	2411 631952	10168 1177202	21635 2136543	203618	402722	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Vinyl acetate	BCM	Ave	++++ 722997	++++ 1391745	++++ 2714234	242698	486163	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
cis-1,2-Dichloroethene	BCM	Ave	1512 442911	6481 809354	13693 1367804	130865	263778	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Ethyl Ketone	BCM	Ave	++++ 182053	++++ 346034	6011 598616	56252	110799	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Ethyl acetate	BCM	Ave	++++ 33523	++++ 60915	++++ 103158	9201	19092	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Tetrahydrofuran	DFBZ	Ave	++++ 365212	++++ 712040	++++ 1369183	128111	250342	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1 Analy Batch No.: 147607

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/22/2019 15:25 Calibration End Date: 09/23/2019 10:48 Calibration ID: 42406

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	+++++ 898057	13727 1565616	29401 2784509	274879	555103	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFBZ	Ave	+++++ 543919	8438 998655	16172 1729336	159095	327513	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFBZ	Ave	+++++ 961309	14388 1601121	31370 2864108	286678	585444	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFBZ	Ave	2569 1052161	13866 1735103	32205 3062467	308399	636882	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFBZ	Ave	+++++ 1303806	20200 2400150	42201 4181336	387874	793194	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFBZ	Ave	+++++ 1945161	30244 3646886	65889 6547231	612662	1238391	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFBZ	Ave	+++++ 563572	7917 933192	19244 1733514	181650	358743	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFBZ	Ave	+++++ 740332	13334 1373934	26591 2585835	247279	491107	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butanol	DFBZ	Ave	+++++ 245416	+++++ 480973	+++++ 836458	80715	158122	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Trichloroethene	DFBZ	Ave	1825 669376	9595 1175737	21266 2032313	196215	400915	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFBZ	Ave	+++++ 559652	7950 1012719	18353 1813876	170112	345369	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFBZ	Ave	+++++ 521166	+++++ 944609	16172 1683498	152768	313433	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFBZ	Ave	+++++ 302730	+++++ 535455	+++++ 909260	90225	186231	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Dibromomethane	DFBZ	Ave	+++++ 774658	10764 1297324	22363 2246146	205227	434901	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromodichloromethane	DFBZ	Ave	+++++ 1124901	16255 1903709	35285 3456757	332617	678466	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
cis-1,3-Dichloropropene	DFBZ	Ave	+++++ 940630	13093 1645048	28991 2963804	273100	565388	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
methyl isobutyl ketone	DFBZ	Ave	+++++ 1115088	+++++ 1998093	38376 3717523	365791	722296	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Toluene	CBNZ d5	Ave	+++++ 1116870	16002 1945872	33063 3475122	309494	650914	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Octane	DFBZ	Ave	+++++ 1218082	20465 2154805	43760 4042559	394377	789818	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,3-Dichloropropene	DFBZ	Ave	+++++ 876709	12150 1492933	26154 2743869	255793	527939	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 581508	8612 1006536	17540 1808370	165084	340611	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1 Analy Batch No.: 147607

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/22/2019 15:25 Calibration End Date: 09/23/2019 10:48 Calibration ID: 42406

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBNZ d5	Ave	3298 1127144	14442 1872932	31204 3375859	294144	633833	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Butyl Ketone (2-Hexanone)	CBNZ d5	Ave	++++ 1059722	++++ 1913933	37568 3574897	346090	690364	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBNZ d5	Ave	++++ 1382042	17308 2300917	36964 4246946	365026	808699	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dibromoethane	CBNZ d5	Ave	++++ 1151964	14150 1951517	33047 3536652	303065	662630	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chlorobenzene	CBNZ d5	Ave	++++ 1652719	22616 2787406	47950 5053279	448130	960042	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylbenzene	CBNZ d5	Ave	++++ 2517413	35607 4275973	37701 7754991	693829	1484863	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Nonane	CBNZ d5	Ave	++++ 1162232	15779 2054895	36270 3819694	348855	722333	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
m,p-Xylene	CBNZ d5	Ave	++++ 2077654	27103 3478636	57279 6455771	563171	1209924	++++ 30.0	0.401 40.0	1.00 80.0	9.99	20.0
Xylene, o-	CBNZ d5	Ave	++++ 1007476	12609 1686418	27359 3122328	267001	587143	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Styrene	CBNZ d5	Ave	++++ 1663629	18869 2773575	41482 5139209	438437	972503	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoform	CBNZ d5	Ave	++++ 1529523	15595 2412921	32487 4750520	380056	881918	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cumene	CBNZ d5	Ave	++++ 3011064	37536 4923807	79293 9058129	793772	1771205	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	++++ 1608063	22086 2705032	44549 5000390	443730	970904	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Propylbenzene	CBNZ d5	Ave	++++ 3559645	45487 5867427	96715 10701350	968444	2133184	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichloropropane	CBNZ d5	Ave	++++ 1228117	++++ 2047819	36301 3748314	357782	755316	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
2-Chlorotoluene	CBNZ d5	Ave	++++ 2480849	30657 4049266	66496 7452309	685849	1498993	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Ethyltoluene	CBNZ d5	Ave	++++ 3082800	37062 5035810	79569 9304891	823878	1836931	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Decane	CBNZ d5	Ave	++++ 1531060	++++ 2661333	47957 4798992	472092	984844	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,3,5-Trimethylbenzene	CBNZ d5	Ave	++++ 2535419	30216 4063524	64769 7550323	687208	1507767	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Alpha Methyl Styrene	CBNZ d5	Ave	++++ 1444323	14603 2302839	33047 4351285	371969	845614	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
tert-Butylbenzene	CBNZ d5	Ave	++++ 2591666	29382 4073112	63213 7572857	699520	1546367	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1 Analy Batch No.: 147607

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/22/2019 15:25 Calibration End Date: 09/23/2019 10:48 Calibration ID: 42406

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBNZ d5	Ave	++++ 2616316	29476 4137155	62035 7677209	715334	1574136	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
sec-Butylbenzene	CBNZ d5	Ave	++++ 3965263	45041 6212088	95271 11358545	1086227	2392199	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Isopropyltoluene	CBNZ d5	Ave	++++ 3488886	37465 5458528	79271 10055648	937883	2099582	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBNZ d5	Ave	++++ 2162780	21373 3339718	47759 6313654	563983	1286282	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,4-Dichlorobenzene	CBNZ d5	Ave	++++ 2159745	21375 3286159	46500 6178896	558791	1270940	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzyl chloride	CBNZ d5	Ave	++++ 2420032	25762 3884075	58463 7250558	695180	1496441	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butylbenzene	CBNZ d5	Ave	++++ 3140342	34519 4935654	74681 8956558	892230	1945434	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Undecane	CBNZ d5	Ave	++++ 1762972	++++ 2992687	++++ 5421729	557714	1147309	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
1,2-Dichlorobenzene	CBNZ d5	Ave	++++ 2083418	20120 3141033	44937 5916707	544461	1234603	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Dodecane	CBNZ d5	Ave	++++ 1515301	++++ 2652782	26199 4607229	421215	951047	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2,4-Trichlorobenzene	CBNZ d5	Ave	++++ 1708109	++++ 2506571	18085 5008700	342851	932622	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Hexachlorobutadiene	CBNZ d5	Ave	++++ 1735965	15090 2475302	32111 5002169	398481	990289	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Naphthalene	CBNZ d5	Ave	++++ 3159810	++++ 4838795	28269 9559715	598086	1725135	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichlorobenzene	CBNZ d5	Ave	++++ 1315535	++++ 1920963	10071 3965832	230039	689868	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00

Curve Type Legend:

Ave = Average ISTD

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D

Lims ID: ic

Client ID:

Sample Type: IC

Calib Level: 1

Inject. Date: 22-Sep-2019 15:25:30

ALS Bottle#: 4

Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Sample Info: 200-0037879-004

Misc. Info.: ic-01

Operator ID: vtp

Instrument ID: CHC.i

Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1

Method: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\TO15_MasterMethod_(v1)_CHC.i.m

Limit Group: AI_TO15_ICAL

Last Update: 24-Sep-2019 09:18:13

Calib Date: 23-Sep-2019 10:48:30

Integrator: RTE

ID Type: Deconvolution ID

Quant Method: Internal Standard

Quant By: Initial Calibration

Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D

Column 1 : RTX-624 (0.32 mm)

Det: MS SCAN

Process Host: CTX0311

First Level Reviewer: desjardinsb

Date: 23-Sep-2019 09:15:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	2.930	2.930	0.000	83	1249	0.0351	0.0583	
2 Dichlorodifluoromethane	85	2.994	2.994	0.000	98	3365	0.0351	0.0481	
3 Chlorodifluoromethane	51	3.042	3.042	0.000	96	1978	0.0351	0.0494	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.250	3.250	0.000	87	3483	0.0351	0.0450	
5 Chloromethane	50	3.373	3.373	0.000	1	1230	0.0351	0.0517	
6 Butane	43	3.565	3.565	0.000	91	2380	0.0351	0.0629	
7 Vinyl chloride	62	3.597	3.597	0.000	94	1414	0.0351	0.0474	
8 Butadiene	54	3.677	3.677	0.000	0	973	0.0351	0.0475	
9 Bromomethane	94	4.323	4.323	0.000	1	1599	0.0351	0.0569	
10 Chloroethane	64	4.552	4.552	0.000	1	533	0.0351	0.0443	
11 2-Methylbutane	43	4.648	4.648	0.000	16	2000	0.0351	0.0707	
13 Vinyl bromide	106	4.931	4.931	0.000	1	1222	0.0351	0.0466	
14 Trichlorofluoromethane	101	5.054	5.054	0.000	1	2829	0.0351	0.0405	
15 Pentane	43	5.193	5.193	0.000	1	3065	0.0351	0.0683	
16 Ethanol	45		5.609				ND	ND	U
17 Ethyl ether	59		5.700				ND	ND	U
18 Acrolein	56		6.047				ND	ND	U
19 1,1,2-Trichloro-1,2,2-trif	101	6.121	6.121	0.000	50	2854	0.0351	0.0460	
20 1,1-Dichloroethene	96	6.148	6.148	0.000	1	1203	0.0351	0.0413	
21 Acetone	43	6.378	6.378	0.000	95	10966	0.0351	0.3119	
22 Carbon disulfide	76	6.527	6.527	0.000	15	3420	0.0351	0.0436	
23 Isopropyl alcohol	45	6.719	6.719	0.000	92	2405	0.0351	0.0666	
24 3-Chloro-1-propene	41		6.922				ND	ND	U
25 Acetonitrile	41		7.007				ND	ND	U
27 Methylene Chloride	49	7.221	7.221	0.000	21	1553	0.0351	0.0530	
28 2-Methyl-2-propanol	59		7.456				ND	ND	U
29 Methyl tert-butyl ether	73	7.669	7.669	0.000	1	3211	0.0351	0.0444	
30 trans-1,2-Dichloroethene	61	7.675	7.675	0.000	1	1966	0.0351	0.0507	
31 Acrylonitrile	53		7.781				ND	ND	U
32 Hexane	57	8.085	8.085	0.000	56	1663	0.0351	0.0445	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63	8.539	8.539	0.000	85	2411	0.0351	0.0467	
34 Vinyl acetate	43		8.619				ND	ND	U
35 cis-1,2-Dichloroethene	96	9.644	9.644	0.000	31	1512	0.0351	0.0450	M
36 2-Butanone (MEK)	72	9.697	9.697	0.000	98	953	0.0351	0.0703	
37 Ethyl acetate	88		9.750				ND	ND	
* 38 Chlorobromomethane	128	10.092	10.092	0.000	80	550832	10.0	10.0	
39 Tetrahydrofuran	42		10.108				ND	ND	U
S 40 1,2-Dichloroethene, Total	61				0		0.0702	0.0957	
41 Chloroform	83		10.241				ND	ND	
42 Cyclohexane	84		10.508				ND	ND	U
43 1,1,1-Trichloroethane	97	10.514	10.514	0.000	45	2535	0.0351	0.0359	
44 Carbon tetrachloride	117	10.770	10.770	0.000	1	2569	0.0351	0.0346	
45 Benzene	78	11.224	11.224	0.000	92	4775	0.0351	0.0486	
46 Isooctane	57		11.234				ND	ND	
47 1,2-Dichloroethane	62		11.389				ND	ND	
48 n-Heptane	43		11.645				ND	ND	U
* 49 1,4-Difluorobenzene	114	12.077	12.077	0.000	93	2620537	10.0	10.0	
50 n-Butanol	56		12.494				ND	ND	U
51 Trichloroethene	95	12.558	12.558	0.000	91	1825	0.0351	0.0371	
53 1,2-Dichloropropane	63	13.086	13.086	0.000	1	1778	0.0351	0.0425	
55 Methyl methacrylate	69		13.289				ND	ND	
56 1,4-Dioxane	88	13.374	13.374	0.000	38	1391	0.0351	0.0643	
57 Dibromomethane	174		13.342				ND	ND	U
58 Dichlorobromomethane	83		13.662				ND	ND	U
60 cis-1,3-Dichloropropene	75	14.607	14.607	0.000	1	2192	0.0351	0.0321	
61 4-Methyl-2-pentanone (MIBK)	43	14.927	14.927	0.000	30	5426	0.0351	0.0635	
62 Toluene	92	15.210	15.210	0.000	91	2816	0.0351	0.0365	
63 n-Octane	43	15.328	15.328	0.000	27	4300	0.0351	0.0445	
64 trans-1,3-Dichloropropene	75		15.819				ND	ND	U
65 1,1,2-Trichloroethane	83		16.187				ND	ND	
66 Tetrachloroethene	166	16.326	16.326	0.000	94	3298	0.0351	0.0432	
67 2-Hexanone	43	16.662	16.662	0.000	96	6282	0.0351	0.0798	
68 Chlorodibromomethane	129	16.945	16.945	0.000	94	3435	0.0351	0.0378	
69 Ethylene Dibromide	107	17.206	17.206	0.000	1	2692	0.0351	0.0354	
* 70 Chlorobenzene-d5	117	18.124	18.124	0.000	85	2436217	10.0	10.0	
71 Chlorobenzene	112	18.178	18.178	0.000	82	4881	0.0351	0.0437	
72 Ethylbenzene	91	18.348	18.348	0.000	96	7220	0.0351	0.0419	
73 n-Nonane	57	18.535	18.535	0.000	91	3731	0.0351	0.0451	
74 m-Xylene & p-Xylene	106	18.599	18.599	0.000	0	5729	0.0702	0.0827	
76 o-Xylene	106	19.442	19.442	0.000	68	2974	0.0351	0.0448	
77 Styrene	104	19.501	19.501	0.000	91	2899	0.0351	0.0272	
78 Bromoform	173	19.928	19.928	0.000	46	3288	0.0351	0.0353	
S 79 Xylenes, Total	106				0		0.1052	0.1274	
80 Isopropylbenzene	105	20.163	20.163	0.000	95	7846	0.0351	0.0400	
81 1,1,2,2-Tetrachloroethane	83	20.846	20.846	0.000	95	4708	0.0351	0.0431	
82 N-Propylbenzene	91	20.921	20.921	0.000	97	9819	0.0351	0.0416	
83 1,2,3-Trichloropropane	75	20.926	20.926	0.000	67	4301	0.0351	0.0517	
85 2-Chlorotoluene	91	21.118	21.118	0.000	91	6964	0.0351	0.0426	
84 4-Ethyltoluene	105	21.124	21.124	0.000	87	7115	0.0351	0.0356	
86 n-Decane	57	21.150	21.150	0.000	81	4821	0.0351	0.0447	
87 1,3,5-Trimethylbenzene	105	21.236	21.236	0.000	93	6274	0.0351	0.0383	
88 Alpha Methyl Styrene	118	21.620	21.620	0.000	86	2904	0.0351	0.0326	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
89 tert-Butylbenzene	119	21.743	21.743	0.000	93	6321	0.0351	0.0385	
90 1,2,4-Trimethylbenzene	105	21.833	21.833	0.000	96	5931	0.0351	0.0358	
91 sec-Butylbenzene	105	22.079	22.079	0.000	99	9755	0.0351	0.0389	
92 4-Isopropyltoluene	119	22.282	22.282	0.000	97	8096	0.0351	0.0373	
93 1,3-Dichlorobenzene	146	22.308	22.308	0.000	95	4475	0.0351	0.0340	
94 1,4-Dichlorobenzene	146	22.447	22.447	0.000	93	4471	0.0351	0.0344	
95 Benzyl chloride	91	22.634	22.634	0.000	98	5151	0.0351	0.0332	
96 n-Butylbenzene	91	22.863	22.863	0.000	95	6788	0.0351	0.0340	
97 Undecane	57	22.906	22.906	0.000	96	4544	0.0351	0.0371	
98 1,2-Dichlorobenzene	146	22.970	22.970	0.000	95	4426	0.0351	0.0354	
99 Dodecane	57	24.438	24.438	0.000	1	1138	0.0351	0.0119	
100 1,2,4-Trichlorobenzene	180	25.382	25.382	0.000	1	320	0.0351	0.003506	
101 Hexachlorobutadiene	225	25.553	25.553	0.000	94	2727	0.0351	0.0278	
102 Naphthalene	128	25.809	25.809	0.000	1	134	0.0351	0.000800	
103 1,2,3-Trichlorobenzene	180		26.258				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

ATTO15CAL1w_00207

Amount Added: 35.00

Units: mL

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

Report Date: 24-Sep-2019 09:18:15

Chrom Revision: 2.3 17-Sep-2019 16:19:08

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D

Injection Date: 22-Sep-2019 15:25:30

Instrument ID: CHC.i

Operator ID: vtp

Lims ID: ic

Worklist Smp#: 4

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

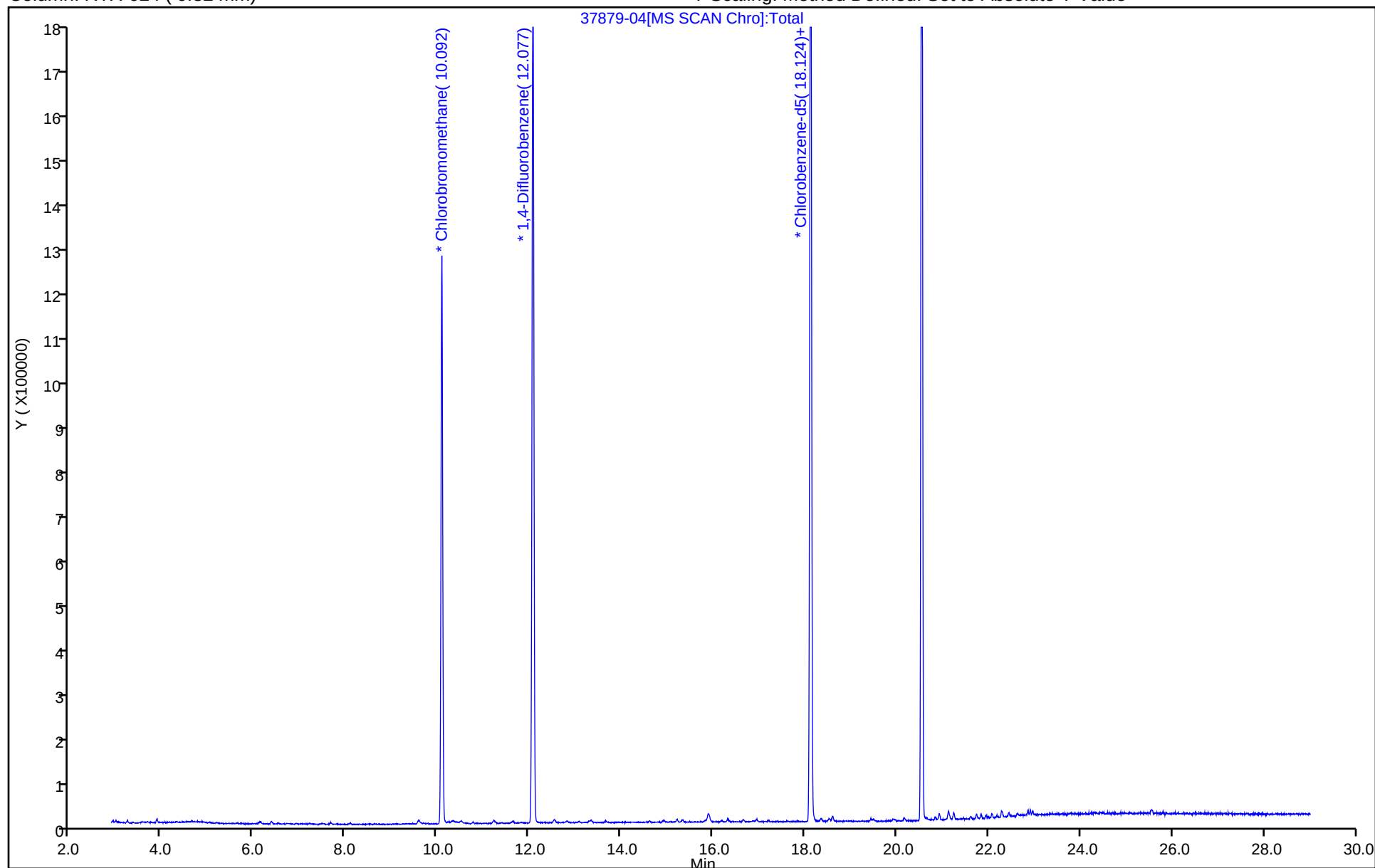
ALS Bottle#: 4

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Burlington

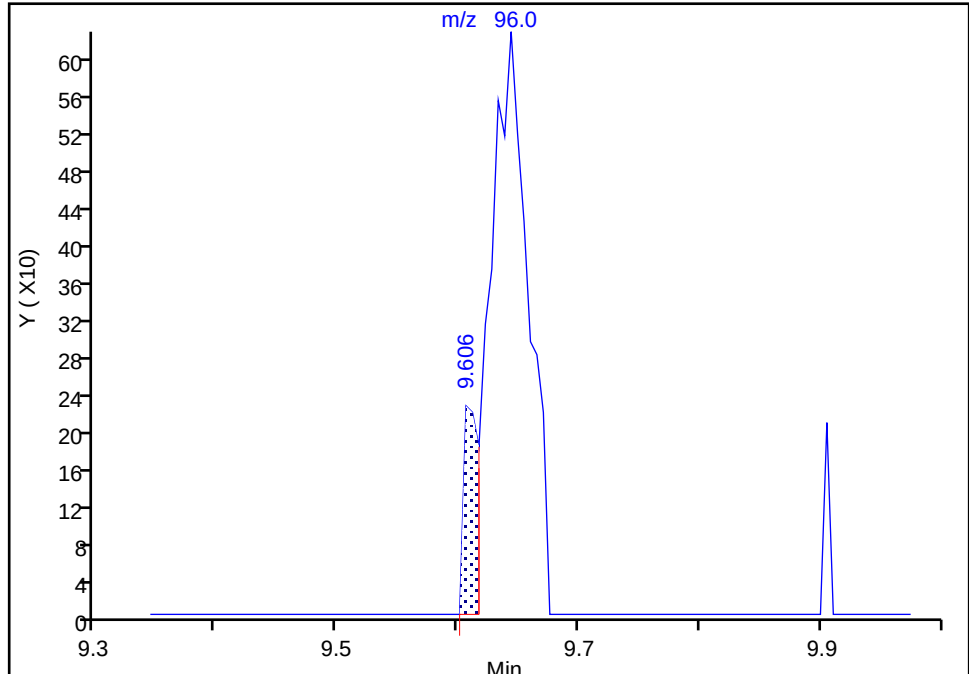
Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D
Injection Date: 22-Sep-2019 15:25:30 Instrument ID: CHC.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

35 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

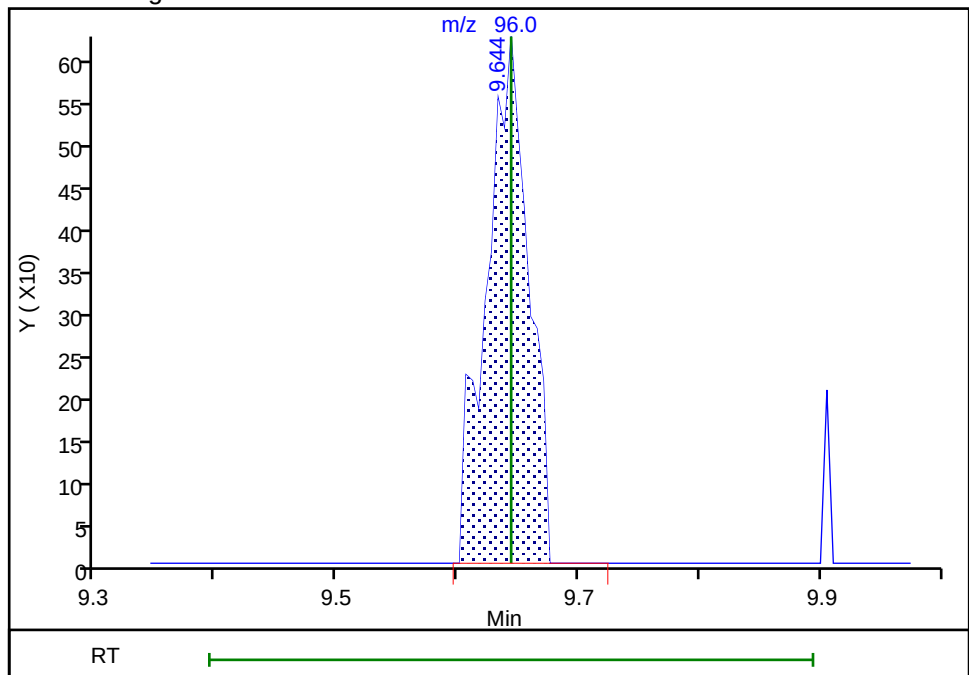
RT: 9.61
Area: 199
Amount: 0.010814
Amount Units: ppb v/v

Processing Integration Results



RT: 9.64
Area: 1512
Amount: 0.045000
Amount Units: ppb v/v

Manual Integration Results



Reviewer: desjardinsb, 23-Sep-2019 09:13:21
Audit Action: Manually Integrated

Audit Reason: Baseline
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10/18/2019

Eurofins TestAmerica, Burlington

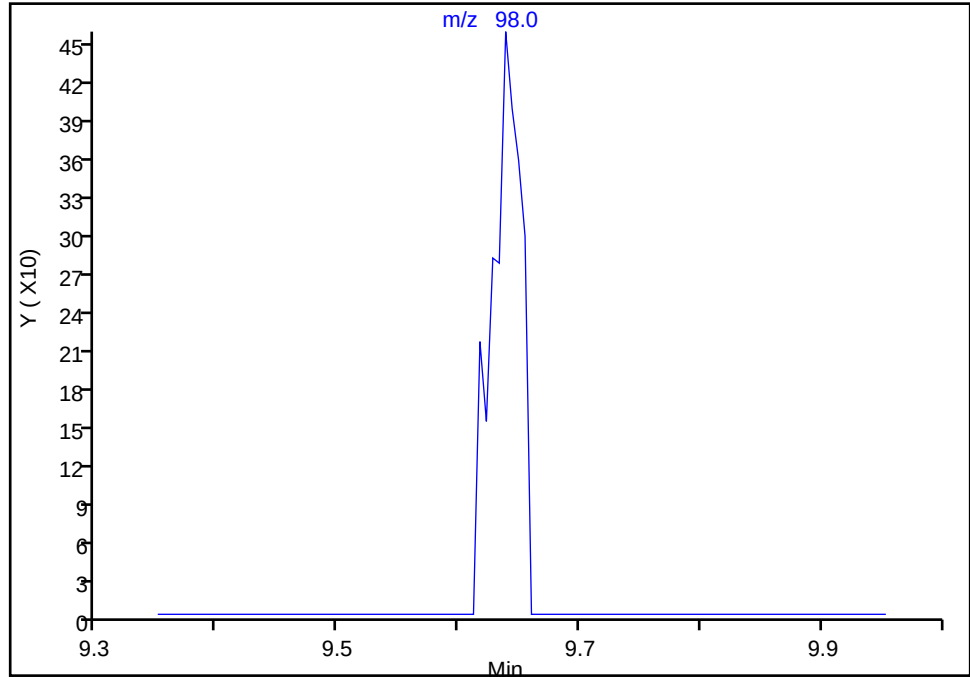
Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D
Injection Date: 22-Sep-2019 15:25:30 Instrument ID: CHC.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

35 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 2

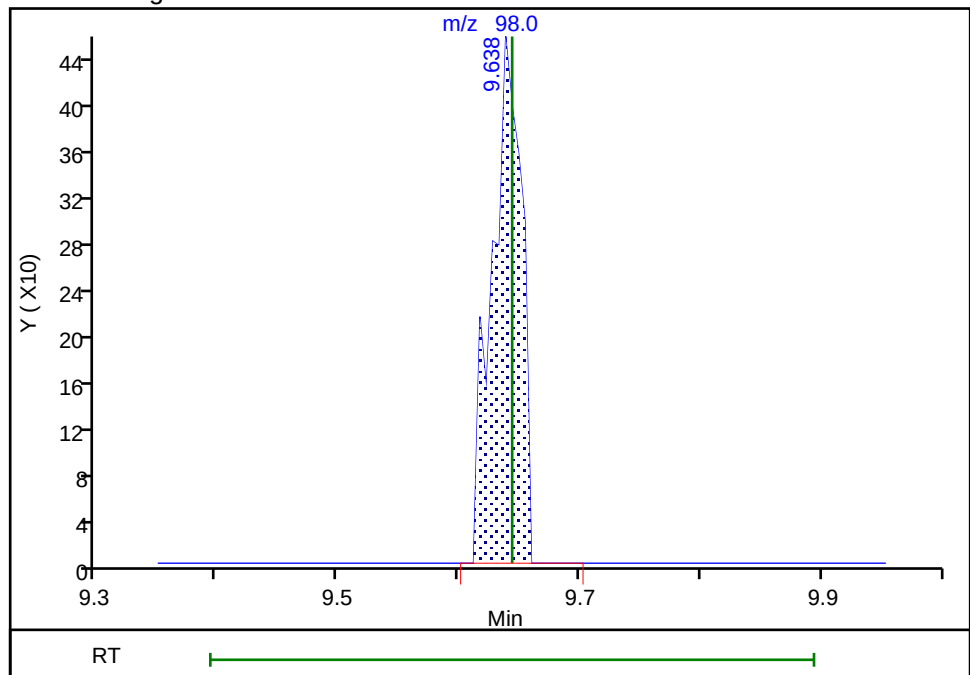
RT: 9.67
Area: 0
Amount: 0.010814
Amount Units: ppb v/v

Processing Integration Results



RT: 9.64
Area: 770
Amount: 0.045000
Amount Units: ppb v/v

Manual Integration Results



Reviewer: desjardinsb, 23-Sep-2019 09:13:28

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D

Injection Date: 22-Sep-2019 15:25:30

Instrument ID: CHC.i

Lims ID: ic

Client ID:

Operator ID: vtp

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

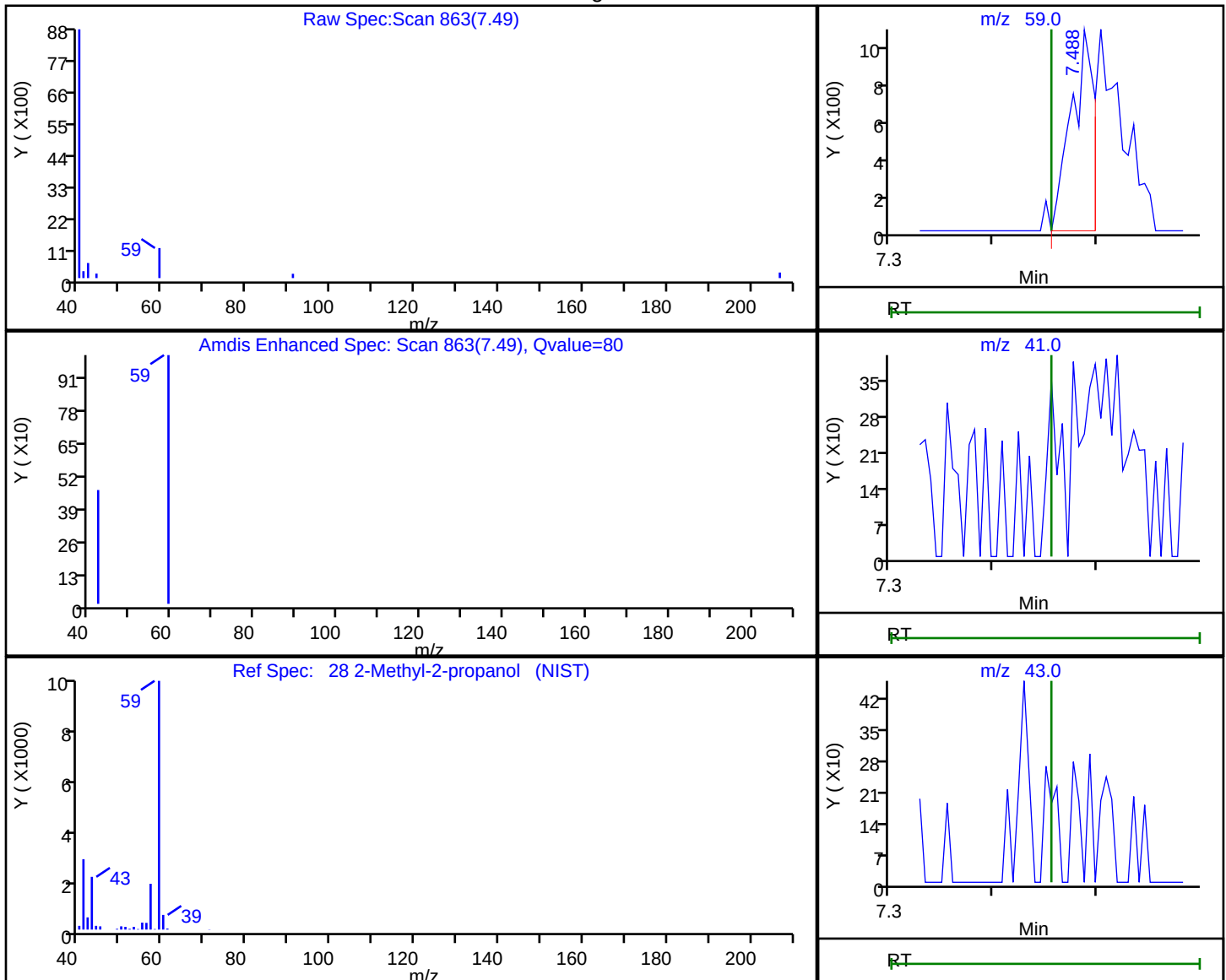
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results



RT	Mass	Response	Amount
7.49	59.00	1592	0.033346
7.48	41.00	0	
7.48	43.00	0	

Reviewer: desjardinsb, 23-Sep-2019 09:12:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D

Injection Date: 22-Sep-2019 15:25:30

Instrument ID: CHC.i

Lims ID: ic

Client ID:

Operator ID: vtp

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

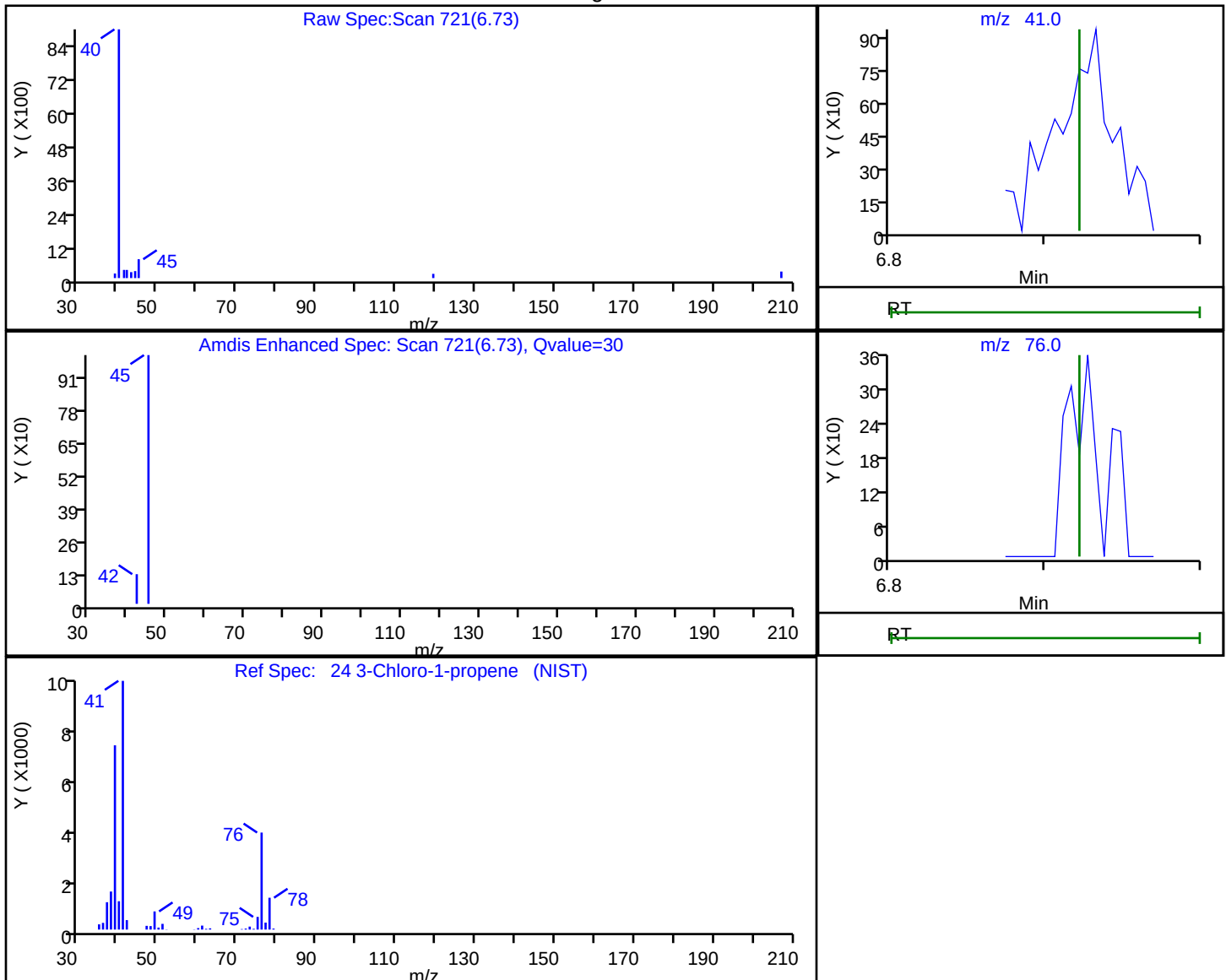
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

24 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
6.73	41.00	167	0.009110
6.95	76.00	0	

Reviewer: desjardinsb, 23-Sep-2019 09:12:53

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D

Injection Date: 22-Sep-2019 15:25:30

Instrument ID: CHC.i

Lims ID: ic

Client ID:

Operator ID: vtp

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

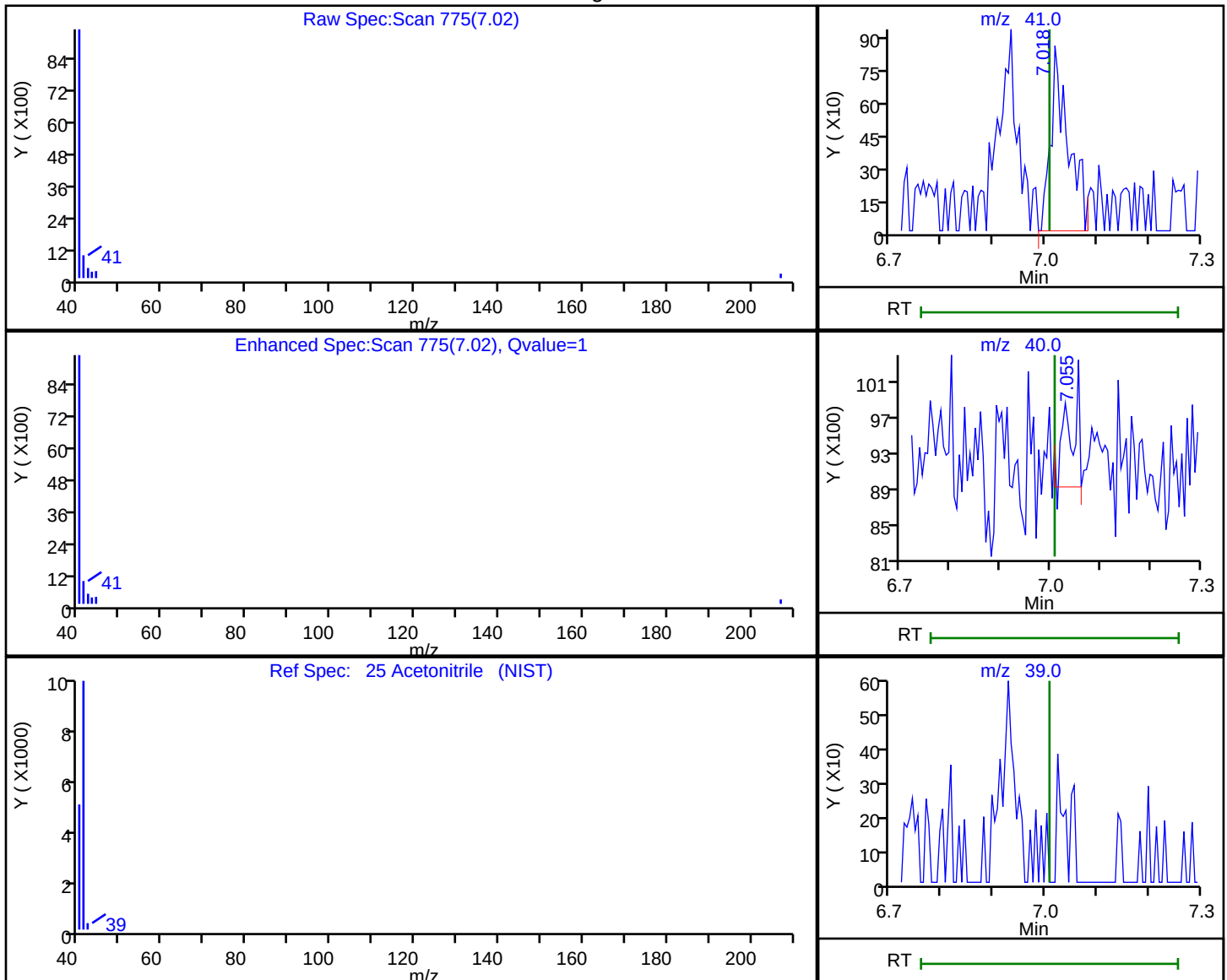
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

25 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
7.02	41.00	2061	0.054005
7.06	40.00	1788	
7.03	39.00	0	

Reviewer: desjardinsb, 23-Sep-2019 09:12:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D

Injection Date: 22-Sep-2019 15:25:30

Instrument ID: CHC.i

Lims ID: ic

Client ID:

Operator ID: vtp

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor:

1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group:

AI_TO15_ICAL

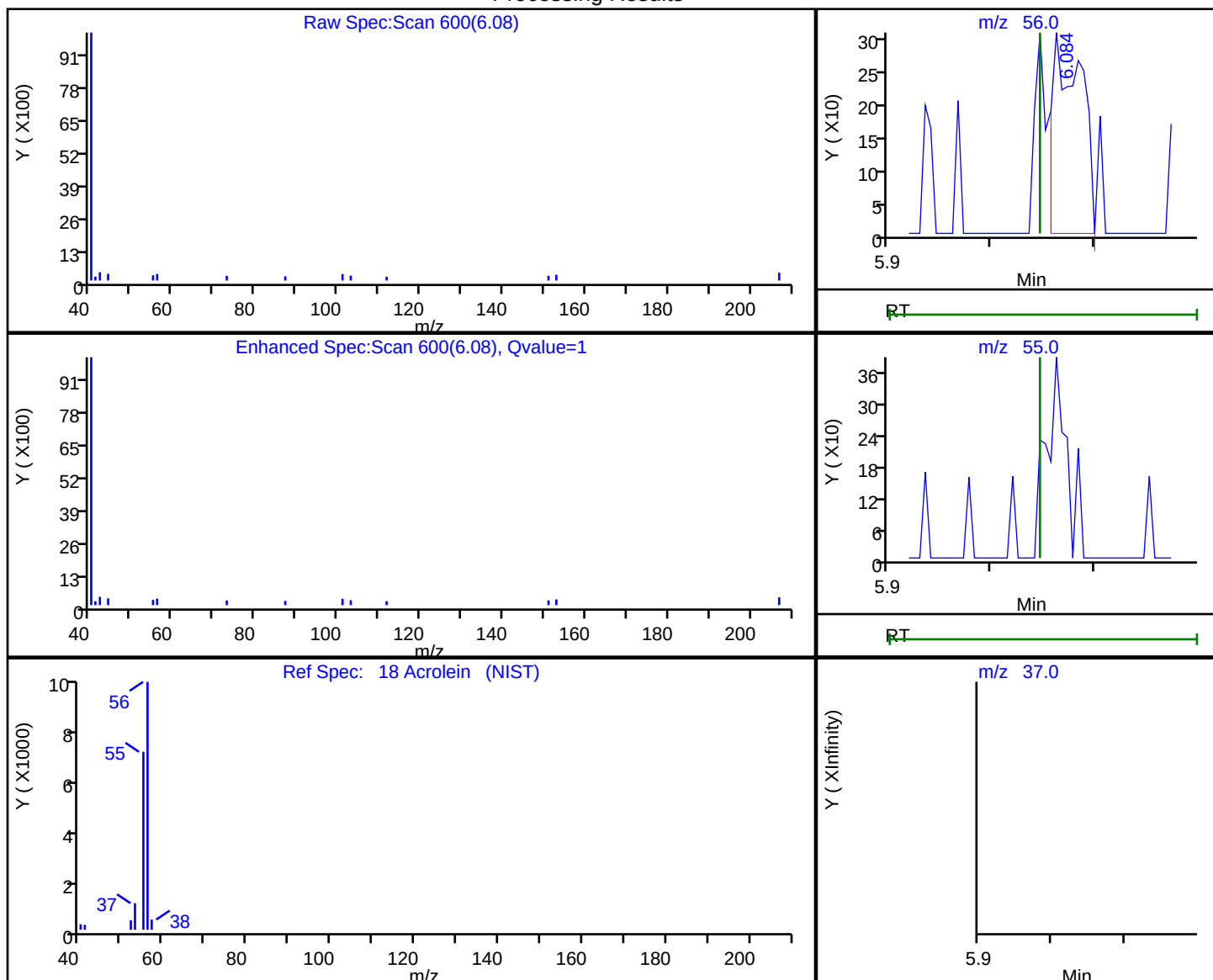
Column: RTX-624 (0.32 mm)

Detector

MS SCAN

18 Acrolein, CAS: 107-02-8

Processing Results



RT	Mass	Response	Amount
6.08	56.00	585	0.047038
6.08	55.00	0	
6.08	37.00	0	

Reviewer: desjardinsb, 23-Sep-2019 09:12:48

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D

Injection Date: 22-Sep-2019 15:25:30

Instrument ID: CHC.i

Lims ID: ic

Client ID:

Operator ID: vtp

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

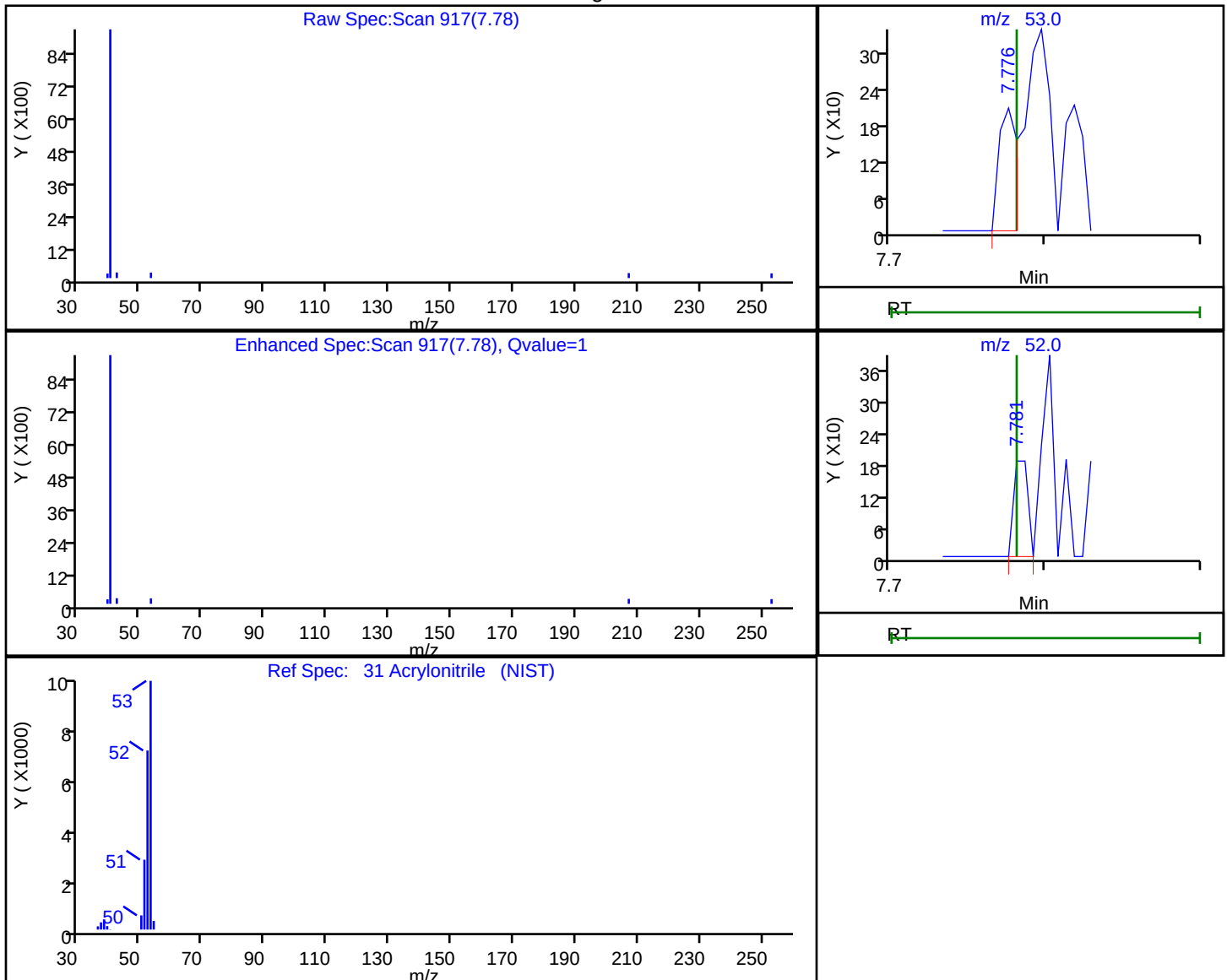
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector MS SCAN

31 Acrylonitrile, CAS: 107-13-1

Processing Results



RT	Mass	Response	Amount
7.78	53.00	167	0.015782
7.78	52.00	116	

Reviewer: desjardinsb, 23-Sep-2019 09:13:03

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D

Injection Date: 22-Sep-2019 15:25:30

Instrument ID: CHC.i

Lims ID: ic

Client ID:

Operator ID: vtp

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

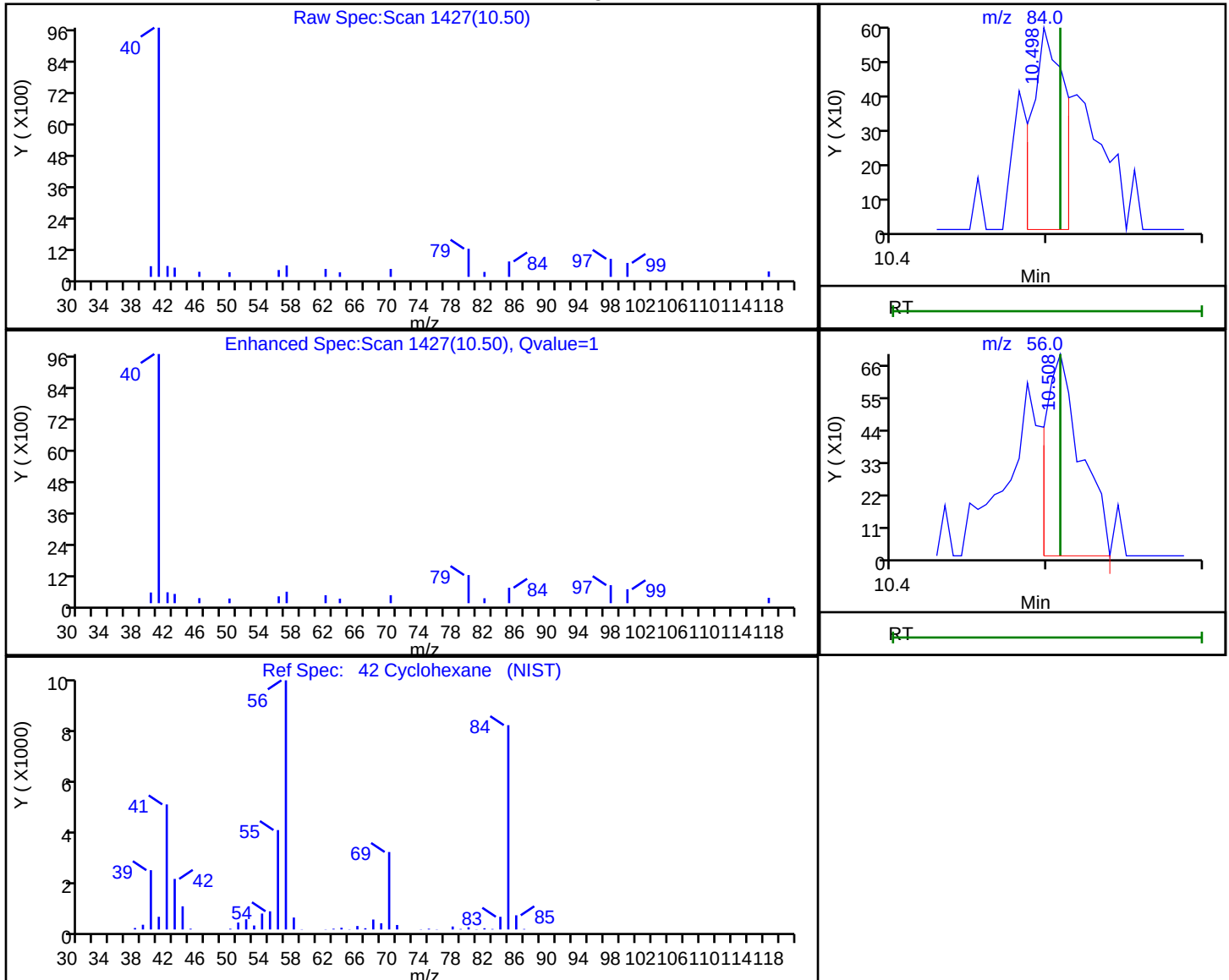
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

42 Cyclohexane, CAS: 110-82-7

Processing Results



RT	Mass	Response	Amount
10.50	84.00	857	0.027006
10.51	56.00	1112	

Reviewer: desjardinsb, 23-Sep-2019 09:13:39

Audit Action: Marked Compound Undetected

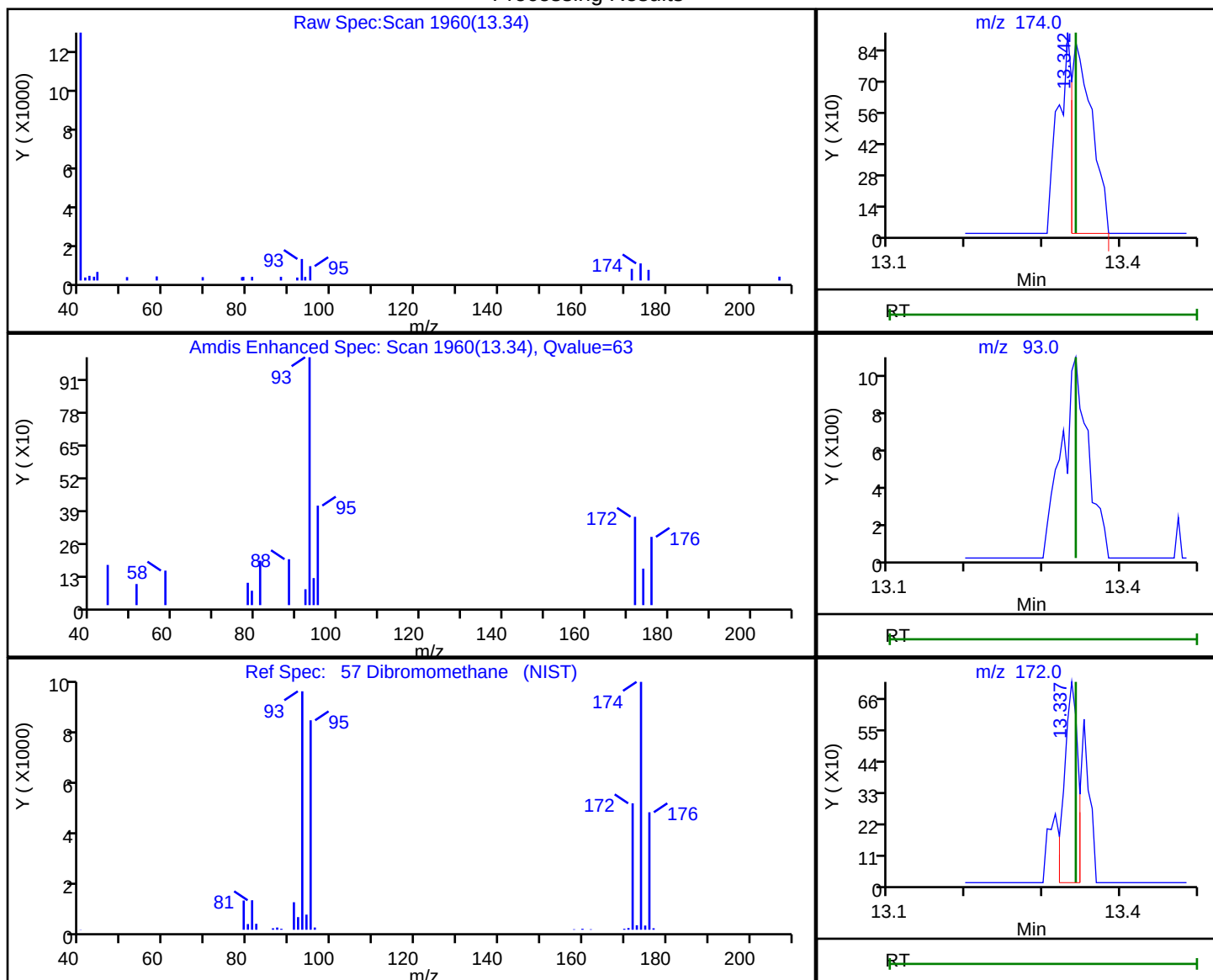
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D
Injection Date: 22-Sep-2019 15:25:30 Instrument ID: CHC.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

57 Dibromomethane, CAS: 74-95-3

Processing Results



RT	Mass	Response	Amount
13.34	174.00	1603	0.032870
13.37	93.00	0	
13.34	172.00	862	

Reviewer: desjardinsb, 23-Sep-2019 09:14:17

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D

Injection Date: 22-Sep-2019 15:25:30

Instrument ID: CHC.i

Lims ID: ic

Client ID:

Operator ID: vtp

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group:

AI_TO15_ICAL

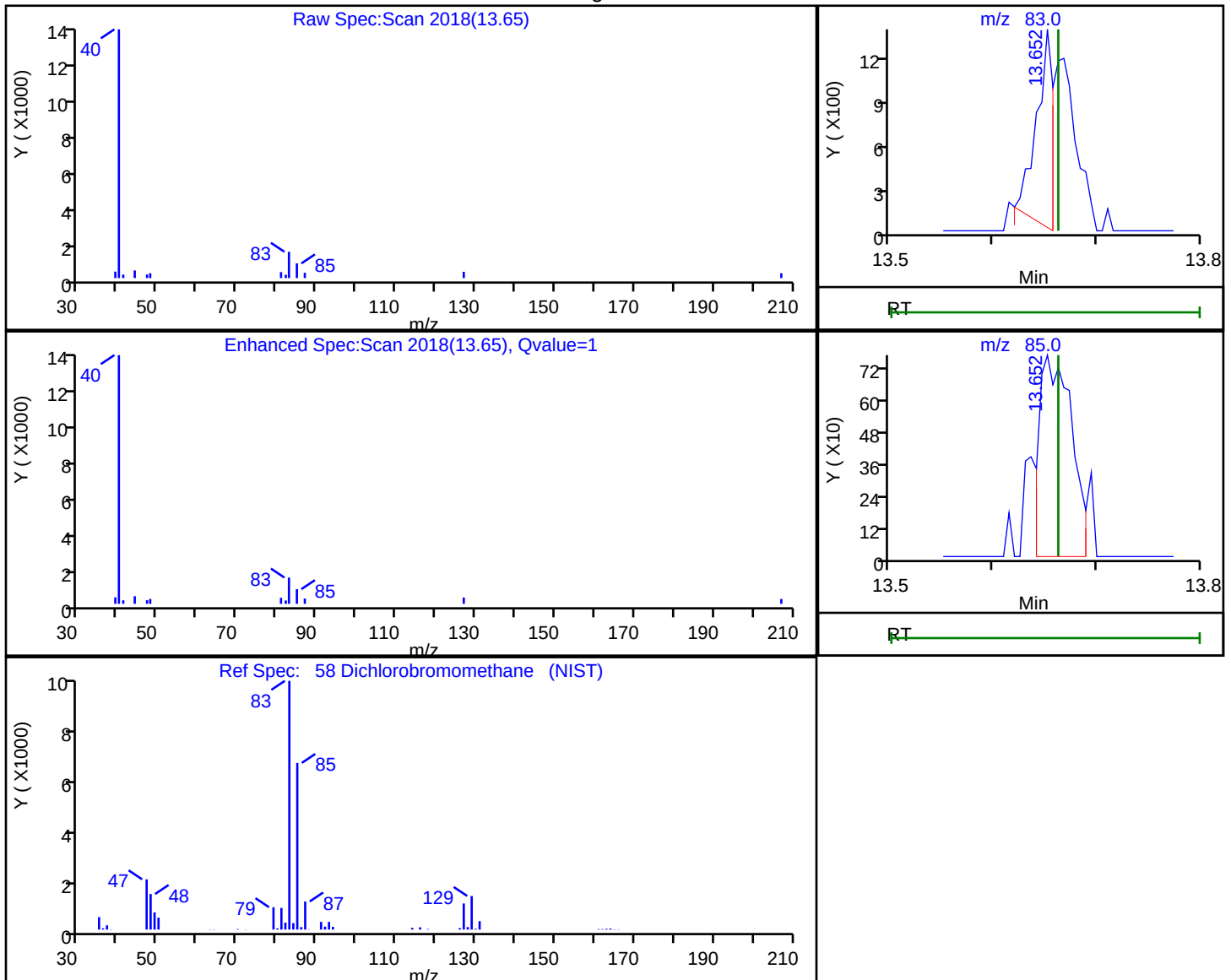
Column: RTX-624 (0.32 mm)

Detector

MS SCAN

58 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
13.65	83.00	1483	0.024086
13.65	85.00	1695	

Reviewer: desjardinsb, 23-Sep-2019 09:14:23

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D

Injection Date: 22-Sep-2019 15:25:30

Instrument ID: CHC.i

Lims ID: ic

Client ID:

Operator ID: vtp

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

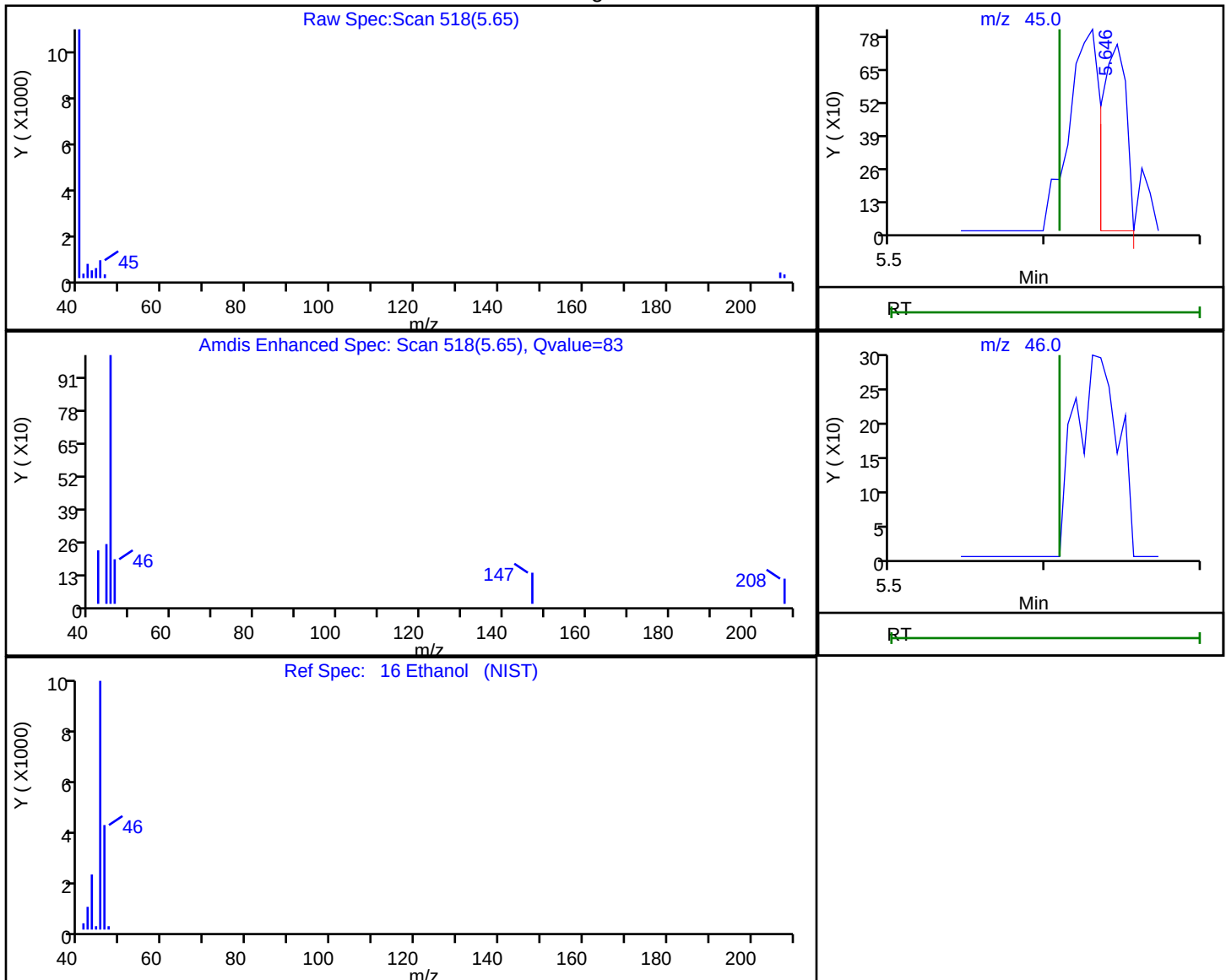
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

16 Ethanol, CAS: 64-17-5

Processing Results



RT	Mass	Response	Amount
5.65	45.00	803	0.074642
5.64	46.00	0	

Reviewer: desjardinsb, 23-Sep-2019 09:12:43

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D

Injection Date: 22-Sep-2019 15:25:30

Instrument ID: CHC.i

Lims ID: ic

Client ID:

Operator ID: vtp

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

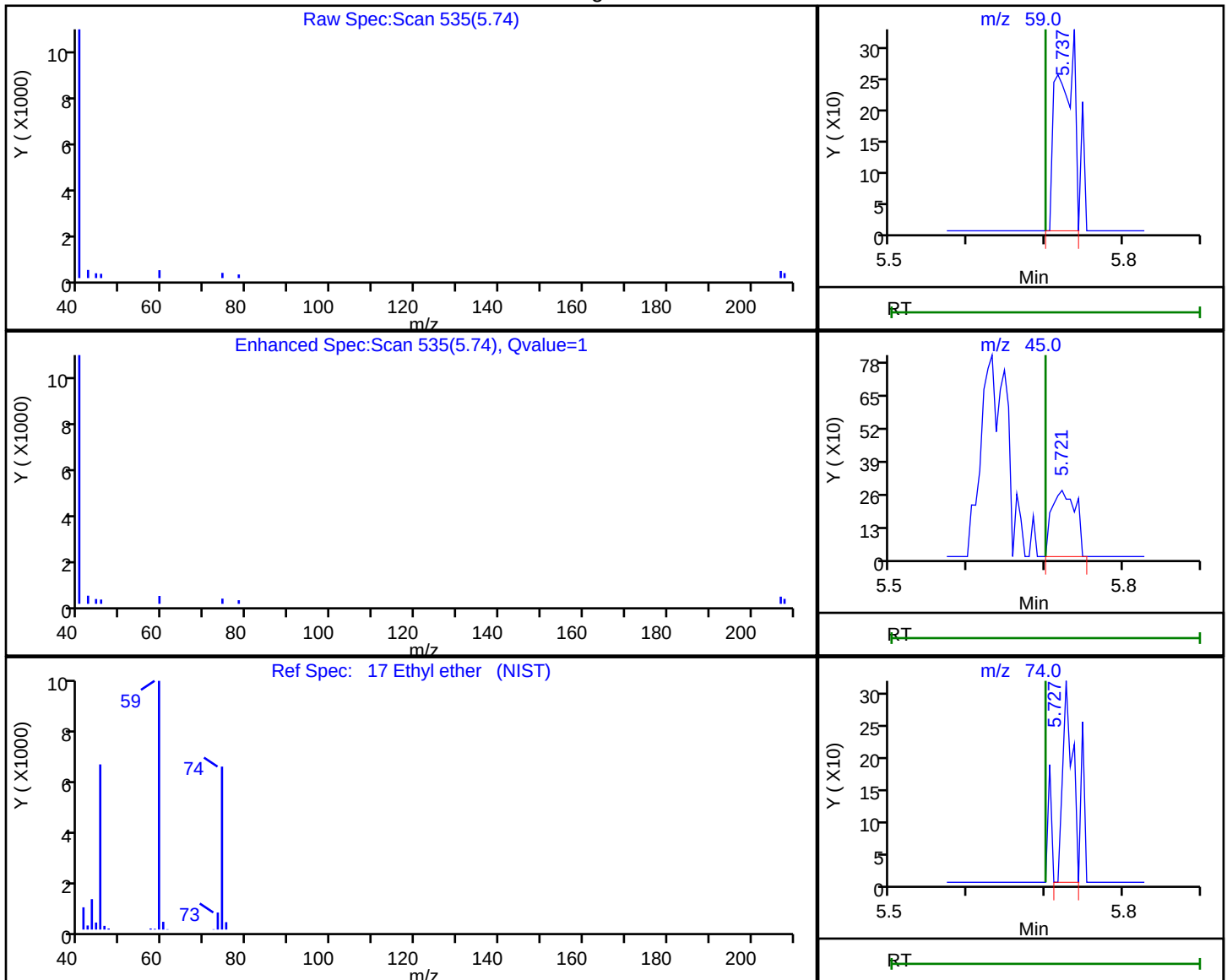
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

17 Ethyl ether, CAS: 60-29-7

Processing Results



RT	Mass	Response	Amount
5.74	59.00	475	0.032850
5.72	45.00	564	
5.73	74.00	277	

Reviewer: desjardinsb, 23-Sep-2019 09:12:45

Audit Action: Marked Compound Undetected

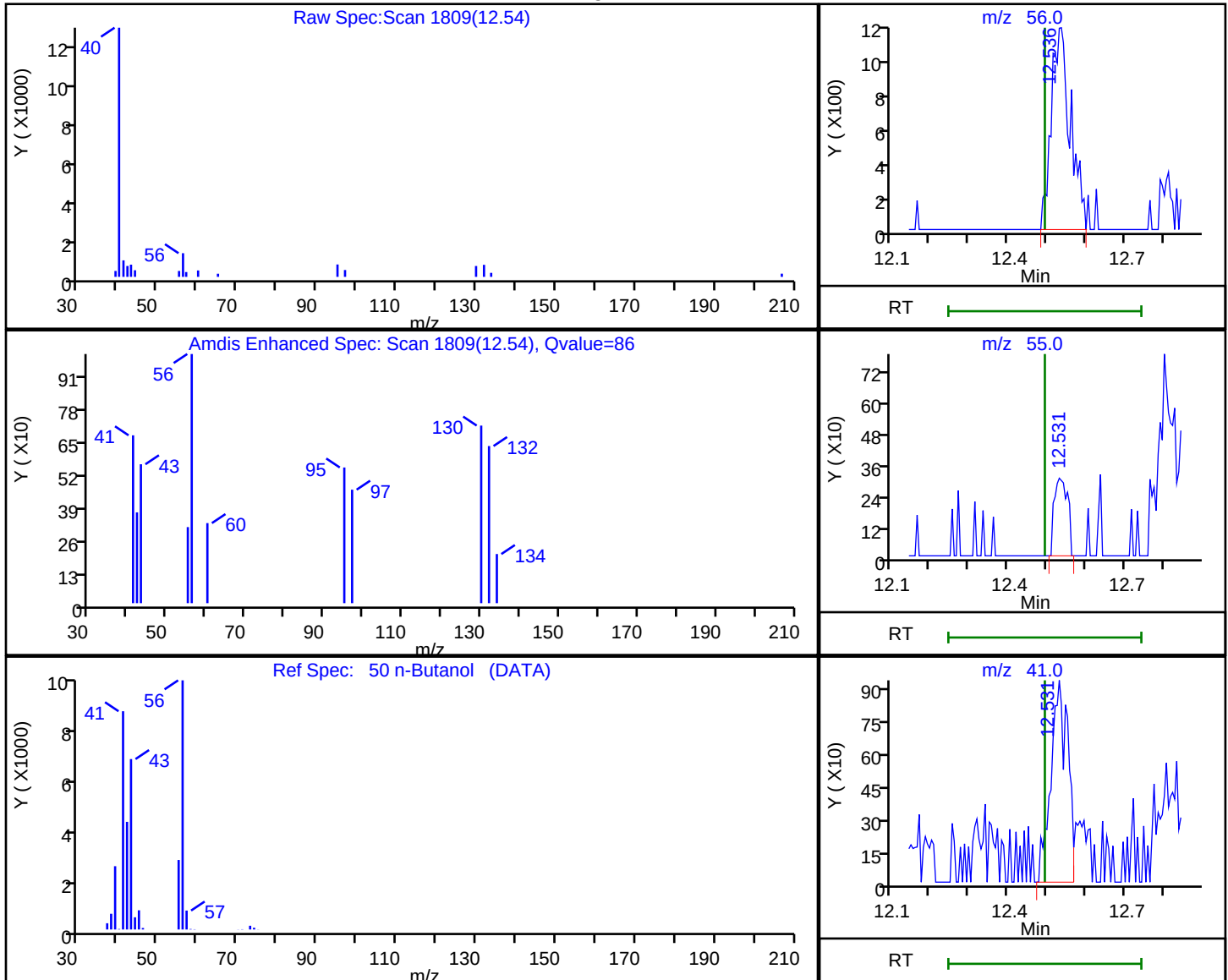
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D
Injection Date: 22-Sep-2019 15:25:30 Instrument ID: CHC.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

50 n-Butanol, CAS: 71-36-3

Processing Results



RT	Mass	Response	Amount
12.54	56.00	4052	0.060314
12.53	55.00	729	
12.53	41.00	2861	

Reviewer: desjardinsb, 23-Sep-2019 09:13:57

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D

Injection Date: 22-Sep-2019 15:25:30

Instrument ID: CHC.i

Lims ID: ic

Client ID:

Operator ID: vtp

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

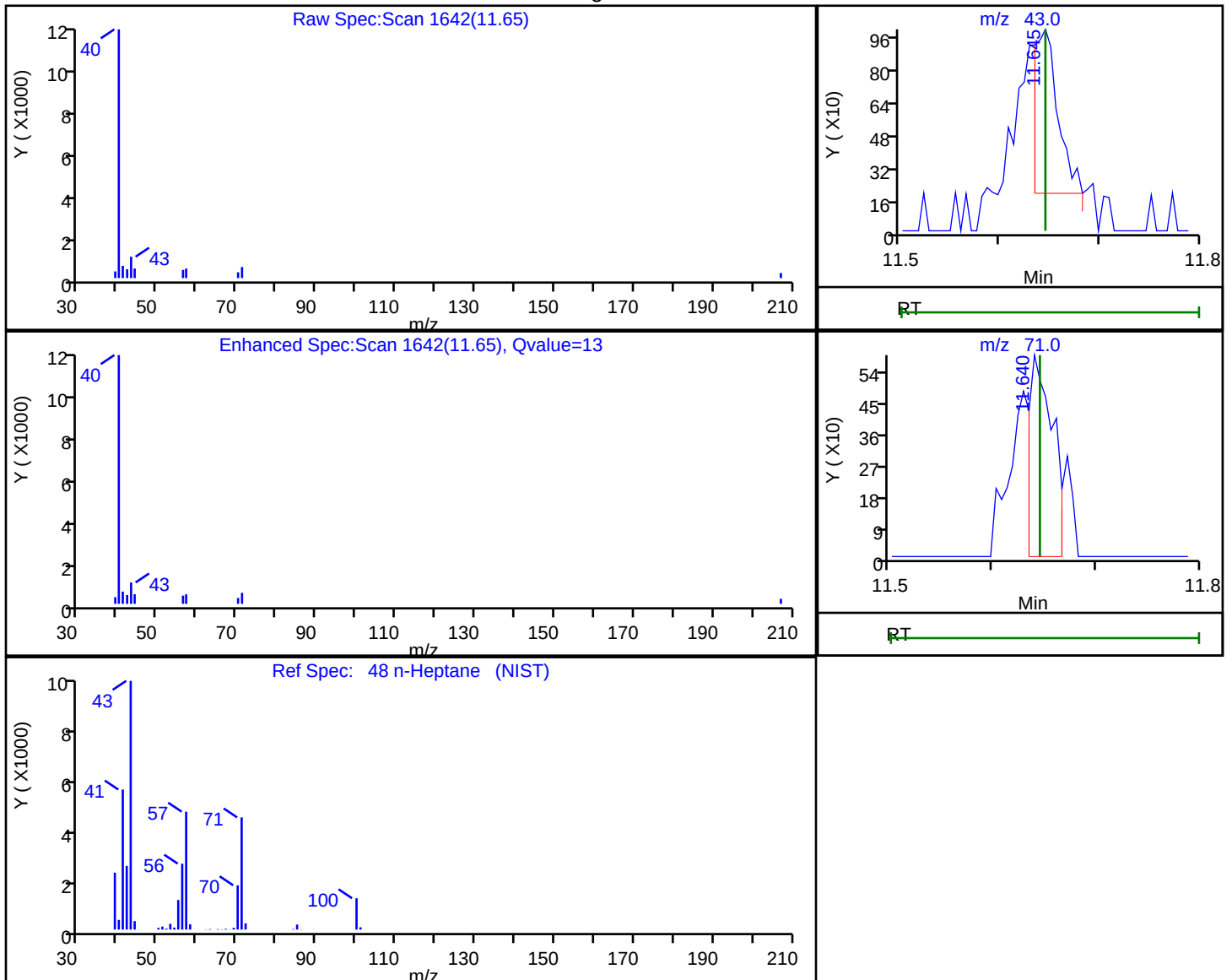
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

48 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
11.65	43.00	1325	0.027516
11.64	71.00	946	

Reviewer: desjardinsb, 23-Sep-2019 09:13:55

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D

Injection Date: 22-Sep-2019 15:25:30

Instrument ID: CHC.i

Lims ID: ic

Client ID:

Operator ID: vtp

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

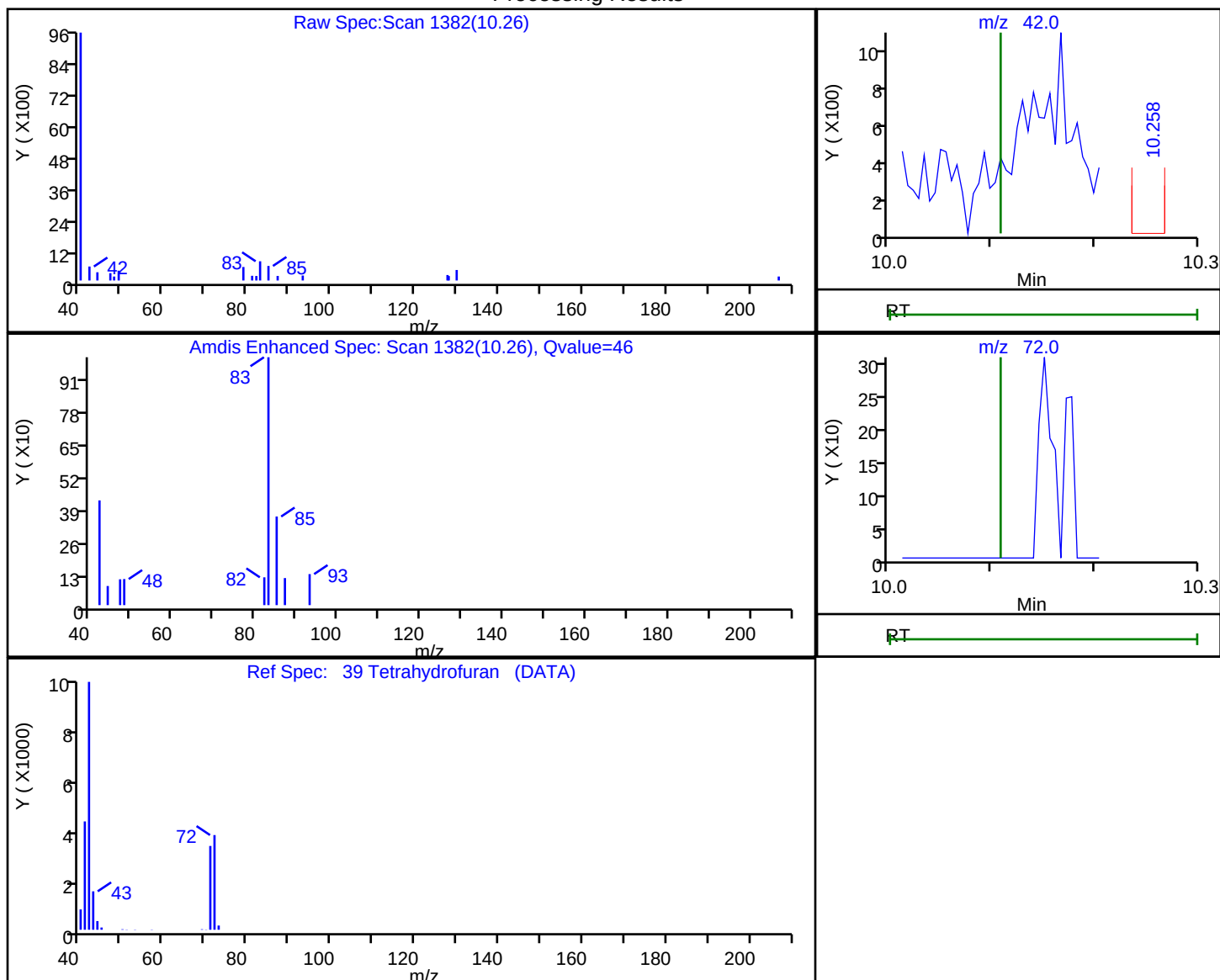
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

39 Tetrahydrofuran, CAS: 109-99-9

Processing Results



RT	Mass	Response	Amount
10.26	42.00	684	0.027727
10.15	72.00	0	

Reviewer: desjardinsb, 23-Sep-2019 09:13:34

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D

Injection Date: 22-Sep-2019 15:25:30

Instrument ID: CHC.i

Lims ID: ic

Client ID:

Operator ID: vtp

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group:

AI_TO15_ICAL

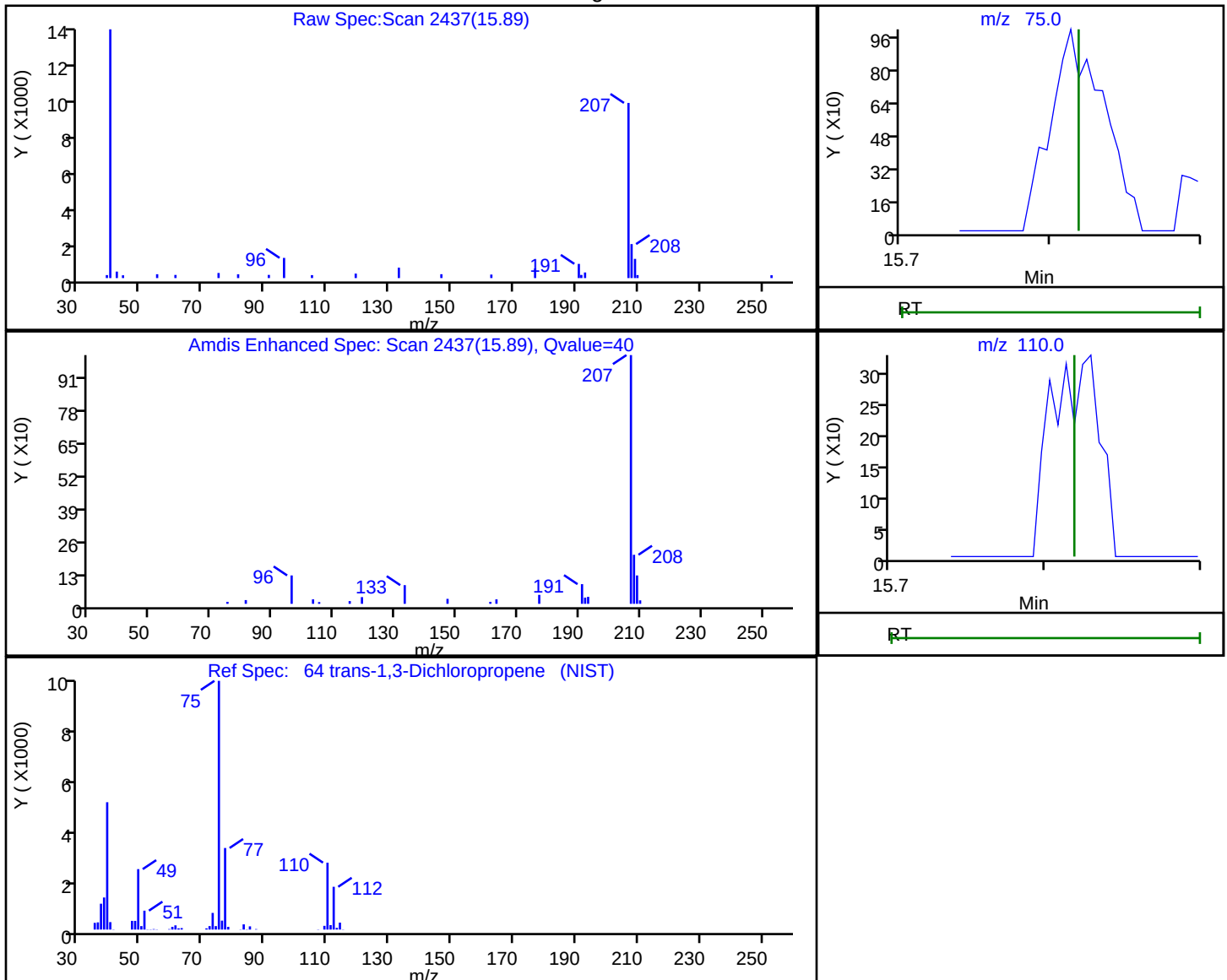
Column: RTX-624 (0.32 mm)

Detector

MS SCAN

64 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



RT	Mass	Response	Amount
15.89	75.00	299	0.008370
15.85	110.00	0	

Reviewer: desjardinsb, 23-Sep-2019 09:14:30

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-04.D

Injection Date: 22-Sep-2019 15:25:30

Instrument ID: CHC.i

Lims ID: ic

Client ID:

Operator ID: vtp

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

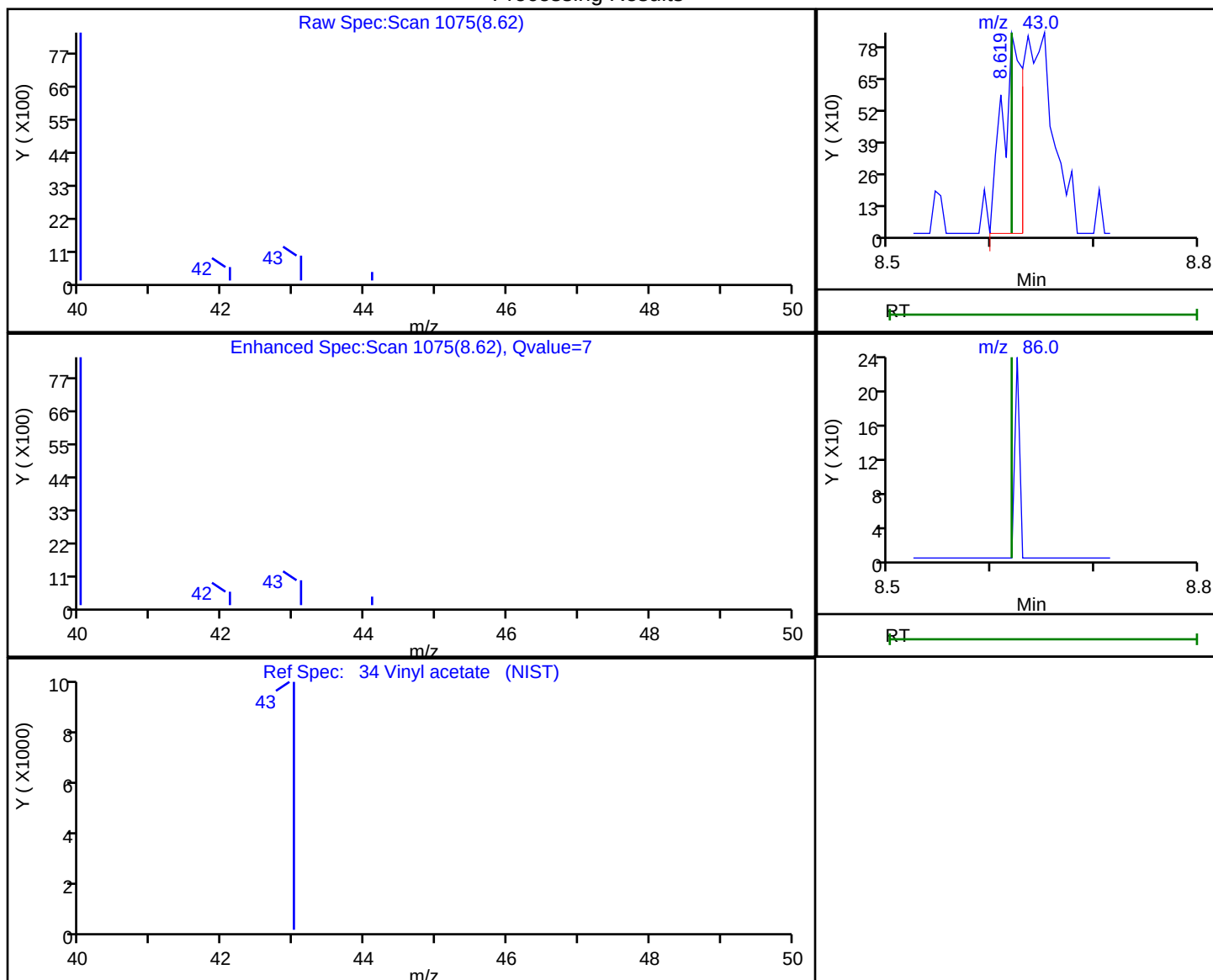
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

34 Vinyl acetate, CAS: 108-05-4

Processing Results



RT	Mass	Response	Amount
8.62	43.00	1109	0.024923
8.65	86.00	0	

Reviewer: desjardinsb, 23-Sep-2019 09:13:05

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-05.D

Lims ID: ic

Client ID:

Sample Type: IC

Calib Level: 2

Inject. Date: 22-Sep-2019 16:30:30

ALS Bottle#: 5

Worklist Smp#: 5

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Sample Info: 200-0037879-005

Misc. Info.: ic-02

Operator ID: vtp

Instrument ID: CHC.i

Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1

Method: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\TO15_MasterMethod_(v1)_CHC.i.m

Limit Group: AI_TO15_ICAL

Last Update: 24-Sep-2019 09:18:18

Calib Date: 23-Sep-2019 10:48:30

Integrator: RTE

ID Type: Deconvolution ID

Quant Method: Internal Standard

Quant By: Initial Calibration

Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D

Column 1 : RTX-624 (0.32 mm)

Det: MS SCAN

Process Host: CTX0311

First Level Reviewer: desjardinsb

Date: 23-Sep-2019 09:16:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	2.925	2.930	-0.005	91	4786	0.2004	0.2452	
2 Dichlorodifluoromethane	85	2.994	2.994	0.000	99	14803	0.2004	0.2322	
3 Chlorodifluoromethane	51	3.037	3.042	-0.005	98	8734	0.2004	0.2393	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.245	3.250	-0.005	92	16103	0.2004	0.2283	
5 Chloromethane	50	3.373	3.373	0.000	98	5015	0.2004	0.2313	
6 Butane	43	3.560	3.565	-0.005	98	9205	0.2004	0.2672	
7 Vinyl chloride	62	3.603	3.597	0.006	97	6180	0.2004	0.2275	
8 Butadiene	54	3.677	3.677	0.000	96	4115	0.2004	0.2207	
9 Bromomethane	94	4.318	4.323	-0.005	95	6042	0.2004	0.2360	
10 Chloroethane	64	4.547	4.552	-0.005	87	2594	0.2004	0.2364	
11 2-Methylbutane	43	4.633	4.648	-0.015	93	6539	0.2004	0.2537	
13 Vinyl bromide	106	4.931	4.931	0.000	95	5218	0.2004	0.2184	
14 Trichlorofluoromethane	101	5.043	5.054	-0.011	99	14430	0.2004	0.2266	
15 Pentane	43	5.193	5.193	0.000	96	10564	0.2004	0.2584	
16 Ethanol	45	5.625	5.609	0.016	94	5906	0.4009	0.6551	
17 Ethyl ether	59	5.721	5.700	0.021	95	3406	0.2004	0.2327	
18 Acrolein	56	6.068	6.047	0.021	1	2110	0.2004	0.2780	
19 1,1,2-Trichloro-1,2,2-trif	101	6.122	6.121	0.001	92	12858	0.2004	0.2276	
20 1,1-Dichloroethene	96	6.148	6.148	0.000	97	5800	0.2004	0.2187	
21 Acetone	43	6.378	6.378	0.000	97	21499	0.2004	0.6712	
22 Carbon disulfide	76	6.527	6.527	0.000	98	16393	0.2004	0.2293	
23 Isopropyl alcohol	45	6.703	6.719	-0.016	100	9202	0.2004	0.2797	
24 3-Chloro-1-propene	41	6.917	6.922	-0.005	95	5250	0.2004	0.1859	
25 Acetonitrile	41	7.018	7.007	0.011	80	5084	0.2004	0.3281	
27 Methylene Chloride	49	7.210	7.221	-0.011	90	6438	0.2004	0.2411	
28 2-Methyl-2-propanol	59	7.482	7.456	0.026	93	15044	0.2004	0.3384	
29 Methyl tert-butyl ether	73	7.648	7.669	-0.021	97	14535	0.2004	0.2205	
30 trans-1,2-Dichloroethene	61	7.675	7.675	0.001	97	7574	0.2004	0.2144	
31 Acrylonitrile	53	7.792	7.781	0.011	99	3450	0.2004	0.2290	
32 Hexane	57	8.086	8.085	0.001	94	7297	0.2004	0.2145	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63	8.528	8.539	-0.011	97	10168	0.2004	0.2161	
34 Vinyl acetate	43	8.619	8.619	0.000	99	11472	0.2004	0.2207	
35 cis-1,2-Dichloroethene	96	9.639	9.644	-0.005	88	6481	0.2004	0.2117	
36 2-Butanone (MEK)	72	9.697	9.697	0.000	99	3267	0.2004	0.2645	
37 Ethyl acetate	88	9.751	9.750	0.001	98	376	0.2004	0.1772	
* 38 Chlorobromomethane	128	10.092	10.092	0.000	82	501846	10.0	10.0	
39 Tetrahydrofuran	42	10.146	10.108	0.038	72	6582	0.2004	0.2486	
S 40 1,2-Dichloroethene, Total	61				0		0.4009	0.4261	
41 Chloroform	83	10.247	10.241	0.006	95	13727	0.2004	0.2260	
42 Cyclohexane	84	10.503	10.508	-0.005	73	8438	0.2004	0.2330	M
43 1,1,1-Trichloroethane	97	10.514	10.514	0.000	94	14388	0.2004	0.2271	
44 Carbon tetrachloride	117	10.775	10.770	0.005	97	13866	0.2004	0.2079	
45 Benzene	78	11.229	11.224	0.005	95	20200	0.2004	0.2288	
46 Isooctane	57	11.234	11.234	0.000	97	30244	0.2004	0.2225	
47 1,2-Dichloroethane	62	11.394	11.389	0.005	93	7917	0.2004	0.2092	
48 n-Heptane	43	11.640	11.645	-0.005	95	13334	0.2004	0.2449	
* 49 1,4-Difluorobenzene	114	12.078	12.077	0.001	95	2353949	10.0	10.0	
50 n-Butanol	56	12.515	12.494	0.021	92	14259	0.2004	0.8385	
51 Trichloroethene	95	12.547	12.558	-0.011	97	9595	0.2004	0.2171	
53 1,2-Dichloropropane	63	13.081	13.086	-0.005	91	7950	0.2004	0.2113	
55 Methyl methacrylate	69	13.294	13.289	0.005	91	7039	0.2004	0.2069	
56 1,4-Dioxane	88	13.342	13.374	-0.032	58	5660	0.2004	0.2911	
57 Dibromomethane	174	13.353	13.342	0.011	96	10764	0.2004	0.2242	
58 Dichlorobromomethane	83	13.663	13.662	0.001	98	16255	0.2004	0.2210	
60 cis-1,3-Dichloropropene	75	14.613	14.607	0.006	91	13093	0.2004	0.2136	
61 4-Methyl-2-pentanone (MIBK)	43	14.911	14.927	-0.016	98	27693	0.2004	0.3606	
62 Toluene	92	15.216	15.210	0.006	93	16002	0.2004	0.2310	
63 n-Octane	43	15.338	15.328	0.010	93	20465	0.2004	0.2360	
64 trans-1,3-Dichloropropene	75	15.824	15.819	0.005	95	12150	0.2004	0.2146	
65 1,1,2-Trichloroethane	83	16.182	16.187	-0.005	96	8612	0.2004	0.2361	
66 Tetrachloroethene	166	16.326	16.326	0.000	98	14442	0.2004	0.2106	
67 2-Hexanone	43	16.657	16.662	-0.005	92	32227	0.2004	0.4556	
68 Chlorodibromomethane	129	16.950	16.945	0.005	98	17308	0.2004	0.2123	
69 Ethylene Dibromide	107	17.206	17.206	0.000	98	14150	0.2004	0.2069	
* 70 Chlorobenzene-d5	117	18.124	18.124	0.000	85	2188541	10.0	10.0	
71 Chlorobenzene	112	18.183	18.178	0.005	94	22616	0.2004	0.2253	
72 Ethylbenzene	91	18.354	18.348	0.006	98	35607	0.2004	0.2298	
73 n-Nonane	57	18.530	18.535	-0.005	95	15779	0.2004	0.2125	
74 m-Xylene & p-Xylene	106	18.605	18.599	0.006	0	27103	0.4009	0.4353	
76 o-Xylene	106	19.442	19.442	0.000	96	12609	0.2004	0.2113	
77 Styrene	104	19.496	19.501	-0.005	95	18869	0.2004	0.1968	
78 Bromoform	173	19.917	19.928	-0.011	96	15595	0.2004	0.1865	
S 79 Xylenes, Total	106				0		0.6013	0.6466	
80 Isopropylbenzene	105	20.168	20.163	0.005	95	37536	0.2004	0.2130	
81 1,1,2,2-Tetrachloroethane	83	20.846	20.846	0.000	97	22086	0.2004	0.2252	
82 N-Propylbenzene	91	20.926	20.921	0.005	98	45487	0.2004	0.2148	
83 1,2,3-Trichloropropane	75	20.926	20.926	0.000	69	17731	0.2004	0.2371	
85 2-Chlorotoluene	91	21.124	21.118	0.006	87	30657	0.2004	0.2087	
84 4-Ethyltoluene	105	21.124	21.124	0.000	90	37062	0.2004	0.2062	
86 n-Decane	57	21.145	21.150	-0.005	85	21802	0.2004	0.2250	
87 1,3,5-Trimethylbenzene	105	21.236	21.236	0.000	94	30216	0.2004	0.2055	
88 Alpha Methyl Styrene	118	21.615	21.620	-0.005	88	14603	0.2004	0.1826	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
89 tert-Butylbenzene	119	21.737	21.743	-0.006	95	29382	0.2004	0.1993	
90 1,2,4-Trimethylbenzene	105	21.839	21.833	0.006	97	29476	0.2004	0.1980	
91 sec-Butylbenzene	105	22.079	22.079	0.000	99	45041	0.2004	0.1998	
92 4-Isopropyltoluene	119	22.287	22.282	0.005	97	37465	0.2004	0.1923	
93 1,3-Dichlorobenzene	146	22.303	22.308	-0.005	96	21373	0.2004	0.1807	
94 1,4-Dichlorobenzene	146	22.442	22.447	-0.005	95	21375	0.2004	0.1829	
95 Benzyl chloride	91	22.634	22.634	0.000	99	25762	0.2004	0.1849	
96 n-Butylbenzene	91	22.858	22.863	-0.005	98	34519	0.2004	0.1926	
97 Undecane	57	22.906	22.906	0.000	96	22354	0.2004	0.2031	
98 1,2-Dichlorobenzene	146	22.965	22.970	-0.005	97	20120	0.2004	0.1790	
99 Dodecane	57	24.443	24.438	0.005	95	12156	0.2004	0.1416	
100 1,2,4-Trichlorobenzene	180	25.356	25.382	-0.026	89	5284	0.2004	0.0645	
101 Hexachlorobutadiene	225	25.559	25.553	0.006	98	15090	0.2004	0.1715	
102 Naphthalene	128	25.809	25.809	0.000	97	5033	0.2004	0.0334	
103 1,2,3-Trichlorobenzene	180	26.268	26.258	0.010	76	2303	0.2004	0.0382	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15CAL1w_00207

Amount Added: 200.00

Units: mL

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-05.D

Injection Date: 22-Sep-2019 16:30:30

Instrument ID: CHC.i

Operator ID: vtp

Lims ID: ic

Worklist Smp#: 5

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

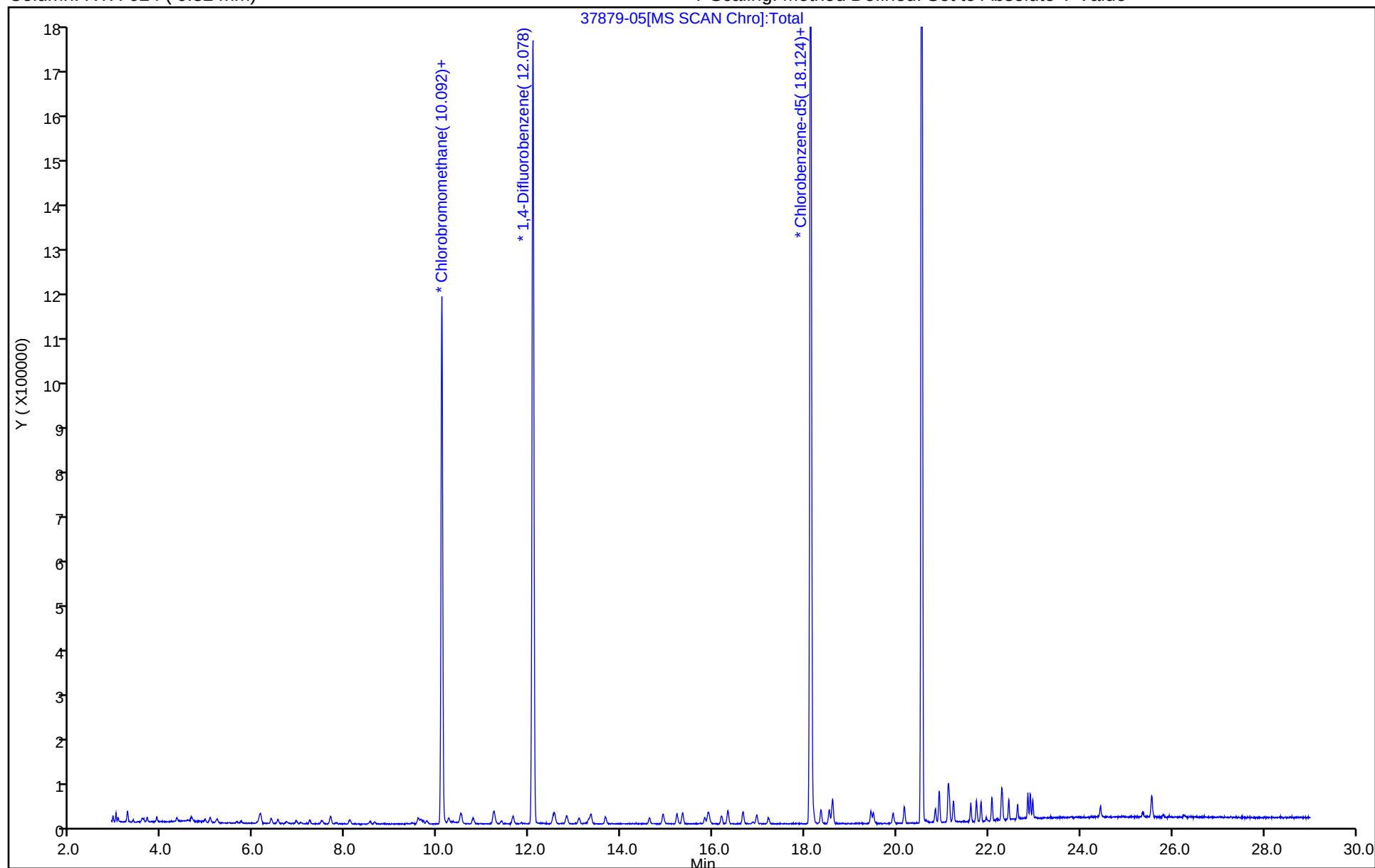
ALS Bottle#: 5

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Burlington

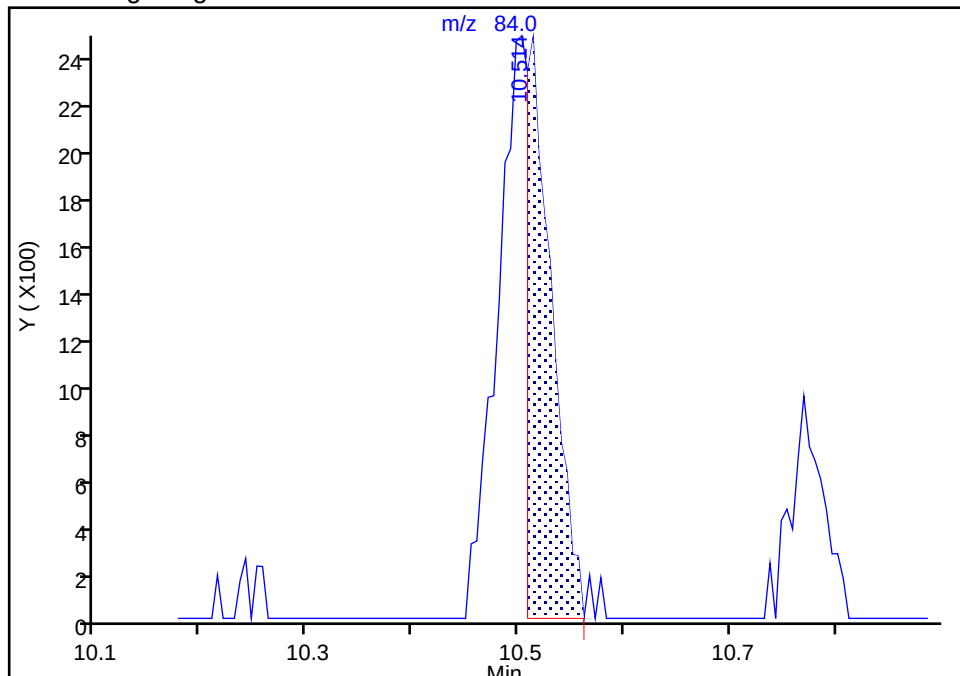
Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-05.D
Injection Date: 22-Sep-2019 16:30:30 Instrument ID: CHC.i
Lims ID: ic
Client ID:
Operator ID: vtp ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

42 Cyclohexane, CAS: 110-82-7

Signal: 1

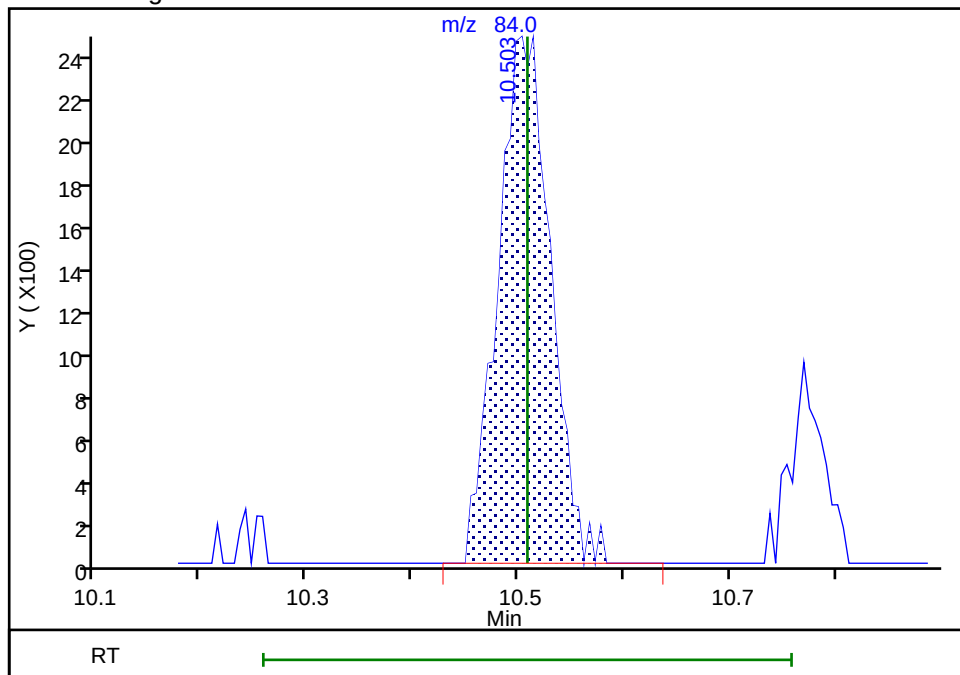
RT: 10.51
Area: 4093
Amount: 0.147536
Amount Units: ppb v/v

Processing Integration Results



RT: 10.50
Area: 8438
Amount: 0.233041
Amount Units: ppb v/v

Manual Integration Results



Reviewer: desjardinsb, 23-Sep-2019 09:16:00

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-05.D

Injection Date: 22-Sep-2019 16:30:30

Instrument ID: CHC.i

Lims ID: ic

Client ID:

Operator ID: vtp

ALS Bottle#:

5

Worklist Smp#:

5

Purge Vol: 200.000 mL

Dil. Factor:

1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group:

AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector

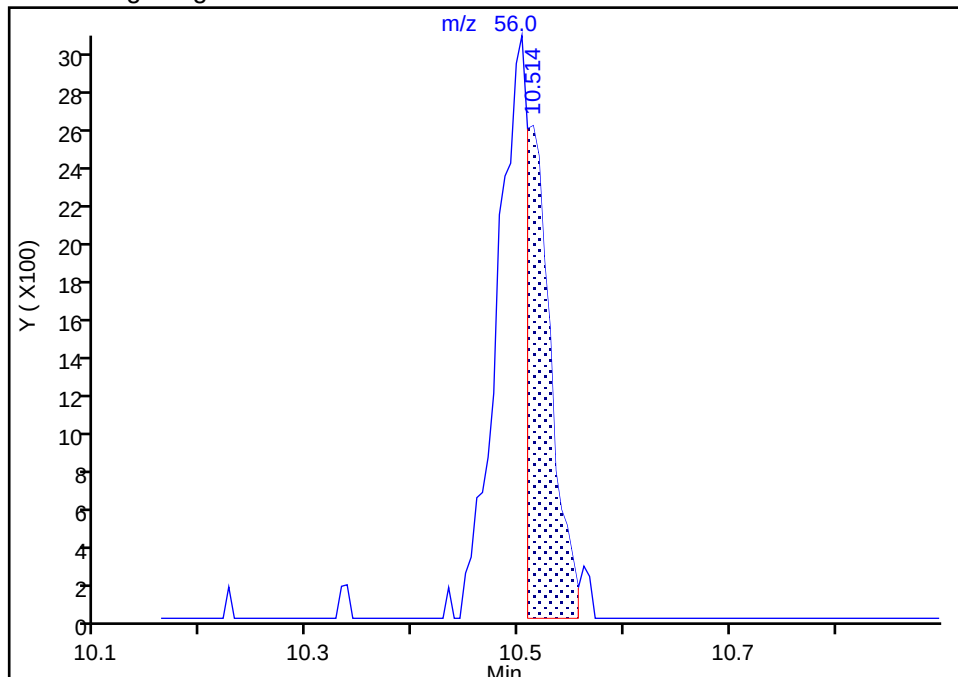
MS SCAN

42 Cyclohexane, CAS: 110-82-7

Signal: 2

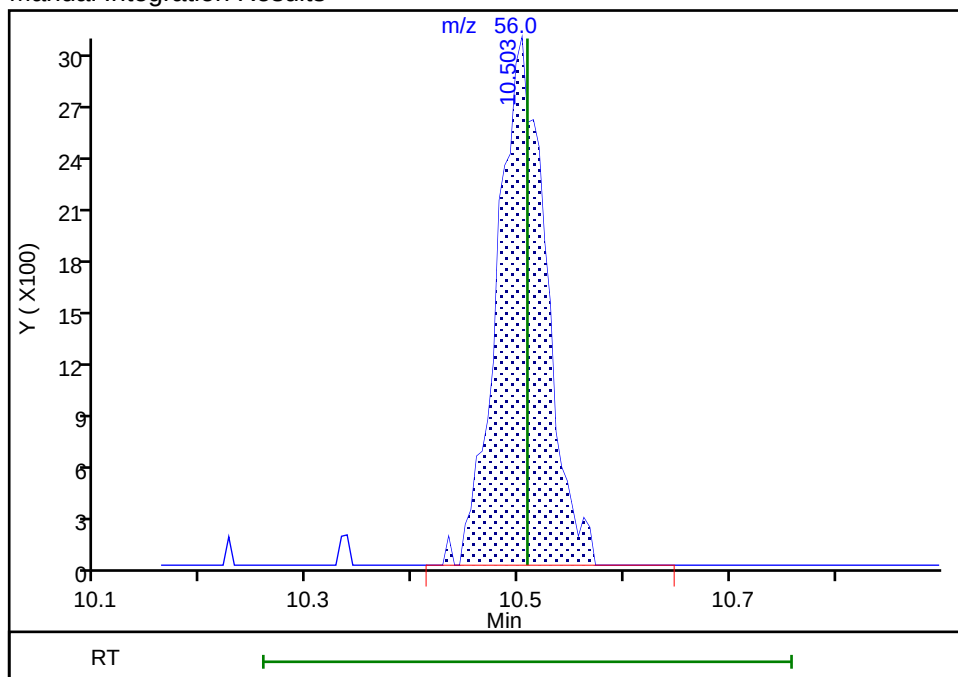
RT: 10.51
Area: 4185
Amount: 0.147536
Amount Units: ppb v/v

Processing Integration Results



RT: 10.50
Area: 9639
Amount: 0.233041
Amount Units: ppb v/v

Manual Integration Results



Reviewer: desjardinsb, 23-Sep-2019 09:16:04

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-06.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 22-Sep-2019 17:36:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 200.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0037879-006
 Misc. Info.: ic-03
 Operator ID: vtp Instrument ID: CHC.i
 Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1
 Method: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\TO15_MasterMethod_(v1)_CHC.i.m
 Limit Group: AI_TO15_ICAL
 Last Update: 24-Sep-2019 09:18:22 Calib Date: 23-Sep-2019 10:48:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX0311

First Level Reviewer: desjardinsb

Date: 23-Sep-2019 09:18:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	2.925	2.930	-0.005	99	9925	0.5005	0.5490	
2 Dichlorodifluoromethane	85	2.989	2.994	-0.005	99	32158	0.5005	0.5447	
3 Chlorodifluoromethane	51	3.037	3.042	-0.005	97	19424	0.5005	0.5746	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.239	3.250	-0.011	92	33802	0.5005	0.5174	
5 Chloromethane	50	3.368	3.373	-0.005	99	11123	0.5005	0.5539	
6 Butane	43	3.565	3.565	0.000	98	19205	0.5005	0.6020	
7 Vinyl chloride	62	3.597	3.597	0.000	98	12843	0.5005	0.5105	
8 Butadiene	54	3.672	3.677	-0.005	97	8855	0.5005	0.5127	
9 Bromomethane	94	4.317	4.323	-0.006	98	12292	0.5005	0.5184	
10 Chloroethane	64	4.552	4.552	0.000	96	5508	0.5005	0.5421	
11 2-Methylbutane	43	4.648	4.648	0.000	88	13786	0.5005	0.5775	
13 Vinyl bromide	106	4.937	4.931	0.006	99	11923	0.5005	0.5388	
14 Trichlorofluoromethane	101	5.043	5.054	-0.011	99	32177	0.5005	0.5455	
15 Pentane	43	5.193	5.193	0.000	97	19498	0.5005	0.5150	
16 Ethanol	45	5.609	5.609	0.000	97	50659	5.01	6.07	
17 Ethyl ether	59	5.705	5.700	0.005	91	6865	0.5005	0.5065	
18 Acrolein	56	6.052	6.047	0.005	91	4222	0.5005	0.6006	
19 1,1,2-Trichloro-1,2,2-trif	101	6.121	6.121	0.000	95	26898	0.5005	0.5140	
20 1,1-Dichloroethene	96	6.143	6.148	-0.005	98	11930	0.5005	0.4857	
21 Acetone	43	6.372	6.378	-0.006	98	22942	0.5005	0.7734	
22 Carbon disulfide	76	6.516	6.527	-0.011	99	35524	0.5005	0.5364	
23 Isopropyl alcohol	45	6.708	6.719	-0.011	100	16707	0.5005	0.5483	
24 3-Chloro-1-propene	41	6.922	6.922	0.000	94	15130	0.5005	0.5783	
25 Acetonitrile	41	7.018	7.007	0.011	99	9897	0.5005	0.6896	
27 Methylene Chloride	49	7.215	7.221	-0.006	93	13939	0.5005	0.5636	
28 2-Methyl-2-propanol	59	7.472	7.456	0.016	93	21216	0.5005	0.5152	
29 Methyl tert-butyl ether	73	7.658	7.669	-0.011	96	31736	0.5005	0.5198	
30 trans-1,2-Dichloroethene	61	7.674	7.675	0.000	98	16957	0.5005	0.5182	
31 Acrylonitrile	53	7.792	7.781	0.011	95	6800	0.5005	0.4873	
32 Hexane	57	8.085	8.085	0.000	92	16947	0.5005	0.5380	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63	8.528	8.539	-0.011	99	21635	0.5005	0.4963	
34 Vinyl acetate	43	8.624	8.619	0.005	100	26204	0.5005	0.5443	
35 cis-1,2-Dichloroethene	96	9.633	9.644	-0.011	90	13693	0.5005	0.4830	
36 2-Butanone (MEK)	72	9.686	9.697	-0.011	100	6011	0.5005	0.5254	
37 Ethyl acetate	88	9.750	9.750	0.000	99	759	0.5005	0.3863	
* 38 Chlorobromomethane	128	10.092	10.092	0.000	83	464807	10.0	10.0	
39 Tetrahydrofuran	42	10.135	10.108	0.027	93	13534	0.5005	0.5511	
S 40 1,2-Dichloroethene, Total	61				0		1.00	1.00	
41 Chloroform	83	10.236	10.241	-0.005	95	29401	0.5005	0.5225	
42 Cyclohexane	84	10.508	10.508	0.000	73	16172	0.5005	0.4815	
43 1,1,1-Trichloroethane	97	10.519	10.514	0.005	95	31370	0.5005	0.5338	
44 Carbon tetrachloride	117	10.775	10.770	0.005	98	32205	0.5005	0.5207	
45 Benzene	78	11.218	11.224	-0.006	96	42201	0.5005	0.5152	
46 Isooctane	57	11.234	11.234	0.000	98	65889	0.5005	0.5226	
47 1,2-Dichloroethane	62	11.389	11.389	0.000	96	19244	0.5005	0.5482	
48 n-Heptane	43	11.634	11.645	-0.011	95	26591	0.5005	0.5264	
* 49 1,4-Difluorobenzene	114	12.077	12.077	0.000	94	2183521	10.0	10.0	
50 n-Butanol	56	12.510	12.494	0.016	90	9650	0.5005	0.6118	
51 Trichloroethene	95	12.552	12.558	-0.006	98	21266	0.5005	0.5186	
53 1,2-Dichloropropane	63	13.081	13.086	-0.005	91	18353	0.5005	0.5259	
55 Methyl methacrylate	69	13.289	13.289	0.000	93	16172	0.5005	0.5125	
56 1,4-Dioxane	88	13.337	13.374	-0.037	51	9759	0.5005	0.5411	
57 Dibromomethane	174	13.337	13.342	-0.005	93	22363	0.5005	0.5021	
58 Dichlorobromomethane	83	13.657	13.662	-0.005	99	35285	0.5005	0.5172	
60 cis-1,3-Dichloropropene	75	14.618	14.607	0.011	92	28991	0.5005	0.5100	
61 4-Methyl-2-pentanone (MIBK)	43	14.906	14.927	-0.021	97	38376	0.5005	0.5387	
62 Toluene	92	15.215	15.210	0.005	94	33063	0.5005	0.5153	
63 n-Octane	43	15.344	15.328	0.016	95	43760	0.5005	0.5441	
64 trans-1,3-Dichloropropene	75	15.819	15.819	-0.001	97	26154	0.5005	0.4981	
65 1,1,2-Trichloroethane	83	16.176	16.187	-0.011	96	17540	0.5005	0.5191	
66 Tetrachloroethene	166	16.320	16.326	-0.006	96	31204	0.5005	0.4913	
67 2-Hexanone	43	16.646	16.662	-0.016	92	37568	0.5005	0.5735	
68 Chlorodibromomethane	129	16.950	16.945	0.005	97	36964	0.5005	0.4895	
69 Ethylene Dibromide	107	17.206	17.206	0.000	96	33047	0.5005	0.5216	
* 70 Chlorobenzene-d5	117	18.124	18.124	0.000	86	2027035	10.0	10.0	
71 Chlorobenzene	112	18.188	18.178	0.010	97	47950	0.5005	0.5157	
72 Ethylbenzene	91	18.343	18.348	-0.005	98	73701	0.5005	0.5136	
73 n-Nonane	57	18.530	18.535	-0.005	95	36270	0.5005	0.5275	
74 m-Xylene & p-Xylene	106	18.604	18.599	0.005	0	57279	1.00	0.99	
76 o-Xylene	106	19.448	19.442	0.006	98	27359	0.5005	0.4951	
77 Styrene	104	19.496	19.501	-0.005	98	41482	0.5005	0.4672	
78 Bromoform	173	19.917	19.928	-0.011	98	32487	0.5005	0.4195	
S 79 Xylenes, Total	106				0		1.50	1.49	
80 Isopropylbenzene	105	20.168	20.163	0.005	96	79293	0.5005	0.4858	
81 1,1,2,2-Tetrachloroethane	83	20.841	20.846	-0.005	97	44549	0.5005	0.4905	
82 N-Propylbenzene	91	20.921	20.921	0.000	99	96715	0.5005	0.4930	
83 1,2,3-Trichloropropane	75	20.931	20.926	0.005	98	36301	0.5005	0.5242	
85 2-Chlorotoluene	91	21.118	21.118	0.000	95	66496	0.5005	0.4888	
84 4-Ethyltoluene	105	21.123	21.124	-0.001	95	79569	0.5005	0.4780	
86 n-Decane	57	21.150	21.150	0.000	89	47957	0.5005	0.5343	
87 1,3,5-Trimethylbenzene	105	21.235	21.236	-0.001	94	64769	0.5005	0.4757	
88 Alpha Methyl Styrene	118	21.614	21.620	-0.006	91	33047	0.5005	0.4462	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
89 tert-Butylbenzene	119	21.737	21.743	-0.006	93	63213	0.5005	0.4628	
90 1,2,4-Trimethylbenzene	105	21.833	21.833	0.000	97	62035	0.5005	0.4499	
91 sec-Butylbenzene	105	22.073	22.079	-0.006	99	95271	0.5005	0.4563	
92 4-Isopropyltoluene	119	22.287	22.282	0.005	98	79271	0.5005	0.4392	
93 1,3-Dichlorobenzene	146	22.303	22.308	-0.005	98	47759	0.5005	0.4360	
94 1,4-Dichlorobenzene	146	22.442	22.447	-0.005	92	46500	0.5005	0.4297	
95 Benzyl chloride	91	22.634	22.634	0.000	99	58463	0.5005	0.4531	
96 n-Butylbenzene	91	22.858	22.863	-0.005	98	74681	0.5005	0.4500	
97 Undecane	57	22.911	22.906	0.005	97	49696	0.5005	0.4874	
98 1,2-Dichlorobenzene	146	22.965	22.970	-0.005	97	44937	0.5005	0.4316	
99 Dodecane	57	24.438	24.438	0.000	93	26199	0.5005	0.3296	
100 1,2,4-Trichlorobenzene	180	25.361	25.382	-0.021	94	18085	0.5005	0.2382	
101 Hexachlorobutadiene	225	25.558	25.553	0.005	98	32111	0.5005	0.3939	
102 Naphthalene	128	25.804	25.809	-0.005	99	28269	0.5005	0.2027	
103 1,2,3-Trichlorobenzene	180	26.257	26.258	-0.001	95	10071	0.5005	0.1803	

Reagents:

ATTO15CAL2w_00283

Amount Added: 200.00

Units: mL

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

Report Date: 24-Sep-2019 09:18:23

Chrom Revision: 2.3 17-Sep-2019 16:19:08

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-06.D

Injection Date: 22-Sep-2019 17:36:30

Instrument ID: CHC.i

Operator ID: vtp

Lims ID: ic

Worklist Smp#: 6

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

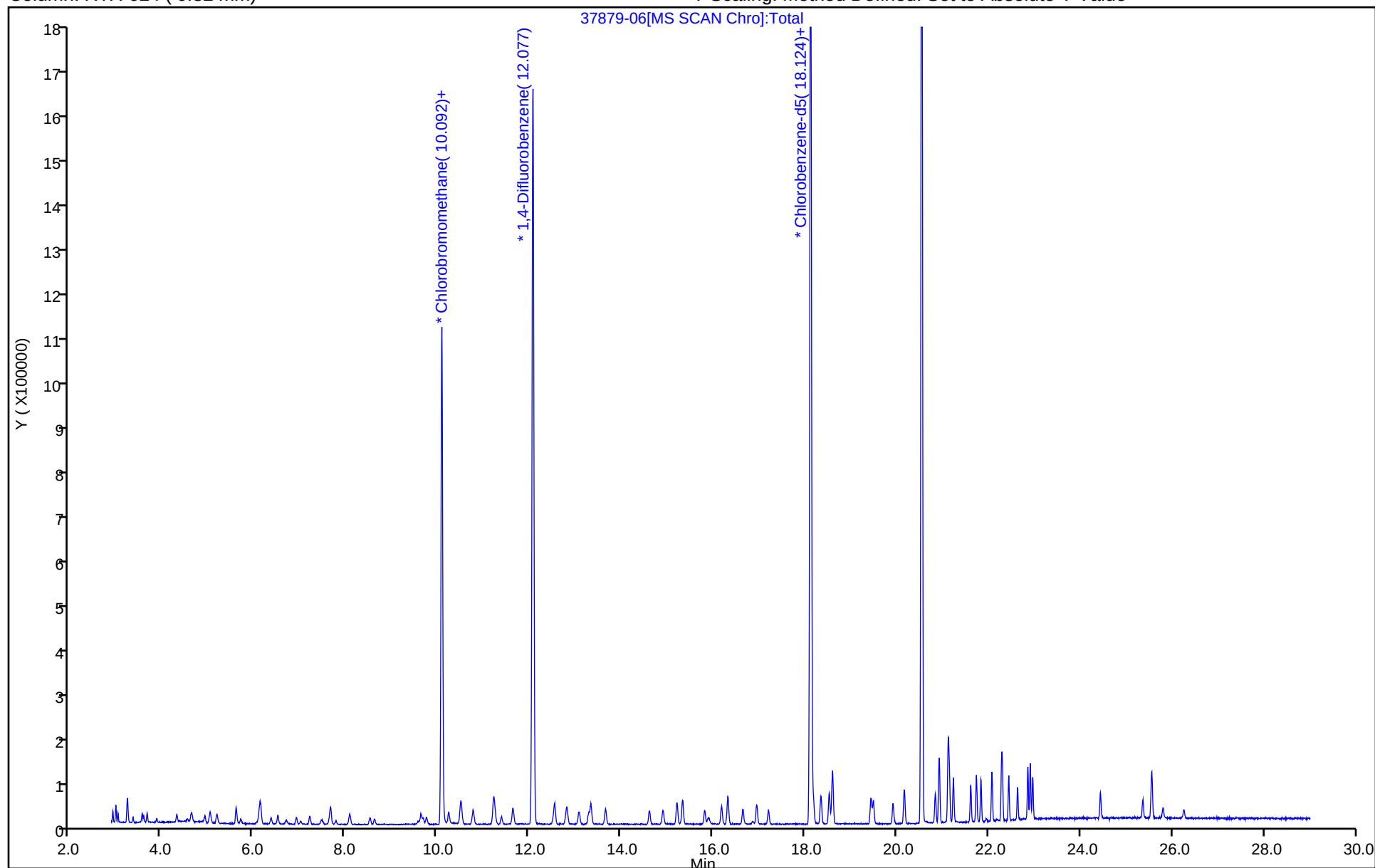
ALS Bottle#: 6

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-07.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 22-Sep-2019 18:41:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 200.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0037879-007
 Misc. Info.: ic-04
 Operator ID: vtp Instrument ID: CHC.i
 Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1
 Method: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\TO15_MasterMethod_(v1)_CHC.i.m
 Limit Group: AI_TO15_ICAL
 Last Update: 24-Sep-2019 09:18:25 Calib Date: 23-Sep-2019 10:48:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX0311

First Level Reviewer: desjardinsb

Date: 23-Sep-2019 09:19:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	2.925	2.930	-0.005	98	84697	4.99	4.91	
2 Dichlorodifluoromethane	85	2.989	2.994	-0.005	99	297932	4.99	5.29	
3 Chlorodifluoromethane	51	3.037	3.042	-0.005	97	175257	4.99	5.44	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.239	3.250	-0.011	93	308854	4.99	4.96	
5 Chloromethane	50	3.362	3.373	-0.011	99	101755	4.99	5.31	
6 Butane	43	3.560	3.565	-0.005	98	167090	4.99	5.49	
7 Vinyl chloride	62	3.597	3.597	0.000	98	111178	4.99	4.63	
8 Butadiene	54	3.672	3.677	-0.005	96	80722	4.99	4.90	
9 Bromomethane	94	4.317	4.323	-0.006	99	107175	4.99	4.74	
10 Chloroethane	64	4.547	4.552	-0.005	99	49348	4.99	5.09	
11 2-Methylbutane	43	4.643	4.648	-0.005	94	115155	4.99	5.06	
13 Vinyl bromide	106	4.931	4.931	0.000	98	102439	4.99	4.86	
14 Trichlorofluoromethane	101	5.043	5.054	-0.011	98	287127	4.99	5.11	
15 Pentane	43	5.193	5.193	0.000	98	181643	4.99	5.03	
16 Ethanol	45	5.604	5.609	-0.005	97	93320	10.0	11.7	
17 Ethyl ether	59	5.705	5.700	0.005	96	65015	4.99	5.03	
18 Acrolein	56	6.052	6.047	0.005	96	35721	4.99	5.33	
19 1,1,2-Trichloro-1,2,2-trif	101	6.121	6.121	0.000	97	251472	4.99	5.04	
20 1,1-Dichloroethene	96	6.148	6.148	0.000	99	114982	4.99	4.91	
21 Acetone	43	6.356	6.378	-0.022	99	160430	4.99	5.67	
22 Carbon disulfide	76	6.516	6.527	-0.011	99	321905	4.99	5.10	
23 Isopropyl alcohol	45	6.682	6.719	-0.037	100	158079	4.99	5.44	
24 3-Chloro-1-propene	41	6.922	6.922	0.000	96	136229	4.99	5.46	
25 Acetonitrile	41	7.007	7.007	0.000	100	74999	4.99	5.48	
27 Methylene Chloride	49	7.215	7.221	-0.006	94	126187	4.99	5.35	
28 2-Methyl-2-propanol	59	7.456	7.456	0.000	94	211008	4.99	5.37	
29 Methyl tert-butyl ether	73	7.642	7.669	-0.027	97	297964	4.99	5.12	
30 trans-1,2-Dichloroethene	61	7.669	7.675	-0.005	98	160750	4.99	5.15	
31 Acrylonitrile	53	7.776	7.781	-0.005	95	68768	4.99	5.17	
32 Hexane	57	8.085	8.085	0.000	93	151544	4.99	5.05	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63	8.523	8.539	-0.016	99	203618	4.99	4.90	
34 Vinyl acetate	43	8.619	8.619	0.000	100	242698	4.99	5.29	
35 cis-1,2-Dichloroethene	96	9.638	9.644	-0.006	92	130865	4.99	4.84	
36 2-Butanone (MEK)	72	9.676	9.697	-0.021	100	56252	4.99	5.16	
37 Ethyl acetate	88	9.750	9.750	0.000	99	9201	4.99	4.91	
* 38 Chlorobromomethane	128	10.092	10.092	0.000	85	443176	10.0	10.0	
39 Tetrahydrofuran	42	10.119	10.108	0.011	95	128111	4.99	5.47	
S 40 1,2-Dichloroethene, Total	61				0		9.99	10.0	
41 Chloroform	83	10.241	10.241	0.000	95	274879	4.99	5.12	
42 Cyclohexane	84	10.503	10.508	-0.005	96	159095	4.99	4.97	
43 1,1,1-Trichloroethane	97	10.514	10.514	0.000	94	286678	4.99	5.12	
44 Carbon tetrachloride	117	10.775	10.770	0.005	98	308399	4.99	5.23	
45 Benzene	78	11.218	11.224	-0.006	96	387874	4.99	4.97	
46 Isooctane	57	11.234	11.234	0.000	99	612662	4.99	5.10	
47 1,2-Dichloroethane	62	11.389	11.389	0.000	97	181650	4.99	5.43	
48 n-Heptane	43	11.645	11.645	0.000	95	247279	4.99	5.14	
* 49 1,4-Difluorobenzene	114	12.077	12.077	0.000	94	2081365	10.0	10.0	
50 n-Butanol	56	12.494	12.494	0.000	90	80715	4.99	5.37	
51 Trichloroethene	95	12.547	12.558	-0.011	98	196215	4.99	5.02	
53 1,2-Dichloropropane	63	13.081	13.086	-0.005	91	170112	4.99	5.11	
55 Methyl methacrylate	69	13.283	13.289	-0.006	94	152768	4.99	5.08	
56 1,4-Dioxane	88	13.326	13.374	-0.048	97	90225	4.99	5.25	
57 Dibromomethane	174	13.342	13.342	0.000	95	205227	4.99	4.83	
58 Dichlorobromomethane	83	13.657	13.662	-0.005	98	332617	4.99	5.11	
60 cis-1,3-Dichloropropene	75	14.612	14.607	0.005	92	273100	4.99	5.04	
61 4-Methyl-2-pentanone (MIBK)	43	14.901	14.927	-0.026	98	365791	4.99	5.39	
62 Toluene	92	15.215	15.210	0.005	93	309494	4.99	4.97	
63 n-Octane	43	15.333	15.328	0.005	95	394377	4.99	5.14	
64 trans-1,3-Dichloropropene	75	15.819	15.819	-0.001	97	255793	4.99	5.11	
65 1,1,2-Trichloroethane	83	16.181	16.187	-0.006	96	165084	4.99	5.03	
66 Tetrachloroethene	166	16.326	16.326	0.000	97	294144	4.99	4.77	
67 2-Hexanone	43	16.640	16.662	-0.022	93	346090	4.99	5.44	
68 Chlorodibromomethane	129	16.955	16.945	0.010	98	365026	4.99	4.98	
69 Ethylene Dibromide	107	17.211	17.206	0.005	99	303065	4.99	4.92	
* 70 Chlorobenzene-d5	117	18.124	18.124	0.000	86	1969214	10.0	10.0	
71 Chlorobenzene	112	18.183	18.178	0.005	96	448130	4.99	4.96	
72 Ethylbenzene	91	18.348	18.348	0.000	98	693829	4.99	4.98	
73 n-Nonane	57	18.530	18.535	-0.005	96	348855	4.99	5.22	
74 m-Xylene & p-Xylene	106	18.604	18.599	0.005	0	563171	9.99	10.1	
76 o-Xylene	106	19.437	19.442	-0.005	99	267001	4.99	4.97	
77 Styrene	104	19.490	19.501	-0.011	99	438437	4.99	5.08	
78 Bromoform	173	19.923	19.928	-0.005	98	380056	4.99	5.05	
S 79 Xylenes, Total	106				0		15.0	15.0	
80 Isopropylbenzene	105	20.168	20.163	0.005	97	793772	4.99	5.01	
81 1,1,2,2-Tetrachloroethane	83	20.841	20.846	-0.005	98	443730	4.99	5.03	
82 N-Propylbenzene	91	20.926	20.921	0.005	98	968444	4.99	5.08	
83 1,2,3-Trichloropropane	75	20.931	20.926	0.005	97	357782	4.99	5.32	
85 2-Chlorotoluene	91	21.123	21.118	0.005	89	685849	4.99	5.19	
84 4-Ethyltoluene	105	21.123	21.124	-0.001	90	823878	4.99	5.09	
86 n-Decane	57	21.150	21.150	0.000	89	472092	4.99	5.41	
87 1,3,5-Trimethylbenzene	105	21.235	21.236	-0.001	94	687208	4.99	5.20	
88 Alpha Methyl Styrene	118	21.614	21.620	-0.006	90	371969	4.99	5.17	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
89 tert-Butylbenzene	119	21.737	21.743	-0.006	95	699520	4.99	5.27	
90 1,2,4-Trimethylbenzene	105	21.839	21.833	0.006	97	715334	4.99	5.34	
91 sec-Butylbenzene	105	22.073	22.079	-0.006	99	1086227	4.99	5.36	
92 4-Isopropyltoluene	119	22.282	22.282	0.000	98	937883	4.99	5.35	
93 1,3-Dichlorobenzene	146	22.303	22.308	-0.005	97	563983	4.99	5.30	
94 1,4-Dichlorobenzene	146	22.442	22.447	-0.005	97	558791	4.99	5.31	
95 Benzyl chloride	91	22.634	22.634	0.000	99	695180	4.99	5.55	
96 n-Butylbenzene	91	22.858	22.863	-0.005	98	892230	4.99	5.53	
97 Undecane	57	22.911	22.906	0.005	96	557714	4.99	5.63	
98 1,2-Dichlorobenzene	146	22.965	22.970	-0.005	98	544461	4.99	5.38	
99 Dodecane	57	24.438	24.438	0.000	97	421215	4.99	5.45	
100 1,2,4-Trichlorobenzene	180	25.361	25.382	-0.021	94	342851	4.99	4.65	
101 Hexachlorobutadiene	225	25.558	25.553	0.005	98	398481	4.99	5.03	
102 Naphthalene	128	25.799	25.809	-0.010	99	598086	4.99	4.42	
103 1,2,3-Trichlorobenzene	180	26.252	26.258	-0.006	96	230039	4.99	4.24	

Reagents:

ATTO15CAL3w_00216

Amount Added: 200.00

Units: mL

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

Report Date: 24-Sep-2019 09:18:26

Chrom Revision: 2.3 17-Sep-2019 16:19:08

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-07.D

Injection Date: 22-Sep-2019 18:41:30

Instrument ID: CHC.i

Operator ID: vtp

Lims ID: ic

Worklist Smp#: 7

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

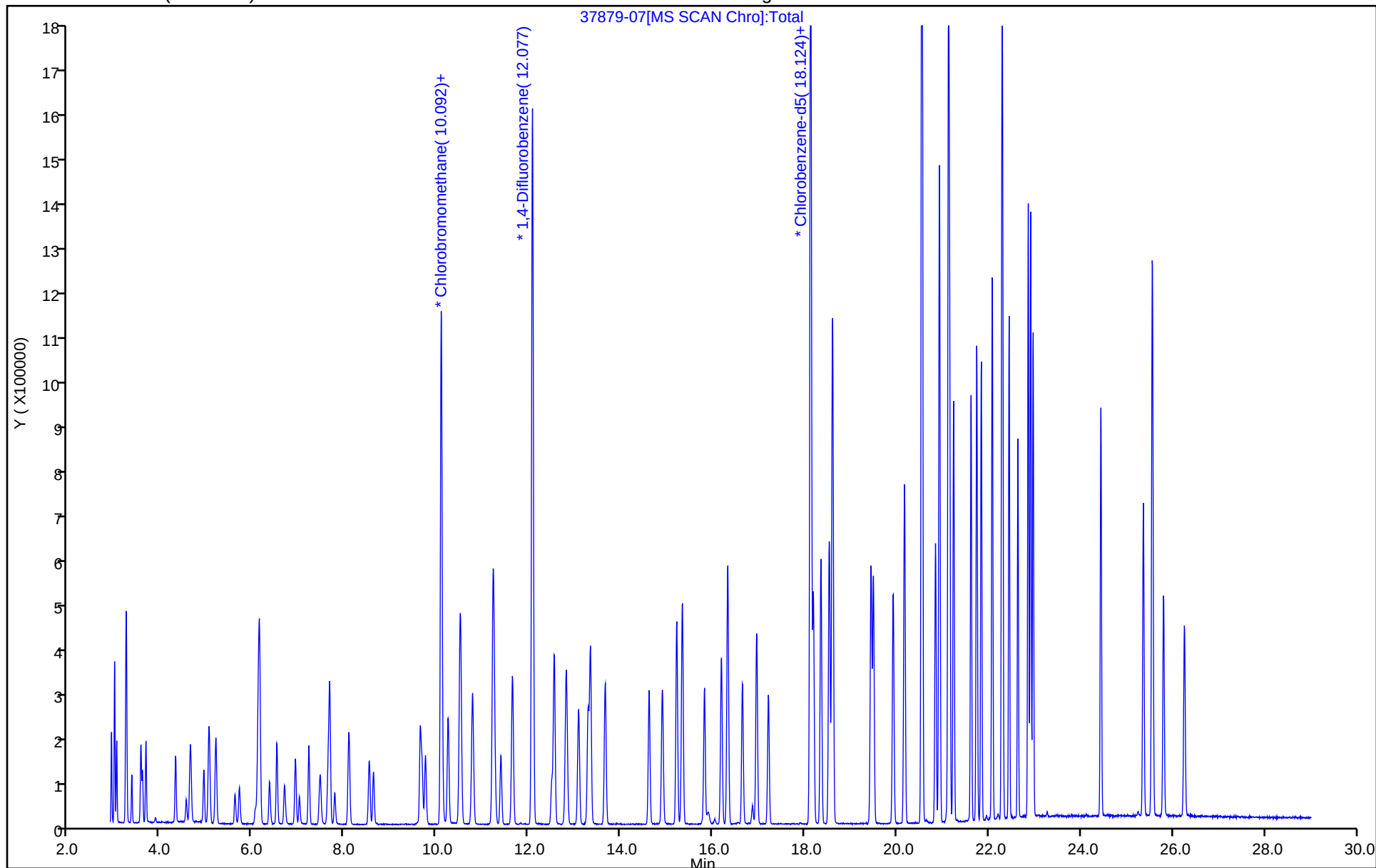
ALS Bottle#: 7

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-08.D
 Lims ID: icis
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 22-Sep-2019 19:46:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 200.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0037879-008
 Misc. Info.: icis
 Operator ID: vtp Instrument ID: CHC.i
 Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1
 Method: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\TO15_MasterMethod_(v1)_CHC.i.m
 Limit Group: AI_TO15_ICAL
 Last Update: 24-Sep-2019 09:18:28 Calib Date: 23-Sep-2019 10:48:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX0311

First Level Reviewer: desjardinsb

Date: 23-Sep-2019 09:12:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	2.925	2.925	0.000	99	166166	10.0	9.15	
2 Dichlorodifluoromethane	85	2.994	2.994	0.000	99	599408	10.0	10.1	
3 Chlorodifluoromethane	51	3.037	3.037	0.000	97	350608	10.0	10.3	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.245	3.245	0.000	98	626969	10.0	9.56	
5 Chloromethane	50	3.368	3.368	0.000	99	206498	10.0	10.2	
6 Butane	43	3.565	3.565	0.000	98	331899	10.0	10.4	
7 Vinyl chloride	62	3.597	3.597	0.000	98	228432	10.0	9.04	
8 Butadiene	54	3.672	3.672	0.000	96	159947	10.0	9.22	
9 Bromomethane	94	4.318	4.318	0.000	99	217579	10.0	9.14	
10 Chloroethane	64	4.552	4.552	0.000	99	99437	10.0	9.74	
11 2-Methylbutane	43	4.638	4.638	0.000	92	230722	10.0	9.62	
13 Vinyl bromide	106	4.931	4.931	0.000	99	209458	10.0	9.43	
14 Trichlorofluoromethane	101	5.049	5.049	0.000	99	570165	10.0	9.63	
15 Pentane	43	5.193	5.193	0.000	98	363170	10.0	9.55	
16 Ethanol	45	5.609	5.609	0.000	99	128060	15.0	15.3	
17 Ethyl ether	59	5.700	5.700	0.000	93	130294	10.0	9.57	
18 Acrolein	56	6.047	6.047	0.000	95	69442	10.0	9.84	
19 1,1,2-Trichloro-1,2,2-trif	101	6.121	6.121	0.000	97	502053	10.0	9.55	
20 1,1-Dichloroethene	96	6.148	6.148	0.000	98	230879	10.0	9.36	
21 Acetone	43	6.356	6.356	0.000	98	311342	10.0	10.5	
22 Carbon disulfide	76	6.522	6.522	0.000	99	646744	10.0	9.72	
23 Isopropyl alcohol	45	6.687	6.687	0.000	100	320511	10.0	10.5	
24 3-Chloro-1-propene	41	6.922	6.922	0.000	97	270310	10.0	10.3	
25 Acetonitrile	41	7.007	7.007	0.000	99	148862	10.0	10.3	
27 Methylene Chloride	49	7.215	7.215	0.000	92	246477	10.0	9.92	
28 2-Methyl-2-propanol	59	7.456	7.456	0.000	94	424487	10.0	10.3	
29 Methyl tert-butyl ether	73	7.642	7.642	0.000	97	597370	10.0	9.74	
30 trans-1,2-Dichloroethene	61	7.669	7.669	0.000	98	326484	10.0	9.93	
31 Acrylonitrile	53	7.781	7.781	0.000	96	138975	10.0	9.92	
32 Hexane	57	8.085	8.085	0.000	93	304801	10.0	9.63	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63	8.528	8.528	0.000	100	402722	10.0	9.20	
34 Vinyl acetate	43	8.619	8.619	0.000	100	486163	10.0	10.1	
35 cis-1,2-Dichloroethene	96	9.638	9.638	0.000	92	263778	10.0	9.26	
36 2-Butanone (MEK)	72	9.670	9.670	0.000	100	110799	10.0	9.64	
37 Ethyl acetate	88	9.750	9.750	0.000	100	19092	10.0	9.68	
* 38 Chlorobromomethane	128	10.092	10.092	0.000	87	466809	10.0	10.0	
39 Tetrahydrofuran	42	10.108	10.108	0.000	96	250342	10.0	10.1	
S 40 1,2-Dichloroethene, Total	61				0		20.0	19.2	
41 Chloroform	83	10.241	10.241	0.000	95	555103	10.0	9.82	
42 Cyclohexane	84	10.508	10.508	0.000	97	327513	10.0	9.68	
43 1,1,1-Trichloroethane	97	10.514	10.514	0.000	95	585444	10.0	9.89	
44 Carbon tetrachloride	117	10.775	10.775	0.000	97	636882	10.0	10.2	
45 Benzene	78	11.218	11.218	0.000	96	793194	10.0	9.62	
46 Isooctane	57	11.234	11.234	0.000	99	1238391	10.0	9.75	
47 1,2-Dichloroethane	62	11.389	11.389	0.000	98	358743	10.0	10.1	
48 n-Heptane	43	11.645	11.645	0.000	95	491107	10.0	9.65	
* 49 1,4-Difluorobenzene	114	12.077	12.077	0.000	93	2199067	10.0	10.0	
50 n-Butanol	56	12.494	12.494	0.000	90	158122	10.0	9.95	
51 Trichloroethene	95	12.547	12.547	0.000	98	400915	10.0	9.71	
53 1,2-Dichloropropane	63	13.081	13.081	0.000	93	345369	10.0	9.83	
55 Methyl methacrylate	69	13.289	13.289	0.000	95	313433	10.0	9.86	
56 1,4-Dioxane	88	13.326	13.326	0.000	94	186231	10.0	10.3	
57 Dibromomethane	174	13.342	13.342	0.000	94	434901	10.0	9.69	
58 Dichlorobromomethane	83	13.662	13.662	0.000	98	678466	10.0	9.87	
60 cis-1,3-Dichloropropene	75	14.612	14.612	0.000	92	565388	10.0	9.88	
61 4-Methyl-2-pentanone (MIBK)	43	14.901	14.901	0.000	97	722296	10.0	10.1	
62 Toluene	92	15.215	15.215	0.000	93	650914	10.0	9.53	
63 n-Octane	43	15.338	15.338	0.000	94	789818	10.0	9.75	
64 trans-1,3-Dichloropropene	75	15.819	15.819	0.000	96	527939	10.0	9.98	
65 1,1,2-Trichloroethane	83	16.187	16.187	0.000	96	340611	10.0	9.47	
66 Tetrachloroethene	166	16.326	16.326	0.000	98	633833	10.0	9.37	
67 2-Hexanone	43	16.646	16.646	0.000	93	690364	10.0	9.90	
68 Chlorodibromomethane	129	16.950	16.950	0.000	98	808699	10.0	10.1	
69 Ethylene Dibromide	107	17.211	17.211	0.000	98	662630	10.0	9.82	
* 70 Chlorobenzene-d5	117	18.129	18.129	0.000	85	2158216	10.0	10.0	
71 Chlorobenzene	112	18.188	18.188	0.000	96	960042	10.0	9.70	
72 Ethylbenzene	91	18.348	18.348	0.000	98	1484863	10.0	9.72	
73 n-Nonane	57	18.535	18.535	0.000	92	722333	10.0	9.87	
74 m-Xylene & p-Xylene	106	18.604	18.604	0.000	0	1209924	20.0	19.7	
76 o-Xylene	106	19.442	19.442	0.000	99	587143	10.0	9.98	
77 Styrene	104	19.490	19.490	0.000	97	972503	10.0	10.3	
78 Bromoform	173	19.923	19.923	0.000	99	881918	10.0	10.7	
S 79 Xylenes, Total	106				0		30.0	29.7	
80 Isopropylbenzene	105	20.168	20.168	0.000	95	1771205	10.0	10.2	
81 1,1,2,2-Tetrachloroethane	83	20.841	20.841	0.000	98	970904	10.0	10.0	
82 N-Propylbenzene	91	20.926	20.926	0.000	99	2133184	10.0	10.2	
83 1,2,3-Trichloropropane	75	20.931	20.931	0.000	97	755316	10.0	10.2	
85 2-Chlorotoluene	91	21.123	21.123	0.000	95	1498993	10.0	10.3	
84 4-Ethyltoluene	105	21.123	21.123	0.000	98	1836931	10.0	10.4	
86 n-Decane	57	21.150	21.150	0.000	90	984844	10.0	10.3	
87 1,3,5-Trimethylbenzene	105	21.236	21.236	0.000	94	1507767	10.0	10.4	
88 Alpha Methyl Styrene	118	21.614	21.614	0.000	91	845614	10.0	10.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
89 tert-Butylbenzene	119	21.737	21.737	0.000	95	1546367	10.0	10.6	
90 1,2,4-Trimethylbenzene	105	21.839	21.839	0.000	97	1574136	10.0	10.7	
91 sec-Butylbenzene	105	22.073	22.073	0.000	99	2392199	10.0	10.8	
92 4-Isopropyltoluene	119	22.287	22.287	0.000	98	2099582	10.0	10.9	
93 1,3-Dichlorobenzene	146	22.303	22.303	0.000	95	1286282	10.0	11.0	
94 1,4-Dichlorobenzene	146	22.442	22.442	0.000	97	1270940	10.0	11.0	
95 Benzyl chloride	91	22.634	22.634	0.000	100	1496441	10.0	10.9	
96 n-Butylbenzene	91	22.858	22.858	0.000	98	1945434	10.0	11.0	
97 Undecane	57	22.911	22.911	0.000	95	1147309	10.0	10.6	
98 1,2-Dichlorobenzene	146	22.965	22.965	0.000	99	1234603	10.0	11.1	
99 Dodecane	57	24.438	24.438	0.000	97	951047	10.0	11.2	
100 1,2,4-Trichlorobenzene	180	25.361	25.361	0.000	94	932622	10.0	11.5	
101 Hexachlorobutadiene	225	25.558	25.558	0.000	97	990289	10.0	11.4	
102 Naphthalene	128	25.799	25.799	0.000	99	1725135	10.0	11.6	
103 1,2,3-Trichlorobenzene	180	26.258	26.258	0.000	96	689868	10.0	11.6	

Reagents:

ATTO15CAL4w_00730

Amount Added: 200.00

Units: mL

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

Report Date: 24-Sep-2019 09:18:30

Chrom Revision: 2.3 17-Sep-2019 16:19:08

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-08.D

Injection Date: 22-Sep-2019 19:46:30

Instrument ID: CHC.i

Operator ID: vtp

Lims ID: icis

Worklist Smp#: 8

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

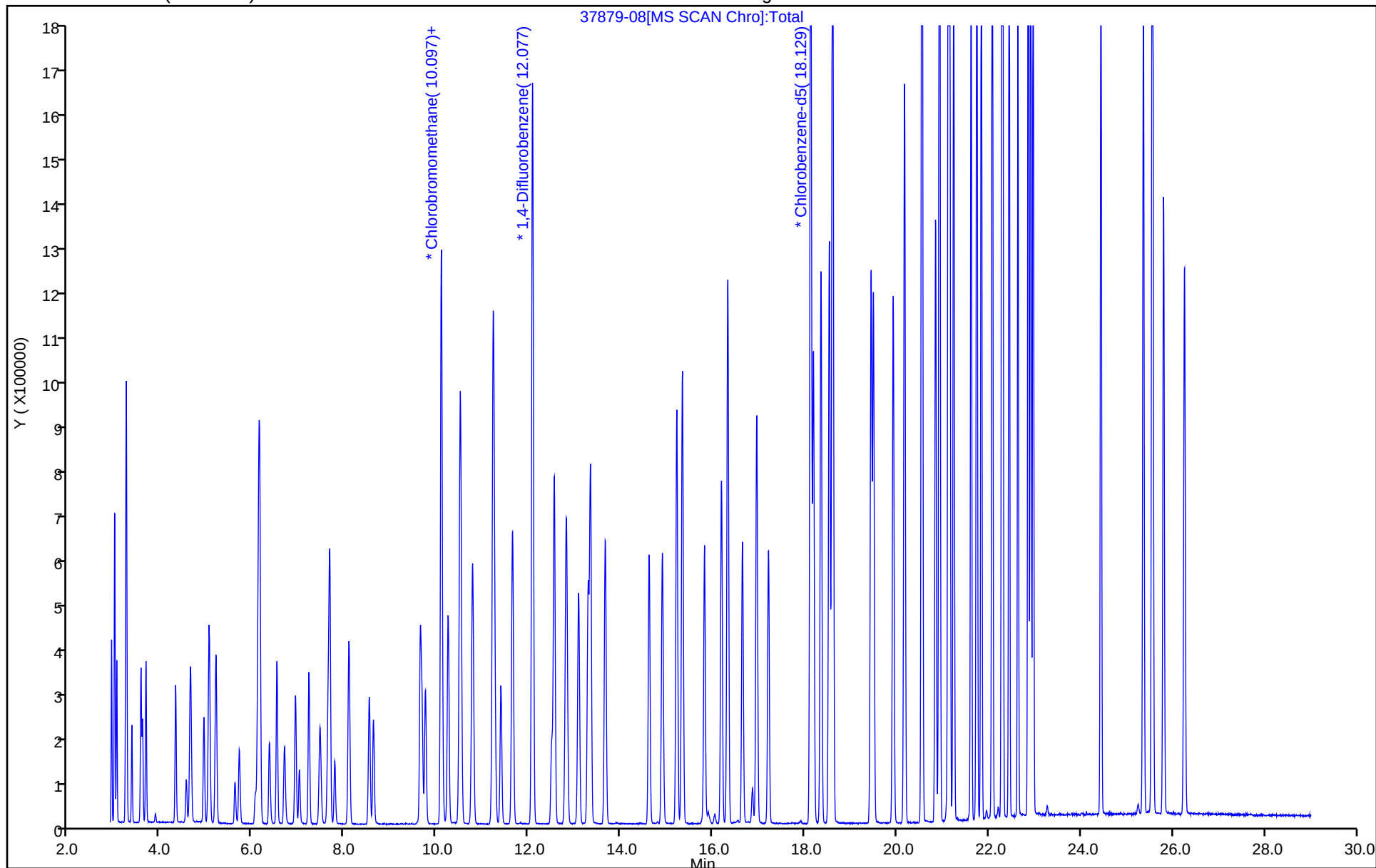
ALS Bottle#: 8

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-09.D

Lims ID: ic

Client ID:

Sample Type: IC

Calib Level: 6

Inject. Date: 22-Sep-2019 20:51:30

ALS Bottle#: 9

Worklist Smp#: 9

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Sample Info: 200-0037879-009

Misc. Info.: ic-06

Operator ID: vtp

Instrument ID: CHC.i

Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1

Method: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\TO15_MasterMethod_(v1)_CHC.i.m

Limit Group: AI_TO15_ICAL

Last Update: 24-Sep-2019 09:18:33

Calib Date: 23-Sep-2019 10:48:30

Integrator: RTE

ID Type: Deconvolution ID

Quant Method: Internal Standard

Quant By: Initial Calibration

Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D

Column 1 : RTX-624 (0.32 mm)

Det: MS SCAN

Process Host: CTX0311

First Level Reviewer: desjardinsb

Date: 23-Sep-2019 09:20:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	2.925	2.925	0.000	99	241349	15.0	11.7	
2 Dichlorodifluoromethane	85	2.994	2.994	0.000	99	1005009	15.0	14.9	
3 Chlorodifluoromethane	51	3.037	3.037	0.000	97	538625	15.0	14.0	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.245	3.245	0.000	95	1090081	15.0	14.6	
5 Chloromethane	50	3.368	3.368	0.000	99	316819	15.0	13.8	
6 Butane	43	3.565	3.565	0.000	98	489234	15.0	13.4	
7 Vinyl chloride	62	3.597	3.597	0.000	98	378776	15.0	13.2	
8 Butadiene	54	3.672	3.672	0.000	96	255497	15.0	13.0	
9 Bromomethane	94	4.318	4.318	0.000	99	382440	15.0	14.1	
10 Chloroethane	64	4.552	4.552	0.000	100	161797	15.0	14.0	
11 2-Methylbutane	43	4.638	4.638	0.000	92	345947	15.0	12.7	
13 Vinyl bromide	106	4.931	4.931	0.000	98	354202	15.0	14.0	
14 Trichlorofluoromethane	101	5.049	5.049	0.000	98	956281	15.0	14.2	
15 Pentane	43	5.198	5.193	0.005	98	544956	15.0	12.6	
16 Ethanol	45	5.609	5.609	0.000	99	158636	20.0	16.7	
17 Ethyl ether	59	5.705	5.700	0.005	95	206962	15.0	13.4	
18 Acrolein	56	6.047	6.047	0.000	96	107230	15.0	13.4	
19 1,1,2-Trichloro-1,2,2-trif	101	6.127	6.121	0.006	97	843626	15.0	14.1	
20 1,1-Dichloroethene	96	6.148	6.148	0.000	97	389516	15.0	13.9	
21 Acetone	43	6.356	6.356	0.000	98	456614	15.0	13.5	
22 Carbon disulfide	76	6.522	6.522	0.000	98	1054727	15.0	14.0	
23 Isopropyl alcohol	45	6.682	6.687	-0.005	100	465025	15.0	13.4	
24 3-Chloro-1-propene	41	6.927	6.922	0.005	96	381399	15.0	12.8	
25 Acetonitrile	41	7.007	7.007	0.000	99	209994	15.0	12.8	
27 Methylene Chloride	49	7.216	7.215	0.001	89	373544	15.0	13.2	
28 2-Methyl-2-propanol	59	7.456	7.456	0.000	93	657808	15.0	14.0	
29 Methyl tert-butyl ether	73	7.642	7.642	0.000	96	963667	15.0	13.8	
30 trans-1,2-Dichloroethene	61	7.675	7.669	0.006	96	509652	15.0	13.7	
31 Acrylonitrile	53	7.781	7.781	0.000	94	214642	15.0	13.5	
32 Hexane	57	8.085	8.085	0.000	93	473653	15.0	13.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63	8.534	8.528	0.006	99	631952	15.0	12.7	
34 Vinyl acetate	43	8.619	8.619	0.000	100	722997	15.0	13.2	
35 cis-1,2-Dichloroethene	96	9.639	9.638	0.000	90	442911	15.0	13.7	
36 2-Butanone (MEK)	72	9.676	9.670	0.006	99	182053	15.0	14.0	
37 Ethyl acetate	88	9.751	9.750	0.001	100	33523	15.0	15.0	
* 38 Chlorobromomethane	128	10.097	10.092	0.005	79	530121	10.0	10.0	
39 Tetrahydrofuran	42	10.113	10.108	0.005	90	365212	15.0	13.0	
S 40 1,2-Dichloroethene, Total	61				0		30.0	27.4	
41 Chloroform	83	10.247	10.241	0.006	95	898057	15.0	14.0	
42 Cyclohexane	84	10.508	10.508	0.000	97	543919	15.0	14.1	
43 1,1,1-Trichloroethane	97	10.519	10.514	0.005	94	961309	15.0	14.3	
44 Carbon tetrachloride	117	10.775	10.775	0.000	97	1052161	15.0	14.8	
45 Benzene	78	11.224	11.218	0.006	95	1303806	15.0	13.9	
46 Isooctane	57	11.234	11.234	0.000	99	1945161	15.0	13.5	
47 1,2-Dichloroethane	62	11.394	11.389	0.005	97	563572	15.0	14.0	
48 n-Heptane	43	11.640	11.645	-0.005	93	740332	15.0	12.8	
* 49 1,4-Difluorobenzene	114	12.077	12.077	0.000	93	2504427	10.0	10.0	
50 n-Butanol	56	12.494	12.494	0.000	89	245416	15.0	13.6	
51 Trichloroethene	95	12.552	12.547	0.005	97	669376	15.0	14.2	
53 1,2-Dichloropropane	63	13.081	13.081	0.000	93	559652	15.0	14.0	
55 Methyl methacrylate	69	13.289	13.289	0.000	96	521166	15.0	14.4	
57 Dibromomethane	174	13.342	13.342	0.000	93	774658	15.0	15.2	
56 1,4-Dioxane	88	13.326	13.326	0.000	92	302730	15.0	14.6	
58 Dichlorobromomethane	83	13.663	13.662	0.001	98	1124901	15.0	14.4	
60 cis-1,3-Dichloropropene	75	14.612	14.612	0.000	90	940630	15.0	14.4	
61 4-Methyl-2-pentanone (MIBK)	43	14.901	14.901	0.000	96	1115088	15.0	13.6	
62 Toluene	92	15.216	15.215	0.001	94	1116870	15.0	14.1	
63 n-Octane	43	15.338	15.338	0.000	92	1218082	15.0	13.2	
64 trans-1,3-Dichloropropene	75	15.819	15.819	0.000	95	876709	15.0	14.6	
65 1,1,2-Trichloroethane	83	16.187	16.187	0.000	95	581508	15.0	14.0	
66 Tetrachloroethene	166	16.326	16.326	0.000	97	1127144	15.0	14.4	
67 2-Hexanone	43	16.646	16.646	0.000	95	1059722	15.0	13.1	
68 Chlorodibromomethane	129	16.955	16.950	0.005	98	1382042	15.0	14.9	
69 Ethylene Dibromide	107	17.212	17.211	0.001	98	1151964	15.0	14.8	
* 70 Chlorobenzene-d5	117	18.130	18.129	0.001	83	2494260	10.0	10.0	
71 Chlorobenzene	112	18.188	18.188	0.000	98	1652719	15.0	14.4	
72 Ethylbenzene	91	18.348	18.348	0.000	97	2517413	15.0	14.3	
73 n-Nonane	57	18.530	18.535	-0.005	90	1162232	15.0	13.7	
74 m-Xylene & p-Xylene	106	18.605	18.604	0.000	0	2077654	30.0	29.3	
76 o-Xylene	106	19.442	19.442	0.000	99	1007476	15.0	14.8	
77 Styrene	104	19.490	19.490	0.000	96	1663629	15.0	15.2	
78 Bromoform	173	19.923	19.923	0.000	100	1529523	15.0	16.0	
S 79 Xylenes, Total	106				0		45.0	44.1	
80 Isopropylbenzene	105	20.168	20.168	0.000	95	3011064	15.0	15.0	
81 1,1,2,2-Tetrachloroethane	83	20.841	20.841	0.000	98	1608063	15.0	14.4	
82 N-Propylbenzene	91	20.926	20.926	0.000	99	3559645	15.0	14.7	
83 1,2,3-Trichloropropane	75	20.931	20.931	0.000	96	1228117	15.0	14.4	
85 2-Chlorotoluene	91	21.124	21.123	0.001	88	2480849	15.0	14.8	
84 4-Ethyltoluene	105	21.124	21.123	0.001	93	3082800	15.0	15.1	
86 n-Decane	57	21.150	21.150	0.000	91	1531060	15.0	13.9	
87 1,3,5-Trimethylbenzene	105	21.236	21.236	0.000	94	2535419	15.0	15.1	
88 Alpha Methyl Styrene	118	21.615	21.614	0.000	92	1444323	15.0	15.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
89 tert-Butylbenzene	119	21.737	21.737	0.000	96	2591666	15.0	15.4	
90 1,2,4-Trimethylbenzene	105	21.839	21.839	0.000	96	2616316	15.0	15.4	
91 sec-Butylbenzene	105	22.079	22.073	0.006	99	3965263	15.0	15.4	
92 4-Isopropyltoluene	119	22.287	22.287	0.000	98	3488886	15.0	15.7	
93 1,3-Dichlorobenzene	146	22.303	22.303	0.000	94	2162780	15.0	16.0	
94 1,4-Dichlorobenzene	146	22.442	22.442	0.000	97	2159745	15.0	16.2	
95 Benzyl chloride	91	22.634	22.634	0.000	100	2420032	15.0	15.2	
96 n-Butylbenzene	91	22.858	22.858	0.000	98	3140342	15.0	15.4	
97 Undecane	57	22.911	22.911	0.000	93	1762972	15.0	14.1	
98 1,2-Dichlorobenzene	146	22.965	22.965	0.000	99	2083418	15.0	16.3	
99 Dodecane	57	24.438	24.438	0.000	97	1515301	15.0	15.5	
100 1,2,4-Trichlorobenzene	180	25.361	25.361	0.000	93	1708109	15.0	18.3	
101 Hexachlorobutadiene	225	25.558	25.558	0.000	96	1735965	15.0	17.3	
102 Naphthalene	128	25.804	25.799	0.005	99	3159810	15.0	18.4	
103 1,2,3-Trichlorobenzene	180	26.258	26.258	0.000	95	1315535	15.0	19.1	

Reagents:

ATTO15CAL5w_00088

Amount Added: 200.00

Units: mL

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

Report Date: 24-Sep-2019 09:18:34

Chrom Revision: 2.3 17-Sep-2019 16:19:08

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-09.D

Injection Date: 22-Sep-2019 20:51:30

Instrument ID: CHC.i

Operator ID: vtp

Lims ID: ic

Worklist Smp#: 9

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

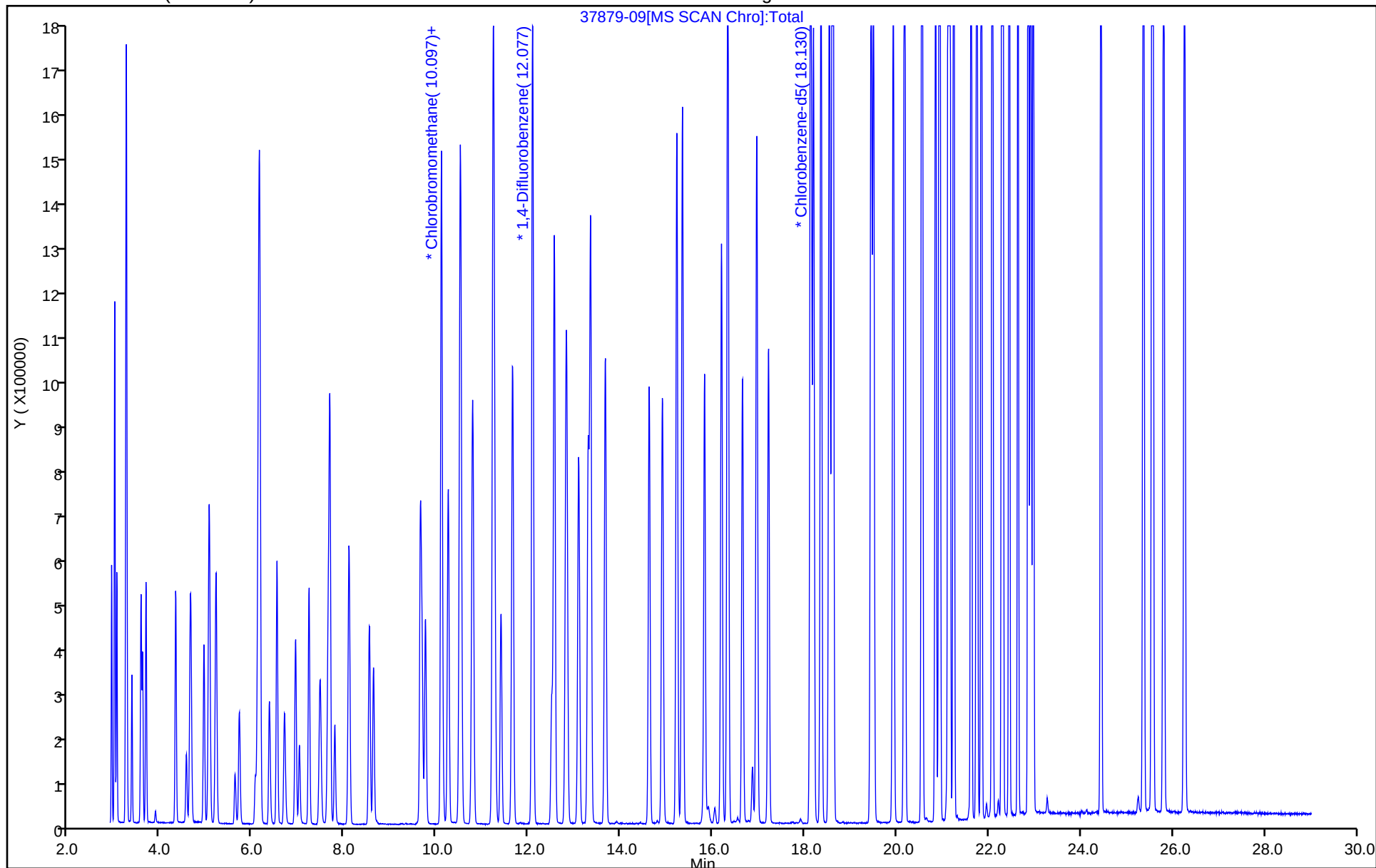
ALS Bottle#: 9

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-19.D

Lims ID: ic

Client ID:

Sample Type: IC

Calib Level: 8

Inject. Date: 23-Sep-2019 09:42:30

ALS Bottle#: 19

Worklist Smp#: 19

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Sample Info: 200-0037879-019

Misc. Info.: ic-08

Operator ID: vtp

Instrument ID: CHC.i

Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1

Method: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\TO15_MasterMethod_(v1)_CHC.i.m

Limit Group: AI_TO15_ICAL

Last Update: 24-Sep-2019 09:18:37

Calib Date: 23-Sep-2019 10:48:30

Integrator: RTE

ID Type: Deconvolution ID

Quant Method: Internal Standard

Quant By: Initial Calibration

Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D

Column 1 : RTX-624 (0.32 mm)

Det: MS SCAN

Process Host: CTX0311

First Level Reviewer: guazzonig

Date: 23-Sep-2019 10:29:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	2.930	2.925	0.005	99	711945	40.0	30.7	
2 Dichlorodifluoromethane	85	2.994	2.994	0.000	99	2846008	40.0	37.6	
3 Chlorodifluoromethane	51	3.042	3.037	0.005	97	1575706	40.0	36.4	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.245	3.245	0.000	98	3189872	40.0	38.1	
5 Chloromethane	50	3.368	3.368	0.000	99	957745	40.0	37.2	
6 Butane	43	3.565	3.565	0.000	98	1451709	40.0	35.5	
7 Vinyl chloride	62	3.602	3.597	0.005	98	1148701	40.0	35.6	
8 Butadiene	54	3.677	3.672	0.005	95	783105	40.0	35.4	
9 Bromomethane	94	4.323	4.318	0.005	99	1184790	40.0	39.0	
10 Chloroethane	64	4.552	4.552	0.000	100	513650	40.0	39.4	
11 2-Methylbutane	43	4.643	4.638	0.005	93	1103498	40.0	36.1	
13 Vinyl bromide	106	4.937	4.931	0.006	99	1119210	40.0	39.5	
14 Trichlorofluoromethane	101	5.049	5.049	0.000	98	2838793	40.0	37.6	
15 Pentane	43	5.198	5.193	0.005	97	1882010	40.0	38.8	
16 Ethanol	45	5.620	5.609	0.011	98	969662	100.0	90.6	
17 Ethyl ether	59	5.705	5.700	0.005	94	697192	40.0	40.1	
18 Acrolein	56	6.052	6.047	0.005	96	385223	40.0	42.8	
19 1,1,2-Trichloro-1,2,2-trif	101	6.127	6.121	0.006	97	2574188	40.0	38.4	
20 1,1-Dichloroethene	96	6.148	6.148	0.000	98	1201242	40.0	38.2	
21 Acetone	43	6.356	6.356	0.000	98	1528117	40.0	40.2	
22 Carbon disulfide	76	6.522	6.522	0.000	99	3415277	40.0	40.2	
23 Isopropyl alcohol	45	6.693	6.687	0.006	100	1568605	40.0	40.2	
24 3-Chloro-1-propene	41	6.927	6.922	0.005	95	1372199	40.0	40.9	
25 Acetonitrile	41	7.013	7.007	0.006	99	765195	40.0	41.6	
27 Methylene Chloride	49	7.216	7.215	0.001	91	1243734	40.0	39.2	
28 2-Methyl-2-propanol	59	7.466	7.456	0.010	93	2114443	40.0	40.1	
29 Methyl tert-butyl ether	73	7.643	7.642	0.001	97	3094229	40.0	39.5	
30 trans-1,2-Dichloroethene	61	7.675	7.669	0.006	98	1695390	40.0	40.4	
31 Acrylonitrile	53	7.781	7.781	0.000	95	783059	40.0	43.8	
32 Hexane	57	8.091	8.085	0.006	94	1670307	40.0	41.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63	8.528	8.528	0.000	100	2136543	40.0	38.2	
34 Vinyl acetate	43	8.619	8.619	0.000	100	2714234	40.0	44.0	
35 cis-1,2-Dichloroethene	96	9.639	9.638	0.001	92	1367804	40.0	37.6	
36 2-Butanone (MEK)	72	9.676	9.670	0.006	100	598616	40.0	40.8	
37 Ethyl acetate	88	9.751	9.750	0.001	100	103158	40.0	41.0	
* 38 Chlorobromomethane	128	10.092	10.092	0.000	88	595688	10.0	10.0	
39 Tetrahydrofuran	42	10.108	10.108	0.000	94	1369183	40.0	42.7	
S 40 1,2-Dichloroethene, Total	61				0		80.0	78.1	
41 Chloroform	83	10.247	10.241	0.006	95	2784509	40.0	38.6	
42 Cyclohexane	84	10.508	10.508	0.000	98	1729336	40.0	39.5	
43 1,1,1-Trichloroethane	97	10.514	10.514	0.000	94	2864108	40.0	37.4	
44 Carbon tetrachloride	117	10.775	10.775	0.000	97	3062467	40.0	37.9	
45 Benzene	78	11.218	11.218	0.000	95	4181336	40.0	39.1	
46 Isooctane	57	11.240	11.234	0.006	99	6547231	40.0	39.8	
47 1,2-Dichloroethane	62	11.389	11.389	0.000	90	1733514	40.0	37.8	
48 n-Heptane	43	11.640	11.645	-0.005	94	2585835	40.0	39.2	
* 49 1,4-Difluorobenzene	114	12.077	12.077	0.000	94	2849119	10.0	10.0	
50 n-Butanol	56	12.494	12.494	0.000	90	836458	40.0	40.6	
51 Trichloroethene	95	12.547	12.547	0.000	98	2032313	40.0	38.0	
53 1,2-Dichloropropane	63	13.081	13.081	0.000	93	1813876	40.0	39.8	
55 Methyl methacrylate	69	13.284	13.289	-0.005	95	1683498	40.0	40.9	
57 Dibromomethane	174	13.337	13.342	-0.005	95	2246146	40.0	38.6	
56 1,4-Dioxane	88	13.321	13.326	-0.005	93	909260	40.0	38.6	
58 Dichlorobromomethane	83	13.657	13.662	-0.005	98	3456757	40.0	38.8	
60 cis-1,3-Dichloropropene	75	14.613	14.612	0.001	91	2963804	40.0	40.0	
61 4-Methyl-2-pentanone (MIBK)	43	14.901	14.901	0.000	96	3717523	40.0	40.0	
62 Toluene	92	15.210	15.215	-0.005	94	3475122	40.0	38.0	
63 n-Octane	43	15.333	15.338	-0.005	92	4042559	40.0	38.5	
64 trans-1,3-Dichloropropene	75	15.813	15.819	-0.006	96	2743869	40.0	40.0	
65 1,1,2-Trichloroethane	83	16.182	16.187	-0.005	95	1808370	40.0	37.6	
66 Tetrachloroethene	166	16.320	16.326	-0.006	97	3375859	40.0	37.3	
67 2-Hexanone	43	16.641	16.646	-0.005	94	3574897	40.0	38.3	
68 Chlorodibromomethane	129	16.950	16.950	0.000	98	4246946	40.0	39.5	
69 Ethylene Dibromide	107	17.206	17.211	-0.005	98	3536652	40.0	39.2	
* 70 Chlorobenzene-d5	117	18.124	18.129	-0.005	85	2885743	10.0	10.0	
71 Chlorobenzene	112	18.183	18.188	-0.005	97	5053279	40.0	38.2	
72 Ethylbenzene	91	18.348	18.348	0.000	97	7754991	40.0	38.0	
73 n-Nonane	57	18.530	18.535	-0.005	91	3819694	40.0	39.0	
74 m-Xylene & p-Xylene	106	18.605	18.604	0.001	0	6455771	80.0	78.6	
76 o-Xylene	106	19.437	19.442	-0.005	99	3122328	40.0	39.7	
77 Styrene	104	19.490	19.490	0.000	96	5139209	40.0	40.7	
78 Bromoform	173	19.917	19.923	-0.006	99	4750520	40.0	43.1	
S 79 Xylenes, Total	106				0		120.0	118.3	
80 Isopropylbenzene	105	20.163	20.168	-0.005	95	9058129	40.0	39.0	
81 1,1,2,2-Tetrachloroethane	83	20.841	20.841	0.000	97	5000390	40.0	38.7	
82 N-Propylbenzene	91	20.926	20.926	0.000	100	10701350	40.0	38.3	
83 1,2,3-Trichloropropane	75	20.931	20.931	0.000	96	3748314	40.0	38.0	
85 2-Chlorotoluene	91	21.124	21.123	0.001	96	7452309	40.0	38.5	
84 4-Ethyltoluene	105	21.124	21.123	0.001	96	9304891	40.0	39.3	
86 n-Decane	57	21.150	21.150	0.000	91	4798992	40.0	37.6	
87 1,3,5-Trimethylbenzene	105	21.236	21.236	0.000	95	7550323	40.0	39.0	
88 Alpha Methyl Styrene	118	21.615	21.614	0.001	92	4351285	40.0	41.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
89 tert-Butylbenzene	119	21.737	21.737	0.000	96	7572857	40.0	38.9	
90 1,2,4-Trimethylbenzene	105	21.839	21.839	0.000	96	7677209	40.0	39.1	
91 sec-Butylbenzene	105	22.074	22.073	0.001	98	11358545	40.0	38.2	
92 4-Isopropyltoluene	119	22.282	22.287	-0.005	98	10055648	40.0	39.1	
93 1,3-Dichlorobenzene	146	22.303	22.303	0.000	95	6313654	40.0	40.5	
94 1,4-Dichlorobenzene	146	22.442	22.442	0.000	96	6178896	40.0	40.1	
95 Benzyl chloride	91	22.634	22.634	0.000	100	7250558	40.0	39.5	
96 n-Butylbenzene	91	22.858	22.858	0.000	98	8956558	40.0	37.9	
97 Undecane	57	22.906	22.911	-0.005	94	5421729	40.0	37.4	
98 1,2-Dichlorobenzene	146	22.965	22.965	0.000	98	5916707	40.0	39.9	
99 Dodecane	57	24.432	24.438	-0.006	97	4607229	40.0	40.7	
100 1,2,4-Trichlorobenzene	180	25.356	25.361	-0.005	94	5008700	40.0	46.3	
101 Hexachlorobutadiene	225	25.553	25.558	-0.005	96	5002169	40.0	43.1	
102 Naphthalene	128	25.799	25.799	0.000	99	9559715	40.0	48.2	
103 1,2,3-Trichlorobenzene	180	26.252	26.258	-0.006	95	3965832	40.0	49.9	

Reagents:

ATTO15CAL7w_00089

Amount Added: 200.00

Units: mL

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

Report Date: 24-Sep-2019 09:18:38

Chrom Revision: 2.3 17-Sep-2019 16:19:08

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-19.D

Injection Date: 23-Sep-2019 09:42:30

Instrument ID: CHC.i

Operator ID: vtp

Lims ID: ic

Worklist Smp#: 19

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

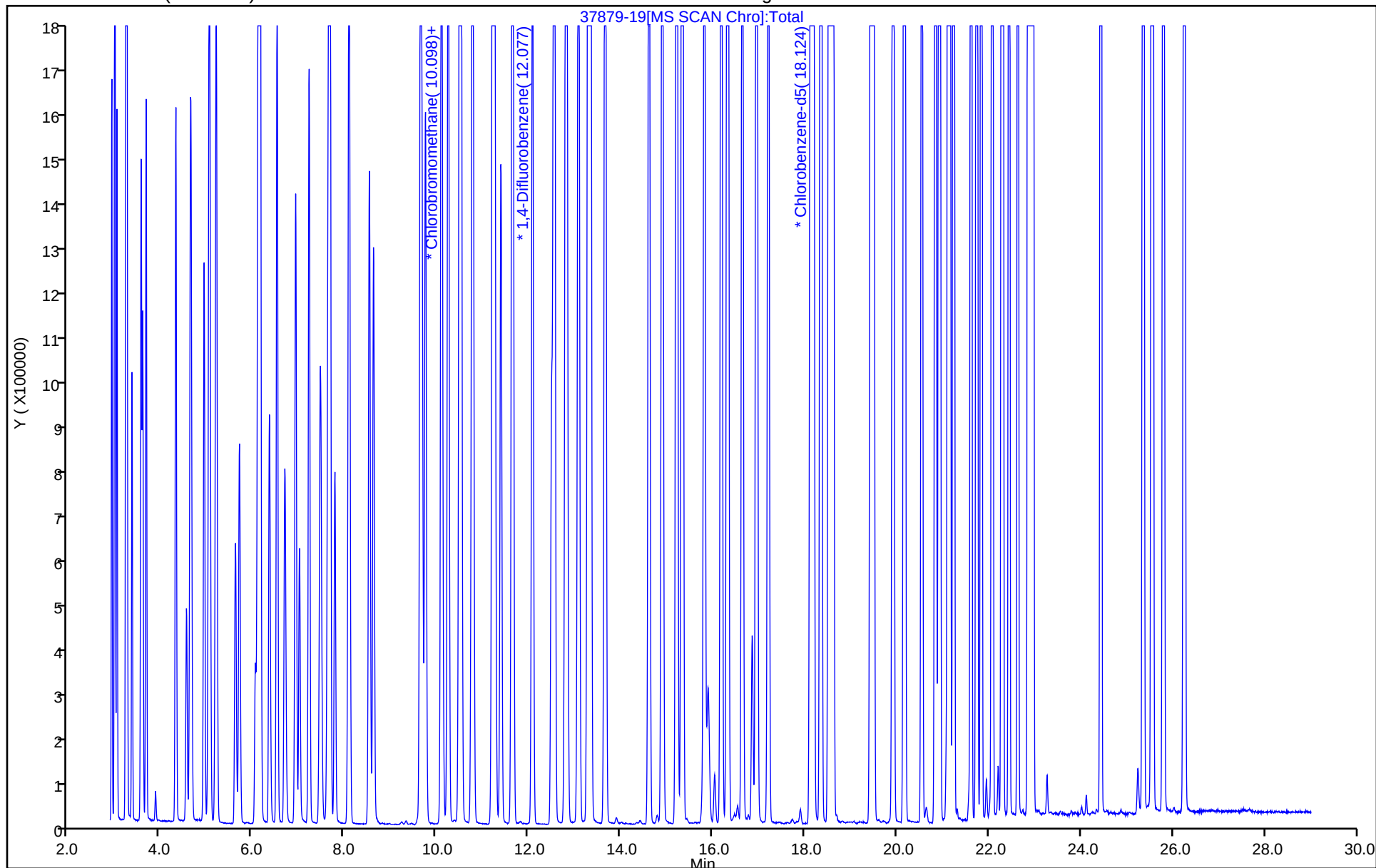
ALS Bottle#: 19

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D

Lims ID: ic

Client ID:

Sample Type: IC

Calib Level: 7

Inject. Date: 23-Sep-2019 10:48:30

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Sample Info: 200-0037879-020

Misc. Info.: ic-07

Operator ID: vtp

Instrument ID: CHC.i

Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1

Method: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\TO15_MasterMethod_(v1)_CHC.i.m

Limit Group: AI_TO15_ICAL

Last Update: 24-Sep-2019 09:18:41

Calib Date: 23-Sep-2019 10:48:30

Integrator: RTE

ID Type: Deconvolution ID

Quant Method: Internal Standard

Quant By: Initial Calibration

Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D

Column 1 : RTX-624 (0.32 mm)

Det: MS SCAN

Process Host: CTX0311

First Level Reviewer: guazzonig

Date: 23-Sep-2019 11:46:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	2.909	2.925	-0.016	98	30261	20.0	1.11	Ma
2 Dichlorodifluoromethane	85	2.983	2.994	-0.011	99	1613258	20.0	18.1	
3 Chlorodifluoromethane	51	3.026	3.037	-0.011	97	907497	20.0	17.8	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.234	3.245	-0.011	91	1873619	20.0	19.0	
5 Chloromethane	50	3.357	3.368	-0.011	99	577485	20.0	19.0	
6 Butane	43	3.554	3.565	-0.011	99	844696	20.0	17.5	
7 Vinyl chloride	62	3.592	3.597	-0.005	98	675664	20.0	17.8	
8 Butadiene	54	3.667	3.672	-0.005	95	451330	20.0	17.3	
9 Bromomethane	94	4.312	4.318	-0.006	99	720352	20.0	20.1	
10 Chloroethane	64	4.542	4.552	-0.010	100	308357	20.0	20.1	
11 2-Methylbutane	43	4.633	4.638	-0.005	93	616544	20.0	17.1	
13 Vinyl bromide	106	4.926	4.931	-0.005	100	665263	20.0	19.9	
14 Trichlorofluoromethane	101	5.038	5.049	-0.011	98	1616353	20.0	18.2	
15 Pentane	43	5.188	5.193	-0.005	97	1037578	20.0	18.2	
16 Ethanol	45	5.609	5.609	0.000	98	434272	40.0	34.4	
17 Ethyl ether	59	5.695	5.700	-0.005	94	395409	20.0	19.3	
18 Acrolein	56	6.047	6.047	0.000	95	209714	20.0	19.8	
19 1,1,2-Trichloro-1,2,2-trif	101	6.116	6.121	-0.005	97	1534361	20.0	19.4	
20 1,1-Dichloroethene	96	6.143	6.148	-0.005	96	711740	20.0	19.2	
21 Acetone	43	6.351	6.356	-0.005	97	818578	20.0	18.3	
22 Carbon disulfide	76	6.516	6.522	-0.006	98	1994875	20.0	20.0	
23 Isopropyl alcohol	45	6.682	6.687	-0.005	99	888720	20.0	19.3	
24 3-Chloro-1-propene	41	6.917	6.922	-0.005	94	725622	20.0	18.4	
25 Acetonitrile	41	7.002	7.007	-0.005	100	421972	20.0	19.5	
27 Methylene Chloride	49	7.210	7.215	-0.005	90	706185	20.0	18.9	
28 2-Methyl-2-propanol	59	7.456	7.456	0.000	93	1195027	20.0	19.2	
29 Methyl tert-butyl ether	73	7.637	7.642	-0.005	97	1751966	20.0	19.0	
30 trans-1,2-Dichloroethene	61	7.664	7.669	-0.005	96	937029	20.0	19.0	
31 Acrylonitrile	53	7.776	7.781	-0.005	95	423792	20.0	20.1	
32 Hexane	57	8.080	8.085	-0.005	92	920023	20.0	19.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63	8.523	8.528	-0.005	99	1177202	20.0	17.9	
34 Vinyl acetate	43	8.614	8.619	-0.005	100	1391745	20.0	19.1	
35 cis-1,2-Dichloroethene	96	9.633	9.638	-0.005	90	809354	20.0	18.9	
36 2-Butanone (MEK)	72	9.671	9.670	0.001	99	346034	20.0	20.0	
37 Ethyl acetate	88	9.740	9.750	-0.010	100	60915	20.0	20.5	
* 38 Chlorobromomethane	128	10.087	10.092	-0.005	90	701758	10.0	10.0	
39 Tetrahydrofuran	42	10.103	10.108	-0.005	97	712040	20.0	19.2	
S 40 1,2-Dichloroethene, Total	61				0		40.0	37.9	
41 Chloroform	83	10.236	10.241	-0.005	95	1565616	20.0	18.4	
42 Cyclohexane	84	10.498	10.508	-0.010	97	998655	20.0	19.7	
43 1,1,1-Trichloroethane	97	10.508	10.514	-0.006	94	1601121	20.0	18.0	
44 Carbon tetrachloride	117	10.770	10.775	-0.005	97	1735103	20.0	18.6	
45 Benzene	78	11.213	11.218	-0.005	95	2400150	20.0	19.4	
46 Isooctane	57	11.229	11.234	-0.005	100	3646886	20.0	19.1	
47 1,2-Dichloroethane	62	11.384	11.389	-0.005	97	933192	20.0	17.6	
48 n-Heptane	43	11.635	11.645	-0.010	92	1373934	20.0	18.0	
* 49 1,4-Difluorobenzene	114	12.072	12.077	-0.005	93	3300625	10.0	10.0	
50 n-Butanol	56	12.488	12.494	-0.006	87	480973	20.0	20.2	
51 Trichloroethene	95	12.547	12.547	0.000	97	1175737	20.0	19.0	
53 1,2-Dichloropropane	63	13.076	13.081	-0.005	95	1012719	20.0	19.2	
55 Methyl methacrylate	69	13.278	13.289	-0.011	97	944609	20.0	19.8	
57 Dibromomethane	174	13.337	13.342	-0.005	94	1297324	20.0	19.3	
56 1,4-Dioxane	88	13.316	13.326	-0.010	92	535455	20.0	19.6	
58 Dichlorobromomethane	83	13.652	13.662	-0.010	98	1903709	20.0	18.5	
60 cis-1,3-Dichloropropene	75	14.607	14.612	-0.005	90	1645048	20.0	19.1	
61 4-Methyl-2-pentanone (MIBK)	43	14.895	14.901	-0.006	95	1998093	20.0	18.6	
62 Toluene	92	15.210	15.215	-0.005	94	1945872	20.0	19.5	
63 n-Octane	43	15.328	15.338	-0.010	92	2154805	20.0	17.7	
64 trans-1,3-Dichloropropene	75	15.813	15.819	-0.006	95	1492933	20.0	18.8	
65 1,1,2-Trichloroethane	83	16.182	16.187	-0.005	95	1006536	20.0	19.2	
66 Tetrachloroethene	166	16.320	16.326	-0.006	97	1872932	20.0	19.0	
67 2-Hexanone	43	16.635	16.646	-0.011	95	1913933	20.0	18.8	
68 Chlorodibromomethane	129	16.945	16.950	-0.005	98	2300917	20.0	19.6	
69 Ethylene Dibromide	107	17.201	17.211	-0.010	98	1951517	20.0	19.8	
* 70 Chlorobenzene-d5	117	18.119	18.129	-0.010	84	3149863	10.0	10.0	
71 Chlorobenzene	112	18.178	18.188	-0.010	97	2787406	20.0	19.3	
72 Ethylbenzene	91	18.343	18.348	-0.005	97	4275973	20.0	19.2	
73 n-Nonane	57	18.524	18.535	-0.011	91	2054895	20.0	19.2	
74 m-Xylene & p-Xylene	106	18.599	18.604	-0.005	0	3478636	40.0	38.8	
76 o-Xylene	106	19.432	19.442	-0.010	99	1686418	20.0	19.6	
77 Styrene	104	19.485	19.490	-0.005	96	2773575	20.0	20.1	
78 Bromoform	173	19.912	19.923	-0.011	99	2412921	20.0	20.0	
S 79 Xylenes, Total	106				0		60.0	58.5	
80 Isopropylbenzene	105	20.163	20.168	-0.005	95	4923807	20.0	19.4	
81 1,1,2,2-Tetrachloroethane	83	20.835	20.841	-0.006	97	2705032	20.0	19.2	
82 N-Propylbenzene	91	20.921	20.926	-0.005	99	5867427	20.0	19.2	
83 1,2,3-Trichloropropane	75	20.926	20.931	-0.005	96	2047819	20.0	19.0	
85 2-Chlorotoluene	91	21.118	21.123	-0.005	92	4049266	20.0	19.2	
84 4-Ethyltoluene	105	21.118	21.123	-0.005	93	5035810	20.0	19.5	
86 n-Decane	57	21.145	21.150	-0.005	90	2661333	20.0	19.1	
87 1,3,5-Trimethylbenzene	105	21.230	21.236	-0.006	94	4063524	20.0	19.2	
88 Alpha Methyl Styrene	118	21.609	21.614	-0.005	91	2302839	20.0	20.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
89 tert-Butylbenzene	119	21.732	21.737	-0.005	96	4073112	20.0	19.2	
90 1,2,4-Trimethylbenzene	105	21.833	21.839	-0.006	96	4137155	20.0	19.3	
91 sec-Butylbenzene	105	22.074	22.073	0.001	99	6212088	20.0	19.1	
92 4-Isopropyltoluene	119	22.282	22.287	-0.005	98	5458528	20.0	19.5	
93 1,3-Dichlorobenzene	146	22.298	22.303	-0.005	95	3339718	20.0	19.6	
94 1,4-Dichlorobenzene	146	22.436	22.442	-0.006	96	3286159	20.0	19.5	
95 Benzyl chloride	91	22.629	22.634	-0.005	100	3884075	20.0	19.4	
96 n-Butylbenzene	91	22.853	22.858	-0.005	98	4935654	20.0	19.1	
97 Undecane	57	22.906	22.911	-0.005	95	2992687	20.0	18.9	
98 1,2-Dichlorobenzene	146	22.959	22.965	-0.006	98	3141033	20.0	19.4	
99 Dodecane	57	24.432	24.438	-0.006	97	2652782	20.0	21.5	
100 1,2,4-Trichlorobenzene	180	25.356	25.361	-0.005	94	2506571	20.0	21.2	
101 Hexachlorobutadiene	225	25.553	25.558	-0.005	96	2475302	20.0	19.5	
102 Naphthalene	128	25.793	25.799	-0.006	99	4838795	20.0	22.3	
103 1,2,3-Trichlorobenzene	180	26.247	26.258	-0.011	96	1920963	20.0	22.1	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ATTO15CAL6w_00169

Amount Added: 200.00

Units: mL

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

Report Date: 24-Sep-2019 09:18:42

Chrom Revision: 2.3 17-Sep-2019 16:19:08

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D

Injection Date: 23-Sep-2019 10:48:30

Instrument ID: CHC.i

Operator ID: vtp

Lims ID: ic

Worklist Smp#: 20

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

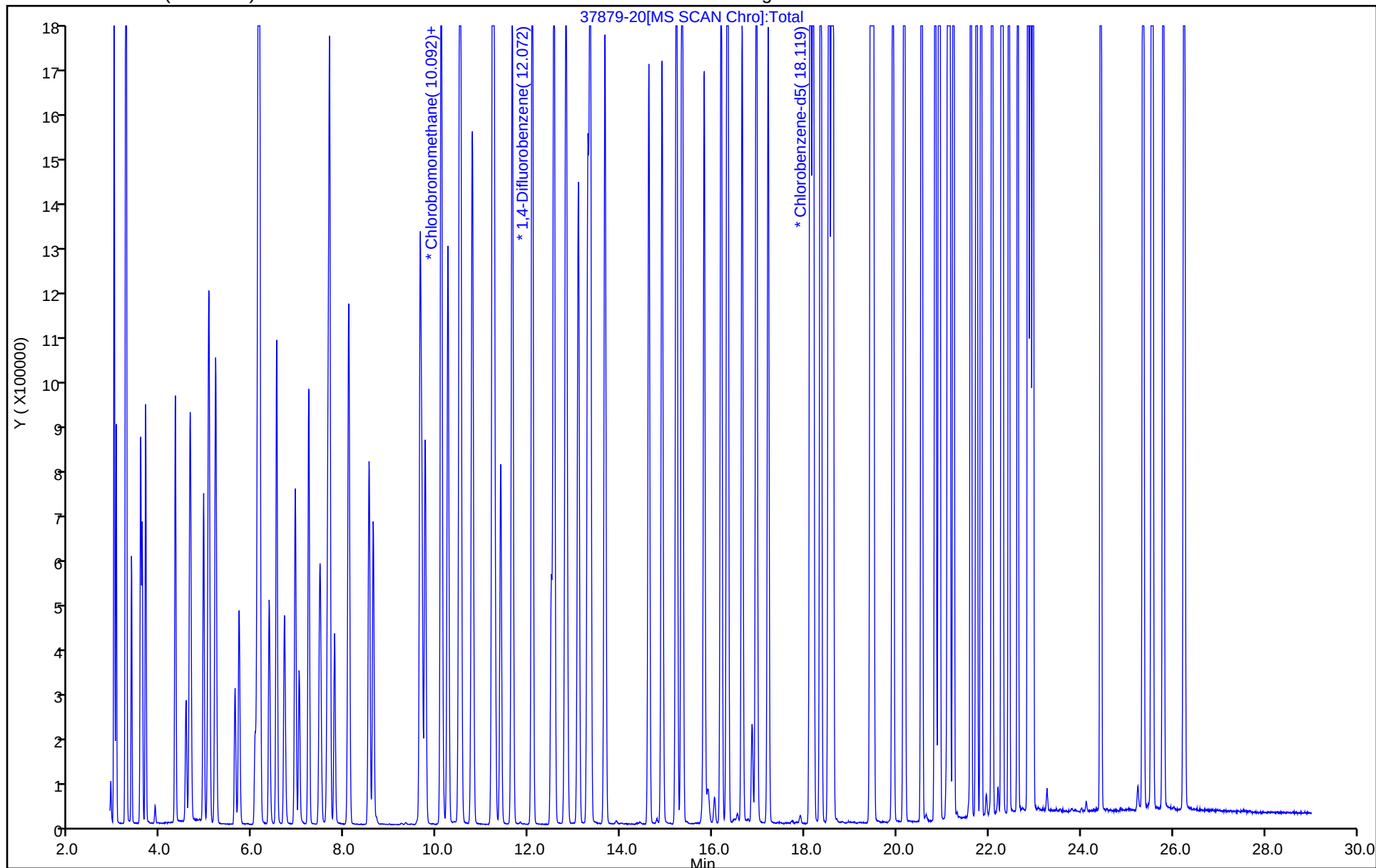
ALS Bottle#: 20

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D

Injection Date: 23-Sep-2019 10:48:30

Instrument ID: CHC.i

Lims ID: ic

Client ID:

Operator ID: vtp

ALS Bottle#:

20

Worklist Smp#: 20

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

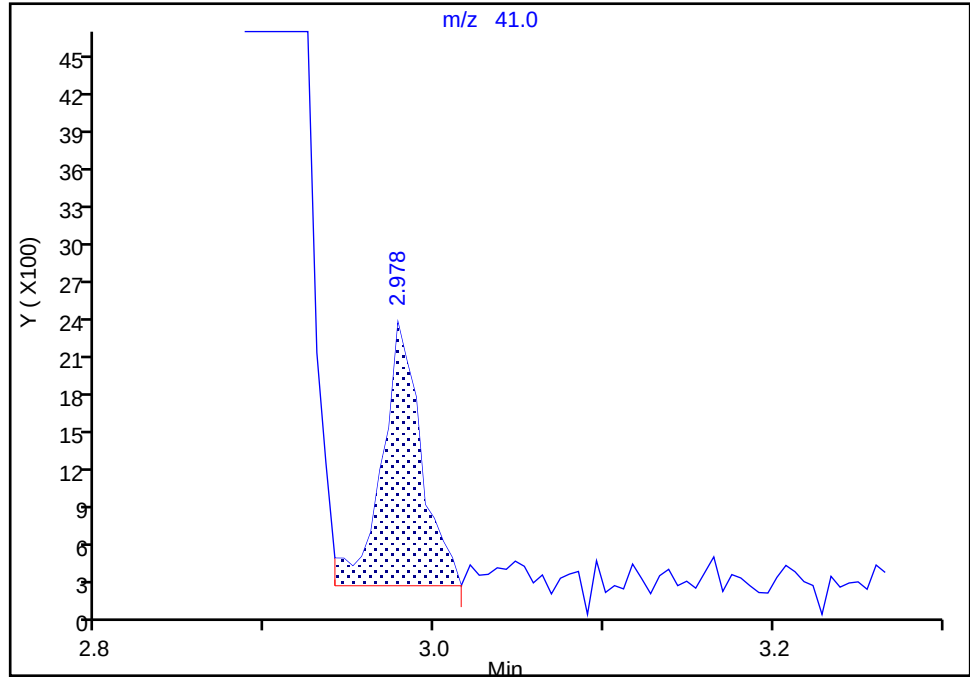
Detector: MS SCAN

1 Propene, CAS: 115-07-1

Signal: 1

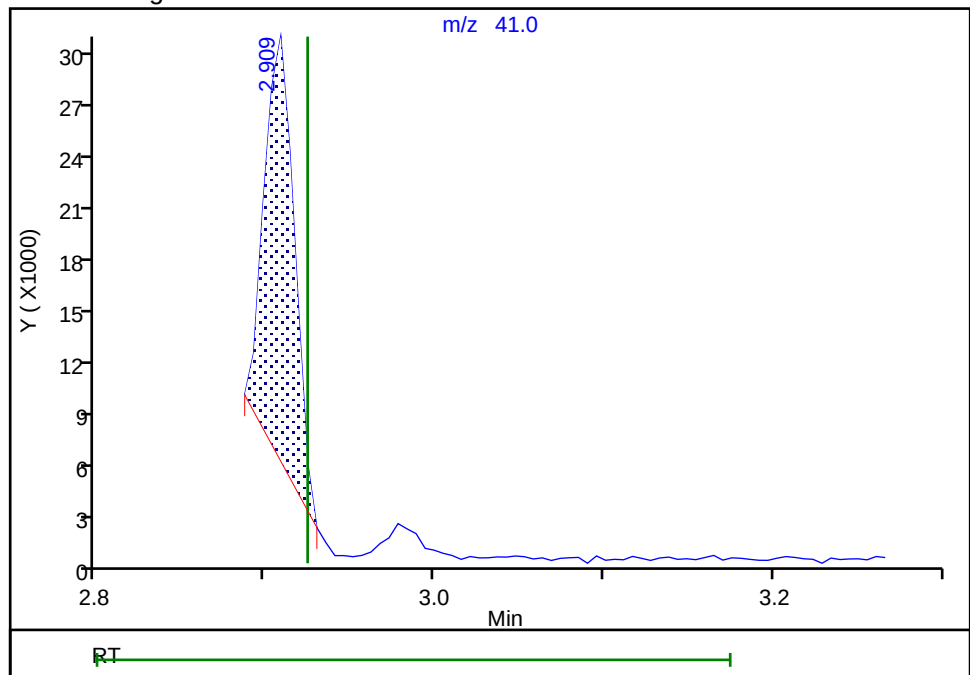
RT: 2.98
Area: 3388
Amount: 0.150468
Amount Units: ppb v/v

Processing Integration Results



RT: 2.91
Area: 30261
Amount: 1.108678
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 23-Sep-2019 11:38:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Lab Sample ID: ICV 200-147678/3 Calibration Date: 09/24/2019 11:56
 Instrument ID: CHC.i Calib Start Date: 09/22/2019 15:25
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 09/23/2019 10:48
 Lab File ID: 37906-03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.3889	0.3689		9.48	10.0	-5.1	30.0
Dichlorodifluoromethane	Ave	1.270	1.248		9.82	10.0	-1.8	30.0
Freon 22	Ave	0.7273	0.7480		10.3	10.0	2.8	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.405	1.444		10.3	10.0	2.7	30.0
Chloromethane	Ave	0.4321	0.4703		10.9	10.0	8.9	30.0
n-Butane	Ave	0.6864	0.7553		11.0	10.0	10.0	30.0
Vinyl chloride	Ave	0.5413	0.5624		10.4	10.0	3.9	30.0
1,3-Butadiene	Ave	0.3716	0.3948		10.6	10.0	6.3	30.0
Bromomethane	Ave	0.5102	0.5572		10.9	10.0	9.2	30.0
Chloroethane	Ave	0.2186	0.2630		12.0	10.0	20.3	30.0
Isopentane	Ave	0.5136	0.6025		11.7	10.0	17.3	30.0
Bromoethene (Vinyl Bromide)	Ave	0.4760	0.4770		10.0	10.0	0.2	30.0
Trichlorofluoromethane	Ave	1.269	1.217		9.59	10.0	-4.1	30.0
n-Pentane	Ave	0.8146	0.8288		10.2	10.0	1.7	30.0
Ethanol	Ave	0.1796	0.1916		16.0	15.0	6.6	30.0
Ethyl ether	Ave	0.2916	0.3014		10.3	10.0	3.4	30.0
Acrolein	Ave	0.1512	0.1658		11.0	10.0	9.6	30.0
Freon TF	Ave	1.126	1.127		10.0	10.0	0.0	30.0
1,1-Dichloroethene	Ave	0.5285	0.5191		9.82	10.0	-1.8	30.0
Acetone	Ave	0.6382	0.6648		10.4	10.0	4.2	30.0
Carbon disulfide	Ave	1.425	1.473		10.3	10.0	3.4	30.0
Isopropyl alcohol	Ave	0.6555	0.7192		11.0	10.0	9.7	30.0
3-Chloropropene	Ave	0.5628	0.6084		10.8	10.0	8.1	30.0
Acetonitrile	Ave	0.3088	0.3431		11.1	10.0	11.1	30.0
Methylene Chloride	Ave	0.5321	0.5600		10.5	10.0	5.2	30.0
tert-Butyl alcohol	Ave	0.8859	0.9360		10.6	10.0	5.7	30.0
Methyl tert-butyl ether	Ave	1.314	1.334		10.2	10.0	1.6	30.0
trans-1,2-Dichloroethene	Ave	0.7040	0.7294		10.4	10.0	3.6	30.0
Acrylonitrile	Ave	0.3002	0.3301		11.0	10.0	9.9	30.0
n-Hexane	Ave	0.6777	0.7143		10.5	10.0	5.4	30.0
1,1-Dichloroethane	Ave	0.9378	0.9112		9.71	10.0	-2.8	30.0
Vinyl acetate	Ave	1.036	1.128		10.9	10.0	8.9	30.0
cis-1,2-Dichloroethene	Ave	0.6100	0.5875		9.63	10.0	-3.7	30.0
Methyl Ethyl Ketone	Ave	0.2461	0.2580		10.5	10.0	4.8	30.0
Ethyl acetate	Ave	0.0423	0.0448		10.6	10.0	6.0	30.0
Tetrahydrofuran	Ave	0.1125	0.1235		11.0	10.0	9.8	30.0
Chloroform	Ave	1.211	1.187		9.80	10.0	-2.0	30.0
Cyclohexane	Ave	0.1538	0.1570		10.2	10.0	2.1	30.0
1,1,1-Trichloroethane	Ave	0.2691	0.2566		9.53	10.0	-4.7	30.0
Carbon tetrachloride	Ave	0.2833	0.2725		9.62	10.0	-3.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Lab Sample ID: ICV 200-147678/3 Calibration Date: 09/24/2019 11:56
 Instrument ID: CHC.i Calib Start Date: 09/22/2019 15:25
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 09/23/2019 10:48
 Lab File ID: 37906-03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	0.3751	0.3779		10.1	10.0	0.7	30.0
2,2,4-Trimethylpentane	Ave	0.5774	0.6002		10.4	10.0	4.0	30.0
1,2-Dichloroethane	Ave	0.1608	0.1549		9.63	10.0	-3.7	30.0
n-Heptane	Ave	0.2313	0.2331		10.1	10.0	0.8	30.0
n-Butanol	Ave	0.0722	0.0761		10.5	10.0	5.3	30.0
Trichloroethene	Ave	0.1878	0.1808		9.63	10.0	-3.7	30.0
1,2-Dichloropropane	Ave	0.1598	0.1633		10.2	10.0	2.1	30.0
Methyl methacrylate	Ave	0.1445	0.1474		10.2	10.0	2.0	30.0
1,4-Dioxane	Ave	0.0826	0.0853		10.3	10.0	3.2	30.0
Dibromomethane	Ave	0.2040	0.1915		9.39	10.0	-6.1	30.0
Bromodichloromethane	Ave	0.3125	0.3020		9.66	10.0	-3.3	30.0
cis-1,3-Dichloropropene	Ave	0.2604	0.2611		10.0	10.0	0.3	30.0
methyl isobutyl ketone	Ave	0.3262	0.3371		10.3	10.0	3.3	30.0
Toluene	Ave	0.3165	0.3127		9.88	10.0	-1.2	30.0
n-Octane	Ave	0.3683	0.3680		9.99	10.0	-0.0	30.0
trans-1,3-Dichloropropene	Ave	0.2405	0.2391		9.94	10.0	-0.6	30.0
1,1,2-Trichloroethane	Ave	0.1667	0.1640		9.83	10.0	-1.6	30.0
Tetrachloroethene	Ave	0.3133	0.2908		9.28	10.0	-7.2	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.3232	0.3300		10.2	10.0	2.1	30.0
Dibromochloromethane	Ave	0.3725	0.3633		9.75	10.0	-2.5	30.0
1,2-Dibromoethane	Ave	0.3125	0.3107		9.94	10.0	-0.6	30.0
Chlorobenzene	Ave	0.4587	0.4506		9.82	10.0	-1.8	30.0
Ethylbenzene	Ave	0.7079	0.7065		9.98	10.0	-0.2	30.0
n-Nonane	Ave	0.3392	0.3543		10.4	10.0	4.4	30.0
m,p-Xylene	Ave	0.2845	0.2825		19.9	20.0	-0.7	30.0
Xylene, o-	Ave	0.2726	0.2721		9.98	10.0	-0.2	30.0
Styrene	Ave	0.4380	0.4430		10.1	10.0	1.1	30.0
Bromoform	Ave	0.3821	0.3786		9.91	10.0	-0.9	30.0
Cumene	Ave	0.8053	0.8095		10.1	10.0	0.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4481	0.4494		10.0	10.0	0.3	30.0
1,2,3-Trichloropropane	Ave	0.3416	0.3467		10.1	10.0	1.5	30.0
n-Propylbenzene	Ave	0.9677	0.9832		10.2	10.0	1.6	30.0
2-Chlorotoluene	Ave	0.6712	0.6788		10.1	10.0	1.1	30.0
4-Ethyltoluene	Ave	0.8212	0.8304		10.1	10.0	1.1	30.0
n-Decane	Ave	0.4428	0.4664		10.5	10.0	5.3	30.0
1,3,5-Trimethylbenzene	Ave	0.6717	0.6708		9.98	10.0	-0.1	30.0
Alpha Methyl Styrene	Ave	0.3654	0.3651		9.99	10.0	-0.0	30.0
tert-Butylbenzene	Ave	0.6738	0.6649		9.87	10.0	-1.3	30.0
1,2,4-Trimethylbenzene	Ave	0.6803	0.6838		10.0	10.0	0.5	30.0
sec-Butylbenzene	Ave	1.030	1.032		10.0	10.0	0.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Lab Sample ID: ICV 200-147678/3 Calibration Date: 09/24/2019 11:56
 Instrument ID: CHC.i Calib Start Date: 09/22/2019 15:25
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 09/23/2019 10:48
 Lab File ID: 37906-03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	0.8904	0.8884		9.98	10.0	-0.2	30.0
1,3-Dichlorobenzene	Ave	0.5404	0.5287		9.78	10.0	-2.2	30.0
1,4-Dichlorobenzene	Ave	0.5339	0.5210		9.76	10.0	-2.4	30.0
Benzyl chloride	Ave	0.6365	0.6444		10.1	10.0	1.2	30.0
n-Butylbenzene	Ave	0.8187	0.8368		10.2	10.0	2.2	30.0
n-Undecane	Ave	0.5030	0.5274		10.5	10.0	4.8	30.0
1,2-Dichlorobenzene	Ave	0.5137	0.5011		9.75	10.0	-2.4	30.0
n-Dodecane	Ave	0.3921	0.4487		11.4	10.0	14.4	30.0
1,2,4-Trichlorobenzene	Ave	0.3746	0.3821		10.2	10.0	2.0	30.0
Hexachlorobutadiene	Ave	0.4022	0.4018		9.99	10.0	-0.0	30.0
Naphthalene	Ave	0.6879	0.7351		10.7	10.0	6.9	30.0
1,2,3-Trichlorobenzene	Ave	0.2755	0.2865		10.4	10.0	4.0	30.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20190924-37906.b\37906-03.D

Lims ID: icv

Client ID:

Sample Type: ICV

Inject. Date: 24-Sep-2019 11:56:30

ALS Bottle#:

3

Worklist Smp#:

3

Purge Vol: 200.000 mL

Dil. Factor:

1.0000

Sample Info: 200-0037906-003

Operator ID: vtp

Instrument ID:

CHC.i

Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1

Method: \\chromna\Burlington\ChromData\CHC.i\20190924-37906.b\TO15_MasterMethod_(v1)_CHC.i.m

Limit Group: AI_TO15_ICAL

Last Update: 26-Sep-2019 14:54:41

Calib Date:

23-Sep-2019 10:48:30

Integrator: RTE

ID Type:

Deconvolution ID

Quant Method: Internal Standard

Quant By:

Initial Calibration

Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D

Column 1 : RTX-624 (0.32 mm)

Det: MS SCAN

Process Host: CTX0335

First Level Reviewer: bunmaa

Date:

26-Sep-2019 14:54:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	2.925	2.925	0.000	98	237018	10.0	9.48	M
2 Dichlorodifluoromethane	85	2.989	2.989	0.000	99	801447	10.0	9.82	
3 Chlorodifluoromethane	51	3.037	3.037	0.000	97	480537	10.0	10.3	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.240	3.240	0.000	93	927523	10.0	10.3	
5 Chloromethane	50	3.362	3.362	0.000	99	302144	10.0	10.9	
6 Butane	43	3.560	3.560	0.000	99	485253	10.0	11.0	
7 Vinyl chloride	62	3.597	3.597	0.000	98	361289	10.0	10.4	
8 Butadiene	54	3.672	3.672	0.000	98	253652	10.0	10.6	
9 Bromomethane	94	4.318	4.318	0.000	99	357982	10.0	10.9	
10 Chloroethane	64	4.547	4.547	0.000	100	168953	10.0	12.0	
11 2-Methylbutane	43	4.638	4.638	0.000	93	387078	10.0	11.7	
13 Vinyl bromide	106	4.931	4.931	0.000	99	306445	10.0	10.0	
14 Trichlorofluoromethane	101	5.044	5.044	0.000	98	781861	10.0	9.59	
15 Pentane	43	5.193	5.193	0.000	97	532471	10.0	10.2	
16 Ethanol	45	5.604	5.604	0.000	99	184712	15.0	16.0	
17 Ethyl ether	59	5.700	5.700	0.000	94	193645	10.0	10.3	
18 Acrolein	56	6.047	6.047	0.000	96	106506	10.0	11.0	
19 1,1,2-Trichloro-1,2,2-trif	101	6.122	6.122	0.000	98	723869	10.0	10.0	
20 1,1-Dichloroethene	96	6.143	6.143	0.000	98	333461	10.0	9.82	
21 Acetone	43	6.351	6.351	0.000	98	427098	10.0	10.4	
22 Carbon disulfide	76	6.516	6.516	0.000	99	946055	10.0	10.3	
23 Isopropyl alcohol	45	6.677	6.677	0.000	99	462067	10.0	11.0	
24 3-Chloro-1-propene	41	6.917	6.917	0.000	94	390846	10.0	10.8	a
25 Acetonitrile	41	7.002	7.002	0.000	99	220442	10.0	11.1	a
27 Methylene Chloride	49	7.210	7.210	0.000	92	359757	10.0	10.5	
28 2-Methyl-2-propanol	59	7.456	7.456	0.000	93	601310	10.0	10.6	
29 Methyl tert-butyl ether	73	7.637	7.637	0.000	97	857227	10.0	10.2	
30 trans-1,2-Dichloroethene	61	7.664	7.664	0.000	98	468614	10.0	10.4	
31 Acrylonitrile	53	7.771	7.771	0.000	95	212068	10.0	11.0	
32 Hexane	57	8.086	8.086	0.000	94	458892	10.0	10.5	
33 1,1-Dichloroethane	63	8.523	8.523	0.000	99	585383	10.0	9.71	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
34 Vinyl acetate	43	8.614	8.614	0.000	100	724620	10.0	10.9	
35 cis-1,2-Dichloroethene	96	9.633	9.633	0.000	92	377451	10.0	9.63	
36 2-Butanone (MEK)	72	9.671	9.671	0.000	100	165724	10.0	10.5	
37 Ethyl acetate	88	9.740	9.740	0.000	100	28782	10.0	10.6	
* 38 Chlorobromomethane	128	10.087	10.087	0.000	85	642563	10.0	10.0	
12 BFB									
39 Tetrahydrofuran	42	10.103	10.103	0.000	94	375205	10.0	11.0	
S 40 1,2-Dichloroethene, Total	61				0		20.0	20.0	
41 Chloroform	83	10.236	10.236	0.000	95	762423	10.0	9.80	
42 Cyclohexane	84	10.492	10.492	0.000	98	476877	10.0	10.2	
43 1,1,1-Trichloroethane	97	10.508	10.508	0.000	94	779379	10.0	9.53	
44 Carbon tetrachloride	117	10.770	10.770	0.000	97	827676	10.0	9.62	
45 Benzene	78	11.213	11.213	0.000	96	1147830	10.0	10.1	
46 Isooctane	57	11.229	11.229	0.000	99	1823283	10.0	10.4	
47 1,2-Dichloroethane	62	11.384	11.384	0.000	97	470514	10.0	9.63	
48 n-Heptane	43	11.635	11.635	0.000	94	708038	10.0	10.1	
* 49 1,4-Difluorobenzene	114	12.072	12.072	0.000	94	3038218	10.0	10.0	
50 n-Butanol	56	12.488	12.488	0.000	89	231116	10.0	10.5	
51 Trichloroethene	95	12.542	12.542	0.000	98	549336	10.0	9.63	
A 52 GRO	1	12.891	(4.628-21.155)		0	176361618	10.0	0	
53 1,2-Dichloropropane	63	13.076	13.076	0.000	93	495915	10.0	10.2	
55 Methyl methacrylate	69	13.284	13.284	0.000	95	447704	10.0	10.2	
56 1,4-Dioxane	88	13.316	13.316	0.000	94	259024	10.0	10.3	
57 Dibromomethane	174	13.332	13.332	0.000	95	581717	10.0	9.39	
58 Dichlorobromomethane	83	13.652	13.652	0.000	98	917413	10.0	9.66	
A 59 TVOC as Toluene	1	14.586	(2.915-26.257)		0	281869710	10.0	0	
60 cis-1,3-Dichloropropene	75	14.607	14.607	0.000	91	793210	10.0	10.0	
61 4-Methyl-2-pentanone (MIBK)	43	14.895	14.895	0.000	97	1023959	10.0	10.3	
62 Toluene	92	15.205	15.205	0.000	93	917411	10.0	9.88	
63 n-Octane	43	15.328	15.328	0.000	93	1117903	10.0	9.99	
64 trans-1,3-Dichloropropene	75	15.808	15.808	0.000	96	726364	10.0	9.94	
65 1,1,2-Trichloroethane	83	16.176	16.176	0.000	96	481011	10.0	9.83	
66 Tetrachloroethene	166	16.315	16.315	0.000	98	853021	10.0	9.28	
67 2-Hexanone	43	16.635	16.635	0.000	94	968183	10.0	10.2	
68 Chlorodibromomethane	129	16.945	16.945	0.000	98	1065913	10.0	9.75	
69 Ethylene Dibromide	107	17.201	17.201	0.000	99	911446	10.0	9.94	
* 70 Chlorobenzene-d5	117	18.119	18.119	0.000	85	2934345	10.0	10.0	
71 Chlorobenzene	112	18.178	18.178	0.000	96	1321828	10.0	9.82	
72 Ethylbenzene	91	18.343	18.343	0.000	98	2072743	10.0	9.98	
73 n-Nonane	57	18.525	18.525	0.000	93	1039505	10.0	10.4	
74 m-Xylene & p-Xylene	106	18.594	18.594	0.000	0	1657793	20.0	19.9	
76 o-Xylene	106	19.432	19.432	0.000	99	798205	10.0	9.98	
77 Styrene	104	19.485	19.485	0.000	97	1299686	10.0	10.1	
78 Bromoform	173	19.912	19.912	0.000	99	1110610	10.0	9.91	
S 79 Xylenes, Total	106				0		30.0	29.8	
80 Isopropylbenzene	105	20.158	20.158	0.000	95	2374841	10.0	10.1	
81 1,1,2,2-Tetrachloroethane	83	20.835	20.835	0.000	98	1318390	10.0	10.0	
83 1,2,3-Trichloropropane	75	20.921	20.921	0.000	97	1016980	10.0	10.1	
82 N-Propylbenzene	91	20.921	20.921	0.000	99	2884519	10.0	10.2	
84 4-Ethyltoluene	105	21.118	21.118	0.000	90	2436056	10.0	10.1	
85 2-Chlorotoluene	91	21.118	21.118	0.000	89	1991550	10.0	10.1	
86 n-Decane	57	21.145	21.145	0.000	89	1368327	10.0	10.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
87 1,3,5-Trimethylbenzene	105	21.230	21.230	0.000	94	1968048	10.0	9.98	
88 Alpha Methyl Styrene	118	21.609	21.609	0.000	91	1071241	10.0	10.0	
89 tert-Butylbenzene	119	21.732	21.732	0.000	95	1950761	10.0	9.87	
90 1,2,4-Trimethylbenzene	105	21.833	21.833	0.000	97	2006068	10.0	10.0	
91 sec-Butylbenzene	105	22.068	22.068	0.000	99	3028619	10.0	10.0	
92 4-Isopropyltoluene	119	22.282	22.282	0.000	98	2606298	10.0	9.98	
93 1,3-Dichlorobenzene	146	22.298	22.298	0.000	96	1551165	10.0	9.78	
94 1,4-Dichlorobenzene	146	22.436	22.436	0.000	96	1528381	10.0	9.76	
95 Benzyl chloride	91	22.629	22.629	0.000	100	1890426	10.0	10.1	
96 n-Butylbenzene	91	22.853	22.853	0.000	98	2454978	10.0	10.2	
97 Undecane	57	22.906	22.906	0.000	96	1547121	10.0	10.5	
98 1,2-Dichlorobenzene	146	22.959	22.959	0.000	98	1470097	10.0	9.75	
99 Dodecane	57	24.432	24.432	0.000	97	1316441	10.0	11.4	
100 1,2,4-Trichlorobenzene	180	25.356	25.356	0.000	94	1120977	10.0	10.2	
101 Hexachlorobutadiene	225	25.553	25.553	0.000	97	1178846	10.0	9.99	
102 Naphthalene	128	25.793	25.793	0.000	100	2156593	10.0	10.7	
103 1,2,3-Trichlorobenzene	180	26.247	26.247	0.000	96	840379	10.0	10.4	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ATTO15LCSW_00798

Amount Added: 200.00

Units: mL

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

Report Date: 26-Sep-2019 14:54:42

Chrom Revision: 2.3 17-Sep-2019 16:19:08

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190924-37906.b\37906-03.D

Injection Date: 24-Sep-2019 11:56:30

Instrument ID: CHC.i

Operator ID: vtp

Lims ID: icv

Worklist Smp#: 3

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

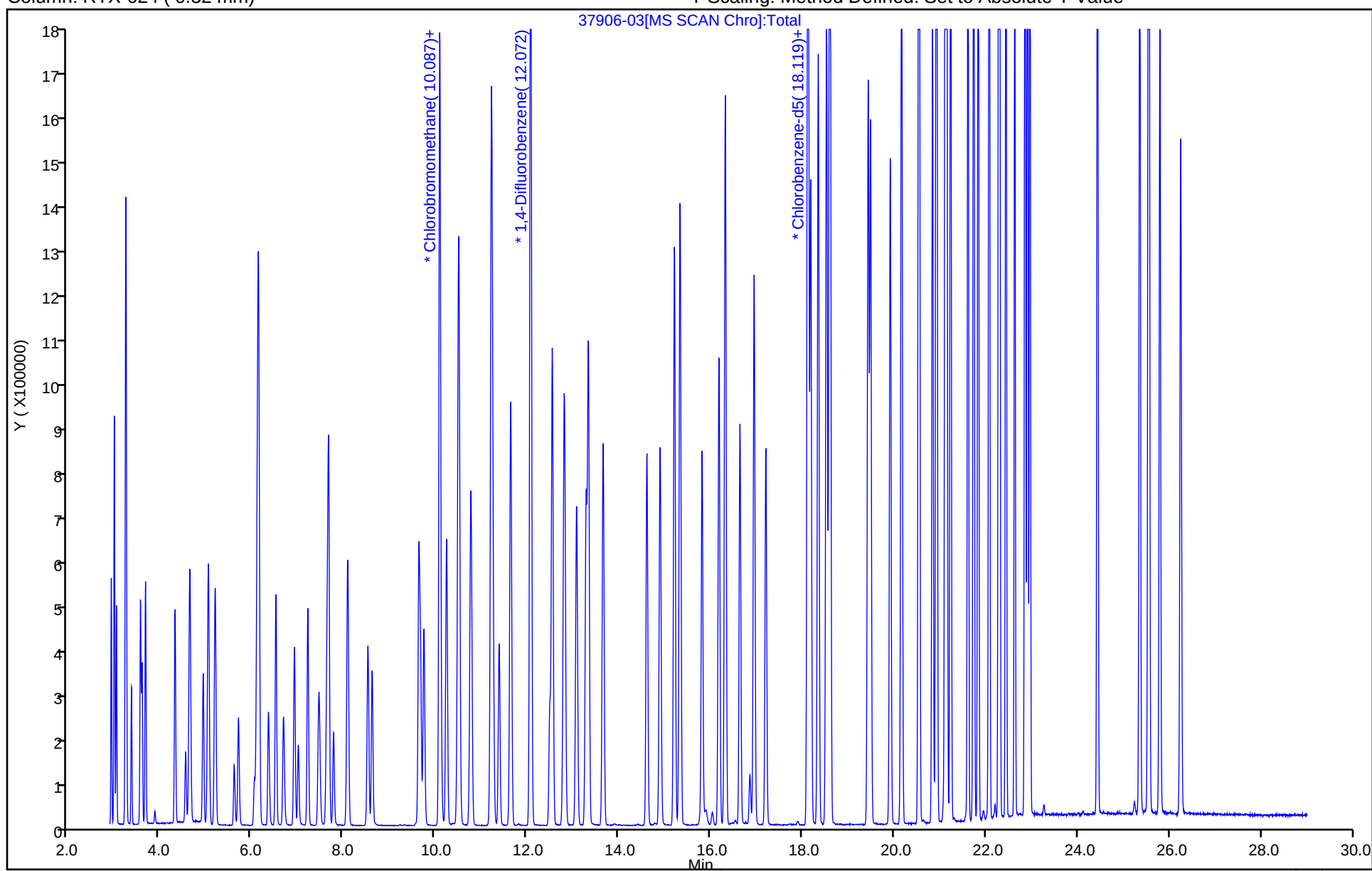
ALS Bottle#: 3

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Burlington

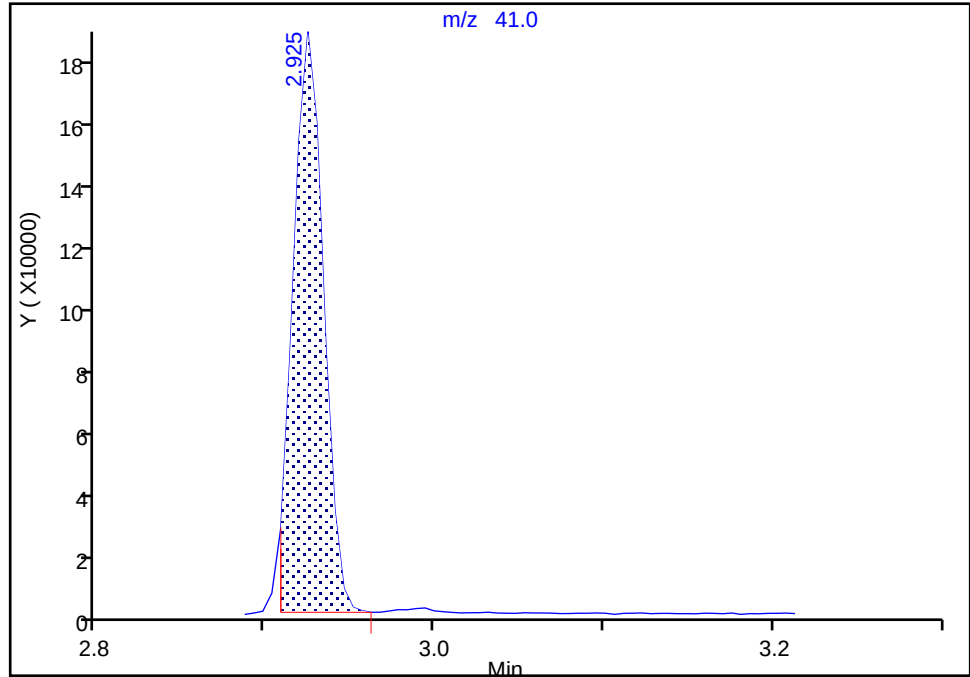
Data File:	\\chromna\Burlington\ChromData\CHC.i\20190924-37906.b\37906-03.D		
Injection Date:	24-Sep-2019 11:56:30	Instrument ID:	CHC.i
Lims ID:	icv		
Client ID:			
Operator ID:	vtp	ALS Bottle#:	3 Worklist Smp#: 3
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector:	MS SCAN

1 Propene, CAS: 115-07-1

Signal: 1

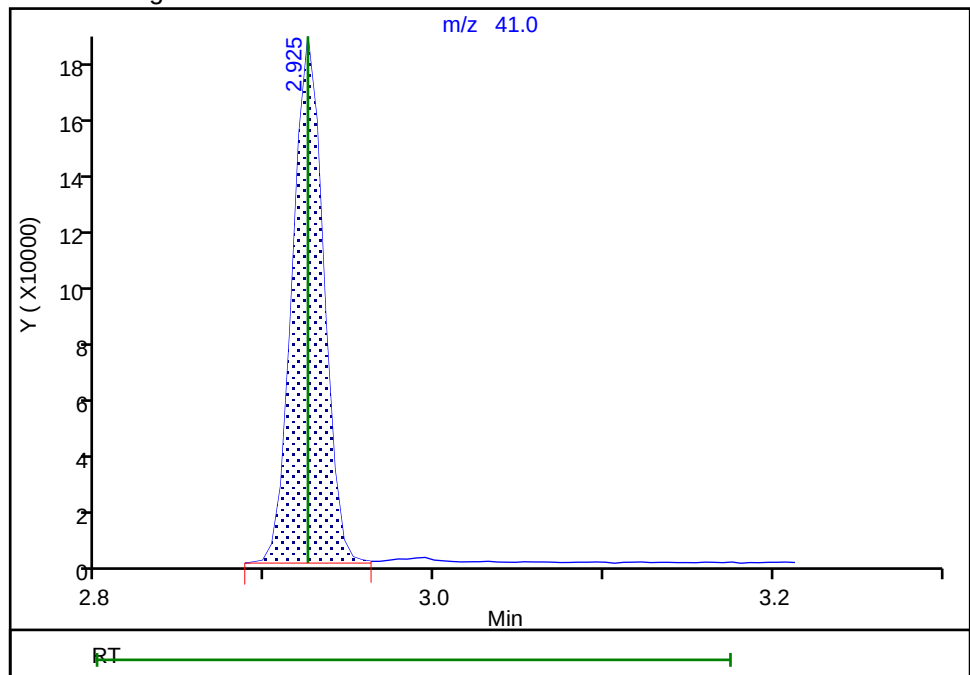
RT: 2.92
Area: 232376
Amount: 9.297901
Amount Units: ppb v/v

Processing Integration Results



RT: 2.92
Area: 237018
Amount: 9.483638
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 26-Sep-2019 14:53:38
Audit Action: Manually Integrated

Audit Reason: Assign Peak
Page 134 of 247

10/18/2019

Eurofins TestAmerica, Burlington

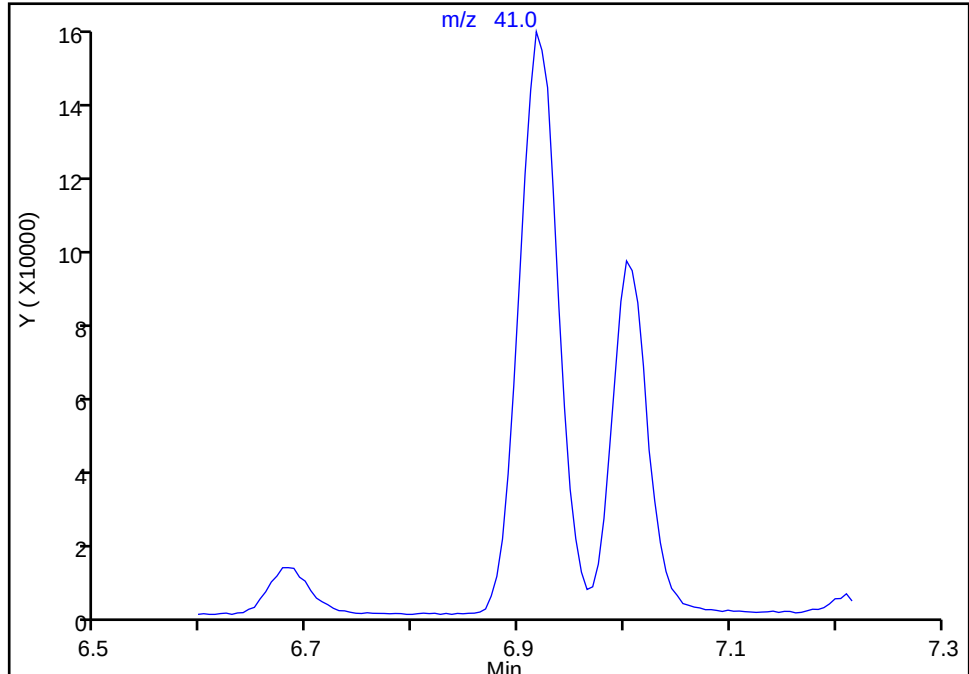
Data File: \\chromna\Burlington\ChromData\CHC.i\20190924-37906.b\37906-03.D
Injection Date: 24-Sep-2019 11:56:30 Instrument ID: CHC.i
Lims ID: icv
Client ID:
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

24 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

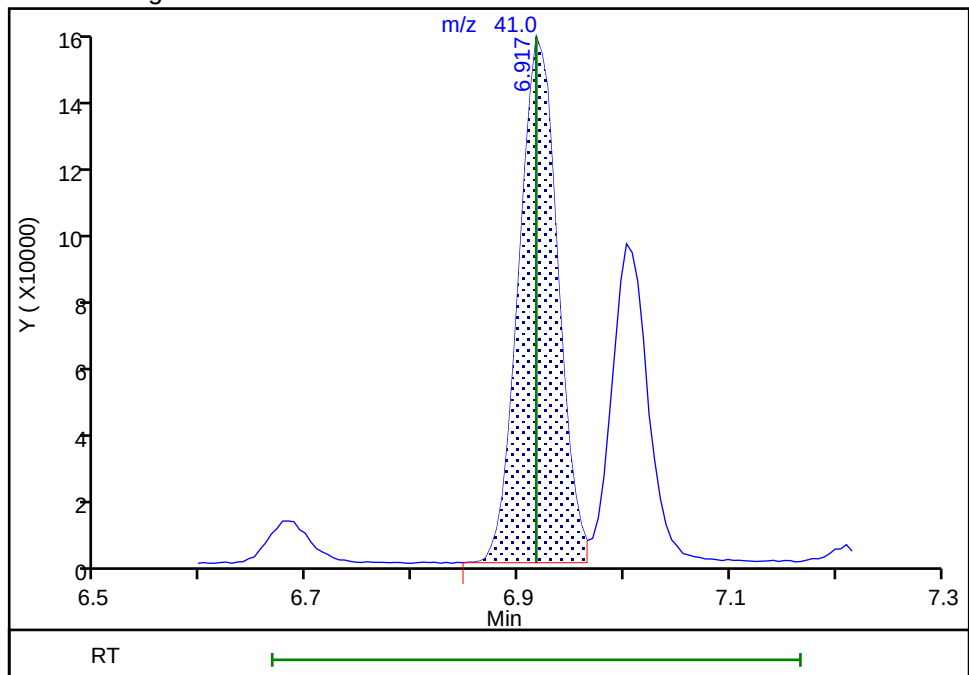
Not Detected
Expected RT: 6.92

Processing Integration Results



Manual Integration Results

RT: 6.92
Area: 390846
Amount: 10.807064
Amount Units: ppb v/v



Reviewer: bunmaa, 26-Sep-2019 14:53:59

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190924-37906.b\37906-03.D

Injection Date: 24-Sep-2019 11:56:30

Instrument ID: CHC.i

Lims ID: icv

Client ID:

Operator ID: vtp

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

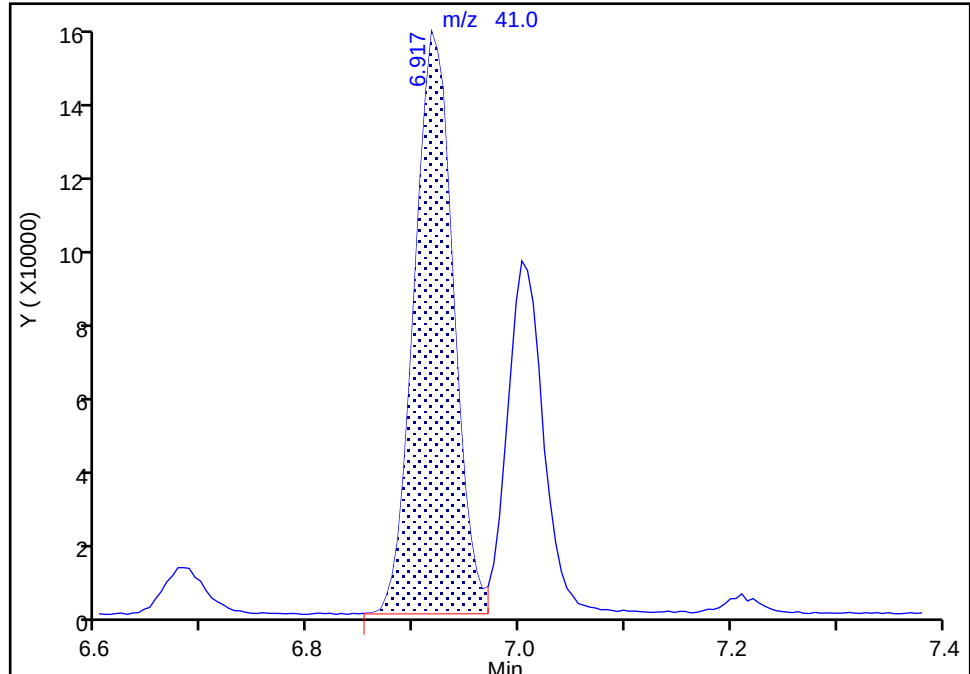
Detector: MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

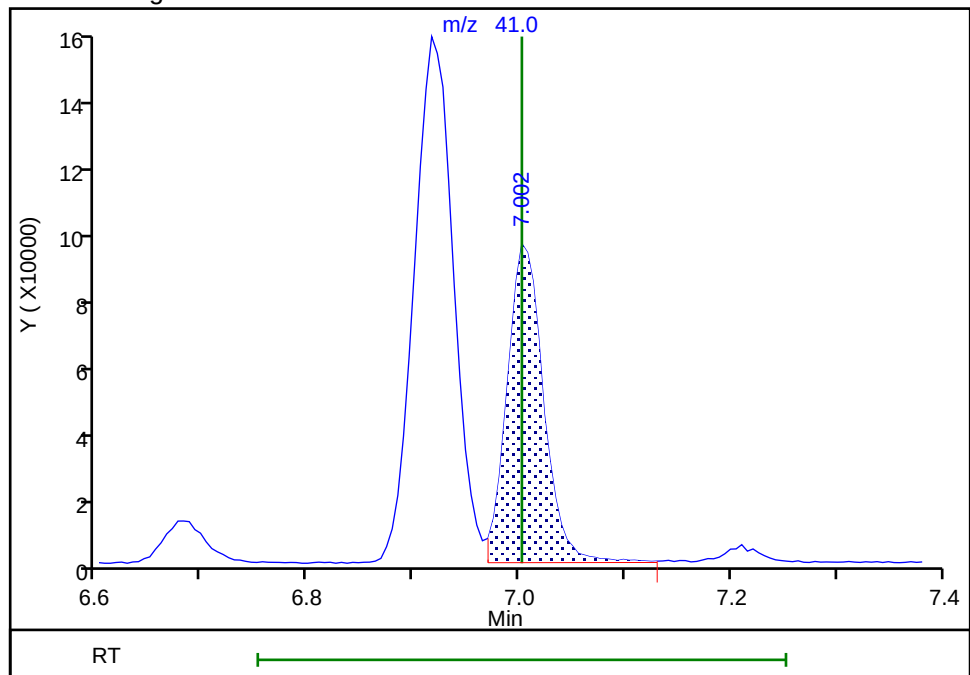
RT: 6.92
Area: 393337
Amount: 19.824984
Amount Units: ppb v/v

Processing Integration Results



RT: 7.00
Area: 220442
Amount: 11.110724
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 26-Sep-2019 14:54:12

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Lab Sample ID: CCVIS 200-148544/2 Calibration Date: 10/17/2019 09:02
 Instrument ID: CHC.i Calib Start Date: 09/22/2019 15:25
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 09/23/2019 10:48
 Lab File ID: 38287-02.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.3889	0.3325		8.55	10.0	-14.5	30.0
Dichlorodifluoromethane	Ave	1.270	1.365		10.7	10.0	7.5	30.0
Freon 22	Ave	0.7273	0.8014		11.0	10.0	10.2	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.405	1.555		11.1	10.0	10.6	30.0
Chloromethane	Ave	0.4321	0.5245		12.1	10.0	21.4	30.0
n-Butane	Ave	0.6864	0.7941		11.6	10.0	15.7	30.0
Vinyl chloride	Ave	0.5413	0.5361		9.90	10.0	-0.9	30.0
1,3-Butadiene	Ave	0.3716	0.3693		9.94	10.0	-0.6	30.0
Bromomethane	Ave	0.5102	0.4534		8.89	10.0	-11.1	30.0
Chloroethane	Ave	0.2186	0.1920		8.78	10.0	-12.2	30.0
Isopentane	Ave	0.5136	0.4538		8.83	10.0	-11.6	30.0
Bromoethene (Vinyl Bromide)	Ave	0.4760	0.3868		8.12	10.0	-18.7	30.0
Trichlorofluoromethane	Ave	1.269	1.287		10.1	10.0	1.4	30.0
n-Pentane	Ave	0.8146	0.7273		8.93	10.0	-10.7	30.0
Ethanol	Ave	0.1796	0.1893		15.8	15.0	5.4	30.0
Ethyl ether	Ave	0.2916	0.2751		9.43	10.0	-5.7	30.0
Acrolein	Ave	0.1512	0.1498		9.90	10.0	-1.0	30.0
Freon TF	Ave	1.126	1.108		9.83	10.0	-1.6	30.0
1,1-Dichloroethene	Ave	0.5285	0.5017		9.49	10.0	-5.1	30.0
Acetone	Ave	0.6382	0.7061		11.1	10.0	10.6	30.0
Carbon disulfide	Ave	1.425	1.401		9.83	10.0	-1.7	30.0
Isopropyl alcohol	Ave	0.6555	0.6856		10.5	10.0	4.6	30.0
3-Chloropropene	Ave	0.5628	0.5958		10.6	10.0	5.9	30.0
Acetonitrile	Ave	0.3088	0.3130		10.1	10.0	1.4	30.0
Methylene Chloride	Ave	0.5321	0.5767		10.8	10.0	8.4	30.0
tert-Butyl alcohol	Ave	0.8859	0.9494		10.7	10.0	7.2	30.0
Methyl tert-butyl ether	Ave	1.314	1.412		10.8	10.0	7.5	30.0
trans-1,2-Dichloroethene	Ave	0.7040	0.7475		10.6	10.0	6.2	30.0
Acrylonitrile	Ave	0.3002	0.3106		10.3	10.0	3.4	30.0
n-Hexane	Ave	0.6777	0.7031		10.4	10.0	3.7	30.0
1,1-Dichloroethane	Ave	0.9378	0.9435		10.1	10.0	0.6	30.0
Vinyl acetate	Ave	1.036	1.175		11.3	10.0	13.5	30.0
cis-1,2-Dichloroethene	Ave	0.6100	0.5973		9.79	10.0	-2.1	30.0
Methyl Ethyl Ketone	Ave	0.2461	0.2465		10.0	10.0	0.1	30.0
Ethyl acetate	Ave	0.0423	0.0410		9.70	10.0	-3.0	30.0
Tetrahydrofuran	Ave	0.1125	0.1240		11.0	10.0	10.2	30.0
Chloroform	Ave	1.211	1.256		10.4	10.0	3.7	30.0
Cyclohexane	Ave	0.1538	0.1567		10.2	10.0	1.9	30.0
1,1,1-Trichloroethane	Ave	0.2691	0.2933		10.9	10.0	9.0	30.0
Carbon tetrachloride	Ave	0.2833	0.3156		11.1	10.0	11.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Lab Sample ID: CCVIS 200-148544/2 Calibration Date: 10/17/2019 09:02
 Instrument ID: CHC.i Calib Start Date: 09/22/2019 15:25
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 09/23/2019 10:48
 Lab File ID: 38287-02.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	0.3751	0.3763		10.0	10.0	0.3	30.0
2,2,4-Trimethylpentane	Ave	0.5774	0.5823		10.1	10.0	0.8	30.0
1,2-Dichloroethane	Ave	0.1608	0.1880		11.7	10.0	16.9	30.0
n-Heptane	Ave	0.2313	0.2341		10.1	10.0	1.2	30.0
n-Butanol	Ave	0.0722	0.0668		9.25	10.0	-7.5	30.0
Trichloroethene	Ave	0.1878	0.1799		9.58	10.0	-4.2	30.0
1,2-Dichloropropane	Ave	0.1598	0.1525		9.54	10.0	-4.6	30.0
Methyl methacrylate	Ave	0.1445	0.1389		9.61	10.0	-3.9	30.0
1,4-Dioxane	Ave	0.0826	0.0777		9.40	10.0	-6.0	30.0
Dibromomethane	Ave	0.2040	0.2146		10.5	10.0	5.2	30.0
Bromodichloromethane	Ave	0.3125	0.3148		10.1	10.0	0.8	30.0
cis-1,3-Dichloropropene	Ave	0.2604	0.2594		9.96	10.0	-0.4	30.0
methyl isobutyl ketone	Ave	0.3262	0.3476		10.7	10.0	6.5	30.0
Toluene	Ave	0.3165	0.3057		9.66	10.0	-3.4	30.0
n-Octane	Ave	0.3683	0.3760		10.2	10.0	2.1	30.0
trans-1,3-Dichloropropene	Ave	0.2405	0.2489		10.3	10.0	3.5	30.0
1,1,2-Trichloroethane	Ave	0.1667	0.1570		9.41	10.0	-5.8	30.0
Tetrachloroethene	Ave	0.3133	0.3171		10.1	10.0	1.2	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.3232	0.3404		10.5	10.0	5.3	30.0
Dibromochloromethane	Ave	0.3725	0.3717		9.98	10.0	-0.2	30.0
1,2-Dibromoethane	Ave	0.3125	0.3029		9.69	10.0	-3.1	30.0
Chlorobenzene	Ave	0.4587	0.4568		9.96	10.0	-0.4	30.0
Ethylbenzene	Ave	0.7079	0.7054		9.96	10.0	-0.4	30.0
n-Nonane	Ave	0.3392	0.3309		9.75	10.0	-2.5	30.0
m,p-Xylene	Ave	0.2845	0.2832		19.9	20.0	-0.5	30.0
Xylene, o-	Ave	0.2726	0.2751		10.1	10.0	0.9	30.0
Styrene	Ave	0.4380	0.4366		9.97	10.0	-0.3	30.0
Bromoform	Ave	0.3821	0.4048		10.6	10.0	5.9	30.0
Cumene	Ave	0.8053	0.8142		10.1	10.0	1.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4481	0.4215		9.40	10.0	-5.9	30.0
n-Propylbenzene	Ave	0.9677	0.9805		10.1	10.0	1.3	30.0
1,2,3-Trichloropropane	Ave	0.3416	0.3454		10.1	10.0	1.1	30.0
2-Chlorotoluene	Ave	0.6712	0.6746		10.0	10.0	0.5	30.0
4-Ethyltoluene	Ave	0.8212	0.8385		10.2	10.0	2.1	30.0
n-Decane	Ave	0.4428	0.4498		10.2	10.0	1.6	30.0
1,3,5-Trimethylbenzene	Ave	0.6717	0.6685		9.95	10.0	-0.5	30.0
Alpha Methyl Styrene	Ave	0.3654	0.3633		9.94	10.0	-0.6	30.0
tert-Butylbenzene	Ave	0.6738	0.6686		9.92	10.0	-0.8	30.0
1,2,4-Trimethylbenzene	Ave	0.6803	0.6756		9.93	10.0	-0.7	30.0
sec-Butylbenzene	Ave	1.030	1.018		9.88	10.0	-1.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Lab Sample ID: CCVIS 200-148544/2 Calibration Date: 10/17/2019 09:02
 Instrument ID: CHC.i Calib Start Date: 09/22/2019 15:25
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 09/23/2019 10:48
 Lab File ID: 38287-02.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	0.8904	0.9027		10.1	10.0	1.4	30.0
1,3-Dichlorobenzene	Ave	0.5404	0.5448		10.1	10.0	0.8	30.0
1,4-Dichlorobenzene	Ave	0.5339	0.5309		9.94	10.0	-0.6	30.0
Benzyl chloride	Ave	0.6365	0.6406		10.1	10.0	0.6	30.0
n-Butylbenzene	Ave	0.8187	0.8219		10.0	10.0	0.4	30.0
n-Undecane	Ave	0.5030	0.5012		9.96	10.0	-0.4	30.0
1,2-Dichlorobenzene	Ave	0.5137	0.5025		9.78	10.0	-2.2	30.0
n-Dodecane	Ave	0.3921	0.4128		10.5	10.0	5.3	30.0
1,2,4-Trichlorobenzene	Ave	0.3746	0.3923		10.5	10.0	4.7	30.0
Hexachlorobutadiene	Ave	0.4022	0.4196		10.4	10.0	4.3	30.0
Naphthalene	Ave	0.6879	0.7023		10.2	10.0	2.1	30.0
1,2,3-Trichlorobenzene	Ave	0.2755	0.2833		10.3	10.0	2.8	30.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-02.D

Lims ID: ccvis

Client ID:

Sample Type: CCVIS

Inject. Date: 17-Oct-2019 09:02:30

ALS Bottle#:

1

Worklist Smp#:

2

Purge Vol: 200.000 mL

Dil. Factor:

1.0000

Sample Info: 200-0038287-002

Operator ID: ggg

Instrument ID:

CHC.i

Sublist: chrom-TO15_MasterMethod_(v1)_CHC.i*sub1

Method: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\TO15_MasterMethod_(v1)_CHC.i.m

Limit Group: AI_TO15_ICAL

Last Update: 18-Oct-2019 11:14:59

Calib Date:

23-Sep-2019 10:48:30

Integrator: RTE

ID Type:

Deconvolution ID

Quant Method: Internal Standard

Quant By:

Initial Calibration

Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D

Column 1 : RTX-624 (0.32 mm)

Det: MS SCAN

Process Host: CTX0329

First Level Reviewer: bunmaa

Date:

18-Oct-2019 11:14:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	2.919	2.919	0.000	97	140437	10.0	8.55	M
2 Dichlorodifluoromethane	85	2.989	2.989	0.000	100	576604	10.0	10.7	
3 Chlorodifluoromethane	51	3.037	3.037	0.000	97	338545	10.0	11.0	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.240	3.240	0.000	96	656693	10.0	11.1	
5 Chloromethane	50	3.362	3.362	0.000	99	221566	10.0	12.1	
6 Butane	43	3.560	3.560	0.000	97	335428	10.0	11.6	
7 Vinyl chloride	62	3.592	3.592	0.000	98	226479	10.0	9.90	
8 Butadiene	54	3.666	3.666	0.000	95	155982	10.0	9.94	
9 Bromomethane	94	4.312	4.312	0.000	99	191538	10.0	8.89	
10 Chloroethane	64	4.542	4.542	0.000	99	81122	10.0	8.78	
11 2-Methylbutane	43	4.632	4.632	0.000	92	191702	10.0	8.83	
12 BFB									
13 Vinyl bromide	106	4.926	4.926	0.000	98	163387	10.0	8.12	
14 Trichlorofluoromethane	101	5.038	5.038	0.000	98	543819	10.0	10.1	
15 Pentane	43	5.182	5.182	0.000	99	307244	10.0	8.93	
16 Ethanol	45	5.609	5.609	0.000	98	119986	15.0	15.8	
17 Ethyl ether	59	5.694	5.694	0.000	94	116208	10.0	9.43	
18 Acrolein	56	6.041	6.041	0.000	95	63272	10.0	9.90	
19 1,1,2-Trichloro-1,2,2-trif	101	6.111	6.111	0.000	95	467838	10.0	9.83	
20 1,1-Dichloroethene	96	6.137	6.137	0.000	98	211934	10.0	9.49	
21 Acetone	43	6.351	6.351	0.000	99	298279	10.0	11.1	
22 Carbon disulfide	76	6.506	6.506	0.000	100	591612	10.0	9.83	
23 Isopropyl alcohol	45	6.687	6.687	0.000	100	289612	10.0	10.5	
24 3-Chloro-1-propene	41	6.911	6.911	0.000	99	251678	10.0	10.6	
25 Acetonitrile	41	6.997	6.997	0.000	97	132224	10.0	10.1	
27 Methylene Chloride	49	7.199	7.199	0.000	93	243616	10.0	10.8	
28 2-Methyl-2-propanol	59	7.461	7.461	0.000	95	401050	10.0	10.7	
29 Methyl tert-butyl ether	73	7.637	7.637	0.000	96	596615	10.0	10.8	
30 trans-1,2-Dichloroethene	61	7.653	7.653	0.000	98	315747	10.0	10.6	
31 Acrylonitrile	53	7.760	7.760	0.000	94	131201	10.0	10.3	
32 Hexane	57	8.069	8.069	0.000	92	297012	10.0	10.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 1,1-Dichloroethane	63	8.512	8.512	0.000	100	398543	10.0	10.1	
34 Vinyl acetate	43	8.603	8.603	0.000	100	496477	10.0	11.3	
35 cis-1,2-Dichloroethene	96	9.617	9.617	0.000	93	252311	10.0	9.79	
36 2-Butanone (MEK)	72	9.665	9.665	0.000	100	104108	10.0	10.0	
37 Ethyl acetate	88	9.735	9.735	0.000	100	17318	10.0	9.70	
* 38 Chlorobromomethane	128	10.071	10.071	0.000	83	422505	10.0	10.0	
39 Tetrahydrofuran	42	10.103	10.103	0.000	92	242954	10.0	11.0	
S 40 1,2-Dichloroethene, Total	61				0		20.0	20.4	
41 Chloroform	83	10.220	10.220	0.000	96	530379	10.0	10.4	
42 Cyclohexane	84	10.482	10.482	0.000	96	307088	10.0	10.2	
43 1,1,1-Trichloroethane	97	10.492	10.492	0.000	95	574744	10.0	10.9	
44 Carbon tetrachloride	117	10.749	10.749	0.000	98	618344	10.0	11.1	
45 Benzene	78	11.197	11.197	0.000	96	737308	10.0	10.0	
46 Isooctane	57	11.213	11.213	0.000	98	1140876	10.0	10.1	
47 1,2-Dichloroethane	62	11.368	11.368	0.000	98	368294	10.0	11.7	
48 n-Heptane	43	11.618	11.618	0.000	95	458647	10.0	10.1	
* 49 1,4-Difluorobenzene	114	12.051	12.051	0.000	94	1959718	10.0	10.0	
50 n-Butanol	56	12.483	12.483	0.000	93	130951	10.0	9.25	
51 Trichloroethene	95	12.526	12.526	0.000	98	352468	10.0	9.58	
A 52 GRO	1	12.881	(4.622-21.139)		0	120503271	10.0	0	
53 1,2-Dichloropropane	63	13.059	13.059	0.000	88	298717	10.0	9.54	
55 Methyl methacrylate	69	13.268	13.268	0.000	92	272158	10.0	9.61	
56 1,4-Dioxane	88	13.305	13.305	0.000	52	152200	10.0	9.40	
57 Dibromomethane	174	13.310	13.310	0.000	92	420423	10.0	10.5	
58 Dichlorobromomethane	83	13.630	13.630	0.000	99	616834	10.0	10.1	
A 59 TVOC as Toluene	1	14.578	(2.909-26.246)		0	192214456	10.0	0	
60 cis-1,3-Dichloropropene	75	14.586	14.586	0.000	94	508301	10.0	9.96	
61 4-Methyl-2-pentanone (MIBK)	43	14.885	14.885	0.000	98	681049	10.0	10.7	
62 Toluene	92	15.189	15.189	0.000	93	589806	10.0	9.66	
63 n-Octane	43	15.312	15.312	0.000	96	736714	10.0	10.2	
64 trans-1,3-Dichloropropene	75	15.792	15.792	0.000	98	487653	10.0	10.3	
65 1,1,2-Trichloroethane	83	16.160	16.160	0.000	98	302838	10.0	9.41	
66 Tetrachloroethene	166	16.299	16.299	0.000	97	611813	10.0	10.1	
67 2-Hexanone	43	16.624	16.624	0.000	92	656687	10.0	10.5	
68 Chlorodibromomethane	129	16.923	16.923	0.000	98	717157	10.0	9.98	
69 Ethylene Dibromide	107	17.180	17.180	0.000	99	584331	10.0	9.69	
* 70 Chlorobenzene-d5	117	18.103	18.103	0.000	85	1929746	10.0	10.0	
71 Chlorobenzene	112	18.161	18.161	0.000	96	881247	10.0	9.96	
72 Ethylbenzene	91	18.327	18.327	0.000	98	1360995	10.0	9.96	
73 n-Nonane	57	18.508	18.508	0.000	94	638367	10.0	9.75	
74 m-Xylene & p-Xylene	106	18.578	18.578	0.000	0	1092741	20.0	19.9	
76 o-Xylene	106	19.416	19.416	0.000	99	530826	10.0	10.1	
77 Styrene	104	19.464	19.464	0.000	98	842417	10.0	9.97	
78 Bromoform	173	19.896	19.896	0.000	98	780941	10.0	10.6	
S 79 Xylenes, Total	106				0		30.0	30.0	
80 Isopropylbenzene	105	20.141	20.141	0.000	96	1570817	10.0	10.1	
81 1,1,2,2-Tetrachloroethane	83	20.819	20.819	0.000	99	813152	10.0	9.40	
82 N-Propylbenzene	91	20.905	20.905	0.000	99	1891701	10.0	10.1	
83 1,2,3-Trichloropropane	75	20.910	20.910	0.000	96	666448	10.0	10.1	
85 2-Chlorotoluene	91	21.102	21.102	0.000	96	1301481	10.0	10.0	
84 4-Ethyltoluene	105	21.102	21.102	0.000	98	1617707	10.0	10.2	
86 n-Decane	57	21.129	21.129	0.000	89	867911	10.0	10.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
87 1,3,5-Trimethylbenzene	105	21.214	21.214	0.000	94	1289797	10.0	9.95	
88 Alpha Methyl Styrene	118	21.598	21.598	0.000	90	701020	10.0	9.94	
89 tert-Butylbenzene	119	21.721	21.721	0.000	95	1290003	10.0	9.92	
90 1,2,4-Trimethylbenzene	105	21.823	21.823	0.000	97	1303396	10.0	9.93	
91 sec-Butylbenzene	105	22.057	22.057	0.000	99	1963577	10.0	9.88	
92 4-Isopropyltoluene	119	22.271	22.271	0.000	98	1741542	10.0	10.1	
93 1,3-Dichlorobenzene	146	22.287	22.287	0.000	98	1051158	10.0	10.1	
94 1,4-Dichlorobenzene	146	22.426	22.426	0.000	97	1024236	10.0	9.94	
95 Benzyl chloride	91	22.618	22.618	0.000	99	1235982	10.0	10.1	
96 n-Butylbenzene	91	22.842	22.842	0.000	98	1585816	10.0	10.0	
97 Undecane	57	22.895	22.895	0.000	96	966939	10.0	9.96	
98 1,2-Dichlorobenzene	146	22.949	22.949	0.000	98	969581	10.0	9.78	
99 Dodecane	57	24.427	24.427	0.000	95	796427	10.0	10.5	
100 1,2,4-Trichlorobenzene	180	25.345	25.345	0.000	93	756822	10.0	10.5	
101 Hexachlorobutadiene	225	25.542	25.542	0.000	97	809499	10.0	10.4	
102 Naphthalene	128	25.783	25.783	0.000	99	1355017	10.0	10.2	
103 1,2,3-Trichlorobenzene	180	26.236	26.236	0.000	95	546510	10.0	10.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15CAL4w_00730

Amount Added: 200.00

Units: mL

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

Report Date: 18-Oct-2019 11:14:59

Chrom Revision: 2.3 17-Oct-2019 22:00:42

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-02.D

Injection Date: 17-Oct-2019 09:02:30

Instrument ID: CHC.i

Operator ID: ggg

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

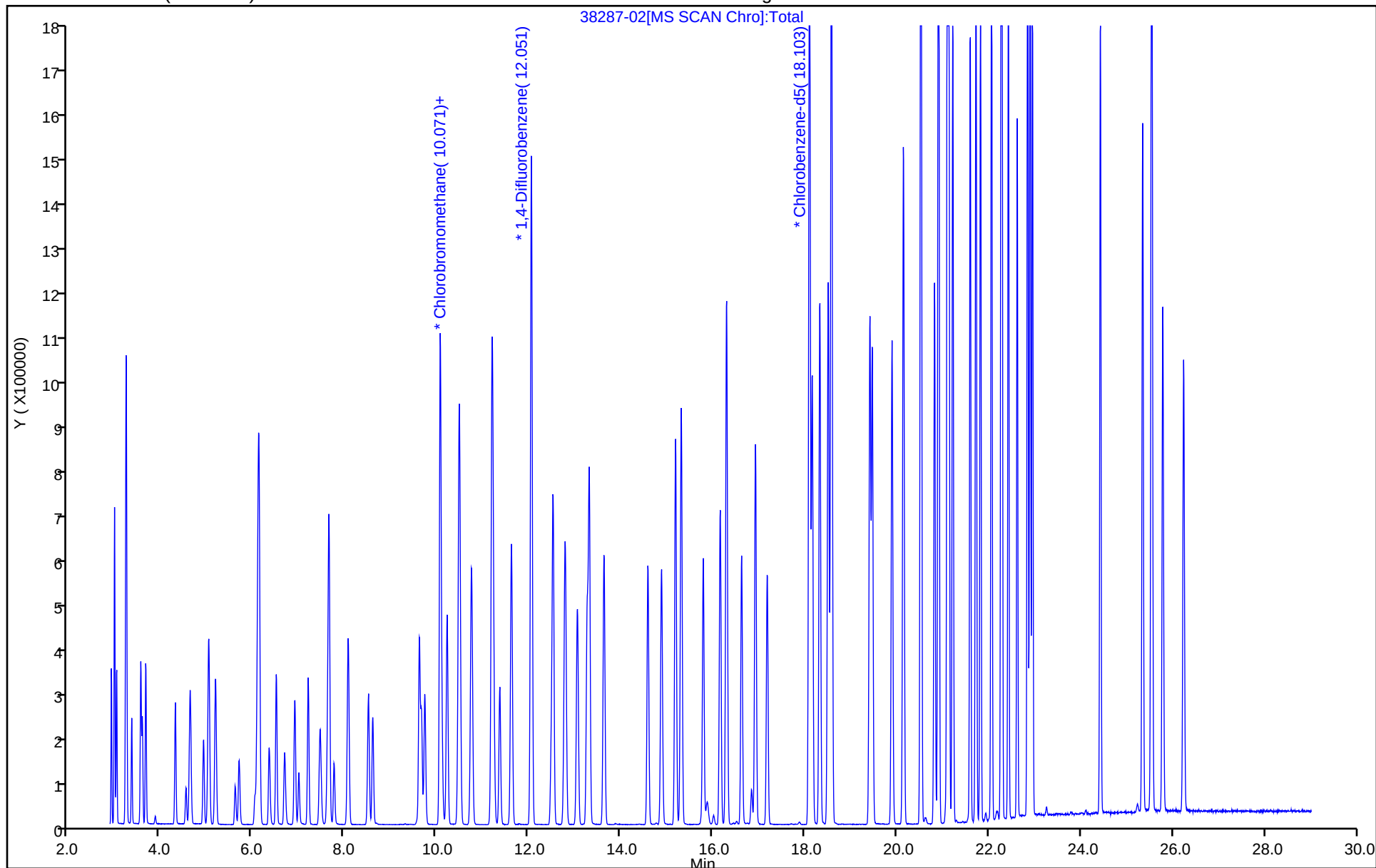
ALS Bottle#: 1

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-02.D

Injection Date: 17-Oct-2019 09:02:30

Instrument ID: CHC.i

Lims ID: ccvis

Client ID:

Operator ID: ggg

ALS Bottle#: 1 Worklist Smp#: 2

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

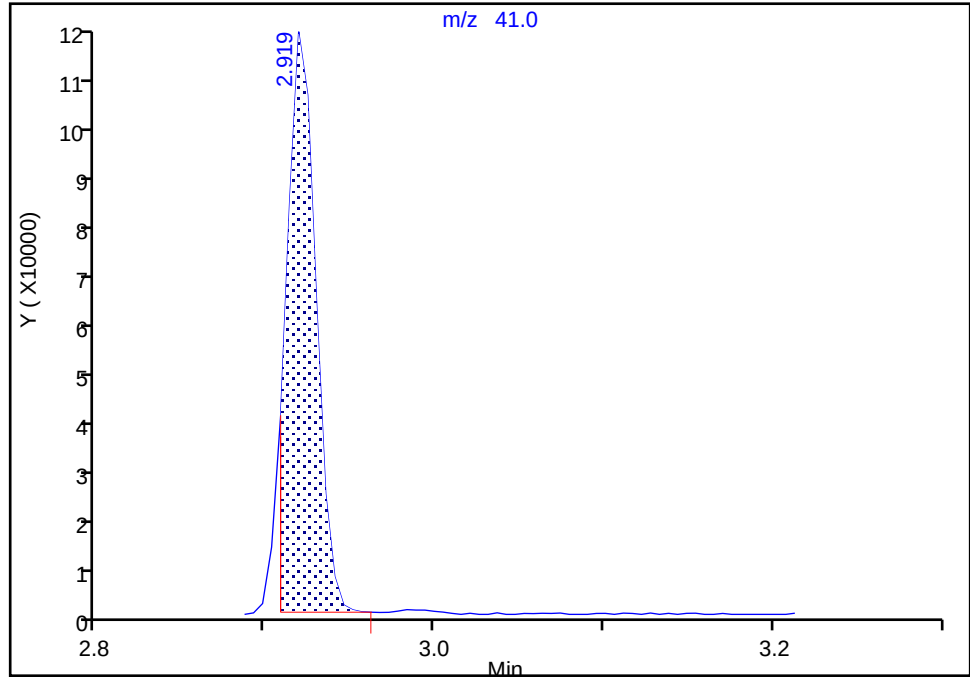
Detector: MS SCAN

1 Propene, CAS: 115-07-1

Signal: 1

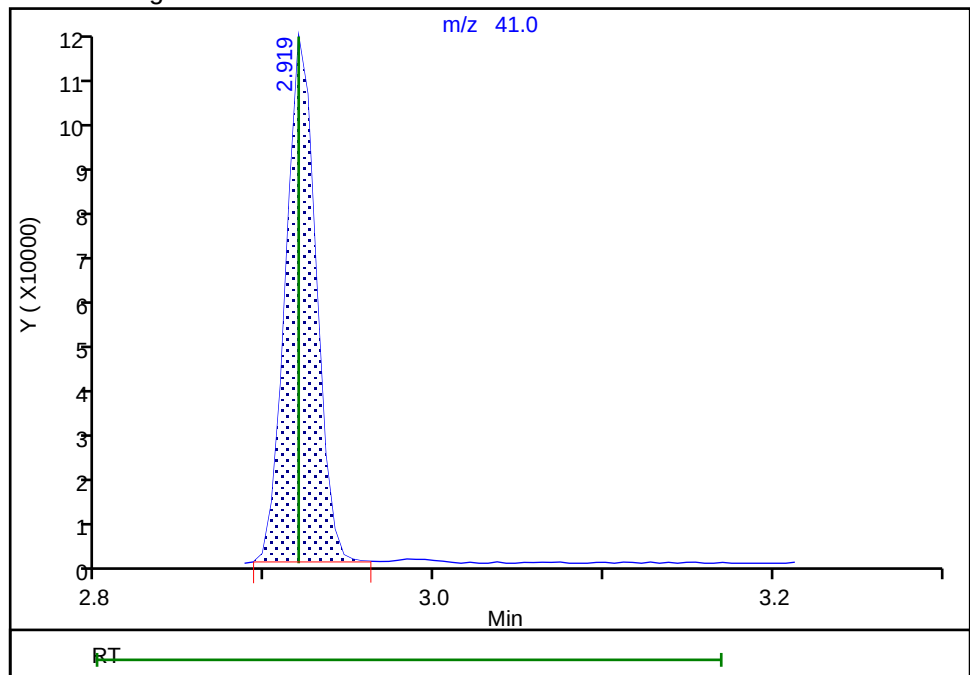
RT: 2.92
Area: 135245
Amount: 8.229979
Amount Units: ppb v/v

Processing Integration Results



RT: 2.92
Area: 140437
Amount: 8.545924
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:14:28

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-01.D
 Lims ID: bfb
 Client ID:
 Sample Type: BFB
 Inject. Date: 22-Sep-2019 11:56:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 200.0 mL Dil. Factor: 1.0000
 Sample Info: 200-0037879-001
 Misc. Info.: bfb
 Operator ID: vtp Instrument ID: CHC.i
 Method: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\TO15_MasterMethod_(v1)_CHC.i.m
 Limit Group: AI_TO15_ICAL
 Last Update: 24-Sep-2019 08:40:35 Calib Date: 23-Sep-2019 10:48:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX0311

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 38 Chlorobromomethane 12 BFB	128		10.092				10.0	ND	
* 49 1,4-Difluorobenzene	114		12.077				10.0	ND	
* 70 Chlorobenzene-d5	117		18.129				10.0	ND	

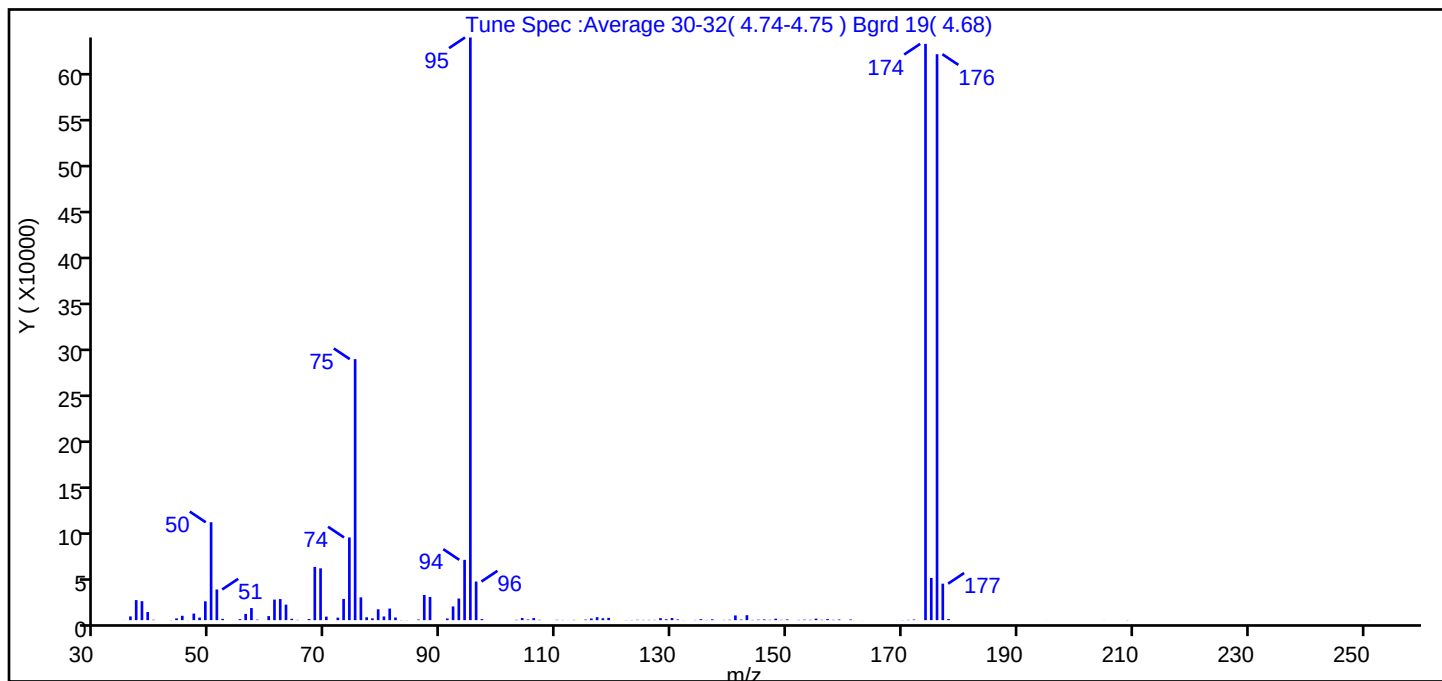
Reagents:

ATTO15CISs_00010 Amount Added: 20.00 Units: mL Run Reagent

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-01.D
Injection Date: 22-Sep-2019 11:56:30 Instrument ID: CHC.i
Lims ID: bfb
Client ID:
Operator ID: vtp ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 200.0 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Tune Method: BFB Method TO-15

12 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100 Percent Relative Abundance	100.0
50	8.0 to 40.0 Percent of m/e 95	16.8
75	30.0 to 66.0 Percent of m/e 95	44.8
96	5.0 to 9.0 Percent of m/e 95	6.6
173	Less than 2.0 Percent of m/e 174	0.0 (0.0)
174	50.0 to 120.0 Percent of m/e 95	98.9
175	4.0 to 9.0 Percent of m/e 174	7.3 (7.3)
176	93.0 to 101.0 Percent of m/e 174	97.1 (98.2)
177	5.0 to 9.0 Percent of m/e 176	6.3 (6.4)

Data File: \\chromna\Burlington\ChromData\CHC.\20190922-37879.b\37879-01.D\TO15_MasterMethod_(v1)_CHC.
Injection Date: 22-Sep-2019 11:56:30
Spectrum: Tune Spec :Average 30-32(4.74-4.75) Bgrd 19(4.68)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 125

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	56	70.00	3857	112.00	71	147.00	368
36.00	4085	71.00	23	113.00	307	148.00	1578
37.00	21872	72.00	2708	115.00	606	149.00	348
38.00	20672	73.00	23112	116.00	1774	150.00	787
39.00	8855	74.00	90160	117.00	3220	152.00	291
40.00	443	75.00	284544	118.00	2025	153.00	505
43.00	142	76.00	24840	119.00	2507	154.00	425
44.00	1912	77.00	3127	120.00	67	155.00	1644
45.00	4755	78.00	1938	122.00	150	156.00	395
46.00	130	79.00	11837	123.00	208	157.00	1164
47.00	7166	80.00	4002	124.00	407	158.00	350
48.00	2767	81.00	12623	125.00	291	159.00	725
49.00	20536	82.00	2843	126.00	319	161.00	706
50.00	106712	83.00	177	127.00	301	163.00	57
51.00	33416	84.00	123	128.00	2185	169.00	71
52.00	1364	86.00	693	129.00	1004	170.00	136
53.00	5	87.00	27456	130.00	2310	171.00	332
54.00	40	88.00	25296	131.00	765	172.00	656
55.00	1062	91.00	1783	132.00	133	174.00	628224
56.00	6814	92.00	14957	133.00	23	175.00	46056
57.00	13201	93.00	23568	134.00	227	176.00	616960
58.00	566	94.00	65752	135.00	1081	177.00	39760
60.00	4416	95.00	635200	136.00	223	178.00	1174
61.00	22416	96.00	42096	137.00	915	195.00	50
62.00	23000	97.00	1177	139.00	260	205.00	61
63.00	16896	103.00	404	140.00	456	208.00	34
64.00	1488	104.00	2282	141.00	5112	209.00	187
65.00	298	105.00	690	142.00	634	251.00	60
66.00	68	106.00	2260	143.00	5398	253.00	19
67.00	1259	107.00	394	144.00	292		
68.00	58048	110.00	398	145.00	524		
69.00	56464	111.00	228	146.00	802		

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20190924-37906.b\37906-01.D
 Lims ID: bfb
 Client ID:
 Sample Type: BFB
 Inject. Date: 24-Sep-2019 09:53:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 200.0 mL Dil. Factor: 1.0000
 Sample Info: 200-0037906-001
 Misc. Info.: bfb
 Operator ID: vtp Instrument ID: CHC.i
 Method: \\chromna\Burlington\ChromData\CHC.i\20190924-37906.b\TO15_MasterMethod_(v1)_CHC.i.m
 Limit Group: AI_TO15_ICAL
 Last Update: 26-Sep-2019 14:51:19 Calib Date: 23-Sep-2019 10:48:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX0335

First Level Reviewer: bunmaa

Date: 26-Sep-2019 14:51:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 38 Chlorobromomethane 12 BFB	128		10.087				10.0	ND	
* 49 1,4-Difluorobenzene	114		12.072				10.0	ND	
* 70 Chlorobenzene-d5	117		18.119				10.0	ND	

Reagents:

ATTO15CISs_00010 Amount Added: 20.00 Units: mL Run Reagent

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20190924-37906.b\37906-01.D

Injection Date: 24-Sep-2019 09:53:30

Instrument ID: CHC.i

Lims ID: bfb

Client ID:

Operator ID: vtp

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 200.0 mL

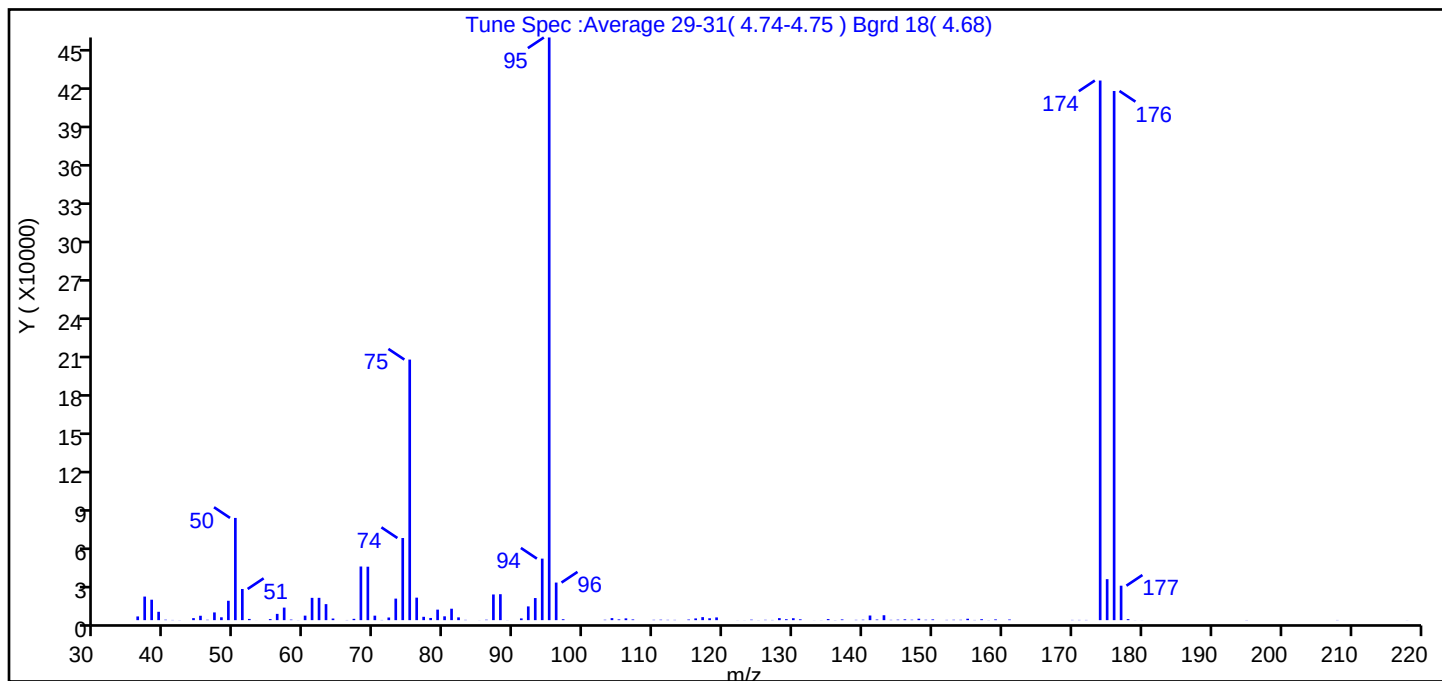
Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Tune Method: BFB Method TO-15

12 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100 Percent Relative Abundance	100.0
50	8.0 to 40.0 Percent of m/e 95	17.5
75	30.0 to 66.0 Percent of m/e 95	44.7
96	5.0 to 9.0 Percent of m/e 95	6.4
173	Less than 2.0 Percent of m/e 174	0.0 (0.0)
174	50.0 to 120.0 Percent of m/e 95	92.6
175	4.0 to 9.0 Percent of m/e 174	7.0 (7.6)
176	93.0 to 101.0 Percent of m/e 174	90.8 (98.1)
177	5.0 to 9.0 Percent of m/e 176	5.9 (6.5)

Data File: \\chromna\Burlington\ChromData\CHC.\20190924-37906.b\37906-01.D\TO15_MasterMethod_(v1)_CHC.
Injection Date: 24-Sep-2019 09:53:30
Spectrum: Tune Spec :Average 29-31(4.74-4.75) Bgrd 18(4.68)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 121

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2928	70.00	3540	110.00	259	146.00	640
37.00	18608	71.00	147	111.00	359	147.00	333
38.00	16135	72.00	2085	112.00	241	148.00	1132
39.00	6586	73.00	17000	113.00	207	149.00	301
40.00	345	74.00	64832	115.00	486	150.00	589
41.00	157	75.00	205696	116.00	1359	152.00	206
42.00	84	76.00	17760	117.00	2375	153.00	300
44.00	1596	77.00	2631	118.00	1478	154.00	264
45.00	3462	78.00	1721	119.00	2151	155.00	1101
46.00	290	79.00	8301	122.00	58	156.00	155
47.00	6095	80.00	3013	123.00	55	157.00	735
48.00	2246	81.00	9023	124.00	379	158.00	69
49.00	15296	82.00	2185	125.00	68	159.00	585
50.00	80696	83.00	220	126.00	259	161.00	497
51.00	24592	85.00	53	127.00	152	170.00	188
52.00	952	86.00	337	128.00	1591	171.00	182
53.00	26	87.00	20272	129.00	728	172.00	160
55.00	813	88.00	20488	130.00	1511	174.00	425984
56.00	4950	89.00	61	131.00	647	175.00	32344
57.00	9903	91.00	1363	133.00	48	176.00	417728
58.00	422	92.00	10850	134.00	65	177.00	27192
59.00	63	93.00	17440	135.00	840	178.00	781
60.00	3554	94.00	48568	136.00	100	179.00	53
61.00	17608	95.00	459968	137.00	565	180.00	53
62.00	17616	96.00	29664	139.00	236	195.00	118
63.00	12646	97.00	703	140.00	343	208.00	138
64.00	1277	103.00	299	141.00	3649	209.00	17
66.00	126	104.00	1605	142.00	480	218.00	53
67.00	1033	105.00	593	143.00	3870		
68.00	42344	106.00	1394	144.00	234		
69.00	42184	107.00	559	145.00	368		

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-01.D
 Lims ID: bfb
 Client ID:
 Sample Type: BFB
 Inject. Date: 17-Oct-2019 08:16:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 200.0 mL Dil. Factor: 1.0000
 Sample Info: 200-0038287-001
 Misc. Info.: bfb
 Operator ID: ggg Instrument ID: CHC.i
 Method: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\TO15_MasterMethod_(v1)_CHC.i.m
 Limit Group: AI_TO15_ICAL
 Last Update: 18-Oct-2019 11:10:56 Calib Date: 23-Sep-2019 10:48:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX0329

First Level Reviewer: bunmaa

Date: 18-Oct-2019 11:10:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 38 Chlorobromomethane 12 BFB	128		10.071				10.0	ND	
* 49 1,4-Difluorobenzene	114		12.056				10.0	ND	
* 70 Chlorobenzene-d5	117		18.103				10.0	ND	

Reagents:

ATTO15CISs_00010 Amount Added: 20.00 Units: mL Run Reagent

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-01.D

Injection Date: 17-Oct-2019 08:16:30

Instrument ID: CHC.i

Lims ID: bfb

Client ID:

Operator ID: ggg

ALS Bottle#:

1

Worklist Smp#: 1

Injection Vol: 200.0 mL

Dil. Factor:

1.0000

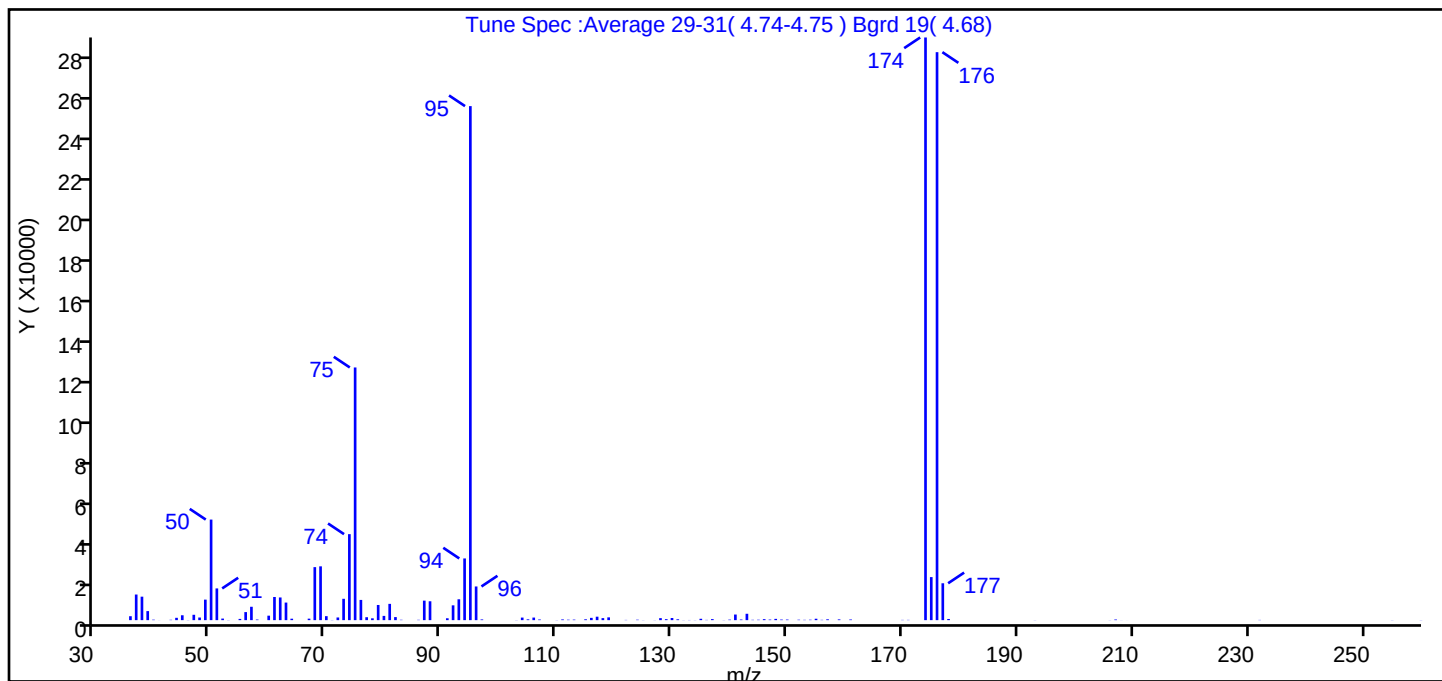
Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group:

AI_TO15_ICAL

Tune Method: BFB Method TO-15

12 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100 Percent Relative Abundance	100.0
50	8.0 to 40.0 Percent of m/e 95	19.6
75	30.0 to 66.0 Percent of m/e 95	49.2
96	5.0 to 9.0 Percent of m/e 95	6.6
173	Less than 2.0 Percent of m/e 174	0.0 (0.0)
174	50.0 to 120.0 Percent of m/e 95	113.4
175	4.0 to 9.0 Percent of m/e 174	8.4 (7.4)
176	93.0 to 101.0 Percent of m/e 174	110.5 (97.5)
177	5.0 to 9.0 Percent of m/e 176	7.2 (6.5)

Data File: \\chromna\Burlington\ChromData\CHC.\20191017-38287.b\38287-01.D\TO15_MasterMethod_(v1)_CHC.
Injection Date: 17-Oct-2019 08:16:30
Spectrum: Tune Spec :Average 29-31(4.74-4.75) Bgrd 19(4.68)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 116

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1937	70.00	1960	110.00	64	145.00	207
37.00	12612	71.00	73	111.00	353	146.00	483
38.00	11555	72.00	1313	112.00	220	147.00	284
39.00	4451	73.00	10507	113.00	260	148.00	626
40.00	230	74.00	42336	115.00	420	149.00	284
41.00	27	75.00	124392	116.00	1125	150.00	288
43.00	170	76.00	9954	117.00	1699	152.00	214
44.00	1148	77.00	1443	118.00	997	153.00	153
45.00	2401	78.00	904	119.00	1369	154.00	215
46.00	65	79.00	7462	122.00	114	155.00	687
47.00	2640	80.00	2091	124.00	220	156.00	149
48.00	1289	81.00	8015	125.00	50	157.00	406
49.00	10101	82.00	1502	127.00	50	159.00	368
50.00	49512	83.00	177	128.00	984	161.00	320
51.00	15612	86.00	163	129.00	484	170.00	124
52.00	773	87.00	9602	130.00	1049	171.00	129
53.00	66	88.00	9292	131.00	419	174.00	286848
55.00	607	91.00	922	132.00	53	175.00	21192
56.00	3960	92.00	7289	133.00	83	176.00	279616
57.00	6584	93.00	10275	134.00	56	177.00	18152
58.00	299	94.00	30376	135.00	671	178.00	569
60.00	2201	95.00	253056	136.00	123	193.00	52
61.00	11397	96.00	16576	137.00	504	206.00	50
62.00	11166	97.00	349	139.00	59	207.00	312
63.00	8651	103.00	64	140.00	262	208.00	31
64.00	709	104.00	1261	141.00	2762	209.00	15
67.00	732	105.00	397	142.00	306	232.00	112
68.00	26096	106.00	1266	143.00	3135	255.00	60
69.00	26488	107.00	322	144.00	165	260.00	65

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-148544/4
 Matrix: Air Lab File ID: 38287-04.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 10/17/2019 10:50
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 148544 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.20
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.50
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.40
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	5.0
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.20
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.50
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.20
67-64-1	Acetone	58.08	5.0	U	5.0	5.0
71-43-2	Benzene	78.11	0.20	U	0.20	0.20
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.20
593-60-2	Bromoethene (Vinyl Bromide)	106.96	0.20	U	0.20	0.20
75-25-2	Bromoform	252.75	0.20	U	0.20	0.20
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.20
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	0.50
56-23-5	Carbon tetrachloride	153.81	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.20
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.50
67-66-3	Chloroform	119.38	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-148544/4
 Matrix: Air Lab File ID: 38287-04.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 10/17/2019 10:50
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 148544 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
74-87-3	Chloromethane	50.49	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.20
110-82-7	Cyclohexane	84.16	0.20	U	0.20	0.20
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.20
75-71-8	Dichlorodifluoromethane	120.91	0.50	U	0.50	0.50
100-41-4	Ethylbenzene	106.17	0.20	U	0.20	0.20
76-13-1	Freon TF	187.38	0.20	U	0.20	0.20
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.20
67-63-0	Isopropyl alcohol	60.10	5.0	U	5.0	5.0
179601-23-1	m,p-Xylene	106.17	0.50	U	0.50	0.50
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.50
78-93-3	Methyl Ethyl Ketone	72.11	0.50	U	0.50	0.50
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	0.50
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.20
75-09-2	Methylene Chloride	84.93	0.50	U	0.50	0.50
142-82-5	n-Heptane	100.21	0.20	U	0.20	0.20
110-54-3	n-Hexane	86.17	0.20	U	0.20	0.20
100-42-5	Styrene	104.15	0.20	U	0.20	0.20
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	5.0
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	5.0
108-88-3	Toluene	92.14	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.20
79-01-6	Trichloroethene	131.39	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	137.37	0.20	U	0.20	0.20
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	106.17	0.70	U	0.70	0.70
95-47-6	Xylene, o-	106.17	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 200-148544/4

Matrix: Air Lab File ID: 38287-04.D

Analysis Method: TO-15 Date Collected: _____

Sample wt/vol: 200 (mL) Date Analyzed: 10/17/2019 10:50

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 148544 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	1.1
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	1.4
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	1.1
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	0.81
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.79
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	3.7
95-63-6	1,2,4-Trimethylbenzene	120.20	0.98	U	0.98	0.98
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	1.5
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	1.2
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	0.81
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	1.6
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.92
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	1.4
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.98
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.44
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	1.2
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	1.2
123-91-1	1,4-Dioxane	88.11	18	U	18	18
540-84-1	2,2,4-Trimethylpentane	114.23	0.93	U	0.93	0.93
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	1.0
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	1.6
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.98
67-64-1	Acetone	58.08	12	U	12	12
71-43-2	Benzene	78.11	0.64	U	0.64	0.64
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	1.3
593-60-2	Bromoethene (Vinyl Bromide)	106.96	0.87	U	0.87	0.87
75-25-2	Bromoform	252.75	2.1	U	2.1	2.1
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.78
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	1.6
56-23-5	Carbon tetrachloride	153.81	1.3	U	1.3	1.3
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.92
75-00-3	Chloroethane	64.52	1.3	U	1.3	1.3
67-66-3	Chloroform	119.38	0.98	U	0.98	0.98

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-148544/4
 Matrix: Air Lab File ID: 38287-04.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 10/17/2019 10:50
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 148544 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
74-87-3	Chloromethane	50.49	1.0	U	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.79
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.91
110-82-7	Cyclohexane	84.16	0.69	U	0.69	0.69
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	1.7
75-71-8	Dichlorodifluoromethane	120.91	2.5	U	2.5	2.5
100-41-4	Ethylbenzene	106.17	0.87	U	0.87	0.87
76-13-1	Freon TF	187.38	1.5	U	1.5	1.5
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	2.1
67-63-0	Isopropyl alcohol	60.10	12	U	12	12
179601-23-1	m,p-Xylene	106.17	2.2	U	2.2	2.2
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	2.0
78-93-3	Methyl Ethyl Ketone	72.11	1.5	U	1.5	1.5
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	2.0
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.72
75-09-2	Methylene Chloride	84.93	1.7	U	1.7	1.7
142-82-5	n-Heptane	100.21	0.82	U	0.82	0.82
110-54-3	n-Hexane	86.17	0.70	U	0.70	0.70
100-42-5	Styrene	104.15	0.85	U	0.85	0.85
75-65-0	tert-Butyl alcohol	74.12	15	U	15	15
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	1.4
109-99-9	Tetrahydrofuran	72.11	15	U	15	15
108-88-3	Toluene	92.14	0.75	U	0.75	0.75
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.79
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.91
79-01-6	Trichloroethene	131.39	1.1	U	1.1	1.1
75-69-4	Trichlorofluoromethane	137.37	1.1	U	1.1	1.1
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.51
1330-20-7	Xylene (total)	106.17	3.0	U	3.0	3.0
95-47-6	Xylene, o-	106.17	0.87	U	0.87	0.87

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-04.D

Lims ID: mb

Client ID:

Sample Type: MB

Inject. Date: 17-Oct-2019 10:50:30

ALS Bottle#: 3

Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Sample Info: 200-0038287-004

Misc. Info.: MB

Operator ID: ggg

Instrument ID: CHC.i

Method: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\TO15_MasterMethod_(v1)_CHC.i.m

Limit Group: AI_TO15_ICAL

Last Update: 18-Oct-2019 11:30:01

Calib Date: 23-Sep-2019 10:48:30

Integrator: RTE

ID Type: Deconvolution ID

Quant Method: Internal Standard

Quant By: Initial Calibration

Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D

Column 1 : RTX-624 (0.32 mm)

Det: MS SCAN

Process Host: CTX0329

First Level Reviewer: bunmaa

Date: 18-Oct-2019 11:30:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	2.925	2.925	-0.005	90	2606		0.1575	M
2 Dichlorodifluoromethane	85	2.994	2.994	0.000	97	4227		0.0782	
3 Chlorodifluoromethane	51	3.042	3.042	0.000	95	4074		0.1317	M
4 1,2-Dichloro-1,1,2,2-tetra	85	3.250	3.245	0.005	90	5285		0.0884	
5 Chloromethane	50	3.368	3.368	0.000	97	2566		0.1396	
6 Butane	43	3.560	3.560	-0.005	97	3198		0.1095	M
7 Vinyl chloride	62	3.592	3.597	-0.005	95	1763		0.0766	
8 Butadiene	54	3.672	3.672	0.000	87	1035		0.0655	
9 Bromomethane	94	4.318	4.318	0.000	87	1457		0.0671	
10 Chloroethane	64		4.547					ND	Ua
11 2-Methylbutane	43	4.638	4.638	0.000	63	2013		0.0921	a
13 Vinyl bromide	106	4.931	4.931	0.000	47	1441		0.0712	
14 Trichlorofluoromethane	101	5.038	5.038	-0.005	96	5085		0.0942	M
15 Pentane	43	5.182	5.188	-0.006	94	3170		0.0915	
16 Ethanol	45	5.641	5.620	0.021	52	1753		0.2294	
17 Ethyl ether	59	5.732	5.732	0.032	94	775		0.0625	M
18 Acrolein	56		6.041					ND	U
19 1,1,2-Trichloro-1,2,2-trif	101	6.100	6.116	-0.016	90	3092		0.0646	
20 1,1-Dichloroethene	96	6.121	6.137	-0.016	94	1803		0.0802	
21 Acetone	43		6.356					ND	
22 Carbon disulfide	76	6.511	6.511	0.000	98	6050		0.0998	
23 Isopropyl alcohol	45		6.693					ND	
24 3-Chloro-1-propene	41	6.911	6.911	0.000	28	941		0.0393	7M
25 Acetonitrile	41		7.002					ND	U
27 Methylene Chloride	49	7.200	7.200	-0.005	82	1761		0.0778	M
28 2-Methyl-2-propanol	59	7.530	7.461	0.069	4	2654		0.0704	
29 Methyl tert-butyl ether	73	7.685	7.642	0.043	86	4122		0.0738	
30 trans-1,2-Dichloroethene	61	7.658	7.653	0.005	95	2228		0.0744	
31 Acrylonitrile	53	7.781	7.781	0.016	28	712		0.0557	M
32 Hexane	57	8.075	8.075	0.000	92	1244		0.0431	M
33 1,1-Dichloroethane	63	8.507	8.512	-0.005	96	2806		0.0703	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
34 Vinyl acetate	43		8.608					ND	U
35 cis-1,2-Dichloroethene	96	9.622	9.622	0.000	92	2097		0.0808	
36 2-Butanone (MEK)	72	9.681	9.665	0.016	97	943		0.0901	
37 Ethyl acetate	88		9.740					ND	
* 38 Chlorobromomethane	128	10.071	10.071	0.000	82	425375	10.0	10.0	
39 Tetrahydrofuran	42	10.156	10.108	0.048	77	2077		0.0927	
S 40 1,2-Dichloroethene, Total	61				0			0.1552	
41 Chloroform	83	10.220	10.220	0.000	48	3923		0.0762	
42 Cyclohexane	84	10.482	10.482	-0.005	78	2221		0.0725	M
43 1,1,1-Trichloroethane	97	10.487	10.487	0.000	94	4162		0.0776	
44 Carbon tetrachloride	117	10.749	10.754	-0.005	89	3589		0.0636	
45 Benzene	78	11.192	11.192	-0.005	94	6636		0.0888	M
46 Isooctane	57	11.208	11.213	-0.005	88	8339		0.0725	
47 1,2-Dichloroethane	62		11.368					ND	MUa
48 n-Heptane	43	11.629	11.629	0.005	94	3927		0.0852	M
* 49 1,4-Difluorobenzene	114	12.051	12.056	-0.005	93	1992434	10.0	10.0	
50 n-Butanol	56		12.488					ND	
51 Trichloroethene	95	12.515	12.515	-0.011	95	2758		0.0737	M
A 52 GRO	1	12.883	(4.628-21.139)		0	5803937		0	
53 1,2-Dichloropropane	63	13.049	13.054	-0.005	90	2281		0.0716	
55 Methyl methacrylate	69	13.284	13.284	0.016	46	1781		0.0619	M
56 1,4-Dioxane	88		13.305					ND	
57 Dibromomethane	174	13.310	13.316	-0.006	91	3266		0.0804	
58 Dichlorobromomethane	83	13.630	13.630	0.000	96	4480		0.0720	
A 59 TVOC as Toluene	1	14.583	(2.920-26.246)		0	6014816		0	
60 cis-1,3-Dichloropropene	75	14.596	14.591	0.005	93	3330		0.0642	
61 4-Methyl-2-pentanone (MIBK)	43		14.885					ND	
62 Toluene	92	15.200	15.189	0.011	93	4958		0.0898	
63 n-Octane	43	15.306	15.312	-0.006	92	5573		0.0759	
64 trans-1,3-Dichloropropene	75	15.792	15.792	0.000	42	3036		0.0634	M
65 1,1,2-Trichloroethane	83	16.160	16.160	0.000	41	1956		0.0673	M
66 Tetrachloroethene	166	16.299	16.299	0.000	94	5266		0.0963	
67 2-Hexanone	43		16.624					ND	U
68 Chlorodibromomethane	129	16.923	16.923	0.000	97	3861		0.0594	
69 Ethylene Dibromide	107	17.185	17.185	0.005	96	3838		0.0704	M
* 70 Chlorobenzene-d5	117	18.103	18.103	0.000	85	1744594	10.0	10.0	
71 Chlorobenzene	112	18.162	18.162	0.000	64	6586		0.0823	
72 Ethylbenzene	91	18.327	18.327	0.000	98	9751		0.0790	
73 n-Nonane	57	18.508	18.508	0.000	93	4297		0.0726	
74 m-Xylene & p-Xylene	106	18.578	18.578	0.000	0	7206		0.1452	
76 o-Xylene	106	19.416	19.416	0.000	96	3380		0.0711	M
77 Styrene	104	19.464	19.464	-0.005	29	2513		0.0329	M
78 Bromoform	173	19.896	19.896	0.000	93	2922		0.0438	
S 79 Xylenes, Total	106				0			0.2163	
80 Isopropylbenzene	105	20.141	20.147	-0.006	96	10327		0.0735	
81 1,1,2,2-Tetrachloroethane	83	20.825	20.819	0.006	95	4213		0.0539	
82 N-Propylbenzene	91	20.910	20.905	0.005	97	10891		0.0645	
83 1,2,3-Trichloropropane	75		20.910					ND	
85 2-Chlorotoluene	91	21.102	21.102	0.000	94	8179		0.0699	
84 4-Ethyltoluene	105	21.107	21.102	0.005	87	8273		0.0577	
86 n-Decane	57		21.129					ND	
87 1,3,5-Trimethylbenzene	105	21.220	21.214	0.006	94	6936		0.0592	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
88 Alpha Methyl Styrene	118	21.593	21.598	-0.005	80	1568		0.0246	
89 tert-Butylbenzene	119	21.721	21.721	0.000	94	7731		0.0658	
90 1,2,4-Trimethylbenzene	105	21.823	21.817	0.006	96	5500		0.0463	
91 sec-Butylbenzene	105	22.063	22.057	0.006	98	8473		0.0472	
92 4-Isopropyltoluene	119	22.271	22.271	0.000	97	4539		0.0292	
93 1,3-Dichlorobenzene	146	22.292	22.287	0.005	91	3993		0.0424	
94 1,4-Dichlorobenzene	146	22.431	22.426	0.005	95	4703		0.0505	
95 Benzyl chloride	91	22.623	22.618	0.005	1	2205		0.0199	
96 n-Butylbenzene	91	22.847	22.842	0.005	9	2276		0.0159	
97 Undecane	57		22.895					ND	U
98 1,2-Dichlorobenzene	146	22.954	22.949	0.005	93	3466		0.0387	
99 Dodecane	57		24.427					ND	U
100 1,2,4-Trichlorobenzene	180	25.356	25.345	0.011	91	3737		0.0572	
101 Hexachlorobutadiene	225		25.542					ND	U
102 Naphthalene	128	25.793	25.783	0.010	98	9762		0.0813	
103 1,2,3-Trichlorobenzene	180	26.247	26.236	0.011	81	3478		0.0724	
104 Freon 115 TIC	1		0.000					ND	
105 Difluoroethane TIC	1		0.000					ND	
106 Total Alkanes TIC	1		0.000					ND	
107 1,1,1-Trifluoro-2,2-dichlo	1		0.000					ND	
110 Chlorotrifluoroethene TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

Report Date: 18-Oct-2019 11:30:02

Chrom Revision: 2.3 17-Oct-2019 22:00:42

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-04.D

Injection Date: 17-Oct-2019 10:50:30

Instrument ID: CHC.i

Operator ID: ggg

Lims ID: mb

Worklist Smp#: 4

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

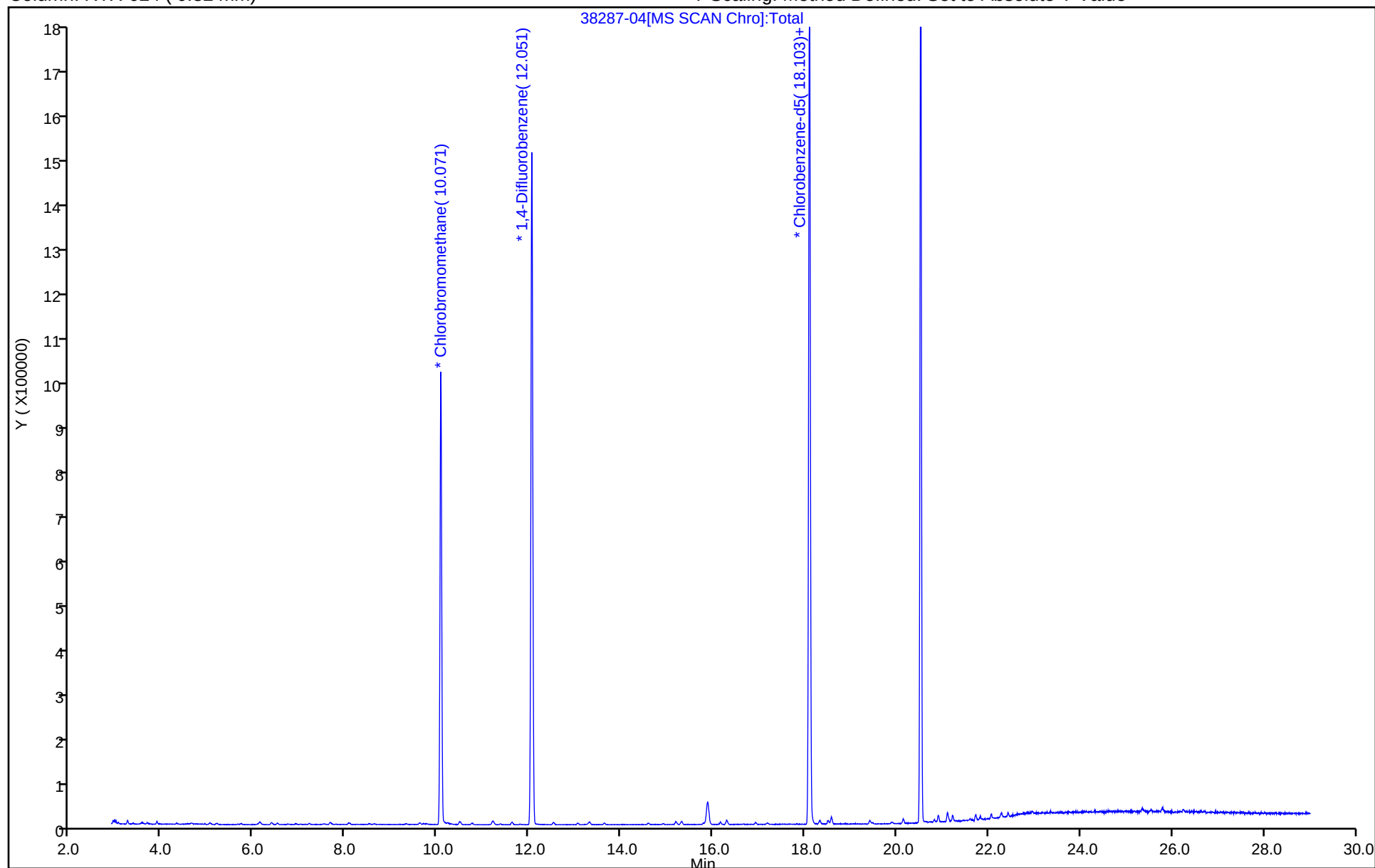
ALS Bottle#: 3

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-04.D

Injection Date: 17-Oct-2019 10:50:30

Instrument ID: CHC.i

Lims ID: mb

Client ID:

Operator ID: ggg

ALS Bottle#:

3

Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

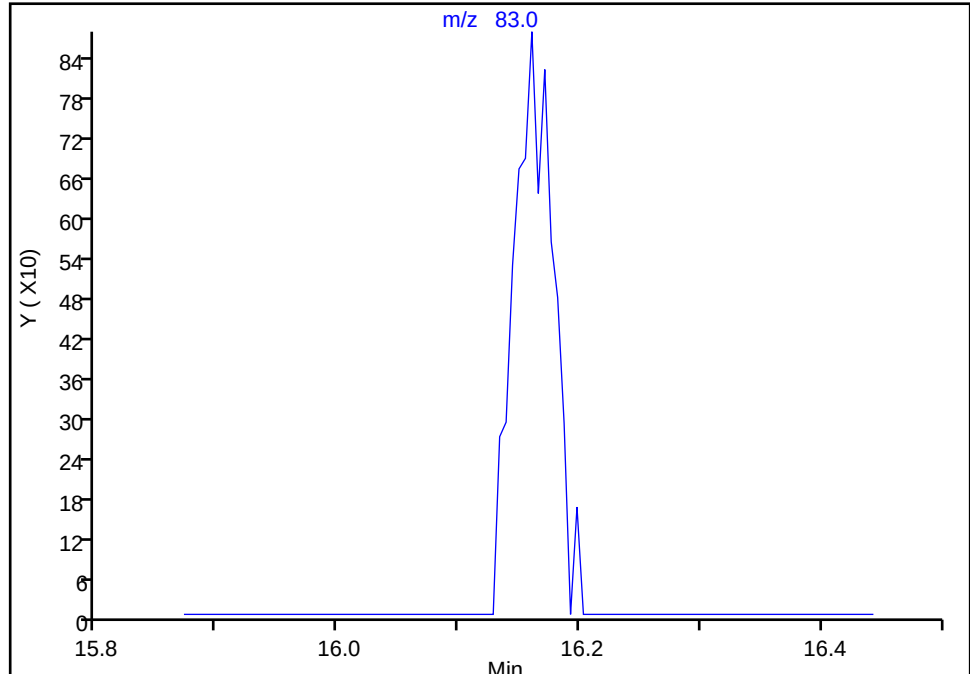
65 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

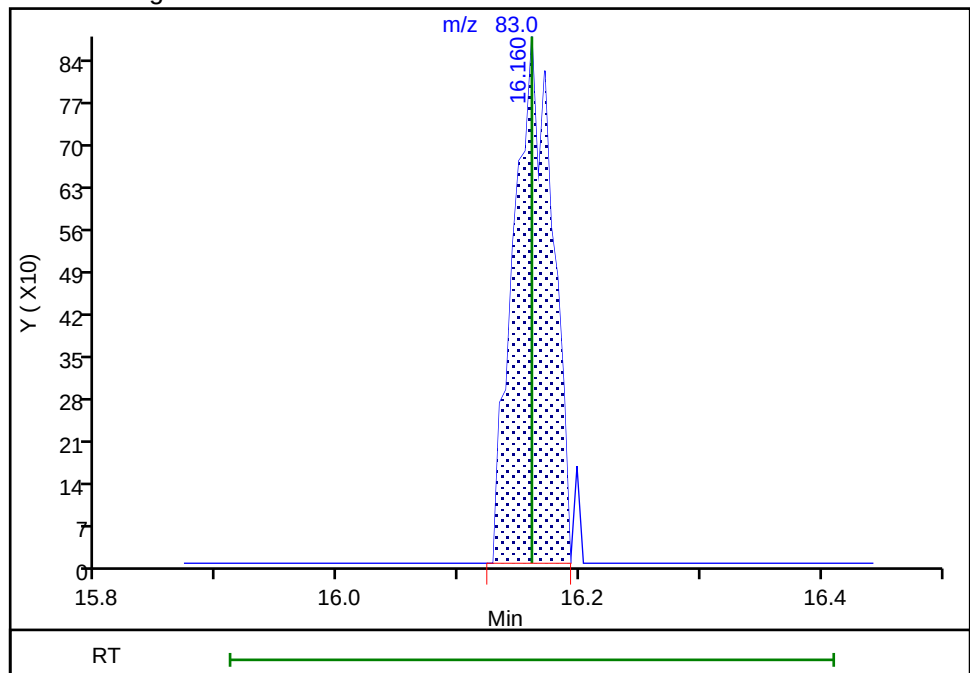
Not Detected

Expected RT: 16.16

Processing Integration Results



Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:25:57

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-04.D

Injection Date: 17-Oct-2019 10:50:30

Instrument ID: CHC.i

Lims ID: mb

Client ID:

Operator ID: ggg

ALS Bottle#:

3

Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

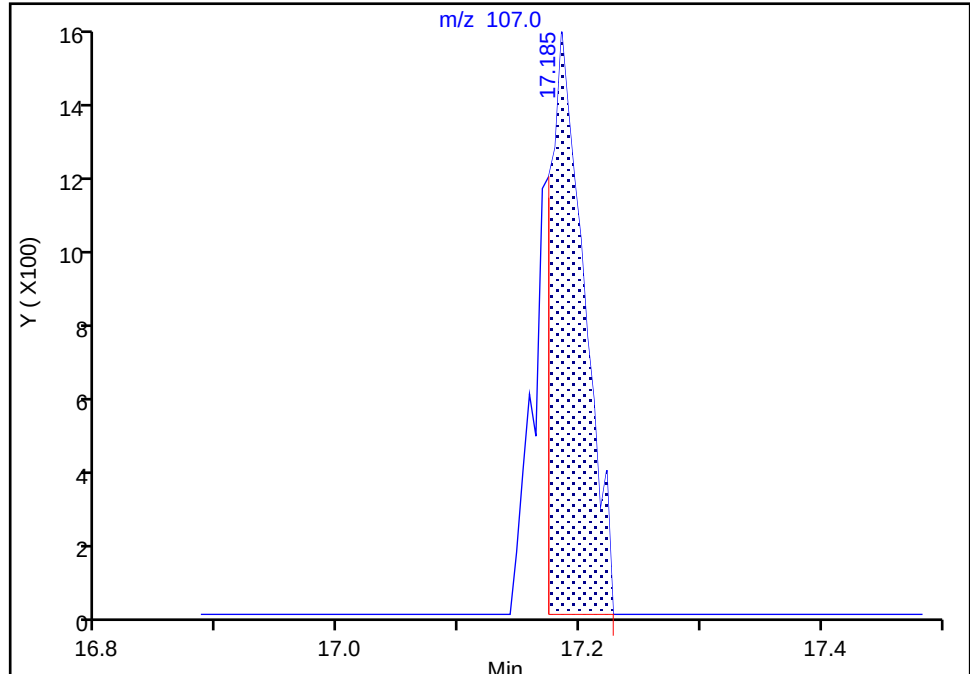
Detector: MS SCAN

69 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

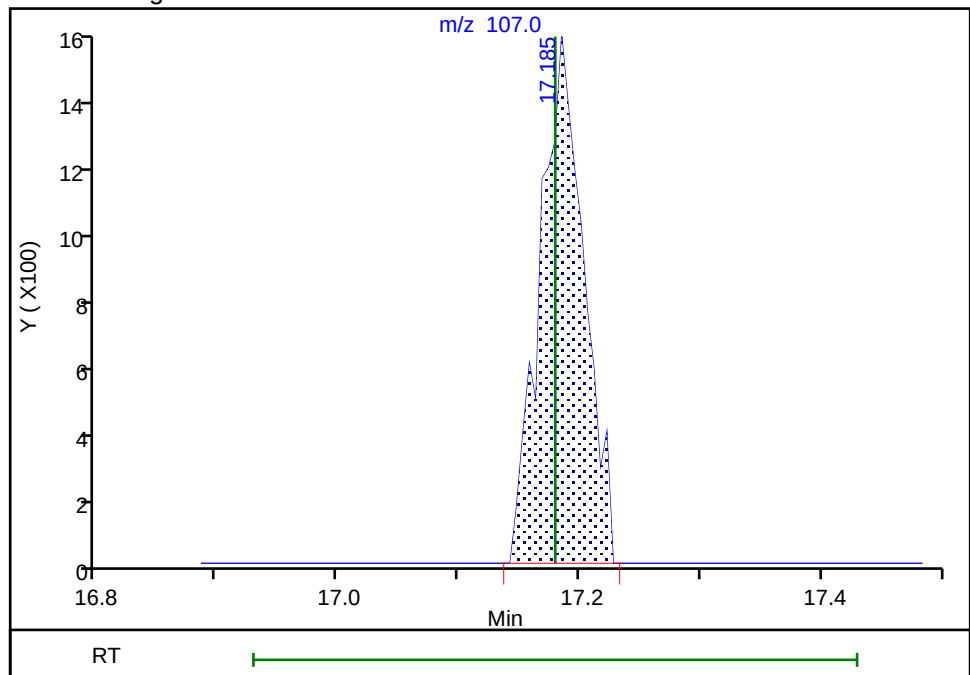
RT: 17.18
Area: 2973
Amount: 0.054525
Amount Units: ppb v/v

Processing Integration Results



RT: 17.18
Area: 3838
Amount: 0.070389
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:26:33

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

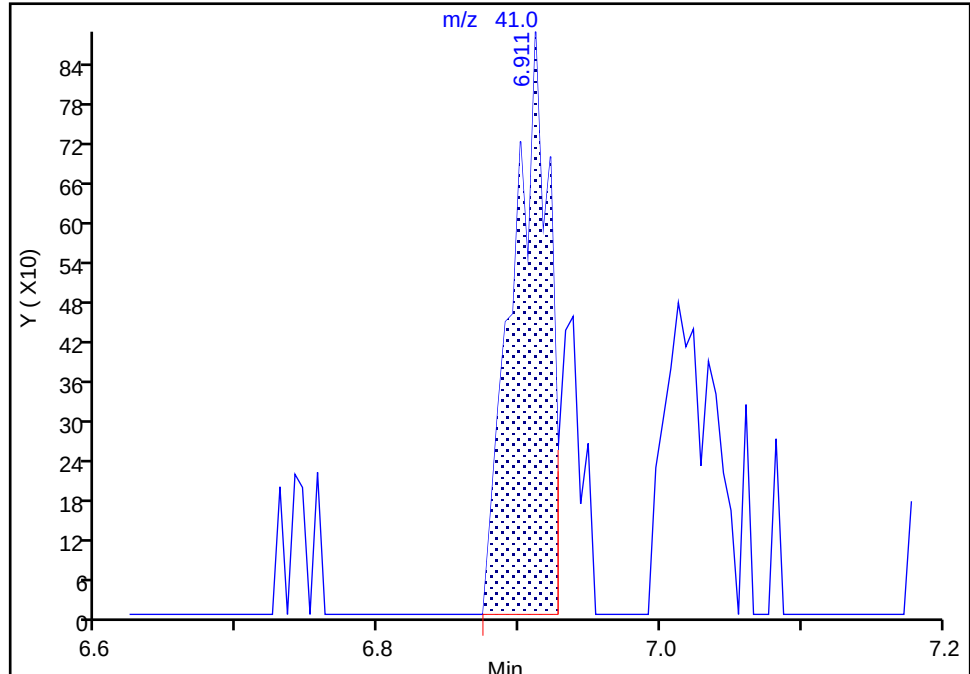
Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-04.D
Injection Date: 17-Oct-2019 10:50:30 Instrument ID: CHC.i
Lims ID: mb
Client ID:
Operator ID: ggg ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

24 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

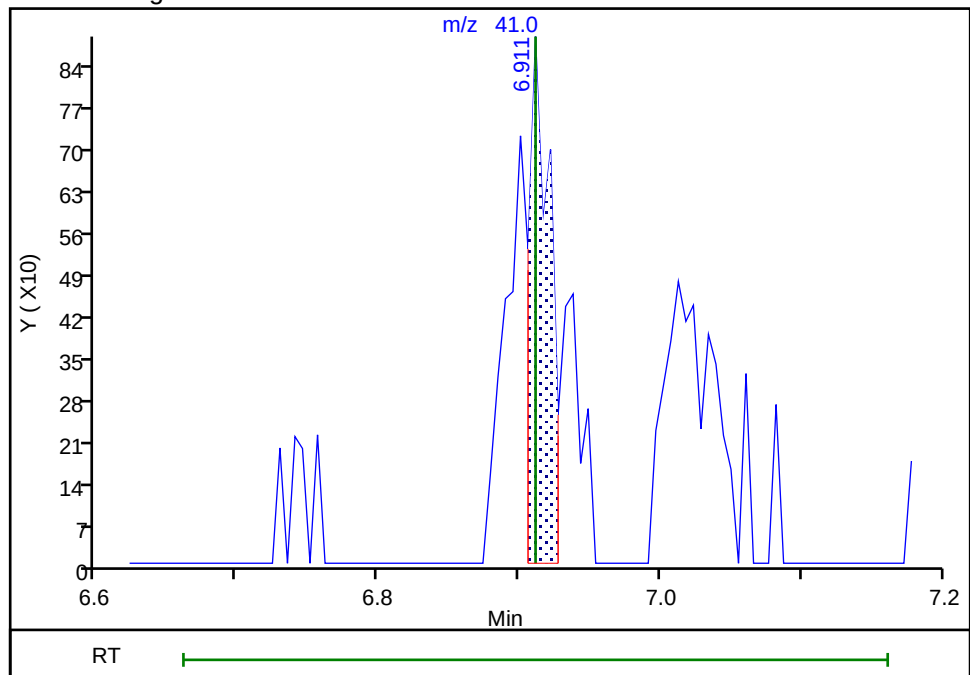
RT: 6.91
Area: 1608
Amount: 0.067163
Amount Units: ppb v/v

Processing Integration Results



RT: 6.91
Area: 941
Amount: 0.039304
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:20:29
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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Eurofins TestAmerica, Burlington

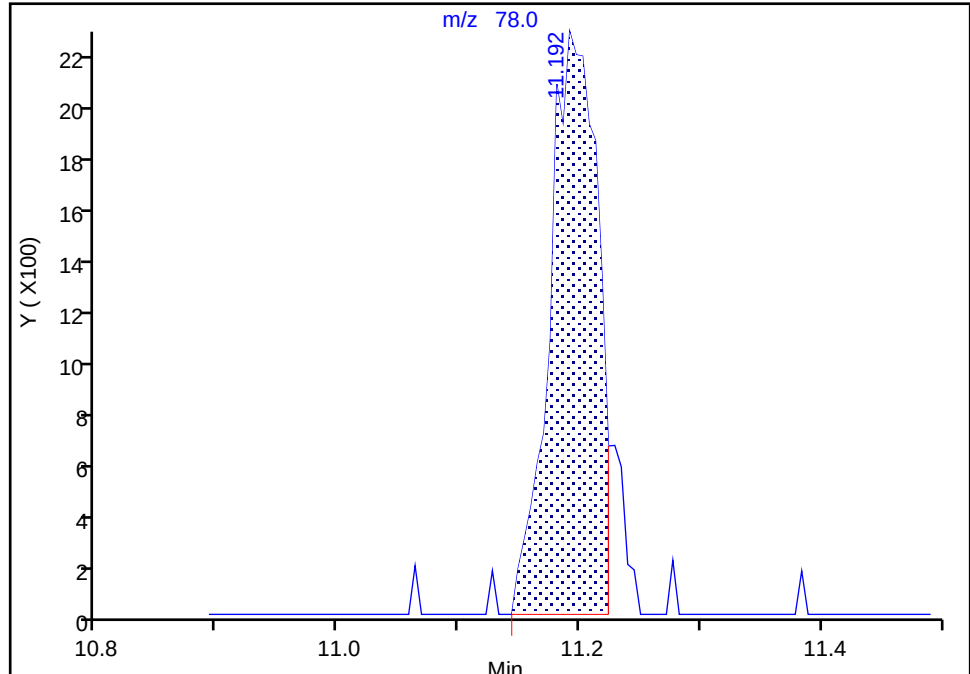
Data File:	\\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-04.D		
Injection Date:	17-Oct-2019 10:50:30	Instrument ID:	CHC.i
Lims ID:	mb		
Client ID:			
Operator ID:	ggg	ALS Bottle#:	3
Purge Vol:	200.000 mL	Dil. Factor:	1.0000
Method:	TO15_MasterMethod_(v1)_CHC.i	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector:	MS SCAN
		Worklist Smp#:	4

45 Benzene, CAS: 71-43-2

Signal: 1

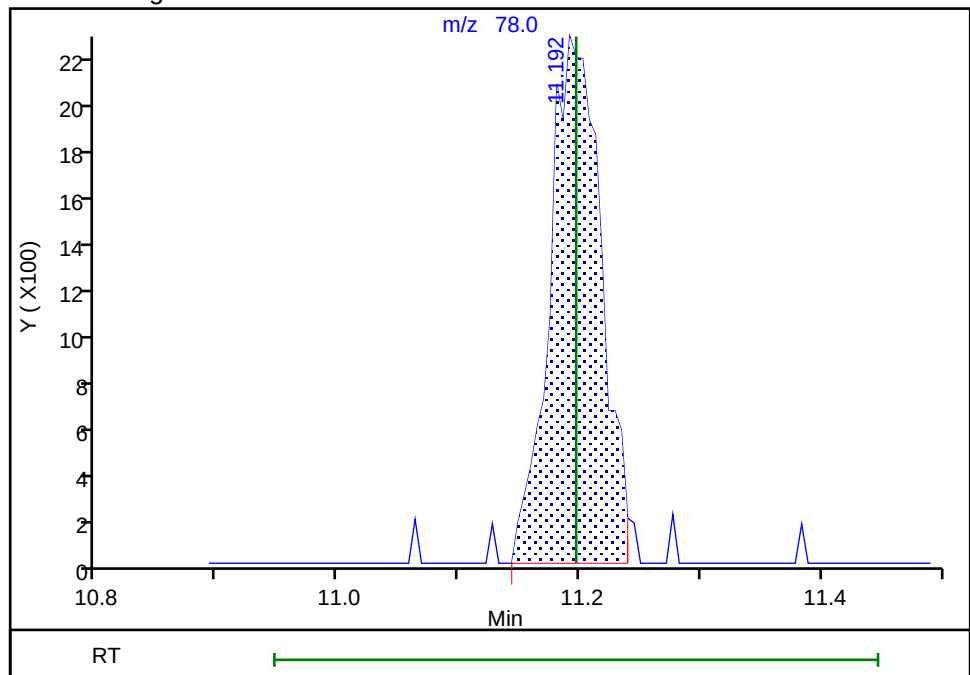
RT: 11.19
Area: 6184
Amount: 0.082736
Amount Units: ppb v/v

Processing Integration Results



RT: 11.19
Area: 6636
Amount: 0.088783
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:22:46
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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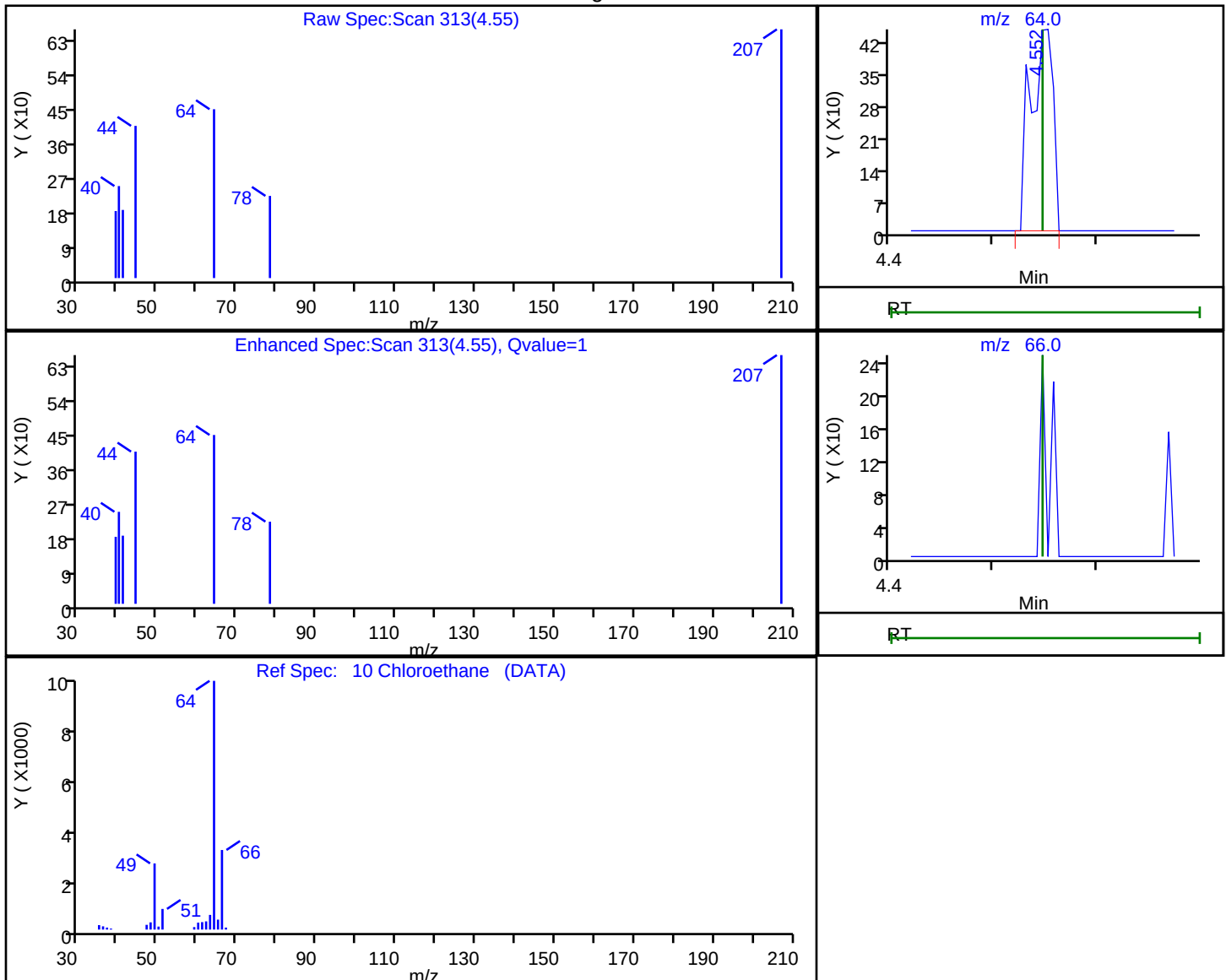
10/18/2019

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-04.D
Injection Date: 17-Oct-2019 10:50:30 Instrument ID: CHC.i
Lims ID: mb
Client ID:
Operator ID: ggg ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

10 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
4.55	64.00	673	0.072373
4.55	66.00	0	

Reviewer: bunmaa, 18-Oct-2019 11:18:19

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

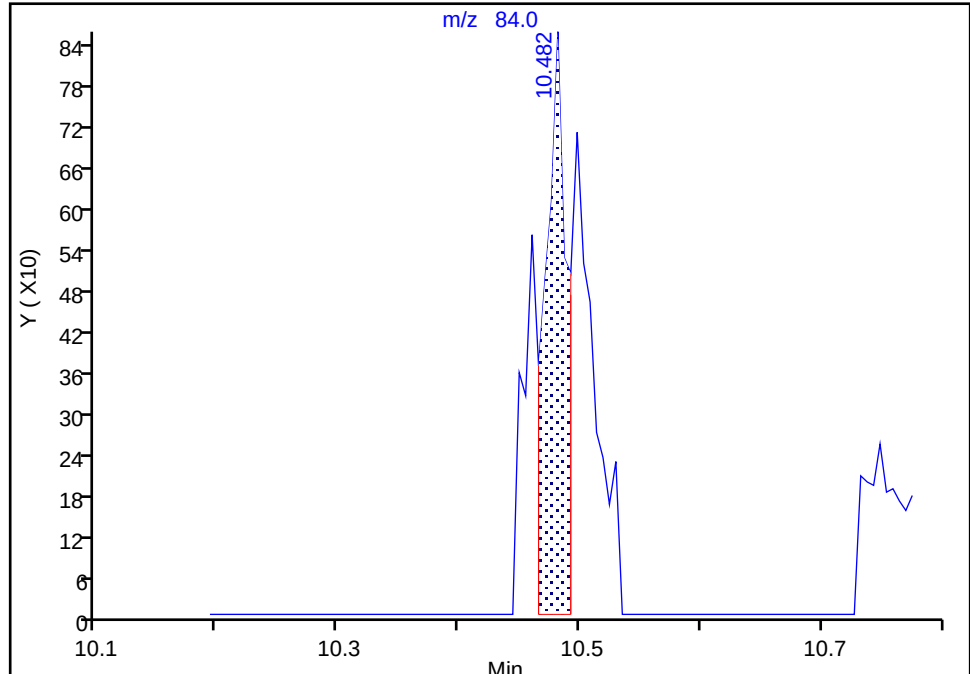
Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-04.D
Injection Date: 17-Oct-2019 10:50:30 Instrument ID: CHC.i
Lims ID: mb
Client ID:
Operator ID: ggg ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

42 Cyclohexane, CAS: 110-82-7

Signal: 1

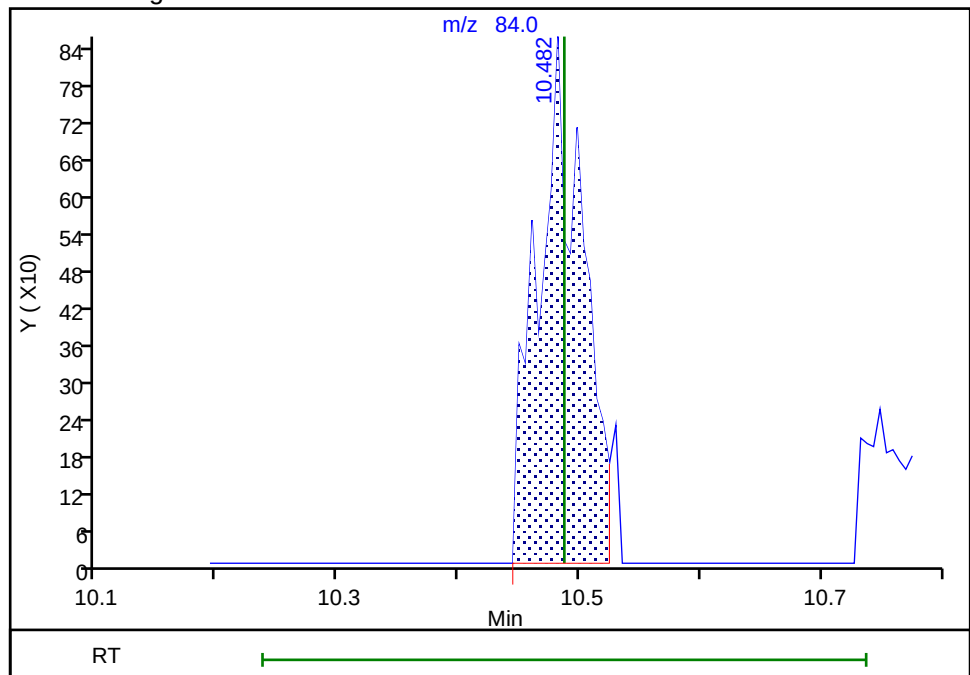
RT: 10.48
Area: 1073
Amount: 0.035011
Amount Units: ppb v/v

Processing Integration Results



RT: 10.48
Area: 2221
Amount: 0.072469
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:22:26
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-04.D

Injection Date: 17-Oct-2019 10:50:30

Instrument ID: CHC.i

Lims ID: mb

Client ID:

Operator ID: ggg

ALS Bottle#:

3

Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group:

AI_TO15_ICAL

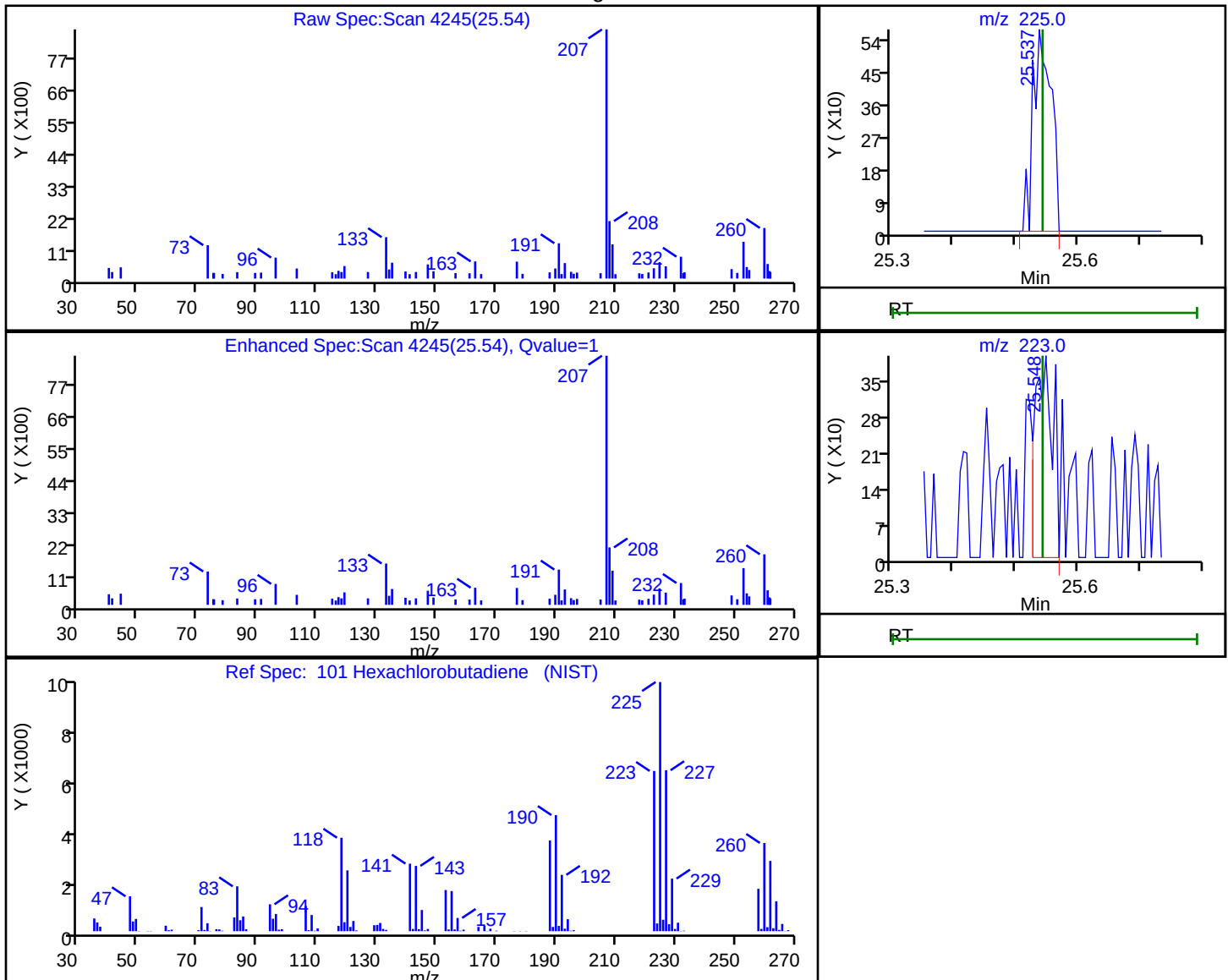
Column: RTX-624 (0.32 mm)

Detector

MS SCAN

101 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



RT	Mass	Response	Amount
25.54	225.00	1157	0.016491
25.55	223.00	785	

Reviewer: bunmaa, 18-Oct-2019 11:29:50

Audit Action: Marked Compound Undetected

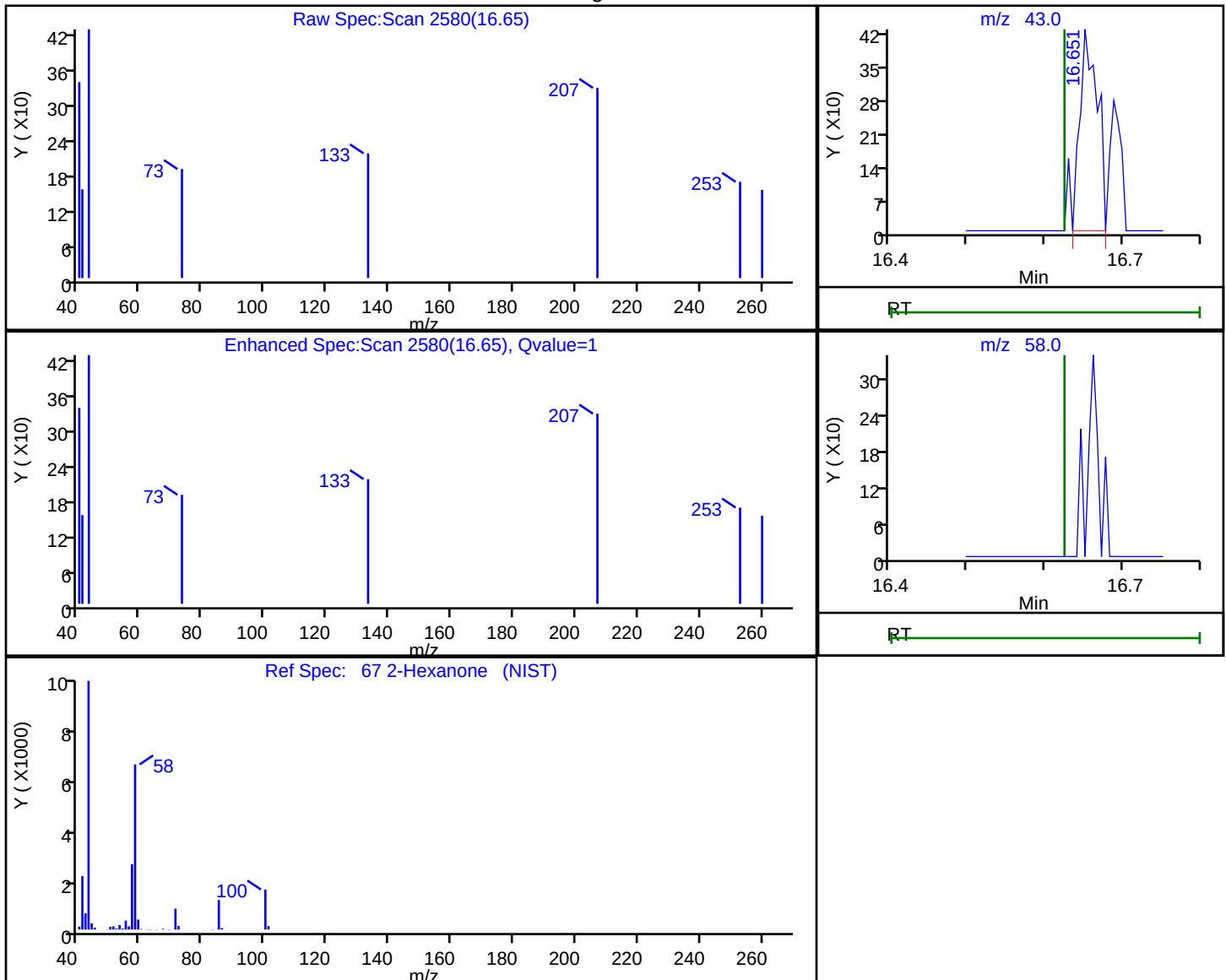
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-04.D
Injection Date: 17-Oct-2019 10:50:30 Instrument ID: CHC.i
Lims ID: mb
Client ID:
Operator ID: ggg ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

67 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
16.65	43.00	673	0.011936
16.62	58.00	0	

Reviewer: bunmaa, 18-Oct-2019 11:26:18

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

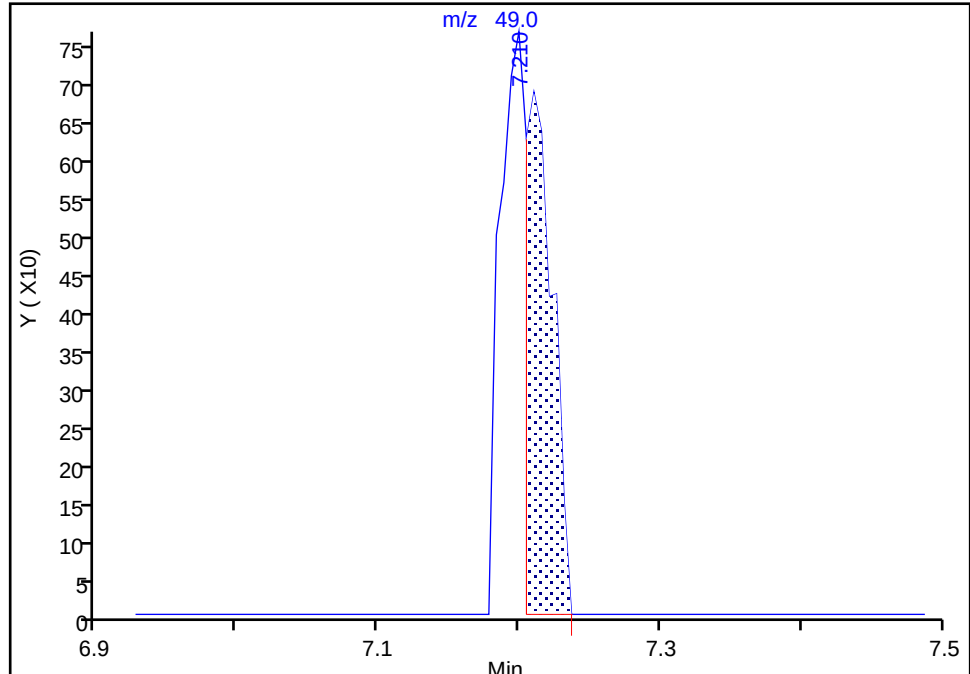
Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-04.D
Injection Date: 17-Oct-2019 10:50:30 Instrument ID: CHC.i
Lims ID: mb
Client ID:
Operator ID: ggg ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

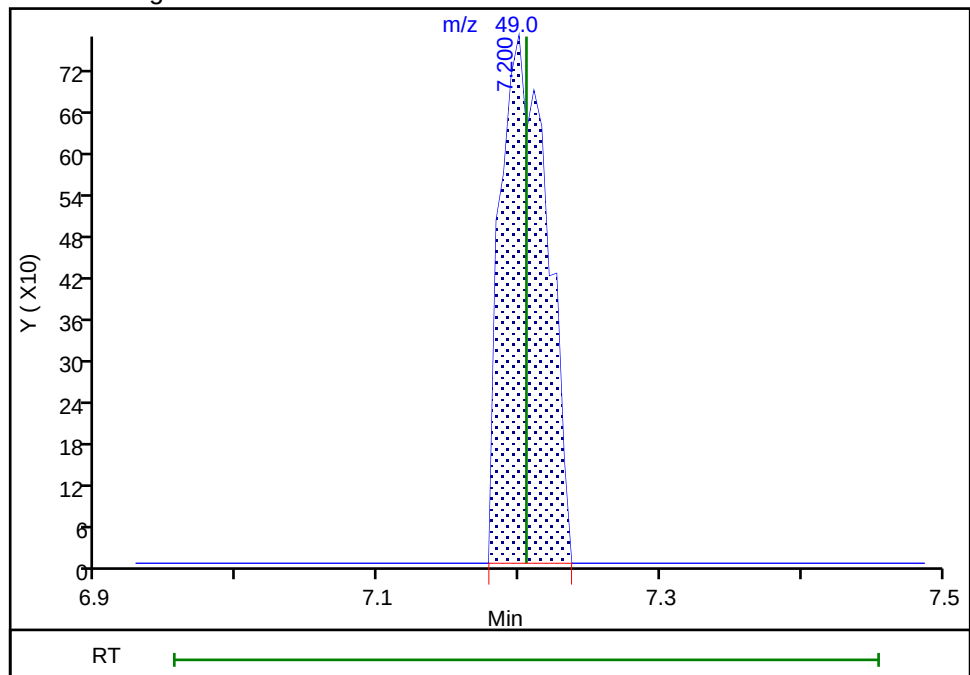
RT: 7.21
Area: 944
Amount: 0.041706
Amount Units: ppb v/v

Processing Integration Results



RT: 7.20
Area: 1761
Amount: 0.077802
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:20:48
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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Eurofins TestAmerica, Burlington

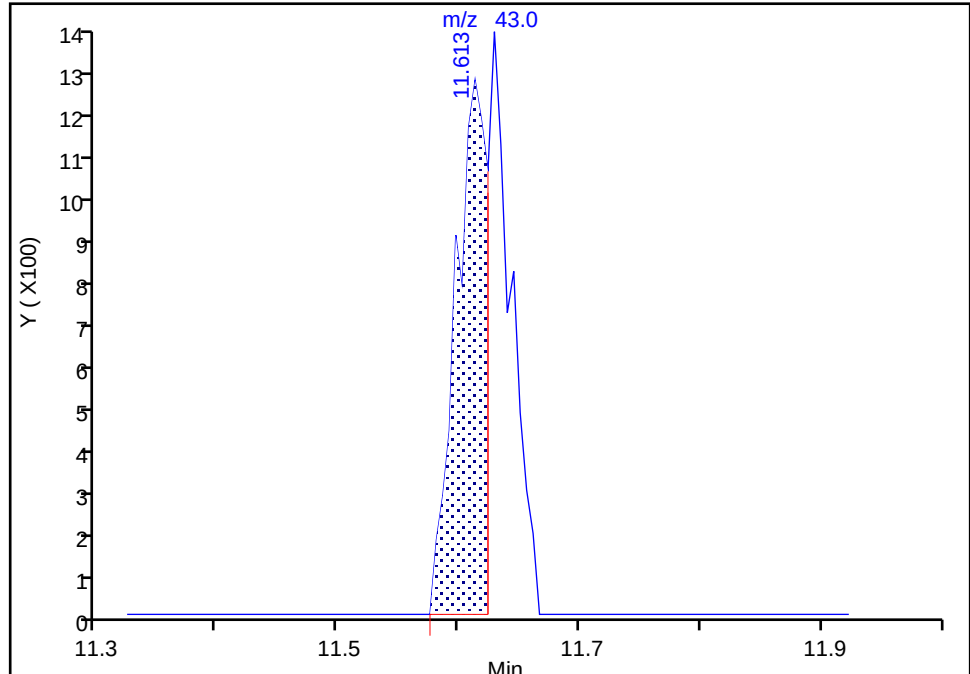
Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-04.D
Injection Date: 17-Oct-2019 10:50:30 Instrument ID: CHC.i
Lims ID: mb
Client ID:
Operator ID: ggg ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

48 n-Heptane, CAS: 142-82-5

Signal: 1

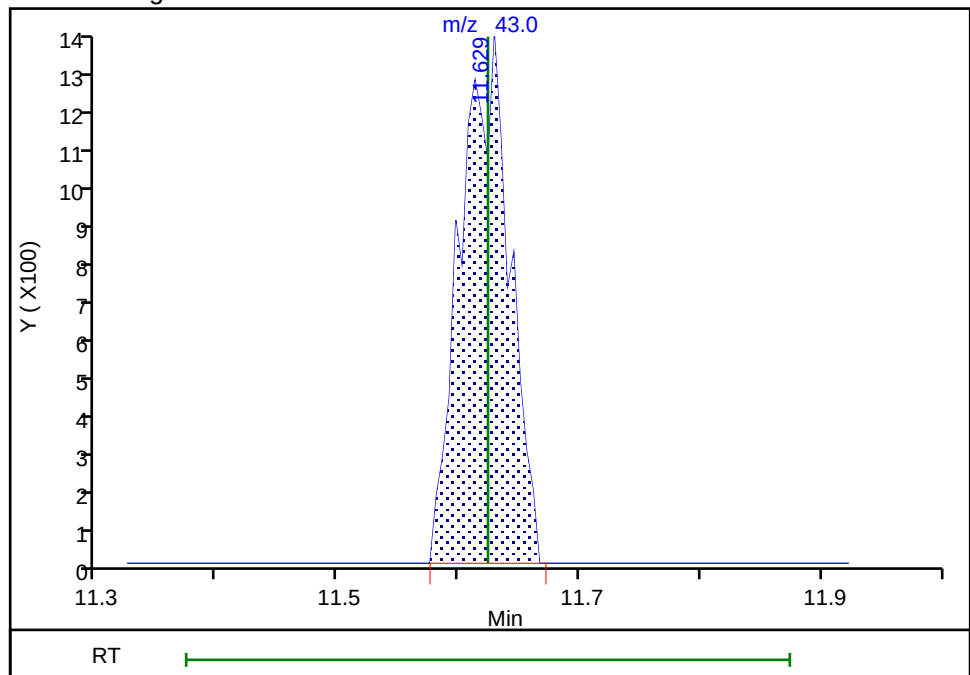
RT: 11.61
Area: 2320
Amount: 0.050332
Amount Units: ppb v/v

Processing Integration Results



RT: 11.63
Area: 3927
Amount: 0.085195
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:23:42
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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Eurofins TestAmerica, Burlington

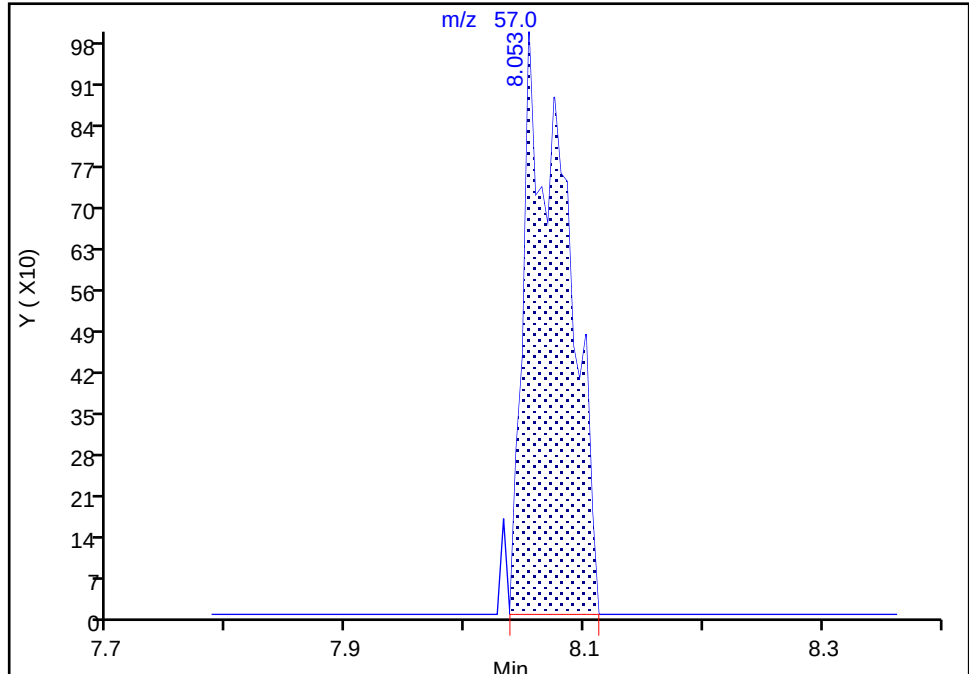
Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-04.D
Injection Date: 17-Oct-2019 10:50:30 Instrument ID: CHC.i
Lims ID: mb
Client ID:
Operator ID: ggg ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

32 Hexane, CAS: 110-54-3

Signal: 1

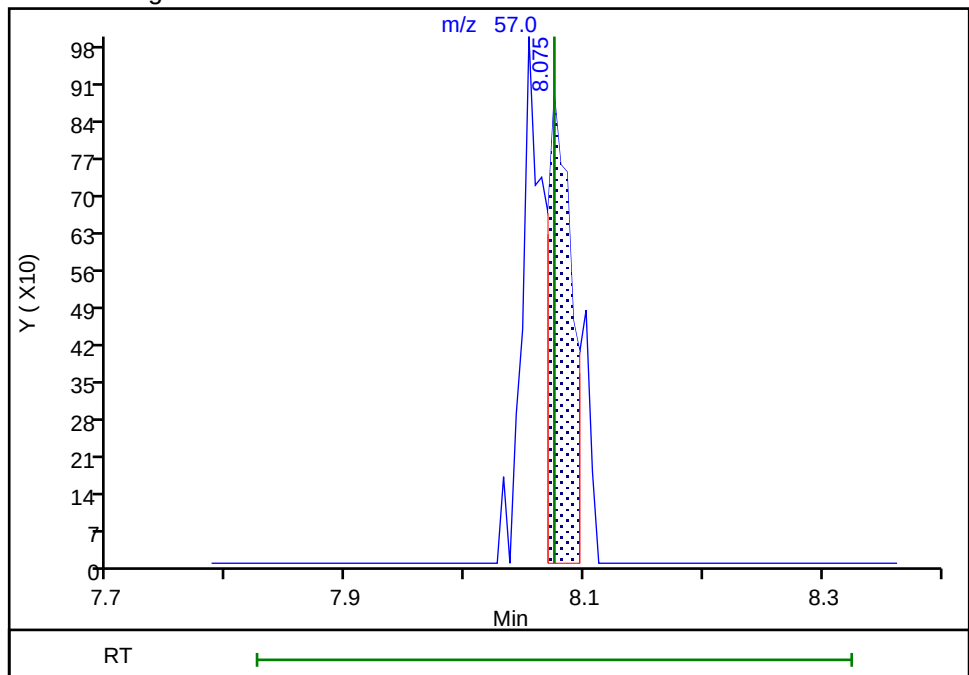
RT: 8.05
Area: 2461
Amount: 0.085363
Amount Units: ppb v/v

Processing Integration Results



RT: 8.07
Area: 1244
Amount: 0.043150
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:21:35
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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Eurofins TestAmerica, Burlington

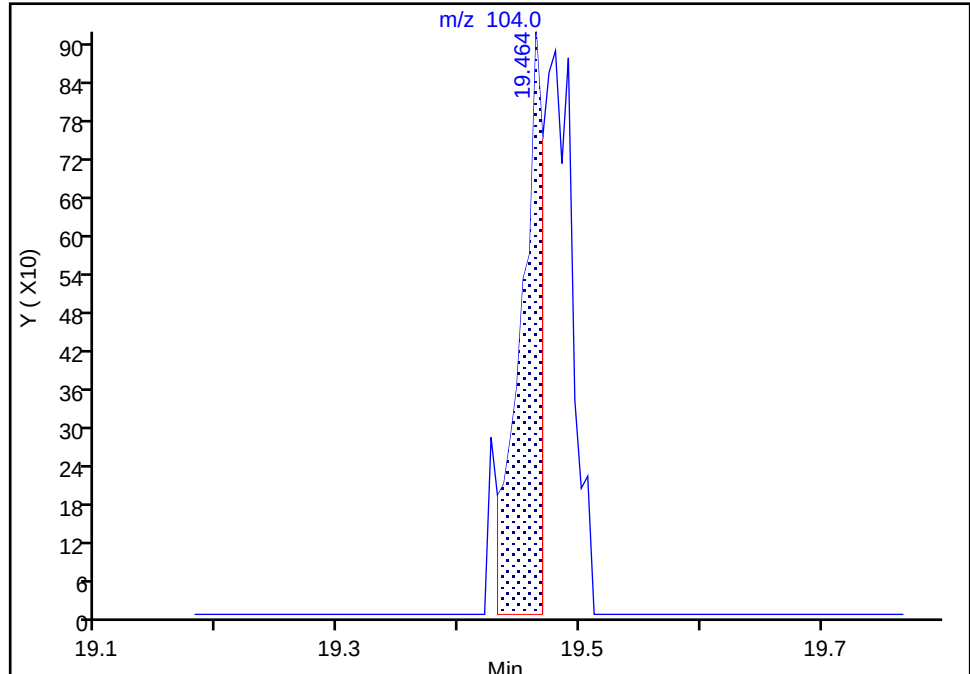
Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-04.D
Injection Date: 17-Oct-2019 10:50:30 Instrument ID: CHC.i
Lims ID: mb
Client ID:
Operator ID: ggg ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

77 Styrene, CAS: 100-42-5

Signal: 1

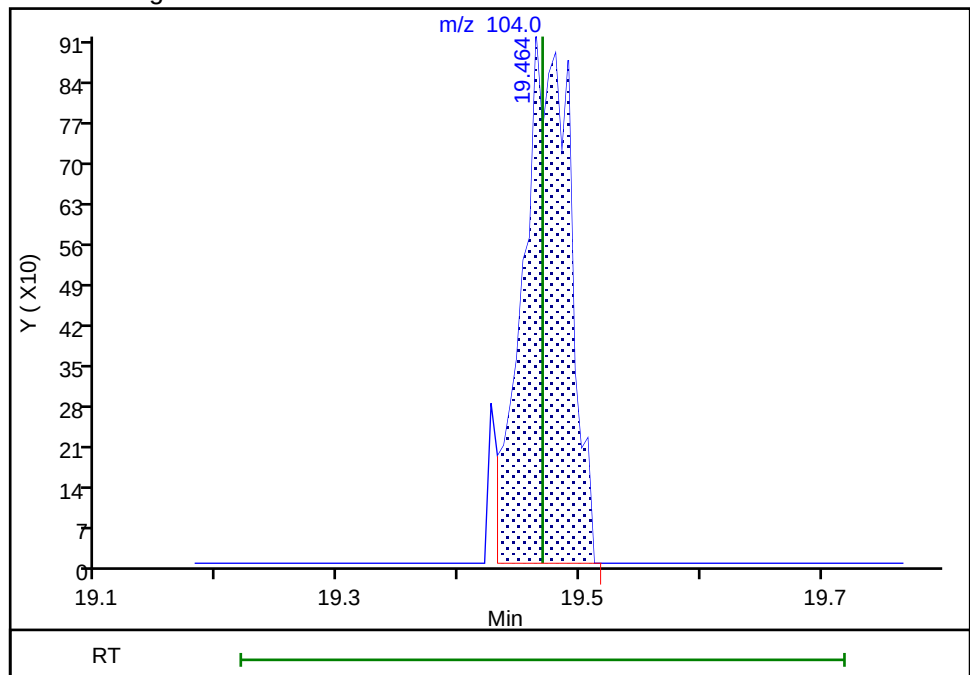
RT: 19.46
Area: 1209
Amount: 0.015822
Amount Units: ppb v/v

Processing Integration Results



RT: 19.46
Area: 2513
Amount: 0.032888
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:28:17
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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Eurofins TestAmerica, Burlington

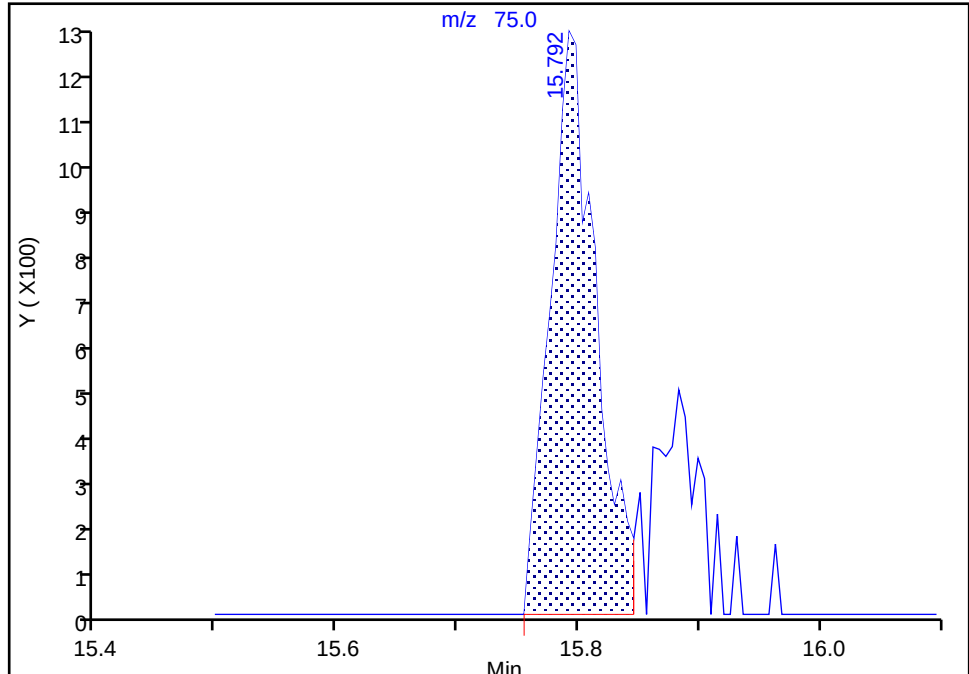
Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-04.D
Injection Date: 17-Oct-2019 10:50:30 Instrument ID: CHC.i
Lims ID: mb
Client ID:
Operator ID: ggg ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

64 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

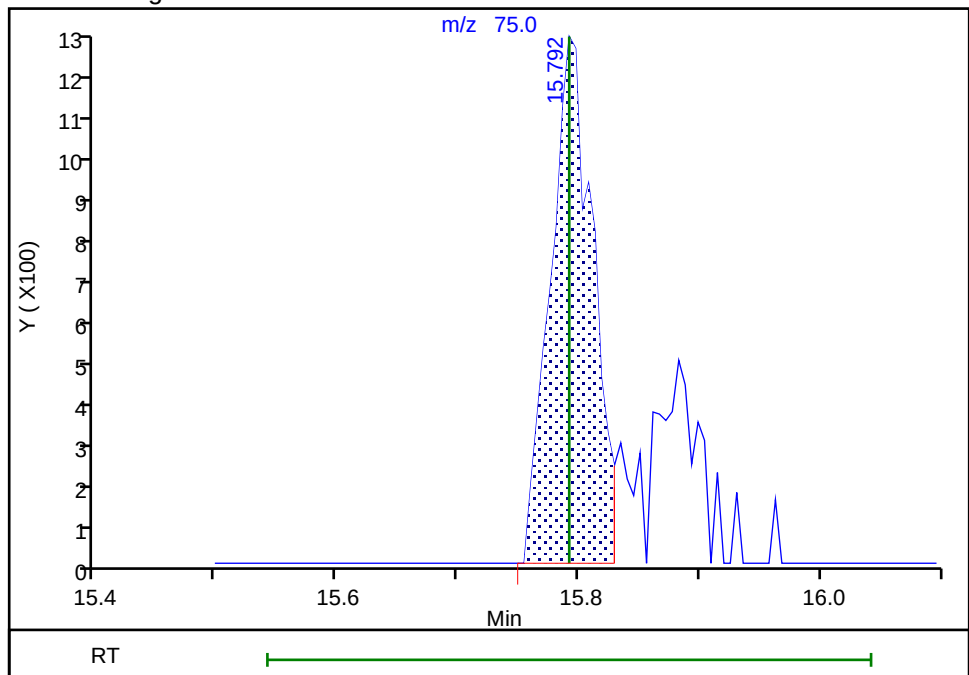
RT: 15.79
Area: 3242
Amount: 0.067659
Amount Units: ppb v/v

Processing Integration Results



RT: 15.79
Area: 3036
Amount: 0.063359
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:25:34
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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Eurofins TestAmerica, Burlington

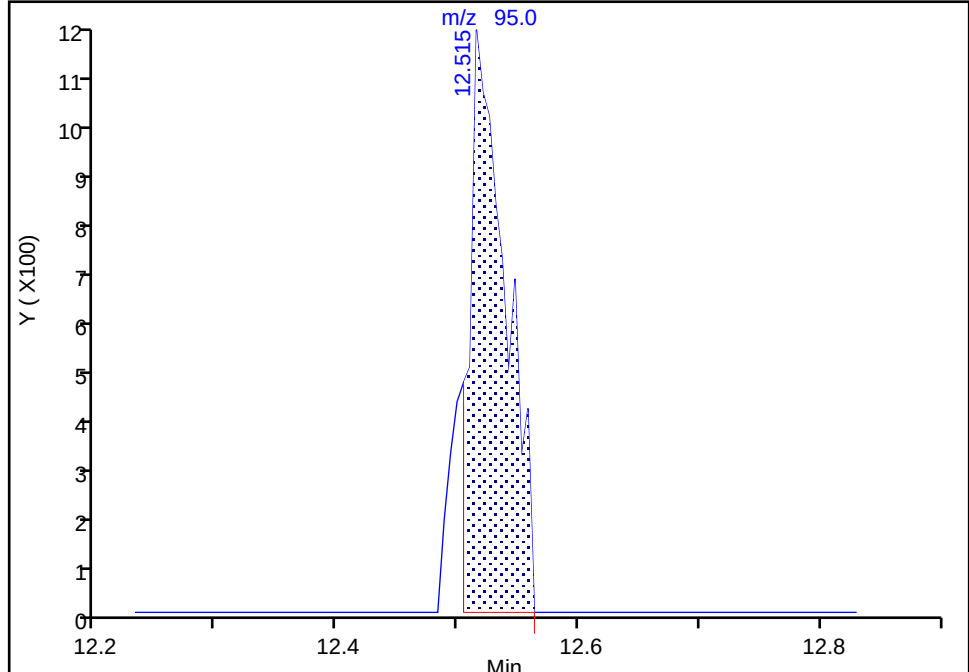
Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-04.D
Injection Date: 17-Oct-2019 10:50:30 Instrument ID: CHC.i
Lims ID: mb
Client ID:
Operator ID: ggg ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

51 Trichloroethene, CAS: 79-01-6

Signal: 1

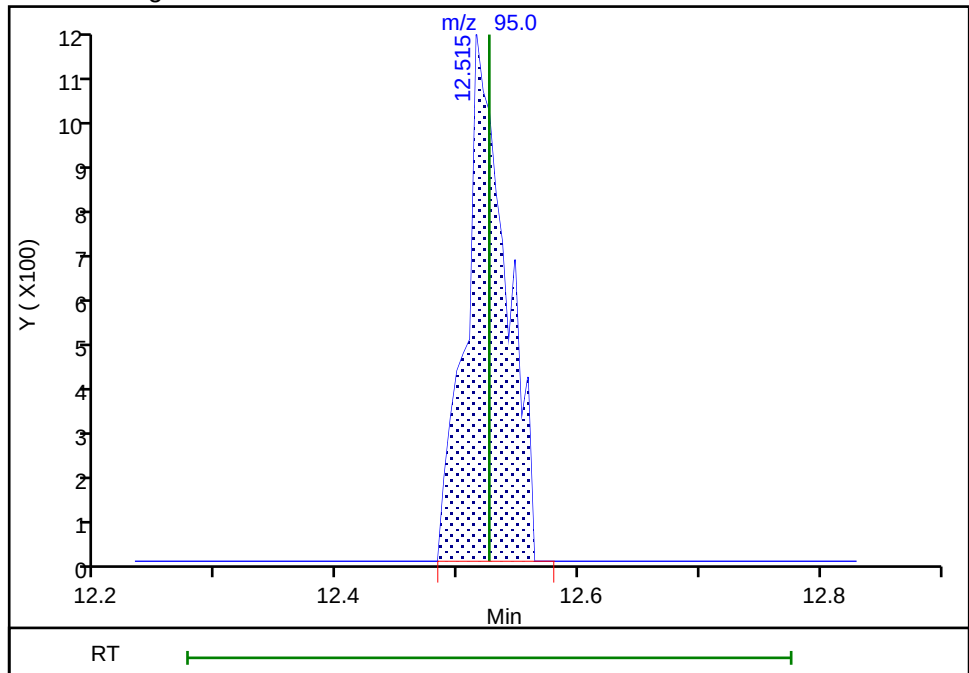
RT: 12.52
Area: 2456
Amount: 0.065640
Amount Units: ppb v/v

Processing Integration Results



RT: 12.52
Area: 2758
Amount: 0.073711
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:23:59

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

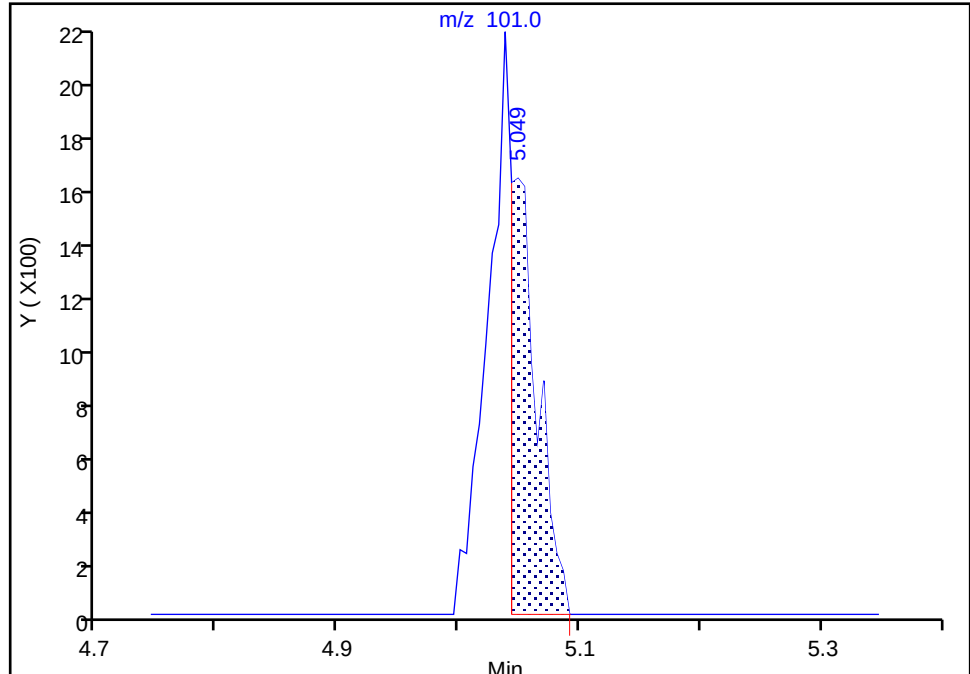
Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-04.D
Injection Date: 17-Oct-2019 10:50:30 Instrument ID: CHC.i
Lims ID: mb
Client ID:
Operator ID: ggg ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

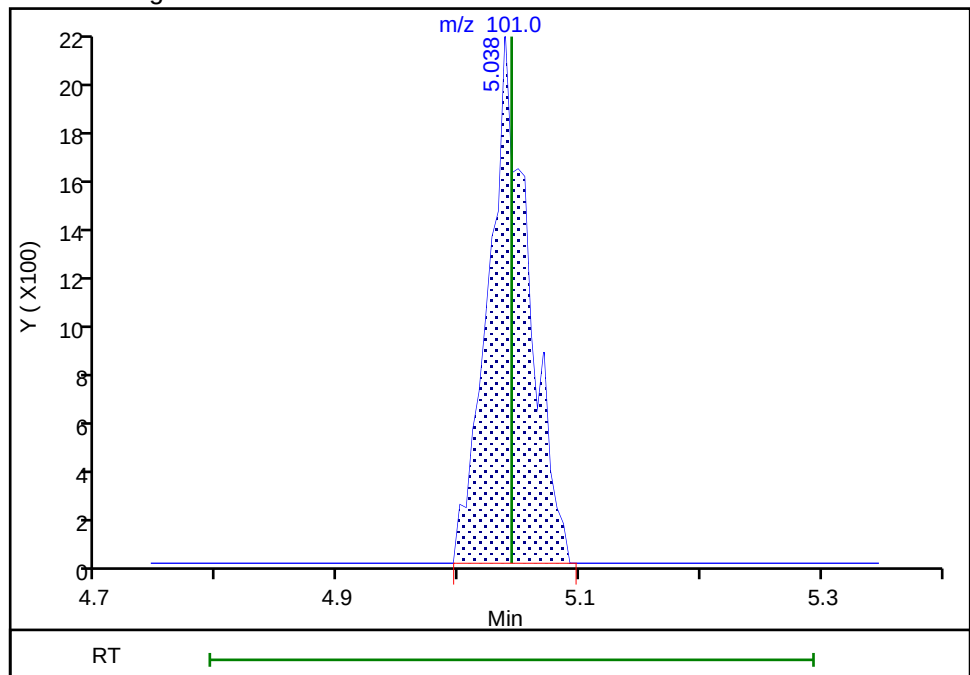
RT: 5.05
Area: 2596
Amount: 0.048092
Amount Units: ppb v/v

Processing Integration Results



RT: 5.04
Area: 5085
Amount: 0.094202
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:18:44
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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Eurofins TestAmerica, Burlington

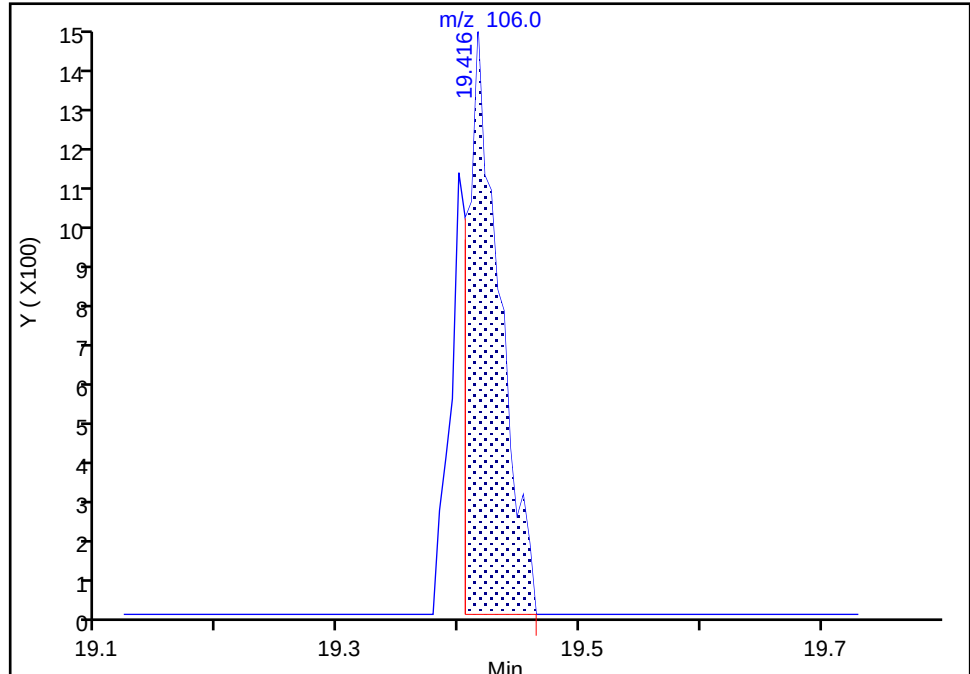
Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-04.D
Injection Date: 17-Oct-2019 10:50:30 Instrument ID: CHC.i
Lims ID: mb
Client ID:
Operator ID: ggg ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

76 o-Xylene, CAS: 95-47-6

Signal: 1

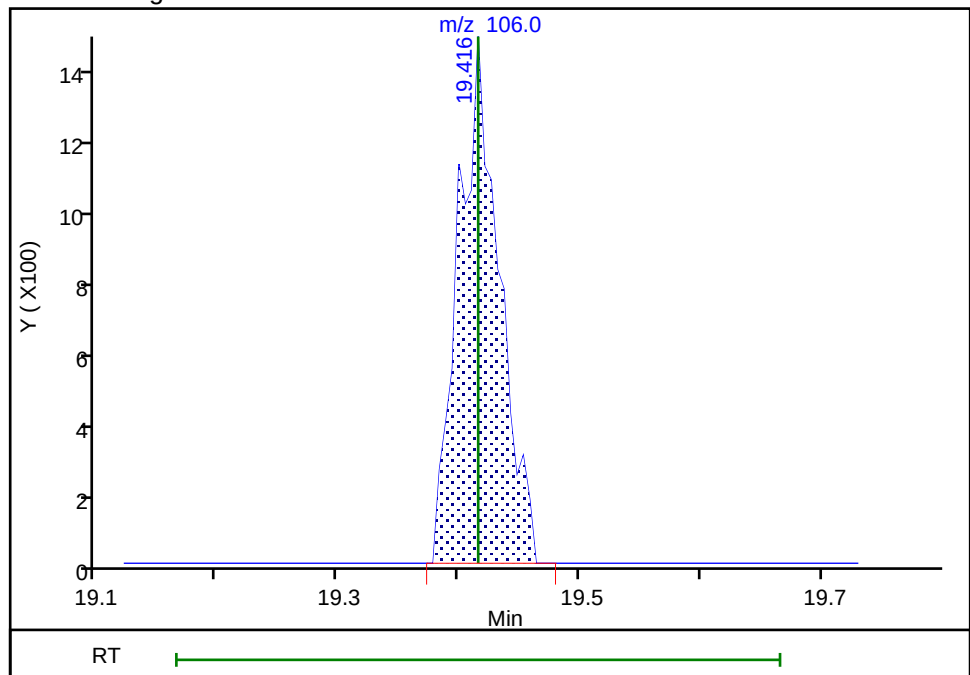
RT: 19.42
Area: 2650
Amount: 0.055718
Amount Units: ppb v/v

Processing Integration Results



RT: 19.42
Area: 3380
Amount: 0.071067
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 18-Oct-2019 11:27:57

Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 200-148544/3

Matrix: Air Lab File ID: 38287-03.D

Analysis Method: TO-15 Date Collected: _____

Sample wt/vol: 200 (mL) Date Analyzed: 10/17/2019 09:56

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 148544 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
71-55-6	1,1,1-Trichloroethane	133.41	9.66		0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	167.85	8.98		0.20	0.20
79-00-5	1,1,2-Trichloroethane	133.41	9.02		0.20	0.20
75-34-3	1,1-Dichloroethane	98.96	8.96		0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	7.92		0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	181.45	8.11		0.50	0.50
95-63-6	1,2,4-Trimethylbenzene	120.20	9.22		0.20	0.20
106-93-4	1,2-Dibromoethane	187.87	9.16		0.20	0.20
95-50-1	1,2-Dichlorobenzene	147.00	8.98		0.20	0.20
107-06-2	1,2-Dichloroethane	98.96	10.4		0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	18.4		0.40	0.40
78-87-5	1,2-Dichloropropane	112.99	8.82		0.20	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	9.96		0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	120.20	9.34		0.20	0.20
106-99-0	1,3-Butadiene	54.09	8.14		0.20	0.20
541-73-1	1,3-Dichlorobenzene	147.00	9.16		0.20	0.20
106-46-7	1,4-Dichlorobenzene	147.00	8.99		0.20	0.20
123-91-1	1,4-Dioxane	88.11	8.83		5.0	5.0
540-84-1	2,2,4-Trimethylpentane	114.23	9.06		0.20	0.20
95-49-8	2-Chlorotoluene	126.59	9.42		0.20	0.20
107-05-1	3-Chloropropene	76.53	7.69		0.50	0.50
622-96-8	4-Ethyltoluene	120.20	9.72		0.20	0.20
67-64-1	Acetone	58.08	9.78		5.0	5.0
71-43-2	Benzene	78.11	8.94		0.20	0.20
75-27-4	Bromodichloromethane	163.83	9.39		0.20	0.20
593-60-2	Bromoethene (Vinyl Bromide)	106.96	8.12		0.20	0.20
75-25-2	Bromoform	252.75	7.74		0.20	0.20
74-83-9	Bromomethane	94.94	7.65		0.20	0.20
75-15-0	Carbon disulfide	76.14	8.89		0.50	0.50
56-23-5	Carbon tetrachloride	153.81	10.0		0.20	0.20
108-90-7	Chlorobenzene	112.56	9.30		0.20	0.20
75-00-3	Chloroethane	64.52	7.60		0.50	0.50
67-66-3	Chloroform	119.38	9.23		0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-148544/3
 Matrix: Air Lab File ID: 38287-03.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 10/17/2019 09:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 148544 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
74-87-3	Chloromethane	50.49	9.37		0.50	0.50
156-59-2	cis-1,2-Dichloroethene	96.94	8.69		0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	8.76		0.20	0.20
110-82-7	Cyclohexane	84.16	9.38		0.20	0.20
124-48-1	Dibromochloromethane	208.29	8.66		0.20	0.20
75-71-8	Dichlorodifluoromethane	120.91	9.01		0.50	0.50
100-41-4	Ethylbenzene	106.17	9.32		0.20	0.20
76-13-1	Freon TF	187.38	8.06		0.20	0.20
87-68-3	Hexachlorobutadiene	260.76	8.91		0.20	0.20
67-63-0	Isopropyl alcohol	60.10	8.96		5.0	5.0
179601-23-1	m,p-Xylene	106.17	18.7		0.50	0.50
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	9.49		0.50	0.50
78-93-3	Methyl Ethyl Ketone	72.11	9.03		0.50	0.50
108-10-1	methyl isobutyl ketone	100.16	9.48		0.50	0.50
1634-04-4	Methyl tert-butyl ether	88.15	9.60		0.20	0.20
75-09-2	Methylene Chloride	84.93	8.72		0.50	0.50
142-82-5	n-Heptane	100.21	9.09		0.20	0.20
110-54-3	n-Hexane	86.17	9.52		0.20	0.20
100-42-5	Styrene	104.15	9.04		0.20	0.20
75-65-0	tert-Butyl alcohol	74.12	9.88		5.0	5.0
127-18-4	Tetrachloroethene	165.83	9.63		0.20	0.20
109-99-9	Tetrahydrofuran	72.11	10.4		5.0	5.0
108-88-3	Toluene	92.14	9.14		0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	9.67		0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	9.95		0.20	0.20
79-01-6	Trichloroethene	131.39	8.98		0.20	0.20
75-69-4	Trichlorofluoromethane	137.37	9.60		0.20	0.20
75-01-4	Vinyl chloride	62.50	7.90		0.20	0.20
1330-20-7	Xylene (total)	106.17	28.2		0.70	0.70
95-47-6	Xylene, o-	106.17	9.54		0.20	0.20

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-03.D

Lims ID: lcs

Client ID:

Sample Type: LCS

Inject. Date: 17-Oct-2019 09:56:30

ALS Bottle#:

2

Worklist Smp#:

3

Purge Vol: 200.000 mL

Dil. Factor:

1.0000

Sample Info: 200-0038287-003

Operator ID: ggg

Instrument ID:

CHC.i

Method: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\TO15_MasterMethod_(v1)_CHC.i.m

Limit Group: AI_TO15_ICAL

Last Update: 18-Oct-2019 11:16:03

Calib Date:

23-Sep-2019 10:48:30

Integrator: RTE

ID Type:

Deconvolution ID

Quant Method: Internal Standard

Quant By:

Initial Calibration

Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20190922-37879.b\37879-20.D

Column 1 : RTX-624 (0.32 mm)

Det: MS SCAN

Process Host: CTX0329

First Level Reviewer: bunmaa

Date:

18-Oct-2019 11:16:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	2.930	2.930	0.000	97	123749	10.0	7.54	M
2 Dichlorodifluoromethane	85	2.994	2.994	0.000	99	482933	10.0	9.01	
3 Chlorodifluoromethane	51	3.042	3.042	0.000	97	294670	10.0	9.60	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.245	3.245	0.000	92	590862	10.0	9.96	
5 Chloromethane	50	3.368	3.368	0.000	99	170830	10.0	9.37	
6 Butane	43	3.565	3.565	0.000	97	271935	10.0	9.39	
7 Vinyl chloride	62	3.597	3.597	0.000	98	180352	10.0	7.90	
8 Butadiene	54	3.672	3.672	0.000	95	127654	10.0	8.14	
9 Bromomethane	94	4.318	4.318	0.000	99	164730	10.0	7.65	
10 Chloroethane	64	4.547	4.547	0.000	98	70067	10.0	7.60	
11 2-Methylbutane	43	4.638	4.638	0.000	92	164948	10.0	7.61	
13 Vinyl bromide	106	4.931	4.931	0.000	99	163020	10.0	8.12	
14 Trichlorofluoromethane	101	5.043	5.043	0.000	99	513997	10.0	9.60	
15 Pentane	43	5.188	5.188	0.000	99	280188	10.0	8.15	
16 Ethanol	45	5.620	5.620	0.000	98	126926	15.0	16.7	
17 Ethyl ether	59	5.700	5.700	0.000	95	115692	10.0	9.40	
18 Acrolein	56	6.041	6.041	0.000	97	56516	10.0	8.86	
19 1,1,2-Trichloro-1,2,2-trif	101	6.116	6.116	0.000	95	382757	10.0	8.06	
20 1,1-Dichloroethene	96	6.137	6.137	0.000	98	176603	10.0	7.92	
21 Acetone	43	6.356	6.356	0.000	99	263411	10.0	9.78	
22 Carbon disulfide	76	6.511	6.511	0.000	99	534252	10.0	8.89	
23 Isopropyl alcohol	45	6.693	6.693	0.000	100	247750	10.0	8.96	
24 3-Chloro-1-propene	41	6.911	6.911	0.000	99	182743	10.0	7.69	
25 Acetonitrile	41	7.002	7.002	0.000	98	120238	10.0	9.23	
27 Methylene Chloride	49	7.205	7.205	0.000	92	195850	10.0	8.72	
28 2-Methyl-2-propanol	59	7.461	7.461	0.000	94	369511	10.0	9.88	
29 Methyl tert-butyl ether	73	7.642	7.642	0.000	96	532180	10.0	9.60	
30 trans-1,2-Dichloroethene	61	7.653	7.653	0.000	98	287196	10.0	9.67	
31 Acrylonitrile	53	7.765	7.765	0.000	93	119850	10.0	9.46	
32 Hexane	57	8.075	8.075	0.000	92	272184	10.0	9.52	
33 1,1-Dichloroethane	63	8.512	8.512	0.000	100	354656	10.0	8.96	
34 Vinyl acetate	43	8.608	8.608	0.000	100	481752	10.0	11.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
35 cis-1,2-Dichloroethene	96	9.622	9.622	0.000	93	223737	10.0	8.69	
36 2-Butanone (MEK)	72	9.665	9.665	0.000	100	93814	10.0	9.03	
37 Ethyl acetate	88	9.740	9.740	0.000	100	16309	10.0	9.14	
12 BFB									
* 38 Chlorobromomethane	128	10.071	10.071	0.000	82	421980	10.0	10.0	
39 Tetrahydrofuran	42	10.108	10.108	0.000	92	230554	10.0	10.4	
S 40 1,2-Dichloroethene, Total	61				0		20.0	18.4	
41 Chloroform	83	10.220	10.220	0.000	96	471266	10.0	9.23	
42 Cyclohexane	84	10.487	10.487	0.000	97	285557	10.0	9.38	
43 1,1,1-Trichloroethane	97	10.487	10.487	0.000	95	514952	10.0	9.66	
44 Carbon tetrachloride	117	10.754	10.754	0.000	98	562302	10.0	10.0	
45 Benzene	78	11.197	11.197	0.000	96	664434	10.0	8.94	
46 Isooctane	57	11.213	11.213	0.000	98	1036196	10.0	9.06	
47 1,2-Dichloroethane	62	11.368	11.368	0.000	98	331561	10.0	10.4	
48 n-Heptane	43	11.624	11.624	0.000	95	416219	10.0	9.09	
* 49 1,4-Difluorobenzene	114	12.056	12.056	0.000	93	1980181	10.0	10.0	
50 n-Butanol	56	12.488	12.488	0.000	92	139334	10.0	9.74	
51 Trichloroethene	95	12.526	12.526	0.000	98	333822	10.0	8.98	
A 52 GRO	1	12.883	(4.628-21.139)		0	109149421	10.0	0	
53 1,2-Dichloropropane	63	13.054	13.054	0.000	88	279152	10.0	8.82	
55 Methyl methacrylate	69	13.268	13.268	0.000	93	261976	10.0	9.15	
56 1,4-Dioxane	88	13.305	13.305	0.000	52	144401	10.0	8.83	
57 Dibromomethane	174	13.316	13.316	0.000	91	400092	10.0	9.90	
58 Dichlorobromomethane	83	13.630	13.630	0.000	99	581005	10.0	9.39	
A 59 TVOC as Toluene	1	14.583	(2.920-26.246)		0	172332646	10.0	0	
60 cis-1,3-Dichloropropene	75	14.591	14.591	0.000	94	451816	10.0	8.76	
61 4-Methyl-2-pentanone (MIBK)	43	14.885	14.885	0.000	99	612605	10.0	9.48	
62 Toluene	92	15.189	15.189	0.000	93	565628	10.0	9.14	
63 n-Octane	43	15.312	15.312	0.000	95	688297	10.0	9.44	
64 trans-1,3-Dichloropropene	75	15.792	15.792	0.000	98	473873	10.0	9.95	
65 1,1,2-Trichloroethane	83	16.160	16.160	0.000	97	294007	10.0	9.02	
66 Tetrachloroethene	166	16.299	16.299	0.000	97	590040	10.0	9.63	
67 2-Hexanone	43	16.624	16.624	0.000	92	599345	10.0	9.49	
68 Chlorodibromomethane	129	16.923	16.923	0.000	98	630448	10.0	8.66	
69 Ethylene Dibromide	107	17.180	17.180	0.000	99	559762	10.0	9.16	
* 70 Chlorobenzene-d5	117	18.103	18.103	0.000	85	1955028	10.0	10.0	
71 Chlorobenzene	112	18.162	18.162	0.000	96	834441	10.0	9.30	
72 Ethylbenzene	91	18.327	18.327	0.000	98	1289338	10.0	9.32	
73 n-Nonane	57	18.508	18.508	0.000	95	610511	10.0	9.21	
74 m-Xylene & p-Xylene	106	18.578	18.578	0.000	0	1037870	20.0	18.7	
76 o-Xylene	106	19.416	19.416	0.000	100	508480	10.0	9.54	
77 Styrene	104	19.469	19.469	0.000	97	774361	10.0	9.04	
78 Bromoform	173	19.896	19.896	0.000	98	578101	10.0	7.74	
S 79 Xylenes, Total	106				0		30.0	28.2	
80 Isopropylbenzene	105	20.147	20.147	0.000	96	1480080	10.0	9.40	
81 1,1,2,2-Tetrachloroethane	83	20.819	20.819	0.000	99	786500	10.0	8.98	
82 N-Propylbenzene	91	20.905	20.905	0.000	99	1799599	10.0	9.51	
83 1,2,3-Trichloropropane	75	20.910	20.910	0.000	98	605474	10.0	9.06	
85 2-Chlorotoluene	91	21.102	21.102	0.000	98	1236447	10.0	9.42	
84 4-Ethyltoluene	105	21.102	21.102	0.000	97	1561167	10.0	9.72	
86 n-Decane	57	21.129	21.129	0.000	90	810571	10.0	9.36	
87 1,3,5-Trimethylbenzene	105	21.214	21.214	0.000	94	1226993	10.0	9.34	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
88 Alpha Methyl Styrene	118	21.598	21.598	0.000	91	627798	10.0	8.79	
89 tert-Butylbenzene	119	21.721	21.721	0.000	95	1212281	10.0	9.20	
90 1,2,4-Trimethylbenzene	105	21.817	21.817	0.000	97	1225849	10.0	9.22	
91 sec-Butylbenzene	105	22.057	22.057	0.000	99	1825649	10.0	9.07	
92 4-Isopropyltoluene	119	22.271	22.271	0.000	97	1605197	10.0	9.22	
93 1,3-Dichlorobenzene	146	22.287	22.287	0.000	97	967960	10.0	9.16	
94 1,4-Dichlorobenzene	146	22.426	22.426	0.000	96	938146	10.0	8.99	
95 Benzyl chloride	91	22.618	22.618	0.000	99	1007960	10.0	8.10	
96 n-Butylbenzene	91	22.842	22.842	0.000	98	1418914	10.0	8.86	
97 Undecane	57	22.895	22.895	0.000	96	895959	10.0	9.11	
98 1,2-Dichlorobenzene	146	22.949	22.949	0.000	98	901356	10.0	8.98	
99 Dodecane	57	24.427	24.427	0.000	95	678735	10.0	8.85	
100 1,2,4-Trichlorobenzene	180	25.345	25.345	0.000	94	594143	10.0	8.11	
101 Hexachlorobutadiene	225	25.542	25.542	0.000	97	700797	10.0	8.91	
102 Naphthalene	128	25.783	25.783	0.000	99	941914	10.0	7.00	
103 1,2,3-Trichlorobenzene	180	26.236	26.236	0.000	95	424505	10.0	7.88	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15LCSW_00798

Amount Added: 200.00

Units: mL

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

Report Date: 18-Oct-2019 11:16:04

Chrom Revision: 2.3 17-Oct-2019 22:00:42

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20191017-38287.b\38287-03.D

Injection Date: 17-Oct-2019 09:56:30

Instrument ID: CHC.i

Operator ID: ggg

Lims ID: lcs

Worklist Smp#: 3

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

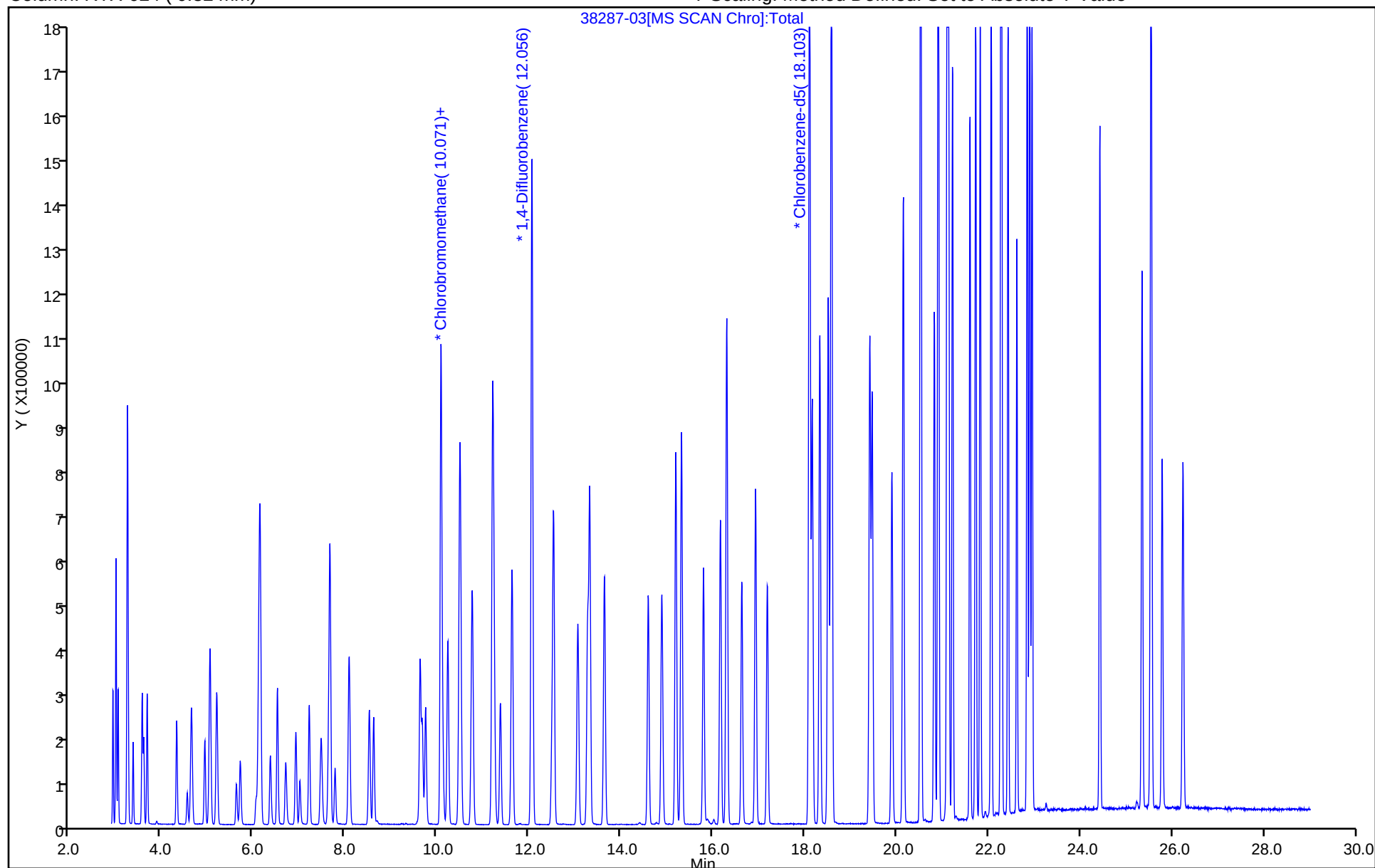
ALS Bottle#: 2

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1

SDG No.: _____

Instrument ID: CHC.i Start Date: 09/22/2019 11:56Analysis Batch Number: 147607 End Date: 09/23/2019 10:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-147607/1		09/22/2019 11:56	1	37879-01.D	RTX-624 0.32 (mm)
IC 200-147607/4		09/22/2019 15:25	1	37879-04.D	RTX-624 0.32 (mm)
IC 200-147607/5		09/22/2019 16:30	1	37879-05.D	RTX-624 0.32 (mm)
IC 200-147607/6		09/22/2019 17:36	1	37879-06.D	RTX-624 0.32 (mm)
IC 200-147607/7		09/22/2019 18:41	1	37879-07.D	RTX-624 0.32 (mm)
ICIS 200-147607/8		09/22/2019 19:46	1	37879-08.D	RTX-624 0.32 (mm)
IC 200-147607/9		09/22/2019 20:51	1	37879-09.D	RTX-624 0.32 (mm)
ZZZZZ		09/22/2019 21:55	1		RTX-624 0.32 (mm)
IC 200-147607/19		09/23/2019 09:42	1	37879-19.D	RTX-624 0.32 (mm)
IC 200-147607/20		09/23/2019 10:48	1	37879-20.D	RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1

SDG No.: _____

Instrument ID: CHC.i Start Date: 09/24/2019 09:53Analysis Batch Number: 147678 End Date: 09/25/2019 09:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-147678/1		09/24/2019 09:53	1	37906-01.D	RTX-624 0.32 (mm)
ICV 200-147678/3		09/24/2019 11:56	1	37906-03.D	RTX-624 0.32 (mm)
CCVIS 200-147678/5		09/24/2019 14:07	1		RTX-624 0.32 (mm)
ZZZZZ		09/24/2019 15:14	1		RTX-624 0.32 (mm)
ZZZZZ		09/24/2019 16:19	1		RTX-624 0.32 (mm)
ZZZZZ		09/24/2019 16:19	1		RTX-624 0.32 (mm)
MDLV 200-147678/8		09/24/2019 17:24	1		RTX-624 0.32 (mm)
MDLV 200-147678/9		09/24/2019 18:29	1		RTX-624 0.32 (mm)
MDLV 200-147678/10		09/24/2019 19:35	1		RTX-624 0.32 (mm)
MDLV 200-147678/11		09/24/2019 20:40	1		RTX-624 0.32 (mm)
MDLV 200-147678/12		09/24/2019 21:45	1		RTX-624 0.32 (mm)
MDLV 200-147678/13		09/24/2019 22:50	1		RTX-624 0.32 (mm)
MDLV 200-147678/14		09/24/2019 23:54	1		RTX-624 0.32 (mm)
MDLV 200-147678/15		09/25/2019 00:58	1		RTX-624 0.32 (mm)
MDLV 200-147678/16		09/25/2019 02:03	1		RTX-624 0.32 (mm)
MDLV 200-147678/17		09/25/2019 03:07	1		RTX-624 0.32 (mm)
MDLV 200-147678/18		09/25/2019 04:11	1		RTX-624 0.32 (mm)
MDLV 200-147678/19		09/25/2019 05:15	1		RTX-624 0.32 (mm)
MDLV 200-147678/20		09/25/2019 06:19	1		RTX-624 0.32 (mm)
MDLV 200-147678/21		09/25/2019 07:23	1		RTX-624 0.32 (mm)
MDLV 200-147678/22		09/25/2019 08:27	1		RTX-624 0.32 (mm)
MDLV 200-147678/23		09/25/2019 09:31	1		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-51013-1

SDG No.: _____

Instrument ID: CHC.i Start Date: 10/17/2019 08:16Analysis Batch Number: 148544 End Date: 10/18/2019 04:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-148544/1		10/17/2019 08:16	1	38287-01.D	RTX-624 0.32 (mm)
CCVIS 200-148544/2		10/17/2019 09:02	1	38287-02.D	RTX-624 0.32 (mm)
LCS 200-148544/3		10/17/2019 09:56	1	38287-03.D	RTX-624 0.32 (mm)
MB 200-148544/4		10/17/2019 10:50	1	38287-04.D	RTX-624 0.32 (mm)
ZZZZZ		10/17/2019 14:38	40.3		RTX-624 0.32 (mm)
ZZZZZ		10/17/2019 15:31	10		RTX-624 0.32 (mm)
ZZZZZ		10/17/2019 16:24	10		RTX-624 0.32 (mm)
200-51013-1		10/17/2019 17:18	2	38287-11.D	RTX-624 0.32 (mm)
ZZZZZ		10/17/2019 18:16	0.2		RTX-624 0.32 (mm)
ZZZZZ		10/17/2019 19:14	0.2		RTX-624 0.32 (mm)
ZZZZZ		10/17/2019 21:06	0.2		RTX-624 0.32 (mm)
ZZZZZ		10/17/2019 22:05	0.2		RTX-624 0.32 (mm)
ZZZZZ		10/17/2019 23:56	0.2		RTX-624 0.32 (mm)
ZZZZZ		10/18/2019 00:55	0.2		RTX-624 0.32 (mm)
ZZZZZ		10/18/2019 01:48	5000		RTX-624 0.32 (mm)
ZZZZZ		10/18/2019 02:47	0.2		RTX-624 0.32 (mm)
ZZZZZ		10/18/2019 03:45	0.2		RTX-624 0.32 (mm)
ZZZZZ		10/18/2019 04:44	0.2		RTX-624 0.32 (mm)

[illegible]

⁴ Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded

AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 200-51013-1

SDG No.: _____

Batch Number: 147607 Batch Start Date: 09/22/19 11:56 Batch Analyst: Guazzoni, Gabriel GBatch Method: TO-15 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialPressure	FinalPressure	InitialAmount	FinalAmount	ATTO15CAL1w 00207	ATTO15CAL2w 00283
BFB 200-147607/1		TO-15		1	1	200 mL	200 mL		
IC 200-147607/4		TO-15		1	1	200 mL	200 mL	35 mL	
IC 200-147607/5		TO-15		1	1	200 mL	200 mL	200 mL	
IC 200-147607/6		TO-15		1	1	200 mL	200 mL		200 mL
IC 200-147607/7		TO-15		1	1	200 mL	200 mL		
ICIS 200-147607/8		TO-15		1	1	200 mL	200 mL		
IC 200-147607/9		TO-15		1	1	200 mL	200 mL		
IC 200-147607/19		TO-15		1	1	200 mL	200 mL		
IC 200-147607/20		TO-15		1	1	200 mL	200 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	ATTO15CAL3w 00216	ATTO15CAL4w 00730	ATTO15CAL5w 00088	ATTO15CAL6w 00169	ATTO15CAL7w 00089	ATTO15CISs 00010
BFB 200-147607/1		TO-15							20 mL
IC 200-147607/4		TO-15							20 mL
IC 200-147607/5		TO-15							20 mL
IC 200-147607/6		TO-15							20 mL
IC 200-147607/7		TO-15		200 mL					20 mL
ICIS 200-147607/8		TO-15			200 mL				20 mL
IC 200-147607/9		TO-15				200 mL			20 mL
IC 200-147607/19		TO-15						200 mL	20 mL
IC 200-147607/20		TO-15					200 mL		20 mL

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 200-51013-1

SDG No.: _____

Batch Number: 147607 Batch Start Date: 09/22/19 11:56 Batch Analyst: Guazzoni, Gabriel GBatch Method: TO-15 Batch End Date: _____

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 200-51013-1

SDG No.: _____

Batch Number: 147678 Batch Start Date: 09/24/19 09:53 Batch Analyst: Bunma, Arthit 1Batch Method: TO-15 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialPressure	FinalPressure	InitialAmount	FinalAmount	ATTO15CISs 00010	ATTO15LCSW 00798
BFB 200-147678/1		TO-15		1	1	200 mL	200 mL	20 mL	
ICV 200-147678/3		TO-15		1	1	200 mL	200 mL	20 mL	200 mL

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 200-51013-1

SDG No.: _____

Batch Number: 148544 Batch Start Date: 10/17/19 08:16 Batch Analyst: Bunma, Arthit 1Batch Method: TO-15 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialPressure	FinalPressure	InitialAmount	FinalAmount	ATTO15CAL4w 00730	ATTO15CISs 00010
BFB 200-148544/1		TO-15		1	1	200 mL	200 mL		20 mL
CCVIS 200-148544/2		TO-15		1	1	200 mL	200 mL	200 mL	20 mL
LCS 200-148544/3		TO-15		1	1	200 mL	200 mL		20 mL
MB 200-148544/4		TO-15		1	1	200 mL	200 mL		20 mL
200-51013-A-1	AS Effluent 4Q19	TO-15	T	1	1	100 mL	200 mL		20 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ATTO15LCSW 00798					
BFB 200-148544/1		TO-15							
CCVIS 200-148544/2		TO-15							
LCS 200-148544/3		TO-15		200 mL					
MB 200-148544/4		TO-15							
200-51013-A-1	AS Effluent 4Q19	TO-15	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
SDG No.: _____
Matrix: Air Level: Low Lab File ID: 37598-04.D
Lab ID: LCS 200-146883/4 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Propylene	10.0	9.35	94	50-158	
Dichlorodifluoromethane	10.0	8.87	89	61-142	
Freon 22	10.0	8.51	85	60-147	
1,2-Dichlorotetrafluoroethane	10.0	8.96	90	71-141	
Chloromethane	10.0	9.15	92	56-141	
n-Butane	10.0	8.58	86	53-151	
Vinyl chloride	10.0	9.35	94	61-135	
1,3-Butadiene	10.0	9.03	90	58-139	
Bromomethane	10.0	10.7	107	72-124	
Chloroethane	10.0	10.6	106	68-130	
Bromoethene (Vinyl Bromide)	10.0	11.4	114	75-125	
Trichlorofluoromethane	10.0	9.70	97	70-129	
Ethanol	15.0	13.6	90	50-150	
Freon TF	10.0	8.83	88	70-121	
1,1-Dichloroethene	10.0	8.75	88	68-120	
Acetone	10.0	8.13	81	54-154	
Isopropyl alcohol	10.0	8.80	88	53-142	
Carbon disulfide	10.0	9.15	91	71-138	
3-Chloropropene	10.0	5.26	53	50-150	
Methylene Chloride	10.0	7.58	76	59-137	
tert-Butyl alcohol	10.0	8.80	88	66-132	
Methyl tert-butyl ether	10.0	8.07	81	70-127	
trans-1,2-Dichloroethene	10.0	7.92	79	69-137	
n-Hexane	10.0	6.75	68	63-138	
1,1-Dichloroethane	10.0	7.77	78	66-130	
Vinyl acetate	10.0	7.95	79	59-149	
Ethyl acetate	10.0	9.04	90	70-131	
Methyl Ethyl Ketone	10.0	8.36	84	72-124	
cis-1,2-Dichloroethene	10.0	8.54	85	72-121	
Chloroform	10.0	8.10	81	73-124	
Tetrahydrofuran	10.0	8.41	84	60-149	
1,1,1-Trichloroethane	10.0	8.26	83	72-127	
Cyclohexane	10.0	8.77	88	76-124	
Carbon tetrachloride	10.0	5.39	54	71-133	*
2,2,4-Trimethylpentane	10.0	8.20	82	68-131	
Benzene	10.0	8.59	86	73-119	
1,2-Dichloroethane	10.0	7.61	76	68-135	
n-Heptane	10.0	7.72	77	60-142	
Trichloroethene	10.0	8.59	86	73-122	
Methyl methacrylate	10.0	8.74	87	73-129	
1,2-Dichloropropane	10.0	8.55	85	69-128	
1,4-Dioxane	10.0	10.3	103	66-129	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: 37598-04.D
 Lab ID: LCS 200-146883/4 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	8.60	86	75-127	
cis-1,3-Dichloropropene	10.0	8.42	84	74-125	
methyl isobutyl ketone	10.0	7.88	79	58-144	
Toluene	10.0	8.84	88	75-122	
trans-1,3-Dichloropropene	10.0	7.95	80	74-128	
1,1,2-Trichloroethane	10.0	8.86	89	75-126	
Tetrachloroethene	10.0	9.23	92	70-125	
Methyl Butyl Ketone (2-Hexanone)	10.0	7.52	75	57-143	
Dibromochloromethane	10.0	9.33	93	73-125	
1,2-Dibromoethane	10.0	9.31	93	78-122	
Chlorobenzene	10.0	9.03	90	76-119	
Ethylbenzene	10.0	8.45	84	74-122	
m,p-Xylene	20.0	18.0	90	76-121	
Xylene, o-	10.0	8.69	87	73-123	
Styrene	10.0	8.67	87	74-125	
Bromoform	10.0	10.1	101	53-149	
Cumene	10.0	8.85	89	73-123	
1,1,2,2-Tetrachloroethane	10.0	8.94	89	74-126	
n-Propylbenzene	10.0	8.59	86	73-127	
4-Ethyltoluene	10.0	8.71	87	75-129	
1,3,5-Trimethylbenzene	10.0	8.79	88	72-126	
2-Chlorotoluene	10.0	8.40	84	74-126	
tert-Butylbenzene	10.0	8.89	89	71-125	
1,2,4-Trimethylbenzene	10.0	8.90	89	71-129	
sec-Butylbenzene	10.0	8.87	89	70-128	
4-Isopropyltoluene	10.0	8.96	90	68-130	
1,3-Dichlorobenzene	10.0	8.84	88	69-131	
1,4-Dichlorobenzene	10.0	8.71	87	67-132	
Benzyl chloride	10.0	8.31	83	60-136	
n-Butylbenzene	10.0	8.56	86	65-137	
1,2-Dichlorobenzene	10.0	8.76	88	68-129	
1,2,4-Trichlorobenzene	10.0	7.52	75	50-150	
Hexachlorobutadiene	10.0	7.44	74	58-130	
Naphthalene	10.0	7.25	73	50-150	

Column to be used to flag recovery and RPD values

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
SDG No.: _____
Lab File ID: 37598-05.D Lab Sample ID: MB 200-146883/5
Matrix: Air Heated Purge: (Y/N) N
Instrument ID: CHB.i Date Analyzed: 09/03/2019 13:14
GC Column: RTX-624 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-146883/4	37598-04.D	09/03/2019 12:21
3151	200-50375-7	37598-19.D	09/04/2019 02:46

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-146883/5
 Matrix: Air Lab File ID: 37598-05.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 09/03/2019 13:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 146883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene (Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.20	U	0.20	0.20
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.40	U	0.40	0.40
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-146883/5
 Matrix: Air Lab File ID: 37598-05.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 09/03/2019 13:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 146883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.70	U	0.70	0.70
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-146883/5
 Matrix: Air Lab File ID: 37598-05.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 09/03/2019 13:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 146883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHB.i\20190903-37598.b\37598-05.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 03-Sep-2019 13:14:30 ALS Bottle#: 7 Worklist Smp#: 5
 Purge Vol: 200.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0037598-005
 Operator ID: ggg Instrument ID: CHB.i
 Method: \\chromna\Burlington\ChromData\CHB.i\20190903-37598.b\TO15_LLNJ_TO3.m
 Limit Group: AI_TO15_ICAL
 Last Update: 04-Sep-2019 09:28:26 Calib Date: 22-Aug-2019 12:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal/External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Burlington\ChromData\CHB.i\20190821-37429.b\37429-23.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX0335

First Level Reviewer: puangmaleek

Date: 04-Sep-2019 09:28:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41		3.134					ND	
2 Dichlorodifluoromethane	85		3.193					ND	
3 Chlorodifluoromethane	51		3.225					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.407					ND	
5 Chloromethane	50		3.529					ND	
6 Butane	43		3.700					ND	
7 Vinyl chloride	62		3.732					ND	
8 Butadiene	54		3.802					ND	
10 Bromomethane	94		4.453					ND	
11 Chloroethane	64		4.682					ND	
12 2-Methylbutane	43		4.768					ND	
13 Vinyl bromide	106		5.082					ND	
14 Trichlorofluoromethane	101		5.189					ND	
15 Pentane	43		5.323					ND	
16 Ethanol	45		5.627					ND	
17 Ethyl ether	59		5.787					ND	
18 Acrolein	56		6.144					ND	
19 1,1,2-Trichloro-1,2,2-trif	101		6.208					ND	
20 1,1-Dichloroethene	96		6.278					ND	
21 Acetone	43		6.417					ND	
22 Isopropyl alcohol	45		6.635					ND	
23 Carbon disulfide	76		6.705					ND	
24 3-Chloro-1-propene	41		6.972					ND	
26 Acetonitrile	41		7.009					ND	
27 Methylene Chloride	49		7.228					ND	
28 2-Methyl-2-propanol	59		7.329					ND	
29 Methyl tert-butyl ether	73		7.575					ND	
30 trans-1,2-Dichloroethene	61		7.639					ND	
31 Acrylonitrile	53		7.697					ND	
32 Hexane	57	7.975	7.975	0.000	92	8122		0.1221	
33 1,1-Dichloroethane	63		8.375					ND	
34 Vinyl acetate	43		8.381					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
36 2-Butanone (MEK)	72		9.261					ND	
37 cis-1,2-Dichloroethene	96		9.283					ND	
35 Ethyl acetate	88		9.283					ND	
* 39 Chlorobromomethane	128	9.640	9.640	0.000	92	226617	10.0	10.0	
38 Tetrahydrofuran	42		9.656					ND	
40 Chloroform	83		9.720					ND	
42 1,1,1-Trichloroethane	97		9.982					ND	
43 Cyclohexane	84		9.998					ND	
S 41 1,2-Dichloroethene, Total	61		10.000					ND	
44 Carbon tetrachloride	117		10.190					ND	
45 Isooctane	57		10.478					ND	
46 Benzene	78	10.516	10.516	0.006	1	2475		0.0233	M
47 1,2-Dichloroethane	62		10.601					ND	
48 n-Heptane	43		10.729					ND	
A 49 GRO	1	10.833	(4.758-16.908)		0	3743745		0	
* 50 1,4-Difluorobenzene	114	11.049	11.049	0.000	94	1101378	10.0	10.0	
51 n-Butanol	56		11.231					ND	
53 Trichloroethene	95		11.423					ND	
54 1,2-Dichloropropane	63		11.786					ND	
55 Methyl methacrylate	69		11.823					ND	
56 1,4-Dioxane	88		11.914					ND	
57 Dibromomethane	174		11.972					ND	
58 Dichlorobromomethane	83		12.148					ND	
A 59 TVOC as Toluene	1	12.442	(3.124-21.760)		0	4272423		0	
60 cis-1,3-Dichloropropene	75		12.773					ND	
61 4-Methyl-2-pentanone (MIBK)	43		12.917					ND	
63 n-Octane	43		13.200					ND	
64 Toluene	92		13.205					ND	
66 trans-1,3-Dichloropropene	75		13.563					ND	
67 1,1,2-Trichloroethane	83		13.830					ND	
68 Tetrachloroethene	166		13.984					ND	
69 2-Hexanone	43		14.091					ND	
70 Chlorodibromomethane	129		14.390					ND	
71 Ethylene Dibromide	107		14.593					ND	
* 72 Chlorobenzene-d5	117	15.159	15.158	0.001	85	943664	10.0	10.0	
73 Chlorobenzene	112		15.201					ND	U
74 Ethylbenzene	91		15.271					ND	
75 n-Nonane	57		15.297					ND	
76 m-Xylene & p-Xylene	106		15.420					ND	U
78 o-Xylene	106	15.938	15.938	0.006	4	1485		0.0236	7M
79 Styrene	104		15.954					ND	
S 77 Xylenes, Total	106				0			0.0236	7
80 Bromoform	173		16.247					ND	
81 Isopropylbenzene	105		16.343					ND	
83 1,1,2,2-Tetrachloroethane	83		16.749					ND	
84 N-Propylbenzene	91		16.824					ND	
85 1,2,3-Trichloropropane	75		16.834					ND	
86 n-Decane	57		16.898					ND	
87 4-Ethyltoluene	105		16.952					ND	
88 2-Chlorotoluene	91		16.989					ND	
89 1,3,5-Trimethylbenzene	105		17.016					ND	
90 Alpha Methyl Styrene	118		17.288					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
91 tert-Butylbenzene	119		17.389					ND	
92 1,2,4-Trimethylbenzene	105		17.464					ND	U
93 sec-Butylbenzene	105		17.645					ND	
94 4-Isopropyltoluene	119		17.800					ND	
95 1,3-Dichlorobenzene	146		17.875					ND	U
96 1,4-Dichlorobenzene	146		17.987					ND	U
97 Benzyl chloride	91		18.131					ND	
98 Undecane	57		18.275					ND	
99 n-Butylbenzene	91		18.302					ND	
100 1,2-Dichlorobenzene	146		18.467					ND	
102 Dodecane	57		19.716					ND	
103 1,2,4-Trichlorobenzene	180		20.805					ND	
104 Hexachlorobutadiene	225		20.976					ND	U
105 Naphthalene	128		21.280					ND	U
106 1,2,3-Trichlorobenzene	180		21.750					ND	
122 Total Alkanes TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

ATTO15BISs_00007

Amount Added: 20.00

Units: mL

Run Reagent

Report Date: 04-Sep-2019 09:28:27

Chrom Revision: 2.3 22-Aug-2019 12:55:36

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHB.i\20190903-37598.b\37598-05.D

Injection Date: 03-Sep-2019 13:14:30

Instrument ID: CHB.i

Operator ID: ggg

Lims ID: mb

Worklist Smp#: 5

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

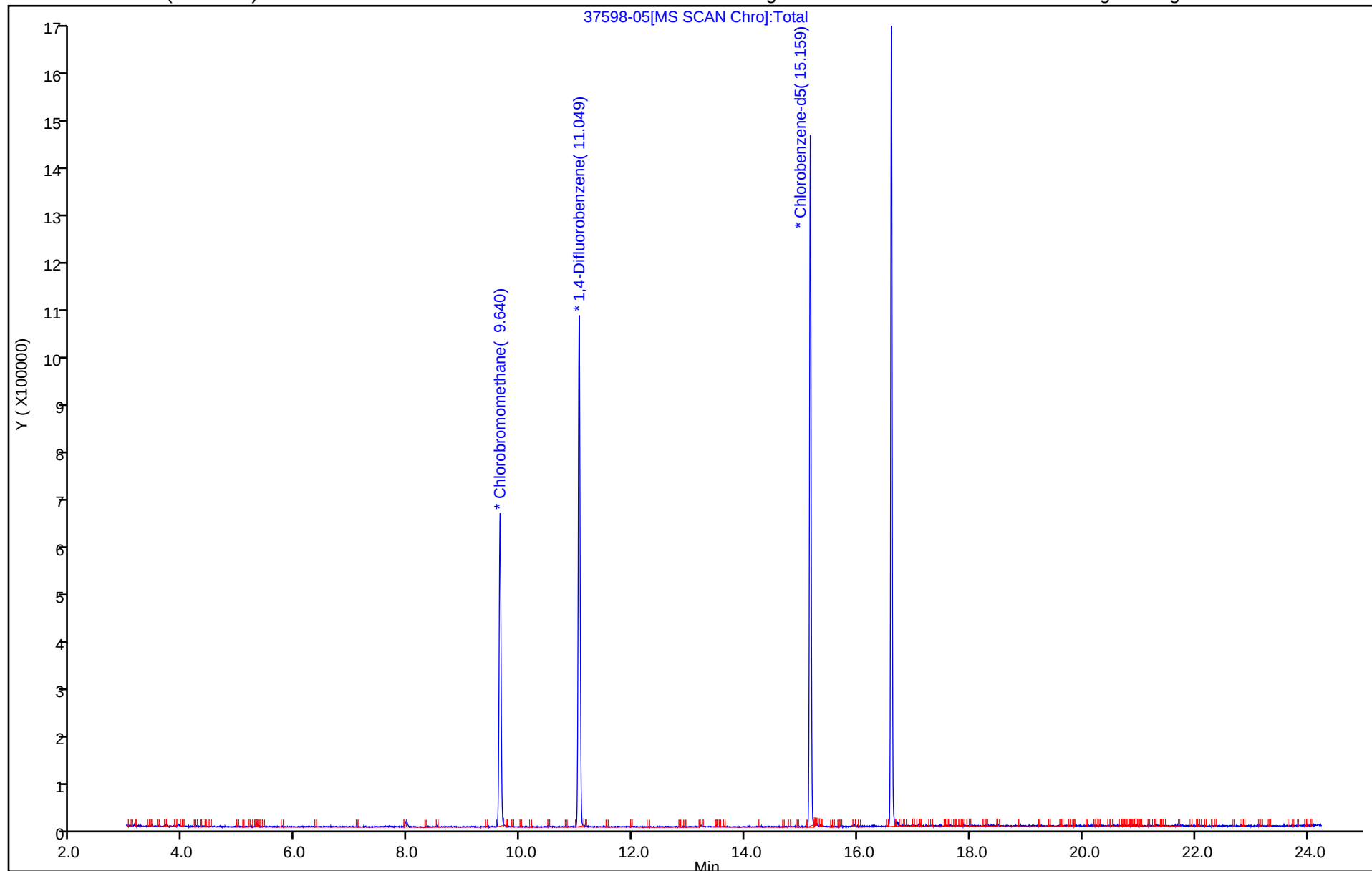
ALS Bottle#: 7

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHB.i\20190903-37598.b\37598-05.D

Injection Date: 03-Sep-2019 13:14:30

Instrument ID: CHB.i

Lims ID: mb

Client ID:

Operator ID: ggg

ALS Bottle#:

7

Worklist Smp#: 5

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

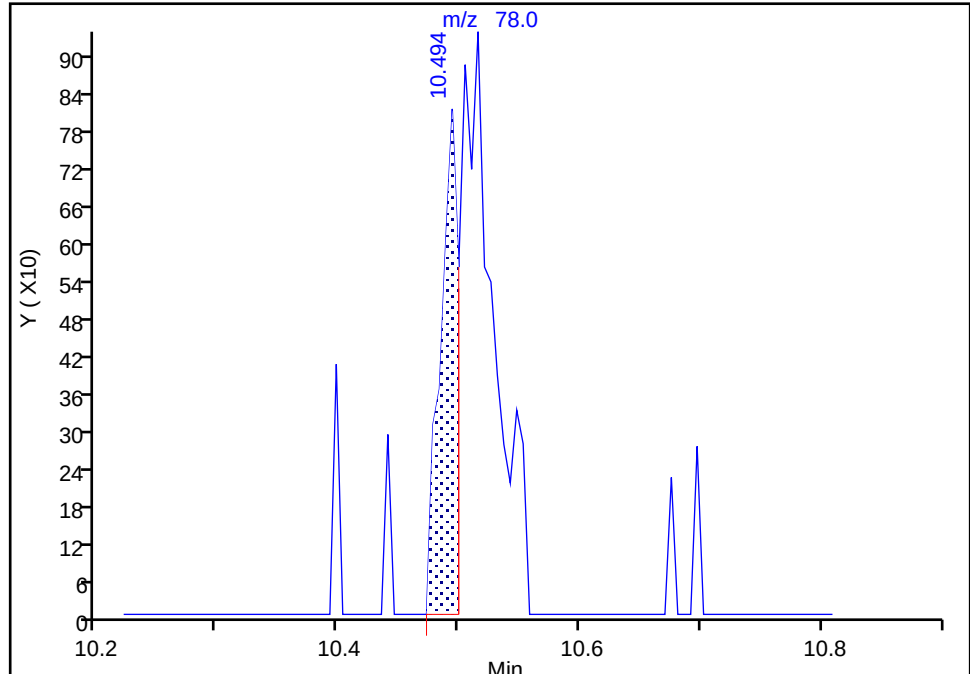
Detector: MS SCAN

46 Benzene, CAS: 71-43-2

Signal: 1

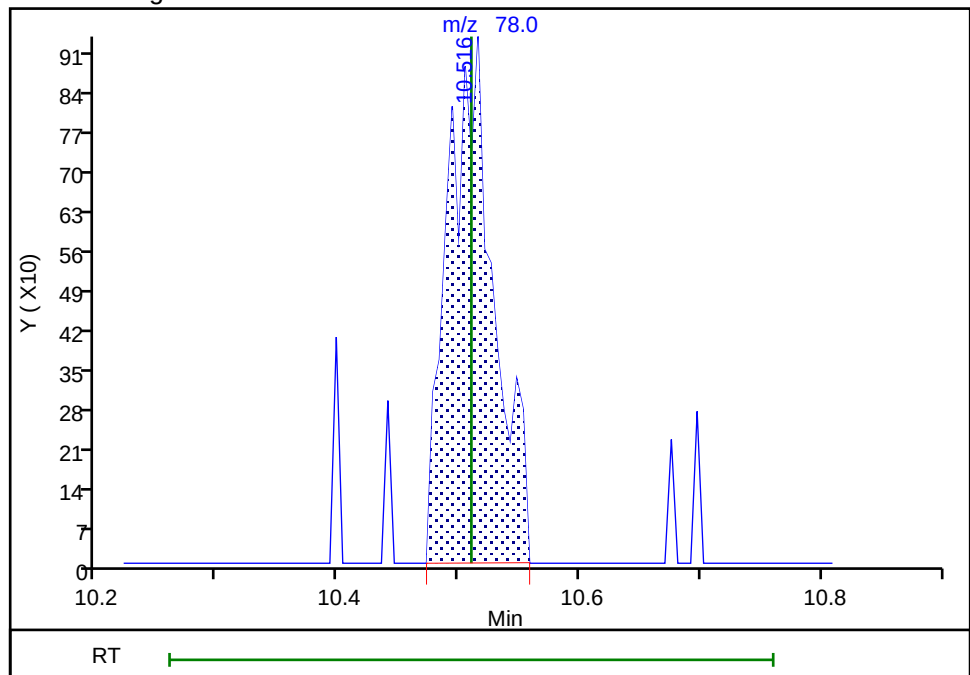
RT: 10.49
Area: 845
Amount: 0.007950
Amount Units: ppb v/v

Processing Integration Results



RT: 10.52
Area: 2475
Amount: 0.023285
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 04-Sep-2019 09:26:53

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHB.i\20190903-37598.b\37598-05.D

Injection Date: 03-Sep-2019 13:14:30

Instrument ID: CHB.i

Lims ID: mb

Client ID:

Operator ID: ggg

ALS Bottle#:

7

Worklist Smp#: 5

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Method: TO15_LLNI_TO3

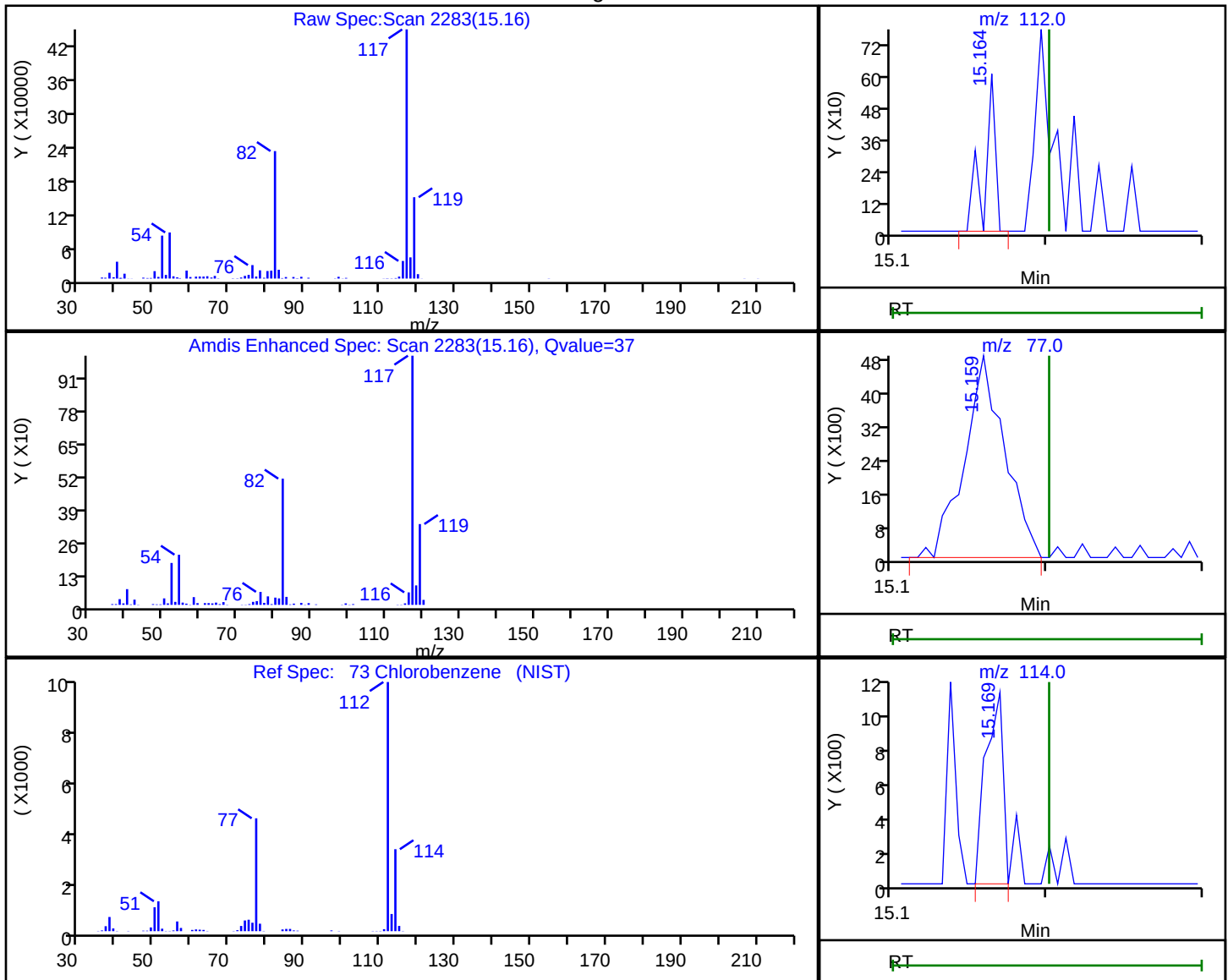
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

73 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
15.16	112.00	294	0.003058
15.16	77.00	8787	
15.17	114.00	844	

Reviewer: puangmaleek, 04-Sep-2019 09:27:16

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHB.i\20190903-37598.b\37598-05.D

Injection Date: 03-Sep-2019 13:14:30

Instrument ID: CHB.i

Lims ID: mb

Client ID:

Operator ID: ggg

ALS Bottle#:

7

Worklist Smp#: 5

Purge Vol: 200.000 mL

Dil. Factor:

1.0000

Method: TO15_LLNI_TO3

Limit Group:

AI_TO15_ICAL

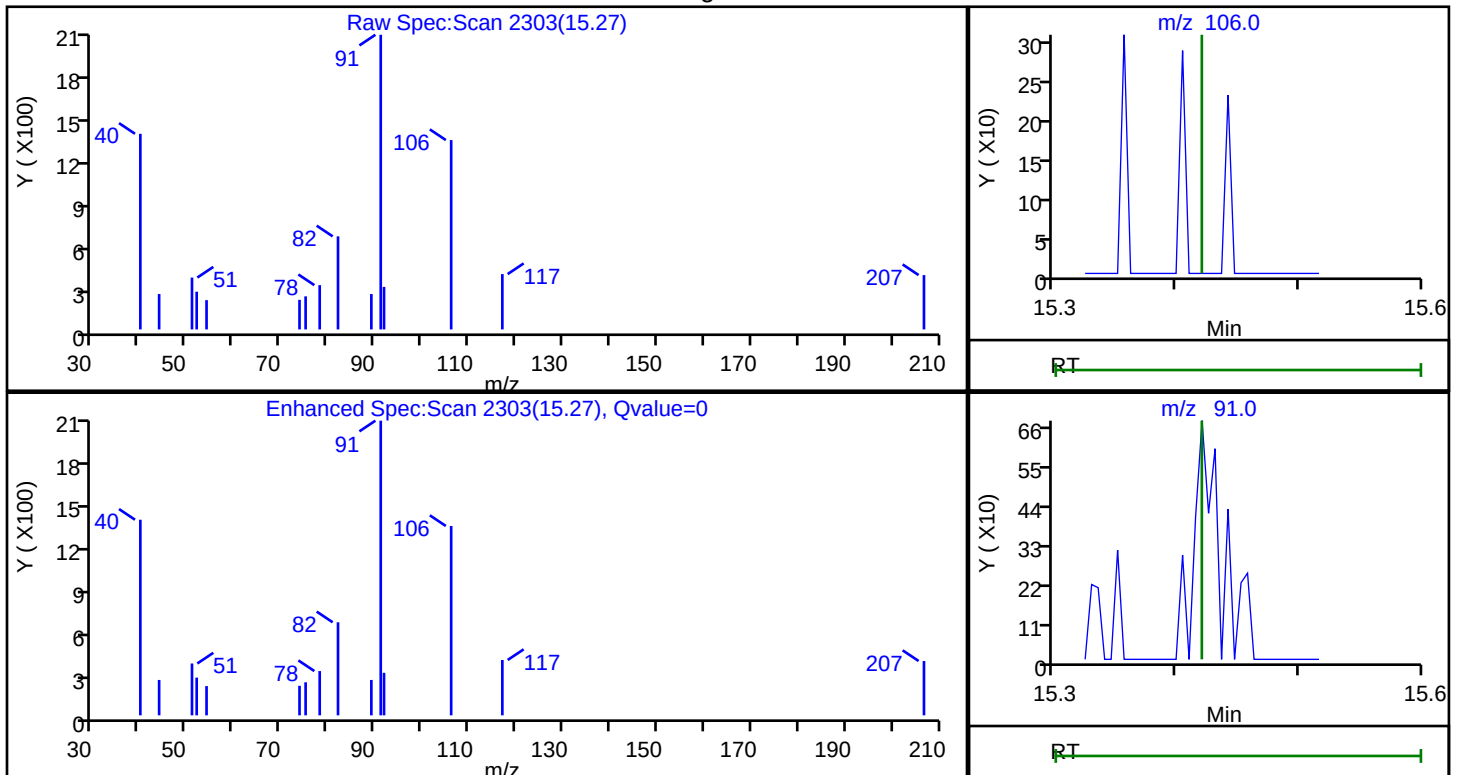
Column: RTX-624 (0.32 mm)

Detector

MS SCAN

76 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
15.27	106.00	1182	0.018678
15.27	91.00	3648	

Reviewer: puangmaleek, 04-Sep-2019 09:27:22

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

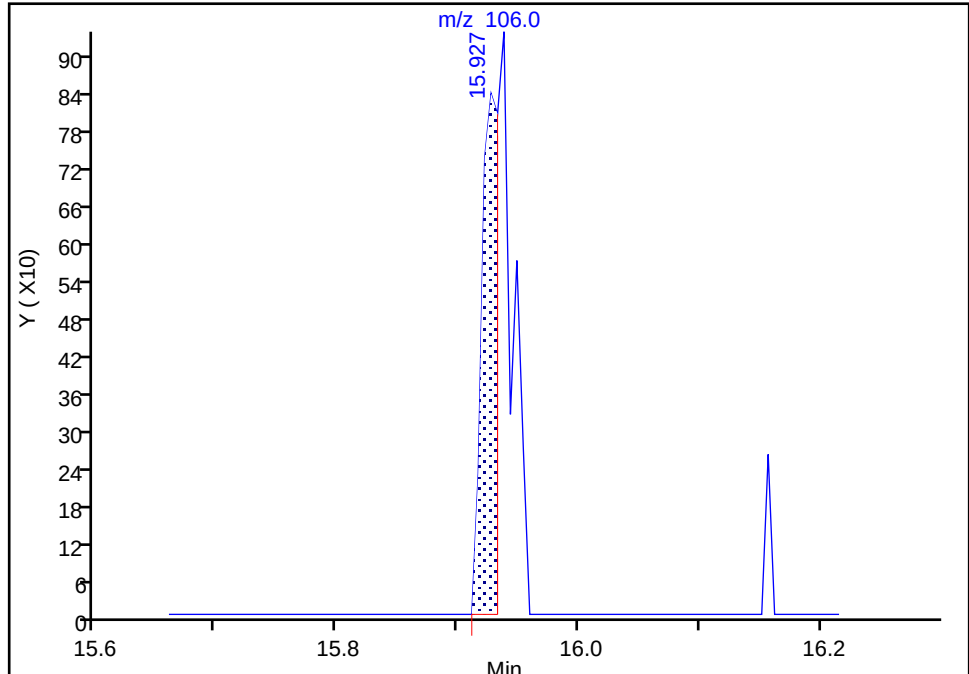
Data File: \\chromna\Burlington\ChromData\CHB.i\20190903-37598.b\37598-05.D
Injection Date: 03-Sep-2019 13:14:30 Instrument ID: CHB.i
Lims ID: mb
Client ID:
Operator ID: ggg ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

78 o-Xylene, CAS: 95-47-6

Signal: 1

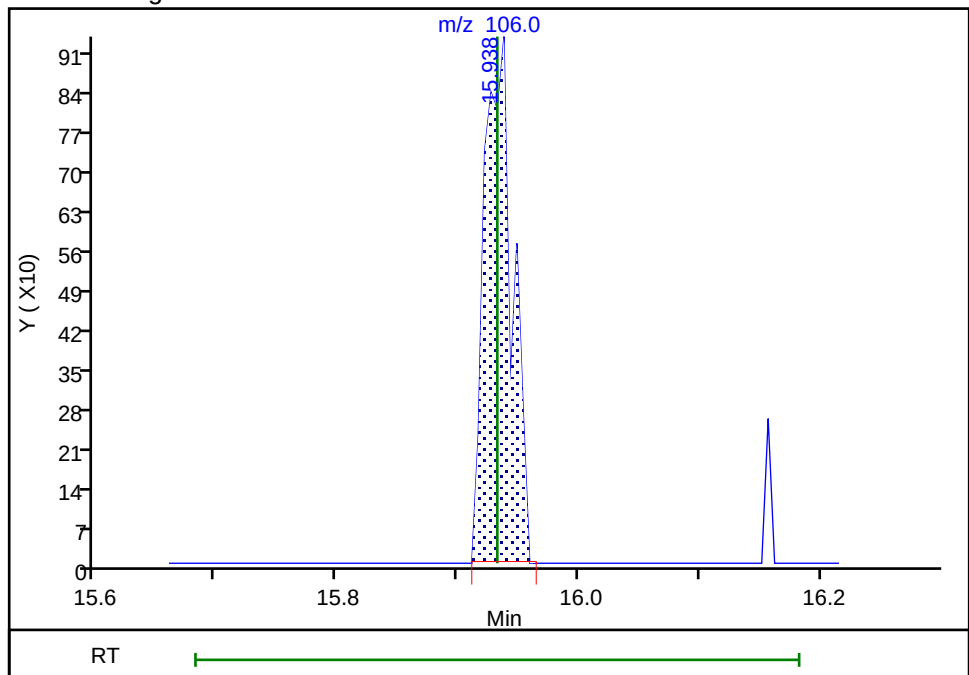
RT: 15.93
Area: 829
Amount: 0.013178
Amount Units: ppb v/v

Processing Integration Results



RT: 15.94
Area: 1485
Amount: 0.023606
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 04-Sep-2019 09:27:28

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHB.i\20190903-37598.b\37598-05.D

Injection Date: 03-Sep-2019 13:14:30

Instrument ID: CHB.i

Lims ID: mb

Client ID:

Operator ID: ggg

ALS Bottle#:

7

Worklist Smp#: 5

Purge Vol: 200.000 mL

Dil. Factor:

1.0000

Method: TO15_LLNI_TO3

Limit Group:

AI_TO15_ICAL

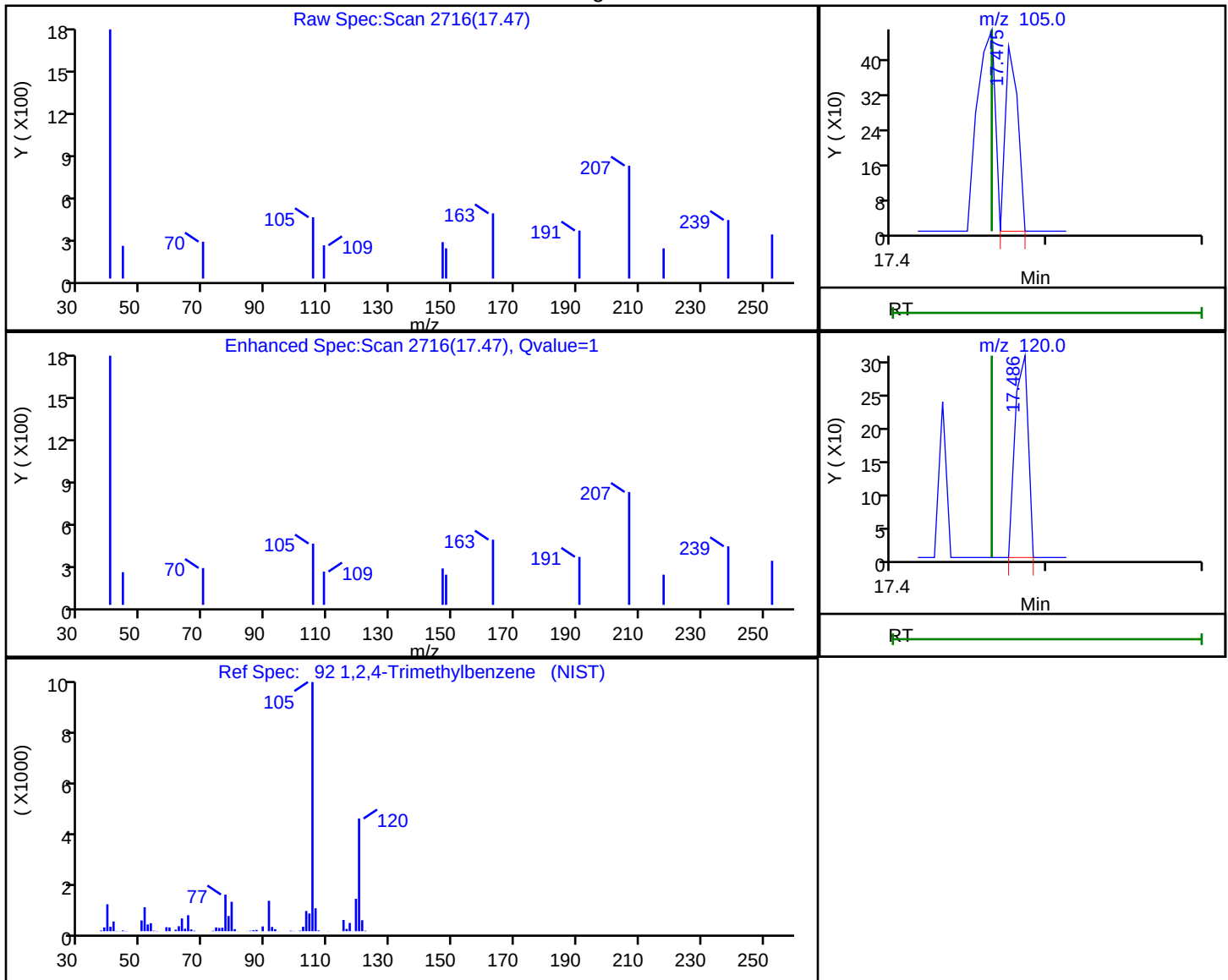
Column: RTX-624 (0.32 mm)

Detector

MS SCAN

92 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



RT	Mass	Response	Amount
17.47	105.00	237	0.001586
17.49	120.00	179	

Reviewer: puangmaleek, 04-Sep-2019 09:27:55

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHB.i\20190903-37598.b\37598-05.D

Injection Date: 03-Sep-2019 13:14:30

Instrument ID: CHB.i

Lims ID: mb

Client ID:

Operator ID: ggg

ALS Bottle#:

7

Worklist Smp#: 5

Purge Vol: 200.000 mL

Dil. Factor:

1.0000

Method: TO15_LLNI_TO3

Limit Group:

AI_TO15_ICAL

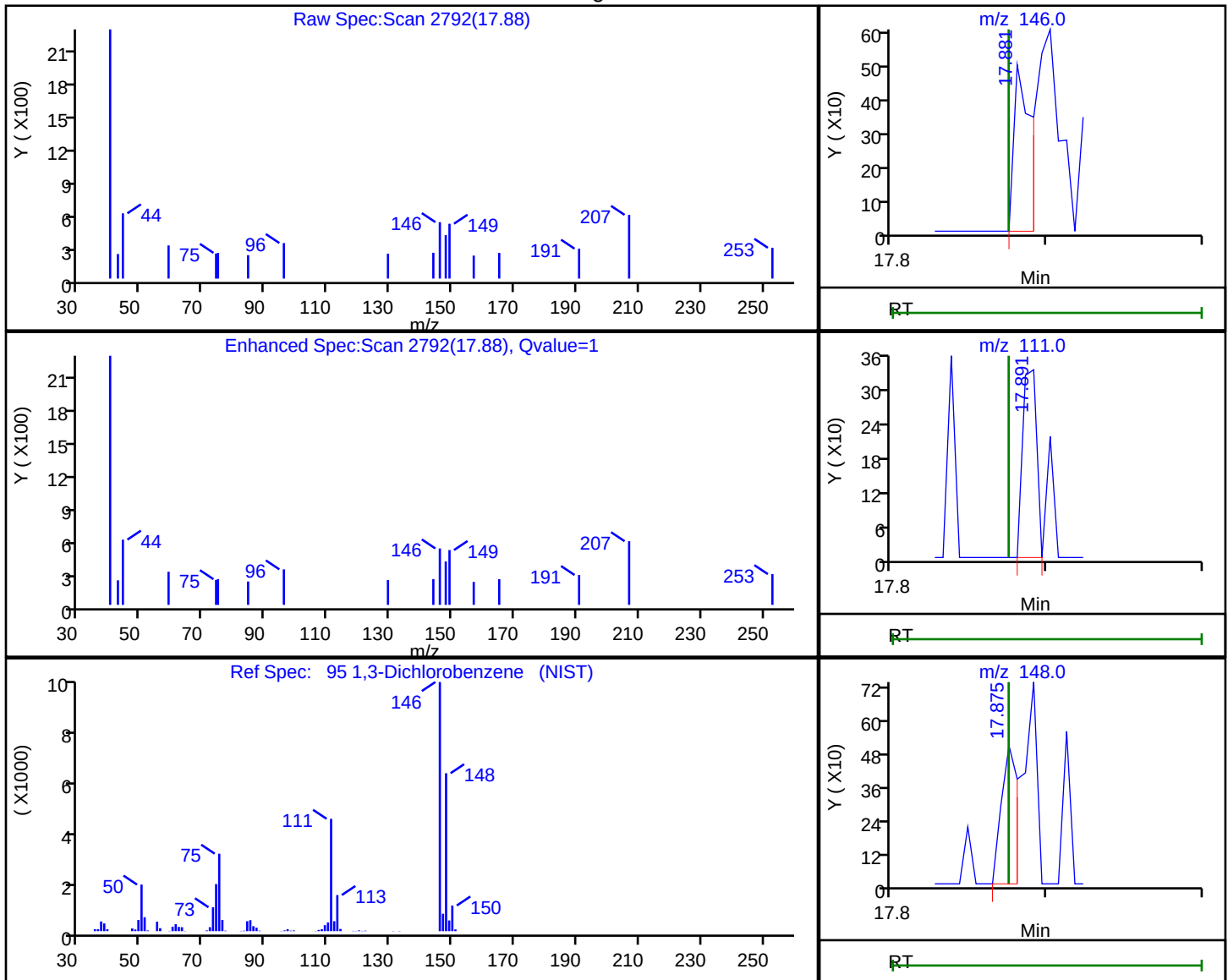
Column: RTX-624 (0.32 mm)

Detector

MS SCAN

95 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
17.88	146.00	382	0.003441
17.89	111.00	211	
17.88	148.00	377	

Reviewer: puangmaleek, 04-Sep-2019 09:28:07

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHB.i\20190903-37598.b\37598-05.D

Injection Date: 03-Sep-2019 13:14:30

Instrument ID: CHB.i

Lims ID: mb

Client ID:

Operator ID: ggg

ALS Bottle#:

7

Worklist Smp#: 5

Purge Vol: 200.000 mL

Dil. Factor:

1.0000

Method: TO15_LLNI_TO3

Limit Group:

AI_TO15_ICAL

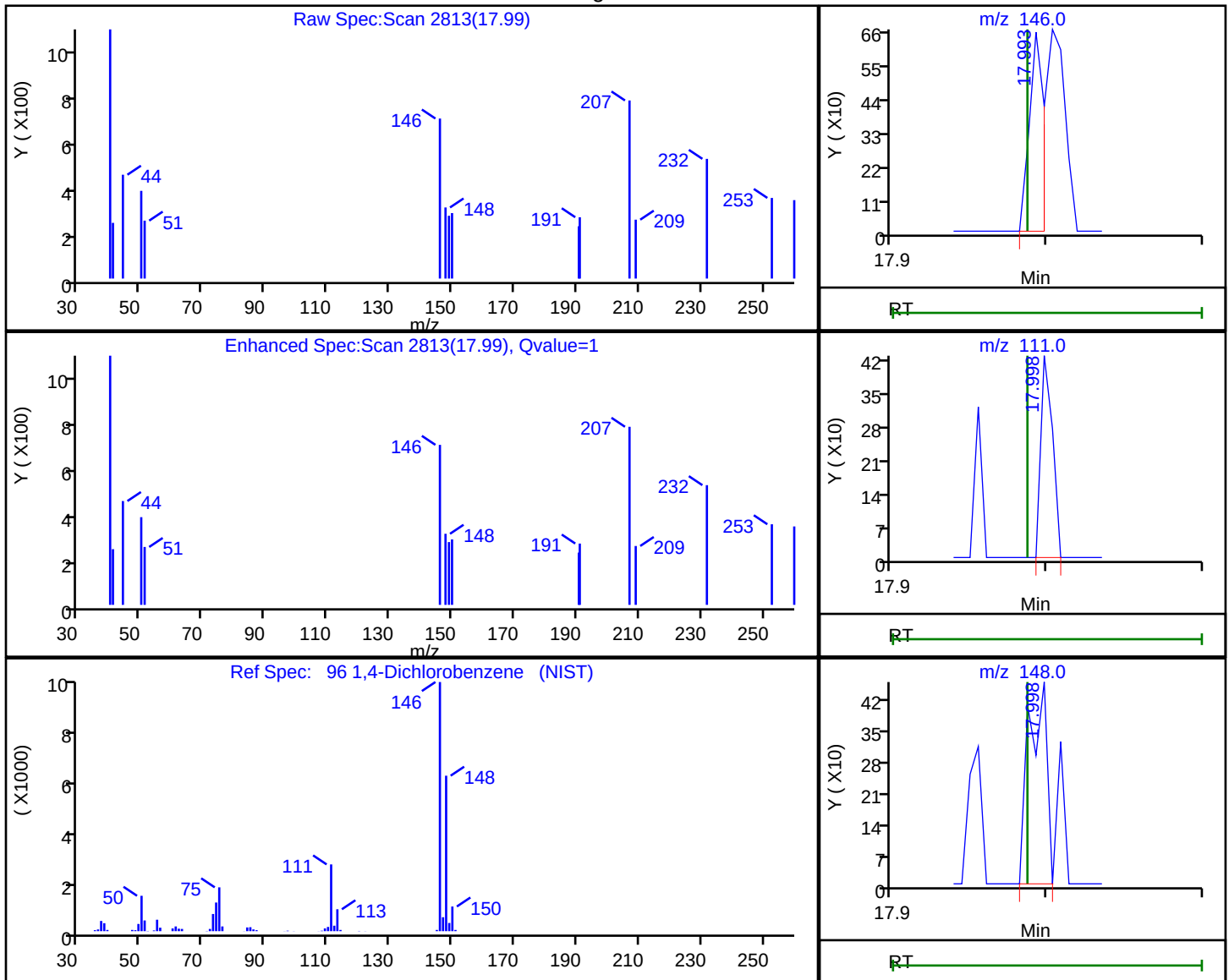
Column: RTX-624 (0.32 mm)

Detector

MS SCAN

96 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
17.99	146.00	433	0.003921
18.00	111.00	224	
18.00	148.00	368	

Reviewer: puangmaleek, 04-Sep-2019 09:28:09

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHB.i\20190903-37598.b\37598-05.D

Injection Date: 03-Sep-2019 13:14:30

Instrument ID: CHB.i

Lims ID: mb

Client ID:

Operator ID: ggg

ALS Bottle#:

7

Worklist Smp#: 5

Purge Vol: 200.000 mL

Dil. Factor:

1.0000

Method: TO15_LLNJ_TO3

Limit Group:

AI_TO15_ICAL

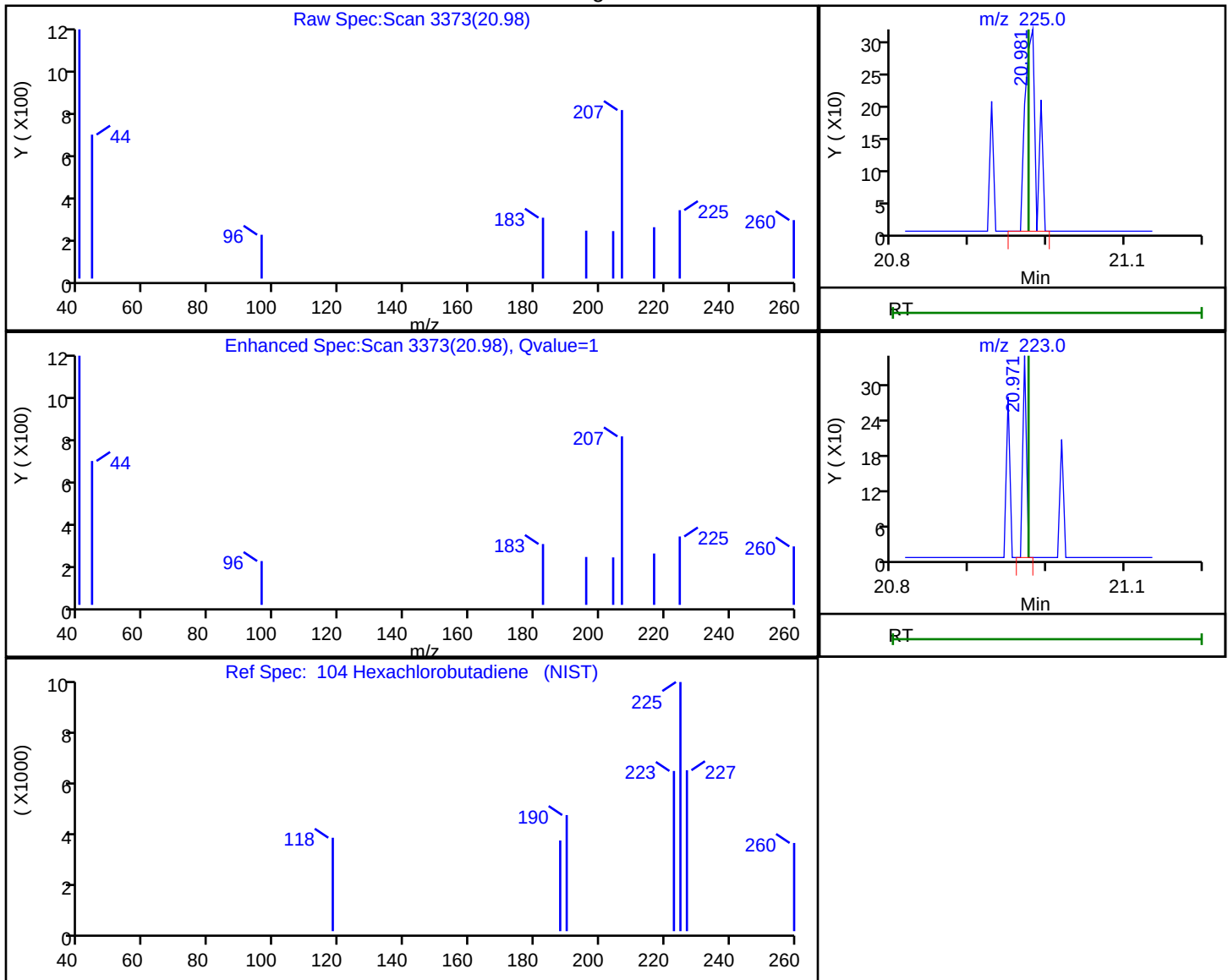
Column: RTX-624 (0.32 mm)

Detector

MS SCAN

104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



RT	Mass	Response	Amount
20.98	225.00	323	0.003283
20.97	223.00	111	

Reviewer: puangmaleek, 04-Sep-2019 09:28:20

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHB.i\20190903-37598.b\37598-05.D

Injection Date: 03-Sep-2019 13:14:30

Instrument ID: CHB.i

Lims ID: mb

Client ID:

Operator ID: ggg

ALS Bottle#:

7

Worklist Smp#: 5

Purge Vol: 200.000 mL

Dil. Factor:

1.0000

Method: TO15_LLNJ_TO3

Limit Group:

AI_TO15_ICAL

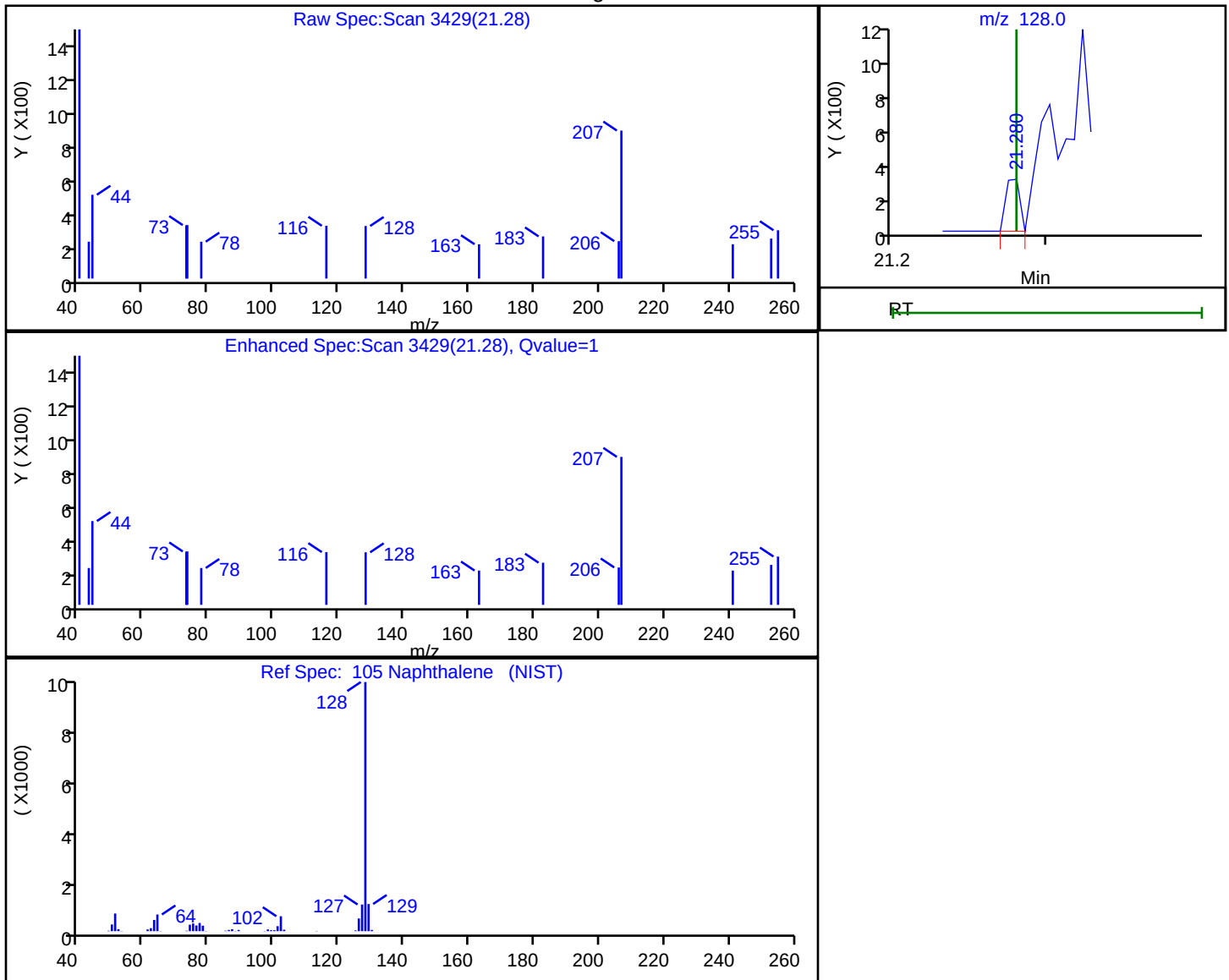
Column: RTX-624 (0.32 mm)

Detector

MS SCAN

105 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
21.28	128.00	195	0.001114

Reviewer: puangmaleek, 04-Sep-2019 09:28:22

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
 SDG No.: _____
 Lab File ID: 37429-01.D BFB Injection Date: 08/21/2019
 Instrument ID: CHB.i BFB Injection Time: 16:44
 Analysis Batch No.: 146515

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.7
75	30.0 - 66.0% of mass 95	50.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.6 (0.5) 1
174	50.0 - 120.0% of mass 95	108.5
175	4.0 - 9.0 % of mass 174	9.0 (8.3) 1
176	93.0 - 101.0% of mass 174	108.4 (99.9) 1
177	5.0 - 9.0% of mass 176	6.8 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-146515/5	37429-05.D	08/21/2019	20:08
	IC 200-146515/6	37429-06.D	08/21/2019	21:00
	IC 200-146515/7	37429-07.D	08/21/2019	21:53
	ICIS 200-146515/8	37429-08.D	08/21/2019	22:46
	IC 200-146515/12	37429-12.D	08/22/2019	02:16
	IC 200-146515/13	37429-13.D	08/22/2019	03:08
	IC 200-146515/22	37429-22.D	08/22/2019	11:01
	ICV 200-146515/24	37429-24.D	08/22/2019	13:12

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
 SDG No.: _____
 Lab File ID: 37598-01.D BFB Injection Date: 09/03/2019
 Instrument ID: CHB.i BFB Injection Time: 09:44
 Analysis Batch No.: 146883

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	20.8	
75	30.0 - 66.0% of mass 95	51.3	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.0	(0.0) 1
174	50.0 - 120.0% of mass 95	98.5	
175	4.0 - 9.0 % of mass 174	8.3	(8.5) 1
176	93.0 - 101.0% of mass 174	95.0	(96.4) 1
177	5.0 - 9.0% of mass 176	6.1	(6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-146883/3	37598-03.D	09/03/2019	11:29
	LCS 200-146883/4	37598-04.D	09/03/2019	12:21
	MB 200-146883/5	37598-05.D	09/03/2019	13:14
3151	200-50375-7	37598-19.D	09/04/2019	02:46

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
 SDG No.: _____
 Sample No.: ICIS 200-146515/8 Date Analyzed: 08/21/2019 22:46
 Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): 37429-08.D Heated Purge: (Y/N) N
 Calibration ID: 42256

	BCM		DFBZ		CBNZd5		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	153098	9.65	770180	11.06	688863	15.16	
UPPER LIMIT	214337	9.98	1078252	11.39	964408	15.49	
LOWER LIMIT	91859	9.32	462108	10.73	413318	14.83	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-146515/24		95145	9.65	504561	11.05	457127	15.16

BCM = Bromochloromethane
 DFBZ = 1,4-Difluorobenzene
 CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
 RT Limit = $\pm$ 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
 SDG No.: _____
 Sample No.: CCVIS 200-146883/3 Date Analyzed: 09/03/2019 11:29
 Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): 37598-03.D Heated Purge: (Y/N) N
 Calibration ID: 42256

		BCM		DFBZ		CBNZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		208574	9.64	1022944	11.05	914815	15.16
UPPER LIMIT		292004	9.97	1432122	11.38	1280741	15.49
LOWER LIMIT		125144	9.31	613766	10.72	548889	14.83
LAB SAMPLE ID		CLIENT SAMPLE ID					
LCS 200-146883/4		222668	9.65	1076601	11.05	951429	15.16
MB 200-146883/5		226617	9.64	1101378	11.05	943664	15.16
200-50375-7		3151	128248	9.64	634688	11.04	561312

BCM = Bromochloromethane
 DFBZ = 1,4-Difluorobenzene
 CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
 RT Limit = $\pm$ 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
 SDG No.: _____
 Client Sample ID: 3151 Lab Sample ID: 200-50375-7
 Matrix: Air Lab File ID: 37598-19.D
 Analysis Method: TO-15 Date Collected: 09/02/2019 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/04/2019 02:46
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 146883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U *	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
 SDG No.: _____
 Client Sample ID: 3151 Lab Sample ID: 200-50375-7
 Matrix: Air Lab File ID: 37598-19.D
 Analysis Method: TO-15 Date Collected: 09/02/2019 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/04/2019 02:46
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 146883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
 SDG No.: _____
 Client Sample ID: 3151 Lab Sample ID: 200-50375-7
 Matrix: Air Lab File ID: 37598-19.D
 Analysis Method: TO-15 Date Collected: 09/02/2019 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/04/2019 02:46
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 146883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHB.i\20190903-37598.b\37598-19.D
 Lims ID: 200-50375-A-7
 Client ID: 3151
 Sample Type: Client
 Inject. Date: 04-Sep-2019 02:46:30 ALS Bottle#: 20 Worklist Smp#: 19
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Sample Info: 200-0037598-019
 Misc. Info.: 50376-03
 Operator ID: ggg Instrument ID: CHB.i
 Method: \\chromna\Burlington\ChromData\CHB.i\20190903-37598.b\TO15_LLNJ_TO3.m
 Limit Group: AI_TO15_ICAL
 Last Update: 04-Sep-2019 14:44:25 Calib Date: 22-Aug-2019 12:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal/External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Burlington\ChromData\CHB.i\20190821-37429.b\37429-23.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX0335

First Level Reviewer: puangmaleek

Date: 04-Sep-2019 14:44:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.134				ND	
2 Dichlorodifluoromethane	85		3.193				ND	
3 Chlorodifluoromethane	51		3.225				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.407				ND	
5 Chloromethane	50		3.529				ND	
6 Butane	43		3.700				ND	U
7 Vinyl chloride	62		3.732				ND	
8 Butadiene	54		3.802				ND	
10 Bromomethane	94		4.453				ND	
11 Chloroethane	64		4.682				ND	
13 Vinyl bromide	106		5.082				ND	
14 Trichlorofluoromethane	101		5.189				ND	
16 Ethanol	45		5.627				ND	
19 1,1,2-Trichloro-1,2,2-trif	101		6.208				ND	
20 1,1-Dichloroethene	96		6.278				ND	
21 Acetone	43		6.417				ND	
22 Isopropyl alcohol	45		6.635				ND	
23 Carbon disulfide	76		6.705				ND	
24 3-Chloro-1-propene	41		6.972				ND	
27 Methylene Chloride	49		7.228				ND	
28 2-Methyl-2-propanol	59		7.329				ND	
29 Methyl tert-butyl ether	73		7.575				ND	
30 trans-1,2-Dichloroethene	61		7.639				ND	
32 Hexane	57	7.980	7.975	0.005	66	4688	0.1246	
33 1,1-Dichloroethane	63		8.375				ND	
34 Vinyl acetate	43		8.381				ND	
36 2-Butanone (MEK)	72		9.261				ND	
37 cis-1,2-Dichloroethene	96		9.283				ND	
35 Ethyl acetate	88		9.283				ND	
* 39 Chlorobromomethane	128	9.640	9.640	0.000	99	128248	10.0	
38 Tetrahydrofuran	42		9.656				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
40 Chloroform	83		9.720				ND	
42 1,1,1-Trichloroethane	97		9.982				ND	
43 Cyclohexane	84		9.998				ND	
S 41 1,2-Dichloroethene, Total	61		10.000				ND	
44 Carbon tetrachloride	117		10.190				ND	
45 Isooctane	57		10.478				ND	
46 Benzene	78		10.510				ND	
47 1,2-Dichloroethane	62		10.601				ND	
48 n-Heptane	43		10.729				ND	
* 50 1,4-Difluorobenzene	114	11.044	11.049	-0.005	95	634688	10.0	
53 Trichloroethene	95		11.423				ND	
54 1,2-Dichloropropane	63		11.786				ND	
55 Methyl methacrylate	69		11.823				ND	
56 1,4-Dioxane	88		11.914				ND	
57 Dibromomethane	174		11.972				ND	
58 Dichlorobromomethane	83		12.148				ND	
60 cis-1,3-Dichloropropene	75		12.773				ND	
61 4-Methyl-2-pentanone (MIBK)	43		12.917				ND	
64 Toluene	92		13.205				ND	U
66 trans-1,3-Dichloropropene	75		13.563				ND	
67 1,1,2-Trichloroethane	83		13.830				ND	
68 Tetrachloroethene	166		13.984				ND	
69 2-Hexanone	43		14.091				ND	
70 Chlorodibromomethane	129		14.390				ND	
71 Ethylene Dibromide	107		14.593				ND	
* 72 Chlorobenzene-d5	117	15.159	15.158	0.001	88	561312	10.0	
73 Chlorobenzene	112		15.201				ND	
74 Ethylbenzene	91		15.271				ND	
76 m-Xylene & p-Xylene	106		15.420				ND	U
78 o-Xylene	106		15.932				ND	
79 Styrene	104		15.954				ND	
S 77 Xylenes, Total	106		16.000				ND	
80 Bromoform	173		16.247				ND	
81 Isopropylbenzene	105		16.343				ND	
83 1,1,2,2-Tetrachloroethane	83		16.749				ND	
84 N-Propylbenzene	91		16.824				ND	
87 4-Ethyltoluene	105		16.952				ND	
88 2-Chlorotoluene	91		16.989				ND	
89 1,3,5-Trimethylbenzene	105		17.016				ND	
91 tert-Butylbenzene	119		17.389				ND	
92 1,2,4-Trimethylbenzene	105		17.464				ND	
93 sec-Butylbenzene	105		17.645				ND	
94 4-Isopropyltoluene	119		17.800				ND	
95 1,3-Dichlorobenzene	146		17.875				ND	
96 1,4-Dichlorobenzene	146		17.987				ND	
97 Benzyl chloride	91		18.131				ND	
99 n-Butylbenzene	91		18.302				ND	
100 1,2-Dichlorobenzene	146		18.467				ND	
103 1,2,4-Trichlorobenzene	180		20.805				ND	
104 Hexachlorobutadiene	225		20.976				ND	
105 Naphthalene	128		21.280				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

ATTO15BISs_00007

Amount Added: 20.00

Units: mL

Run Reagent

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHB.i\20190903-37598.b\37598-19.D

Injection Date: 04-Sep-2019 02:46:30

Instrument ID: CHB.i

Operator ID: ggg

Lims ID: 200-50375-A-7

Lab Sample ID: 200-50375-7

Worklist Smp#: 19

Client ID: 3151

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

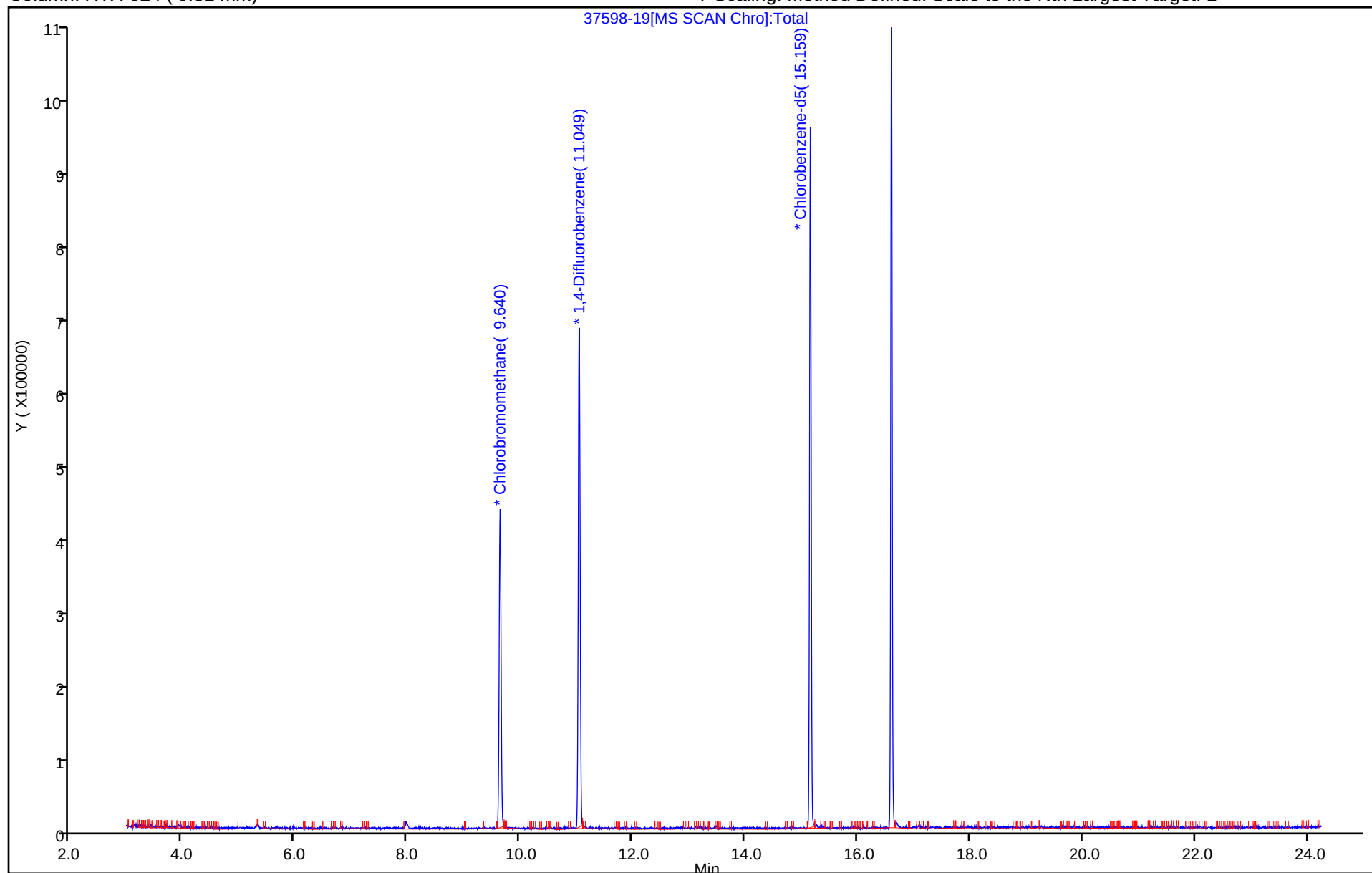
ALS Bottle#: 20

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHB.i\20190903-37598.b\37598-19.D

Injection Date: 04-Sep-2019 02:46:30

Instrument ID: CHB.i

Lims ID: 200-50375-A-7

Lab Sample ID: 200-50375-7

Client ID: 3151

Operator ID: ggg

ALS Bottle#:

20

Worklist Smp#: 19

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

Method: TO15_LLNJ_TO3

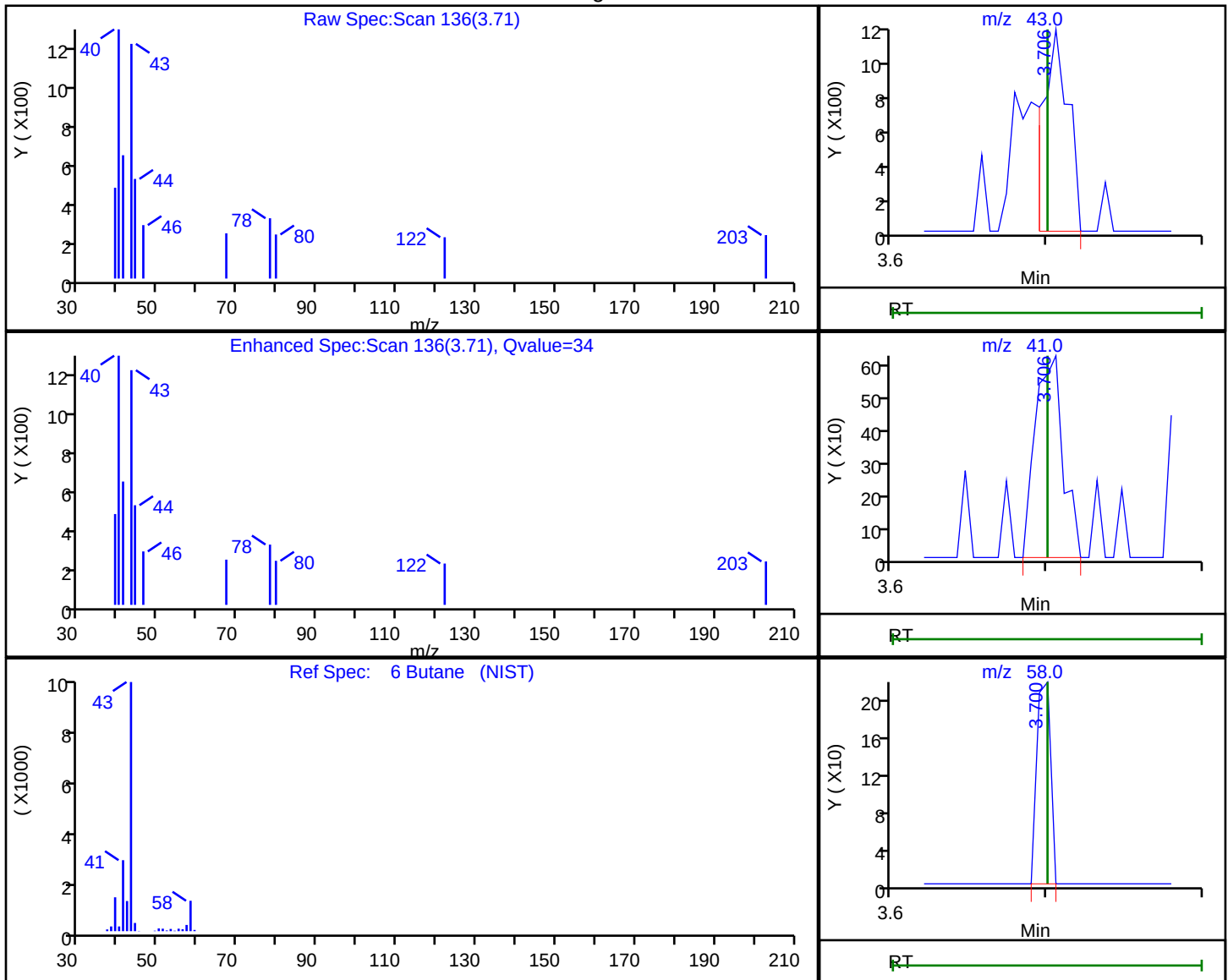
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

6 Butane, CAS: 106-97-8

Processing Results



RT	Mass	Response	Amount
3.71	43.00	1361	0.052540
3.71	41.00	785	
3.70	58.00	132	

Reviewer: puangmaleek, 04-Sep-2019 14:43:38

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHB.i\20190903-37598.b\37598-19.D

Injection Date: 04-Sep-2019 02:46:30

Instrument ID: CHB.i

Lims ID: 200-50375-A-7

Lab Sample ID: 200-50375-7

Client ID: 3151

Operator ID: ggg

ALS Bottle#:

20

Worklist Smp#: 19

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

Method: TO15_LLNI_TO3

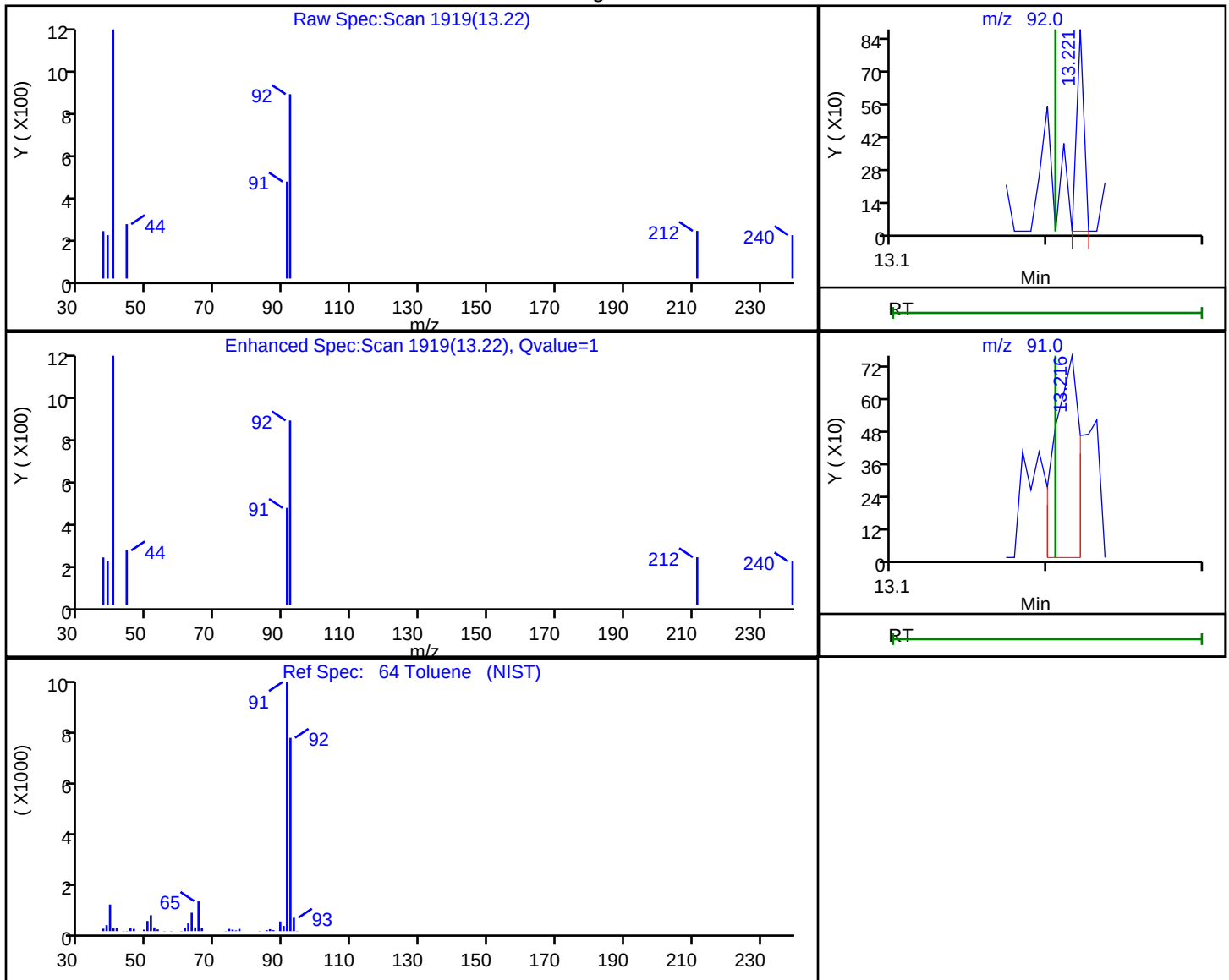
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector MS SCAN

64 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
13.22	92.00	279	0.006483
13.22	91.00	831	

Reviewer: puangmaleek, 04-Sep-2019 14:43:57

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHB.i\20190903-37598.b\37598-19.D

Injection Date: 04-Sep-2019 02:46:30

Instrument ID: CHB.i

Lims ID: 200-50375-A-7

Lab Sample ID: 200-50375-7

Client ID: 3151

Operator ID: ggg

ALS Bottle#: 20 Worklist Smp#: 19

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

Method: TO15_LLNJ_TO3

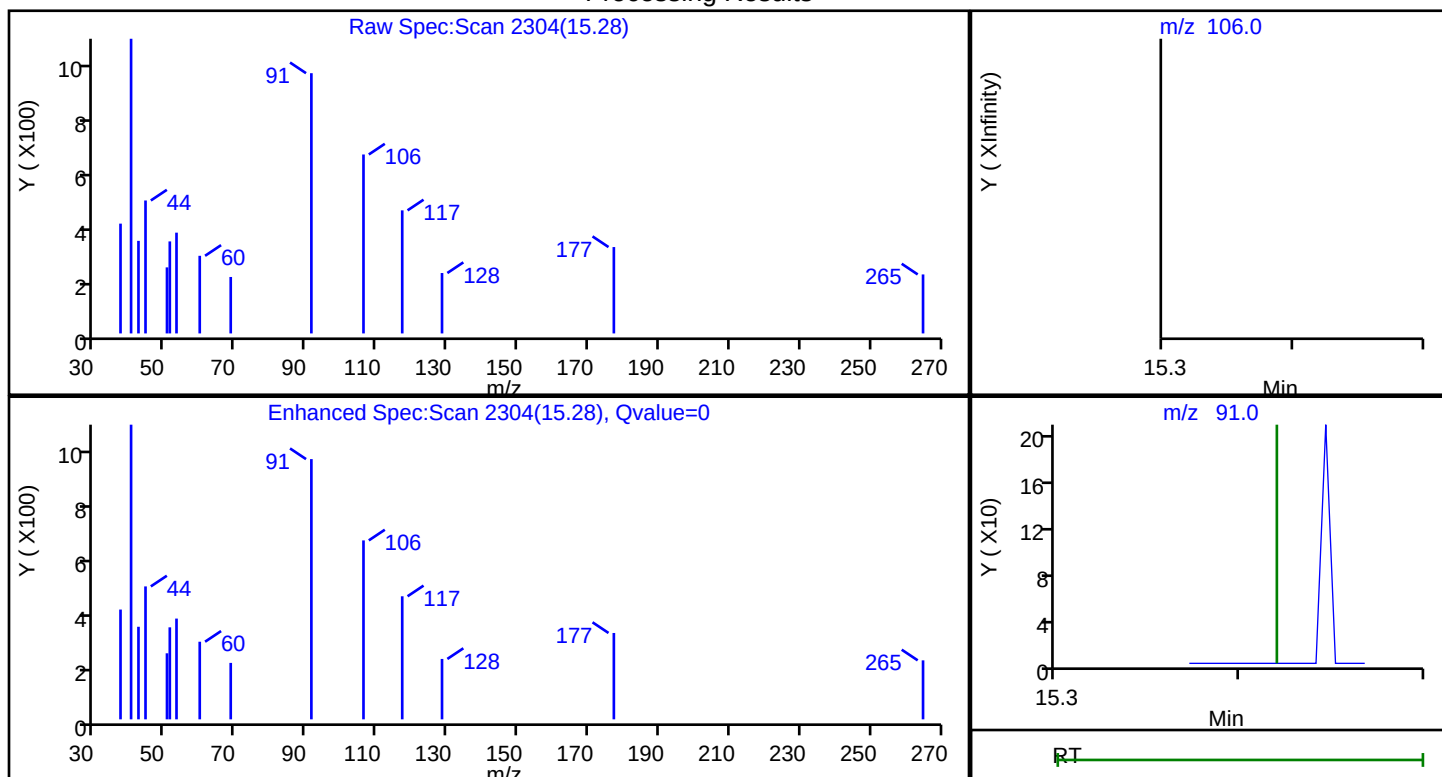
Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

76 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
15.28	106.00	439	0.011662
15.27	91.00	1856	

Reviewer: puangmaleek, 04-Sep-2019 14:44:07

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1 Analy Batch No.: 146515

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2019 20:08 Calibration End Date: 08/22/2019 11:01 Calibration ID: 42256

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-146515/5	37429-05.D
Level 2	IC 200-146515/6	37429-06.D
Level 3	IC 200-146515/7	37429-07.D
Level 4	ICIS 200-146515/8	37429-08.D
Level 5	IC 200-146515/22	37429-22.D
Level 6	IC 200-146515/13	37429-13.D
Level 7	IC 200-146515/12	37429-12.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Propylene	++++ 0.8270	++++ 0.9081	0.9462	0.9467	0.9463	Ave		0.9149				5.7		30.0			
Dichlorodifluoromethane	++++ 2.7830	3.5471 2.9871	3.0074	2.9490	3.1648	Ave		3.0731				8.5		30.0			
Freon 22	++++ 1.6951	2.2250 1.8683	1.8079	1.8479	1.9257	Ave		1.8950				9.4		30.0			
1,2-Dichlorotetrafluoroethane	3.5464 2.7050	3.3791 2.8124	2.8597	2.9108	2.9032	Ave		3.0167				10.5		30.0			
Chloromethane	++++ 0.9761	1.2318 1.0224	1.0296	1.0794	1.0730	Ave		1.0687				8.3		30.0			
n-Butane	++++ 1.8655	2.6940 1.8657	1.9595	1.9335	1.8009	Ave		2.0198				16.6		30.0			
Vinyl chloride	1.3362 1.1122	1.3440 1.1128	1.1545	1.1699	1.0440	Ave		1.1819				9.7		30.0			
1,3-Butadiene	1.1495 0.8749	1.0129 0.8945	0.8910	0.9065	0.8383	Ave		0.9382				11.5		30.0			
Bromomethane	1.2813 0.9725	1.3440 0.9343	1.0383	1.0551	0.8773	Ave		1.0718				16.4		30.0			
Chloroethane	++++ 0.5789	0.7294 0.5544	0.6364	0.6412	0.5157	Ave		0.6093				12.5		30.0			
Isopentane	3.2584 1.5747	2.1749 1.5923	1.7782	1.7512	1.4697	Ave		1.9428				32.1	*	30.0			
Bromoethene (Vinyl Bromide)	1.2844 0.9481	1.2051 0.8957	1.0574	1.0438	0.8214	Ave		1.0366				16.0		30.0			
Trichlorofluoromethane	4.0460 3.0109	3.8899 3.0178	3.2443	3.3031	2.8956	Ave		3.3439				13.5		30.0			
n-Pentane	++++ 2.4216	4.2390 2.3730	2.7125	2.7088	2.1438	Ave		2.7664				27.2		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1 Analy Batch No.: 146515

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2019 20:08 Calibration End Date: 08/22/2019 11:01 Calibration ID: 42256

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethanol	++++ 0.4742	0.5586 0.4613	0.5904	0.5244	0.4784	Ave		0.5145				10.1		30.0			
Ethyl ether	1.2373 0.8772	1.0907 0.9090	0.9941	0.9748	0.8641	Ave		0.9925				13.4		30.0			
Acrolein	++++ 0.4274	++++ 0.4811	0.5528	0.5588	0.4056	Ave		0.4851				14.5		30.0			
Freon TF	3.6912 2.5944	3.2431 2.6438	2.7496	2.7600	2.5501	Ave		2.8903				14.6		30.0			
1,1-Dichloroethene	1.8087 1.2411	1.6622 1.2616	1.3222	1.3312	1.2181	Ave		1.4064				16.5		30.0			
Acetone	++++ 2.3147	++++ 2.5774	2.8570	2.5478	2.6729	Ave		2.5940				7.6		30.0			
Isopropyl alcohol	++++ 2.3292	++++ 2.2388	2.6943	2.5672	2.5488	Ave		2.4757				7.5		30.0			
Carbon disulfide	++++ 3.6257	++++ 4.5891 3.7253	3.9032	3.9252	3.6277	Ave		3.8994				9.3		30.0			
3-Chloropropene	2.7219 2.0268	2.2663 1.8760	2.0955	2.0120	2.1329	Ave		2.1616				12.7		30.0			
Acetonitrile	++++ 1.2113	++++ 1.2028	1.4082	1.2733	1.1576	Ave		1.2506				7.8		30.0			
Methylene Chloride	2.5738 1.7005	2.3382 1.8096	1.8328	1.8569	1.7559	Ave		1.9811				16.9		30.0			
tert-Butyl alcohol	++++ 2.8573	++++ 2.8101	3.1938	3.0965	3.1034	Ave		3.0122				5.6		30.0			
Methyl tert-butyl ether	5.0597 3.9311	5.0102 4.1055	4.2082	4.1662	4.0981	Ave		4.3684				10.6		30.0			
trans-1,2-Dichloroethene	2.6836 2.0430	2.4876 2.1409	2.1781	2.1421	2.1469	Ave		2.2603				10.3		30.0			
Acrylonitrile	++++ 1.0108	1.2699 1.0862	1.0536	1.1167	1.0480	Ave		1.0975				8.4		30.0			
n-Hexane	5.3042 2.2100	3.5770 2.3253	2.4255	2.4483	2.2499	Ave		2.9343				39.1	*	30.0			
1,1-Dichloroethane	3.4825 2.5426	3.3361 2.6813	2.6923	2.7999	2.6721	Ave		2.8867				12.7		30.0			
Vinyl acetate	++++ 3.9376	++++ 4.4048	4.2003	4.3672	4.2940	Ave		4.2408				4.4		30.0			
Methyl Ethyl Ketone	++++ 0.7066	0.9814 0.7261	0.7492	0.7553	0.7201	Ave		0.7731				13.4		30.0			
cis-1,2-Dichloroethene	1.9298 1.3973	1.7119 1.4392	1.4592	1.5120	1.4229	Ave		1.5532				12.7		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1 Analy Batch No.: 146515

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2019 20:08 Calibration End Date: 08/22/2019 11:01 Calibration ID: 42256

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	++++ 0.1224	++++ 0.1163	0.1262	0.1216	0.1155	Ave		0.1204				3.7		30.0			
Tetrahydrofuran	++++ 0.3691	++++ 0.4026	0.3818	0.4026	0.3845	Ave		0.3881				3.7		30.0			
Chloroform	4.1017 2.9262	3.7228 3.1312	3.0786	3.1170	3.1085	Ave		3.3123				13.0		30.0			
1,1,1-Trichloroethane	0.8130 0.6278	0.7246 0.6796	0.6369	0.6698	0.6781	Ave		0.6900				9.1		30.0			
Cyclohexane	0.4831 0.3620	0.4334 0.3820	0.3743	0.3993	0.3783	Ave		0.4018				10.6		30.0			
Carbon tetrachloride	0.7467 0.6441	0.7306 0.6966	0.5060	0.6870	0.6757	Ave		0.6695				11.9		30.0			
2,2,4-Trimethylpentane	1.8989 1.4632	1.8053 1.5568	1.5135	1.5931	1.4943	Ave		1.6179				10.4		30.0			
Benzene	1.1554 0.8656	1.0849 0.9128	0.8993	0.9439	0.8935	Ave		0.9651				11.4		30.0			
1,2-Dichloroethane	0.5241 0.4217	0.5075 0.4748	0.4275	0.4578	0.4865	Ave		0.4714				8.2		30.0			
n-Heptane	0.8249 0.6342	0.8298 0.6829	0.6619	0.6874	0.6737	Ave		0.7136				11.2		30.0			
n-Butanol	++++ 0.1667	++++ 0.1614	0.1920	0.1855	0.1804	Ave		0.1772				7.2		30.0			
Trichloroethene	0.4651 0.3795	0.5050 0.3956	0.3785	0.4130	0.3926	Ave		0.4185				11.5		30.0			
1,2-Dichloropropane	0.4097 0.3326	0.4245 0.3564	0.3403	0.3578	0.3454	Ave		0.3667				9.8		30.0			
Methyl methacrylate	++++ 0.3248	0.3814 0.3449	0.3199	0.3454	0.3381	Ave		0.3424				6.4		30.0			
1,4-Dioxane	++++ 0.1608	++++ 0.1548	0.1790	0.1812	0.1712	Ave		0.1694				6.7		30.0			
Dibromomethane	0.4712 0.3962	0.4887 0.4134	0.3872	0.4291	0.3735	Ave		0.4228				10.2		30.0			
Bromodichloromethane	0.7734 0.6393	0.7683 0.7065	0.6471	0.6626	0.6894	Ave		0.6981				7.9		30.0			
cis-1,3-Dichloropropene	0.6336 0.5273	0.6039 0.5733	0.5256	0.5618	0.5514	Ave		0.5681				7.0		30.0			
methyl isobutyl ketone	++++ 0.8315	1.0745 0.9392	0.8883	0.9042	0.9255	Ave		0.9272				8.8		30.0			
n-Octane	1.1166 0.8888	1.0229 0.9821	0.9358	0.9689	0.9804	Ave		0.9851				7.3		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1 Analy Batch No.: 146515
SDG No.: _____
Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 08/21/2019 20:08 Calibration End Date: 08/22/2019 11:01 Calibration ID: 42256

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toluene	0.8955 0.6953	0.8722 0.7286	0.7122	0.7616	0.7011	Ave		0.7667				10.9		30.0			
trans-1,3-Dichloropropene	0.5913 0.4875	0.5628 0.5304	0.4912	0.5236	0.5322	Ave		0.5313				6.9		30.0			
1,1,2-Trichloroethane	0.4255 0.3334	0.4184 0.3515	0.3419	0.3515	0.3415	Ave		0.3662				10.5		30.0			
Tetrachloroethene	0.8123 0.6572	0.7756 0.6775	0.6608	0.7040	0.6191	Ave		0.7009				9.9		30.0			
Methyl Butyl Ketone (2-Hexanone)	++++ 0.8788	1.5418 0.9773	0.9190	0.9578	0.9605	Ave		1.0392				23.9		30.0			
Dibromochloromethane	0.8598 0.7046	0.8605 0.7387	0.7263	0.6552	0.7138	Ave		0.7513				10.5		30.0			
1,2-Dibromoethane	0.7860 0.6108	0.7112 0.6545	0.6233	0.6496	0.6083	Ave		0.6634				9.7		30.0			
Chlorobenzene	1.1313 0.9338	1.1565 0.9809	0.9799	1.0111	0.9386	Ave		1.0189				8.8		30.0			
Ethylbenzene	2.2107 1.5686	1.9829 1.6817	1.6235	1.7032	1.6217	Ave		1.7703				13.4		30.0			
n-Nonane	1.0409 0.8029	0.9916 0.8665	0.8387	0.8838	0.8398	Ave		0.8949				9.8		30.0			
m,p-Xylene	0.7513 0.6234	0.7213 0.6679	0.6316	0.6652	0.6339	Ave		0.6706				7.3		30.0			
Xylene, o-	0.8228 0.5962	0.7405 0.6424	0.6085	0.6416	0.6144	Ave		0.6666				12.6		30.0			
Styrene	1.3133 0.9887	1.1969 1.0538	1.0032	1.0614	1.0211	Ave		1.0912				11.0		30.0			
Bromoform	0.8453 0.7128	0.8096 0.6847	0.7731	0.3892	0.7040	Ave		0.7027				21.4		30.0			
Cumene	2.1390 1.7659	2.0727 1.8886	1.8012	1.8902	1.8500	Ave		1.9154				7.3		30.0			
1,1,2,2-Tetrachloroethane	1.1801 0.8655	1.1162 0.9522	0.8854	0.9167	0.9103	Ave		0.9752				12.6		30.0			
n-Propylbenzene	2.6898 2.1480	2.5324 2.2717	2.1649	2.3022	2.2831	Ave		2.3417				8.5		30.0			
1,2,3-Trichloropropane	1.0429 0.7521	0.9496 0.8010	0.7642	0.8161	0.8143	Ave		0.8486				12.6		30.0			
n-Decane	1.3267 1.0150	1.2502 1.0478	1.0810	1.1386	1.1101	Ave		1.1385				9.9		30.0			
4-Ethyltoluene	2.2882 1.7486	2.1736 1.7765	1.7762	1.8938	1.8256	Ave		1.9261				11.2		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1 Analy Batch No.: 146515

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2019 20:08 Calibration End Date: 08/22/2019 11:01 Calibration ID: 42256

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	1.9483 1.4624	1.8021 1.5520	1.4783	1.5750	1.5897	Ave		1.6297				11.0		30.0			
1,3,5-Trimethylbenzene	1.8818 1.4520	1.7645 1.4647	1.5070	1.5998	1.5440	Ave		1.6020				10.1		30.0			
Alpha Methyl Styrene	1.0803 0.7816	0.8999 0.7903	0.7891	0.8507	0.8349	Ave		0.8610				12.3		30.0			
tert-Butylbenzene	1.6899 1.3816	1.7357 1.4380	1.4200	1.5184	1.4811	Ave		1.5235				9.0		30.0			
1,2,4-Trimethylbenzene	1.8211 1.4243	1.6912 1.4909	1.4893	1.5867	1.5815	Ave		1.5835				8.6		30.0			
sec-Butylbenzene	2.6432 2.0829	2.6221 2.2392	2.1825	2.3174	2.3426	Ave		2.3471				9.1		30.0			
4-Isopropyltoluene	2.1753 1.7061	2.1061 1.9475	1.8765	1.9831	1.9761	Ave		1.9673				7.8		30.0			
1,3-Dichlorobenzene	1.4243 1.0475	1.2939 1.0978	1.0736	1.1626	1.1352	Ave		1.1764				11.5		30.0			
1,4-Dichlorobenzene	1.3437 1.0414	1.3042 1.1155	1.0825	1.1706	1.1342	Ave		1.1703				9.7		30.0			
Benzyl chloride	1.5076 1.2132	1.3749 1.3485	1.2603	1.4323	1.4108	Ave		1.3639				7.4		30.0			
n-Undecane	++++ 1.1224	++++ 1.1290	1.2016	1.2180	1.2349	Ave		1.1812				4.4		30.0			
n-Butylbenzene	2.2143 1.5802	2.1165 1.8883	1.7735	1.8969	1.9091	Ave		1.9113				11.0		30.0			
1,2-Dichlorobenzene	1.3626 0.9612	1.2591 1.0771	1.0330	1.1111	1.0930	Ave		1.1282				12.2		30.0			
n-Dodecane	1.0961 0.9839	1.0806 ++++	1.0659	1.1768	1.1404	Ave		1.0906				6.1		30.0			
1,2,4-Trichlorobenzene	++++ 0.9697	1.1049 0.9014	0.9018	1.0199	0.9579	Ave		0.9759				7.9		30.0			
Hexachlorobutadiene	1.1630 1.0052	1.1014 1.0427	0.9302	1.0260	1.0294	Ave		1.0426				7.1		30.0			
Naphthalene	++++ 1.7886	2.4593 1.3979	1.7325	1.9492	1.8046	Ave		1.8554				18.7		30.0			
1,2,3-Trichlorobenzene	++++ 0.8413	0.9466 0.7424	0.7848	0.9258	0.8500	Ave		0.8485				9.3		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1 Analy Batch No.: 146515

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2019 20:08 Calibration End Date: 08/22/2019 11:01 Calibration ID: 42256

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-146515/5	37429-05.D
Level 2	IC 200-146515/6	37429-06.D
Level 3	IC 200-146515/7	37429-07.D
Level 4	ICIS 200-146515/8	37429-08.D
Level 5	IC 200-146515/22	37429-22.D
Level 6	IC 200-146515/13	37429-13.D
Level 7	IC 200-146515/12	37429-12.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Propylene	BCM	Ave	++++ 274474	++++ 465865	76237	144910	125219	++++ 20.0	++++ 40.0	4.99	10.00	13.3
Dichlorodifluoromethane	BCM	Ave	++++ 923659	29963 1532397	242323	451404	418769	++++ 20.0	0.500 40.0	4.99	10.00	13.3
Freon 22	BCM	Ave	++++ 562597	18795 958444	145671	282851	254815	++++ 20.0	0.500 40.0	4.99	10.00	13.3
1,2-Dichlorotetrafluoroethane	BCM	Ave	12594 897779	28544 1442794	230425	445557	384159	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Chloromethane	BCM	Ave	++++ 323974	10405 524514	82959	165218	141988	++++ 20.0	0.500 40.0	4.99	10.00	13.3
n-Butane	BCM	Ave	++++ 619136	22757 957144	157886	295956	238294	++++ 20.0	0.500 40.0	4.99	10.00	13.3
Vinyl chloride	BCM	Ave	4745 369128	11353 570895	93024	179073	138149	0.200 20.0	0.500 40.0	4.99	10.00	13.3
1,3-Butadiene	BCM	Ave	4082 290367	8556 458895	71796	138764	110920	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Bromomethane	BCM	Ave	4550 322767	11353 479327	83661	161510	116088	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Chloroethane	BCM	Ave	++++ 192133	6161 284387	51280	98151	68239	++++ 20.0	0.500 40.0	4.99	10.00	13.3
Isopentane	BCM	Ave	11571 522628	18372 816882	143283	268052	194472	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Bromoethene (Vinyl Bromide)	BCM	Ave	4561 314660	10180 459510	85205	159773	108693	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Trichlorofluoromethane	BCM	Ave	14368 999286	32859 1548151	261413	505604	383150	0.200 20.0	0.500 40.0	4.99	10.00	13.3
n-Pentane	BCM	Ave	++++ 803713	35808 1217351	218561	414633	283668	++++ 20.0	0.500 40.0	4.99	10.00	13.3
Ethanol	BCM	Ave	++++ 314831	47240 591640	95209	120448	126616	++++ 40.0	5.01 100.0	9.99	15.0	26.6

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1 Analy Batch No.: 146515

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2019 20:08 Calibration End Date: 08/22/2019 11:01 Calibration ID: 42256

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Ethyl ether	BCM	Ave	4394 291122	9213 466325	80103	149204	114342	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Acrolein	BCM	Ave	++++ 141864	++++ 246811	44544	85528	53667	++++ 20.0	++++ 40.0	4.99	10.00	13.3
Freon TF	BCM	Ave	13108 861067	27395 1356292	221549	422462	337431	0.200 20.0	0.500 40.0	4.99	10.00	13.3
1,1-Dichloroethene	BCM	Ave	6423 411916	14041 647226	106539	203758	161181	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Acetone	BCM	Ave	++++ 768218	++++ 1322248	230203	389984	353687	++++ 20.0	++++ 40.0	4.99	10.00	13.3
Isopropyl alcohol	BCM	Ave	++++ 773045	++++ 1148544	217095	392958	337264	++++ 20.0	++++ 40.0	4.99	10.00	13.3
Carbon disulfide	BCM	Ave	++++ 1203357	38765 1911105	314502	600820	480028	++++ 20.0	0.500 40.0	4.99	10.00	13.3
3-Chloropropene	BCM	Ave	9666 672696	19144 962421	168843	307973	282229	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Acetonitrile	BCM	Ave	++++ 402037	++++ 617031	113469	194903	153172	++++ 20.0	++++ 40.0	4.99	10.00	13.3
Methylene Chloride	BCM	Ave	9140 564383	19751 928364	147678	284240	232345	0.200 20.0	0.500 40.0	4.99	10.00	13.3
tert-Butyl alcohol	BCM	Ave	++++ 948328	++++ 1441597	257345	473970	410645	++++ 20.0	++++ 40.0	4.99	10.00	13.3
Methyl tert-butyl ether	BCM	Ave	17968 1304720	42322 2106181	339082	637706	542269	0.200 20.0	0.500 40.0	4.99	10.00	13.3
trans-1,2-Dichloroethene	BCM	Ave	9530 678066	21013 1098313	175504	327880	284081	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Acrylonitrile	BCM	Ave	++++ 335474	10727 557233	84897	170927	138677	++++ 20.0	0.500 40.0	4.99	10.00	13.3
n-Hexane	BCM	Ave	18836 733495	30216 1192915	195441	374759	297718	0.200 20.0	0.500 40.0	4.99	10.00	13.3
1,1-Dichloroethane	BCM	Ave	12367 843859	28181 1375550	216938	428578	353584	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Vinyl acetate	BCM	Ave	++++ 1306866	++++ 2259720	338440	668481	568190	++++ 20.0	++++ 40.0	4.99	10.00	13.3
Methyl Ethyl Ketone	BCM	Ave	++++ 234526	8290 372490	60365	115606	95288	++++ 20.0	0.500 40.0	4.99	10.00	13.3
cis-1,2-Dichloroethene	BCM	Ave	6853 463739	14461 738300	117579	231434	188277	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Ethyl acetate	BCM	Ave	++++ 40630	++++ 59683	10167	18615	15283	++++ 20.0	++++ 40.0	4.99	10.00	13.3
Tetrahydrofuran	DFBZ	Ave	++++ 613546	++++ 1034431	158826	310012	261330	++++ 20.0	++++ 40.0	4.99	10.00	13.3

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1 Analy Batch No.: 146515

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2019 20:08 Calibration End Date: 08/22/2019 11:01 Calibration ID: 42256

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chloroform	BCM	Ave	14566 971194	31447 1606331	248064	477112	411328	0.200 20.0	0.500 40.0	4.99	10.00	13.3
1,1,1-Trichloroethane	DFBZ	Ave	14959 1043690	31249 1746134	264928	515787	460865	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Cyclohexane	DFBZ	Ave	8889 601857	18689 981458	155695	307452	257080	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Carbon tetrachloride	DFBZ	Ave	13739 1070744	31506 1789731	210492	528994	459267	0.200 20.0	0.500 40.0	4.99	10.00	13.3
2,2,4-Trimethylpentane	DFBZ	Ave	34938 2432583	77854 3999731	629586	1226762	1015604	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Benzene	DFBZ	Ave	21259 1439039	46785 2345174	374079	726861	607285	0.200 20.0	0.500 40.0	4.99	10.00	13.3
1,2-Dichloroethane	DFBZ	Ave	9644 701012	21886 1219827	177844	352549	330662	0.200 20.0	0.500 40.0	4.99	10.00	13.3
n-Heptane	DFBZ	Ave	15177 1054301	35787 1754637	275347	529355	457891	0.200 20.0	0.500 40.0	4.99	10.00	13.3
n-Butanol	DFBZ	Ave	++++ 277065	++++ 414707	79852	142873	122640	++++ 20.0	++++ 40.0	4.99	10.00	13.3
Trichloroethene	DFBZ	Ave	8558 630924	21780 1016440	157437	318010	266855	0.200 20.0	0.500 40.0	4.99	10.00	13.3
1,2-Dichloropropane	DFBZ	Ave	7538 552979	18307 915564	141553	275495	234757	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Methyl methacrylate	DFBZ	Ave	++++ 539970	16448 886162	133070	265987	229757	++++ 20.0	0.500 40.0	4.99	10.00	13.3
1,4-Dioxane	DFBZ	Ave	++++ 267358	++++ 397622	74468	139501	116384	++++ 20.0	++++ 40.0	4.99	10.00	13.3
Dibromomethane	DFBZ	Ave	8670 658653	21074 1062175	161078	330444	253832	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Bromodichloromethane	DFBZ	Ave	14230 1062749	33133 1815243	269168	510205	468525	0.200 20.0	0.500 40.0	4.99	10.00	13.3
cis-1,3-Dichloropropene	DFBZ	Ave	11658 876596	26045 1472912	218624	432640	374749	0.200 20.0	0.500 40.0	4.99	10.00	13.3
methyl isobutyl ketone	DFBZ	Ave	++++ 1382394	46340 2413099	369539	696278	629037	++++ 20.0	0.500 40.0	4.99	10.00	13.3
n-Octane	DFBZ	Ave	20545 1477551	44111 2523388	389257	746121	666310	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Toluene	CBNZ d5	Ave	14548 1042995	33169 1738090	265147	524545	444240	0.200 20.0	0.500 40.0	4.99	10.00	13.3
trans-1,3-Dichloropropene	DFBZ	Ave	10879 810424	24272 1362749	204343	403175	361726	0.200 20.0	0.500 40.0	4.99	10.00	13.3
1,1,2-Trichloroethane	CBNZ d5	Ave	6912 500129	15909 838445	127277	242104	216410	0.200 20.0	0.500 40.0	4.99	10.00	13.3

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1 Analy Batch No.: 146515

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2019 20:08 Calibration End Date: 08/22/2019 11:01 Calibration ID: 42256

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Tetrachloroethene	CBNZ d5	Ave	13196 985931	29495 1616147	245994	484848	392259	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Methyl Butyl Ketone (2-Hexanone)	CBNZ d5	Ave	++++ 1318349	58631 2331401	342111	659661	608607	++++ 20.0	0.500 40.0	4.99	10.00	13.3
Dibromochloromethane	CBNZ d5	Ave	13968 1056945	32722 1762053	270396	451254	452267	0.200 20.0	0.500 40.0	4.99	10.00	13.3
1,2-Dibromoethane	CBNZ d5	Ave	12769 916211	27044 1561331	232057	447383	385423	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Chlorobenzene	CBNZ d5	Ave	18378 1400764	43980 2339866	364803	696396	594718	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Ethylbenzene	CBNZ d5	Ave	35913 2353167	75403 4011719	604394	1173034	1027603	0.200 20.0	0.500 40.0	4.99	10.00	13.3
n-Nonane	CBNZ d5	Ave	16910 1204493	37707 2067053	312218	608700	532143	0.200 20.0	0.500 40.0	4.99	10.00	13.3
m,p-Xylene	CBNZ d5	Ave	24408 1870227	54855 3186339	470269	916228	803275	0.401 40.0	1.00 80.0	9.99	20.0	26.6
Xylene, o-	CBNZ d5	Ave	13367 894352	28160 1532543	226516	441873	389316	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Styrene	CBNZ d5	Ave	21334 1483123	45514 2513742	373466	731045	647033	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Bromoform	CBNZ d5	Ave	13731 1069357	30788 1633319	287801	268045	446080	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Cumene	CBNZ d5	Ave	34747 2649122	78820 4505187	670548	1301817	1172214	0.200 20.0	0.500 40.0	4.99	10.00	13.3
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	19170 1298356	42445 2271362	329611	631359	576838	0.200 20.0	0.500 40.0	4.99	10.00	13.3
n-Propylbenzene	CBNZ d5	Ave	43696 3222224	96301 5419056	805926	1585583	1446691	0.200 20.0	0.500 40.0	4.99	10.00	13.3
1,2,3-Trichloropropane	CBNZ d5	Ave	16941 1128260	36109 1910741	284475	562038	515946	0.200 20.0	0.500 40.0	4.99	10.00	13.3
n-Decane	CBNZ d5	Ave	21552 1522688	47540 2499541	402417	784182	703390	0.200 20.0	0.500 40.0	4.99	10.00	13.3
4-Ethyltoluene	CBNZ d5	Ave	37171 2623175	82658 4237887	661220	1304298	1156770	0.200 20.0	0.500 40.0	4.99	10.00	13.3
2-Chlorotoluene	CBNZ d5	Ave	31650 2193830	68529 3702363	550338	1084742	1007280	0.200 20.0	0.500 40.0	4.99	10.00	13.3
1,3,5-Trimethylbenzene	CBNZ d5	Ave	30570 2178192	67098 3494048	561016	1101812	978361	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Alpha Methyl Styrene	CBNZ d5	Ave	17550 1172472	34220 1885193	293770	585879	529029	0.200 20.0	0.500 40.0	4.99	10.00	13.3
tert-Butylbenzene	CBNZ d5	Ave	27453 2072513	66005 3430394	528629	1045762	938487	0.200 20.0	0.500 40.0	4.99	10.00	13.3

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1 Analy Batch No.: 146515

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2019 20:08 Calibration End Date: 08/22/2019 11:01 Calibration ID: 42256

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBNZ d5	Ave	29583 2136635	64310 3556402	554418	1092804	1002104	0.200 20.0	0.500 40.0	4.99	10.00	13.3
sec-Butylbenzene	CBNZ d5	Ave	42938 3124695	99712 5341663	812502	1596066	1484384	0.200 20.0	0.500 40.0	4.99	10.00	13.3
4-Isopropyltoluene	CBNZ d5	Ave	35338 2559383	80090 4645845	698567	1365853	1252137	0.200 20.0	0.500 40.0	4.99	10.00	13.3
1,3-Dichlorobenzene	CBNZ d5	Ave	23138 1571394	49204 2618816	399680	800750	719327	0.200 20.0	0.500 40.0	4.99	10.00	13.3
1,4-Dichlorobenzene	CBNZ d5	Ave	21829 1562303	49594 2661054	402976	806259	718695	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Benzyl chloride	CBNZ d5	Ave	24491 1820005	52284 3216711	469189	986457	893941	0.200 20.0	0.500 40.0	4.99	10.00	13.3
n-Undecane	CBNZ d5	Ave	++++ 1683761	++++ 2693173	447324	838890	782465	++++ 20.0	++++ 40.0	4.99	10.00	13.3
n-Butylbenzene	CBNZ d5	Ave	35971 2370580	80485 4504605	660222	1306467	1209709	0.200 20.0	0.500 40.0	4.99	10.00	13.3
1,2-Dichlorobenzene	CBNZ d5	Ave	22135 1441911	47881 2569444	384567	765270	692546	0.200 20.0	0.500 40.0	4.99	10.00	13.3
n-Dodecane	CBNZ d5	Ave	17806 1475949	41093 ++++	396810	810491	722586	0.200 20.0	0.500 ++++	4.99	10.00	13.3
1,2,4-Trichlorobenzene	CBNZ d5	Ave	++++ 1454648	42017 2150162	335712	702447	606943	++++ 20.0	0.500 40.0	4.99	10.00	13.3
Hexachlorobutadiene	CBNZ d5	Ave	18892 1507985	41884 2487401	346281	706629	652251	0.200 20.0	0.500 40.0	4.99	10.00	13.3
Naphthalene	CBNZ d5	Ave	++++ 2683195	93522 3334749	644972	1342441	1143499	++++ 20.0	0.500 40.0	4.99	10.00	13.3
1,2,3-Trichlorobenzene	CBNZ d5	Ave	++++ 1262023	35995 1771037	292152	637595	538584	++++ 20.0	0.500 40.0	4.99	10.00	13.3

Curve Type Legend:

Ave = Average ISTD

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
 SDG No.: _____
 Lab Sample ID: ICV 200-146515/24 Calibration Date: 08/22/2019 13:12
 Instrument ID: CHB.i Calib Start Date: 08/21/2019 20:08
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/22/2019 11:01
 Lab File ID: 37429-24.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.9149	0.9592		10.5	10.0	4.9	30.0
Dichlorodifluoromethane	Ave	3.073	3.248		10.6	10.0	5.7	30.0
Freon 22	Ave	1.895	1.990		10.5	10.0	5.0	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.017	3.018		10.0	10.0	0.0	30.0
Chloromethane	Ave	1.069	1.108		10.4	10.0	3.7	30.0
n-Butane	Ave	2.020	1.909		9.45	10.0	-5.5	30.0
Vinyl chloride	Ave	1.182	1.133		9.58	10.0	-4.2	30.0
1,3-Butadiene	Ave	0.9382	0.9093		9.69	10.0	-3.1	30.0
Bromomethane	Ave	1.072	0.9608		8.96	10.0	-10.4	30.0
Chloroethane	Ave	0.6093	0.5688		9.33	10.0	-6.7	30.0
Isopentane	Ave	1.943	1.610		8.29	10.0	-17.1	30.0
Bromoethene (Vinyl Bromide)	Ave	1.037	0.9218		8.89	10.0	-11.1	30.0
Trichlorofluoromethane	Ave	3.344	3.164		9.46	10.0	-5.4	30.0
n-Pentane	Ave	2.766	2.291		8.28	10.0	-17.2	30.0
Ethanol	Ave	0.5145	0.4281		12.5	15.0	-16.8	30.0
Ethyl ether	Ave	0.9925	0.9528		9.60	10.0	-4.0	30.0
Acrolein	Ave	0.4851	0.5174		10.7	10.0	6.7	30.0
Freon TF	Ave	2.890	2.768		9.57	10.0	-4.2	30.0
1,1-Dichloroethene	Ave	1.406	1.317		9.36	10.0	-6.4	30.0
Acetone	Ave	2.594	2.784		10.7	10.0	7.3	30.0
Isopropyl alcohol	Ave	2.476	2.757		11.1	10.0	11.4	30.0
Carbon disulfide	Ave	3.899	3.845		9.86	10.0	-1.4	30.0
3-Chloropropene	Ave	2.162	2.112		9.77	10.0	-2.3	30.0
Acetonitrile	Ave	1.251	1.110		8.88	10.0	-11.2	30.0
Methylene Chloride	Ave	1.981	1.825		9.21	10.0	-7.9	30.0
tert-Butyl alcohol	Ave	3.012	3.245		10.8	10.0	7.7	30.0
Methyl tert-butyl ether	Ave	4.368	4.225		9.67	10.0	-3.3	30.0
trans-1,2-Dichloroethene	Ave	2.260	2.160		9.55	10.0	-4.4	30.0
Acrylonitrile	Ave	1.098	1.091		9.94	10.0	-0.6	30.0
n-Hexane	Ave	2.934	2.332		7.95	10.0	-20.5	30.0
1,1-Dichloroethane	Ave	2.887	2.816		9.75	10.0	-2.5	30.0
Vinyl acetate	Ave	4.241	4.592		10.8	10.0	8.3	30.0
Methyl Ethyl Ketone	Ave	0.7731	0.7907		10.2	10.0	2.3	30.0
cis-1,2-Dichloroethene	Ave	1.553	1.491		9.60	10.0	-4.0	30.0
Ethyl acetate	Ave	0.1204	0.1257		10.4	10.0	4.4	30.0
Tetrahydrofuran	Ave	0.3881	0.3811		9.82	10.0	-1.8	30.0
Chloroform	Ave	3.312	3.235		9.76	10.0	-2.3	30.0
1,1,1-Trichloroethane	Ave	0.6900	0.6845		9.92	10.0	-0.8	30.0
Cyclohexane	Ave	0.4018	0.3714		9.24	10.0	-7.6	30.0
Carbon tetrachloride	Ave	0.6695	0.6866		10.3	10.0	2.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
 SDG No.: _____
 Lab Sample ID: ICV 200-146515/24 Calibration Date: 08/22/2019 13:12
 Instrument ID: CHB.i Calib Start Date: 08/21/2019 20:08
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/22/2019 11:01
 Lab File ID: 37429-24.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	1.618	1.501		9.28	10.0	-7.2	30.0
Benzene	Ave	0.9651	0.8983		9.31	10.0	-6.9	30.0
1,2-Dichloroethane	Ave	0.4714	0.4841		10.3	10.0	2.7	30.0
n-Heptane	Ave	0.7136	0.6717		9.41	10.0	-5.9	30.0
n-Butanol	Ave	0.1772	0.1806		10.2	10.0	1.9	30.0
Trichloroethene	Ave	0.4185	0.3962		9.47	10.0	-5.3	30.0
1,2-Dichloropropane	Ave	0.3667	0.3419		9.32	10.0	-6.8	30.0
Methyl methacrylate	Ave	0.3424	0.3354		9.79	10.0	-2.0	30.0
1,4-Dioxane	Ave	0.1694	0.1758		10.4	10.0	3.8	30.0
Dibromomethane	Ave	0.4228	0.3705		8.76	10.0	-12.4	30.0
Bromodichloromethane	Ave	0.6981	0.7074		10.1	10.0	1.3	30.0
cis-1,3-Dichloropropene	Ave	0.5681	0.5555		9.78	10.0	-2.2	30.0
methyl isobutyl ketone	Ave	0.9272	0.9176		9.89	10.0	-1.0	30.0
n-Octane	Ave	0.9851	0.9631		9.77	10.0	-2.2	30.0
Toluene	Ave	0.7667	0.7285		9.50	10.0	-5.0	30.0
trans-1,3-Dichloropropene	Ave	0.5313	0.5350		10.1	10.0	0.7	30.0
1,1,2-Trichloroethane	Ave	0.3662	0.3473		9.48	10.0	-5.2	30.0
Tetrachloroethene	Ave	0.7009	0.6366		9.08	10.0	-9.2	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	1.039	0.9907		9.53	10.0	-4.7	30.0
Dibromochloromethane	Ave	0.7513	0.7730		10.3	10.0	2.9	30.0
1,2-Dibromoethane	Ave	0.6634	0.6342		9.56	10.0	-4.4	30.0
Chlorobenzene	Ave	1.019	0.9744		9.56	10.0	-4.4	30.0
Ethylbenzene	Ave	1.770	1.677		9.47	10.0	-5.3	30.0
n-Nonane	Ave	0.8949	0.8734		9.76	10.0	-2.4	30.0
m,p-Xylene	Ave	0.6706	0.6586		19.6	20.0	-1.8	30.0
Xylene, o-	Ave	0.6666	0.6364		9.54	10.0	-4.5	30.0
Styrene	Ave	1.091	1.051		9.63	10.0	-3.7	30.0
Bromoform	Ave	0.7027	0.8229		11.7	10.0	17.1	30.0
Cumene	Ave	1.915	1.885		9.84	10.0	-1.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9752	0.9190		9.42	10.0	-5.8	30.0
n-Propylbenzene	Ave	2.342	2.328		9.94	10.0	-0.6	30.0
1,2,3-Trichloropropane	Ave	0.8486	0.8286		9.76	10.0	-2.3	30.0
n-Decane	Ave	1.138	1.140		10.0	10.0	0.2	30.0
4-Ethyltoluene	Ave	1.926	1.884		9.78	10.0	-2.2	30.0
2-Chlorotoluene	Ave	1.630	1.604		9.84	10.0	-1.6	30.0
1,3,5-Trimethylbenzene	Ave	1.602	1.626		10.1	10.0	1.5	30.0
Alpha Methyl Styrene	Ave	0.8610	0.8744		10.2	10.0	1.6	30.0
tert-Butylbenzene	Ave	1.524	1.548		10.2	10.0	1.6	30.0
1,2,4-Trimethylbenzene	Ave	1.584	1.642		10.4	10.0	3.7	30.0
sec-Butylbenzene	Ave	2.347	2.407		10.3	10.0	2.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
 SDG No.: _____
 Lab Sample ID: ICV 200-146515/24 Calibration Date: 08/22/2019 13:12
 Instrument ID: CHB.i Calib Start Date: 08/21/2019 20:08
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/22/2019 11:01
 Lab File ID: 37429-24.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.967	2.050		10.4	10.0	4.2	30.0
1,3-Dichlorobenzene	Ave	1.176	1.185		10.1	10.0	0.7	30.0
1,4-Dichlorobenzene	Ave	1.170	1.175		10.0	10.0	0.4	30.0
Benzyl chloride	Ave	1.364	1.523		11.2	10.0	11.7	30.0
n-Undecane	Ave	1.181	1.283		10.9	10.0	8.6	30.0
n-Butylbenzene	Ave	1.911	2.015		10.5	10.0	5.4	30.0
1,2-Dichlorobenzene	Ave	1.128	1.143		10.1	10.0	1.3	30.0
n-Dodecane	Ave	1.091	1.232		11.3	10.0	12.9	30.0
1,2,4-Trichlorobenzene	Ave	0.9759	1.007		10.3	10.0	3.2	30.0
Hexachlorobutadiene	Ave	1.043	1.037		9.94	10.0	-0.6	30.0
Naphthalene	Ave	1.855	1.949		10.5	10.0	5.0	30.0
1,2,3-Trichlorobenzene	Ave	0.8485	0.9159		10.8	10.0	7.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
 SDG No.: _____
 Lab Sample ID: CCVIS 200-146883/3 Calibration Date: 09/03/2019 11:29
 Instrument ID: CHB.i Calib Start Date: 08/21/2019 20:08
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/22/2019 11:01
 Lab File ID: 37598-03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.9149	0.9230		10.1	10.0	0.9	30.0
Dichlorodifluoromethane	Ave	3.073	2.931		9.54	10.0	-4.6	30.0
Freon 22	Ave	1.895	1.734		9.15	10.0	-8.5	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.017	2.899		9.61	10.0	-3.9	30.0
Chloromethane	Ave	1.069	1.070		10.0	10.0	0.2	30.0
n-Butane	Ave	2.020	1.869		9.25	10.0	-7.5	30.0
Vinyl chloride	Ave	1.182	1.196		10.1	10.0	1.2	30.0
1,3-Butadiene	Ave	0.9382	0.9221		9.83	10.0	-1.7	30.0
Bromomethane	Ave	1.072	1.216		11.3	10.0	13.4	30.0
Chloroethane	Ave	0.6093	0.6841		11.2	10.0	12.3	30.0
Isopentane	Ave	1.943	1.714		8.82	10.0	-11.8	30.0
Bromoethene (Vinyl Bromide)	Ave	1.037	1.234		11.9	10.0	19.0	30.0
Trichlorofluoromethane	Ave	3.344	3.420		10.2	10.0	2.3	30.0
n-Pentane	Ave	2.766	2.680		9.68	10.0	-3.1	30.0
Ethanol	Ave	0.5145	0.5147		15.0	15.0	0.0	30.0
Ethyl ether	Ave	0.9925	0.8778		8.84	10.0	-11.5	30.0
Acrolein	Ave	0.4851	0.5152		10.6	10.0	6.2	30.0
Freon TF	Ave	2.890	2.714		9.39	10.0	-6.1	30.0
1,1-Dichloroethene	Ave	1.406	1.311		9.32	10.0	-6.8	30.0
Acetone	Ave	2.594	2.095		8.07	10.0	-19.2	30.0
Isopropyl alcohol	Ave	2.476	2.255		9.11	10.0	-8.9	30.0
Carbon disulfide	Ave	3.899	3.773		9.67	10.0	-3.2	30.0
3-Chloropropene	Ave	2.162	2.132		9.86	10.0	-1.4	30.0
Acetonitrile	Ave	1.251	1.191		9.52	10.0	-4.7	30.0
Methylene Chloride	Ave	1.981	1.598		8.07	10.0	-19.3	30.0
tert-Butyl alcohol	Ave	3.012	2.771		9.20	10.0	-8.0	30.0
Methyl tert-butyl ether	Ave	4.368	3.773		8.64	10.0	-13.6	30.0
trans-1,2-Dichloroethene	Ave	2.260	1.891		8.37	10.0	-16.3	30.0
Acrylonitrile	Ave	1.098	0.9644		8.79	10.0	-12.1	30.0
n-Hexane	Ave	2.934	2.140		7.29	10.0	-27.1	30.0
1,1-Dichloroethane	Ave	2.887	2.407		8.34	10.0	-16.6	30.0
Vinyl acetate	Ave	4.241	3.577		8.43	10.0	-15.6	30.0
Methyl Ethyl Ketone	Ave	0.7731	0.6956		9.00	10.0	-10.0	30.0
cis-1,2-Dichloroethene	Ave	1.553	1.375		8.85	10.0	-11.4	30.0
Ethyl acetate	Ave	0.1204	0.1155		9.59	10.0	-4.1	30.0
Tetrahydrofuran	Ave	0.3881	0.3401		8.76	10.0	-12.4	30.0
Chloroform	Ave	3.312	2.782		8.40	10.0	-16.0	30.0
1,1,1-Trichloroethane	Ave	0.6900	0.5896		8.54	10.0	-14.5	30.0
Cyclohexane	Ave	0.4018	0.3620		9.01	10.0	-9.9	30.0
Carbon tetrachloride	Ave	0.6695	0.6180		9.23	10.0	-7.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
 SDG No.: _____
 Lab Sample ID: CCVIS 200-146883/3 Calibration Date: 09/03/2019 11:29
 Instrument ID: CHB.i Calib Start Date: 08/21/2019 20:08
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/22/2019 11:01
 Lab File ID: 37598-03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	1.618	1.380		8.53	10.0	-14.7	30.0
Benzene	Ave	0.9651	0.8687		9.00	10.0	-10.0	30.0
1,2-Dichloroethane	Ave	0.4714	0.3753		7.96	10.0	-20.4	30.0
n-Heptane	Ave	0.7136	0.5739		8.04	10.0	-19.6	30.0
n-Butanol	Ave	0.1772	0.1634		9.22	10.0	-7.8	30.0
Trichloroethene	Ave	0.4185	0.3678		8.79	10.0	-12.1	30.0
1,2-Dichloropropane	Ave	0.3667	0.3195		8.71	10.0	-12.9	30.0
Methyl methacrylate	Ave	0.3424	0.3075		8.98	10.0	-10.2	30.0
1,4-Dioxane	Ave	0.1694	0.1681		9.92	10.0	-0.8	30.0
Dibromomethane	Ave	0.4228	0.4023		9.51	10.0	-4.8	30.0
Bromodichloromethane	Ave	0.6981	0.6294		9.01	10.0	-9.8	30.0
cis-1,3-Dichloropropene	Ave	0.5681	0.5026		8.85	10.0	-11.5	30.0
methyl isobutyl ketone	Ave	0.9272	0.7552		8.14	10.0	-18.6	30.0
n-Octane	Ave	0.9851	0.8094		8.21	10.0	-17.8	30.0
Toluene	Ave	0.7667	0.6951		9.06	10.0	-9.3	30.0
trans-1,3-Dichloropropene	Ave	0.5313	0.4631		8.72	10.0	-12.8	30.0
1,1,2-Trichloroethane	Ave	0.3662	0.3355		9.16	10.0	-8.4	30.0
Tetrachloroethene	Ave	0.7009	0.6566		9.37	10.0	-6.3	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	1.039	0.8011		7.71	10.0	-22.9	30.0
Dibromochloromethane	Ave	0.7513	0.7509		9.99	10.0	-0.0	30.0
1,2-Dibromoethane	Ave	0.6634	0.6369		9.60	10.0	-4.0	30.0
Chlorobenzene	Ave	1.019	0.9283		9.11	10.0	-8.9	30.0
Ethylbenzene	Ave	1.770	1.536		8.67	10.0	-13.3	30.0
n-Nonane	Ave	0.8949	0.7611		8.50	10.0	-15.0	30.0
m,p-Xylene	Ave	0.6706	0.6187		18.4	20.0	-7.7	30.0
Xylene, o-	Ave	0.6666	0.5951		8.92	10.0	-10.7	30.0
Styrene	Ave	1.091	0.9806		8.98	10.0	-10.1	30.0
Bromoform	Ave	0.7027	0.8301		11.8	10.0	18.1	30.0
Cumene	Ave	1.915	1.746		9.11	10.0	-8.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9752	0.9089		9.32	10.0	-6.8	30.0
n-Propylbenzene	Ave	2.342	2.087		8.91	10.0	-10.9	30.0
1,2,3-Trichloropropane	Ave	0.8486	0.7160		8.44	10.0	-15.6	30.0
n-Decane	Ave	1.138	0.9766		8.58	10.0	-14.2	30.0
4-Ethyltoluene	Ave	1.926	1.748		9.07	10.0	-9.3	30.0
2-Chlorotoluene	Ave	1.630	1.416		8.69	10.0	-13.1	30.0
1,3,5-Trimethylbenzene	Ave	1.602	1.473		9.19	10.0	-8.1	30.0
Alpha Methyl Styrene	Ave	0.8610	0.7961		9.24	10.0	-7.5	30.0
tert-Butylbenzene	Ave	1.524	1.414		9.28	10.0	-7.2	30.0
1,2,4-Trimethylbenzene	Ave	1.584	1.468		9.27	10.0	-7.3	30.0
sec-Butylbenzene	Ave	2.347	2.194		9.34	10.0	-6.5	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1
 SDG No.: _____
 Lab Sample ID: CCVIS 200-146883/3 Calibration Date: 09/03/2019 11:29
 Instrument ID: CHB.i Calib Start Date: 08/21/2019 20:08
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/22/2019 11:01
 Lab File ID: 37598-03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.967	1.846		9.38	10.0	-6.2	30.0
1,3-Dichlorobenzene	Ave	1.176	1.117		9.49	10.0	-5.1	30.0
1,4-Dichlorobenzene	Ave	1.170	1.111		9.49	10.0	-5.1	30.0
Benzyl chloride	Ave	1.364	1.345		9.86	10.0	-1.4	30.0
n-Undecane	Ave	1.181	1.042		8.82	10.0	-11.8	30.0
n-Butylbenzene	Ave	1.911	1.750		9.15	10.0	-8.4	30.0
1,2-Dichlorobenzene	Ave	1.128	1.061		9.41	10.0	-5.9	30.0
n-Dodecane	Ave	1.091	0.9123		8.36	10.0	-16.3	30.0
1,2,4-Trichlorobenzene	Ave	0.9759	0.8787		9.00	10.0	-10.0	30.0
Hexachlorobutadiene	Ave	1.043	0.8586		8.23	10.0	-17.6	30.0
Naphthalene	Ave	1.855	1.705		9.19	10.0	-8.1	30.0
1,2,3-Trichlorobenzene	Ave	0.8485	0.7793		9.18	10.0	-8.2	30.0

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1

SDG No.: _____

Instrument ID: CHB.i Start Date: 08/21/2019 16:44Analysis Batch Number: 146515 End Date: 08/22/2019 13:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-146515/1		08/21/2019 16:44	1	37429-01.D	RTX-624 0.32 (mm)
IC 200-146515/5		08/21/2019 20:08	1	37429-05.D	RTX-624 0.32 (mm)
IC 200-146515/6		08/21/2019 21:00	1	37429-06.D	RTX-624 0.32 (mm)
IC 200-146515/7		08/21/2019 21:53	1	37429-07.D	RTX-624 0.32 (mm)
ICIS 200-146515/8		08/21/2019 22:46	1	37429-08.D	RTX-624 0.32 (mm)
IC 200-146515/12		08/22/2019 02:16	1	37429-12.D	RTX-624 0.32 (mm)
IC 200-146515/13		08/22/2019 03:08	1	37429-13.D	RTX-624 0.32 (mm)
IC 200-146515/22		08/22/2019 11:01	1	37429-22.D	RTX-624 0.32 (mm)
ICV 200-146515/24		08/22/2019 13:12	1	37429-24.D	RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-50375-1

SDG No.: _____

Instrument ID: CHB.i Start Date: 09/03/2019 09:44Analysis Batch Number: 146883 End Date: 09/04/2019 06:56

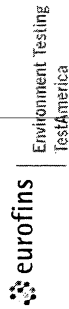
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-146883/1		09/03/2019 09:44	1	37598-01.D	RTX-624 0.32 (mm)
CCVIS 200-146883/3		09/03/2019 11:29	1	37598-03.D	RTX-624 0.32 (mm)
LCS 200-146883/4		09/03/2019 12:21	1	37598-04.D	RTX-624 0.32 (mm)
MB 200-146883/5		09/03/2019 13:14	1	37598-05.D	RTX-624 0.32 (mm)
ZZZZZ		09/03/2019 14:14	1		RTX-624 0.32 (mm)
ZZZZZ		09/03/2019 15:06	1		RTX-624 0.32 (mm)
ZZZZZ		09/03/2019 16:08	0.2		RTX-624 0.32 (mm)
ZZZZZ		09/03/2019 17:11	0.2		RTX-624 0.32 (mm)
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ZZZZZ		09/03/2019 21:01	0.2		RTX-624 0.32 (mm)
ZZZZZ		09/03/2019 22:04	1		RTX-624 0.32 (mm)
ZZZZZ		09/03/2019 23:06	0.2		RTX-624 0.32 (mm)
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ZZZZZ		09/04/2019 00:51	1		RTX-624 0.32 (mm)
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200-50375-7		09/04/2019 02:46	0.2	37598-19.D	RTX-624 0.32 (mm)
ZZZZZ		09/04/2019 03:48	0.2		RTX-624 0.32 (mm)
ZZZZZ		09/04/2019 04:51	0.2		RTX-624 0.32 (mm)
ZZZZZ		09/04/2019 05:53	0.2		RTX-624 0.32 (mm)
ZZZZZ		09/04/2019 06:56	0.2		RTX-624 0.32 (mm)

Shipping and Receiving Documents

Eurofins TestAmerica, Burlington
 30 Community Drive
 Suite 11
 South Burlington, VT 05403-6809
 phone 802.660.1990 fax 802.660.1919

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.



Client Contact Information Company Name: <u>ABCUM</u> Address: <u>252 W. Genesee</u> City/State/Zip: <u>Buffalo, NY 14202</u> Phone: <u>716 866 8222</u> FAX: <u>716 866 8222</u> Project Name: <u>Scott Figgie in Plant 2</u> Site/Location: <u>Canastota, NY</u> P O # <u> </u>				Client Project Manager: <u>Don Zach</u> Phone: <u>716 866 8222</u> Email: <u>donzach@eurofins.com</u> Site Contact: <u> </u> Tel/Fax: <u> </u> Analysis Turnaround Time: <u> </u> Standard (Specify): <u>X</u> Rush (Specify): <u> </u>				Samples Collected By: <u>DCZ</u> COC No: <u>1</u> of <u>1</u> COCs			
Sample Identification Sample Start Date: <u>10/13/19</u> Sample End Date: <u>10/13/19</u> Time Start: <u>0700</u> Time Stop: <u>0700</u> Canister Vacuum in Field, "Hg (Start): <u>3200</u> Canister Vacuum in Field, "Hg (Stop): <u>NA</u> Canister ID: <u>NA</u> Flow Controller ID: <u>NA</u> Canister ID: <u>4837</u>		Sample Type Other (Please specify in notes section): <u> </u> EPA 15/16 <u> </u> ASTM D-1946 <u> </u> EPA 25C <u> </u> EPA 3C <u> </u> TO-15 SIM <u> </u> TO-14/15 (Standard / Low Level) <u> </u>		Other (Please specify in notes section) Landfill Gas <u> </u> Soil Vapor Extraction (SVE) <u> </u> Soil Gas <u> </u> Sub-Slab <u> </u> Indoor Air/Ambient Air <u> </u>		Sample Specific Notes: For Lab Use Only: Walk-in Client: <u> </u> Lab Sampling: <u> </u> Job / SDG No.: <u> </u> (See below for Add'l Items)					
 200-51013 Chain of Custody											
Special Instructions/QC Requirements & Comments: 											
Samples Shipped by: <u>Don Zach</u> Samples Relinquished by: <u> </u> Relinquished by: <u> </u> Lab Use Only: <u> </u> Shipper Name: <u> </u>		Date / Time: <u>10/13/19 1600</u> Date / Time: <u> </u> Date / Time: <u> </u> Opened by: <u> </u>		Samples Received by: <u> </u> Received by: <u> </u> Received by: <u> </u> Condition: <u> </u>							

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Part # 159469-434 RITE EXP 04/20

ORIGIN ID:DKKA (716) 691-2600
CHRIS KOLB
TESTAMERICA
10 HAZELWOOD DR

SHIP DATE: 15OCT19
ACTWGT: 7.15 LB
CAD: 846654/CAFE3310

AMHERST, NY 14228
UNITED STATES US

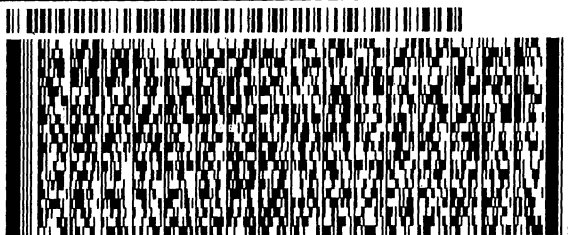
BILL RECIPIENT

TO **SAMPLE MGT.**
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1890

REF: TA SOUTH BURLINGTON

2850/2802/CE595



FedEx
Express



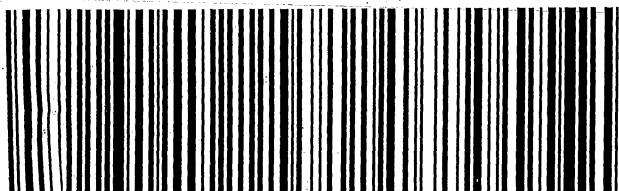
AN 10619006 12.61 JT

TRK# 4276 0721 4320
0201

WED - 16 OCT 10:30A
PRIORITY OVERNIGHT

XH BTVA

05403
VT-US BTV



Login Sample Receipt Checklist

Client: AECOM

Job Number: 200-51013-1

Login Number: 51013

List Number: 1

Creator: Mohn, Taylor J

List Source: Eurofins TestAmerica, Burlington

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	NA: Lab does not accept radioactive samples
The cooler's custody seal, if present, is intact.	N/A	No: Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	No: Thermal preservation not required
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	No: Thermal preservation not required
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

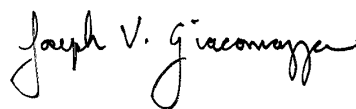
Laboratory Job ID: 480-160839-1

Client Project/Site: Scott Figgie West of Plant 2

For:

AECOM
257 West Genesee Street
Suite 400
Buffalo, New York 14202-2657

Attn: Mr. Dino Zack



Authorized for release by:

11/5/2019 3:18:27 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Job ID: 480-160839-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-160839-1

Comments

No additional comments.

Receipt

The samples were received on 10/14/2019 4:30 PM, 10/15/2019 4:50 PM, 10/17/2019 5:15 PM and 10/18/2019 4:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.7° C, 3.2° C, 3.3° C and 3.6° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-498884 recovered outside acceptance criteria, low biased, for 2-Hexanone, 4-Methyl-2-pentanone (MIBK), 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample is impacted: DPE-8 (480-160839-6).

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: DPE-8 (480-160839-6). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-8R (480-160850-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-498989 recovered outside acceptance criteria, low biased, for 2-Butanone (MEK), 2-Hexanone and 4-Methyl-2-pentanone (MIBK). A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect above the reporting limit (RL) for these analytes, the data have been reported. The following samples are impacted: MW-8R (480-160850-1), MW-2 (480-160850-2), MW-3 (480-160850-3), MW-11 (480-160850-4), MW-13D (480-160850-5) and Duplicate (480-160850-6).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-498989 recovered outside control limits for the following analyte: Methyl acetate. Methyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The following samples are impacted: MW-8R (480-160850-1), MW-2 (480-160850-2), MW-3 (480-160850-3), MW-11 (480-160850-4), MW-13D (480-160850-5) and Duplicate (480-160850-6).

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: DPE-3 (480-160839-1), DPE-4 (480-160839-2), DPE-5 (480-160839-3), DPE-7 (480-160839-5) and DPE-1 (480-160839-8). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-499242 recovered outside acceptance criteria, low biased, for 2-Hexanone, 4-Methyl-2-pentanone (MIBK) and 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: DPE-3 (480-160839-1), DPE-4 (480-160839-2), DPE-5 (480-160839-3), DPE-6 (480-160839-4), DPE-7 (480-160839-5), GWCT (480-160839-7), DPE-1 (480-160839-8), Trip Blank (480-160839-10) and Rinse Blank (480-160839-11).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-499242 recovered above the upper control limit for Carbon tetrachloride and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DPE-3 (480-160839-1), DPE-4 (480-160839-2), DPE-5 (480-160839-3), DPE-6 (480-160839-4), DPE-7 (480-160839-5), GWCT (480-160839-7), DPE-1 (480-160839-8), Trip Blank (480-160839-10) and Rinse Blank (480-160839-11).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-499242 recovered outside control limits for the following analyte: Methyl acetate. Methyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified. The following samples are impacted: DPE-3 (480-160839-1), DPE-4 (480-160839-2), DPE-5 (480-160839-3), DPE-6 (480-160839-4), DPE-7 (480-160839-5), GWCT (480-160839-7), DPE-1 (480-160839-8), Trip Blank (480-160839-10) and Rinse Blank (480-160839-11).

Case Narrative

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Job ID: 480-160839-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-499600 recovered outside acceptance criteria, low biased, for 2-Hexanone, 4-Methyl-2-pentanone (MIBK) and 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample is impacted: DPE-2 (480-160839-9).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-499600 recovered outside control limits for the following analyte: Methyl acetate. Methyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified. The following sample is impacted: DPE-2 (480-160839-9).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-4 (480-161048-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The following Volatile samples were composited by the laboratory on 10/25/2019 as requested by the client: MW-4 (480-161048-1) and MW-16D (480-161048-2). Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-16S (480-161146-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-500429 recovered above the upper control limit for Carbon tetrachloride, 1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Trichlorofluoromethane and Trichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: MW-16S (480-161146-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-8R (480-160850-1). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-4 (480-161048-1) and MW-16D (480-161048-2). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-16S (480-161146-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method RSK-175: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-8R (480-160850-1). Elevated reporting limits (RLs) are provided.

Method RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-4 (480-161048-1), MW-16D (480-161048-2) and MW-16S (480-161146-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010C: The Low Level Continuing Calibration Verification, (CCVL 480-498677/42) associated with batch 480-498677, contained Total Manganese above the upper quality control limit. The associated samples were either ND for the affected analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples MW-8R (480-160850-1) was not performed.

Case Narrative

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Job ID: 480-160839-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 353.2: The results reported for the following sample do not concur with results previously reported for this site: MW-4 (480-161048-1). Reanalysis was performed, and the result(s) confirmed.

Method 353.2: The results reported for the following sample do not concur with results previously reported for this site: MW-16S (480-161146-2). Reanalysis was performed, and the result(s) confirmed.

Method 353.2: The results reported for the following sample do not concur with results previously reported for this site: MW-16S (480-161146-2). Reanalysis was performed, and the result(s) confirmed.

Method SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-8R (480-160850-1), MW-4 (480-161048-1) and MW-16D (480-161048-2).

Method SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-16S (480-161146-1).

Method SM 4500 S2 F: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: MW-8R (480-160850-1). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: DPE-3

Lab Sample ID: 480-160839-1

Date Collected: 10/14/19 14:25

Matrix: Water

Date Received: 10/14/19 16:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/21/19 22:02	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/21/19 22:02	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			10/21/19 22:02	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/21/19 22:02	10
1,1-Dichloroethane	ND		10	3.8	ug/L			10/21/19 22:02	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/21/19 22:02	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			10/21/19 22:02	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			10/21/19 22:02	10
1,2-Dibromoethane	ND		10	7.3	ug/L			10/21/19 22:02	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			10/21/19 22:02	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/21/19 22:02	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/21/19 22:02	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			10/21/19 22:02	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			10/21/19 22:02	10
2-Butanone (MEK)	ND		100	13	ug/L			10/21/19 22:02	10
2-Hexanone	ND		50	12	ug/L			10/21/19 22:02	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			10/21/19 22:02	10
Acetone	63	J	100	30	ug/L			10/21/19 22:02	10
Benzene	ND		10	4.1	ug/L			10/21/19 22:02	10
Bromodichloromethane	ND		10	3.9	ug/L			10/21/19 22:02	10
Bromoform	ND		10	2.6	ug/L			10/21/19 22:02	10
Bromomethane	ND		10	6.9	ug/L			10/21/19 22:02	10
Carbon disulfide	ND		10	1.9	ug/L			10/21/19 22:02	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/21/19 22:02	10
Chlorobenzene	ND		10	7.5	ug/L			10/21/19 22:02	10
Chloroethane	16		10	3.2	ug/L			10/21/19 22:02	10
Chloroform	ND		10	3.4	ug/L			10/21/19 22:02	10
Chloromethane	ND		10	3.5	ug/L			10/21/19 22:02	10
cis-1,2-Dichloroethene	19		10	8.1	ug/L			10/21/19 22:02	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/21/19 22:02	10
Cyclohexane	ND		10	1.8	ug/L			10/21/19 22:02	10
Dibromochloromethane	ND		10	3.2	ug/L			10/21/19 22:02	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			10/21/19 22:02	10
Ethylbenzene	ND		10	7.4	ug/L			10/21/19 22:02	10
Isopropylbenzene	ND		10	7.9	ug/L			10/21/19 22:02	10
Methyl acetate	ND *		25	13	ug/L			10/21/19 22:02	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			10/21/19 22:02	10
Methylcyclohexane	ND		10	1.6	ug/L			10/21/19 22:02	10
Methylene Chloride	10		10	4.4	ug/L			10/21/19 22:02	10
Styrene	ND		10	7.3	ug/L			10/21/19 22:02	10
Tetrachloroethene	ND		10	3.6	ug/L			10/21/19 22:02	10
Toluene	5.3	J	10	5.1	ug/L			10/21/19 22:02	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/21/19 22:02	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/21/19 22:02	10
Trichloroethene	ND		10	4.6	ug/L			10/21/19 22:02	10
Trichlorofluoromethane	ND		10	8.8	ug/L			10/21/19 22:02	10
Vinyl chloride	29		10	9.0	ug/L			10/21/19 22:02	10
Xylenes, Total	ND		20	6.6	ug/L			10/21/19 22:02	10

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-3

Lab Sample ID: 480-160839-1

Date Collected: 10/14/19 14:25

Matrix: Water

Date Received: 10/14/19 16:30

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		10/21/19 22:02	10
4-Bromofluorobenzene (Surr)	102		73 - 120		10/21/19 22:02	10
Toluene-d8 (Surr)	103		80 - 120		10/21/19 22:02	10
Dibromofluoromethane (Surr)	111		75 - 123		10/21/19 22:02	10

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: DPE-4

Lab Sample ID: 480-160839-2

Date Collected: 10/14/19 14:12

Matrix: Water

Date Received: 10/14/19 16:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/21/19 22:26	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/21/19 22:26	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			10/21/19 22:26	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/21/19 22:26	10
1,1-Dichloroethane	14		10	3.8	ug/L			10/21/19 22:26	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/21/19 22:26	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			10/21/19 22:26	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			10/21/19 22:26	10
1,2-Dibromoethane	ND		10	7.3	ug/L			10/21/19 22:26	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			10/21/19 22:26	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/21/19 22:26	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/21/19 22:26	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			10/21/19 22:26	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			10/21/19 22:26	10
2-Butanone (MEK)	ND		100	13	ug/L			10/21/19 22:26	10
2-Hexanone	ND		50	12	ug/L			10/21/19 22:26	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			10/21/19 22:26	10
Acetone	ND		100	30	ug/L			10/21/19 22:26	10
Benzene	ND		10	4.1	ug/L			10/21/19 22:26	10
Bromodichloromethane	ND		10	3.9	ug/L			10/21/19 22:26	10
Bromoform	ND		10	2.6	ug/L			10/21/19 22:26	10
Bromomethane	ND		10	6.9	ug/L			10/21/19 22:26	10
Carbon disulfide	ND		10	1.9	ug/L			10/21/19 22:26	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/21/19 22:26	10
Chlorobenzene	ND		10	7.5	ug/L			10/21/19 22:26	10
Chloroethane	ND		10	3.2	ug/L			10/21/19 22:26	10
Chloroform	ND		10	3.4	ug/L			10/21/19 22:26	10
Chloromethane	ND		10	3.5	ug/L			10/21/19 22:26	10
cis-1,2-Dichloroethene	87		10	8.1	ug/L			10/21/19 22:26	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/21/19 22:26	10
Cyclohexane	ND		10	1.8	ug/L			10/21/19 22:26	10
Dibromochloromethane	ND		10	3.2	ug/L			10/21/19 22:26	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			10/21/19 22:26	10
Ethylbenzene	ND		10	7.4	ug/L			10/21/19 22:26	10
Isopropylbenzene	ND		10	7.9	ug/L			10/21/19 22:26	10
Methyl acetate	ND *		25	13	ug/L			10/21/19 22:26	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			10/21/19 22:26	10
Methylcyclohexane	ND		10	1.6	ug/L			10/21/19 22:26	10
Methylene Chloride	12		10	4.4	ug/L			10/21/19 22:26	10
Styrene	ND		10	7.3	ug/L			10/21/19 22:26	10
Tetrachloroethene	ND		10	3.6	ug/L			10/21/19 22:26	10
Toluene	ND		10	5.1	ug/L			10/21/19 22:26	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/21/19 22:26	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/21/19 22:26	10
Trichloroethene	ND		10	4.6	ug/L			10/21/19 22:26	10
Trichlorofluoromethane	ND		10	8.8	ug/L			10/21/19 22:26	10
Vinyl chloride	34		10	9.0	ug/L			10/21/19 22:26	10
Xylenes, Total	ND		20	6.6	ug/L			10/21/19 22:26	10

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-4

Lab Sample ID: 480-160839-2

Date Collected: 10/14/19 14:12

Matrix: Water

Date Received: 10/14/19 16:30

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		10/21/19 22:26	10
4-Bromofluorobenzene (Surr)	103		73 - 120		10/21/19 22:26	10
Toluene-d8 (Surr)	101		80 - 120		10/21/19 22:26	10
Dibromofluoromethane (Surr)	110		75 - 123		10/21/19 22:26	10

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: DPE-5

Lab Sample ID: 480-160839-3

Date Collected: 10/14/19 14:05

Matrix: Water

Date Received: 10/14/19 16:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/21/19 22:51	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/21/19 22:51	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			10/21/19 22:51	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/21/19 22:51	10
1,1-Dichloroethane	ND		10	3.8	ug/L			10/21/19 22:51	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/21/19 22:51	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			10/21/19 22:51	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			10/21/19 22:51	10
1,2-Dibromoethane	ND		10	7.3	ug/L			10/21/19 22:51	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			10/21/19 22:51	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/21/19 22:51	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/21/19 22:51	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			10/21/19 22:51	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			10/21/19 22:51	10
2-Butanone (MEK)	ND		100	13	ug/L			10/21/19 22:51	10
2-Hexanone	ND		50	12	ug/L			10/21/19 22:51	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			10/21/19 22:51	10
Acetone	32	J	100	30	ug/L			10/21/19 22:51	10
Benzene	ND		10	4.1	ug/L			10/21/19 22:51	10
Bromodichloromethane	ND		10	3.9	ug/L			10/21/19 22:51	10
Bromoform	ND		10	2.6	ug/L			10/21/19 22:51	10
Bromomethane	ND		10	6.9	ug/L			10/21/19 22:51	10
Carbon disulfide	ND		10	1.9	ug/L			10/21/19 22:51	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/21/19 22:51	10
Chlorobenzene	ND		10	7.5	ug/L			10/21/19 22:51	10
Chloroethane	53		10	3.2	ug/L			10/21/19 22:51	10
Chloroform	ND		10	3.4	ug/L			10/21/19 22:51	10
Chloromethane	ND		10	3.5	ug/L			10/21/19 22:51	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/21/19 22:51	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/21/19 22:51	10
Cyclohexane	ND		10	1.8	ug/L			10/21/19 22:51	10
Dibromochloromethane	ND		10	3.2	ug/L			10/21/19 22:51	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			10/21/19 22:51	10
Ethylbenzene	ND		10	7.4	ug/L			10/21/19 22:51	10
Isopropylbenzene	ND		10	7.9	ug/L			10/21/19 22:51	10
Methyl acetate	ND *		25	13	ug/L			10/21/19 22:51	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			10/21/19 22:51	10
Methylcyclohexane	ND		10	1.6	ug/L			10/21/19 22:51	10
Methylene Chloride	9.1	J	10	4.4	ug/L			10/21/19 22:51	10
Styrene	ND		10	7.3	ug/L			10/21/19 22:51	10
Tetrachloroethene	ND		10	3.6	ug/L			10/21/19 22:51	10
Toluene	ND		10	5.1	ug/L			10/21/19 22:51	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/21/19 22:51	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/21/19 22:51	10
Trichloroethene	ND		10	4.6	ug/L			10/21/19 22:51	10
Trichlorofluoromethane	ND		10	8.8	ug/L			10/21/19 22:51	10
Vinyl chloride	ND		10	9.0	ug/L			10/21/19 22:51	10
Xylenes, Total	ND		20	6.6	ug/L			10/21/19 22:51	10

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Client Sample Results

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-5

Lab Sample ID: 480-160839-3

Date Collected: 10/14/19 14:05

Matrix: Water

Date Received: 10/14/19 16:30

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		10/21/19 22:51	10
4-Bromofluorobenzene (Surr)	103		73 - 120		10/21/19 22:51	10
Toluene-d8 (Surr)	103		80 - 120		10/21/19 22:51	10
Dibromofluoromethane (Surr)	108		75 - 123		10/21/19 22:51	10

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: DPE-6

Lab Sample ID: 480-160839-4

Date Collected: 10/14/19 13:55

Matrix: Water

Date Received: 10/14/19 16:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/21/19 23:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/21/19 23:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/21/19 23:15	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/21/19 23:15	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/21/19 23:15	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/21/19 23:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/21/19 23:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/21/19 23:15	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/21/19 23:15	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/21/19 23:15	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/21/19 23:15	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/21/19 23:15	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/21/19 23:15	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/21/19 23:15	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/21/19 23:15	1
2-Hexanone	ND		5.0	1.2	ug/L			10/21/19 23:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/21/19 23:15	1
Acetone	ND		10	3.0	ug/L			10/21/19 23:15	1
Benzene	ND		1.0	0.41	ug/L			10/21/19 23:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/21/19 23:15	1
Bromoform	ND		1.0	0.26	ug/L			10/21/19 23:15	1
Bromomethane	ND		1.0	0.69	ug/L			10/21/19 23:15	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/21/19 23:15	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/21/19 23:15	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/21/19 23:15	1
Chloroethane	ND		1.0	0.32	ug/L			10/21/19 23:15	1
Chloroform	ND		1.0	0.34	ug/L			10/21/19 23:15	1
Chloromethane	ND		1.0	0.35	ug/L			10/21/19 23:15	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/21/19 23:15	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/21/19 23:15	1
Cyclohexane	ND		1.0	0.18	ug/L			10/21/19 23:15	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/21/19 23:15	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/21/19 23:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/21/19 23:15	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/21/19 23:15	1
Methyl acetate	ND *		2.5	1.3	ug/L			10/21/19 23:15	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/21/19 23:15	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/21/19 23:15	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/21/19 23:15	1
Styrene	ND		1.0	0.73	ug/L			10/21/19 23:15	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/21/19 23:15	1
Toluene	ND		1.0	0.51	ug/L			10/21/19 23:15	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/21/19 23:15	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/21/19 23:15	1
Trichloroethene	ND		1.0	0.46	ug/L			10/21/19 23:15	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/21/19 23:15	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/21/19 23:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/21/19 23:15	1

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Client Sample Results

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-6

Lab Sample ID: 480-160839-4

Date Collected: 10/14/19 13:55

Matrix: Water

Date Received: 10/14/19 16:30

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	113		77 - 120		10/21/19 23:15	1
4-Bromofluorobenzene (Surr)	105		73 - 120		10/21/19 23:15	1
Toluene-d8 (Surr)	104		80 - 120		10/21/19 23:15	1
Dibromofluoromethane (Surr)	112		75 - 123		10/21/19 23:15	1

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: DPE-7

Lab Sample ID: 480-160839-5

Date Collected: 10/14/19 14:35

Matrix: Water

Date Received: 10/14/19 16:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40	33	ug/L			10/21/19 23:39	40
1,1,2,2-Tetrachloroethane	ND		40	8.4	ug/L			10/21/19 23:39	40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40	12	ug/L			10/21/19 23:39	40
1,1,2-Trichloroethane	ND		40	9.2	ug/L			10/21/19 23:39	40
1,1-Dichloroethane	ND		40	15	ug/L			10/21/19 23:39	40
1,1-Dichloroethene	ND		40	12	ug/L			10/21/19 23:39	40
1,2,4-Trichlorobenzene	ND		40	16	ug/L			10/21/19 23:39	40
1,2-Dibromo-3-Chloropropane	ND		40	16	ug/L			10/21/19 23:39	40
1,2-Dibromoethane	ND		40	29	ug/L			10/21/19 23:39	40
1,2-Dichlorobenzene	ND		40	32	ug/L			10/21/19 23:39	40
1,2-Dichloroethane	ND		40	8.4	ug/L			10/21/19 23:39	40
1,2-Dichloropropane	ND		40	29	ug/L			10/21/19 23:39	40
1,3-Dichlorobenzene	ND		40	31	ug/L			10/21/19 23:39	40
1,4-Dichlorobenzene	ND		40	34	ug/L			10/21/19 23:39	40
2-Butanone (MEK)	ND		400	53	ug/L			10/21/19 23:39	40
2-Hexanone	ND		200	50	ug/L			10/21/19 23:39	40
4-Methyl-2-pentanone (MIBK)	ND		200	84	ug/L			10/21/19 23:39	40
Acetone	ND		400	120	ug/L			10/21/19 23:39	40
Benzene	ND		40	16	ug/L			10/21/19 23:39	40
Bromodichloromethane	ND		40	16	ug/L			10/21/19 23:39	40
Bromoform	ND		40	10	ug/L			10/21/19 23:39	40
Bromomethane	ND		40	28	ug/L			10/21/19 23:39	40
Carbon disulfide	ND		40	7.6	ug/L			10/21/19 23:39	40
Carbon tetrachloride	ND		40	11	ug/L			10/21/19 23:39	40
Chlorobenzene	ND		40	30	ug/L			10/21/19 23:39	40
Chloroethane	ND		40	13	ug/L			10/21/19 23:39	40
Chloroform	ND		40	14	ug/L			10/21/19 23:39	40
Chloromethane	ND		40	14	ug/L			10/21/19 23:39	40
cis-1,2-Dichloroethene	ND		40	32	ug/L			10/21/19 23:39	40
cis-1,3-Dichloropropene	ND		40	14	ug/L			10/21/19 23:39	40
Cyclohexane	ND		40	7.2	ug/L			10/21/19 23:39	40
Dibromochloromethane	ND		40	13	ug/L			10/21/19 23:39	40
Dichlorodifluoromethane	ND		40	27	ug/L			10/21/19 23:39	40
Ethylbenzene	ND		40	30	ug/L			10/21/19 23:39	40
Isopropylbenzene	ND		40	32	ug/L			10/21/19 23:39	40
Methyl acetate	ND *		100	52	ug/L			10/21/19 23:39	40
Methyl tert-butyl ether	ND		40	6.4	ug/L			10/21/19 23:39	40
Methylcyclohexane	ND		40	6.4	ug/L			10/21/19 23:39	40
Methylene Chloride	66		40	18	ug/L			10/21/19 23:39	40
Styrene	ND		40	29	ug/L			10/21/19 23:39	40
Tetrachloroethene	ND		40	14	ug/L			10/21/19 23:39	40
Toluene	ND		40	20	ug/L			10/21/19 23:39	40
trans-1,2-Dichloroethene	ND		40	36	ug/L			10/21/19 23:39	40
trans-1,3-Dichloropropene	ND		40	15	ug/L			10/21/19 23:39	40
Trichloroethene	ND		40	18	ug/L			10/21/19 23:39	40
Trichlorofluoromethane	ND		40	35	ug/L			10/21/19 23:39	40
Vinyl chloride	ND		40	36	ug/L			10/21/19 23:39	40
Xylenes, Total	ND		80	26	ug/L			10/21/19 23:39	40

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Client Sample Results

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-7

Lab Sample ID: 480-160839-5

Date Collected: 10/14/19 14:35

Matrix: Water

Date Received: 10/14/19 16:30

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		10/21/19 23:39	40
4-Bromofluorobenzene (Surr)	100		73 - 120		10/21/19 23:39	40
Toluene-d8 (Surr)	102		80 - 120		10/21/19 23:39	40
Dibromofluoromethane (Surr)	110		75 - 123		10/21/19 23:39	40

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: DPE-8

Lab Sample ID: 480-160839-6

Date Collected: 10/14/19 14:45

Matrix: Water

Date Received: 10/14/19 16:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			10/19/19 05:23	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			10/19/19 05:23	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			10/19/19 05:23	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			10/19/19 05:23	20
1,1-Dichloroethane	ND		20	7.6	ug/L			10/19/19 05:23	20
1,1-Dichloroethene	ND		20	5.8	ug/L			10/19/19 05:23	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			10/19/19 05:23	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			10/19/19 05:23	20
1,2-Dibromoethane	ND		20	15	ug/L			10/19/19 05:23	20
1,2-Dichlorobenzene	ND		20	16	ug/L			10/19/19 05:23	20
1,2-Dichloroethane	ND		20	4.2	ug/L			10/19/19 05:23	20
1,2-Dichloropropane	ND		20	14	ug/L			10/19/19 05:23	20
1,3-Dichlorobenzene	ND		20	16	ug/L			10/19/19 05:23	20
1,4-Dichlorobenzene	ND		20	17	ug/L			10/19/19 05:23	20
2-Butanone (MEK)	ND		200	26	ug/L			10/19/19 05:23	20
2-Hexanone	ND		100	25	ug/L			10/19/19 05:23	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			10/19/19 05:23	20
Acetone	ND		200	60	ug/L			10/19/19 05:23	20
Benzene	ND		20	8.2	ug/L			10/19/19 05:23	20
Bromodichloromethane	ND		20	7.8	ug/L			10/19/19 05:23	20
Bromoform	ND		20	5.2	ug/L			10/19/19 05:23	20
Bromomethane	ND		20	14	ug/L			10/19/19 05:23	20
Carbon disulfide	ND		20	3.8	ug/L			10/19/19 05:23	20
Carbon tetrachloride	ND		20	5.4	ug/L			10/19/19 05:23	20
Chlorobenzene	ND		20	15	ug/L			10/19/19 05:23	20
Chloroethane	ND		20	6.4	ug/L			10/19/19 05:23	20
Chloroform	ND		20	6.8	ug/L			10/19/19 05:23	20
Chloromethane	ND		20	7.0	ug/L			10/19/19 05:23	20
cis-1,2-Dichloroethene	ND		20	16	ug/L			10/19/19 05:23	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			10/19/19 05:23	20
Cyclohexane	ND		20	3.6	ug/L			10/19/19 05:23	20
Dibromochloromethane	ND		20	6.4	ug/L			10/19/19 05:23	20
Dichlorodifluoromethane	ND		20	14	ug/L			10/19/19 05:23	20
Ethylbenzene	ND		20	15	ug/L			10/19/19 05:23	20
Isopropylbenzene	ND		20	16	ug/L			10/19/19 05:23	20
Methyl acetate	ND		50	26	ug/L			10/19/19 05:23	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			10/19/19 05:23	20
Methylcyclohexane	ND		20	3.2	ug/L			10/19/19 05:23	20
Methylene Chloride	ND		20	8.8	ug/L			10/19/19 05:23	20
Styrene	ND		20	15	ug/L			10/19/19 05:23	20
Tetrachloroethene	ND		20	7.2	ug/L			10/19/19 05:23	20
Toluene	ND		20	10	ug/L			10/19/19 05:23	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			10/19/19 05:23	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			10/19/19 05:23	20
Trichloroethene	ND		20	9.2	ug/L			10/19/19 05:23	20
Trichlorofluoromethane	ND		20	18	ug/L			10/19/19 05:23	20
Vinyl chloride	ND		20	18	ug/L			10/19/19 05:23	20
Xylenes, Total	ND		40	13	ug/L			10/19/19 05:23	20

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Client Sample Results

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-8

Lab Sample ID: 480-160839-6

Date Collected: 10/14/19 14:45

Matrix: Water

Date Received: 10/14/19 16:30

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		10/19/19 05:23	20
4-Bromofluorobenzene (Surr)	102		73 - 120		10/19/19 05:23	20
Toluene-d8 (Surr)	103		80 - 120		10/19/19 05:23	20
Dibromofluoromethane (Surr)	108		75 - 123		10/19/19 05:23	20

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: GWCT

Lab Sample ID: 480-160839-7

Date Collected: 10/14/19 12:15

Matrix: Water

Date Received: 10/14/19 16:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/22/19 00:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/22/19 00:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/22/19 00:04	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/22/19 00:04	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/22/19 00:04	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/22/19 00:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/22/19 00:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/22/19 00:04	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/22/19 00:04	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/22/19 00:04	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/22/19 00:04	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/22/19 00:04	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/22/19 00:04	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/22/19 00:04	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/22/19 00:04	1
2-Hexanone	ND		5.0	1.2	ug/L			10/22/19 00:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/22/19 00:04	1
Acetone	ND		10	3.0	ug/L			10/22/19 00:04	1
Benzene	ND		1.0	0.41	ug/L			10/22/19 00:04	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/22/19 00:04	1
Bromoform	ND		1.0	0.26	ug/L			10/22/19 00:04	1
Bromomethane	ND		1.0	0.69	ug/L			10/22/19 00:04	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/22/19 00:04	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/22/19 00:04	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/22/19 00:04	1
Chloroethane	28		1.0	0.32	ug/L			10/22/19 00:04	1
Chloroform	ND		1.0	0.34	ug/L			10/22/19 00:04	1
Chloromethane	ND		1.0	0.35	ug/L			10/22/19 00:04	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/22/19 00:04	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/22/19 00:04	1
Cyclohexane	ND		1.0	0.18	ug/L			10/22/19 00:04	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/22/19 00:04	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/22/19 00:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/22/19 00:04	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/22/19 00:04	1
Methyl acetate	ND *		2.5	1.3	ug/L			10/22/19 00:04	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/22/19 00:04	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/22/19 00:04	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/22/19 00:04	1
Styrene	ND		1.0	0.73	ug/L			10/22/19 00:04	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/22/19 00:04	1
Toluene	ND		1.0	0.51	ug/L			10/22/19 00:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/22/19 00:04	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/22/19 00:04	1
Trichloroethene	ND		1.0	0.46	ug/L			10/22/19 00:04	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/22/19 00:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/22/19 00:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/22/19 00:04	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: GWCT

Lab Sample ID: 480-160839-7

Date Collected: 10/14/19 12:15

Matrix: Water

Date Received: 10/14/19 16:30

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	115		77 - 120		10/22/19 00:04	1
4-Bromofluorobenzene (Surr)	108		73 - 120		10/22/19 00:04	1
Toluene-d8 (Surr)	103		80 - 120		10/22/19 00:04	1
Dibromofluoromethane (Surr)	111		75 - 123		10/22/19 00:04	1

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: DPE-1

Lab Sample ID: 480-160839-8

Date Collected: 10/14/19 14:00

Matrix: Water

Date Received: 10/14/19 16:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			10/22/19 00:28	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			10/22/19 00:28	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			10/22/19 00:28	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			10/22/19 00:28	20
1,1-Dichloroethane	78		20	7.6	ug/L			10/22/19 00:28	20
1,1-Dichloroethene	ND		20	5.8	ug/L			10/22/19 00:28	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			10/22/19 00:28	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			10/22/19 00:28	20
1,2-Dibromoethane	ND		20	15	ug/L			10/22/19 00:28	20
1,2-Dichlorobenzene	ND		20	16	ug/L			10/22/19 00:28	20
1,2-Dichloroethane	ND		20	4.2	ug/L			10/22/19 00:28	20
1,2-Dichloropropane	ND		20	14	ug/L			10/22/19 00:28	20
1,3-Dichlorobenzene	ND		20	16	ug/L			10/22/19 00:28	20
1,4-Dichlorobenzene	ND		20	17	ug/L			10/22/19 00:28	20
2-Butanone (MEK)	ND		200	26	ug/L			10/22/19 00:28	20
2-Hexanone	ND		100	25	ug/L			10/22/19 00:28	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			10/22/19 00:28	20
Acetone	83 J		200	60	ug/L			10/22/19 00:28	20
Benzene	ND		20	8.2	ug/L			10/22/19 00:28	20
Bromodichloromethane	ND		20	7.8	ug/L			10/22/19 00:28	20
Bromoform	ND		20	5.2	ug/L			10/22/19 00:28	20
Bromomethane	ND		20	14	ug/L			10/22/19 00:28	20
Carbon disulfide	ND		20	3.8	ug/L			10/22/19 00:28	20
Carbon tetrachloride	ND		20	5.4	ug/L			10/22/19 00:28	20
Chlorobenzene	ND		20	15	ug/L			10/22/19 00:28	20
Chloroethane	ND		20	6.4	ug/L			10/22/19 00:28	20
Chloroform	ND		20	6.8	ug/L			10/22/19 00:28	20
Chloromethane	ND		20	7.0	ug/L			10/22/19 00:28	20
cis-1,2-Dichloroethene	73		20	16	ug/L			10/22/19 00:28	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			10/22/19 00:28	20
Cyclohexane	ND		20	3.6	ug/L			10/22/19 00:28	20
Dibromochloromethane	ND		20	6.4	ug/L			10/22/19 00:28	20
Dichlorodifluoromethane	ND		20	14	ug/L			10/22/19 00:28	20
Ethylbenzene	ND		20	15	ug/L			10/22/19 00:28	20
Isopropylbenzene	ND		20	16	ug/L			10/22/19 00:28	20
Methyl acetate	ND *		50	26	ug/L			10/22/19 00:28	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			10/22/19 00:28	20
Methylcyclohexane	ND		20	3.2	ug/L			10/22/19 00:28	20
Methylene Chloride	24		20	8.8	ug/L			10/22/19 00:28	20
Styrene	ND		20	15	ug/L			10/22/19 00:28	20
Tetrachloroethene	ND		20	7.2	ug/L			10/22/19 00:28	20
Toluene	13 J		20	10	ug/L			10/22/19 00:28	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			10/22/19 00:28	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			10/22/19 00:28	20
Trichloroethene	ND		20	9.2	ug/L			10/22/19 00:28	20
Trichlorofluoromethane	ND		20	18	ug/L			10/22/19 00:28	20
Vinyl chloride	20		20	18	ug/L			10/22/19 00:28	20
Xylenes, Total	ND		40	13	ug/L			10/22/19 00:28	20

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-1

Lab Sample ID: 480-160839-8

Date Collected: 10/14/19 14:00

Matrix: Water

Date Received: 10/14/19 16:30

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		10/22/19 00:28	20
4-Bromofluorobenzene (Surr)	99		73 - 120		10/22/19 00:28	20
Toluene-d8 (Surr)	100		80 - 120		10/22/19 00:28	20
Dibromofluoromethane (Surr)	106		75 - 123		10/22/19 00:28	20

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: DPE-2

Lab Sample ID: 480-160839-9

Date Collected: 10/14/19 14:18

Matrix: Water

Date Received: 10/14/19 16:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/23/19 14:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/23/19 14:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/23/19 14:51	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/23/19 14:51	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/23/19 14:51	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/23/19 14:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/23/19 14:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/23/19 14:51	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/23/19 14:51	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/23/19 14:51	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/23/19 14:51	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/23/19 14:51	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/23/19 14:51	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/23/19 14:51	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/23/19 14:51	1
2-Hexanone	ND		5.0	1.2	ug/L			10/23/19 14:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/23/19 14:51	1
Acetone	ND		10	3.0	ug/L			10/23/19 14:51	1
Benzene	ND		1.0	0.41	ug/L			10/23/19 14:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/23/19 14:51	1
Bromoform	ND		1.0	0.26	ug/L			10/23/19 14:51	1
Bromomethane	ND		1.0	0.69	ug/L			10/23/19 14:51	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/23/19 14:51	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/23/19 14:51	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/23/19 14:51	1
Chloroethane	ND		1.0	0.32	ug/L			10/23/19 14:51	1
Chloroform	ND		1.0	0.34	ug/L			10/23/19 14:51	1
Chloromethane	ND		1.0	0.35	ug/L			10/23/19 14:51	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/23/19 14:51	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/23/19 14:51	1
Cyclohexane	ND		1.0	0.18	ug/L			10/23/19 14:51	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/23/19 14:51	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/23/19 14:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/23/19 14:51	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/23/19 14:51	1
Methyl acetate	ND *		2.5	1.3	ug/L			10/23/19 14:51	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/23/19 14:51	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/23/19 14:51	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/23/19 14:51	1
Styrene	ND		1.0	0.73	ug/L			10/23/19 14:51	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/23/19 14:51	1
Toluene	ND		1.0	0.51	ug/L			10/23/19 14:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/23/19 14:51	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/23/19 14:51	1
Trichloroethene	ND		1.0	0.46	ug/L			10/23/19 14:51	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/23/19 14:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/23/19 14:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/23/19 14:51	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: DPE-2

Lab Sample ID: 480-160839-9

Date Collected: 10/14/19 14:18

Matrix: Water

Date Received: 10/14/19 16:30

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		10/23/19 14:51	1
4-Bromofluorobenzene (Surr)	108		73 - 120		10/23/19 14:51	1
Toluene-d8 (Surr)	107		80 - 120		10/23/19 14:51	1
Dibromofluoromethane (Surr)	110		75 - 123		10/23/19 14:51	1

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-160839-10

Date Collected: 10/14/19 00:00

Matrix: Water

Date Received: 10/14/19 16:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/22/19 01:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/22/19 01:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/22/19 01:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/22/19 01:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/22/19 01:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/22/19 01:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/22/19 01:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/22/19 01:17	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/22/19 01:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/22/19 01:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/22/19 01:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/22/19 01:17	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/22/19 01:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/22/19 01:17	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/22/19 01:17	1
2-Hexanone	ND		5.0	1.2	ug/L			10/22/19 01:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/22/19 01:17	1
Acetone	ND		10	3.0	ug/L			10/22/19 01:17	1
Benzene	ND		1.0	0.41	ug/L			10/22/19 01:17	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/22/19 01:17	1
Bromoform	ND		1.0	0.26	ug/L			10/22/19 01:17	1
Bromomethane	ND		1.0	0.69	ug/L			10/22/19 01:17	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/22/19 01:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/22/19 01:17	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/22/19 01:17	1
Chloroethane	ND		1.0	0.32	ug/L			10/22/19 01:17	1
Chloroform	ND		1.0	0.34	ug/L			10/22/19 01:17	1
Chloromethane	ND		1.0	0.35	ug/L			10/22/19 01:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/22/19 01:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/22/19 01:17	1
Cyclohexane	ND		1.0	0.18	ug/L			10/22/19 01:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/22/19 01:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/22/19 01:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/22/19 01:17	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/22/19 01:17	1
Methyl acetate	ND *		2.5	1.3	ug/L			10/22/19 01:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/22/19 01:17	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/22/19 01:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/22/19 01:17	1
Styrene	ND		1.0	0.73	ug/L			10/22/19 01:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/22/19 01:17	1
Toluene	ND		1.0	0.51	ug/L			10/22/19 01:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/22/19 01:17	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/22/19 01:17	1
Trichloroethene	ND		1.0	0.46	ug/L			10/22/19 01:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/22/19 01:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/22/19 01:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/22/19 01:17	1

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Client Sample Results

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: Trip Blank

Lab Sample ID: 480-160839-10

Date Collected: 10/14/19 00:00

Matrix: Water

Date Received: 10/14/19 16:30

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		10/22/19 01:17	1
4-Bromofluorobenzene (Surr)	103		73 - 120		10/22/19 01:17	1
Toluene-d8 (Surr)	106		80 - 120		10/22/19 01:17	1
Dibromofluoromethane (Surr)	112		75 - 123		10/22/19 01:17	1

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: Rinse Blank

Lab Sample ID: 480-160839-11

Date Collected: 10/14/19 15:30

Matrix: Water

Date Received: 10/14/19 16:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/22/19 01:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/22/19 01:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/22/19 01:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/22/19 01:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/22/19 01:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/22/19 01:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/22/19 01:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/22/19 01:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/22/19 01:41	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/22/19 01:41	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/22/19 01:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/22/19 01:41	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/22/19 01:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/22/19 01:41	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/22/19 01:41	1
2-Hexanone	ND		5.0	1.2	ug/L			10/22/19 01:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/22/19 01:41	1
Acetone	ND		10	3.0	ug/L			10/22/19 01:41	1
Benzene	ND		1.0	0.41	ug/L			10/22/19 01:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/22/19 01:41	1
Bromoform	ND		1.0	0.26	ug/L			10/22/19 01:41	1
Bromomethane	ND		1.0	0.69	ug/L			10/22/19 01:41	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/22/19 01:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/22/19 01:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/22/19 01:41	1
Chloroethane	ND		1.0	0.32	ug/L			10/22/19 01:41	1
Chloroform	ND		1.0	0.34	ug/L			10/22/19 01:41	1
Chloromethane	ND		1.0	0.35	ug/L			10/22/19 01:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/22/19 01:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/22/19 01:41	1
Cyclohexane	ND		1.0	0.18	ug/L			10/22/19 01:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/22/19 01:41	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/22/19 01:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/22/19 01:41	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/22/19 01:41	1
Methyl acetate	ND *		2.5	1.3	ug/L			10/22/19 01:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/22/19 01:41	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/22/19 01:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/22/19 01:41	1
Styrene	ND		1.0	0.73	ug/L			10/22/19 01:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/22/19 01:41	1
Toluene	ND		1.0	0.51	ug/L			10/22/19 01:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/22/19 01:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/22/19 01:41	1
Trichloroethene	ND		1.0	0.46	ug/L			10/22/19 01:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/22/19 01:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/22/19 01:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/22/19 01:41	1

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Client Sample Results

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: Rinse Blank

Lab Sample ID: 480-160839-11

Date Collected: 10/14/19 15:30

Matrix: Water

Date Received: 10/14/19 16:30

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	115		77 - 120		10/22/19 01:41	1
4-Bromofluorobenzene (Surr)	103		73 - 120		10/22/19 01:41	1
Toluene-d8 (Surr)	103		80 - 120		10/22/19 01:41	1
Dibromofluoromethane (Surr)	114		75 - 123		10/22/19 01:41	1

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: MW-8R

Lab Sample ID: 480-160850-1

Date Collected: 10/15/19 13:35

Matrix: Water

Date Received: 10/15/19 16:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/19/19 16:37	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/19/19 16:37	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			10/19/19 16:37	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/19/19 16:37	10
1,1-Dichloroethane	19		10	3.8	ug/L			10/19/19 16:37	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/19/19 16:37	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			10/19/19 16:37	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			10/19/19 16:37	10
1,2-Dibromoethane	ND		10	7.3	ug/L			10/19/19 16:37	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			10/19/19 16:37	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/19/19 16:37	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/19/19 16:37	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			10/19/19 16:37	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			10/19/19 16:37	10
2-Butanone (MEK)	30 J		100	13	ug/L			10/19/19 16:37	10
2-Hexanone	ND		50	12	ug/L			10/19/19 16:37	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			10/19/19 16:37	10
Acetone	40 J		100	30	ug/L			10/19/19 16:37	10
Benzene	ND		10	4.1	ug/L			10/19/19 16:37	10
Bromodichloromethane	ND		10	3.9	ug/L			10/19/19 16:37	10
Bromoform	ND		10	2.6	ug/L			10/19/19 16:37	10
Bromomethane	ND		10	6.9	ug/L			10/19/19 16:37	10
Carbon disulfide	ND		10	1.9	ug/L			10/19/19 16:37	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/19/19 16:37	10
Chlorobenzene	ND		10	7.5	ug/L			10/19/19 16:37	10
Chloroethane	24		10	3.2	ug/L			10/19/19 16:37	10
Chloroform	ND		10	3.4	ug/L			10/19/19 16:37	10
Chloromethane	ND		10	3.5	ug/L			10/19/19 16:37	10
cis-1,2-Dichloroethene	370		10	8.1	ug/L			10/19/19 16:37	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/19/19 16:37	10
Cyclohexane	ND		10	1.8	ug/L			10/19/19 16:37	10
Dibromochloromethane	ND		10	3.2	ug/L			10/19/19 16:37	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			10/19/19 16:37	10
Ethylbenzene	ND		10	7.4	ug/L			10/19/19 16:37	10
Isopropylbenzene	ND		10	7.9	ug/L			10/19/19 16:37	10
Methyl acetate	ND *		25	13	ug/L			10/19/19 16:37	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			10/19/19 16:37	10
Methylcyclohexane	ND		10	1.6	ug/L			10/19/19 16:37	10
Methylene Chloride	ND		10	4.4	ug/L			10/19/19 16:37	10
Styrene	ND		10	7.3	ug/L			10/19/19 16:37	10
Tetrachloroethene	ND		10	3.6	ug/L			10/19/19 16:37	10
Toluene	23		10	5.1	ug/L			10/19/19 16:37	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/19/19 16:37	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/19/19 16:37	10
Trichloroethene	ND		10	4.6	ug/L			10/19/19 16:37	10
Trichlorofluoromethane	ND		10	8.8	ug/L			10/19/19 16:37	10
Vinyl chloride	620		10	9.0	ug/L			10/19/19 16:37	10
Xylenes, Total	ND		20	6.6	ug/L			10/19/19 16:37	10

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Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: MW-8R

Date Collected: 10/15/19 13:35

Date Received: 10/15/19 16:50

Lab Sample ID: 480-160850-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		10/19/19 16:37	10
4-Bromofluorobenzene (Surr)	106		73 - 120		10/19/19 16:37	10
Toluene-d8 (Surr)	102		80 - 120		10/19/19 16:37	10
Dibromofluoromethane (Surr)	107		75 - 123		10/19/19 16:37	10

Method: RSK-175 - Dissolved Gases (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	58000		5000	1800	ug/L	-		10/17/19 13:50	1
Ethane	140	J	330	66	ug/L	-		10/17/19 19:55	44
Ethene	200	J	310	66	ug/L	-		10/17/19 19:55	44
Methane	9600		180	44	ug/L	-		10/17/19 19:55	44

Method: 200.7 Rev 4.4 - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	96.2	B	0.050	0.019	mg/L	-	10/18/19 06:44	10/19/19 03:13	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.86		0.050	0.019	mg/L	-	10/17/19 00:34	10/17/19 15:35	1

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.29	B ^	0.0030	0.00040	mg/L	-	10/16/19 13:22	10/17/19 12:31	1

Method: 6010C - Metals (ICP) - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.035		0.0030	0.00040	mg/L	-	10/17/19 07:31	10/17/19 13:25	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	11.8	J B	20.0	3.5	mg/L	-		10/22/19 22:54	10
Chloride	370		5.0	2.8	mg/L	-		10/22/19 22:54	10
Alkalinity, Total	733	B	80.0	32.0	mg/L	-		10/24/19 22:51	8
Ammonia	0.021		0.020	0.0090	mg/L	-		10/16/19 10:05	1
Nitrate as N	ND		0.050	0.020	mg/L	-		10/16/19 15:50	1
Nitrite as N	ND		0.050	0.020	mg/L	-		10/16/19 15:50	1
Chemical Oxygen Demand	373		20.0	10.0	mg/L	-		10/16/19 14:51	2
Total Organic Carbon	277		4.0	1.7	mg/L	-		10/18/19 10:47	4
Ferric Iron	96.0		0.10	0.075	mg/L	-		10/28/19 21:01	1
Ferrous Iron	0.19	HF	0.10	0.075	mg/L	-		10/27/19 11:40	1
Phosphorus	1.4		0.020	0.010	mg/L	-		10/23/19 11:20	2
Sulfide	ND		5.0	3.4	mg/L	-		10/17/19 14:03	1

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: MW-2

Lab Sample ID: 480-160850-2

Date Collected: 10/15/19 10:25

Matrix: Water

Date Received: 10/15/19 16:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/19/19 17:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/19/19 17:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/19/19 17:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/19/19 17:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/19/19 17:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/19/19 17:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/19/19 17:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/19/19 17:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/19/19 17:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/19/19 17:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/19/19 17:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/19/19 17:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/19/19 17:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/19/19 17:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/19/19 17:02	1
2-Hexanone	ND		5.0	1.2	ug/L			10/19/19 17:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/19/19 17:02	1
Acetone	ND		10	3.0	ug/L			10/19/19 17:02	1
Benzene	ND		1.0	0.41	ug/L			10/19/19 17:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/19/19 17:02	1
Bromoform	ND		1.0	0.26	ug/L			10/19/19 17:02	1
Bromomethane	ND		1.0	0.69	ug/L			10/19/19 17:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/19/19 17:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/19/19 17:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/19/19 17:02	1
Chloroethane	ND		1.0	0.32	ug/L			10/19/19 17:02	1
Chloroform	ND		1.0	0.34	ug/L			10/19/19 17:02	1
Chloromethane	ND		1.0	0.35	ug/L			10/19/19 17:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/19/19 17:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/19/19 17:02	1
Cyclohexane	ND		1.0	0.18	ug/L			10/19/19 17:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/19/19 17:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/19/19 17:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/19/19 17:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/19/19 17:02	1
Methyl acetate	ND *		2.5	1.3	ug/L			10/19/19 17:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/19/19 17:02	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/19/19 17:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/19/19 17:02	1
Styrene	ND		1.0	0.73	ug/L			10/19/19 17:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/19/19 17:02	1
Toluene	ND		1.0	0.51	ug/L			10/19/19 17:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/19/19 17:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/19/19 17:02	1
Trichloroethene	ND		1.0	0.46	ug/L			10/19/19 17:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/19/19 17:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/19/19 17:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/19/19 17:02	1

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Client Sample Results

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-2

Lab Sample ID: 480-160850-2

Date Collected: 10/15/19 10:25

Matrix: Water

Date Received: 10/15/19 16:50

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		10/19/19 17:02	1
4-Bromofluorobenzene (Surr)	101		73 - 120		10/19/19 17:02	1
Toluene-d8 (Surr)	100		80 - 120		10/19/19 17:02	1
Dibromofluoromethane (Surr)	108		75 - 123		10/19/19 17:02	1

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: MW-3

Lab Sample ID: 480-160850-3

Date Collected: 10/15/19 15:15

Matrix: Water

Date Received: 10/15/19 16:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/19/19 17:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/19/19 17:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/19/19 17:26	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/19/19 17:26	1
1,1-Dichloroethane	15		1.0	0.38	ug/L			10/19/19 17:26	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/19/19 17:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/19/19 17:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/19/19 17:26	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/19/19 17:26	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/19/19 17:26	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/19/19 17:26	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/19/19 17:26	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/19/19 17:26	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/19/19 17:26	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/19/19 17:26	1
2-Hexanone	ND		5.0	1.2	ug/L			10/19/19 17:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/19/19 17:26	1
Acetone	ND		10	3.0	ug/L			10/19/19 17:26	1
Benzene	ND		1.0	0.41	ug/L			10/19/19 17:26	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/19/19 17:26	1
Bromoform	ND		1.0	0.26	ug/L			10/19/19 17:26	1
Bromomethane	ND		1.0	0.69	ug/L			10/19/19 17:26	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/19/19 17:26	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/19/19 17:26	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/19/19 17:26	1
Chloroethane	1.8		1.0	0.32	ug/L			10/19/19 17:26	1
Chloroform	ND		1.0	0.34	ug/L			10/19/19 17:26	1
Chloromethane	ND		1.0	0.35	ug/L			10/19/19 17:26	1
cis-1,2-Dichloroethene	3.2		1.0	0.81	ug/L			10/19/19 17:26	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/19/19 17:26	1
Cyclohexane	ND		1.0	0.18	ug/L			10/19/19 17:26	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/19/19 17:26	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/19/19 17:26	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/19/19 17:26	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/19/19 17:26	1
Methyl acetate	ND *		2.5	1.3	ug/L			10/19/19 17:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/19/19 17:26	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/19/19 17:26	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/19/19 17:26	1
Styrene	ND		1.0	0.73	ug/L			10/19/19 17:26	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/19/19 17:26	1
Toluene	ND		1.0	0.51	ug/L			10/19/19 17:26	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/19/19 17:26	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/19/19 17:26	1
Trichloroethene	ND		1.0	0.46	ug/L			10/19/19 17:26	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/19/19 17:26	1
Vinyl chloride	34		1.0	0.90	ug/L			10/19/19 17:26	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/19/19 17:26	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-3

Lab Sample ID: 480-160850-3

Date Collected: 10/15/19 15:15

Matrix: Water

Date Received: 10/15/19 16:50

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		10/19/19 17:26	1
4-Bromofluorobenzene (Surr)	102		73 - 120		10/19/19 17:26	1
Toluene-d8 (Surr)	101		80 - 120		10/19/19 17:26	1
Dibromofluoromethane (Surr)	109		75 - 123		10/19/19 17:26	1

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: MW-11

Lab Sample ID: 480-160850-4

Date Collected: 10/15/19 11:10

Matrix: Water

Date Received: 10/15/19 16:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/19/19 17:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/19/19 17:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/19/19 17:50	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/19/19 17:50	1
1,1-Dichloroethane	0.82	J	1.0	0.38	ug/L			10/19/19 17:50	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/19/19 17:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/19/19 17:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/19/19 17:50	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/19/19 17:50	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/19/19 17:50	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/19/19 17:50	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/19/19 17:50	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/19/19 17:50	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/19/19 17:50	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/19/19 17:50	1
2-Hexanone	ND		5.0	1.2	ug/L			10/19/19 17:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/19/19 17:50	1
Acetone	ND		10	3.0	ug/L			10/19/19 17:50	1
Benzene	ND		1.0	0.41	ug/L			10/19/19 17:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/19/19 17:50	1
Bromoform	ND		1.0	0.26	ug/L			10/19/19 17:50	1
Bromomethane	ND		1.0	0.69	ug/L			10/19/19 17:50	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/19/19 17:50	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/19/19 17:50	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/19/19 17:50	1
Chloroethane	ND		1.0	0.32	ug/L			10/19/19 17:50	1
Chloroform	ND		1.0	0.34	ug/L			10/19/19 17:50	1
Chloromethane	ND		1.0	0.35	ug/L			10/19/19 17:50	1
cis-1,2-Dichloroethene	1.9		1.0	0.81	ug/L			10/19/19 17:50	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/19/19 17:50	1
Cyclohexane	ND		1.0	0.18	ug/L			10/19/19 17:50	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/19/19 17:50	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/19/19 17:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/19/19 17:50	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/19/19 17:50	1
Methyl acetate	ND *		2.5	1.3	ug/L			10/19/19 17:50	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/19/19 17:50	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/19/19 17:50	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/19/19 17:50	1
Styrene	ND		1.0	0.73	ug/L			10/19/19 17:50	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/19/19 17:50	1
Toluene	ND		1.0	0.51	ug/L			10/19/19 17:50	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/19/19 17:50	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/19/19 17:50	1
Trichloroethene	ND		1.0	0.46	ug/L			10/19/19 17:50	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/19/19 17:50	1
Vinyl chloride	1.9		1.0	0.90	ug/L			10/19/19 17:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/19/19 17:50	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-11

Lab Sample ID: 480-160850-4

Date Collected: 10/15/19 11:10

Matrix: Water

Date Received: 10/15/19 16:50

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		10/19/19 17:50	1
4-Bromofluorobenzene (Surr)	102		73 - 120		10/19/19 17:50	1
Toluene-d8 (Surr)	99		80 - 120		10/19/19 17:50	1
Dibromofluoromethane (Surr)	104		75 - 123		10/19/19 17:50	1

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: MW-13D

Lab Sample ID: 480-160850-5

Date Collected: 10/15/19 12:29

Matrix: Water

Date Received: 10/15/19 16:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/19/19 18:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/19/19 18:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/19/19 18:15	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/19/19 18:15	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/19/19 18:15	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/19/19 18:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/19/19 18:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/19/19 18:15	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/19/19 18:15	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/19/19 18:15	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/19/19 18:15	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/19/19 18:15	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/19/19 18:15	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/19/19 18:15	1
2-Butanone (MEK)	2.2	J	10	1.3	ug/L			10/19/19 18:15	1
2-Hexanone	ND		5.0	1.2	ug/L			10/19/19 18:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/19/19 18:15	1
Acetone	12		10	3.0	ug/L			10/19/19 18:15	1
Benzene	ND		1.0	0.41	ug/L			10/19/19 18:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/19/19 18:15	1
Bromoform	ND		1.0	0.26	ug/L			10/19/19 18:15	1
Bromomethane	ND		1.0	0.69	ug/L			10/19/19 18:15	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/19/19 18:15	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/19/19 18:15	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/19/19 18:15	1
Chloroethane	4.5		1.0	0.32	ug/L			10/19/19 18:15	1
Chloroform	ND		1.0	0.34	ug/L			10/19/19 18:15	1
Chloromethane	ND		1.0	0.35	ug/L			10/19/19 18:15	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/19/19 18:15	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/19/19 18:15	1
Cyclohexane	ND		1.0	0.18	ug/L			10/19/19 18:15	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/19/19 18:15	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/19/19 18:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/19/19 18:15	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/19/19 18:15	1
Methyl acetate	ND *		2.5	1.3	ug/L			10/19/19 18:15	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/19/19 18:15	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/19/19 18:15	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/19/19 18:15	1
Styrene	ND		1.0	0.73	ug/L			10/19/19 18:15	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/19/19 18:15	1
Toluene	1.2		1.0	0.51	ug/L			10/19/19 18:15	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/19/19 18:15	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/19/19 18:15	1
Trichloroethene	ND		1.0	0.46	ug/L			10/19/19 18:15	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/19/19 18:15	1
Vinyl chloride	2.9		1.0	0.90	ug/L			10/19/19 18:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/19/19 18:15	1

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Client Sample Results

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-13D

Lab Sample ID: 480-160850-5

Date Collected: 10/15/19 12:29

Matrix: Water

Date Received: 10/15/19 16:50

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		10/19/19 18:15	1
4-Bromofluorobenzene (Surr)	105		73 - 120		10/19/19 18:15	1
Toluene-d8 (Surr)	103		80 - 120		10/19/19 18:15	1
Dibromofluoromethane (Surr)	108		75 - 123		10/19/19 18:15	1

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: Duplicate

Lab Sample ID: 480-160850-6

Date Collected: 10/15/19 11:15

Matrix: Water

Date Received: 10/15/19 16:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/19/19 18:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/19/19 18:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/19/19 18:39	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/19/19 18:39	1
1,1-Dichloroethane	0.78	J	1.0	0.38	ug/L			10/19/19 18:39	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/19/19 18:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/19/19 18:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/19/19 18:39	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/19/19 18:39	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/19/19 18:39	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/19/19 18:39	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/19/19 18:39	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/19/19 18:39	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/19/19 18:39	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/19/19 18:39	1
2-Hexanone	ND		5.0	1.2	ug/L			10/19/19 18:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/19/19 18:39	1
Acetone	ND		10	3.0	ug/L			10/19/19 18:39	1
Benzene	ND		1.0	0.41	ug/L			10/19/19 18:39	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/19/19 18:39	1
Bromoform	ND		1.0	0.26	ug/L			10/19/19 18:39	1
Bromomethane	ND		1.0	0.69	ug/L			10/19/19 18:39	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/19/19 18:39	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/19/19 18:39	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/19/19 18:39	1
Chloroethane	ND		1.0	0.32	ug/L			10/19/19 18:39	1
Chloroform	ND		1.0	0.34	ug/L			10/19/19 18:39	1
Chloromethane	ND		1.0	0.35	ug/L			10/19/19 18:39	1
cis-1,2-Dichloroethene	1.9		1.0	0.81	ug/L			10/19/19 18:39	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/19/19 18:39	1
Cyclohexane	ND		1.0	0.18	ug/L			10/19/19 18:39	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/19/19 18:39	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/19/19 18:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/19/19 18:39	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/19/19 18:39	1
Methyl acetate	ND *		2.5	1.3	ug/L			10/19/19 18:39	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/19/19 18:39	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/19/19 18:39	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/19/19 18:39	1
Styrene	ND		1.0	0.73	ug/L			10/19/19 18:39	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/19/19 18:39	1
Toluene	ND		1.0	0.51	ug/L			10/19/19 18:39	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/19/19 18:39	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/19/19 18:39	1
Trichloroethene	ND		1.0	0.46	ug/L			10/19/19 18:39	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/19/19 18:39	1
Vinyl chloride	2.1		1.0	0.90	ug/L			10/19/19 18:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/19/19 18:39	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: Duplicate

Lab Sample ID: 480-160850-6

Date Collected: 10/15/19 11:15

Matrix: Water

Date Received: 10/15/19 16:50

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		10/19/19 18:39	1
4-Bromofluorobenzene (Surr)	104		73 - 120		10/19/19 18:39	1
Toluene-d8 (Surr)	102		80 - 120		10/19/19 18:39	1
Dibromofluoromethane (Surr)	106		75 - 123		10/19/19 18:39	1

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: MW-4

Lab Sample ID: 480-161048-1

Date Collected: 10/17/19 12:45

Matrix: Water

Date Received: 10/17/19 17:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			10/25/19 01:45	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			10/25/19 01:45	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			10/25/19 01:45	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			10/25/19 01:45	4
1,1-Dichloroethane	2.7	J	4.0	1.5	ug/L			10/25/19 01:45	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			10/25/19 01:45	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			10/25/19 01:45	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			10/25/19 01:45	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			10/25/19 01:45	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			10/25/19 01:45	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			10/25/19 01:45	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			10/25/19 01:45	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			10/25/19 01:45	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			10/25/19 01:45	4
2-Butanone (MEK)	100		40	5.3	ug/L			10/25/19 01:45	4
2-Hexanone	10	J	20	5.0	ug/L			10/25/19 01:45	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			10/25/19 01:45	4
Acetone	86		40	12	ug/L			10/25/19 01:45	4
Benzene	ND		4.0	1.6	ug/L			10/25/19 01:45	4
Bromodichloromethane	ND		4.0	1.6	ug/L			10/25/19 01:45	4
Bromoform	ND		4.0	1.0	ug/L			10/25/19 01:45	4
Bromomethane	ND		4.0	2.8	ug/L			10/25/19 01:45	4
Carbon disulfide	ND		4.0	0.76	ug/L			10/25/19 01:45	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			10/25/19 01:45	4
Chlorobenzene	ND		4.0	3.0	ug/L			10/25/19 01:45	4
Chloroethane	120		4.0	1.3	ug/L			10/25/19 01:45	4
Chloroform	ND		4.0	1.4	ug/L			10/25/19 01:45	4
Chloromethane	ND		4.0	1.4	ug/L			10/25/19 01:45	4
cis-1,2-Dichloroethene	4.6		4.0	3.2	ug/L			10/25/19 01:45	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			10/25/19 01:45	4
Cyclohexane	ND		4.0	0.72	ug/L			10/25/19 01:45	4
Dibromochloromethane	ND		4.0	1.3	ug/L			10/25/19 01:45	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			10/25/19 01:45	4
Ethylbenzene	ND		4.0	3.0	ug/L			10/25/19 01:45	4
Isopropylbenzene	ND		4.0	3.2	ug/L			10/25/19 01:45	4
Methyl acetate	ND		10	5.2	ug/L			10/25/19 01:45	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			10/25/19 01:45	4
Methylcyclohexane	ND		4.0	0.64	ug/L			10/25/19 01:45	4
Methylene Chloride	ND		4.0	1.8	ug/L			10/25/19 01:45	4
Styrene	ND		4.0	2.9	ug/L			10/25/19 01:45	4
Tetrachloroethene	ND		4.0	1.4	ug/L			10/25/19 01:45	4
Toluene	8.3		4.0	2.0	ug/L			10/25/19 01:45	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			10/25/19 01:45	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			10/25/19 01:45	4
Trichloroethene	ND		4.0	1.8	ug/L			10/25/19 01:45	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			10/25/19 01:45	4
Vinyl chloride	14		4.0	3.6	ug/L			10/25/19 01:45	4
Xylenes, Total	ND		8.0	2.6	ug/L			10/25/19 01:45	4

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: MW-4

Date Collected: 10/17/19 12:45

Date Received: 10/17/19 17:15

Lab Sample ID: 480-161048-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					10/25/19 01:45	4
4-Bromofluorobenzene (Surr)	104		73 - 120					10/25/19 01:45	4
Toluene-d8 (Surr)	100		80 - 120					10/25/19 01:45	4
Dibromofluoromethane (Surr)	104		75 - 123					10/25/19 01:45	4

Method: RSK-175 - Dissolved Gases (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	87000		5000	1800	ug/L	-		10/23/19 14:08	1
Ethane	160	J	660	130	ug/L	-		10/20/19 22:44	88
Ethene	ND		620	130	ug/L	-		10/20/19 22:44	88
Methane	7900		350	88	ug/L	-		10/20/19 22:44	88

Method: 200.7 Rev 4.4 - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	36.9		0.050	0.019	mg/L	-	10/19/19 11:12	10/21/19 23:01	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.9	B	0.050	0.019	mg/L	-	10/24/19 08:08	10/24/19 18:13	1

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.16		0.0030	0.00040	mg/L	-	10/18/19 06:54	10/18/19 16:38	1

Method: 6010C - Metals (ICP) - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.14	B	0.0030	0.00040	mg/L	-	10/24/19 08:08	10/24/19 18:58	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	466		5.0	2.8	mg/L	-		10/24/19 12:42	10
Sulfate	19.1	J	20.0	3.5	mg/L	-		10/24/19 12:42	10
Alkalinity, Total	986		100	40.0	mg/L	-		10/25/19 21:27	10
Ammonia	0.069	F1	0.020	0.0090	mg/L	-		10/21/19 12:28	1
Nitrate as N	0.095		0.050	0.020	mg/L	-		10/18/19 15:49	1
Nitrite as N	ND		0.050	0.020	mg/L	-		10/18/19 15:49	1
Total Organic Carbon	310		10.0	4.3	mg/L	-		10/23/19 04:11	10
Ferric Iron	36.9		0.10	0.075	mg/L	-		10/28/19 21:03	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L	-		10/27/19 11:40	1
Sulfide	2.0		1.0	0.67	mg/L	-		10/23/19 10:03	1

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: MW-16D

Lab Sample ID: 480-161048-2

Date Collected: 10/17/19 11:05

Matrix: Water

Date Received: 10/17/19 17:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/25/19 02:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/25/19 02:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/25/19 02:09	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/25/19 02:09	1
1,1-Dichloroethane	1.3		1.0	0.38	ug/L			10/25/19 02:09	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/25/19 02:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/25/19 02:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/25/19 02:09	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/25/19 02:09	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/25/19 02:09	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/25/19 02:09	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/25/19 02:09	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/25/19 02:09	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/25/19 02:09	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/25/19 02:09	1
2-Hexanone	ND		5.0	1.2	ug/L			10/25/19 02:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/25/19 02:09	1
Acetone	4.0	J	10	3.0	ug/L			10/25/19 02:09	1
Benzene	ND		1.0	0.41	ug/L			10/25/19 02:09	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/25/19 02:09	1
Bromoform	ND		1.0	0.26	ug/L			10/25/19 02:09	1
Bromomethane	ND		1.0	0.69	ug/L			10/25/19 02:09	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/25/19 02:09	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/25/19 02:09	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/25/19 02:09	1
Chloroethane	76		1.0	0.32	ug/L			10/25/19 02:09	1
Chloroform	ND		1.0	0.34	ug/L			10/25/19 02:09	1
Chloromethane	0.39	J	1.0	0.35	ug/L			10/25/19 02:09	1
cis-1,2-Dichloroethene	1.8		1.0	0.81	ug/L			10/25/19 02:09	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/25/19 02:09	1
Cyclohexane	ND		1.0	0.18	ug/L			10/25/19 02:09	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/25/19 02:09	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/25/19 02:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/25/19 02:09	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/25/19 02:09	1
Methyl acetate	ND		2.5	1.3	ug/L			10/25/19 02:09	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/25/19 02:09	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/25/19 02:09	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/25/19 02:09	1
Styrene	ND		1.0	0.73	ug/L			10/25/19 02:09	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/25/19 02:09	1
Toluene	ND		1.0	0.51	ug/L			10/25/19 02:09	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/25/19 02:09	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/25/19 02:09	1
Trichloroethene	ND		1.0	0.46	ug/L			10/25/19 02:09	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/25/19 02:09	1
Vinyl chloride	2.3		1.0	0.90	ug/L			10/25/19 02:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/25/19 02:09	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: MW-16D

Lab Sample ID: 480-161048-2

Date Collected: 10/17/19 11:05

Matrix: Water

Date Received: 10/17/19 17:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		10/25/19 02:09	1
4-Bromofluorobenzene (Surr)	103		73 - 120		10/25/19 02:09	1
Toluene-d8 (Surr)	99		80 - 120		10/25/19 02:09	1
Dibromofluoromethane (Surr)	106		75 - 123		10/25/19 02:09	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	21000		5000	1800	ug/L	-		10/23/19 14:16	1
Ethane	390	J	830	170	ug/L	-		10/20/19 23:03	110
Ethene	ND		770	170	ug/L	-		10/20/19 23:03	110
Methane	10000		440	110	ug/L	-		10/20/19 23:03	110

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3.9		0.050	0.019	mg/L	-	10/19/19 11:12	10/21/19 23:05	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.085	B	0.050	0.019	mg/L	-	10/24/19 08:08	10/24/19 18:32	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.010		0.0030	0.00040	mg/L	-	10/18/19 06:54	10/18/19 16:42	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0078	B	0.0030	0.00040	mg/L	-	10/24/19 08:08	10/24/19 19:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	219		2.5	1.4	mg/L	-		10/24/19 12:50	5
Sulfate	ND		10.0	1.7	mg/L	-		10/24/19 12:50	5
Alkalinity, Total	302		40.0	16.0	mg/L	-		10/25/19 21:27	4
Ammonia	2.3		0.040	0.018	mg/L	-		10/21/19 12:23	2
Nitrate as N	0.033	J	0.050	0.020	mg/L	-		10/18/19 12:53	1
Nitrite as N	ND		0.050	0.020	mg/L	-		10/18/19 12:53	1
Total Organic Carbon	3.2		1.0	0.43	mg/L	-		10/23/19 06:33	1
Ferric Iron	3.9		0.10	0.075	mg/L	-		10/28/19 21:03	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L	-		10/27/19 11:40	1
Sulfide	ND		1.0	0.67	mg/L	-		10/23/19 10:03	1

Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: MW-16S

Lab Sample ID: 480-161146-1

Date Collected: 10/17/19 14:15

Matrix: Water

Date Received: 10/18/19 16:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1000	820	ug/L			10/27/19 03:21	1000
1,1,2,2-Tetrachloroethane	ND		1000	210	ug/L			10/27/19 03:21	1000
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1000	310	ug/L			10/27/19 03:21	1000
1,1,2-Trichloroethane	ND		1000	230	ug/L			10/27/19 03:21	1000
1,1-Dichloroethane	620	J	1000	380	ug/L			10/27/19 03:21	1000
1,1-Dichloroethene	ND		1000	290	ug/L			10/27/19 03:21	1000
1,2,4-Trichlorobenzene	ND		1000	410	ug/L			10/27/19 03:21	1000
1,2-Dibromo-3-Chloropropane	ND		1000	390	ug/L			10/27/19 03:21	1000
1,2-Dibromoethane	ND		1000	730	ug/L			10/27/19 03:21	1000
1,2-Dichlorobenzene	ND		1000	790	ug/L			10/27/19 03:21	1000
1,2-Dichloroethane	ND		1000	210	ug/L			10/27/19 03:21	1000
1,2-Dichloropropane	ND		1000	720	ug/L			10/27/19 03:21	1000
1,3-Dichlorobenzene	ND		1000	780	ug/L			10/27/19 03:21	1000
1,4-Dichlorobenzene	ND		1000	840	ug/L			10/27/19 03:21	1000
2-Butanone (MEK)	ND		10000	1300	ug/L			10/27/19 03:21	1000
2-Hexanone	ND		5000	1200	ug/L			10/27/19 03:21	1000
4-Methyl-2-pentanone (MIBK)	ND		5000	2100	ug/L			10/27/19 03:21	1000
Acetone	ND		10000	3000	ug/L			10/27/19 03:21	1000
Benzene	ND		1000	410	ug/L			10/27/19 03:21	1000
Bromodichloromethane	ND		1000	390	ug/L			10/27/19 03:21	1000
Bromoform	ND		1000	260	ug/L			10/27/19 03:21	1000
Bromomethane	ND		1000	690	ug/L			10/27/19 03:21	1000
Carbon disulfide	ND		1000	190	ug/L			10/27/19 03:21	1000
Carbon tetrachloride	ND		1000	270	ug/L			10/27/19 03:21	1000
Chlorobenzene	ND		1000	750	ug/L			10/27/19 03:21	1000
Chloroethane	1100		1000	320	ug/L			10/27/19 03:21	1000
Chloroform	ND		1000	340	ug/L			10/27/19 03:21	1000
Chloromethane	ND		1000	350	ug/L			10/27/19 03:21	1000
cis-1,2-Dichloroethene	14000		1000	810	ug/L			10/27/19 03:21	1000
cis-1,3-Dichloropropene	ND		1000	360	ug/L			10/27/19 03:21	1000
Cyclohexane	ND		1000	180	ug/L			10/27/19 03:21	1000
Dibromochloromethane	ND		1000	320	ug/L			10/27/19 03:21	1000
Dichlorodifluoromethane	ND		1000	680	ug/L			10/27/19 03:21	1000
Ethylbenzene	ND		1000	740	ug/L			10/27/19 03:21	1000
Isopropylbenzene	ND		1000	790	ug/L			10/27/19 03:21	1000
Methyl acetate	ND		2500	1300	ug/L			10/27/19 03:21	1000
Methyl tert-butyl ether	ND		1000	160	ug/L			10/27/19 03:21	1000
Methylcyclohexane	ND		1000	160	ug/L			10/27/19 03:21	1000
Methylene Chloride	670	J	1000	440	ug/L			10/27/19 03:21	1000
Styrene	ND		1000	730	ug/L			10/27/19 03:21	1000
Tetrachloroethene	ND		1000	360	ug/L			10/27/19 03:21	1000
Toluene	540	J	1000	510	ug/L			10/27/19 03:21	1000
trans-1,2-Dichloroethene	ND		1000	900	ug/L			10/27/19 03:21	1000
trans-1,3-Dichloropropene	ND		1000	370	ug/L			10/27/19 03:21	1000
Trichloroethene	ND		1000	460	ug/L			10/27/19 03:21	1000
Trichlorofluoromethane	ND		1000	880	ug/L			10/27/19 03:21	1000
Vinyl chloride	32000		1000	900	ug/L			10/27/19 03:21	1000
Xylenes, Total	ND		2000	660	ug/L			10/27/19 03:21	1000

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Client Sample Results

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: MW-16S

Lab Sample ID: 480-161146-1

Date Collected: 10/17/19 14:15

Matrix: Water

Date Received: 10/18/19 16:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		77 - 120		10/27/19 03:21	1000
4-Bromofluorobenzene (Surr)	106		73 - 120		10/27/19 03:21	1000
Toluene-d8 (Surr)	106		80 - 120		10/27/19 03:21	1000
Dibromofluoromethane (Surr)	114		75 - 123		10/27/19 03:21	1000

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	66000		5000	1800	ug/L	-		10/23/19 17:22	1
Ethane	280	J	660	130	ug/L	-		10/21/19 01:15	88
Ethene	14000		620	130	ug/L	-		10/21/19 01:15	88
Methane	12000		350	88	ug/L	-		10/21/19 01:15	88

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	141		0.050	0.019	mg/L	-	10/22/19 09:39	10/22/19 23:21	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	42.5	B	0.050	0.019	mg/L	-	10/24/19 08:08	10/24/19 18:36	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.23		0.0030	0.00040	mg/L	-	10/21/19 10:16	10/21/19 20:05	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.26	B	0.0030	0.00040	mg/L	-	10/24/19 08:08	10/25/19 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	810		5.0	2.8	mg/L	-		10/25/19 15:39	10
Sulfate	16.1	J	20.0	3.5	mg/L	-		10/25/19 15:39	10
Alkalinity, Total	443	B	50.0	20.0	mg/L	-		10/26/19 00:03	5
Ammonia	0.55		0.020	0.0090	mg/L	-		10/21/19 12:31	1
Total Organic Carbon	316		10.0	4.3	mg/L	-		10/23/19 03:43	10
Ferric Iron	136		0.10	0.075	mg/L	-		11/04/19 13:16	1
Ferrous Iron	4.7	HF	0.50	0.38	mg/L	-		11/03/19 11:00	5
Sulfide	ND		1.0	0.67	mg/L	-		10/23/19 10:03	1

Client Sample Results

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Client Sample ID: MW-16S

Lab Sample ID: 480-161146-2

Date Collected: 10/18/19 08:40

Matrix: Water

Date Received: 10/18/19 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050		0.050	0.020	mg/L			10/19/19 13:06	1
Nitrite as N	0.11	B	0.050	0.020	mg/L			10/19/19 13:06	1

Lab Chronicle

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: DPE-3

Date Collected: 10/14/19 14:25

Date Received: 10/14/19 16:30

Lab Sample ID: 480-160839-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	499242	10/21/19 22:02	BTP	TAL BUF

Client Sample ID: DPE-4

Date Collected: 10/14/19 14:12

Date Received: 10/14/19 16:30

Lab Sample ID: 480-160839-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	499242	10/21/19 22:26	BTP	TAL BUF

Client Sample ID: DPE-5

Date Collected: 10/14/19 14:05

Date Received: 10/14/19 16:30

Lab Sample ID: 480-160839-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	499242	10/21/19 22:51	BTP	TAL BUF

Client Sample ID: DPE-6

Date Collected: 10/14/19 13:55

Date Received: 10/14/19 16:30

Lab Sample ID: 480-160839-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	499242	10/21/19 23:15	BTP	TAL BUF

Client Sample ID: DPE-7

Date Collected: 10/14/19 14:35

Date Received: 10/14/19 16:30

Lab Sample ID: 480-160839-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	499242	10/21/19 23:39	BTP	TAL BUF

Client Sample ID: DPE-8

Date Collected: 10/14/19 14:45

Date Received: 10/14/19 16:30

Lab Sample ID: 480-160839-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	498884	10/19/19 05:23	BTP	TAL BUF

Client Sample ID: GWCT

Date Collected: 10/14/19 12:15

Date Received: 10/14/19 16:30

Lab Sample ID: 480-160839-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	499242	10/22/19 00:04	BTP	TAL BUF

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Lab Chronicle

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: DPE-1

Date Collected: 10/14/19 14:00

Date Received: 10/14/19 16:30

Lab Sample ID: 480-160839-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	499242	10/22/19 00:28	BTP	TAL BUF

Client Sample ID: DPE-2

Date Collected: 10/14/19 14:18

Date Received: 10/14/19 16:30

Lab Sample ID: 480-160839-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	499600	10/23/19 14:51	BTP	TAL BUF

Client Sample ID: Trip Blank

Date Collected: 10/14/19 00:00

Date Received: 10/14/19 16:30

Lab Sample ID: 480-160839-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	499242	10/22/19 01:17	BTP	TAL BUF

Client Sample ID: Rinse Blank

Date Collected: 10/14/19 15:30

Date Received: 10/14/19 16:30

Lab Sample ID: 480-160839-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	499242	10/22/19 01:41	BTP	TAL BUF

Client Sample ID: MW-8R

Date Collected: 10/15/19 13:35

Date Received: 10/15/19 16:50

Lab Sample ID: 480-160850-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	498989	10/19/19 16:37	OMI	TAL BUF
Total/NA	Analysis	RSK-175		1	148569	10/17/19 13:50	MLT	TAL BUR
Total/NA	Analysis	RSK-175		44	498615	10/17/19 19:55	DSC	TAL BUF
Dissolved	Filtration	FILTRATION			498315	10/16/19 09:42	JLC	TAL BUF
Dissolved	Prep	200.7			498395	10/17/19 00:34	JAL	TAL BUF
Dissolved	Analysis	200.7 Rev 4.4		1	498823	10/17/19 15:35	EMB	TAL BUF
Total/NA	Prep	200.7			498661	10/18/19 06:44	JLC	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	499008	10/19/19 03:13	EMB	TAL BUF
Dissolved	Filtration	FILTRATION			498315	10/16/19 09:42	JLC	TAL BUF
Dissolved	Prep	3005A			498393	10/17/19 07:31	JAL	TAL BUF
Dissolved	Analysis	6010C		1	498807	10/17/19 13:25	AMH	TAL BUF
Total/NA	Prep	3005A			498333	10/16/19 13:22	JLC	TAL BUF
Total/NA	Analysis	6010C		1	498677	10/17/19 12:31	AMH	TAL BUF
Total/NA	Analysis	300.0		10	499443	10/22/19 22:54	IMZ	TAL BUF
Total/NA	Analysis	310.2		8	500112	10/24/19 22:51	SRW	TAL BUF
Total/NA	Analysis	350.1		1	498323	10/16/19 10:05	CLT	TAL BUF
Total/NA	Analysis	353.2		1	498466	10/16/19 15:50	BEF	TAL BUF

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Lab Chronicle

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: MW-8R

Date Collected: 10/15/19 13:35

Date Received: 10/15/19 16:50

Lab Sample ID: 480-160850-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	498471	10/16/19 15:50	BEF	TAL BUF
Total/NA	Analysis	410.4		2	498548	10/16/19 14:51	CSS	TAL BUF
Total/NA	Analysis	9060A		4	498890	10/18/19 10:47	CLA	TAL BUF
Total/NA	Analysis	SM 3500		1	500791	10/28/19 21:01	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	500639	10/27/19 11:40	MDL	TAL BUF
Total/NA	Analysis	SM 4500 P E		2	499694	10/23/19 11:20	RP	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	498696	10/17/19 14:03	JRF	TAL BUF

Client Sample ID: MW-2

Date Collected: 10/15/19 10:25

Date Received: 10/15/19 16:50

Lab Sample ID: 480-160850-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	498989	10/19/19 17:02	OMI	TAL BUF

Client Sample ID: MW-3

Date Collected: 10/15/19 15:15

Date Received: 10/15/19 16:50

Lab Sample ID: 480-160850-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	498989	10/19/19 17:26	OMI	TAL BUF

Client Sample ID: MW-11

Date Collected: 10/15/19 11:10

Date Received: 10/15/19 16:50

Lab Sample ID: 480-160850-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	498989	10/19/19 17:50	OMI	TAL BUF

Client Sample ID: MW-13D

Date Collected: 10/15/19 12:29

Date Received: 10/15/19 16:50

Lab Sample ID: 480-160850-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	498989	10/19/19 18:15	OMI	TAL BUF

Client Sample ID: Duplicate

Date Collected: 10/15/19 11:15

Date Received: 10/15/19 16:50

Lab Sample ID: 480-160850-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	498989	10/19/19 18:39	OMI	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: MW-4

Lab Sample ID: 480-161048-1

Date Collected: 10/17/19 12:45

Matrix: Water

Date Received: 10/17/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	500023	10/25/19 01:45	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	148826	10/23/19 14:08	MLT	TAL BUR
Total/NA	Analysis	RSK-175		88	499083	10/20/19 22:44	DSC	TAL BUF
Dissolved	Filtration	FILTRATION			499487	10/22/19 14:22	NSW	TAL BUF
Dissolved	Prep	200.7			499843	10/24/19 08:08	NSW	TAL BUF
Dissolved	Analysis	200.7 Rev 4.4		1	500144	10/24/19 18:13	AMH	TAL BUF
Total/NA	Prep	200.7			498927	10/19/19 11:12	JLC	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	499343	10/21/19 23:01	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			499487	10/22/19 14:22	NSW	TAL BUF
Dissolved	Prep	3005A			499844	10/24/19 08:08	NSW	TAL BUF
Dissolved	Analysis	6010C		1	500145	10/24/19 18:58	AMH	TAL BUF
Total/NA	Prep	3005A			498751	10/18/19 06:54	KMP	TAL BUF
Total/NA	Analysis	6010C		1	499015	10/18/19 16:38	LMH	TAL BUF
Total/NA	Analysis	300.0		10	499811	10/24/19 12:42	IMZ	TAL BUF
Total/NA	Analysis	310.2		10	500787	10/25/19 21:27	SRW	TAL BUF
Total/NA	Analysis	350.1		1	499239	10/21/19 12:28	CLT	TAL BUF
Total/NA	Analysis	353.2		1	498945	10/18/19 15:49	RLM	TAL BUF
Total/NA	Analysis	353.2		1	499037	10/18/19 15:49	RLM	TAL BUF
Total/NA	Analysis	9060A		10	499775	10/23/19 04:11	CLA	TAL BUF
Total/NA	Analysis	SM 3500		1	500791	10/28/19 21:03	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	500639	10/27/19 11:40	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	499761	10/23/19 10:03	JRF	TAL BUF

Client Sample ID: MW-16D

Lab Sample ID: 480-161048-2

Date Collected: 10/17/19 11:05

Matrix: Water

Date Received: 10/17/19 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	500023	10/25/19 02:09	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	148826	10/23/19 14:16	MLT	TAL BUR
Total/NA	Analysis	RSK-175		110	499083	10/20/19 23:03	DSC	TAL BUF
Dissolved	Filtration	FILTRATION			499487	10/22/19 14:22	NSW	TAL BUF
Dissolved	Prep	200.7			499843	10/24/19 08:08	NSW	TAL BUF
Dissolved	Analysis	200.7 Rev 4.4		1	500144	10/24/19 18:32	AMH	TAL BUF
Total/NA	Prep	200.7			498927	10/19/19 11:12	JLC	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	499343	10/21/19 23:05	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			499487	10/22/19 14:22	NSW	TAL BUF
Dissolved	Prep	3005A			499844	10/24/19 08:08	NSW	TAL BUF
Dissolved	Analysis	6010C		1	500145	10/24/19 19:02	AMH	TAL BUF
Total/NA	Prep	3005A			498751	10/18/19 06:54	KMP	TAL BUF
Total/NA	Analysis	6010C		1	499015	10/18/19 16:42	LMH	TAL BUF
Total/NA	Analysis	300.0		5	499811	10/24/19 12:50	IMZ	TAL BUF
Total/NA	Analysis	310.2		4	500787	10/25/19 21:27	SRW	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Client Sample ID: MW-16D

Date Collected: 10/17/19 11:05

Date Received: 10/17/19 17:15

Lab Sample ID: 480-161048-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		2	499239	10/21/19 12:23	CLT	TAL BUF
Total/NA	Analysis	353.2		1	499037	10/18/19 12:53	RLM	TAL BUF
Total/NA	Analysis	353.2		1	499038	10/18/19 12:53	RLM	TAL BUF
Total/NA	Analysis	9060A		1	499775	10/23/19 06:33	CLA	TAL BUF
Total/NA	Analysis	SM 3500		1	500791	10/28/19 21:03	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	500639	10/27/19 11:40	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	499761	10/23/19 10:03	JRF	TAL BUF

Client Sample ID: MW-16S

Date Collected: 10/17/19 14:15

Date Received: 10/18/19 16:30

Lab Sample ID: 480-161146-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1000	500429	10/27/19 03:21	BTP	TAL BUF
Total/NA	Analysis	RSK-175		1	148826	10/23/19 17:22	MLT	TAL BUR
Total/NA	Analysis	RSK-175		88	499083	10/21/19 01:15	DSC	TAL BUF
Dissolved	Filtration	FILTRATION			499487	10/22/19 14:22	NSW	TAL BUF
Dissolved	Prep	200.7			499843	10/24/19 08:08	NSW	TAL BUF
Dissolved	Analysis	200.7 Rev 4.4		1	500144	10/24/19 18:36	AMH	TAL BUF
Total/NA	Prep	200.7			499378	10/22/19 09:39	NSW	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	499649	10/22/19 23:21	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			499487	10/22/19 14:22	NSW	TAL BUF
Dissolved	Prep	3005A			499844	10/24/19 08:08	NSW	TAL BUF
Dissolved	Analysis	6010C		1	500381	10/25/19 11:03	AMH	TAL BUF
Total/NA	Prep	3005A			499078	10/21/19 10:16	NSW	TAL BUF
Total/NA	Analysis	6010C		1	499340	10/21/19 20:05	LMH	TAL BUF
Total/NA	Analysis	300.0		10	500081	10/25/19 15:39	IMZ	TAL BUF
Total/NA	Analysis	310.2		5	500787	10/26/19 00:03	SRW	TAL BUF
Total/NA	Analysis	350.1		1	499239	10/21/19 12:31	CLT	TAL BUF
Total/NA	Analysis	9060A		10	499775	10/23/19 03:43	CLA	TAL BUF
Total/NA	Analysis	SM 3500		1	502156	11/04/19 13:16	LMH	TAL BUF
Total/NA	Analysis	SM 3500 FE D		5	502079	11/03/19 11:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	499761	10/23/19 10:03	JRF	TAL BUF

Client Sample ID: MW-16S

Date Collected: 10/18/19 08:40

Date Received: 10/18/19 16:30

Lab Sample ID: 480-161146-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	499029	10/19/19 13:06	RLM	TAL BUF
Total/NA	Analysis	353.2		1	499047	10/19/19 13:06	RLM	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: AECOM
Project/Site: Scott Figgie West of Plant 2

Job ID: 480-160839-1

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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Accreditation/Certification Summary

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
SM 3500		Water	Ferric Iron
SM 3500 FE D		Water	Ferrous Iron

Laboratory: Eurofins TestAmerica, Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-20
Connecticut	State	PH-0751	09-30-21
Connecticut	State Program	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-15-20
Florida	NELAP	E87467	06-30-20
Minnesota	NELAP	050-999-436	12-31-19
New Hampshire	NELAP	2006	12-18-19
New Jersey	NELAP	VT972	06-30-20
New York	NELAP	10391	03-31-20
Pennsylvania	NELAP	68-00489	04-30-20
Rhode Island	State	LAO00298	12-30-19
Rhode Island	State Program	LAO00298	12-30-19
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00272	08-09-20
Vermont	State	VT4000	12-31-19
Virginia	NELAP	460209	12-14-19

Method Summary

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUR
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 3500	Iron, Ferric	SM	TAL BUF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	TAL BUF
SM 4500 S2 F	Sulfide, Total	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
FILTRATION	Sample Filtration	None	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: AECOM

Job ID: 480-160839-1

Project/Site: Scott Figgie West of Plant 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-160839-1	DPE-3	Water	10/14/19 14:25	10/14/19 16:30	
480-160839-2	DPE-4	Water	10/14/19 14:12	10/14/19 16:30	
480-160839-3	DPE-5	Water	10/14/19 14:05	10/14/19 16:30	
480-160839-4	DPE-6	Water	10/14/19 13:55	10/14/19 16:30	
480-160839-5	DPE-7	Water	10/14/19 14:35	10/14/19 16:30	
480-160839-6	DPE-8	Water	10/14/19 14:45	10/14/19 16:30	
480-160839-7	GWCT	Water	10/14/19 12:15	10/14/19 16:30	
480-160839-8	DPE-1	Water	10/14/19 14:00	10/14/19 16:30	
480-160839-9	DPE-2	Water	10/14/19 14:18	10/14/19 16:30	
480-160839-10	Trip Blank	Water	10/14/19 00:00	10/14/19 16:30	
480-160839-11	Rinse Blank	Water	10/14/19 15:30	10/14/19 16:30	
480-160850-1	MW-8R	Water	10/15/19 13:35	10/15/19 16:50	
480-160850-2	MW-2	Water	10/15/19 10:25	10/15/19 16:50	
480-160850-3	MW-3	Water	10/15/19 15:15	10/15/19 16:50	
480-160850-4	MW-11	Water	10/15/19 11:10	10/15/19 16:50	
480-160850-5	MW-13D	Water	10/15/19 12:29	10/15/19 16:50	
480-160850-6	Duplicate	Water	10/15/19 11:15	10/15/19 16:50	
480-161048-1	MW-4	Water	10/17/19 12:45	10/17/19 17:15	
480-161048-2	MW-16D	Water	10/17/19 11:05	10/17/19 17:15	
480-161146-1	MW-16S	Water	10/17/19 14:15	10/18/19 16:30	
480-161146-2	MW-16S	Water	10/18/19 08:40	10/18/19 16:30	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-160839-1

Login Number: 160839

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Harper, Marcus D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-160839-1

Login Number: 160850

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-160839-1

Login Number: 160850

List Number: 2

Creator: McNabb, Robert W

List Source: Eurofins TestAmerica, Burlington

List Creation: 10/17/19 12:41 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	975021
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	2.4°C
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	Received project as a subcontract.
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-160839-1

Login Number: 161048

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Harper, Marcus D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-160839-1

Login Number: 161048

List Number: 2

Creator: McNabb, Robert W

List Source: Eurofins TestAmerica, Burlington

List Creation: 10/22/19 03:23 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	975044
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	2.4°C
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	Received project as a subcontract.
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	N/A
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	N/A
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-160839-1

Login Number: 161146

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-160839-1

Login Number: 161146

List Number: 2

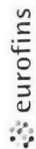
Creator: McNabb, Robert W

List Source: Eurofins TestAmerica, Burlington

List Creation: 10/23/19 03:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	975060
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.2°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Chain of Custody Record



Client Information		Lab PM: Fischer, Brian J		Carrier Tracking No(s): 480-136117-3450.2	
Company: AECOM		E-Mail: brian.fischer@testamericainc.com		Page: Page 2 of 2	
Sample: S. Connolly/E.A.		Phone: (716) 393-0870		COC No: 480-136117-3450.2	
Address: 257 West Genesee Street Suite 400 Buffalo NY, 14202-2657		TAT Requested (days): Standard		Job #:	
Project Name: Scott Aviation site		Purchase Order not requir		Analysis Requested	
Site: New York		WO #:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Chloric Acid H - TSP Dodecahydrate I - Acetone J - MCAA K - pH 4-5 L - other (specify)	
PO #:		Due Date Requested:			
Project #: 48002539		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
SSOW#:		Matrix (Water, Seawater, Oil, etc.)		Special Instructions/Note:	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Total Number
DPE-3	10/14/19	1425	G	Water	N N 3
DPE-4		1412	G	Water	N N 3
DPE-5		1405	G	Water	N N 3
DPE-6		1355	G	Water	N N 3
DPE-7		1435	G	Water	N N 3
DPE-8		1445	G	Water	N N 3
GWCT		1215	G	Water	N N 3
DPE-1		1400	G	Water	N N 3
DPE-2		1418	G	Water	N N 3
Trip Blank		-	G	Water	N N 2
Rinse Blank		1530	B	Water	N N 3
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify) per contract					
Empty Kit Relinquished by: Relinquished by: <i>[Signature]</i> Date/Time: 10/14/19 1630 Company: AECOM Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements:					
Custody Seal No.: Custody Seals intact: ☒ Yes ☐ No Cooler Temperature(s) °C and Other Remarks:					

Chain of Custody Record

[illegible]

Chain of Custody Record

Client Information		Sampler: <u>Emily A. Fischer, Brian J</u>		Lab PM: <u>Fischer, Brian J</u>		Carrier Tracking No(s):		COC No: 480-136115-27848.1	
Client Contact: Mr. Dino Zack		Phone: <u>716 531 3312</u>		E-Mail: <u>brian.fischer@testamericainc.com</u>		Page: Page 1 of 1		Job #:	
Company: AECOM		Address: 257 West Genesee Street Suite 400		City: Buffalo		State, Zip: NY, 14202-2657		Phone: <u>716 531 3312</u>	
Email: <u>dino.zack@aecom.com</u>		WO #: 60538931		Project #: 48002539		SSOW#:		Site: New York	
Project Name: Scott Figgie West of Plant 2 - MNA		Due Date Requested:		TAT Requested (days):		PO #:		WO #:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=Water, S=Soil, O=Other)	
MW-4	10/17/19	1245	6	Water					
MW-5				Water					
MW-6				Water					
MW-7				Water					
MW-16D	10/17/19	1105	6	Water					
Possible Hazard Identification		Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐		Deliverable Requested: I, II, III, IV, Other (specify) <u>per contract</u>		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months	
Empty Kit Relinquished by: <u>Emily A. Fischer</u>		Date: 10/17/19		Time: 1710		Company: AECOM		Relinquished by: <u>Emily A. Fischer</u>	
Relinquished by: <u>Emily A. Fischer</u>		Date: 10/17/19		Time: 1715		Company: AECOM		Relinquished by: <u>Emily A. Fischer</u>	
Relinquished by: <u>Emily A. Fischer</u>		Date: 10/17/19		Time: 1715		Company: AECOM		Relinquished by: <u>Emily A. Fischer</u>	
Custody Seal No.: <u>3.6 R#1104</u>		Custody Seal Intact: <u>Yes</u>		Cooler Temperature(s) °C and Other Remarks: <u>3.6 R#1104</u>		Special Instructions/Note:		Special Instructions/Note:	



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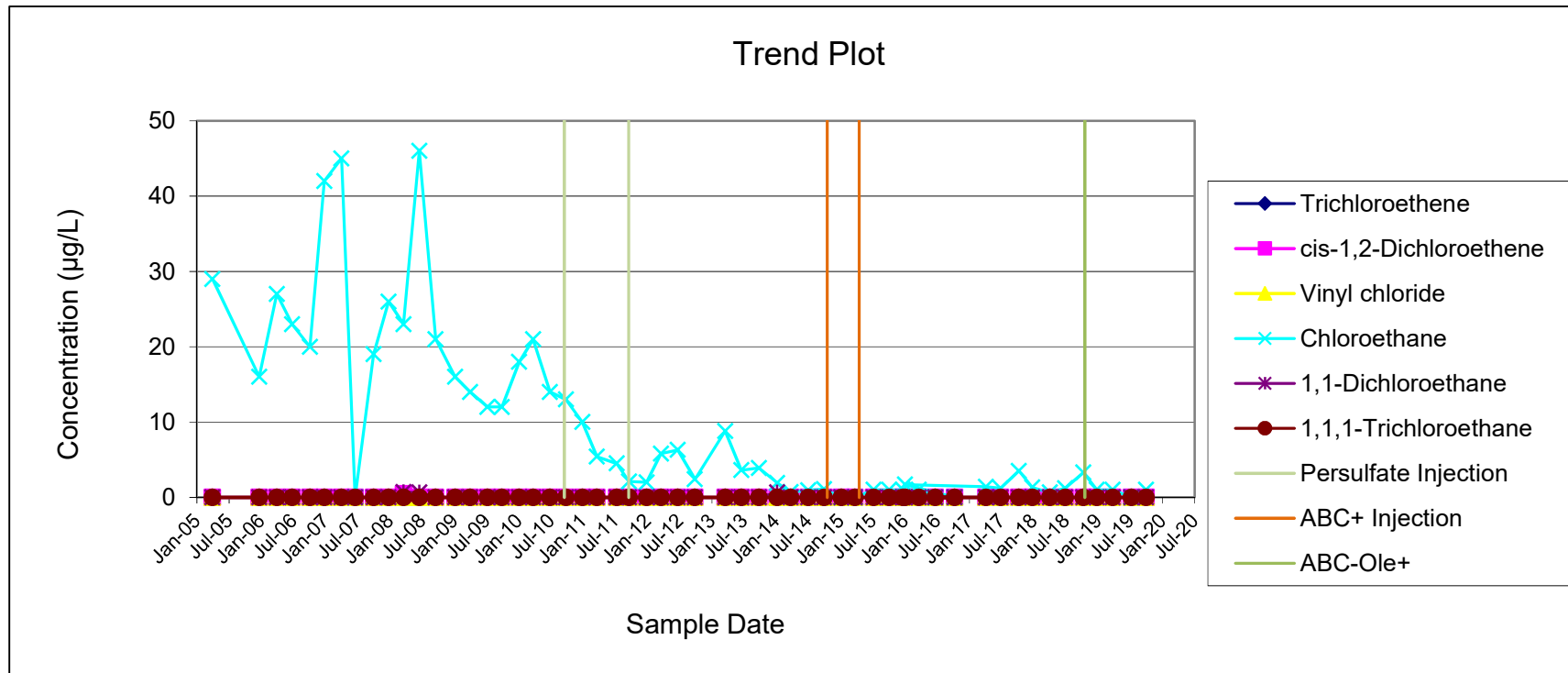
Appendix D

Current and Historical Summary of VOCs in Groundwater

MONITORING WELL MW-2
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/14/2005	< 10	< 10	< 10	29	< 10	<10
1/5/2006	< 25	< 25	< 25	16	< 25	< 25
4/14/2006	< 25	< 25	< 25	27	< 25	< 25
7/10/2006	< 25	< 25	< 25	23	< 25	< 25
10/19/2006	< 5	< 5	< 5	20	< 5	< 5
1/9/2007	< 5	< 5	< 5	42	< 5	< 5
4/16/2007	< 20	< 20	< 20	45	< 20	< 20
7/2/2007	< 5	< 5	< 5	< 5	< 5	< 5
10/15/2007	< 5	< 5	< 5	19	< 5	< 5
1/8/2008	< 5	< 5	< 5	26	< 5	< 5
4/2/2008	< 5	0.48	< 5	23	1	< 5
7/1/2008	< 5	< 5	< 5	46	0.65	< 5
10/1/2008	< 5	< 5	< 5	21	<5	< 5
1/20/2009	< 5	< 5	< 5	16	<5	< 5
4/15/2009	< 5	< 5	< 5	14	<5	< 5
7/22/2009	< 5	< 5	< 5	12	<5	< 5
10/12/2009	< 5	< 5	< 5	12	<5	< 5
1/18/2010	< 25	< 25	< 25	18	< 25	< 25
4/7/2010	< 25	< 25	< 25	21	< 25	< 25
7/12/2010	< 25	< 25	< 25	14	< 25	< 25
10/11/2010	< 25	< 25	< 25	13	< 25	< 25
1/12/2011	<1	<1	<1	10	<1	<1
4/4/2011	<1	<1	<1	5.4	<1	<1
7/25/2011	<1	<1	<1	4.5	<1	<1
10/3/2011	<1	<1	<1	2.1	<1	<1
1/11/2012	<1	<1	<1	2	<1	<1
4/2/2012	<1	<1	<1	5.8	<1	<1
7/5/2012	<1	<1	<1	6.3	<1	<1
10/11/2012	<1	<1	<1	2.4	<1	<1
4/1/2013	<1	<1	<1	8.8	<1	<1
7/1/2013	<1	<1	<1	3.6	<1	<1
10/9/2013	<1	<1	<1	3.9	<1	<1
1/21/2014	<1	<1	<1	1.9	0.67	<1
4/7/2014	<1	<1	<1	0.68	<1	<1
7/16/2014	<1	<1	<1	0.94	<1	<1
10/14/2014	<1	<1	<1	1.1	<1	<1
1/20/2015	<5	<5	<5	<5	<5	<5
4/7/2015	<5	<5	<5	<5	<5	<5
7/22/2015	<1	<1	<1	1	<1	<1
10/19/2015	<1	<1	<1	1	<1	<1
1/5/2016	<1	<1	<1	1	<1	<1
4/4/2016	<1	<1	<1	1	<1	<1
7/5/2016	<1	<1	<1	<1	<1	<1
10/24/2016	<1	<1	<1	<1	<1	<1
1/17/2016	<1	<1	<1	1.7	<1	<1
4/20/2017	<1	<1	<1	1.4	<1	<1
7/12/2017	<1	<1	<1	1.2	<1	<1
10/23/2017	<1	<1	<1	3.5	<1	<1
1/8/2018	<1	<1	<1	1.3	<1	<1
4/17/2018	<1	<1	<1	0.65	<1	<1
7/13/2018	<1	<1	<1	1.2	<1	<1
10/24/2018	<1	<1	<1	3.3	<1	<1
1/9/2019	<1	<1	<1	1	<1	<1
4/8/2019	<1	<1	<1	1	<1	<1
7/23/2019	<2	<2	<2	<2	<2	<2
10/15/2019	<1	<1	<1	1	<1	<1

MONITORING WELL MW-2
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

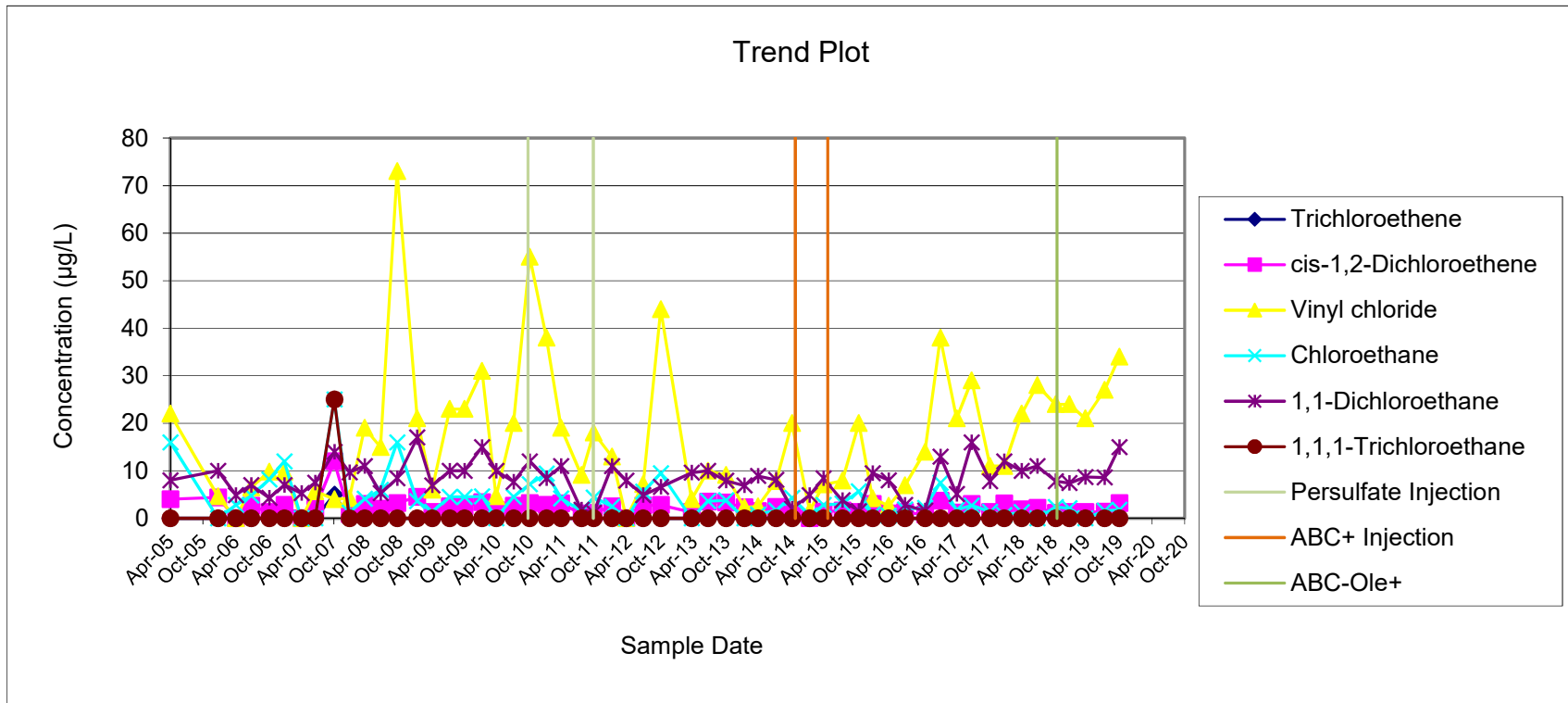


Note TCE data from 10/11/10 was reported in error as 350 µg/L and cis-1,2-DCE was reported as 25 µg/L.

MONITORING WELL MW-3
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/14/2005	< 10	4	22	16	8	<10
1/5/2006	< 25	4.4	4.6	< 25	10	< 25
4/14/2006	< 25	< 25	< 25	2.8	4.9	< 25
7/10/2006	< 25	2.6	6.5	4.8	7	< 25
10/18/2006	< 5	1.3	9.8	8.2	4.3	< 5
1/10/2007	< 5	2.8	9.8	12	7	< 5
4/16/2007	< 20	< 20	< 20	< 20	5.3	< 20
7/2/2007	< 5	2	5.7	< 5	7.5	< 5
10/17/2007	5	12	4	25	14	25
1/9/2008	< 5	0.9	4.2	1.2	9.7	<5
4/3/2008	<5	3	19	4.1	11	<5
7/1/2008	<5	2	15	6	5.3	<5
10/1/2008	<5	3.2	73	16	8.4	<5
1/21/2009	<5	4.5	21	3.6	17	<5
4/15/2009	<5	1.3	6	1.4	6.9	<5
7/22/2009	<5	2.5	23	4.5	10	<5
10/12/2009	<5	2.5	23	4.5	10	<5
1/18/2010	<5	3.4	31	4.6	15	<5
4/7/2010	<5	1.7	4.6	<5	10	<5
7/13/2010	<5	2.6	20	4.5	7.7	<5
10/11/2010	<5	3.2	55	7.2	12	<5
1/12/2011	<1	2.8	38	9.4	8.4	<1
4/4/2011	<1	3.1	19	4.2	11	<1
7/26/2011	<1	0.98	9.1	1.5	1.8	<1
10/3/2011	<1	1.1	18	4.4	1.2	<1
1/13/2012	<1	2.5	13	2.5	11	<1
4/2/2012	<1	<1	<1	<1	7.9	<1
7/5/2012	<1	2.7	7.2	5.6	4.9	<1
10/11/2012	<1	2.8	44	9.5	6.6	<1
4/1/2013	<1	1.3	4	<1	9.6	<1
7/1/2013	<1	3.5	10	3.6	10	<1
10/10/2013	<1	3.3	9.1	3.8	7.9	<1
1/21/2014	<1	2.3	2.3	<1	6.9	<1
4/7/2014	<1	1.5	2.5	0.82	8.9	<1
7/17/2014	<1	2.4	7.8	1.7	8.1	<1
10/14/2014	<1	0.93	20	4.3	2	<1
1/20/2015	<1	<1	1.5	0.64	4.9	<1
4/7/2015	<1	1.4	7.1	2.8	8.4	<1
7/22/2015	<1	1.6	7.9	3.1	3.8	<1
10/21/2015	<1	1.3	20	5.7	1.5	<1
1/6/2016	<1	3	4.2	0.83	9.5	<1
4/5/2016	<1	0.98	2.6	0.58	8	<1
7/5/2016	<1	1.3	6.9	1.9	2.8	<1
10/25/2016	<1	0.81	14	2.2	1.6	<1
1/19/2017	<1	3.7	38	7.5	13	<1
4/20/2017	<1	1.2	21	1.8	5.1	<1
7/12/2017	<1	3.0	29	2.7	16	<1
10/23/2017	<1	1.3	11	1.4	7.8	<1
1/10/2018	<1	3.1	11	0.72	12	<1
4/17/2018	<1	1.9	22	1.3	10	<1
7/13/2018	<1	2.2	28	<1	11	<1
10/24/2018	<1	1.1	24	2.4	7.8	<1
1/9/2019	<1	1.3	24	2.1	7.4	<1
4/8/2019	<1	1.3	21	<1	8.7	<1
7/24/2019	<1	1.4	27	1.6	8.6	<1
10/15/2019	<1	3.2	34	1.8	15	<1

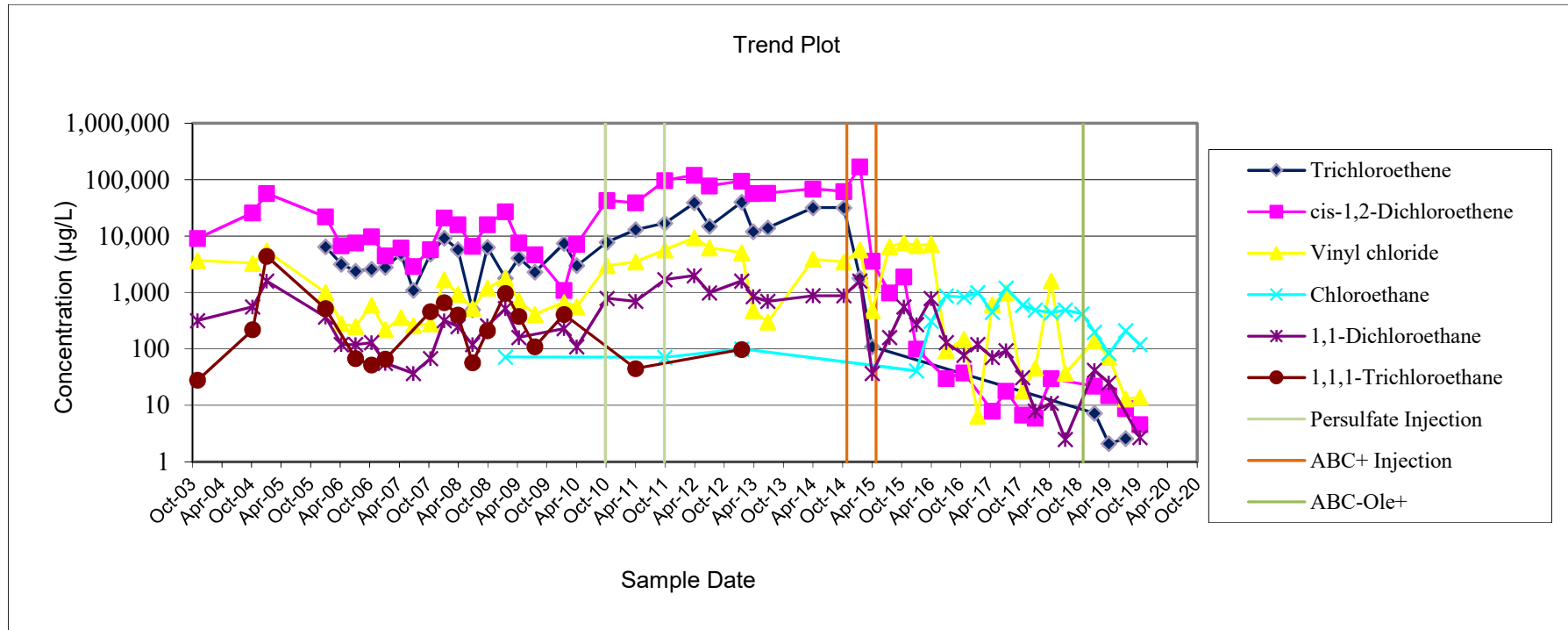
MONITORING WELL MW-3
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-4
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
11/7/2003	270	9,100	3,700	< 10	320	28
10/13/2004	8,100	26,000	3,300	< 1000	560	220
1/7/2005	20,000	57,000	5,500	< 2000	1,600	4,400
1/6/2006	6,500	22,000	1,000	< 2000	370	520
4/14/2006	3,200	6,800	280	<500	120	<500
7/10/2006	2,400	7,600	250	<500	120	68
10/18/2006	2,600	9,800	600	<5	130	52
1/10/2007	2,800	4,500	220	<400	56	66
4/17/2007	4,900	6,200	360	<500	<500	<500
7/3/2007	1,100	2,900	260	<200	37	<200
10/17/2007	4,800	5,800	280	<500	68	460
1/9/2008	9,200	21,000	1,700	<500	320	660
4/3/2008	5,800	16,000	940	<1200	250	400
7/2/2008	500	6,600	530	<500	120	57
10/2/2008	6,300	16,000	1,200	<500	260	210
1/22/2009	1,800	27,000	1,800	72	520	970
4/15/2009	4,100	7,600	710	<200	160	380
7/22/2009	2,300	4,700	410	<250	<250	110
1/19/2010	7,400	1,100	670	<1000	230	410
4/8/2010	3,000	7,200	560	<500	110	<500
10/11/2010	7,800	43,000	3,000	<4,000	790	<4,000
4/6/2011	13,000	39,000	3,500	<40	700	45
10/4/2011	17,000	97,000	5,700	71	1700	<1
4/3/2012	39,000	120,000	9,400	<200	2000	<200
7/6/2012	15,000	78,000	6,200	<1000	990	<1000
1/21/2013	40,000	95,000	5,100	100	1600	98
4/2/2013	12,000	57,000	480	<40	850	<40
7/1/2013	14,000	58,000	300	<100	700	<100
4/7/2014	32,000	69,000	3,900	<1000	880	<1000
10/14/2014	32,000	62,000	3,500	<1000	880	<1000
1/21/2015	1,800	170,000	5700	<1,000	1,600	<1000
4/7/2015	110	3,600	480	<80	37	<80
7/23/2015	<100	990	6500	<100	160	<100
10/20/2015	<100	1,900	7600	<100	560	<100
1/6/2016	<100	100	6800	41	270	<100
4/6/2016	<100	<100	7200	310	790	<100
7/8/2016	<20	30	95	870	130	<20
10/25/2016	<20	38	150	830	78	<20
1/19/2017	<20	<20	7	1,000	120	<20
4/18/2017	<5	8	610	450	71	<5
7/13/2017	<20	18	1,000	1,200	93	<20
10/23/2017	<20	7	18	600	31	<20
1/8/2018	<5	6	46	490	8	<5
4/17/2018	<20	30	1,600	440	11	<20
7/13/2018	<5	<5	37	490	2.5	<5
10/24/2018	<20	<20	<20	420	<20	<20
1/10/2019	7.3	22	140	200	42	<4
4/8/2019	2.1	15	71	84	25	<4
7/22/2019	2.6	9	13	210	<4	<4
10/17/2019	<4	4.6	14	120	2.7	<4

MONITORING WELL MW-4
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York



Note: LNAPL was present in MW-4 during the October 2004 and January 2005 groundwater sampling events.

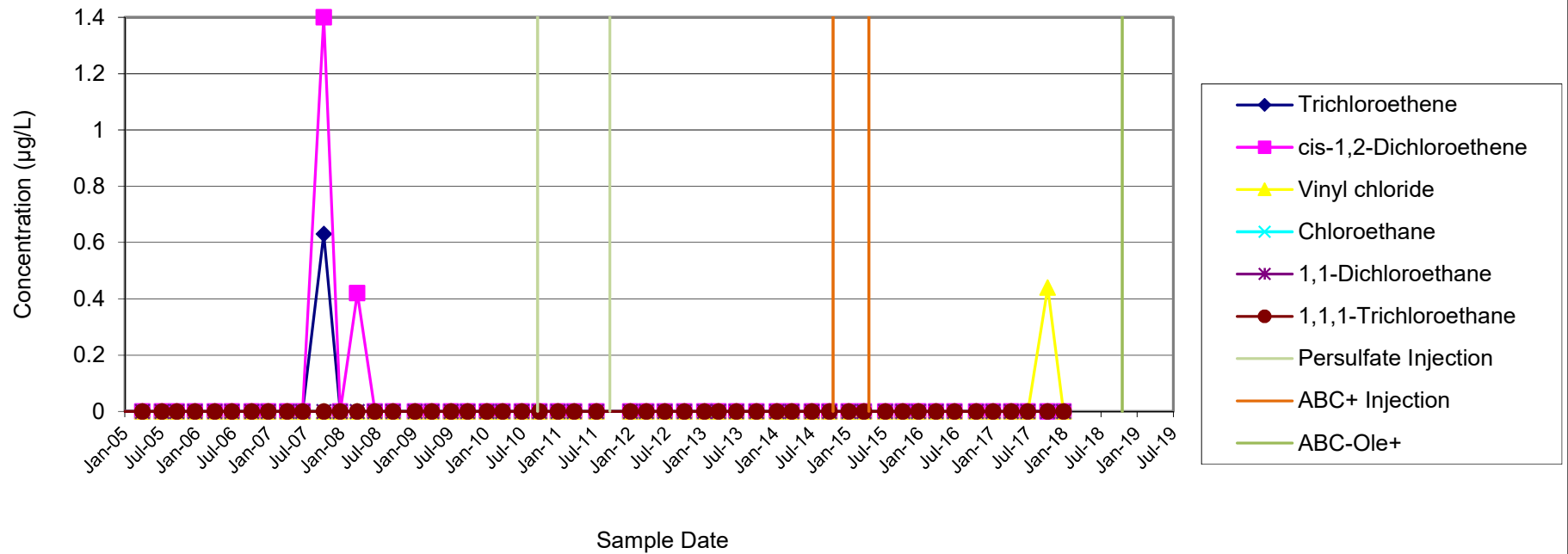
MONITORING WELL MW-6
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
11/7/2003	< 10	< 10	< 10	< 10	< 10	< 6
10/12/2004	< 10	< 10	< 10	< 10	< 10	< 10
1/6/2005	< 10	< 10	< 10	< 10	< 10	< 10
4/14/2005	< 10	< 10	< 10	< 10	< 10	< 10
7/21/2005	< 5	< 5	< 5	< 5	< 5	< 5
10/4/2005	< 5	< 5	< 5	< 5	< 5	< 5
1/5/2006	< 5	< 5	< 5	< 5	< 5	< 5
4/14/2006	< 5	< 5	< 5	< 5	< 5	< 5
7/10/2006	< 5	< 5	< 5	< 5	< 5	< 5
10/18/2006	< 5	< 5	< 5	< 5	< 5	< 5
1/10/2007	< 5	< 5	< 5	< 5	< 5	< 5
4/16/2007	< 5	< 5	< 5	< 5	< 5	< 5
7/2/2007	< 5	< 5	< 5	< 5	< 5	< 5
10/17/2007	0.63	1.4	< 5	< 5	< 5	< 5
1/8/2008	<5	<5	<5	< 5	< 5	< 5
4/3/2008	<5	0.42	<5	<5	<5	<5
7/1/2008	<5	<5	<5	<5	<5	<5
10/1/2008	<5	<5	<5	<5	<5	<5
1/20/2009	<5	<5	<5	<5	<5	<5
4/15/2009	<5	<5	<5	<5	<5	<5
7/21/2009	<5	<5	<5	<5	<5	<5
10/13/2009	<5	<5	<5	<5	<5	<5
1/18/2010	<5	<5	<5	<5	<5	<5
4/7/2010	<5	<5	<5	<5	<5	<5
7/13/2010	<5	<5	<5	<5	<5	<5
10/11/2010	<5	<5	<5	<5	<5	<5
1/12/2011	<1	<1	<1	<1	<1	<1
4/4/2011	<1	<1	<1	<1	<1	<1
7/26/2011	<1	<1	<1	<1	<1	<1
1/12/2012	<1	<1	<1	<1	<1	<1
4/2/2012	<1	<1	<1	<1	<1	<1
7/5/2012	<1	<1	<1	<1	<1	<1
10/11/2012	<1	<1	<1	<1	<1	<1
1/21/2013	<1	<1	<1	<1	<1	<1
4/1/2013	<1	<1	<1	<1	<1	<1
7/1/2013	<1	<1	<1	<1	<1	<1
10/10/2013	<1	<1	<1	<1	<1	<1
1/22/2014	<1	<1	<1	<1	<1	<1
4/7/2014	<1	<1	<1	<1	<1	<1
7/17/2014	<1	<1	<1	<1	<1	<1
10/14/2014	<1	<1	<1	<1	<1	<1
1/20/2015	<1	<1	<1	<1	<1	<1
4/6/2015	<1	<1	<1	<1	<1	<1
7/23/2015	<1	<1	<1	<1	<1	<1
10/19/2015	<1	<1	<1	<1	<1	<1
1/6/2016	<1	<1	<1	<1	<1	<1
4/4/2016	<1	<1	<1	<1	<1	<1
7/7/2016	<1	<1	<1	<1	<1	<1
10/24/2016	<1	<1	<1	<1	<1	<1
1/17/2017	<1	<1	<1	<1	<1	<1
4/19/2017	<1	<1	<1	<1	<1	<1
7/12/2017	<1	<1	<1	<1	<1	<1
10/20/2017	<1	<1	0.44	<1	<1	<1
1/8/2018	<1	<1	<1	<1	<1	<1

Note well was decommissioned following the January 2018 sampling event.

MONITORING WELL MW-6
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Trend Plot

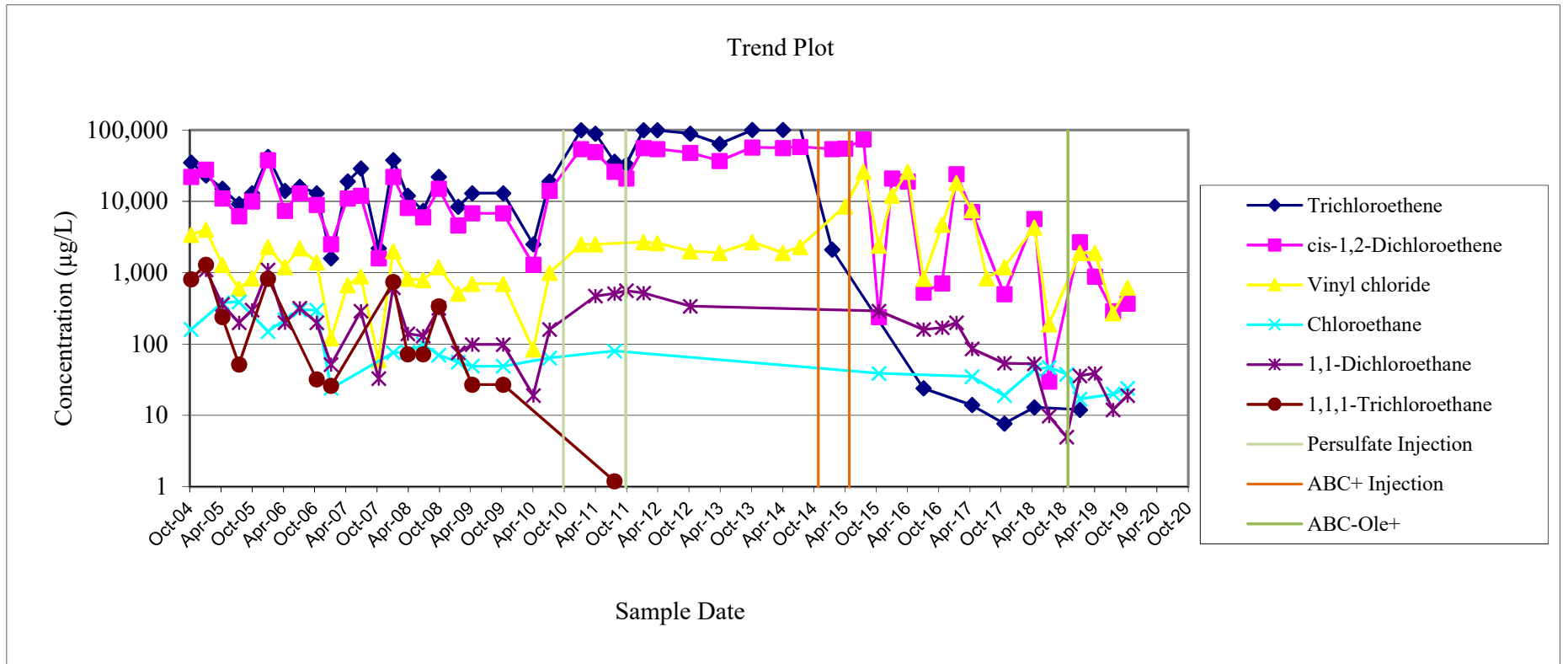


MONITORING WELL MW-8R
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
10/13/2004	35,000	22,000	3,400	160	< 5,000	810
1/7/2005	23,000	28,000	4,000	< 2,000	1,100	1,300
4/14/2005	15,000	11,000	1,300	380	360	240
7/21/2005	9,200	6,200	600	390	200	52
10/5/2005	13,000	10,000	830	< 1,000	300	<1,000
1/6/2006	42,000	38,000	2,300	150	1100	820
4/14/2006	14,000	7,400	1,200	220	200	< 1,000
7/10/2006	16,000	13,000	2,200	300	320	< 1,000
10/18/2006	13,000	8,900	1,400	300	200	32
1/10/2007	1,600	2,500	120	24	52	26
4/17/2007	19,000	11,000	670	< 1,000	< 1,000	< 1,000
7/3/2007	29,000	12,000	890	< 1,000	290	< 1,000
10/15/2007	2,200	1,600	60	< 200	33	< 200
1/8/2008	38,000	22,000	2,000	76	620	740
4/3/2008	12,000	8,100	820	77	140	72
7/2/2008	7,400	6,000	790	100	130	72
10/2/2008	22,000	15,000	1,200	70	320	340
1/22/2009	8,400	4,600	510	56	76	<100
4/15/2009	13,000	6,800	700	49	99	27
10/13/2009	13,000	6,800	700	49	99	27
4/8/2010	2,500	1,300	84	<100	19	<100
7/12/2010	19,000	14,000	1,000	64	160	<100
1/12/2011	99,000	54,000	2,500	<2000	<2000	<2000
4/6/2011	89,000	49,000	2,500	<800	470	<800
7/26/2011	36,000	26,000	<800	80	510	1.2
10/4/2011	33,000	21,000	<400	<400	560	<400
1/13/2012	99,000	56,000	2,700	<800	520	<800
4/3/2012	99,000	54,000	2,600	<2000	<2000	<2000
10/12/2012	89,000	48,000	2,000	<800	340	<800
4/2/2013	64,000	37,000	1,900	<1000	<1000	<1000
10/10/2013	100,000	57,000	2,700	<1000	<1000	<1000
4/7/2014	100,000	56,000	1,900	<1000	<1000	<1000
7/17/2014	110,000	58,000	2,300	<1000	<1000	<1000
1/21/2015	2,100	54,000	<2000	<2000	<2000	<2000
4/6/2015	<2000	55,000	8,500	<2000	<2000	<2000
7/23/2015	<200	74,000	26,000	<200	<200	<200
10/21/2015	<25	240	2,400	39	290	<25
1/6/2016	<1,000	21,000	12,000	<1,000	<1,000	<1,000
4/6/2016	<1,000	19,000	26,000	<1,000	<1,000	<1,000
7/8/2016	24	530	820	<20	160	<20
10/25/2016	<100	710	4,700	<100	170	<100
1/17/2017	<100	24,000	18,000	<100	200	<100
4/18/2017	14	7,100	7,500	35	86	<50
7/13/2017	<400	<400	840	<400	<400	<400
10/24/2017	7.7	500	1,200	19	54	<10
4/18/2018	13	5,700	4,300	44	53	<20
7/13/2018	<10	30	190	47	9.8	<10
10/24/2018	<10	<10	<10	38	5.0	<10
1/10/2019	12	2,700	1,900	17	36	<10
4/8/2019	<40	880	1,900	<40	39	<40
7/22/2019	<8	290	270	20	12	<8
10/15/2019	<10	370	620	24	19.0	<10

Note well was not accessible during the January 2018 sampling event.

MONITORING WELL MW-8R
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York



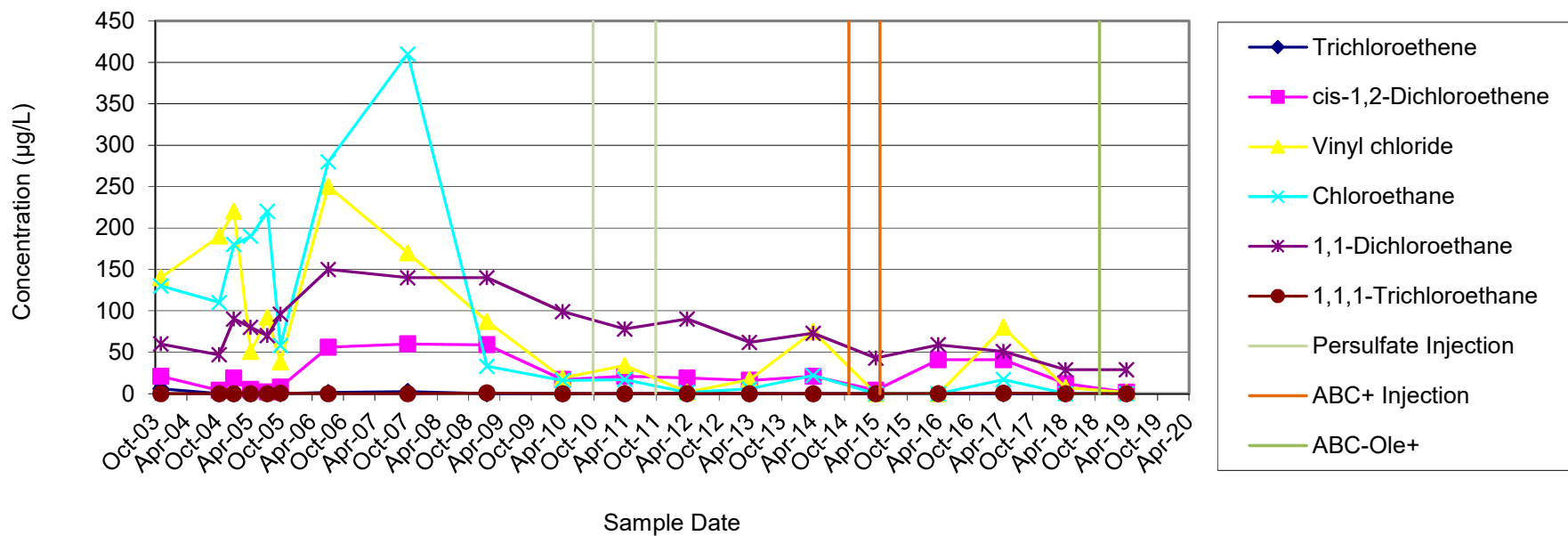
Note: LNAPL was present in MW-4 during the October 2004 and January 2005 groundwater sampling events.

MONITORING WELL MW-9
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
11/7/2003	6	21	140	130	60	< 10
10/13/2004	< 10	4	190	110	47	< 10
1/6/2005	< 10	19	220	180	90	< 10
4/14/2005	< 10	5	51	190	80	< 10
7/21/2005	< 5	2	92	220	70	< 5
10/5/2005	< 5	8	38	58	96	0.68
7/10/2006	1.3	56	250	280	150	< 5
10/17/2007	2.6	60	170	410	140	< 25
1/21/2009	<5	59	87	33	140	0.81
4/7/2010	<5	17	19	16	99	< 5
4/4/2011	<1	21	34	17	78	<1
4/2/2012	<1	19	1.8	1.5	90	<1
4/1/2013	<1	16	17	5.9	62	<1
4/7/2014	<1	21	75	22	73	<1
4/7/2015	<1	4.1	<1	<1	43	<1
4/5/2016	<1	41	<1	<1	59	<1
4/20/2017	<1	41	80	17	51	0.6
4/17/2018	<1	12	7.2	<1	29	<1
4/8/2019	<1	1.6	1.6	<1	29	<1

MONITORING WELL MW-9
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Trend Plot



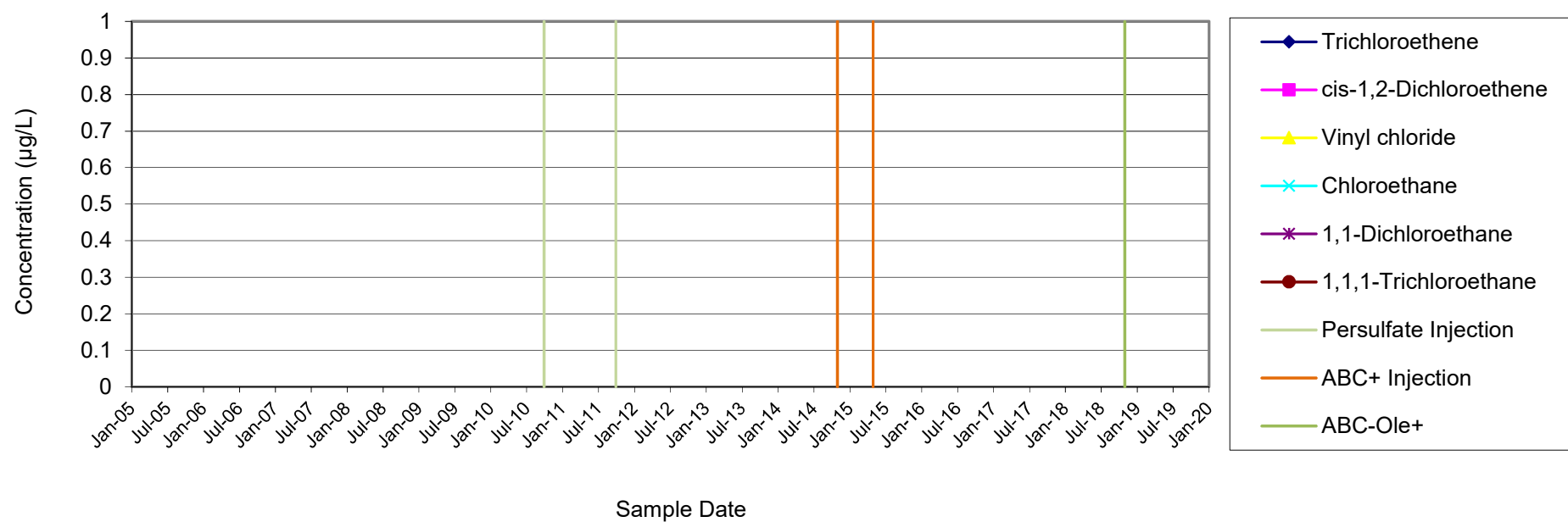
MONITORING WELL MW-10
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/14/2005	< 10	< 10	< 10	< 10	< 10	<10
1/5/2006	< 5	< 5	< 5	< 5	< 5	< 5
4/14/2006	< 5	< 5	< 5	< 5	< 5	< 5
7/10/2006	< 5	< 5	< 5	< 5	< 5	< 5
10/18/2006	< 5	< 5	< 5	< 5	< 5	< 5
1/9/2007	< 5	< 5	< 5	< 5	< 5	< 5
4/16/2007	< 5	< 5	< 5	< 5	< 5	< 5
7/2/2007	< 5	< 5	< 5	< 5	< 5	< 5
10/17/2007	< 5	< 5	< 5	< 5	< 5	< 5
1/9/2008	< 5	< 5	< 5	< 5	< 5	< 5
4/3/2008	< 5	< 5	< 5	< 5	< 5	< 5
7/1/2008	< 5	< 5	< 5	< 5	< 5	< 5
10/1/2008	< 5	< 5	< 5	< 5	< 5	< 5
1/20/2008	< 5	< 5	< 5	< 5	< 5	< 5
4/15/2009	< 5	< 5	< 5	< 5	< 5	< 5
7/21/2009	< 5	< 5	< 5	< 5	< 5	< 5
10/13/2009	< 5	< 5	< 5	< 5	< 5	< 5
1/18/2010	< 5	< 5	< 5	< 5	< 5	< 5
4/7/2010	< 5	< 5	< 5	< 5	< 5	< 5
7/13/2010	< 5	< 5	< 5	< 5	< 5	< 5
10/11/2010	< 5	< 5	< 5	< 5	< 5	< 5
1/12/2011	<1	<1	<1	<1	<1	<1
4/4/2011	<1	<1	<1	<1	<1	<1
7/26/2011	<1	<1	<1	<1	<1	<1
10/3/2011	<1	<1	<1	<1	<1	<1
1/12/2012	<1	<1	<1	<1	<1	<1
4/2/2012	<1	<1	<1	<1	<1	<1
7/5/2012	<1	<1	<1	<1	<1	<1
10/11/2012	<1	<1	<1	<1	<1	<1
4/1/2013	<1	<1	<1	<1	<1	<1
7/1/2013	<1	<1	<1	<1	<1	<1
10/10/2013	<1	<1	<1	<1	<1	<1
1/22/2014	<1	<1	<1	<1	<1	<1
4/7/2014	<1	<1	<1	<1	<1	<1
7/17/2014	<1	<1	<1	<1	<1	<1
10/14/2014	<1	<1	<1	<1	<1	<1
1/20/2015	<1	<1	<1	<1	<1	<1
4/6/2015	<1	<1	<1	<1	<1	<1
7/23/2015	<1	<1	<1	<1	<1	<1
10/19/2015	<1	<1	<1	<1	<1	<1
1/6/2016	<1	<1	<1	<1	<1	<1
4/4/2016	<1	<1	<1	<1	<1	<1
7/7/2016	<1	<1	<1	<1	<1	<1
10/24/2016	<1	<1	<1	<1	<1	<1
1/17/2017	<1	<1	<1	<1	<1	<1
4/19/2017	<1	<1	<1	<1	<1	<1
7/12/2017	<1	<1	<1	<1	<1	<1
10/20/2017	<1	<1	<1	<1	<1	<1
1/8/2018	<1	<1	<1	<1	<1	<1
4/17/2018	<1	<1	<1	<1	<1	<1
7/13/2018	<1	<1	<1	<1	<1	<1

Note well was decommissioned following the July 2018 sampling event.

MONITORING WELL MW-10
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Trend Plot

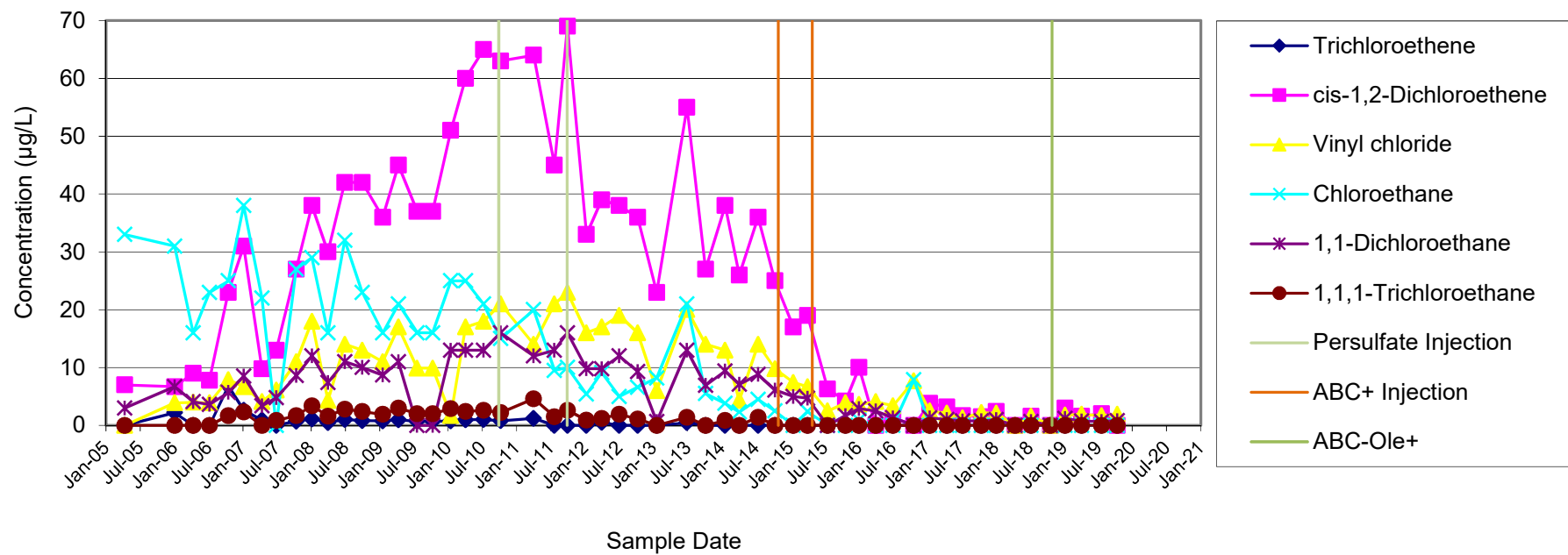


MONITORING WELL MW-11
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/14/2005	< 10	7	< 10	33	3	< 10
1/5/2006	2.2	6.7	3.9	31	6.7	<20
4/14/2006	< 20	9	4	16	4.1	< 20
7/10/2006	< 20	7.8	3.9	23	3.6	< 20
10/19/2006	6.8	23	7.9	25	5.7	1.7
1/9/2007	2.6	31	6.7	38	8.5	2.3
4/16/2007	0.89	9.8	4.1	22	3.4	<5
7/2/2007	< 5	13	6.1	< 5	4.8	0.84
10/16/2007	0.71	27	11	27	8.6	1.7
1/8/2008	1.1	38	18	29	12	3.4
4/2/2008	0.49	30	4.3	16	7.4	1.6
7/1/2008	1	42	14	32	11	2.8
10/2/2008	0.81	42	13	23	10	2.4
1/20/2009	0.77	36	11	16	8.7	1.9
4/14/2009	0.95	45	17	21	11	3
7/22/2009	0.69	37	9.9	16	<5	2
10/13/2009	0.69	37	9.9	16	<5	2
1/18/2010	0.77	51	1.7	25	13	2.9
4/7/2010	0.95	60	17	25	13	2.4
7/12/2010	1	65	18	21	13	2.6
10/11/2010	0.8	63	21	15	16	2.2
4/5/2011	1.2	64	14	20	12	4.6
7/25/2011	<1	45	21	9.5	13	1.5
10/3/2011	<1	69	23	10	16	2.6
1/12/2012	<1	33	16	5.4	9.8	0.88
4/2/2012	0.51	39	17	9.1	9.8	1.2
7/5/2012	<1	38	19	5	12	1.9
10/11/2012	<1	36	16	6.6	9.3	1.1
1/21/2013	<1	23	6	8.2	0.64	<1
7/1/2013	0.46	55	20	21	13	1.4
10/9/2013	<1	27	14	5.5	6.9	<1
1/21/2014	<1	38	13	3.8	9.4	0.85
4/7/2014	<1	26	4.3	2.3	7.1	<1
7/16/2014	<1	36	14	4.5	8.8	1.4
10/14/2014	<1	25	9.8	2.5	6.1	<1
1/20/2015	<5	17	7.4	<5	5.0	<5
4/6/2015	<2	19	6.7	2.4	4.7	<2
7/22/2015	<1	6.3	2.5	<1	<1	<1
10/26/2015	<1	4.2	3.9	<1	1.7	<1
1/6/2016	<1	10	3.6	0.89	2.9	<1
4/4/2016	<1	<1	4.1	<1	2.5	<1
7/5/2016	<1	1.3	3.4	<1	1.3	<1
10/24/2016	<1	<1	7.7	7.9	<1	<1
1/17/2017	<1	3.8	2.5	<1	1.3	<1
4/18/2017	<1	3.2	2.1	<1	1	<1
7/12/2017	<1	1.7	1.3	<1	0.78	<1
10/20/2017	<1	1.5	2.2	<1	0.79	<1
1/8/2018	<1	2.4	2.1	<1	0.99	<1
4/18/2018	<2	<2	<2	<2	<2	<2
7/12/2018	<1	1.6	1.6	<1	0.68	<1
10/24/2018	<4	<4	<4	<4	<4	<4
1/9/2019	<1	3.0	1.8	<1	1.2	<1
4/8/2019	<1	1.6	1.9	<1	0.75	<1
7/23/2019	<1	2.0	1.7	<1	0.68	<1
10/15/2019	<1	<1	1.9	<1	0.82	<1

MONITORING WELL MW-11
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Trend Plot



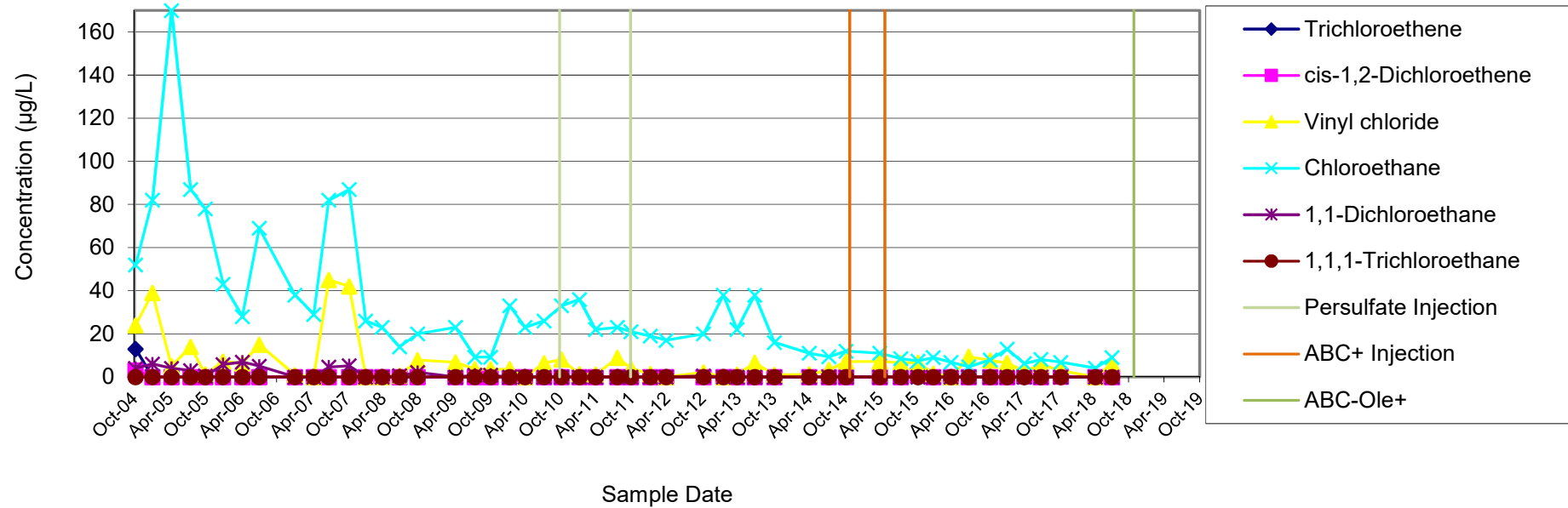
MONITORING WELL MW-12
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
10/12/2004	13	3	24	52	4	< 10
1/6/2005	< 10	< 10	39	82	6	< 10
4/14/2005	< 10	< 10	5	170	4	< 10
7/21/2005	< 5	< 5	14	87	3	<
10/5/2005	< 5	< 5	1.2	78	0.43	< 5
1/5/2006	< 25	< 25	7.2	43	5.8	< 25
4/14/2006	< 25	< 25	6.3	28	6.9	< 25
7/10/2006	< 25	< 25	15	69	5	< 25
1/9/2007	< 5	< 5	0.83	38	< 5	< 5
4/16/2007	< 20	< 20	< 20	29	< 20	< 20
7/2/2007	< 5	< 5	45	82	4.6	< 5
10/15/2007	< 5	< 5	42	87	5.2	< 5
1/8/2008	< 5	< 5	< 5	26	< 5	< 5
4/2/2008	< 5	< 5	< 5	23	< 5	< 5
7/1/2008	< 5	< 5	0.64	14	0.55	< 5
10/1/2008	< 5	< 5	7.8	20	2.1	< 5
4/14/2009	<5	<5	6.8	23	<5	<5
7/22/2009	<5	<5	3.6	9.2	0.79	<5
10/12/2009	<5	<5	3.6	9.2	0.79	<5
1/18/2010	<5	<5	3.6	33	<5	<5
4/7/2010	<5	<5	< 5	23	<5	<5
7/13/2010	<5	<5	6.4	26	<5	<5
10/11/2010	<5	<5	8.1	33	<5	<5
1/12/2011	<1	<1	1.3	36	<1	<1
4/4/2011	<1	<1	1.1	22	<1	<1
7/26/2011	<1	<1	8.9	23	<1	<1
10/4/2011	<1	<1	3.9	21	<1	<1
1/12/2012	<1	<1	1.4	19	<1	<1
4/2/2012	<1	<1	<1	17	<1	<1
10/11/2012	<1	<1	2.1	20	0.49	<1
1/21/2013	<1	<1	<1	38	<1	<1
4/1/2013	<1	<1	1.1	22	<1	<1
7/1/2013	<1	<1	6.6	38	<1	<1
10/10/2013	<1	<1	0.95	16	<1	<1
4/7/2014	<1	<1	1.2	11	<1	<1
7/17/2014	<1	<1	3.3	9.4	<1	<1
10/14/2014	<1	<1	7.1	12	<1	<1
4/6/2015	<1	<1	7.2	11	<1	<1
7/23/2015	<1	<1	6.6	8.5	<1	<1
10/19/2015	<1	0.88	6.7	7.4	<1	<1
1/6/2016	<1	<1	1.5	9	<1	<1
4/5/2016	<5	<5	< 5	6.8	<5	<5
7/6/2016	<5	<5	9.4	4.7	<5	<5
10/24/2016	<1	<1	7.7	7.9	<1	<1
1/19/2017	<1	<1	6.5	13	<1	<1
4/18/2017	<1	0.36	2.6	6.2	<1	<1
7/12/2017	<1	<1	5.8	8.1	<1	<1
10/23/2017	<1	0.24	2.9	6.8	<1	<1
4/18/2018	<4	<4	<4	4.1	<4	<4
7/13/2018	<5	<5	6.1	9.1	<5	<5

Note well was decommissioned following the July 2018 sampling event.

MONITORING WELL MW-12
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Trend Plot



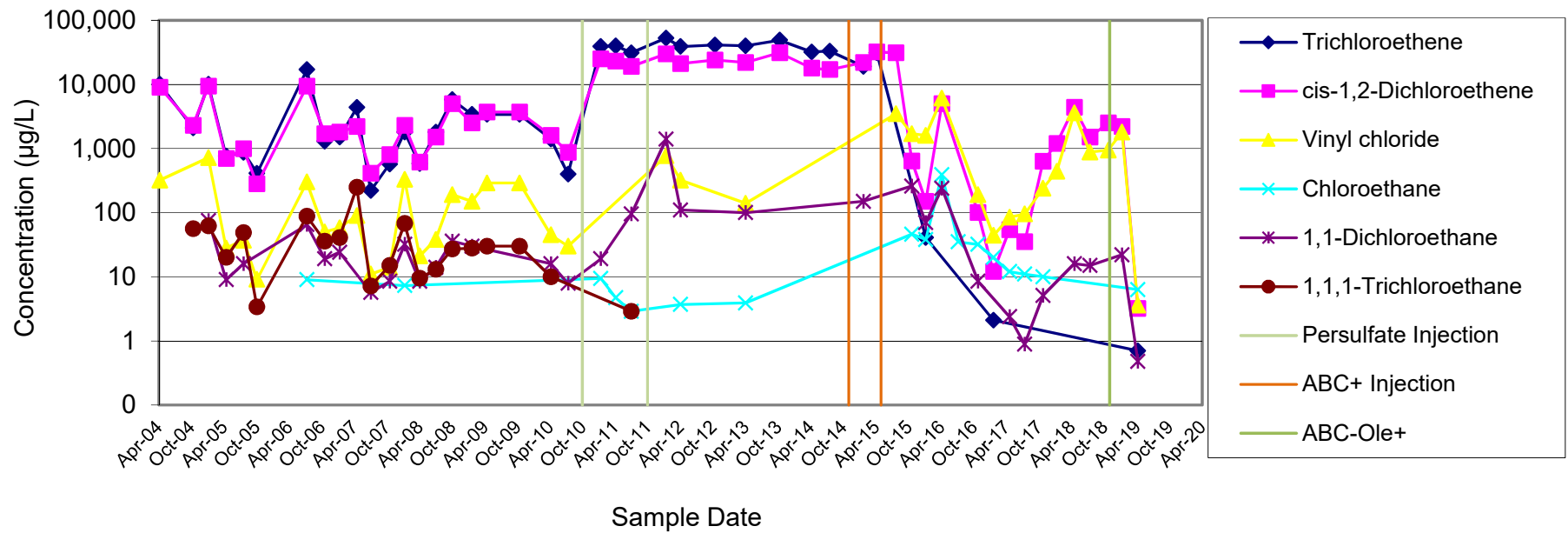
PIEZOMETER MW-13S
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/8/2004	10,000	9,000	320	< 100	< 100	< 100
10/12/2004	2,100	2,300	< 200	< 200	< 200	56
1/6/2005	10,000	9,400	720	< 200	75	62
4/15/2005	760	700	28	< 50	9	20
7/20/2005	870	990	37	< 40	16	49
10/4/2005	410	280	9.1	< 40	< 40	3.4
7/10/2006	17,000	9,400	300	9	65	88
10/19/2006	1,300	1,700	50	<100	19	36
1/10/2007	1,500	1,800	58	<100	24	41
4/17/2007	4,400	2,200	90	< 250	< 250	250
7/3/2007	220	410	11	< 25	5.7	7.2
10/18/2007	570	800	14	< 25	8.5	15
1/9/2008	1800	2300	330	7.3	32	68
4/3/2008	580	610	21	<50	8.5	9.5
7/2/2008	1,800	1,500	38	<120	14	13
10/2/2008	5,800	5,000	190	<120	36	27
1/20/2009	3,400	2,500	150	<10	30	28
4/15/2009	3,400	3,700	290	<40	<40	30
10/13/2009	3,400	3,700	290	<40	<40	30
4/7/2010	1,400	1,600	45	<50	16	10
7/13/2010	400	870	30	<50	7.9	<50
1/12/2011	39,000	25,000	<500	9.4	19	<1
4/6/2011	40,000	23,000	<800	4.7	<800	<800
7/2/2011	31,000	19,000	<800	2.9	95	2.9
1/13/2012	53,000	30,000	770	<800	1400	<800
4/3/2012	39,000	21,000	320	3.7	110	<1
10/12/2012	41,000	24,000	<800	<800	<800	<800
4/2/2013	40,000	22,000	140	3.9	100	<1
10/10/2013	49,000	31,000	<1	<1	<1	<1
4/7/2014	32,000	18,000	<500	<500	<500	<500
7/17/2014	33,000	17,000	<500	<500	<500	<500
1/21/2015	19,000	22,000	<500	<500	150	<500
4/7/2015	31,000	32,000	<500	<500	<500	<500
7/23/2015	<500	31,000	3,500	<500	<500	<500
10/20/2015	<10	640	1,700	46	260	<10
1/6/2016	41	150	1,600	38	70	<25
4/5/2016	<100	5,000	6,100	390	240	<100
7/6/2016	<4	<4	<4	35	<4	<4
10/25/2016	<2	100	190	32	8.5	<2
1/19/2017	2.1	12	44	20	<2	<2
4/19/2017	<1	54	85	12	2.4	<1
7/13/2017	<2	35	95	11	0.89	<2
10/24/2017	<5	630	240	10	5.1	<5
1/9/2018	<40	1,200	440	<40	<40	<40
4/17/2018	<40	4,400	3,600	<40	16	<40
7/13/2018	<40	1,500	880	<40	15	<40
10/24/2018	<40	2,500	940	<40	<40	<40
1/9/2019	<40	2,200	1,800	<40	22	<40
4/8/2019	0.7	3.2	4	6.3	0.48	<1

Note well was dry during the July and October 2019 sampling events.

MONITORING WELL MW-13S
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Trend Plot

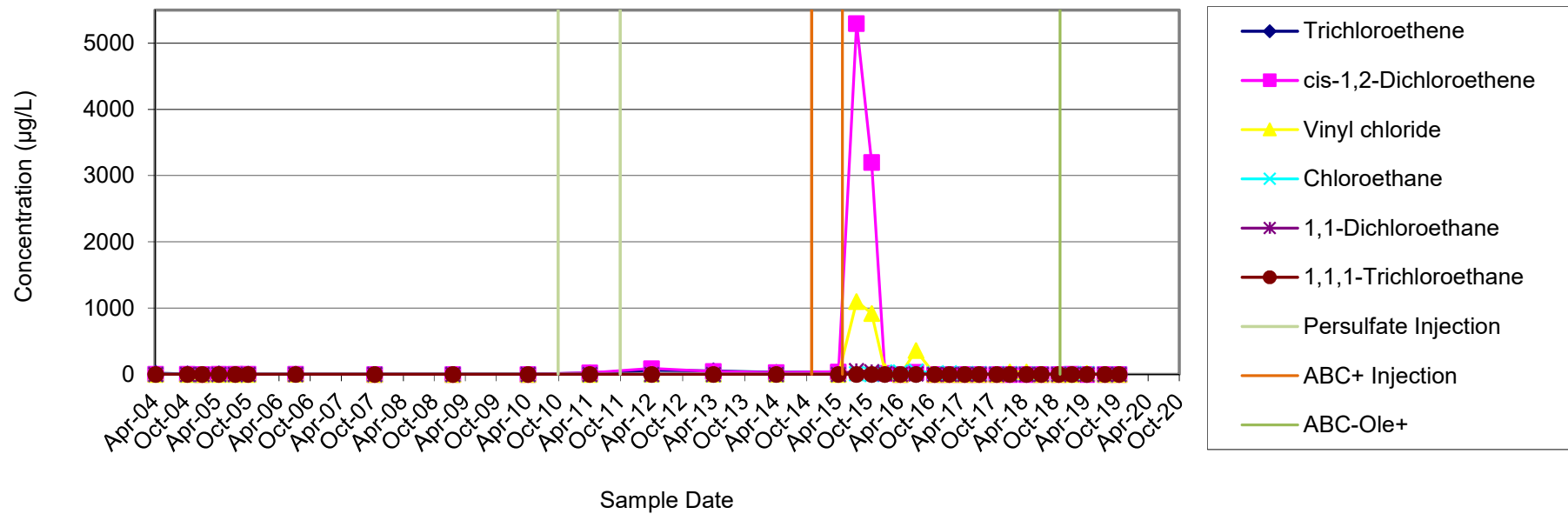


PIEZOMETER MW-13D
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/8/2004	17	2	< 10	< 10	< 10	< 10
10/12/2004	7	2	< 10	< 10	< 10	< 10
1/6/2005	< 10	< 10	< 10	< 10	< 10	< 10
4/15/2005	8	4	< 10	< 10	< 10	< 10
7/20/2005	1	2	< 5	< 5	< 5	< 5
10/4/2005	1.4	1.5	< 5	< 5	< 5	< 5
7/10/2006	2	1.6	2.6	< 5	< 5	< 5
10/18/2007	<5	0.55	1.1	< 5	< 5	< 5
1/20/2009	<5	<5	<5	<5	<5	<5
4/7/2010	<5	<5	<5	<5	<5	<5
4/6/2011	22	23	<1	<1	<1	<1
4/3/2012	62	89	2.3	<1	<1	<1
4/1/2013	53	44	2.9	<1	<1	<1
4/7/2014	30	28	1.9	<1	<1	<1
4/7/2015	40	37	<1	<1	<1	<1
7/23/2015	2	5300	1100	11	56	<1
10/20/2015	<100	3200	920	<100	42	<100
1/6/2016	<10	15	47	38	12	<10
4/6/2016	<10	<10	<10	36	<10	<10
7/6/2016	<10	34	360	51	7.8	<10
10/25/2016	0.47	1	<1	12	<1	<1
1/19/2017	<1	<1	<1	25	<1	<1
4/19/2017	<1	0.87	<1	9	<1	<1
7/13/2017	<1	<1	<1	13	<1	<1
10/24/2017	<1	<1	<1	6.9	<1	<1
1/9/2018	<1	1.1	39	9.9	0.73	<1
4/18/2018	<1	1	39	6.5	<1	<1
7/13/2018	<1	<1	<1	5.5	<1	<1
10/24/2018	<1	<1	<1	4.2	<1	<1
1/10/2019	<1	1.6	1.2	7.4	<1	<1
4/8/2019	<1	<1	18	9.8	<1	<1
7/24/2019	<1	<1	<1	0.73	<1	<1
10/15/2019	<1	<1	<1	4.5	<1	<1

PIEZOMETER MW-13D
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Trend Plot



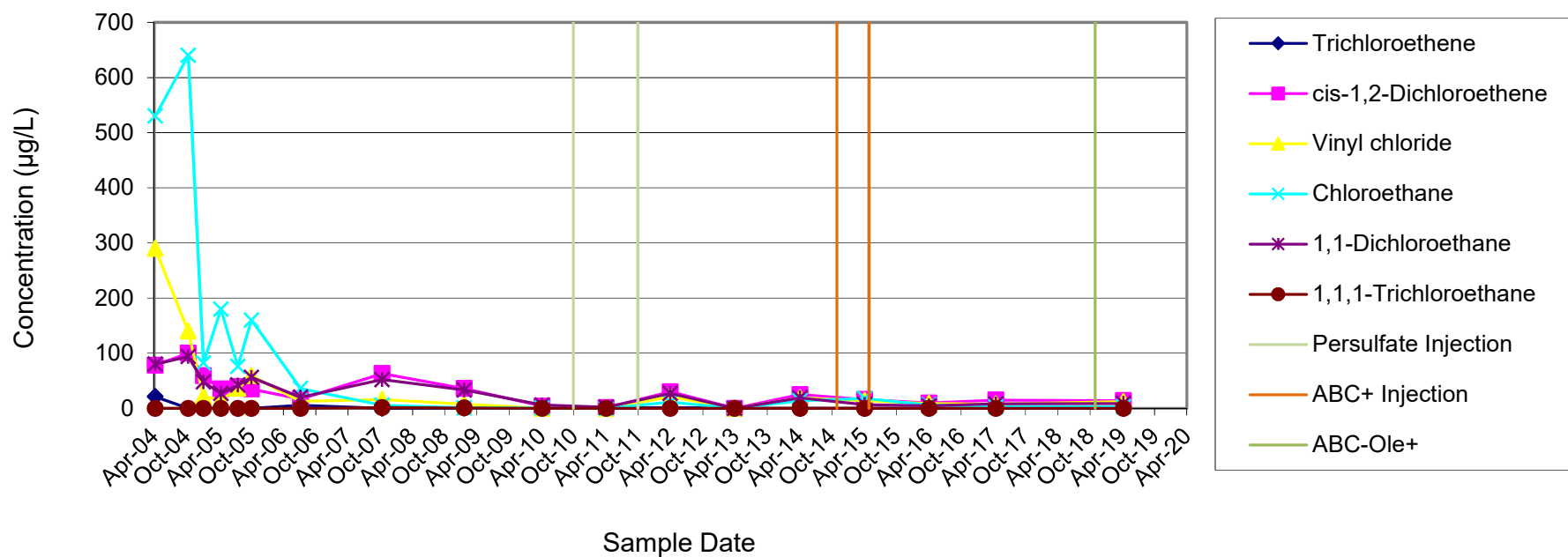
PIEZOMETER MW-14S
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/8/2004	21	78	290	530	80	< 20
10/12/2004	< 10	100	140	640	94	< 10
1/6/2005	< 10	59	22	82	48	< 10
4/15/2005	< 10	35	15	180	27	< 10
7/20/2005	< 5	39	36	76	42	< 5
10/5/2005	< 5	35	59	160	56	< 5
7/10/2006	5.7	17	13	36	20	< 25
10/15/2007	< 5	63	16	5.7	52	1.3
1/21/2009	0.38	36	7.9	0.87	33	0.63
4/8/2010	< 5	4	< 5	0.62	5.9	< 5
4/5/2011	< 1	1.1	< 1	< 1	1.9	< 1
4/2/2012	1.3	30	21	11	27	< 1
4/1/2013	< 1	< 1	< 1	< 1	< 1	< 1
4/7/2014	< 1	25	19	14	19	< 1
4/7/2015	< 1	16	14	18	6.8	< 1
4/5/2016	< 1	9.6	8.9	6.3	4.4	< 1
4/18/2017	< 1	15	7.8	2.8	8.1	< 1
4/10/2019	< 1	14	12	2.7	8.9	< 1

Well was flooded and not sampled in April 2018.

PIEZOMETER MW-14S
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Trend Plot



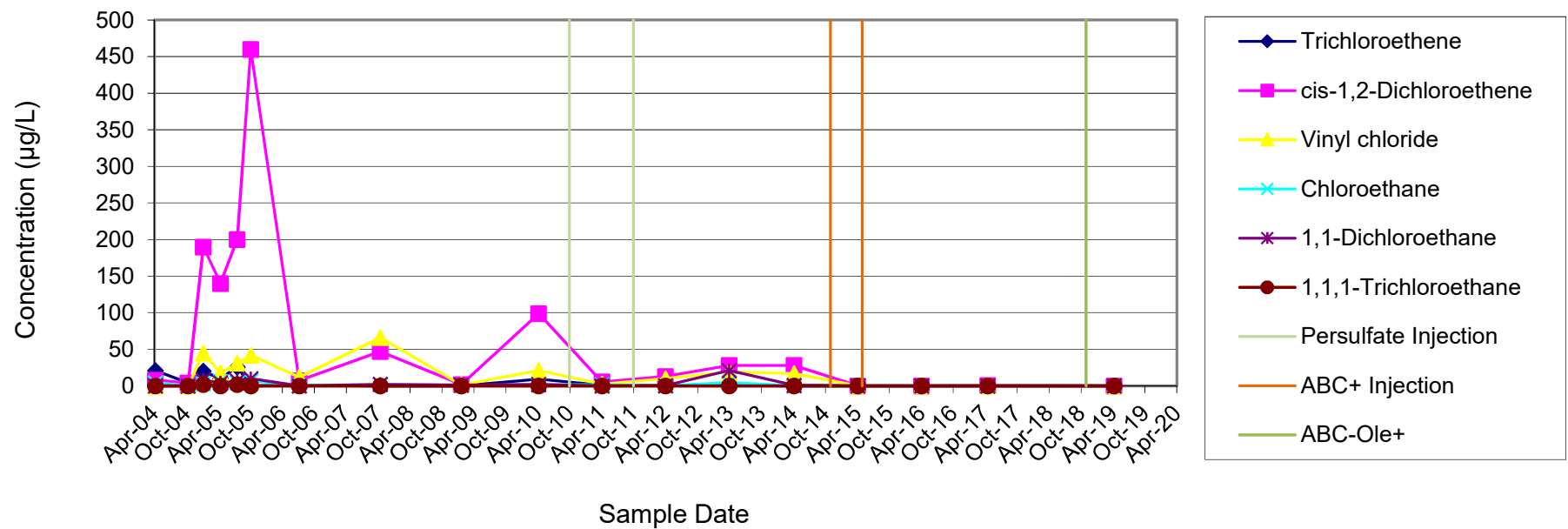
PIEZOMETER MW-14D
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/8/2004	21	8	< 10	4	< 10	< 10
10/12/2004	4	4	< 10	< 10	< 10	< 10
1/6/2005	20	190	45	3	8	2
4/15/2005	10	140	18	6	4	< 10
7/20/2005	26	200	31	4	7	2
10/5/2005	< 10	460	42	7.2	9.9	<10
7/10/2006	0.96	7.2	12	0.82	< 5	< 5
10/15/2007	< 5	47	66	1.8	2.2	< 5
1/21/2009	<5	2	1.4	0.91	1.3	<5
4/8/2010	9.4	99	21	1.5	2	<5
4/5/2011	0.97	5.6	2.6	1.5	<1	<1
4/2/2012	0.64	13	9.9	<1	0.44	<1
4/1/2013	0.99	28	19	4.6	21	<1
4/7/2014	<1	28	17	<1	0.82	<1
4/7/2015	<1	<1	<1	<1	<1	<1
4/5/2016	<1	<1	<1	<1	<1	<1
4/18/2017	<1	0.65	<1	<1	<1	<1
4/10/2019	<1	<1	<1	<1	<1	<1

Well was flooded and not sampled in April 2018.

PIEZOMETER MW-14D
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Trend Plot

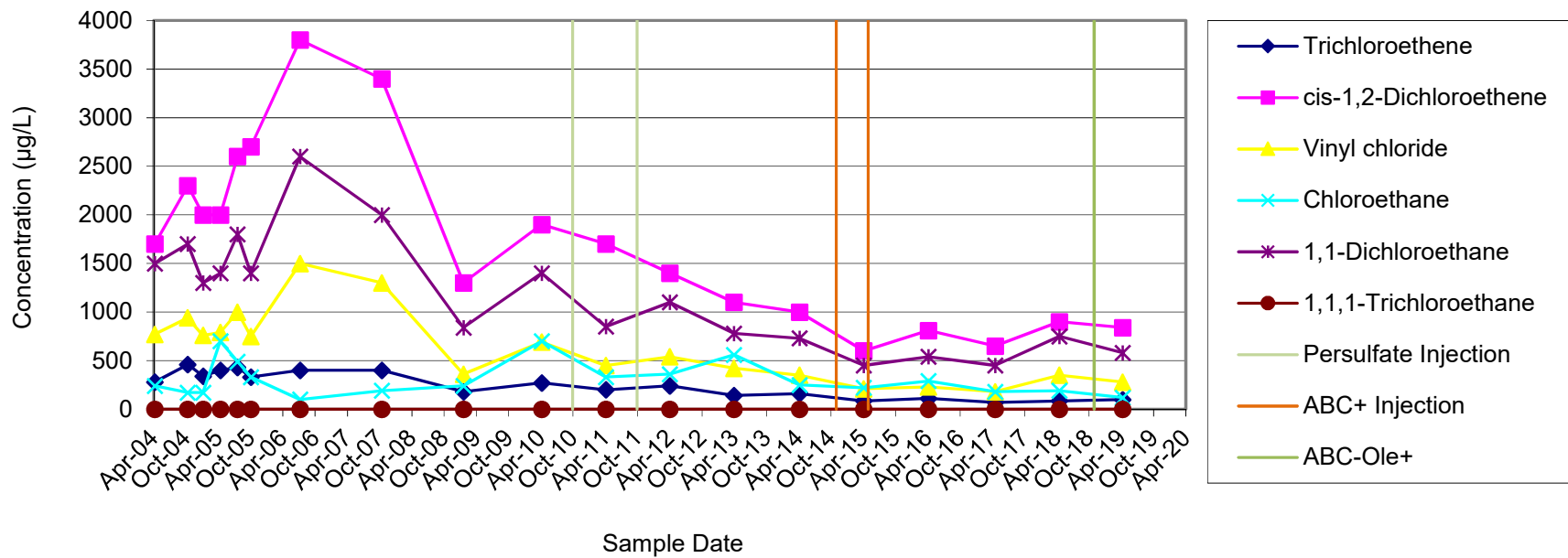


PIEZOMETER MW-15S
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/8/2004	280	1,700	770	240	1,500	< 250
10/12/2004	460	2,300	940	170	1,700	< 250
1/7/2005	340	2,000	760	170	1,300	< 250
4/15/2005	400	2,000	790	700	1,400	< 200
7/21/2005	430	2,600	1,000	490	1,800	< 120
10/5/2005	330	2,700	750	330	1,400	<100
7/10/2006	400	3,800	1,500	100	2,600	< 25
10/16/2007	400	3400	1300	190	2000	< 200
1/21/2009	180	1300	360	240	840	<5
4/8/2010	270	1900	690	700	1400	<10
4/7/2011	200	1700	450	330	850	<1
4/3/2012	240	1400	540	360	1100	<1
4/1/2013	140	1100	420	560	780	<20
4/7/2014	160	1000	350	250	730	<20
4/6/2015	85	600	210	220	450	<20
4/6/2016	110	810	230	290	540	<20
4/19/2017	70	650	180	180	450	<5
4/18/2018	85	900	350	190	750	<20
4/10/2019	98	840	280	120	580	<20

PIEZOMETER MW-15S
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Trend Plot

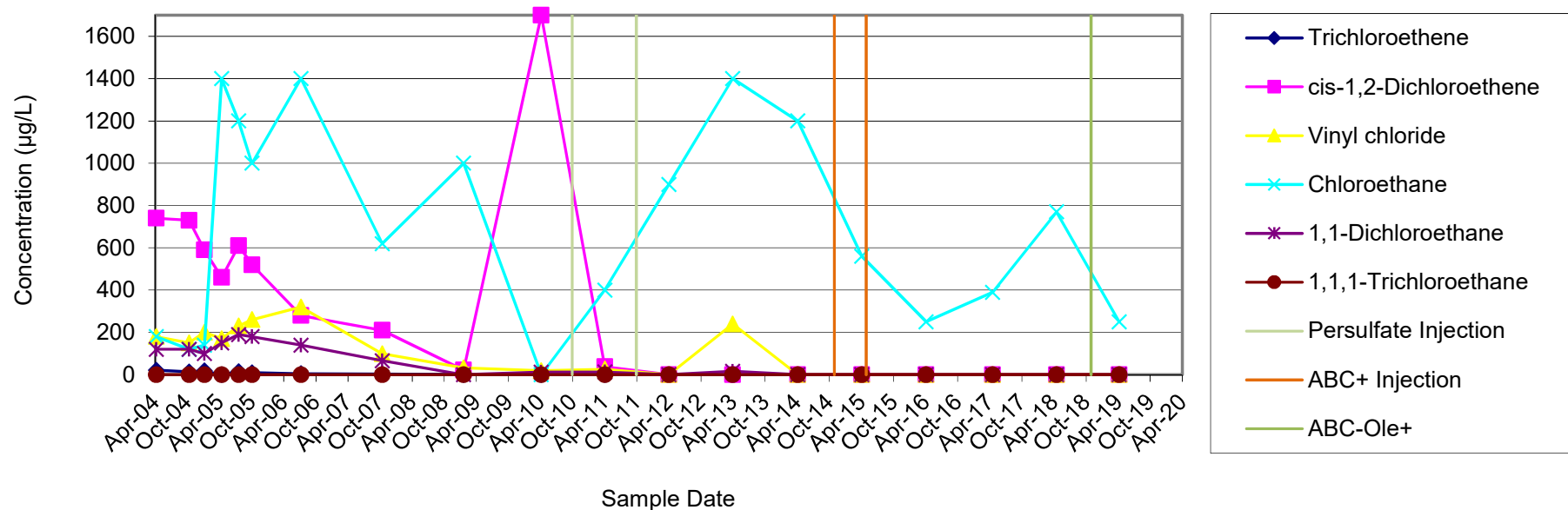


PIEZOMETER MW-15D
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/8/2004	21	740	180	180	120	< 10
10/12/2004	14	730	150	120	120	< 50
1/7/2005	18	590	200	140	100	< 50
4/15/2005	< 50	460	170	1,400	150	< 50
7/21/2005	15	610	230	1,200	190	< 25
10/5/2005	10	520	260	1,000	180	<50
7/10/2006	4.9	280	320	1,400	140	< 5
10/16/2007	3.6	210	99	620	66	< 5
1/21/2009	<25	22	32	1000	<25	<25
4/8/2010	<5	1700	19	<5	12	<5
4/5/2011	<8	38	26	400	13	<8
4/3/2012	<10	<10	<10	900	<10	<10
4/1/2013	<8	<8	240	1400	16	<8
4/7/2014	<20	<20	<20	1200	<20	<20
4/6/2015	<20	<20	<20	560	<20	<20
4/6/2016	<5	<5	<5	250	<5	<5
4/19/2017	<1	<1	<1	390	0.35	<1
4/19/2018	<5	<5	<5	770	<5	<5
4/10/2019	<8	<8	<8	250	<8	<8

PIEZOMETER MW-15D
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Trend Plot

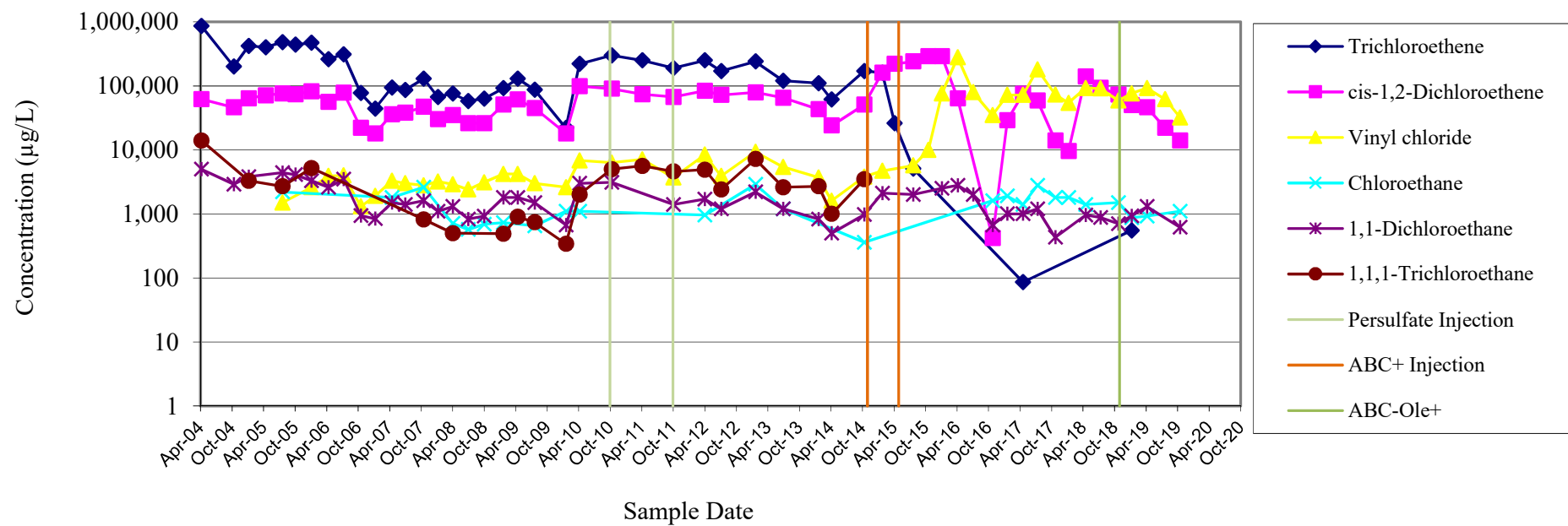


PIEZOMETER MW-16S
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/8/2004	860,000	62,000	< 20,000	< 20,000	5,000	14,000
10/12/2004	200,000	46,000	< 10,000	< 10,000	2,900	< 10,000
1/7/2005	420,000	64,000	< 10,000	< 10,000	3,800	3,300
4/15/2005	400,000	71,000	< 25,000	< 25,000	< 25,000	< 25,000
7/21/2005	480,000	76,000	1,500	2,200	4,400	2,700
10/5/2005	440,000	74,000	< 25,000	< 25,000	4,100	< 25,000
1/6/2006	470,000	82,000	2,600	< 20,000	3,300	5,200
4/14/2006	260,000	56,000	3,900	< 20,000	2,600	< 20,000
7/10/2006	310,000	78,000	4,000	< 20,000	3,500	< 20,000
10/19/2006	77,000	22,000	1,300	< 5,000	940	< 5,000
1/10/2007	44,000	18,000	1,900	< 2,500	840	< 2,500
4/17/2007	94,000	36,000	3,300	1,800	1,500	< 5,000
7/3/2007	86,000	38,000	3,000	< 5,000	1,400	< 5,000
10/18/2007	130,000	47,000	2800	2600	1600	820
1/8/2008	67,000	30,000	3200	< 5000	1100	< 5000
4/3/2008	76,000	35,000	2,900	710	1,300	500
7/2/2008	58,000	26,000	2,400	570	830	<5000
10/2/2008	63,000	26,000	3,100	690	920	<5000
1/22/2009	92,000	51,000	4,200	730	1,800	490
4/15/2009	130,000	61,000	4,200	<2000	1,800	900
7/22/2009	87,000	45,000	3,000	650	1,500	740
1/19/2010	22,000	18,000	2,600	1,100	670	340
4/8/2010	220,000	99,000	6,800	1,100	3,000	2,000
10/11/2010	300,000	90,000	6,300	<20,000	3,100	5,000
4/7/2011	250,000	74,000	7,100	<4,000	<4,000	5,600
10/4/2011	190,000	67,000	3,700	<800	1,400	4,600
4/3/2012	250,000	84,000	8,400	960	1,700	4,900
7/6/2012	170,000	72,000	3,900	<2000	1,200	2,400
1/21/2013	240,000	79,000	9,300	2,900	2,200	7,200
7/1/2013	120,000	65,000	5,400	1,200	1,200	2,600
1/22/2014	110,000	43,000	3,700	<2,000	830	2,700
4/7/2014	61,000	24,000	1,600	<1000	500	1,000
10/14/2014	170,000	51,000	3,800	360	980	3,500
1/26/2015	160,000	160,000	4,700	<4,000	2,100	<4,000
4/7/2015	26,000	220,000	<4,000	<4,000	<4,000	<4,000
7/24/2015	5,100	240,000	5,700	<4,000	2,000	<4,000
10/20/2015	<4,000	290,000	10,000	<4,000	<4,000	<4,000
1/6/2016	<4,000	290,000	76,000	<4,000	2,500	<4,000
4/7/2016	<4,000	64,000	280,000	<4,000	2,800	<4,000
7/5/2016	<2,000	<2,000	80,000	<2,000	2,000	<2,000
10/26/2016	<500	420	35,000	1,600	670	<500
1/19/2017	<500	29,000	72,000	1,900	1,000	<500
4/20/2017	86	75,000	72,000	1,400	1,000	<200
7/13/2017	<1,000	59,000	180,000	2,800	1,200	<200
10/24/2017	<500	14,000	73,000	1,800	430	<500
1/9/2018	<1,000	9,600	54,000	1,800	<1,000	<1,000
4/18/2018	<1,000	140,000	92,000	1,400	960	<1,000
7/13/2018	<1,000	93,000	91,000	<1,000	880	<1,000
10/25/2018	<1,000	73,000	59,000	1,500	700	<1,000
1/9/2019	550	50,000	76,000	870	930	<1,000
4/9/2019	<1,000	46,000	92,000	920	1,300	<1,000
7/23/2019	<2,500	22,000	62,000	<2,500	<2,500	<2,500
10/17/2019	<1,000	14,000	32,000	1,100	620	<1,000

MONITORING WELL MW-16S
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Trend Plot



PIEZOMETER MW-16D
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/8/2004	6,900	490	< 500	< 500	< 500	< 500
10/12/2004	12,000	1,000	< 500	< 500	91	< 500
1/6/2005	9	27	39	22	15	< 10
4/15/2005	32	36	17	100	10	< 10
7/21/2005	25	12	4	84	2	< 10
10/5/2005	1.3	16	10	41	5	<5
7/10/2006	6.1	27	21	1,000	9.7	< 5
10/18/2007	6	48	39	250	16	< 20
1/22/2009	52	92	39	90	21	1.9
4/8/2010	12	6.9	3.6	240	8.7	< 10
4/7/2011	22	59	33	59	27	1.2
4/3/2012	42	66	46	110	35	<1
4/1/2013	57	2900	1100	190	260	<1
4/7/2014	<25	1700	390	110	99	<25
4/7/2015	<25	650	380	170	94	<25
7/23/2015	<25	<25	41	340	56	<25
10/20/2015	<10	24	9.2	<10	15	<10
1/6/2016	<5	<5	9.2	140	2.9	<5
4/7/2016	<10	<10	50	370	<10	<10
7/5/2016	<10	<10	13	320	33	<10
10/26/2016	<10	31	13	310	16	<10
1/19/2017	<10	<10	23	290	<10	<10
4/20/2017	<1	24	27	350	37	<1
7/13/2017	<5	57	140	130	30	<5
10/24/2017	<1	9.6	24	98	6	<1
1/8/2018	<1	4.1	9.0	110	4.1	<1
4/18/2018	<1	1.5	15	52	0.78	<1
7/13/2018	<1	3.3	22	53	2.0	<1
10/25/2018	<1	2.3	17	38	1.2	<1
1/10/2019	1.9	37	20	150	10.0	<1
4/8/2019	<2	5	37	72	3.6	<2
7/22/2019	<1	2	6.5	39	2.1	<1
10/17/2019	<1	1.8	2.3	76	1.3	<1

PIEZOMETER MW-16D
HISTORICAL AND CURRENT SUMMARY OF CHLORINATED VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Trend Plot

